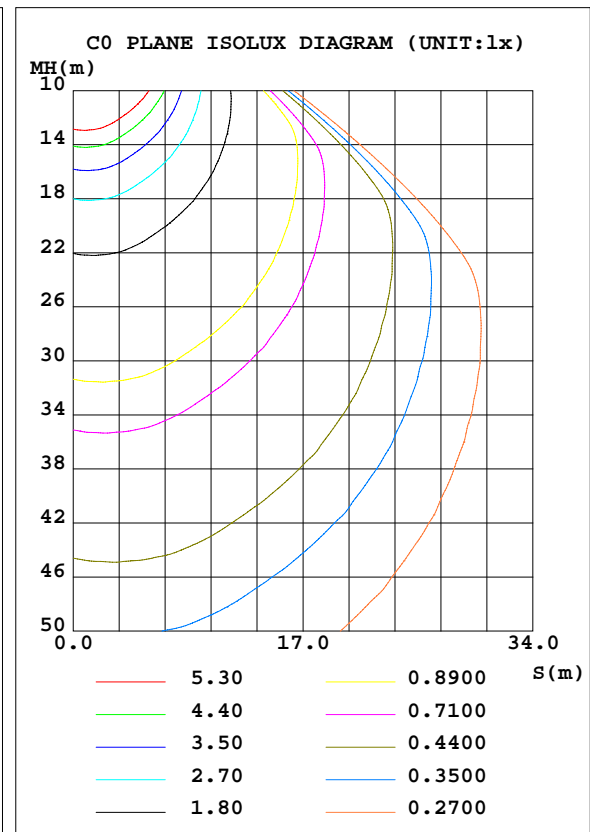
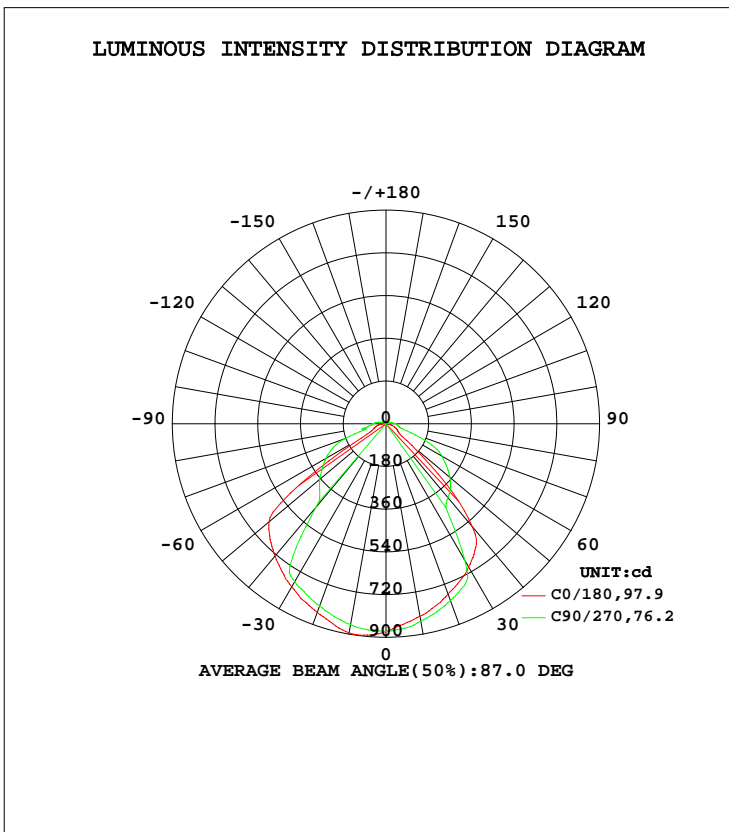


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting Corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 95.98 lm/W
MODEL	ASD-LSR-2050-AP-W	I <sub>max</sub> (cd)	897.8	S/MH(C0/180)	1.20	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.05	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1975.3	η UP, DN(C0-180)	1.1,52.5	
NOMINAL FLUX(lm)	1975.32	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.7,45.7	
LAMPS INSIDE	1	η up(%)	1.8	CIBSE SHR NOM	1.00	
TEST VOLTAGE(V)	120	η down(%)	98.2	CIBSE SHR MAX	1.15	



