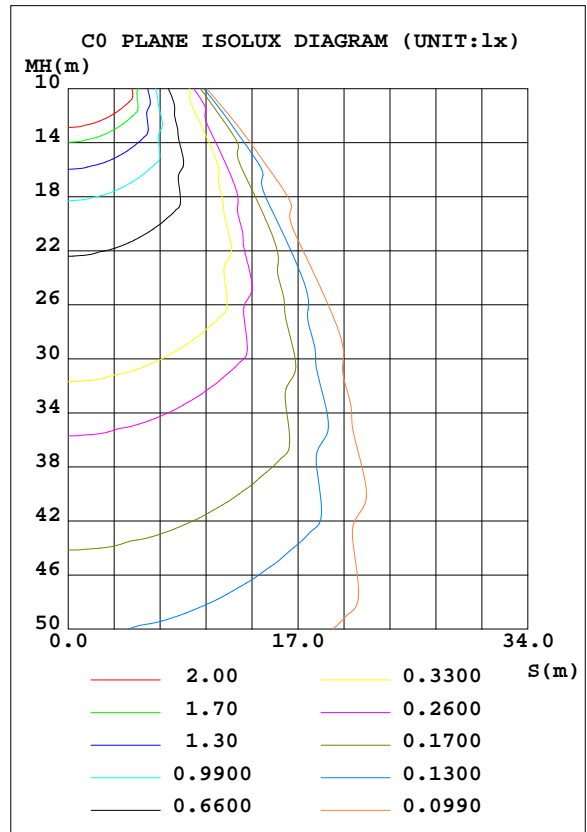
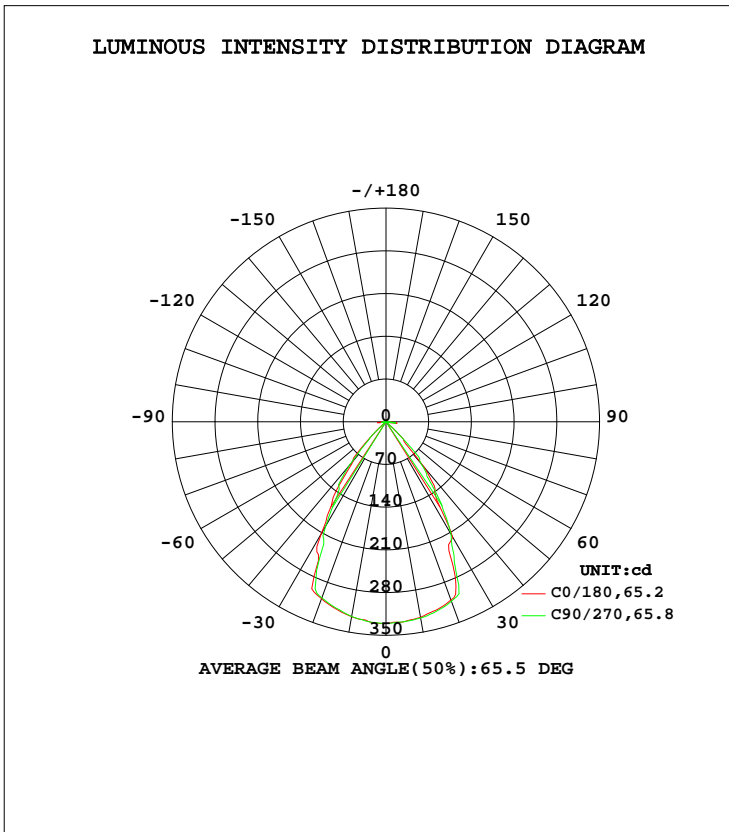


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz Lamp Flux:381.409x1 lm		
NAME: ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 41.06 lm/W			
MODEL	ASD-LCLR-1B-9BK 5000K	I _{max} (cd)	331.2	S/MH(C0/180)	0.96
NOMINAL POWER(W)	9W	LOR(%)	100.0	S/MH(C90/270)	0.98
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	381.41	η UP, DN(C0-180)	0.3,48.8
NOMINAL FLUX(lm)	381.409	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.3,50.6
LAMPS INSIDE	1	η up(%)	0.6	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	99.4	CIBSE SHR MAX	1.05



