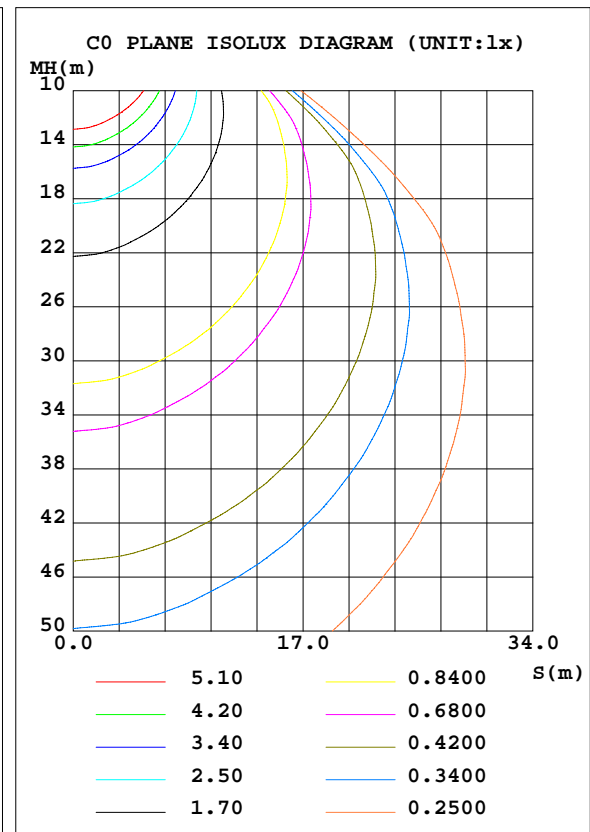
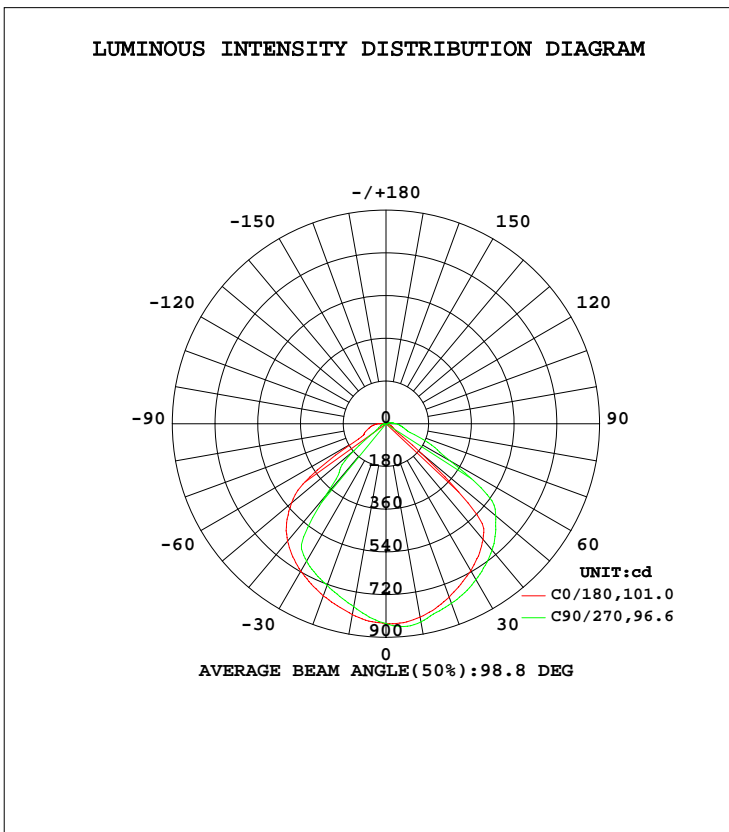


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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: 93.25 lm/W
MODEL	ASD-LSR-2050-AP	I <sub>max</sub> (cd)	860.0	S/MH(C0/180)	1.27	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.34	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1870.5	η UP, DN(C0-180)	0.2,40.2	
NOMINAL FLUX(lm)	1870.52	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.9,58.7	
LAMPS INSIDE	1	η up(%)	1.1	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	η down(%)	98.9	CIBSE SHR MAX	1.30	