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [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	895.1	887.8	859.0	833.6	823.4	824.3	844.3	881.2	0- 10	82.64	82.64	4.18,4.18
20	846.1	847.8	817.7	783.8	764.5	768.5	793.4	833.7	10- 20	235.5	318.1	16.1,16.1
30	793.4	790.0	769.0	722.3	696.6	647.3	665.0	782.6	20- 30	358.5	676.6	34.3,34.3
40	725.9	706.1	459.7	451.6	564.7	368.6	406.6	578.4	30- 40	399.4	1076	54.5,54.5
50	643.8	386.4	363.8	318.1	142.6	310.5	352.0	369.7	40- 50	337.8	1414	71.6,71.6
60	118.7	321.9	292.2	213.8	56.17	165.1	272.0	295.6	50- 60	261.0	1675	84.8,84.8
70	52.92	230.5	183.6	51.22	36.36	52.60	113.3	110.1	60- 70	159.4	1834	92.9,92.9
80	32.87	55.67	80.13	39.44	11.86	40.06	52.08	39.42	70- 80	66.54	1901	96.2,96.2
90	7.879	41.71	54.80	25.95	0.0299	26.12	40.97	28.33	80- 90	38.91	1940	98.2,98.2
100	0.0480	27.00	36.96	9.403	0.0701	8.417	23.16	12.85	90-100	23.43	1963	99.4,99.4
110	0.0808	8.336	15.71	0.2561	0.1371	0.1525	4.984	0.1096	100-110	9.096	1972	99.8,99.8
120	0.1628	0.2270	0.6259	0.2523	0.2227	0.2508	0.2390	0.1768	110-120	1.318	1973	99.9,99.9
130	0.3138	0.3024	0.3682	0.3865	0.3300	0.3863	0.3537	0.2805	120-130	0.2574	1974	99.9,99.9
140	0.5693	0.5752	0.6082	0.6624	0.5002	0.5350	0.4991	0.4474	130-140	0.3344	1974	99.9,99.9
150	0.9869	1.003	1.032	1.077	0.6643	0.6682	0.6578	0.6244	140-150	0.4348	1974	100,100
160	1.322	1.318	1.346	1.369	0.7918	0.8012	0.8141	0.8030	150-160	0.4446	1975	100,100
170	1.282	1.278	1.281	1.263	0.8380	0.8385	0.8549	0.8590	160-170	0.3082	1975	100,100
180	1.089	1.073	1.070	1.063	1.094	1.094	1.089	1.092	170-180	0.1010	1975	100,100
DEG	LUMINOUS INTENSITY:cd Less than 25% Percent = 11.0 %									UNIT:lm		

Conical surface Flux(90deg): 1253.3 lm

%lum = 63.4%  
 %lamp = 63.4%

Conical surface Flux(120deg): 1674.8 lm

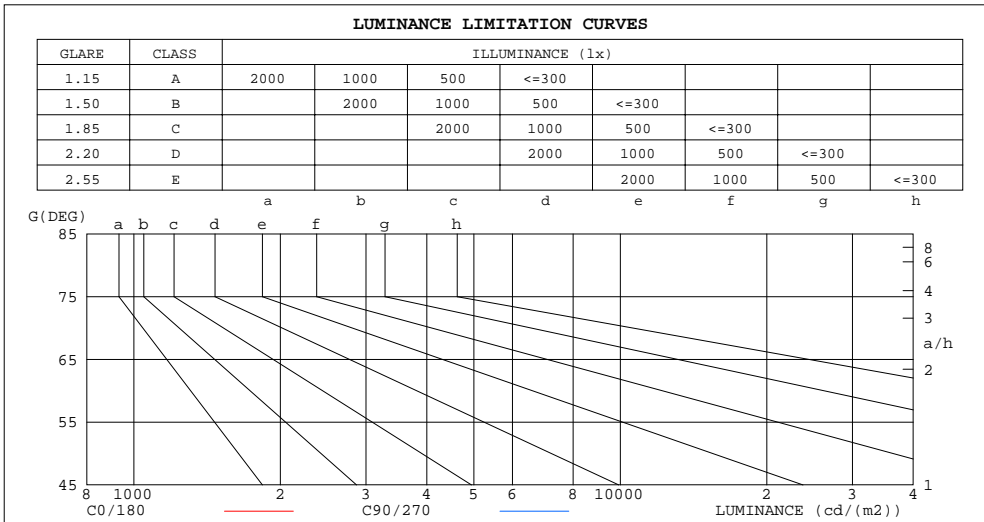
%lum = 84.8%  
 %lamp = 84.8%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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	2423654	7113935
80	1894512	4620366
75	1703003	3545045
70	1548283	5376206
65	1506202	5932473
60	2376252	5851437
55	7512654	5697465
50	10022337	5666871
45	9781317	5599138

