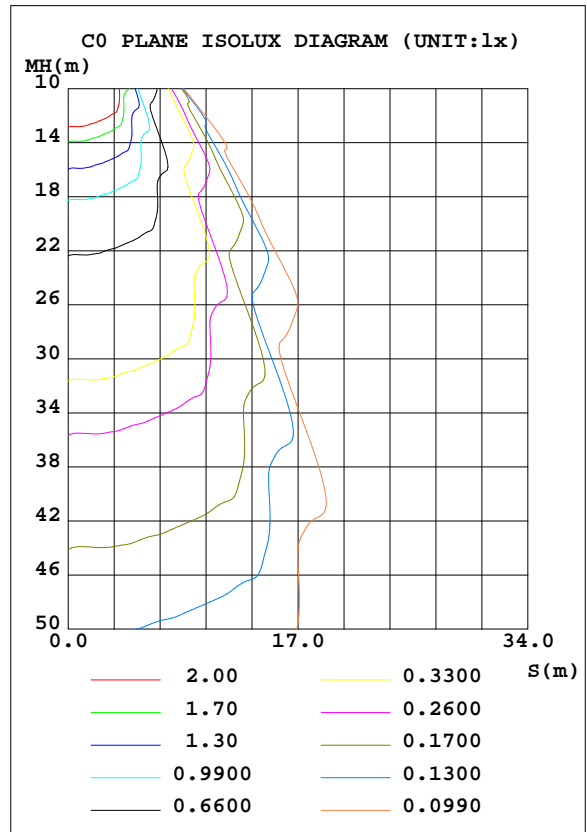
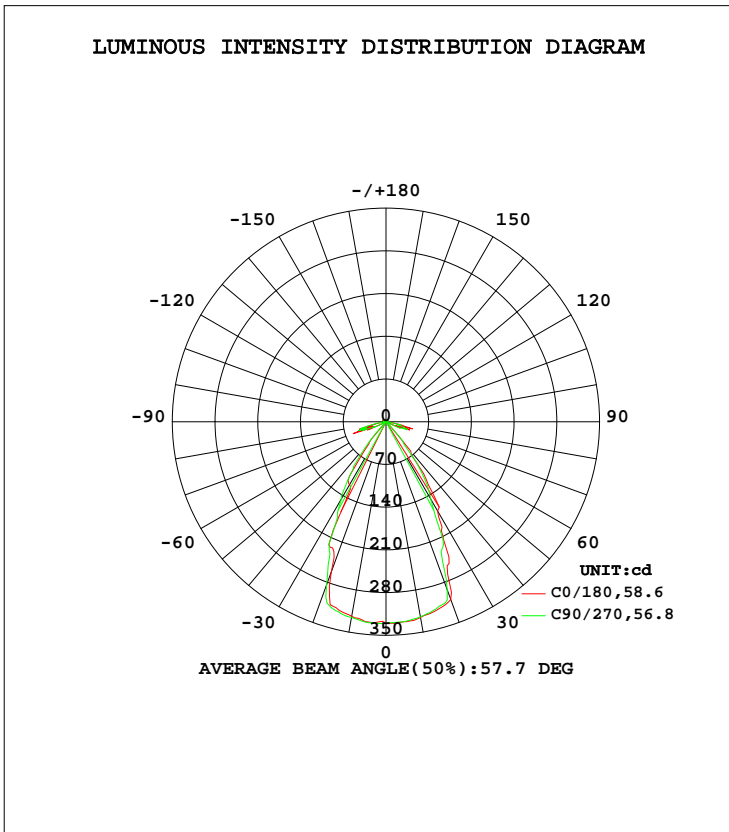


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME:ASD-LCLS-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: 36.07 lm/W			
MODEL	ASD-LCLS-1B-9BK 5000K	I _{max} (cd)	330.8	S/MH(C0/180)	0.93
NOMINAL POWER(W)	9W	LOR(%)	100.0	S/MH(C90/270)	0.88
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	332.53	η UP, DN(C0-180)	0.9,48.7
NOMINAL FLUX(lm)	332.525	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.7,49.7
LAMPS INSIDE	1	η up(%)	1.6	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	98.4	CIBSE SHR MAX	0.90