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:Hill  
 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	816.8	796.5	783.0	789.3	827.4	848.2	847.7	838.3	0- 10	79.33	79.33	4.24,4.24
20	772.1	750.9	725.1	735.9	778.0	803.9	805.6	795.9	10- 20	224.5	303.9	16.2,16.2
30	717.8	704.2	668.8	678.4	715.6	742.4	758.9	746.3	20- 30	343.9	647.8	34.6,34.6
40	645.3	616.9	394.8	466.2	636.8	674.9	695.9	681.4	30- 40	421.0	1069	57.1,57.1
50	519.3	234.8	177.6	53.85	199.3	521.0	603.3	582.9	40- 50	374.0	1443	77.1,77.1
60	158.1	78.21	37.22	22.59	34.41	208.7	310.9	438.5	50- 60	226.7	1669	89.2,89.2
70	89.33	46.76	23.32	7.499	19.35	49.68	108.8	131.0	60- 70	103.1	1773	94.8,94.8
80	63.09	20.72	12.08	0.3642	6.373	31.57	68.14	79.24	70- 80	48.07	1821	97.3,97.3
90	32.16	6.143	0.2788	0.4261	0.4625	20.54	42.82	55.16	80- 90	29.78	1850	98.9,98.9
100	7.669	0.3470	0.2577	0.4788	0.4800	2.667	23.54	21.81	90-100	13.79	1864	99.7,99.7
110	0.1586	0.1969	0.3044	0.4775	0.3769	0.1144	6.257	0.8513	100-110	3.857	1868	99.9,99.9
120	0.1951	0.2844	0.3394	0.5070	0.5641	0.2350	0.2047	0.1103	110-120	0.4266	1868	99.9,99.9
130	0.3525	0.4211	0.4770	0.4526	0.6450	0.3315	0.3684	0.2106	120-130	0.3153	1869	99.9,99.9
140	0.6197	0.6868	0.7218	0.7087	0.7615	0.4930	0.5140	0.3703	130-140	0.3853	1869	99.9,99.9
150	1.047	1.105	1.122	1.103	0.8717	0.6585	0.7190	0.5870	140-150	0.4733	1870	100,100
160	1.358	1.380	1.372	1.334	0.7939	0.8309	0.8829	0.7997	150-160	0.4683	1870	100,100
170	1.263	1.256	1.245	1.230	0.8414	0.8451	0.8543	0.8495	160-170	0.3076	1870	100,100
180	1.063	1.063	1.051	1.042	1.068	1.069	1.059	1.051	170-180	0.0998	1871	100,100
DEG	LUMINOUS INTENSITY:cd Less than 25% Percent = 3.5 %									UNIT:lm		

Conical surface Flux(90deg): 1270.7 lm

%lum = 67.9%  
%lamp = 67.9%

Conical surface Flux(120deg): 1669.4 lm

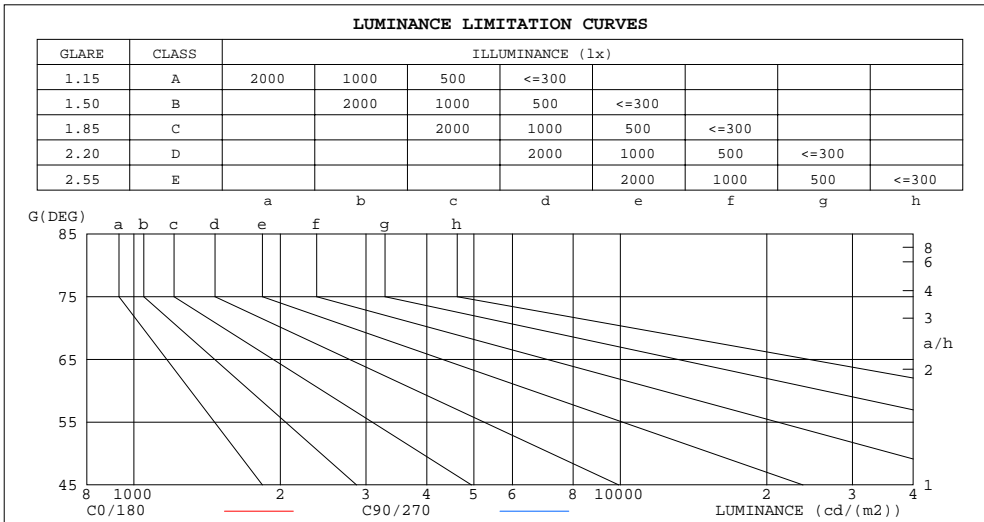
%lum = 89.2%  
%lamp = 89.2%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2DEG  
Operators:Hill  
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:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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	5602619	561343
80	3638560	694381
75	2900023	690658
70	2615919	680507
65	2415801	674380
60	3165927	742894
55	6831433	915956
50	8091756	2758128
45	8389210	3886625