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	324.4	324.7	324.1	324.5	325.4	327.3	326.5	326.5	0- 10	31.30	31.30	8.21,8.21
20	308.5	306.9	307.2	308.6	311.0	313.0	313.0	312.3	10- 20	90.07	121.4	31.8,31.8
30	212.5	211.8	198.2	215.1	218.5	216.9	213.7	213.3	20- 30	121.7	243.0	63.7,63.7
40	83.97	86.74	93.47	95.07	98.58	92.92	88.86	98.26	30- 40	89.40	332.4	87.2,87.2
50	4.493	2.467	2.401	2.428	2.422	2.187	2.337	2.436	40- 50	29.89	362.3	95,95
60	2.032	2.208	2.179	2.203	2.110	1.959	2.090	2.045	50- 60	1.985	364.3	95.5,95.5
70	1.446	1.573	1.559	1.585	1.498	1.371	1.457	1.984	60- 70	1.886	366.2	96,96
80	8.213	10.25	6.298	10.44	13.22	12.25	9.861	8.558	70- 80	3.877	370.1	97,97
90	0.7079	0.5988	0.3408	0.7239	0.6955	0.5791	0.7861	2.560	80- 90	8.953	379.0	99.4,99.4
100	0	0.5778	0.6682	0.2342	0	0.0126	0.9329	0.0830	90-100	0.5910	379.6	99.5,99.5
110	0.4740	0.2826	0.2646	0.2923	0.3993	0.2413	0.5683	0.3458	100-110	0.4908	380.1	99.7,99.7
120	0.3042	0.1552	0.2070	0.1420	0.2686	0.0224	0.1882	0.0242	110-120	0.2308	380.3	99.7,99.7
130	0.3058	0.1714	0.1264	0.1785	0.2027	0.0597	0.0104	0.1428	120-130	0.1340	380.5	99.8,99.8
140	0.4753	0.3251	0.2577	0.3482	0.3517	0.1066	0.0338	0.3838	130-140	0.1557	380.6	99.8,99.8
150	1.244	0.9955	0.3818	1.288	0.9481	0.8693	0.0819	0.5667	140-150	0.3795	381.0	99.9,99.9
160	0.6884	0.5909	0.4919	0.5719	0.2974	0.2430	0.1756	0.2943	150-160	0.2466	381.3	100,100
170	0.5364	0.5119	0.4845	0.5141	0.2571	0.2479	0.2793	0.2182	160-170	0.1139	381.4	100,100
180	0.3596	0.3775	0.3780	0.3597	0.3590	0.3777	0.3776	0.3586	170-180	0.0353	381.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 356.23 lm

%lum = 93.4%
 %lamp = 93.4%

Conical surface Flux(120deg): 364.32 lm

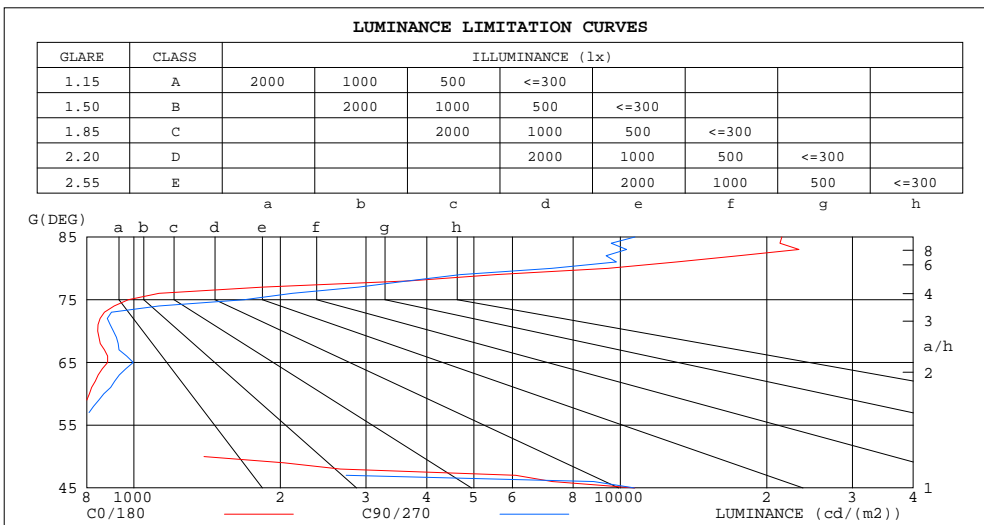
%lum = 95.5%
 %lamp = 95.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz Lamp Flux:381.409x1 lm		
NAME: ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21473	10716
80	9427	7219
75	973	1686
70	842	907
65	883	997
60	810	868
55	750	776
50	1393	744
45	10705	10687