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	323.6	323.1	325.4	326.7	325.7	326.7	324.7	324.0	0- 10	31.29	31.29	9.41,9.41
20	262.6	267.6	284.4	303.7	310.4	308.2	293.0	271.3	10- 20	89.05	120.3	36.2,36.2
30	120.0	143.0	146.5	162.9	169.0	174.6	147.0	144.1	20- 30	97.37	217.7	65.5,65.5
40	37.65	38.88	41.78	49.98	63.28	49.79	44.41	41.78	30- 40	58.40	276.1	83,83
50	3.210	2.096	3.175	2.345	4.254	2.431	4.321	2.619	40- 50	7.716	283.8	85.4,85.4
60	3.009	1.631	2.930	1.898	3.722	1.818	3.939	2.037	50- 60	2.572	286.4	86.1,86.1
70	57.33	14.73	40.85	3.119	36.57	3.752	37.43	9.841	60- 70	10.62	297.0	89.3,89.3
80	7.191	16.13	14.91	11.83	14.22	9.518	7.391	7.940	70- 80	27.53	324.5	97.6,97.6
90	0.4441	0.4420	0.5418	0.5687	0.6299	0.5695	0.5193	0.4673	80- 90	2.703	327.2	98.4,98.4
100	0.0042	0.3432	0.4040	0.2359	0	0.1039	0.3757	0.1641	90-100	0.3486	327.6	98.5,98.5
110	2.406	2.094	2.043	0.8493	1.184	0.7476	1.161	0.8961	100-110	0.5069	328.1	98.7,98.7
120	4.924	0.8409	5.241	0.9220	3.427	0.1588	4.020	0.1514	110-120	2.378	330.5	99.4,99.4
130	0.9372	0.1973	0.2301	0.1790	0.9477	0.3199	0.0146	0.2744	120-130	1.093	331.6	99.7,99.7
140	0.5914	0.3775	0.2242	0.3495	0.3789	0.1989	0.0286	0.2082	130-140	0.2864	331.9	99.8,99.8
150	1.263	0.5743	0.3417	0.6034	1.138	0.4662	0.0641	0.5158	140-150	0.2988	332.2	99.9,99.9
160	0.8690	0.5634	0.4505	0.5070	0.3498	0.1830	0.1338	0.1825	150-160	0.2383	332.4	100,100
170	0.4899	0.4532	0.4306	0.4652	0.2267	0.2078	0.2128	0.1863	160-170	0.1000	332.5	100,100
180	0.3044	0.3259	0.3329	0.3172	0.3040	0.3274	0.3331	0.3181	170-180	0.0307	332.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 282.48 lm

%lum = 85.0%
 %lamp = 85.0%

Conical surface Flux(120deg): 286.4 lm

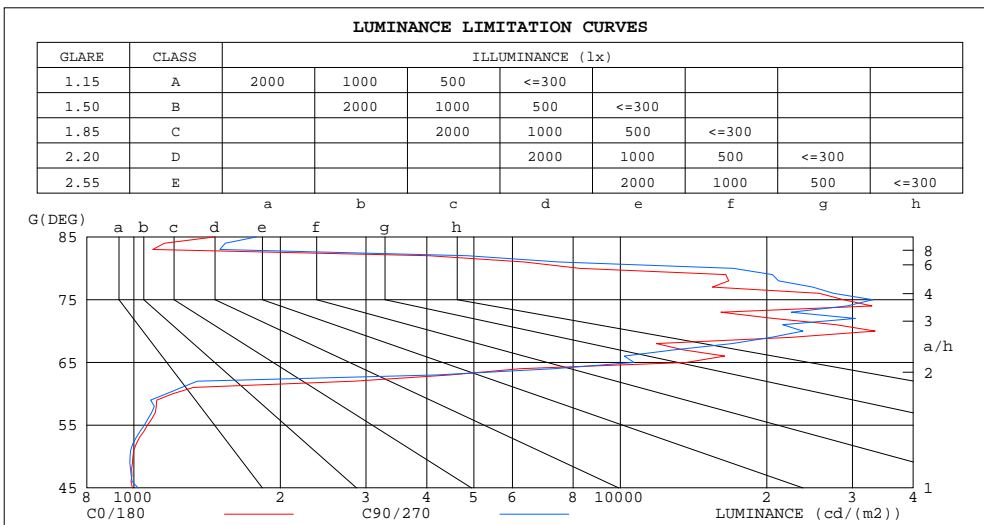
%lum = 86.1%
 %lamp = 86.1%

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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME: ASD-LCLS-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	1463	1784
80	8258	17076
75	28754	33063
70	33424	23748
65	13664	10668
60	1200	1165
55	1066	1050
50	996	982
45	993	1020