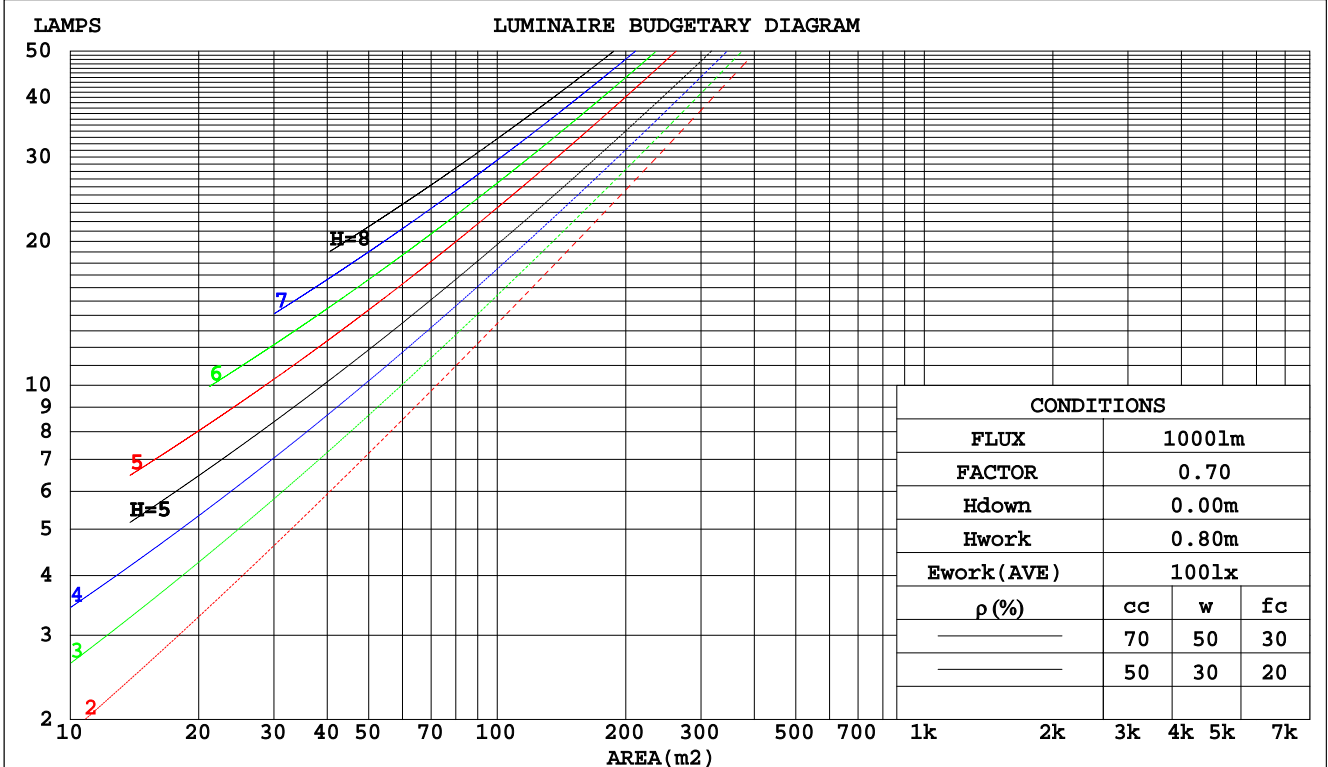
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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	1.00	1.00	1.00	.98
1.0	1.05	1.01	.98	1.03	.99	.96	.98	.95	.93	.94	.92	.90	.90	.88	.87	.85
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.83	.76	.70	.82	.75	.69	.78	.73	.68	.75	.71	.66	.73	.69	.65	.63
4.0	.75	.67	.61	.73	.66	.60	.71	.64	.59	.68	.63	.58	.66	.61	.57	.55
5.0	.67	.59	.53	.66	.58	.53	.64	.57	.52	.62	.56	.51	.60	.55	.51	.48
6.0	.61	.53	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.55	.49	.45	.43
7.0	.56	.48	.42	.55	.47	.42	.53	.46	.41	.52	.46	.41	.50	.45	.40	.39
8.0	.51	.43	.38	.50	.43	.38	.49	.42	.37	.48	.41	.37	.46	.41	.37	.35
9.0	.47	.39	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.43	.37	.33	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.34	.30	.29



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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	.276	.157	.050	.268	.153	.049	.254	.146	.047	.241	.139	.045	.229	.133	.043	
2.0	.259	.142	.044	.253	.139	.043	.240	.134	.042	.229	.129	.040	.219	.124	.039	
3.0	.242	.129	.039	.237	.127	.038	.226	.122	.037	.216	.118	.036	.206	.114	.035	
4.0	.226	.117	.035	.221	.116	.034	.211	.112	.033	.202	.109	.033	.194	.105	.032	
5.0	.211	.107	.031	.206	.106	.031	.198	.103	.030	.190	.100	.030	.182	.097	.029	
6.0	.197	.099	.028	.193	.098	.028	.185	.095	.028	.178	.093	.027	.171	.090	.027	
7.0	.185	.091	.026	.181	.090	.026	.174	.088	.025	.168	.086	.025	.162	.084	.025	
8.0	.174	.085	.024	.170	.084	.024	.164	.082	.023	.158	.080	.023	.153	.078	.023	
9.0	.164	.079	.022	.161	.078	.022	.155	.077	.022	.150	.075	.021	.145	.074	.021	
10.0	.155	.074	.021	.152	.073	.020	.147	.072	.020	.142	.071	.020	.137	.069	.020	