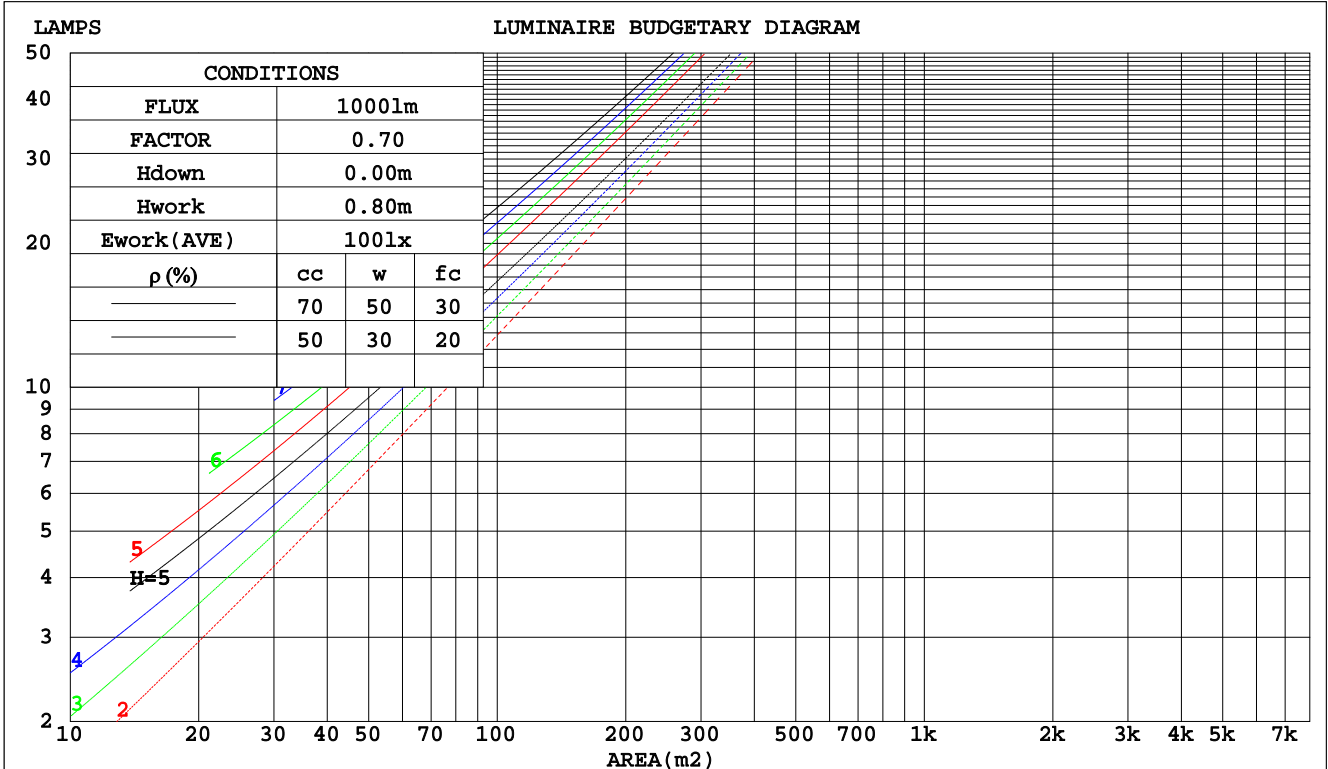
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz Lamp Flux:381.409x1 lm		
NAME:ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.09	1.06	1.03	1.06	1.04	1.01	1.02	1.00	.98	.98	.97	.95	.95	.93	.92	.90
2.0	1.00	.96	.92	.99	.94	.91	.95	.92	.89	.92	.89	.87	.89	.87	.85	.83
3.0	.93	.88	.83	.92	.87	.82	.89	.85	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.87	.80	.76	.85	.80	.75	.83	.78	.74	.81	.77	.73	.79	.75	.72	.71
5.0	.81	.74	.70	.80	.74	.69	.78	.73	.69	.76	.71	.68	.74	.70	.67	.66
6.0	.75	.69	.64	.74	.68	.64	.73	.67	.63	.71	.67	.63	.70	.66	.62	.61
7.0	.70	.64	.59	.70	.64	.59	.68	.63	.59	.67	.62	.58	.66	.61	.58	.57
8.0	.66	.60	.55	.65	.59	.55	.64	.59	.55	.63	.58	.54	.62	.58	.54	.53
9.0	.62	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.59	.54	.51	.49
10.0	.58	.52	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.55	.51	.47	.46



