

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934455

Luminaire Tested: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934455
REPORT IS A COMBINATION OF REPORTS P933697 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-400K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

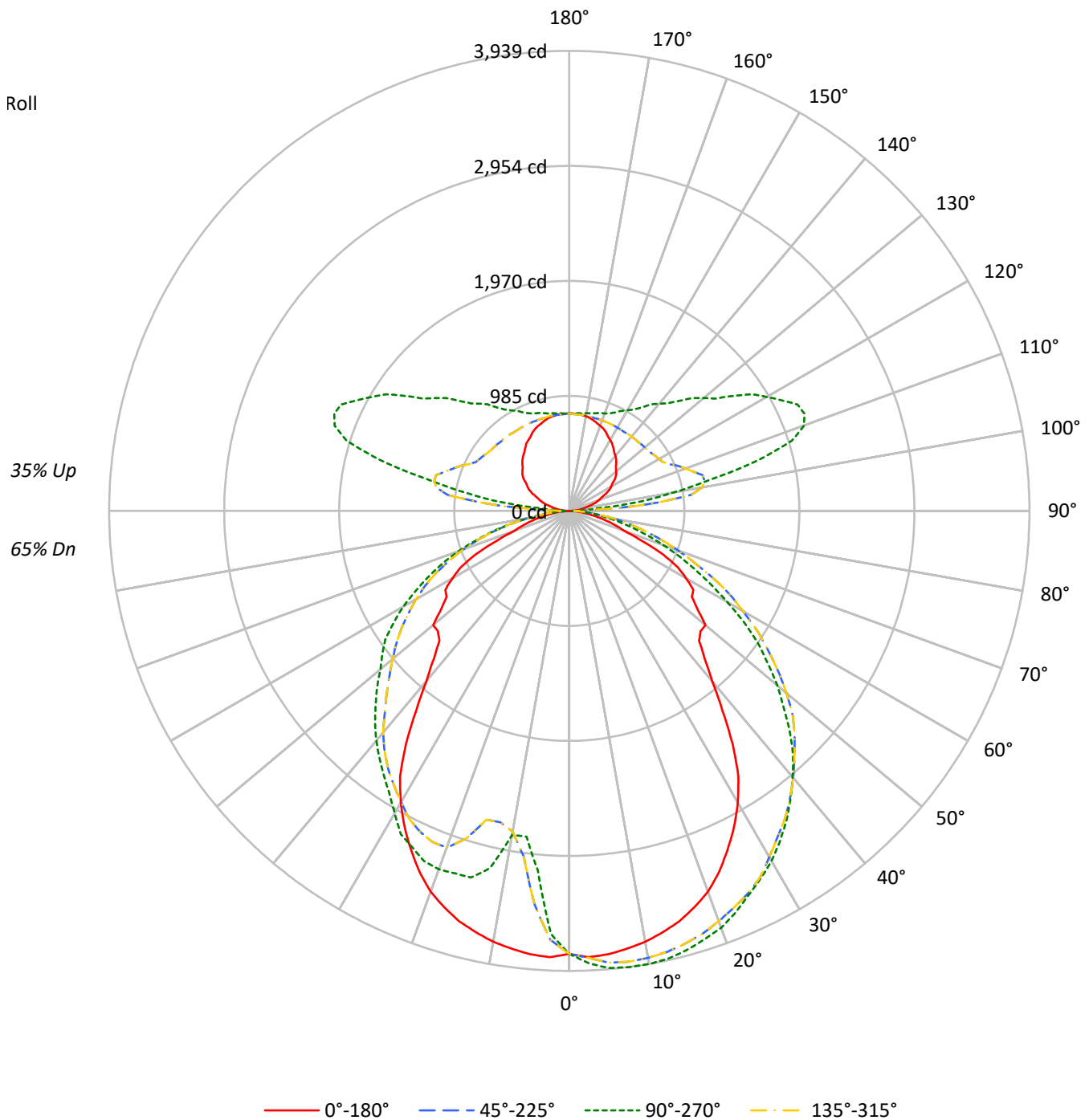
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15242.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 135.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P934455

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11730	11730	11730	11730
5°	11822	11841	11822	9310
10°	11747	11664	11747	8339
15°	11624	11411	11624	9528
20°	11385	11112	11385	9548
25°	10892	10675	10892	9346
30°	10253	10312	10253	8902
35°	9146	9854	9146	8414
40°	7625	9314	7625	8044
45°	6817	8682	6817	7620
50°	7248	7929	7248	7195
55°	6826	7117	6826	6948
60°	7045	6045	7045	6364
65°	6398	4997	6398	5585
70°	4441	3982	4441	4682
75°	3909	2944	3909	3525
80°	3174	1946	3174	2119
85°	1860	1031	1860	876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10441 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.3	2.2
10°-20°	971.9	6.4
20°-30°	1502.5	9.9
30°-40°	1793.6	11.8
40°-50°	1804.1	11.8
50°-60°	1569.8	10.3
60°-70°	1113.0	7.3
70°-80°	588.8	3.9
80°-90°	149.8	1.0
90°-100°	406.5	2.7
100°-110°	1068.7	7.0
110°-120°	1108.1	7.3
120°-130°	888.9	5.8
130°-140°	697.4	4.6
140°-150°	535.3	3.5
150°-160°	385.5	2.5
160°-170°	235.9	1.5
170°-180°	79.7	0.5
0°-30°	2816.7	18.5
0°-40°	4610.3	30.2
0°-60°	7984.3	52.4
0°-90°	9835.9	64.5
90°-120°	2583.3	16.9
90°-150°	4704.9	30.9
90°-180°	5406.0	35.5
0°-180°	15242.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3792	3792	3792	3792	3792	
5°	3810	3929	3810	3089	3810	361
15°	3638	3893	3638	3250	3638	1024
25°	3204	3631	3204	3179	3204	1471
35°	2436	3240	2436	2766	2436	1507
45°	1572	2669	1572	2343	1572	1259
55°	1281	1970	1281	1923	1281	1177
65°	890	1188	890	1328	890	850
75°	337	563	337	674	337	355
85°	57	144	57	122	57	78
90°	6	21	6	21	6	7
95°	54	246	54	246	54	60
105°	192	1674	192	1674	192	204
115°	342	2155	342	2155	342	338
125°	476	1716	476	1716	476	422
135°	567	1332	567	1332	567	439
145°	658	1080	658	1080	658	412
155°	743	930	743	930	743	342
165°	802	866	802	866	802	226
175°	834	840	834	840	834	79