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	.204	.204	.204	.175	.175	.175	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.192	.170	.151	.164	.146	.130	.112	.101	.090	.065	.058	.052	.021	.019	.017	
2.0	.182	.146	.116	.156	.126	.100	.107	.087	.070	.062	.051	.041	.020	.016	.013	
3.0	.173	.128	.092	.148	.111	.080	.102	.077	.056	.059	.045	.033	.019	.015	.011	
4.0	.165	.115	.076	.142	.099	.066	.098	.069	.046	.056	.040	.027	.018	.013	.009	
5.0	.158	.104	.064	.136	.090	.056	.093	.063	.039	.054	.037	.023	.017	.012	.008	
6.0	.151	.095	.056	.130	.083	.049	.089	.058	.034	.052	.034	.020	.017	.011	.007	
7.0	.144	.089	.049	.124	.077	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
8.0	.138	.083	.045	.119	.072	.039	.082	.050	.028	.048	.030	.016	.016	.010	.005	
9.0	.133	.078	.041	.114	.067	.036	.079	.047	.025	.046	.028	.015	.015	.009	.005	
10.0	.127	.074	.038	.110	.064	.033	.076	.045	.023	.044	.027	.014	.014	.009	.005	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm										
NAME: ASD-LSR-2050-AP-W					TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A					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	43.7	45.1	44.0	45.3	45.5	43.3	44.7	43.6	44.9	45.2
3H	43.9	45.2	44.2	45.4	45.7	45.0	46.3	45.4	46.6	46.8
4H	43.9	45.1	44.2	45.4	45.7	45.4	46.6	45.7	46.9	47.1
6H	43.9	45.1	44.3	45.3	45.7	45.8	46.9	46.1	47.2	47.5
8H	44.0	45.0	44.3	45.3	45.7	46.0	47.1	46.3	47.4	47.7
12H	44.0	45.0	44.4	45.3	45.7	46.2	47.3	46.6	47.6	47.9
4H 2H	44.3	45.5	44.7	45.8	46.1	44.1	45.3	44.4	45.6	45.9
3H	44.8	45.8	45.1	46.1	46.5	46.0	47.1	46.4	47.4	47.7
4H	44.8	45.8	45.2	46.1	46.5	46.5	47.4	46.8	47.7	48.1
6H	44.9	45.7	45.3	46.1	46.5	46.9	47.7	47.3	48.1	48.5
8H	45.0	45.7	45.4	46.1	46.6	47.2	47.9	47.6	48.3	48.8
12H	45.0	45.7	45.5	46.2	46.6	47.5	48.2	48.0	48.6	49.1
8H 4H	45.1	45.9	45.5	46.3	46.7	46.5	47.3	47.0	47.7	48.1
6H	45.3	45.9	45.8	46.4	46.8	47.1	47.8	47.6	48.2	48.7
8H	45.4	46.0	45.9	46.4	46.9	47.5	48.1	48.0	48.5	49.0
12H	45.6	46.1	46.1	46.6	47.1	48.0	48.5	48.6	49.0	49.5
12H 4H	45.1	45.8	45.6	46.2	46.7	46.5	47.2	47.0	47.6	48.1
6H	45.4	45.9	45.9	46.4	46.9	47.1	47.7	47.6	48.1	48.6
8H	45.6	46.0	46.1	46.5	47.0	47.6	48.1	48.1	48.6	49.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.4					+ 0.2 / - 0.3				
1.5H	+ 1.2 / - 0.7					+ 0.2 / - 0.4				
2.0H	+ 1.9 / - 2.3					+ 0.3 / - 0.6				

CIE Pub.117 Corrected 1975 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.4)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting Corp	SUR.:N/A	Shielding Angle:N/A