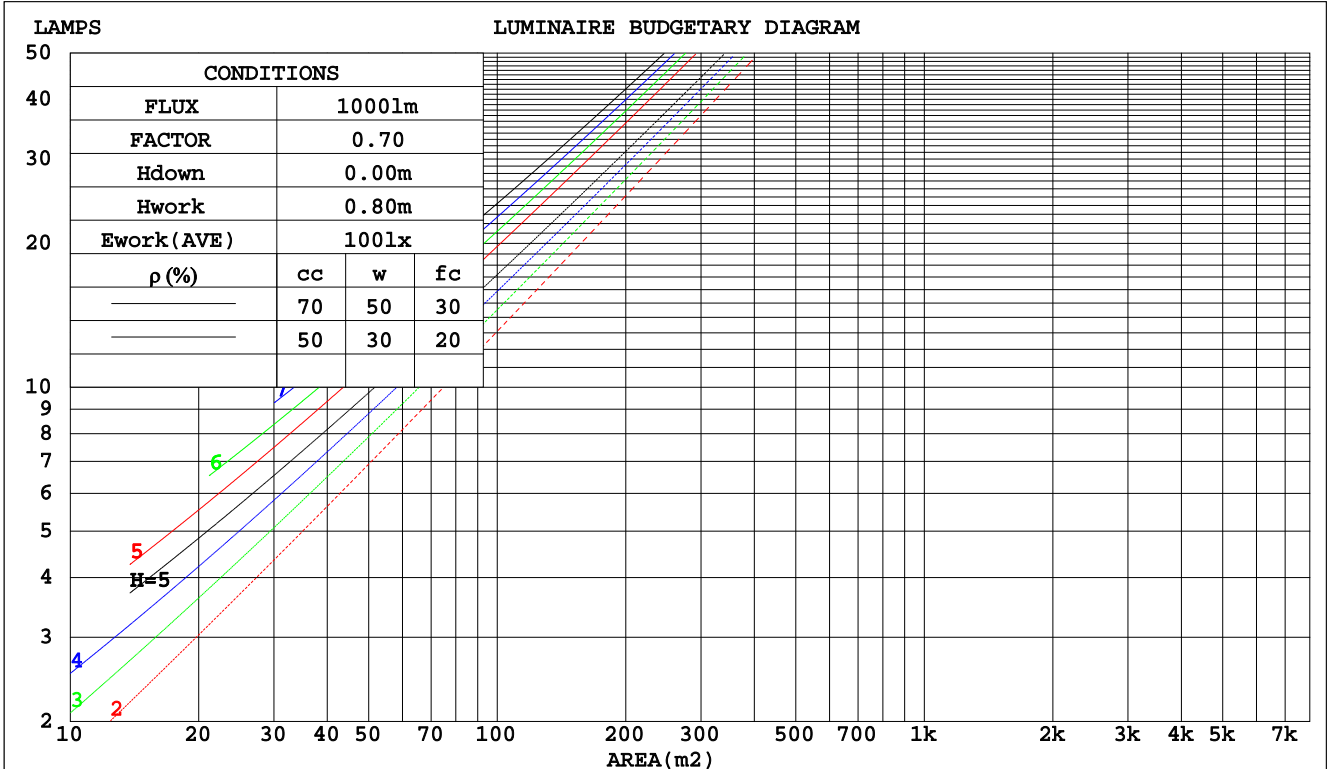
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Water
 Test Date: 2024-08-23

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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME:ASD-LCLS-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																0
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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.96	.95	.93	.93	.91	.90	.88
2.0	.98	.93	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.86	.83	.81	.79
3.0	.90	.84	.79	.89	.83	.79	.86	.81	.77	.83	.79	.76	.80	.77	.74	.72
4.0	.84	.77	.72	.83	.77	.72	.80	.75	.71	.78	.73	.70	.76	.72	.69	.67
5.0	.78	.72	.67	.77	.71	.66	.75	.70	.66	.73	.69	.65	.71	.67	.64	.63
6.0	.73	.67	.62	.73	.66	.62	.71	.65	.61	.69	.64	.61	.68	.63	.60	.58
7.0	.69	.63	.58	.68	.62	.58	.67	.61	.57	.65	.61	.57	.64	.60	.56	.55
8.0	.65	.59	.54	.64	.58	.54	.63	.58	.54	.62	.57	.53	.61	.56	.53	.52
9.0	.62	.55	.51	.61	.55	.51	.60	.54	.51	.59	.54	.50	.58	.53	.50	.49
10.0	.58	.52	.48	.58	.52	.48	.57	.51	.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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz		
Lamp Flux:332.525x1 lm		
NAME: ASD-LCLS-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	.236	.134	.043	.229	.130	.041	.215	.123	.039	.202	.117	.037	.190	.110	.036	
2.0	.217	.119	.036	.210	.116	.036	.199	.110	.034	.188	.105	.033	.178	.100	.032	
3.0	.198	.105	.032	.192	.103	.031	.182	.099	.030	.173	.095	.029	.164	.091	.028	
4.0	.182	.095	.028	.177	.093	.027	.168	.089	.027	.160	.086	.026	.152	.083	.025	
5.0	.169	.086	.025	.165	.084	.025	.157	.082	.024	.149	.079	.023	.143	.076	.023	
6.0	.158	.079	.023	.154	.078	.022	.147	.075	.022	.141	.073	.021	.135	.071	.021	
7.0	.148	.073	.021	.145	.072	.021	.139	.070	.020	.133	.068	.020	.128	.066	.019	
8.0	.140	.068	.019	.137	.068	.019	.132	.066	.019	.126	.064	.018	.122	.062	.018	
9.0	.133	.064	.018	.130	.063	.018	.125	.062	.018	.121	.060	.017	.116	.059	.017	
10.0	.126	.061	.017	.124	.060	.017	.120	.059	.016	.115	.057	.016	.111	.056	.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	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.187	.169	.152	.160	.145	.131	.110	.100	.091	.063	.058	.053	.020	.019	.017	
2.0	.175	.145	.119	.149	.124	.103	.102	.086	.072	.059	.050	.042	.019	.016	.014	
3.0	.163	.126	.097	.140	.109	.084	.096	.076	.059	.055	.044	.035	.018	.014	.011	
4.0	.153	.112	.081	.131	.097	.070	.090	.067	.049	.052	.039	.029	.017	.013	.010	
5.0	.144	.101	.069	.123	.087	.060	.085	.061	.042	.049	.036	.025	.016	.012	.008	
6.0	.136	.091	.060	.117	.079	.052	.081	.055	.037	.047	.033	.022	.015	.011	.007	
7.0	.129	.084	.053	.111	.073	.046	.077	.051	.032	.044	.030	.019	.014	.010	.006	
8.0	.123	.078	.047	.106	.068	.041	.073	.047	.029	.043	.028	.017	.014	.009	.006	
9.0	.117	.073	.043	.101	.063	.037	.070	.044	.026	.041	.026	.016	.013	.009	.005	
10.0	.112	.068	.039	.097	.059	.034	.067	.042	.024	.039	.025	.014	.013	.008	.005	