180°	834	834	834	834	834	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3824.6	3824.6	3846.1	3853.3	3853.3	3842.5	3831.7	3842.5	3874.8	3885.6	3882.0
5°	3810.3	3839.0	3878.4	3885.6	3892.7	3889.2	3882.0	3889.2	3925.0	3932.2	3935.8
7.5°	3781.5	3835.3	3885.6	3896.4	3907.1	3896.4	3892.7	3900.0	3935.8	3943.0	3943.0
10°	3745.6	3821.0	3878.4	3885.6	3896.4	3885.6	3885.6	3900.0	3935.8	3943.0	3946.6
12.5°	3695.4	3799.5	3853.3	3860.5	3874.8	3871.2	3867.7	3882.0	3917.9	3925.0	3925.0
15°	3638.0	3760.0	3810.3	3817.4	3842.5	3835.3	3835.3	3849.7	3889.2	3900.0	3896.4
17.5°	3559.1	3709.8	3767.2	3778.0	3795.9	3792.3	3795.9	3810.3	3846.1	3853.3	3856.9
20°	3469.4	3641.6	3709.8	3720.6	3738.5	3738.5	3738.5	3756.4	3792.3	3806.7	3806.7
22.5°	3347.4	3569.9	3641.6	3648.8	3670.3	3670.3	3677.5	3702.6	3734.9	3738.5	3738.5
25°	3203.9	3490.9	3551.9	3573.5	3594.9	3605.7	3616.5	3630.9	3641.6	3638.0	3641.6
27.5°	3053.2	3390.5	3469.4	3483.8	3512.5	3523.2	3537.6	3541.2	3544.7	3555.5	3548.3
30°	2884.6	3250.5	3368.9	3383.3	3429.9	3437.1	3422.8	3429.9	3447.8	3455.1	3462.2
32.5°	2694.4	3042.4	3264.9	3297.1	3340.2	3318.7	3315.2	3325.9	3354.6	3354.6	3361.8
35°	2436.2	2881.0	3168.1	3196.8	3229.0	3203.9	3218.2	3221.8	3239.8	3250.5	3247.0
37.5°	2152.7	2741.1	3067.6	3089.1	3114.2	3081.9	3103.4	3114.2	3128.6	3121.4	3121.4
40°	1901.6	2522.2	2949.2	2963.5	2985.0	2960.0	2981.4	2988.7	2995.8	2988.7	2985.0
42.5°	1715.0	2281.8	2823.6	2841.6	2827.2	2845.1	2852.3	2866.6	2855.9	2841.6	2841.6
45°	1571.5	2217.3	2687.2	2708.8	2687.2	2715.9	2726.7	2726.7	2694.4	2687.2	2683.7
47.5°	1524.8	2088.1	2550.9	2550.9	2540.2	2576.0	2594.0	2568.8	2536.5	2525.9	2525.9
50°	1521.2	1944.6	2364.4	2350.0	2400.2	2443.3	2425.4	2400.2	2375.1	2335.7	2335.7
52.5°	1381.3	1768.8	2124.0	2177.8	2256.7	2281.8	2253.1	2228.1	2185.0	2167.0	2152.7
55°	1280.8	1585.8	1905.1	2012.7	2095.3	2127.6	2073.7	2048.7	1984.0	1973.3	1966.1
57.5°	1259.4	1320.3	1704.2	1840.6	1941.0	1937.4	1905.1	1858.5	1804.6	1793.9	1790.3
60°	1155.3	954.3	1488.9	1650.4	1754.5	1743.7	1715.0	1671.9	1621.7	1614.5	1607.3
62.5°	1047.6	692.4	1245.0	1428.0	1575.1	1571.5	1546.4	1481.7	1445.9	1428.0	1413.6
65°	889.8	581.2	886.2	1187.6	1399.2	1406.4	1352.6	1306.0	1266.5	1245.0	1241.3
67.5°	678.1	473.6	599.1	990.2	1230.7	1223.4	1155.3	1133.7	1083.5	1072.7	1051.3
70°	502.3	315.7	416.2	803.7	1065.6	1047.6	993.8	968.7	922.1	896.9	882.6