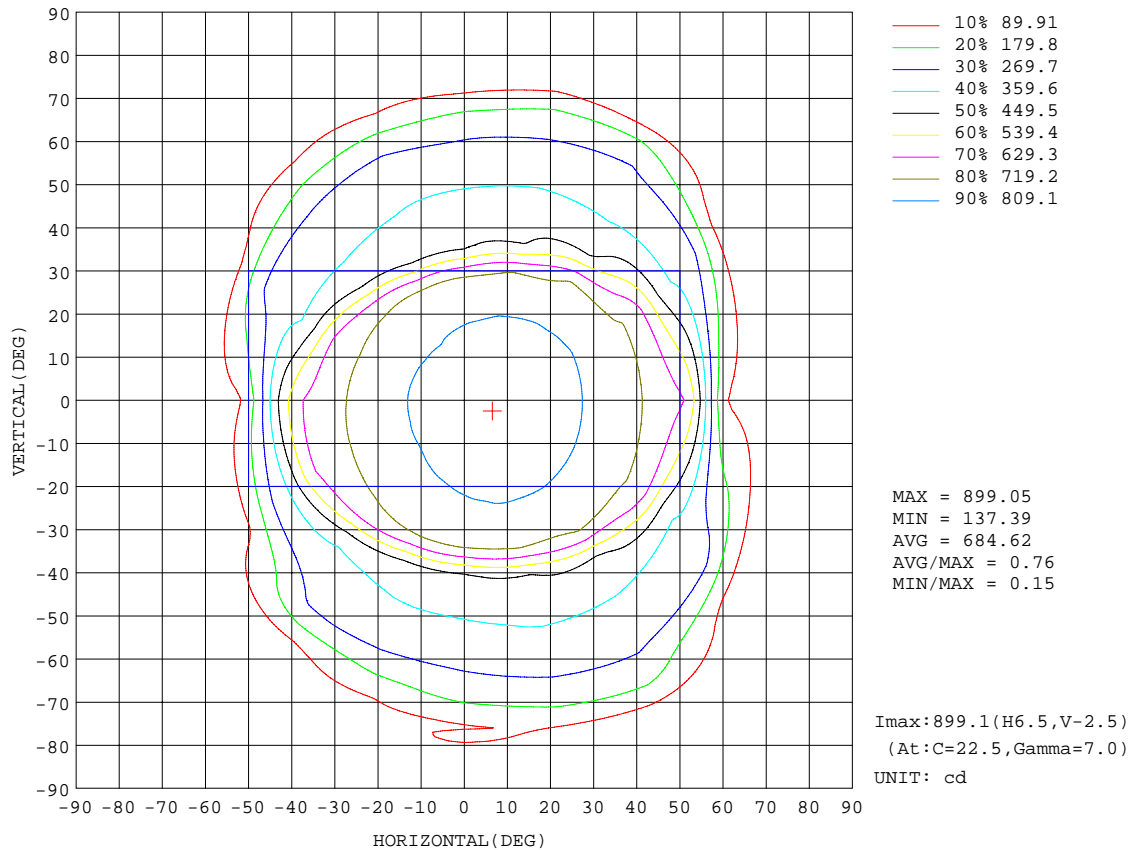
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	52	46	62	52	46	61	52	46	40
0.80	73	62	56	72	62	56	70	61	55	49
1.00	81	71	64	80	70	64	78	71	64	57
1.25	87	78	72	86	77	71	83	76	71	64
1.50	92	83	77	90	82	77	87	81	75	69
2.00	98	90	85	96	89	84	93	87	82	75
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	96	92	98	93	90	81
4.00	107	102	98	105	101	97	101	97	94	85
5.00	110	105	101	107	103	100	102	99	97	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

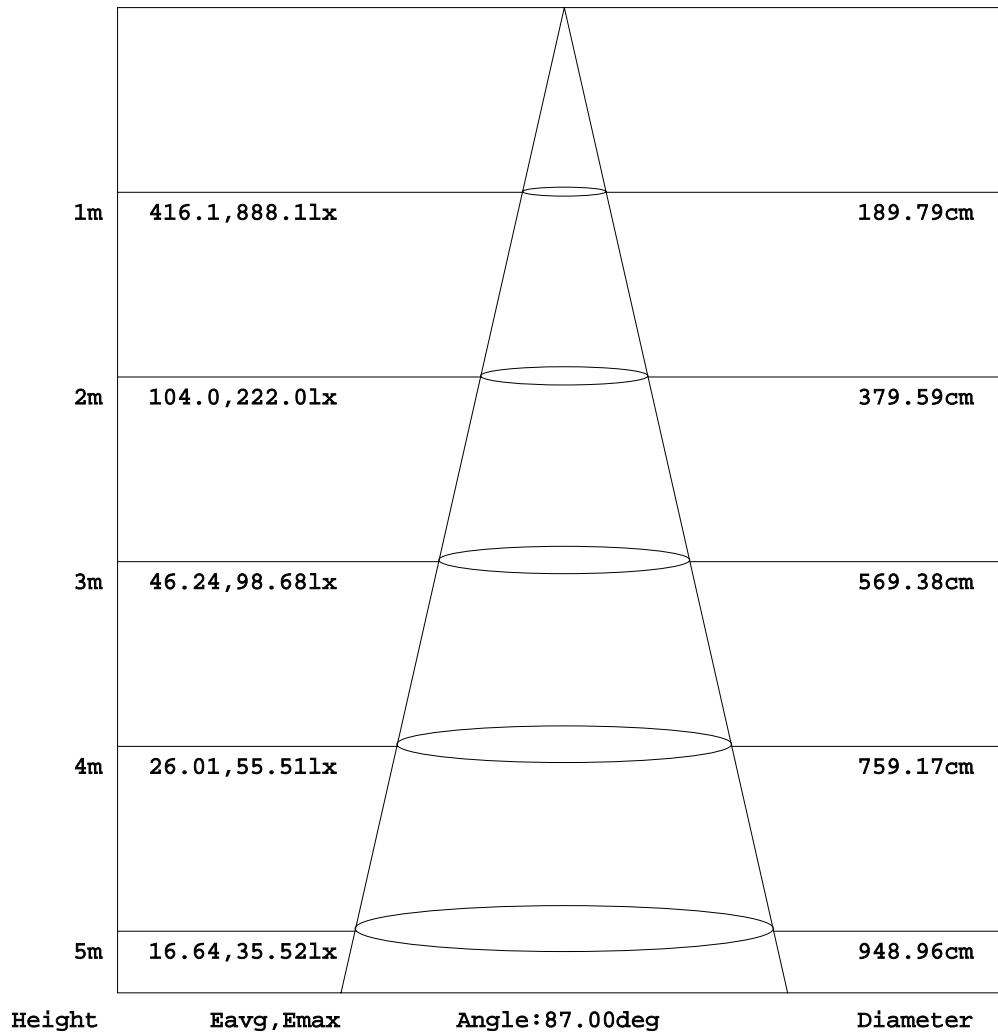
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting Corp	SUR.:N/A	Shielding Angle:N/A