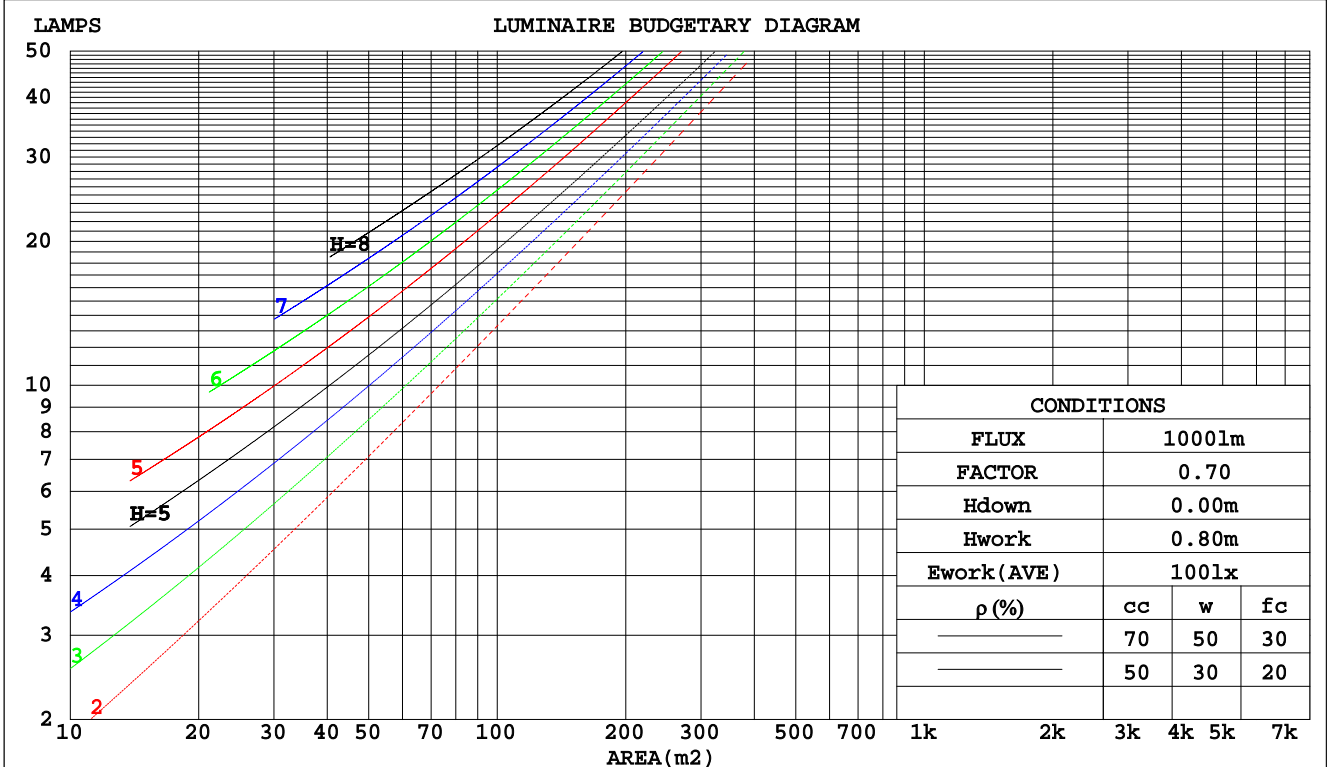
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:Hill  
 Test Date:2017-08-07