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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME:ASD-LCLS-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	16.5	17.6	16.8	17.8	18.0	16.7	17.8	17.0	18.0	18.2
3H	26.5	27.5	26.8	27.7	28.0	25.1	26.1	25.4	26.3	26.6
4H	28.8	29.7	29.1	30.0	30.2	28.4	29.4	28.7	29.6	29.9
6H	29.4	30.2	29.7	30.5	30.8	29.5	30.4	29.9	30.7	31.0
8H	29.3	30.2	29.7	30.5	30.8	29.5	30.4	29.9	30.7	31.0
12H	29.3	30.1	29.6	30.4	30.7	29.5	30.3	29.8	30.6	30.9
4H 2H	16.6	17.6	16.9	17.8	18.1	16.9	17.8	17.2	18.1	18.3
3H	27.4	28.3	27.8	28.6	28.9	26.2	27.1	26.6	27.4	27.7
4H	30.2	30.9	30.6	31.3	31.6	29.9	30.6	30.2	31.0	31.3
6H	30.8	31.5	31.2	31.8	32.2	31.0	31.7	31.4	32.0	32.4
8H	30.7	31.4	31.2	31.8	32.2	31.0	31.6	31.4	32.0	32.4
12H	30.7	31.3	31.1	31.7	32.1	30.9	31.5	31.4	31.9	32.3
8H 4H	30.7	31.3	31.1	31.7	32.1	30.5	31.1	30.9	31.5	31.9
6H	31.4	31.9	31.8	32.3	32.8	31.6	32.1	32.1	32.6	33.0
8H	31.3	31.8	31.8	32.3	32.7	31.6	32.1	32.1	32.5	33.0
12H	31.3	31.7	31.8	32.2	32.7	31.5	32.0	32.0	32.4	32.9
12H 4H	30.7	31.3	31.2	31.7	32.1	30.5	31.1	30.9	31.5	31.9
6H	31.4	31.9	31.9	32.3	32.8	31.6	32.1	32.1	32.5	33.0
8H	31.3	31.8	31.8	32.2	32.7	31.6	32.0	32.1	32.5	33.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.6 / - 0.9					+ 0.3 / - 0.5				
1.5H	+ 1.0 / - 1.6					+ 0.7 / - 0.6				
2.0H	+ 1.0 / - 1.8					+ 0.8 / - 0.9				

CIE Pub.117, 332.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.8)
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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME:ASD-LCLS-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