Flux out:1219 lm



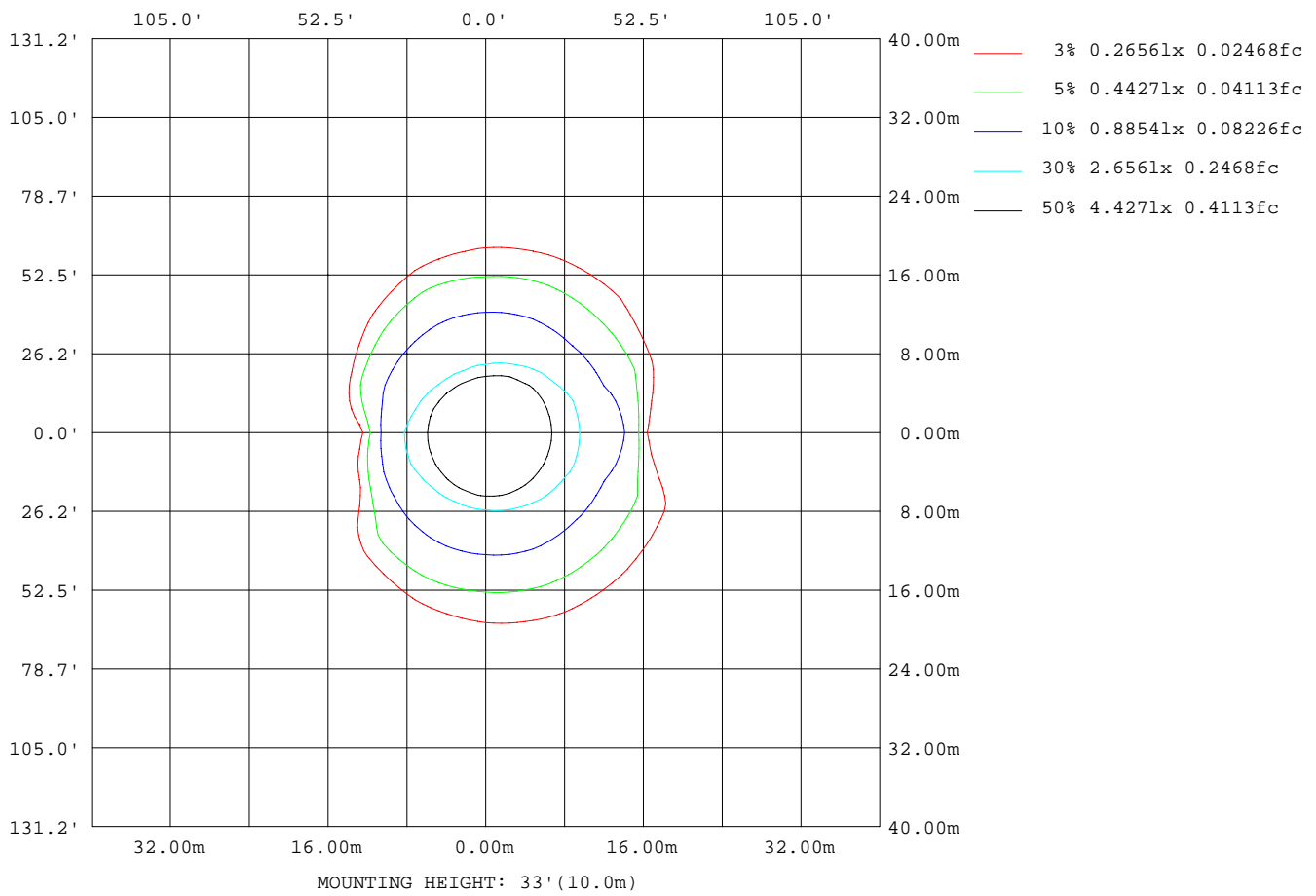
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:

LED Avg.L Report

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting Corp	SUR.:N/A	Shielding Angle:N/A

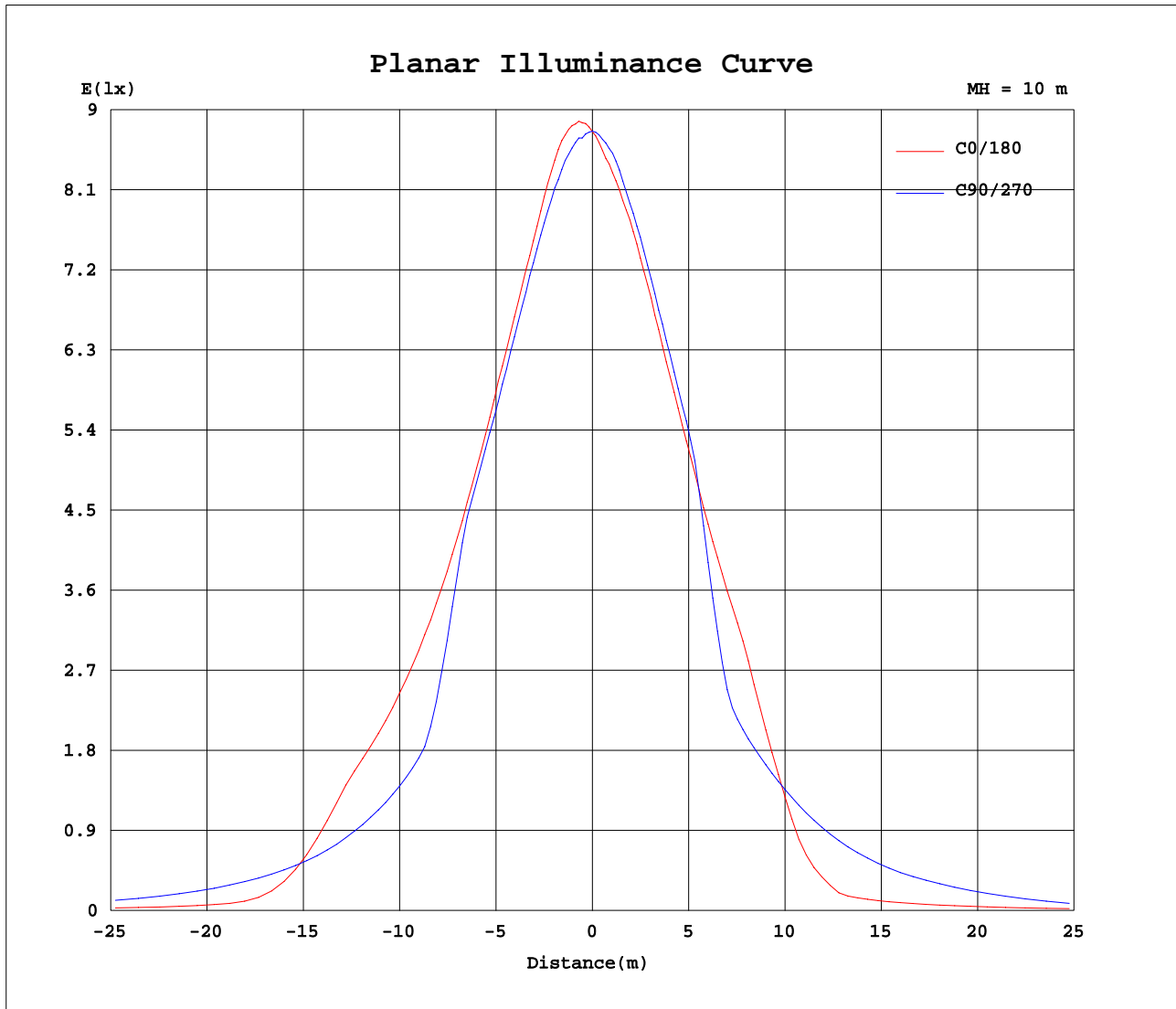
AvgL	cd/m2
L_0~180(65)av	1308854
L_0~180(75)av	1333086
L_0~180(85)av	1362418
L_90~270(65)av	5489320
L_90~270(75)av	2945628
L_90~270(85)av	6214512
L_45(65)av	4088156
L_45(75)av	2400506
L_45(85)av	4278914

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:ben  
 Test Date:2017-08-07