$\gamma$  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:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.06	1.03	.99	1.04	1.01	.98	.99	.97	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.78	.72	.83	.77	.71	.80	.75	.70	.77	.73	.69	.75	.71	.67	.65
4.0	.76	.69	.63	.75	.68	.62	.72	.66	.61	.70	.65	.60	.68	.63	.59	.57
5.0	.69	.61	.55	.68	.60	.55	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7.0	.57	.49	.43	.56	.49	.43	.55	.48	.43	.53	.47	.43	.52	.46	.42	.40
8.0	.52	.45	.39	.52	.44	.39	.50	.44	.39	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: Hill  
 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:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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	.261	.149	.047	.254	.145	.046	.240	.138	.044	.228	.131	.042	.216	.125	.040	
2.0	.248	.136	.042	.242	.133	.041	.230	.128	.040	.219	.123	.038	.209	.118	.037	
3.0	.233	.124	.037	.228	.122	.037	.217	.118	.036	.208	.114	.035	.199	.110	.034	
4.0	.219	.114	.033	.214	.112	.033	.205	.109	.032	.196	.105	.032	.188	.102	.031	
5.0	.205	.105	.030	.201	.103	.030	.193	.100	.030	.185	.098	.029	.178	.095	.029	
6.0	.193	.097	.028	.189	.095	.027	.182	.093	.027	.175	.091	.027	.168	.089	.026	
7.0	.182	.090	.025	.178	.089	.025	.172	.087	.025	.165	.085	.025	.160	.083	.024	
8.0	.171	.084	.024	.168	.083	.023	.162	.081	.023	.157	.079	.023	.151	.078	.023	
9.0	.162	.078	.022	.159	.077	.022	.154	.076	.022	.149	.074	.021	.144	.073	.021	
10.0	.153	.073	.020	.151	.073	.020	.146	.071	.020	.141	.070	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.185	.165	.146	.158	.141	.126	.108	.097	.087	.062	.056	.051	.020	.018	.016	
2.0	.175	.140	.112	.150	.121	.097	.103	.084	.067	.059	.049	.039	.019	.016	.013	
3.0	.166	.122	.088	.142	.106	.076	.098	.073	.053	.056	.043	.031	.018	.014	.010	
4.0	.158	.109	.071	.135	.094	.062	.093	.065	.044	.054	.038	.026	.017	.012	.008	
5.0	.150	.098	.059	.129	.085	.052	.089	.059	.036	.052	.035	.022	.017	.011	.007	
6.0	.144	.089	.051	.124	.077	.044	.085	.054	.031	.049	.032	.019	.016	.010	.006	
7.0	.137	.082	.044	.118	.072	.038	.082	.050	.027	.047	.030	.016	.015	.010	.005	
8.0	.131	.077	.039	.113	.067	.034	.078	.047	.024	.046	.028	.014	.015	.009	.005	
9.0	.126	.072	.035	.108	.062	.031	.075	.044	.022	.044	.026	.013	.014	.008	.004	
10.0	.121	.068	.032	.104	.059	.028	.072	.041	.020	.042	.024	.012	.014	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:Hill  
 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:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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	41.3	42.6	41.5	42.8	43.0	37.9	39.2	38.2	39.4	39.7
3H	41.7	42.9	42.0	43.1	43.4	37.9	39.1	38.2	39.4	39.6
4H	42.0	43.2	42.3	43.4	43.7	37.9	39.1	38.3	39.4	39.6
6H	42.5	43.6	42.9	43.9	44.2	38.0	39.1	38.3	39.4	39.7
8H	42.9	43.9	43.2	44.2	44.5	38.0	39.1	38.4	39.4	39.7
12H	43.2	44.3	43.6	44.6	44.9	38.0	39.0	38.4	39.3	39.6
4H 2H	41.1	42.3	41.4	42.5	42.8	38.0	39.1	38.3	39.4	39.7
3H	41.6	42.7	42.0	43.0	43.3	38.2	39.2	38.5	39.5	39.8
4H	42.2	43.1	42.5	43.4	43.7	38.3	39.2	38.7	39.6	39.9
6H	42.9	43.7	43.3	44.1	44.4	38.5	39.3	38.9	39.7	40.1
8H	43.3	44.1	43.8	44.5	44.9	38.6	39.3	39.0	39.7	40.1
12H	43.9	44.6	44.3	45.0	45.4	38.6	39.3	39.1	39.7	40.1
8H 4H	42.1	42.9	42.6	43.3	43.7	38.5	39.3	39.0	39.7	40.1
6H	43.0	43.6	43.4	44.0	44.5	38.9	39.5	39.3	39.9	40.4
8H	43.5	44.1	44.0	44.5	45.0	39.1	39.6	39.5	40.1	40.5
12H	44.2	44.7	44.7	45.2	45.7	39.2	39.7	39.7	40.2	40.7
12H 4H	42.1	42.8	42.5	43.2	43.6	38.6	39.3	39.0	39.7	40.1
6H	43.0	43.5	43.4	44.0	44.4	39.0	39.5	39.4	40.0	40.4
8H	43.5	44.0	44.0	44.5	45.0	39.2	39.7	39.7	40.1	40.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 1.5 / - 2.2				
1.5H	+ 1.3 / - 1.3					+ 1.6 / - 2.0				
2.0H	+ 2.8 / - 1.9					+ 2.2 / - 2.3				

CIE Pub.117 Corrected 1871 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.2)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:Hill  
 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:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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