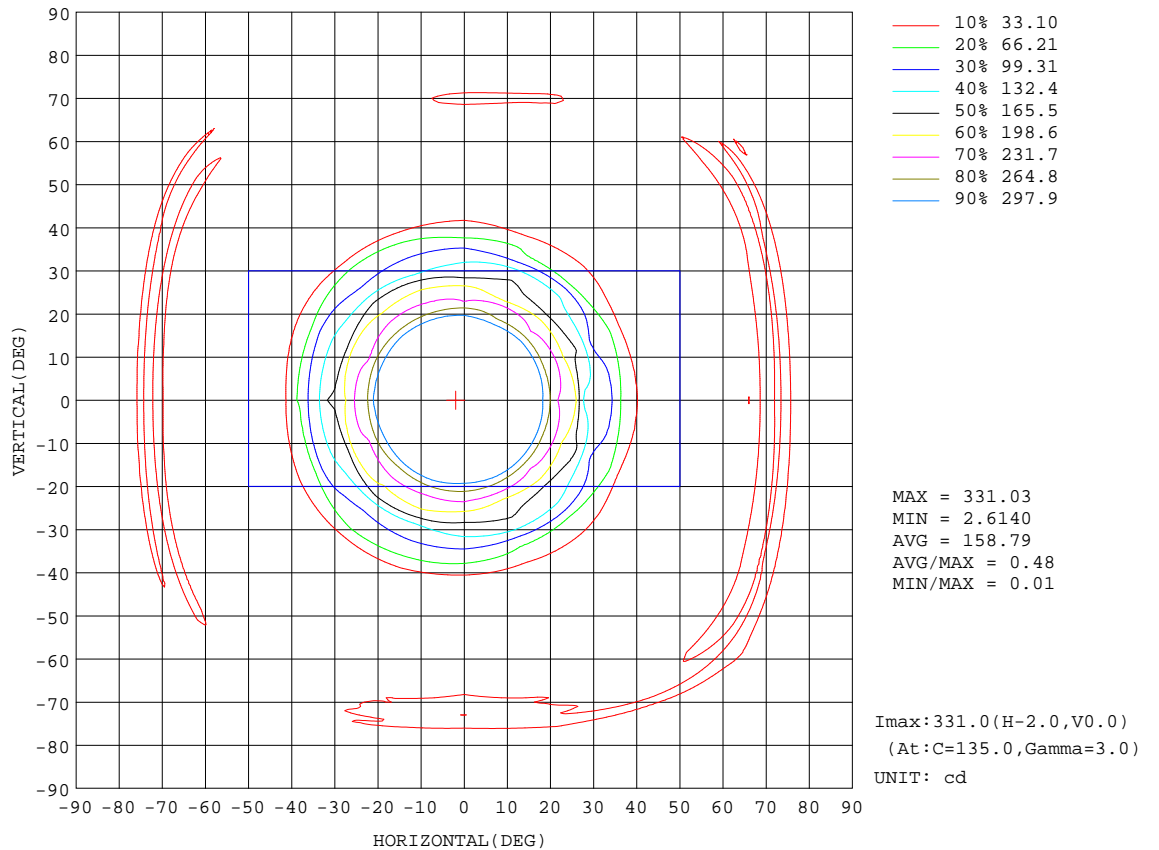
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	82	75	71	81	75	70	81	74	70	66
0.80	89	82	77	88	82	77	87	81	77	72
1.00	93	86	81	92	85	81	90	86	81	76
1.25	97	90	86	96	90	85	94	88	84	79
1.50	100	94	89	99	93	89	96	91	88	82
2.00	103	98	93	102	96	92	99	94	91	84
2.50	106	101	96	104	99	95	100	96	93	86
3.00	108	103	99	106	101	98	102	99	96	88
4.00	111	107	104	108	105	102	104	101	99	91
5.00	112	109	107	110	107	105	106	103	101	93
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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME:ASD-LCLS-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



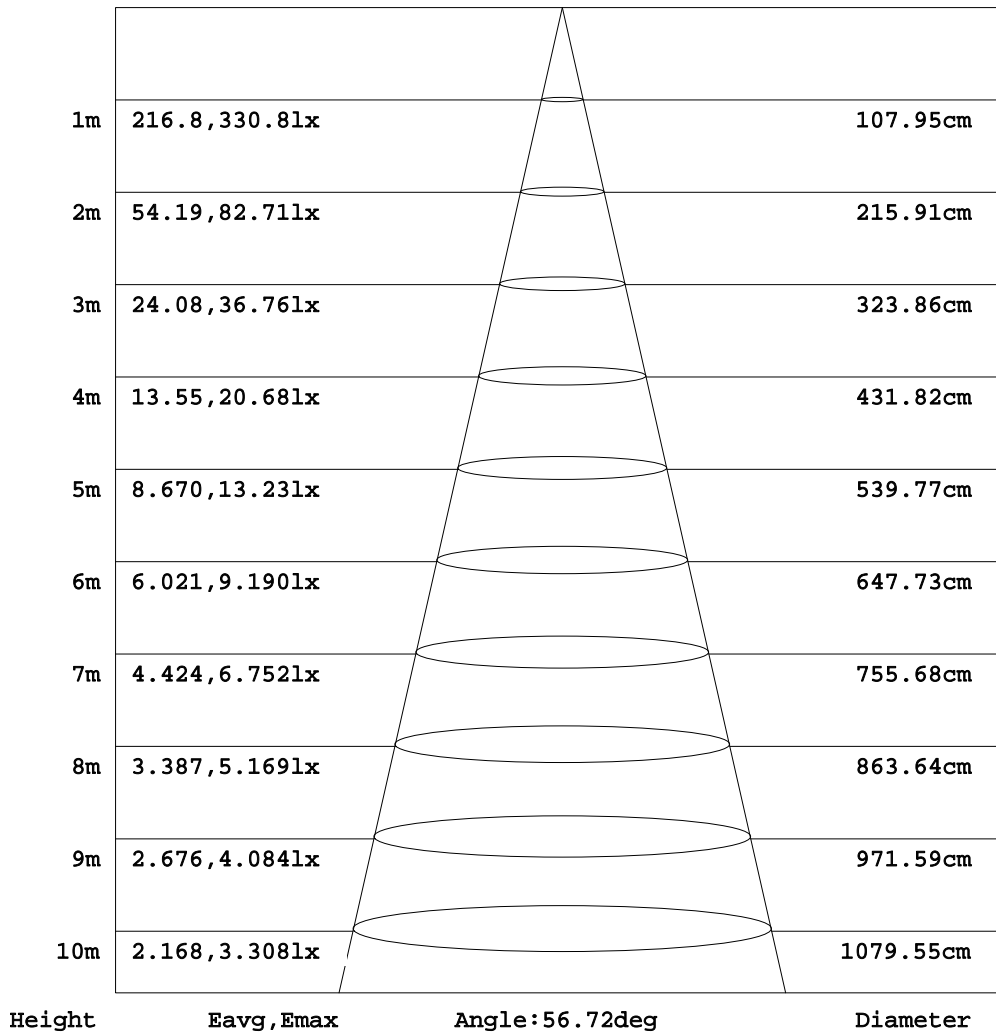
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Water
 Test Date: 2024-08-23