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:45%  
 Test Distance:2.447m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: ben  
 Test Date: 2017-08-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 45%  
 Test Distance: 2.447m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.1734A P:20.58W PF:0.9885 Lamp Flux:1975.32x1 lm		
NAME: ASD-LSR-2050-AP-W	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	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	875	875	875	875	875	875	875	875	875	875	875	875	875	875	875	875			
5	894	895	893	882	872	863	857	850	848	847	853	858	865	876	886	892			
10	895	895	888	876	859	844	834	827	823	820	824	831	844	867	881	891			
15	872	872	875	862	841	821	810	805	797	794	798	804	821	844	862	871			
20	846	846	848	834	818	799	784	773	764	762	769	777	793	814	834	846			
25	822	822	821	811	794	776	758	745	733	730	733	743	762	787	807	821			
30	793	794	790	784	769	746	722	709	697	687	647	614	665	754	783	793			
35	762	761	762	752	686	643	660	663	653	567	444	414	451	583	745	762			
40	726	728	706	559	460	425	452	562	565	382	369	381	407	430	578	724			
45	691	679	489	419	395	374	349	361	361	328	342	360	384	402	410	639			
50	644	474	386	390	364	349	318	248	143	287	310	339	352	371	370	444			
55	431	351	359	355	326	316	287	104	67.1	182	259	311	312	332	333	347			
60	119	323	322	317	292	268	214	61.8	56.2	63.5	165	248	272	294	296	286			
65	63.6	242	286	278	250	188	78.6	50.9	47.0	47.5	75.4	151	214	239	251	117			
70	52.9	79.7	231	224	184	95.5	51.2	40.2	36.4	36.8	52.6	73.7	113	155	110	52.7			
75	44.0	50.6	113	120	91.6	67.2	44.4	28.5	25.0	31.7	44.9	54.9	60.8	66.4	46.5	40.8			
80	32.9	38.7	55.7	73.4	80.1	58.7	39.4	20.2	11.9	26.0	40.1	48.4	52.1	47.9	39.4	30.3			
85	21.1	32.6	47.7	62.0	61.9	50.6	33.7	13.4	2.64	19.0	34.0	43.9	46.4	42.4	33.7	21.5			
90	7.88	26.7	41.7	52.9	54.8	44.5	25.9	6.03	0.03	11.0	26.1	37.3	41.0	37.2	28.3	15.4			
95	0.35	19.6	35.6	45.7	46.6	35.8	17.8	0.11	0.04	2.78	17.3	28.3	32.7	29.8	20.9	8.24			
100	0.05	11.5	27.0	36.8	37.0	26.0	9.40	0.13	0.07	0.09	8.42	18.6	23.2	21.0	12.8	0.56			
105	0.06	3.06	17.8	26.4	26.3	16.1	1.56	0.17	0.10	0.11	0.71	9.38	13.6	11.8	4.41	0.06			
110	0.08	0.13	8.34	15.8	15.7	7.08	0.26	0.21	0.14	0.14	0.15	1.53	4.98	3.44	0.11	0.08			
115	0.11	0.13	0.37	6.27	6.29	0.45	0.24	0.25	0.18	0.19	0.19	0.20	0.19	0.17	0.14	0.11			
120	0.16	0.17	0.23	0.34	0.63	0.33	0.25	0.28	0.22	0.23	0.25	0.26	0.24	0.21	0.18	0.15			
125	0.23	0.22	0.24	0.30	0.42	0.31	0.30	0.34	0.27	0.29	0.32	0.32	0.29	0.26	0.22	0.20			
130	0.31	0.30	0.30	0.33	0.37	0.36	0.39	0.42	0.33	0.36	0.39	0.38	0.35	0.32	0.28	0.25			
135	0.42	0.42	0.41	0.43	0.45	0.47	0.50	0.53	0.41	0.43	0.46	0.45	0.42	0.39	0.36	0.32			
140	0.57	0.57	0.58	0.58	0.61	0.63	0.66	0.69	0.50	0.52	0.53	0.52	0.50	0.48	0.45	0.41			
145	0.78	0.78	0.79	0.80	0.82	0.85	0.87	0.90	0.59	0.60	0.60	0.60	0.58	0.56	0.54	0.51			
150	0.99	0.99	1.00	1.01	1.03	1.05	1.08	1.10	0.66	0.67	0.67	0.66	0.66	0.64	0.62	0.61			
155	1.17	1.17	1.17	1.18	1.20	1.22	1.24	1.25	0.74	0.75	0.75	0.75	0.75	0.74	0.73	0.72			
160	1.32	1.32	1.32	1.33	1.35	1.36	1.37	1.38	0.79	0.80	0.80	0.80	0.81	0.82	0.80	0.79			
165	1.35	1.35	1.35	1.35	1.37	1.36	1.37	1.37	0.81	0.81	0.83	0.84	0.85	0.86	0.85	0.83			
170	1.28	1.28	1.28	1.28	1.28	1.27	1.26	1.27	0.84	0.84	0.84	0.84	0.85	0.87	0.86	0.85			
175	1.22	1.22	1.22	1.21	1.23	1.22	1.21	1.21	0.91	0.90	0.90	0.90	0.92	0.93	0.93	0.92			
180	1.09	1.08	1.07	1.07	1.07	1.07	1.06	1.05	1.09	1.09	1.09	1.09	1.09	1.10	1.09	1.08			

C Range: 0 - 360DEG  
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