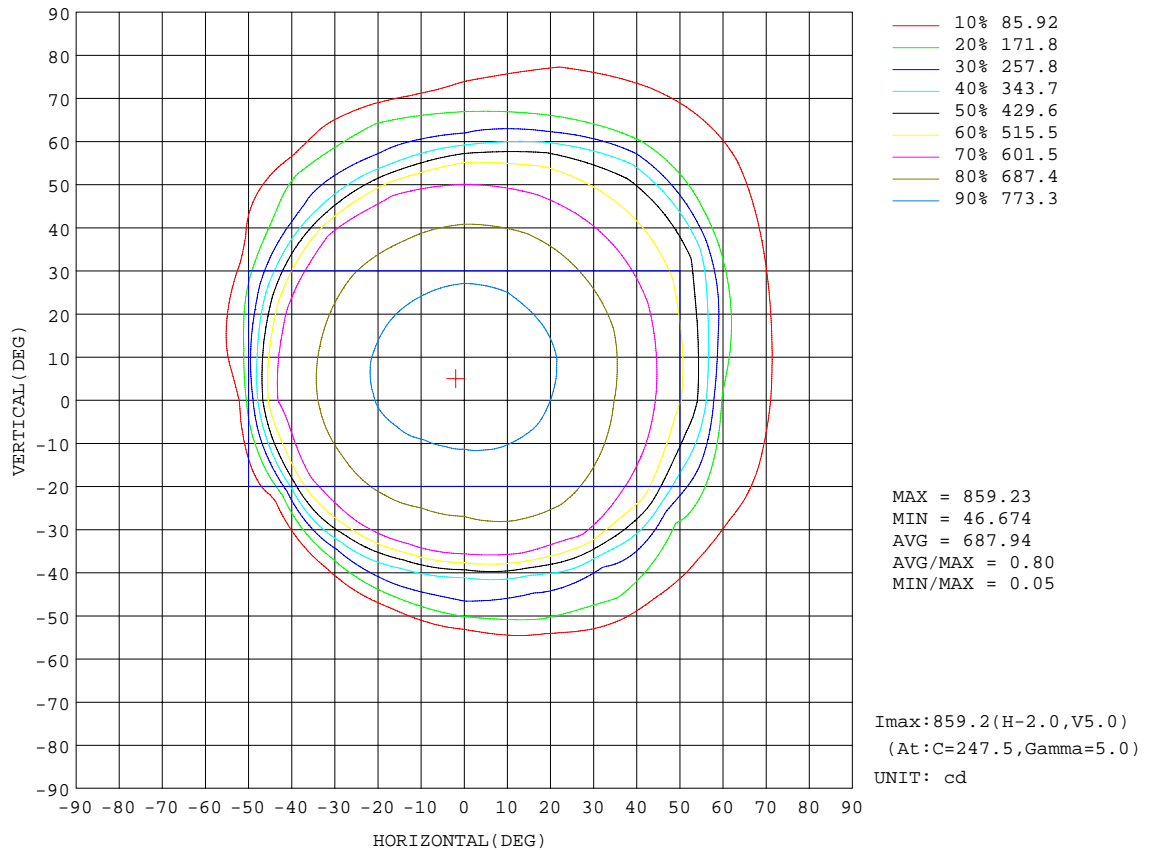
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	64	54	48	64	54	48	63	53	48	42
0.80	75	64	58	74	64	58	72	63	58	51
1.00	83	73	67	82	73	67	80	74	66	60
1.25	89	81	75	88	80	74	85	78	73	67
1.50	94	86	80	92	85	79	89	83	78	72
2.00	99	92	87	98	91	86	94	89	85	78
2.50	102	96	91	101	95	90	97	92	88	81
3.00	105	99	95	103	98	94	99	95	91	84
4.00	108	104	100	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	103	100	98	89
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:25.2DEG  
 Operators:Hill  
 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:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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: Hill  
 Test Date: 2017-08-07

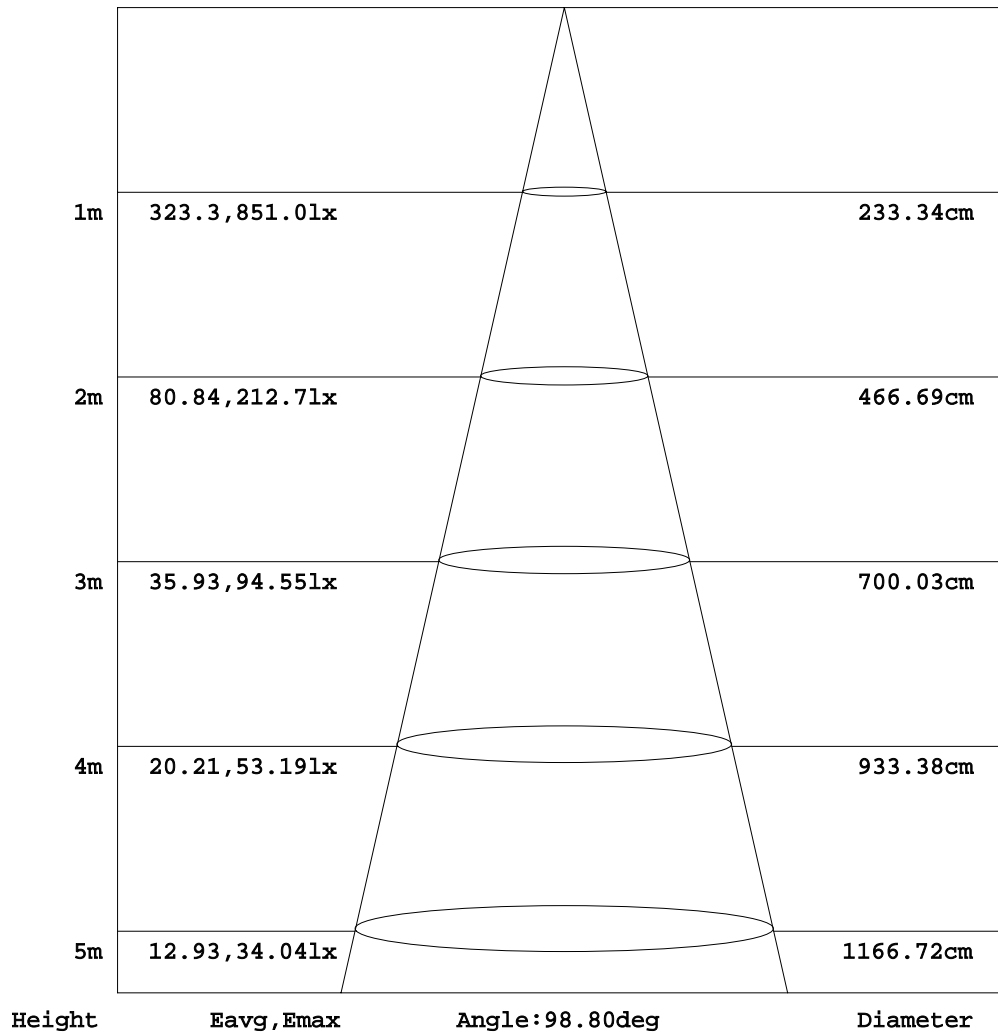
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 45%  
 Test Distance: 2.447m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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:1443 lm