72.5°	416.2	254.7	304.9	624.3	896.9	875.4	828.8	800.1	760.6	739.1	724.8
75°	337.3	269.1	233.2	462.8	728.3	714.0	670.9	642.2	609.9	581.2	584.8
77.5°	247.6	251.2	186.6	340.9	577.7	556.1	531.0	495.1	480.7	452.0	452.0
80°	186.6	197.3	139.9	233.2	416.2	416.2	394.7	369.6	344.4	330.1	330.1
82.5°	125.5	125.5	104.0	147.1	283.4	272.6	258.3	251.2	236.8	229.6	229.6
85°	57.4	71.8	64.5	89.7	154.2	161.5	161.5	154.2	150.7	143.5	147.1
87.5°	17.9	32.3	39.5	50.2	78.9	82.6	86.1	86.1	86.1	89.7	89.7
90°	5.6	10.0	14.6	15.7	24.6	36.6	42.5	37.8	28.3	21.3	21.3
92.5°	22.4	60.4	98.5	108.0	151.8	210.3	239.5	209.9	150.7	106.4	102.1
95°	53.8	123.4	193.1	210.4	373.7	591.3	700.1	624.7	474.0	361.0	348.1
97.5°	92.9	154.3	215.8	231.2	503.4	866.2	1047.7	1000.1	904.8	833.4	809.0
100°	123.1	178.9	234.5	248.5	550.5	953.2	1154.6	1158.1	1165.0	1170.3	1141.2
102.5°	148.9	200.9	252.8	265.8	572.2	980.7	1184.9	1245.5	1366.9	1457.9	1433.1
105°	192.5	236.5	280.5	291.6	588.2	983.7	1181.5	1317.6	1589.6	1793.8	1780.4
107.5°	237.3	278.3	319.4	329.7	591.3	940.0	1114.3	1304.2	1683.8	1968.5	1971.7
110°	267.6	304.6	341.7	350.9	586.7	901.2	1058.4	1270.6	1694.9	2013.2	2027.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	297.2	332.5	367.8	376.6	586.9	867.2	1007.4	1224.6	1658.9	1984.7	2006.0
115°	342.0	374.6	407.1	415.3	592.3	828.4	946.4	1155.6	1574.0	1887.8	1917.5
117.5°	386.1	415.7	445.3	452.8	603.3	804.1	904.4	1093.3	1470.8	1754.0	1786.9
120°	411.9	439.8	467.6	474.6	612.3	795.9	887.7	1060.2	1405.2	1664.0	1695.9
122.5°	437.1	465.3	493.3	500.4	625.2	791.6	874.7	1030.1	1340.8	1573.8	1605.3
125°	475.8	501.4	527.0	533.4	642.6	788.0	860.8	992.8	1256.6	1454.6	1483.6
127.5°	507.1	533.0	558.8	565.3	659.9	786.0	849.0	962.4	1188.9	1358.9	1383.4
130°	523.9	551.8	579.6	586.5	672.5	787.2	844.6	945.4	1147.2	1298.5	1321.1
132.5°	541.2	569.1	597.0	603.9	682.9	788.0	840.6	931.0	1111.5	1246.9	1267.2
135°	567.0	592.3	617.7	624.0	694.0	787.3	833.9	909.6	1060.8	1174.3	1191.7
137.5°	593.2	618.4	643.6	649.8	710.8	792.2	832.8	896.7	1024.6	1120.5	1134.8
140°	615.1	638.2	661.3	667.1	721.1	792.9	828.9	884.1	994.6	1077.4	1090.8
142.5°	631.9	653.3	674.7	680.0	729.7	795.8	828.9	877.4	974.4	1047.2	1058.7
145°	657.6	676.2	694.9	699.6	740.9	795.8	823.3	863.0	942.4	1001.8	1010.5
147.5°	683.4	701.5	719.7	724.2	757.3	801.3	823.3	854.6	917.0	963.8	971.1