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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME: ASD-LCLS-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:209.2 lm



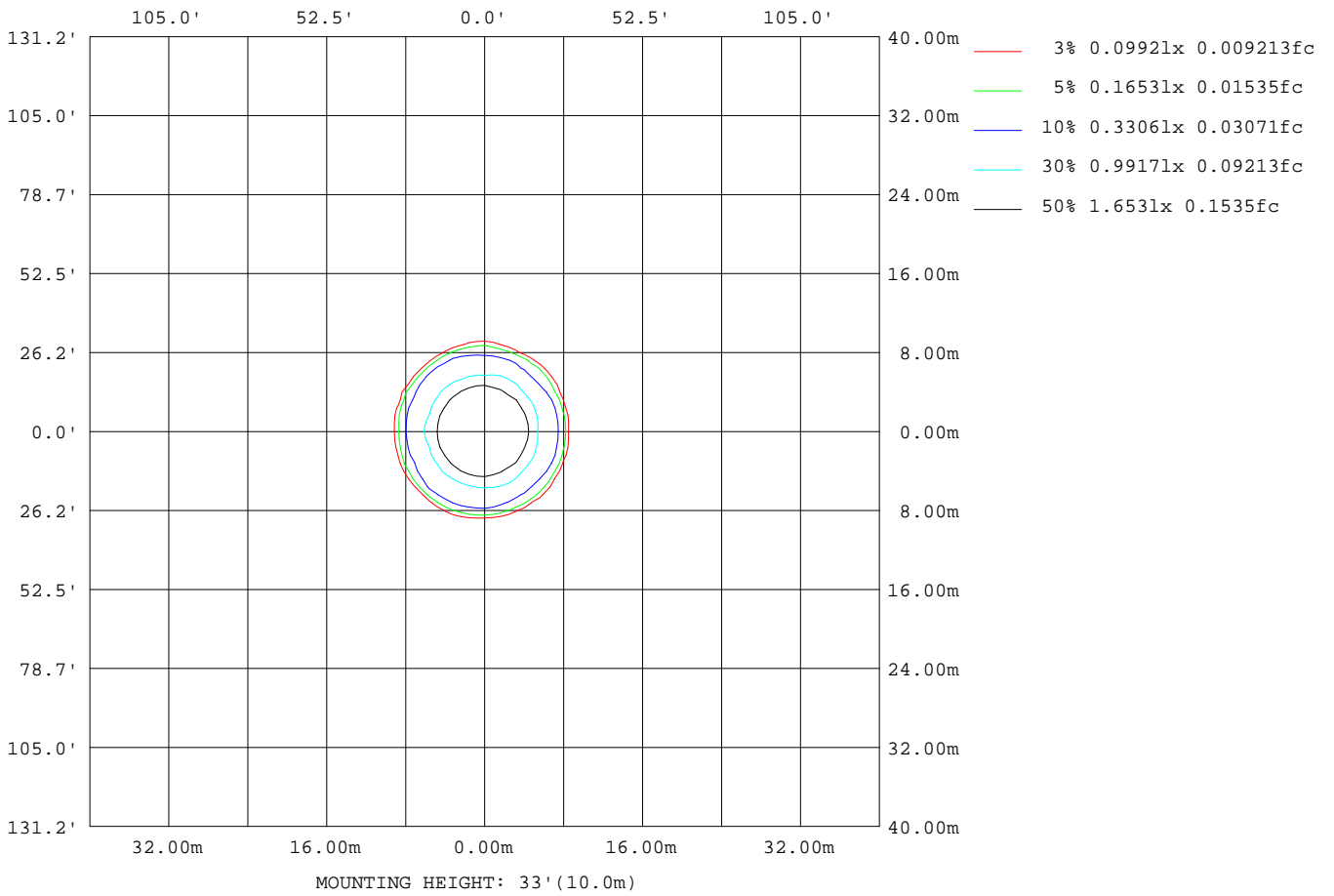
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME: ASD-LCLS-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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME: ASD-LCLS-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