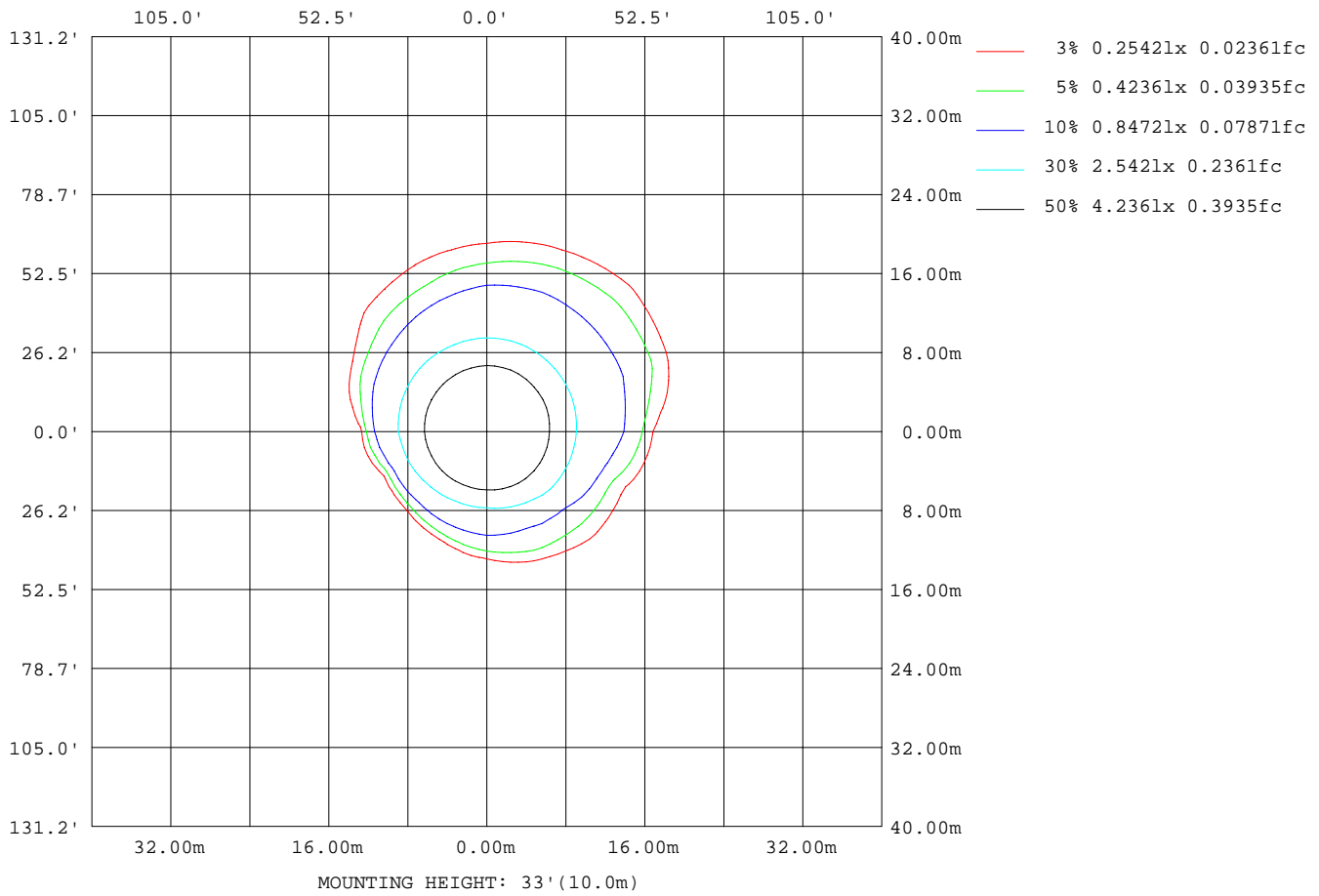
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:Hill  
 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:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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:Hill  
 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:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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