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz		
Lamp Flux:381.409x1 lm		
NAME:ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.214	.122	.039	.207	.118	.037	.194	.111	.035	.182	.105	.034	.170	.099	.032	
2.0	.194	.107	.033	.189	.104	.032	.177	.099	.031	.167	.094	.029	.158	.089	.028	
3.0	.181	.096	.029	.176	.094	.028	.166	.090	.027	.158	.086	.026	.149	.083	.026	
4.0	.170	.088	.026	.166	.087	.026	.158	.084	.025	.150	.080	.024	.143	.077	.024	
5.0	.161	.082	.024	.157	.081	.023	.150	.078	.023	.143	.075	.022	.137	.073	.022	
6.0	.153	.077	.022	.149	.075	.022	.143	.073	.021	.137	.071	.021	.131	.069	.021	
7.0	.145	.072	.020	.142	.071	.020	.137	.069	.020	.131	.067	.020	.126	.066	.019	
8.0	.139	.068	.019	.136	.067	.019	.131	.065	.019	.126	.064	.018	.121	.062	.018	
9.0	.132	.064	.018	.130	.063	.018	.125	.062	.018	.121	.061	.017	.117	.059	.017	
10.0	.127	.061	.017	.125	.060	.017	.120	.059	.017	.116	.058	.016	.113	.057	.016	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.195	.195	.195	.167	.167	.167	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.178	.162	.147	.153	.139	.126	.104	.096	.087	.060	.055	.051	.019	.018	.016	
2.0	.164	.137	.115	.141	.118	.099	.096	.082	.069	.056	.048	.041	.018	.015	.013	
3.0	.152	.119	.092	.130	.102	.080	.090	.071	.056	.052	.041	.033	.017	.013	.011	
4.0	.142	.104	.075	.122	.090	.065	.084	.063	.046	.049	.037	.027	.016	.012	.009	
5.0	.134	.093	.062	.115	.080	.054	.079	.056	.038	.046	.033	.023	.015	.011	.007	
6.0	.127	.084	.053	.109	.072	.046	.075	.051	.033	.044	.030	.019	.014	.010	.006	
7.0	.120	.076	.045	.103	.066	.040	.071	.046	.028	.041	.027	.017	.013	.009	.006	
8.0	.114	.070	.040	.099	.061	.035	.068	.043	.025	.040	.025	.015	.013	.008	.005	
9.0	.109	.065	.035	.094	.056	.031	.065	.040	.022	.038	.023	.013	.012	.008	.004	
10.0	.105	.061	.031	.090	.053	.027	.063	.037	.019	.037	.022	.012	.012	.007	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz		
Lamp Flux:381.409x1 lm		
NAME:ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	20.1	21.1	20.3	21.3	21.5	19.6	20.6	19.8	20.8	21.0
3H	20.0	20.9	20.2	21.1	21.3	19.5	20.4	19.7	20.6	20.8
4H	19.9	20.8	20.2	21.0	21.3	19.4	20.3	19.7	20.6	20.8
6H	20.7	21.5	21.0	21.8	22.0	20.2	21.0	20.5	21.3	21.6
8H	23.0	23.8	23.3	24.1	24.4	21.3	22.1	21.6	22.3	22.6
12H	24.5	25.3	24.8	25.6	25.9	21.9	22.7	22.3	23.0	23.3
4H 2H	19.8	20.7	20.1	21.0	21.2	19.3	20.2	19.6	20.5	20.7
3H	19.7	20.5	20.0	20.8	21.1	19.2	20.0	19.5	20.3	20.6
4H	19.7	20.4	20.0	20.7	21.0	19.3	20.0	19.7	20.3	20.7
6H	21.3	21.9	21.6	22.2	22.6	20.8	21.4	21.2	21.8	22.1
8H	24.3	24.9	24.7	25.2	25.6	22.5	23.1	22.9	23.4	23.8
12H	26.1	26.6	26.5	27.0	27.4	23.5	24.0	23.9	24.4	24.8
8H 4H	19.8	20.4	20.2	20.7	21.1	19.5	20.1	19.9	20.4	20.8
6H	22.6	23.1	23.1	23.5	23.9	22.2	22.7	22.7	23.1	23.5
8H	25.7	26.1	26.1	26.5	27.0	24.3	24.7	24.7	25.1	25.6
12H	27.6	28.0	28.1	28.5	28.9	25.4	25.8	25.9	26.3	26.7
12H 4H	20.2	20.8	20.6	21.1	21.5	20.0	20.5	20.4	20.9	21.3
6H	23.4	23.8	23.8	24.2	24.7	23.1	23.5	23.5	23.9	24.4
8H	26.3	26.7	26.8	27.1	27.6	25.1	25.5	25.6	26.0	26.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.6 / - 0.6					+ 0.9 / - 1.0				
1.5H	+ 1.2 / - 0.8					+ 2.0 / - 1.0				
2.0H	+ 0.3 / - 0.7					+ 0.6 / - 0.5				

CIE Pub.117, 381.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.3)
 Area: 0.005024 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz Lamp Flux:381.409x1 lm		
NAME:ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