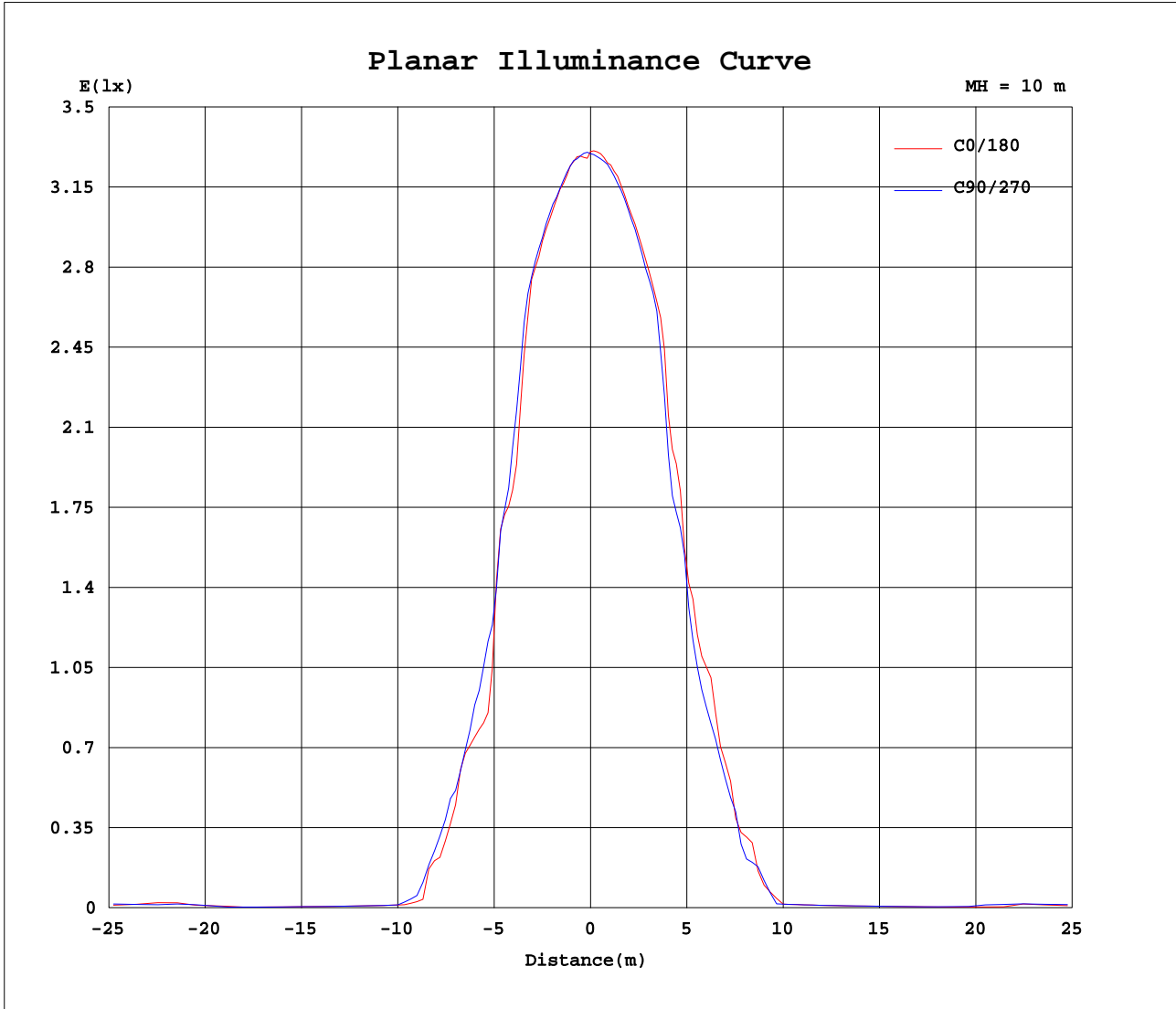
AvgL	cd/m2
L_0~180(65)av	8390
L_0~180(75)av	31574
L_0~180(85)av	1881
L_90~270(65)av	10078
L_90~270(75)av	26834
L_90~270(85)av	1759
L_45(65)av	791
L_45(75)av	20906
L_45(85)av	2998