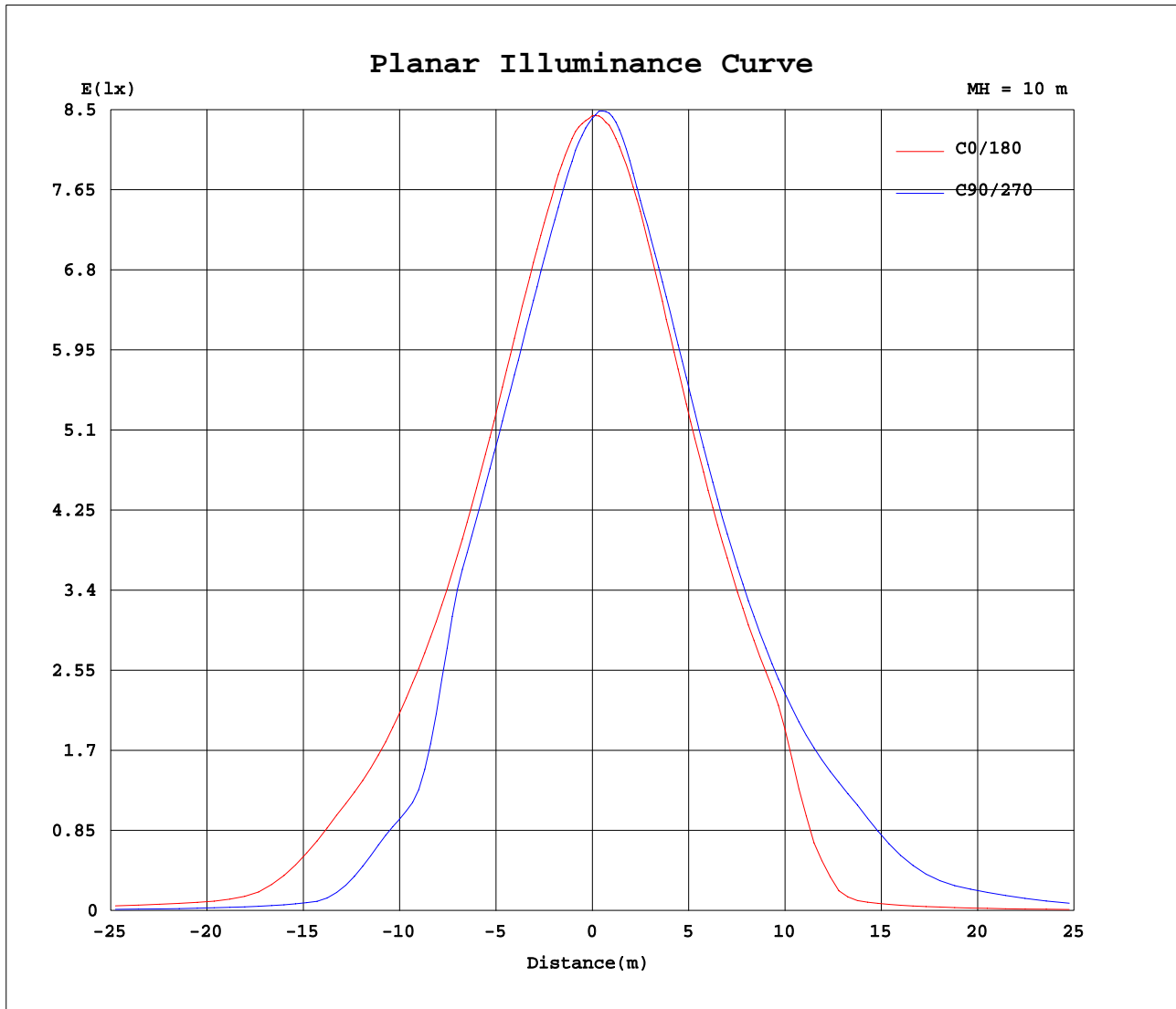
AvgL	cd/m2
L_0~180(65)av	1520598
L_0~180(75)av	1676220
L_0~180(85)av	2832786
L_90~270(65)av	2853110
L_90~270(75)av	1936862
L_90~270(85)av	3503080
L_45(65)av	2562946
L_45(75)av	1642881
L_45(85)av	3028933