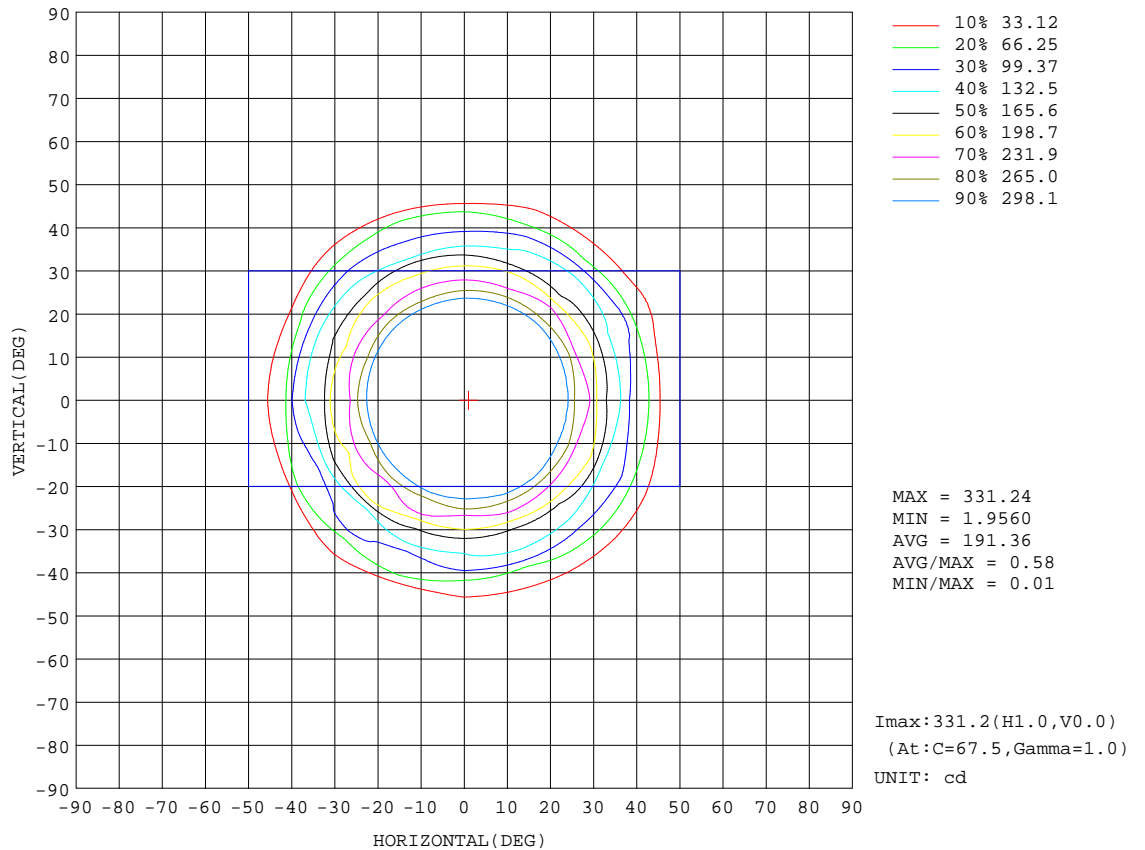
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	84	77	73	83	77	72	82	76	72	68
0.80	91	85	81	91	84	81	89	84	80	76
1.00	96	90	86	95	89	86	94	89	85	81
1.25	100	95	91	99	94	90	97	93	89	85
1.50	103	98	94	102	97	94	100	96	92	87
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	101	104	101	99	92
4.00	112	109	106	110	107	104	106	104	102	94
5.00	113	111	108	111	109	107	107	105	103	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz Lamp Flux:381.409x1 lm		
NAME:ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



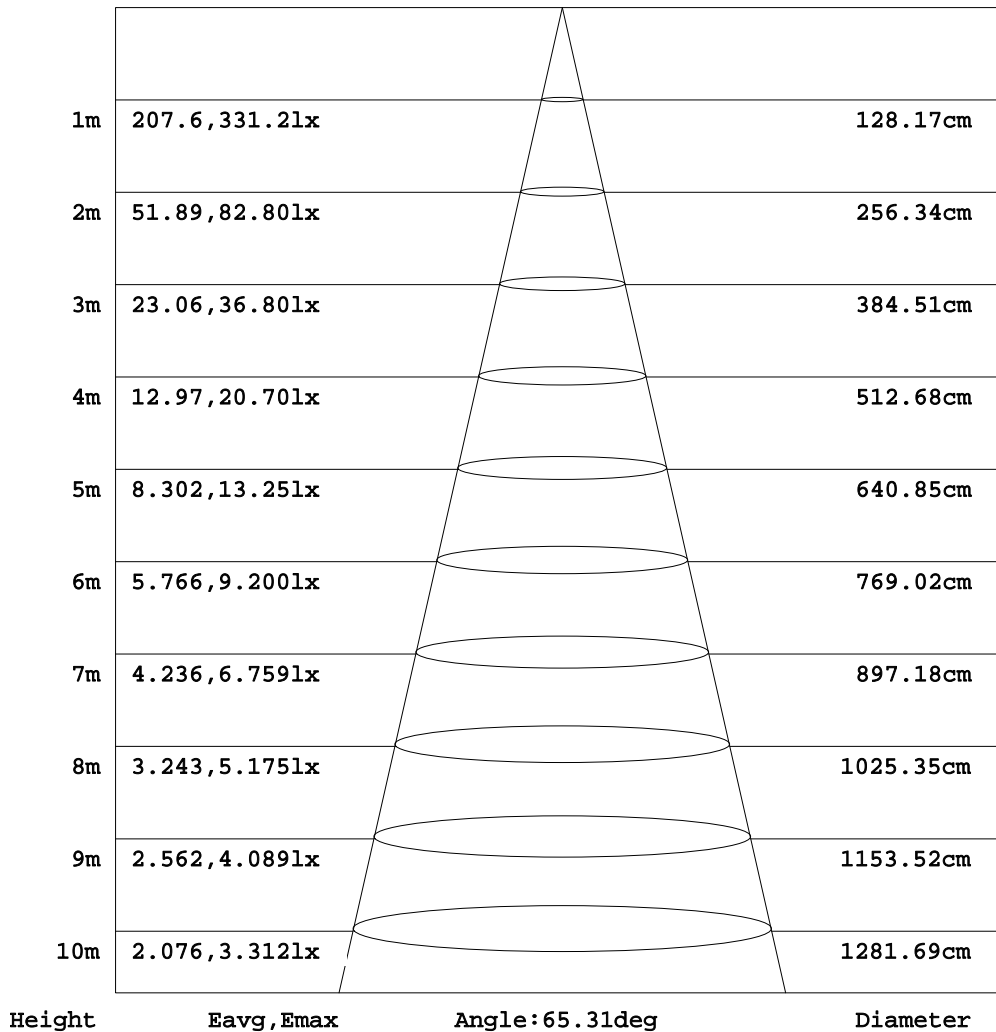
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Water
 Test Date: 2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 44%
 Test Distance: 2.519m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz Lamp Flux:381.409x1 lm		
NAME:ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