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:120.08V I:0.0783A P:9.2200W PF:0.9806 Freq:60.00Hz Lamp Flux:332.525x1 lm		
NAME:ASD-LCLS-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	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330			
5	329	329	330	330	331	330	330	329	329	328	330	330	329	329	329	329			
10	324	324	323	324	325	324	327	326	326	326	327	325	325	324	324	323			
15	315	318	318	318	320	321	320	319	320	318	318	317	317	317	316	317			
20	263	260	268	276	284	297	304	304	310	308	308	300	293	268	271	262			
25	222	192	201	186	221	223	223	227	244	225	229	226	223	190	210	198			
30	120	130	143	154	147	146	163	148	169	152	175	159	147	165	144	143			
35	81.8	87.4	73.6	80.9	93.5	95.3	91.2	111	115	115	97.2	102	103	81.4	86.5	88.9			
40	37.7	24.0	38.9	31.7	41.8	42.6	50.0	44.6	63.3	53.2	49.8	51.0	44.4	37.5	41.8	23.0			
45	3.52	3.04	2.51	3.12	3.63	3.18	2.77	3.83	4.62	6.47	3.01	6.92	4.60	4.14	3.10	3.24			
50	3.21	2.69	2.10	2.73	3.18	2.83	2.35	3.51	4.25	3.44	2.43	3.43	4.32	4.01	2.62	2.88			
55	3.07	2.48	1.82	2.48	3.03	2.65	2.06	3.23	4.08	3.19	2.08	3.28	4.15	3.65	2.16	2.67			
60	3.01	2.27	1.63	2.19	2.93	2.40	1.90	2.85	3.72	2.86	1.82	2.92	3.94	3.18	2.04	2.41			
65	29.0	14.2	1.51	10.8	22.7	4.55	1.69	8.71	6.67	2.69	1.67	5.92	20.1	9.86	1.85	8.05			
70	57.3	25.5	14.7	32.8	40.8	31.9	3.12	16.1	36.6	14.3	3.75	25.8	37.4	32.7	9.84	19.6			
75	37.3	37.9	36.5	39.3	43.0	30.3	30.1	26.9	44.8	24.4	16.9	23.5	26.7	27.1	25.2	35.7			
80	7.19	12.0	16.1	15.0	14.9	14.8	11.8	15.0	14.2	19.2	9.52	10.7	7.39	8.20	7.94	15.4			
85	0.64	0.81	0.96	0.91	0.78	1.08	1.53	1.29	1.01	1.43	1.72	1.11	0.76	1.04	1.05	0.78			
90	0.44	0.51	0.44	0.57	0.54	0.63	0.57	0.67	0.63	0.67	0.57	0.64	0.52	0.57	0.47	0.52			
95	0.47	0.48	0.05	0.01	0.01	0.01	0.20	0.55	0.51	0.55	0.44	0.00	0.00	0.00	0.37	0.51			
100	0.00	0.01	0.34	0.50	0.40	0.50	0.24	0.01	0.00	0.00	0.10	0.49	0.38	0.47	0.16	0.00			
105	0.36	0.32	0.48	0.62	0.43	0.54	0.40	0.31	0.02	0.14	0.32	0.50	0.32	0.49	0.35	0.15			
110	2.41	0.64	2.09	2.34	2.04	1.50	0.85	0.30	1.18	0.91	0.75	0.99	1.16	1.38	0.90	0.82			
115	5.11	0.83	3.41	3.78	3.54	2.98	2.69	0.89	2.63	2.93	1.09	2.60	2.37	2.87	1.18	3.48			
120	4.92	3.52	0.84	4.19	5.24	5.52	0.92	3.54	3.43	3.21	0.16	3.38	4.02	3.35	0.15	4.41			
125	1.61	1.12	0.55	1.37	0.08	1.17	0.24	0.84	1.46	1.04	0.29	0.07	0.01	0.08	0.24	1.66			
130	0.94	0.72	0.20	1.01	0.23	0.83	0.18	0.81	0.95	0.94	0.32	0.07	0.01	0.07	0.27	0.77			
135	0.68	0.55	0.28	0.18	0.16	0.18	0.27	0.71	0.69	0.52	0.22	0.09	0.02	0.08	0.26	0.55			
140	0.59	0.56	0.38	0.23	0.22	0.23	0.35	0.54	0.38	0.40	0.20	0.03	0.03	0.03	0.21	0.39			
145	0.95	1.08	0.43	0.30	0.28	0.30	0.43	1.00	0.38	0.75	0.48	0.04	0.04	0.04	0.51	0.74			
150	1.26	1.46	0.57	0.38	0.34	0.40	0.60	1.20	1.14	0.76	0.47	0.13	0.06	0.12	0.52	1.00			
155	1.21	1.12	0.47	0.44	0.41	0.45	0.49	0.88	0.66	0.48	0.19	0.14	0.09	0.13	0.10	0.64			
160	0.87	0.53	0.56	0.47	0.45	0.48	0.51	0.65	0.35	0.27	0.18	0.16	0.13	0.15	0.18	0.15			
165	0.54	0.58	0.53	0.47	0.46	0.48	0.55	0.53	0.16	0.16	0.21	0.22	0.17	0.19	0.19	0.22			
170	0.49	0.47	0.45	0.43	0.43	0.44	0.47	0.50	0.23	0.21	0.21	0.22	0.21	0.20	0.19	0.21			
175	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.22	0.23	0.25	0.26	0.25	0.24	0.23	0.23			
180	0.30	0.31	0.33	0.33	0.33	0.33	0.32	0.31	0.30	0.31	0.33	0.33	0.33	0.33	0.32	0.31			

C Range: 0 - 360DEG
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