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:Hill  
 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: Hill  
 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:120.0V I:0.1692A P:20.06W PF:0.9883 Lamp Flux:1870.52x1 lm		
NAME: ASD-LSR-2050-AP	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	843	843	843	843	843	843	843	843	843	843	843	843	843	843	843	843			
5	835	829	825	820	818	818	823	830	842	851	858	860	858	854	848	843			
10	817	807	796	788	783	783	789	804	827	841	848	850	848	843	838	831			
15	794	781	771	762	754	753	763	780	806	823	831	829	823	820	816	810			
20	772	762	751	737	725	724	736	752	778	796	804	806	806	802	796	789			
25	745	738	730	718	699	698	709	723	746	762	774	781	785	781	773	765			
30	718	710	704	687	669	666	678	692	716	731	742	752	759	757	746	734			
35	685	676	671	649	621	617	641	656	680	694	709	719	729	729	716	706			
40	645	627	617	493	395	394	466	580	637	654	675	683	696	695	681	669			
45	592	555	401	279	275	259	229	281	543	609	638	642	653	653	638	622			
50	519	350	235	229	178	96.1	53.8	59.0	199	396	521	597	603	600	583	565			
55	391	169	179	117	52.6	37.7	30.9	32.4	47.5	185	286	403	521	538	520	505			
60	158	99.5	78.2	52.0	37.2	27.8	22.6	24.2	34.4	57.3	209	252	311	408	438	411			
65	102	76.6	57.6	41.4	28.6	19.8	14.6	16.3	26.6	40.1	86.2	188	213	232	275	195			
70	89.3	64.6	46.8	33.3	23.3	14.5	7.50	7.84	19.4	32.4	49.7	87.7	109	128	131	103			
75	74.9	55.1	35.1	28.2	17.9	8.96	1.97	0.46	11.8	24.7	40.4	59.4	82.3	96.7	92.6	86.4			
80	63.1	41.6	20.7	22.0	12.1	2.56	0.36	0.47	6.37	19.3	31.6	47.6	68.1	80.6	79.2	75.4			
85	48.8	23.0	9.68	15.0	4.90	0.31	0.40	0.50	0.62	12.7	26.9	37.1	56.2	68.0	68.6	64.0			
90	32.2	5.75	6.14	7.17	0.28	0.32	0.43	0.53	0.46	2.40	20.5	31.7	42.8	54.0	55.2	49.1			
95	15.5	1.31	2.98	0.28	0.26	0.34	0.45	0.56	0.48	0.10	7.77	24.6	32.4	37.5	38.9	32.8			
100	7.67	0.59	0.35	0.20	0.26	0.36	0.48	0.58	0.48	0.08	2.67	16.9	23.5	23.5	21.8	16.1			
105	1.50	0.10	0.16	0.23	0.29	0.39	0.51	0.61	0.48	0.10	0.14	8.86	14.6	14.2	8.30	2.25			
110	0.16	0.12	0.20	0.25	0.30	0.40	0.48	0.49	0.38	0.13	0.11	1.57	6.26	5.83	0.85	0.09			
115	0.14	0.17	0.24	0.29	0.33	0.37	0.45	0.57	0.46	0.17	0.16	0.14	0.41	0.31	0.11	0.08			
120	0.20	0.22	0.28	0.32	0.34	0.38	0.51	0.64	0.56	0.23	0.23	0.40	0.20	0.15	0.11	0.12			
125	0.26	0.28	0.34	0.36	0.39	0.42	0.44	0.67	0.61	0.29	0.29	0.42	0.33	0.20	0.14	0.16			
130	0.35	0.37	0.42	0.45	0.48	0.47	0.45	0.71	0.64	0.35	0.33	0.48	0.37	0.26	0.21	0.21			
135	0.47	0.48	0.53	0.56	0.58	0.57	0.56	0.78	0.70	0.43	0.42	0.56	0.43	0.33	0.28	0.28			
140	0.62	0.64	0.69	0.71	0.72	0.72	0.71	0.87	0.76	0.52	0.49	0.63	0.51	0.42	0.37	0.36			
145	0.83	0.86	0.90	0.92	0.93	0.92	0.92	1.04	0.83	0.64	0.56	0.72	0.62	0.53	0.48	0.47			
150	1.05	1.08	1.10	1.12	1.12	1.11	1.10	1.20	0.87	0.73	0.66	0.80	0.72	0.64	0.59	0.57			
155	1.22	1.25	1.27	1.27	1.26	1.25	1.22	1.27	0.90	0.86	0.80	0.89	0.83	0.76	0.72	0.69			
160	1.36	1.37	1.38	1.38	1.37	1.36	1.33	1.31	0.79	0.80	0.83	0.86	0.88	0.85	0.80	0.77			
165	1.35	1.35	1.36	1.35	1.34	1.33	1.32	1.30	0.83	0.83	0.83	0.84	0.87	0.87	0.86	0.82			
170	1.26	1.26	1.26	1.25	1.25	1.24	1.23	1.22	0.84	0.84	0.85	0.84	0.85	0.86	0.85	0.83			
175	1.21	1.21	1.20	1.19	1.19	1.19	1.18	1.17	0.92	0.92	0.92	0.92	0.92	0.92	0.91	0.91			
180	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.07	1.07	1.07	1.06	1.06	1.05	1.05	1.05			

C Range: 0 - 360DEG  
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