Flux out:275.0 lm



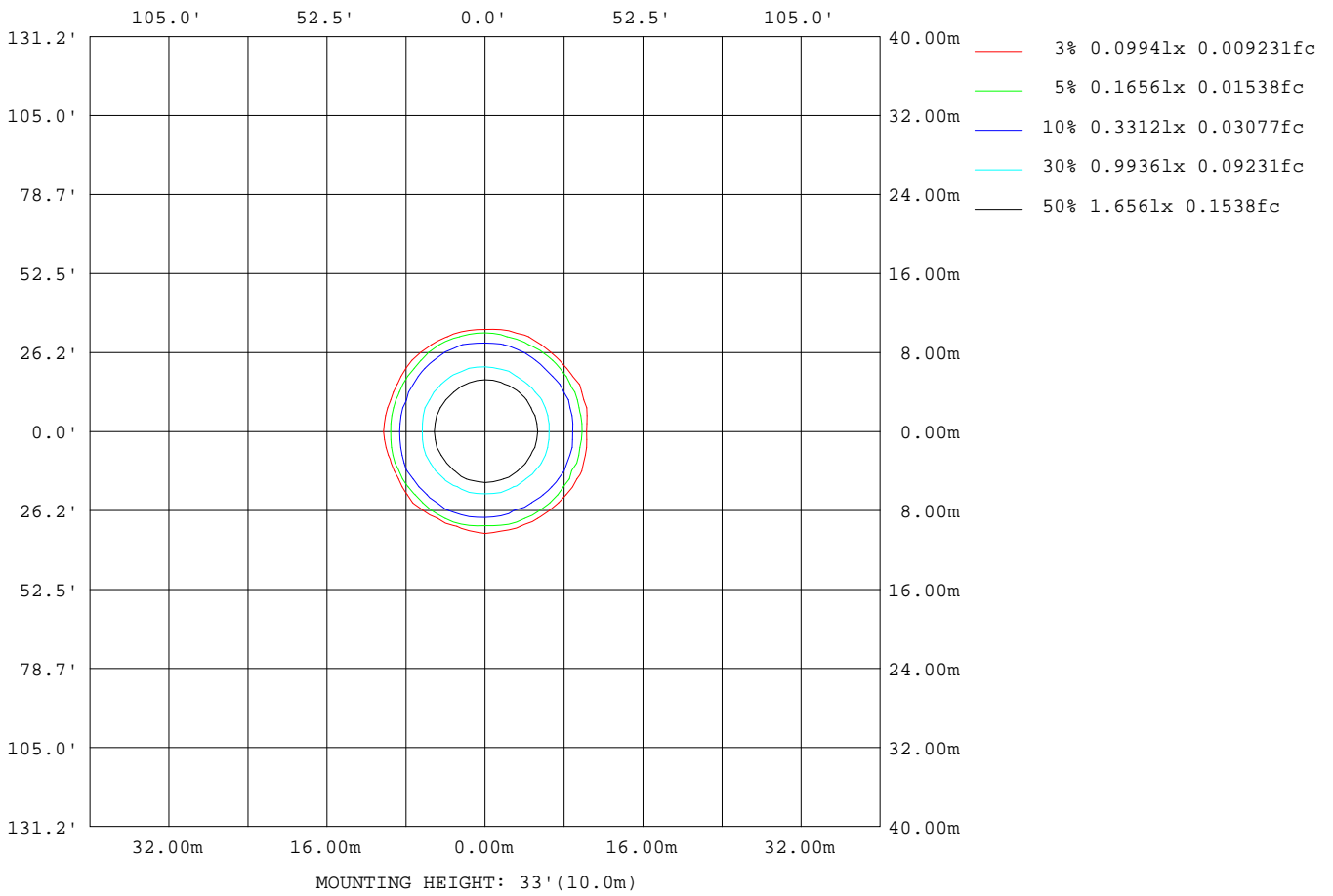
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz Lamp Flux:381.409x1 lm		
NAME:ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.: LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz Lamp Flux:381.409x1 lm		
NAME:ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

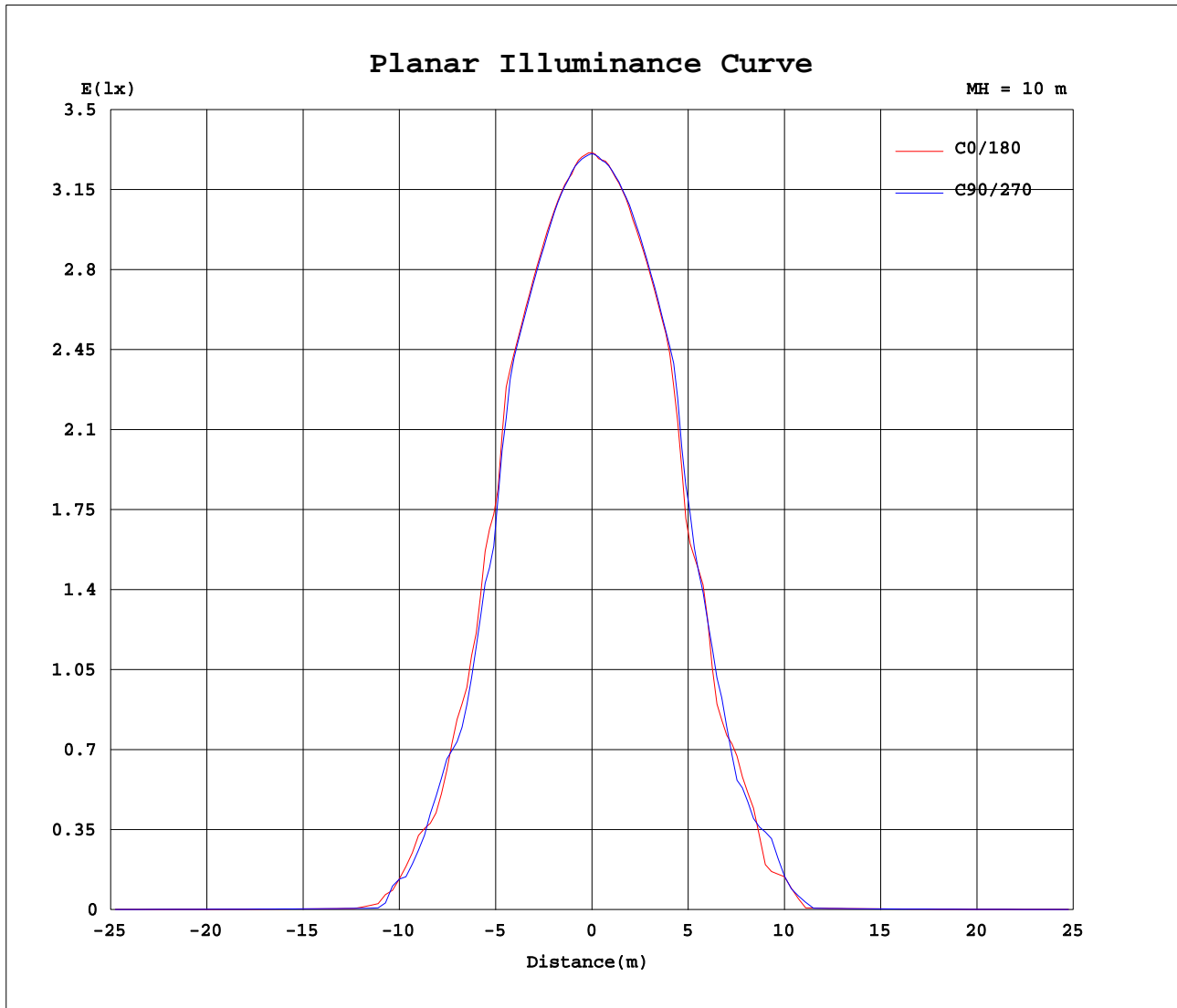
AvgL	cd/m2
L_0~180(65)av	900
L_0~180(75)av	1378
L_0~180(85)av	26139
L_90~270(65)av	956
L_90~270(75)av	1360
L_90~270(85)av	17794
L_45(65)av	918
L_45(75)av	2499
L_45(85)av	22585

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Water
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:44%
 Test Distance:2.519m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Water
 Test Date: 2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity: 44%
 Test Distance: 2.519m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.0789A P:9.2900W PF:0.9806 Freq:60.00Hz Lamp Flux:381.409x1 lm		
NAME: ASD-LCLR-1B-9BK 5000K	TYPE: N/A	WEIGHT: N/A
SPEC.:LED Luminaires	DIM.: N/A	SERIAL No.: N/A
MFR.:ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	331	331	331	331	331	331	331	331	331	331	331	331	331	331	331	331			
5	329	329	328	329	329	329	329	330	329	330	330	330	329	330	330	330			
10	324	324	325	324	324	325	325	325	325	326	327	327	326	327	326	325			
15	317	317	316	317	316	317	318	319	319	320	321	322	321	321	320	320			
20	309	309	307	308	307	308	309	309	311	312	313	313	313	313	312	311			
25	279	280	281	273	270	251	252	251	259	256	263	261	272	281	287	286			
30	213	213	212	196	198	190	215	194	218	197	217	211	214	217	213	215			
35	151	133	148	149	134	139	113	133	139	154	146	131	145	145	159	138			
40	84.0	99.8	86.7	80.5	93.5	83.5	95.1	85.1	98.6	82.4	92.9	88.6	88.9	102	98.3	105			
45	38.0	39.8	38.5	37.8	38.0	23.7	38.8	22.4	40.8	26.3	41.2	44.7	41.5	39.2	48.7	38.5			
50	4.49	2.35	2.47	2.49	2.40	2.48	2.43	2.42	2.42	2.19	2.19	2.35	2.34	2.45	2.44	2.33			
55	2.16	2.15	2.31	2.32	2.24	2.32	2.25	2.27	2.25	1.98	2.08	2.19	2.18	2.24	2.17	2.03			
60	2.03	2.13	2.21	2.22	2.18	2.20	2.20	2.26	2.11	1.90	1.96	2.20	2.09	2.19	2.05	1.93			
65	1.87	1.96	1.98	2.10	2.12	2.04	1.98	2.11	1.95	1.90	1.81	1.94	1.95	2.03	2.02	1.83			
70	1.45	1.58	1.57	1.64	1.56	1.62	1.59	1.57	1.50	1.42	1.37	1.36	1.46	1.76	1.98	1.56			
75	1.26	1.68	2.69	2.91	2.19	3.48	4.31	2.82	2.32	2.26	2.64	1.25	1.35	2.85	3.36	1.54			
80	8.21	8.59	10.3	8.32	6.30	9.54	10.4	13.4	13.2	10.1	12.3	18.4	9.86	12.1	8.56	4.59			
85	9.39	10.5	9.23	6.62	4.69	6.85	9.70	11.4	13.5	10.9	10.6	15.5	10.9	13.0	10.1	5.51			
90	0.71	0.62	0.60	0.44	0.34	0.49	0.72	0.71	0.70	0.55	0.58	0.68	0.79	1.30	2.56	0.98			
95	0.62	0.76	0.07	0.00	0.00	0.00	0.65	0.93	0.83	0.76	0.71	0.01	0.00	0.00	1.47	0.57			
100	0.00	0.00	0.58	1.03	0.67	1.12	0.23	0.00	0.00	0.00	0.01	1.17	0.93	1.09	0.08	0.00			
105	0.54	0.14	0.47	0.51	0.41	0.54	0.51	0.21	0.05	0.05	0.67	1.11	0.85	0.67	0.76	0.07			
110	0.47	0.18	0.28	0.32	0.26	0.35	0.29	0.17	0.40	0.20	0.24	0.46	0.57	0.51	0.35	0.23			
115	0.36	0.17	0.22	0.24	0.22	0.27	0.20	0.18	0.34	0.23	0.03	0.29	0.14	0.30	0.02	0.26			
120	0.30	0.18	0.16	0.22	0.21	0.22	0.14	0.20	0.27	0.20	0.02	0.12	0.19	0.10	0.02	0.23			
125	0.29	0.20	0.14	0.18	0.07	0.19	0.12	0.25	0.22	0.16	0.05	0.00	0.00	0.01	0.07	0.22			
130	0.31	0.24	0.17	0.17	0.13	0.18	0.18	0.29	0.20	0.15	0.06	0.01	0.01	0.03	0.14	0.21			
135	0.36	0.30	0.23	0.18	0.18	0.19	0.25	0.37	0.22	0.16	0.10	0.02	0.02	0.07	0.26	0.23			
140	0.48	0.50	0.33	0.26	0.26	0.27	0.35	0.74	0.35	0.23	0.11	0.04	0.03	0.03	0.38	0.30			
145	1.40	1.47	0.79	0.33	0.32	0.34	0.38	1.76	1.12	0.72	0.53	0.06	0.05	0.15	0.52	0.48			
150	1.24	1.23	1.00	0.41	0.38	0.42	1.29	0.99	0.95	0.35	0.87	0.14	0.08	0.24	0.57	0.68			
155	1.07	1.04	0.51	0.49	0.46	0.50	0.56	0.71	0.18	0.25	0.19	0.19	0.12	0.22	0.16	0.45			
160	0.69	0.62	0.59	0.50	0.49	0.52	0.57	0.67	0.30	0.26	0.24	0.22	0.18	0.25	0.29	0.24			
165	0.60	0.61	0.58	0.53	0.52	0.53	0.58	0.59	0.20	0.20	0.27	0.28	0.26	0.28	0.27	0.20			
170	0.54	0.53	0.51	0.49	0.48	0.49	0.51	0.54	0.26	0.24	0.25	0.27	0.28	0.26	0.22	0.23			
175	0.44	0.44	0.44	0.45	0.45	0.44	0.45	0.45	0.28	0.29	0.30	0.31	0.30	0.30	0.30	0.28			
180	0.36	0.37	0.38	0.38	0.38	0.37	0.36	0.36	0.36	0.37	0.38	0.38	0.38	0.37	0.36	0.36			

C Range: 0 - 360DEG
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