150°	700.1	716.5	733.0	737.1	765.9	804.1	823.3	849.7	902.4	941.9	947.8
152.5°	717.5	729.9	742.4	745.5	771.5	806.0	823.3	845.9	890.9	924.6	929.1
155°	743.2	752.5	761.7	764.0	783.8	810.1	823.3	841.3	877.0	903.9	906.8
157.5°	762.3	771.3	780.2	782.4	796.1	814.3	823.3	837.3	865.1	886.0	888.1
160°	775.2	782.1	789.1	790.8	801.7	816.1	823.3	835.3	859.1	877.0	878.2
162.5°	788.0	793.3	798.5	799.8	807.7	818.1	823.3	833.4	853.5	868.6	869.7
165°	802.1	806.8	811.5	812.7	816.2	821.0	823.3	830.6	845.0	855.7	856.9
167.5°	814.9	817.1	819.4	819.9	822.9	826.9	828.9	833.6	843.1	850.1	850.7
170°	823.3	825.5	827.8	828.3	828.5	828.8	828.9	833.6	843.1	850.1	850.1
172.5°	827.8	828.2	828.8	828.9	828.9	828.9	828.9	832.6	840.1	845.7	845.2
175°	833.9	833.9	833.9	833.9	832.2	829.9	828.9	831.2	836.0	839.5	839.5
177.5°	833.9	833.9	833.9	833.9	832.7	830.9	830.0	831.9	835.6	838.5	837.9
180°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3889.2	3878.4	3889.2	3882.0	3885.6	3874.8	3842.5	3831.7	3842.5	3853.3	3853.3
5°	3935.8	3928.7	3935.8	3935.8	3932.2	3925.0	3889.2	3882.0	3889.2	3892.7	3885.6
7.5°	3950.1	3939.4	3950.1	3943.0	3943.0	3935.8	3900.0	3892.7	3896.4	3907.1	3896.4
10°	3950.1	3939.4	3950.1	3946.6	3943.0	3935.8	3900.0	3885.6	3885.6	3896.4	3885.6
12.5°	3932.2	3925.0	3932.2	3925.0	3925.0	3917.9	3882.0	3867.7	3871.2	3874.8	3860.5
15°	3903.5	3892.7	3903.5	3896.4	3900.0	3889.2	3849.7	3835.3	3835.3	3842.5	3817.4
17.5°	3860.5	3846.1	3860.5	3856.9	3853.3	3846.1	3810.3	3795.9	3792.3	3795.9	3778.0
20°	3810.3	3799.5	3810.3	3806.7	3806.7	3792.3	3756.4	3738.5	3738.5	3738.5	3720.6
22.5°	3731.3	3720.6	3731.3	3738.5	3738.5	3734.9	3702.6	3677.5	3670.3	3670.3	3648.8
25°	3641.6	3630.9	3641.6	3641.6	3638.0	3641.6	3630.9	3616.5	3605.7	3594.9	3573.5
27.5°	3555.5	3548.3	3555.5	3548.3	3555.5	3544.7	3541.2	3537.6	3523.2	3512.5	3483.8
30°	3469.4	3462.2	3469.4	3462.2	3455.1	3447.8	3429.9	3422.8	3437.1	3429.9	3383.3
32.5°	3361.8	3354.6	3361.8	3361.8	3354.6	3354.6	3325.9	3315.2	3318.7	3340.2	3297.1
35°	3250.5	3239.8	3250.5	3247.0	3250.5	3239.8	3221.8	3218.2	3203.9	3229.0	3196.8
37.5°	3121.4	3110.6	3121.4	3121.4	3121.4	3128.6	3114.2	3103.4	3081.9	3114.2	3089.1
40°	2988.7	2974.3	2988.7	2985.0	2988.7	2995.8	2988.7	2981.4	2960.0	2985.0	2963.5
42.5°	2838.0	2834.3	2838.0	2841.6	2841.6	2855.9	2866.6	2852.3	2845.1	2827.2	2841.6
45°	2676.5	2669.3	2676.5	2683.7	2687.2	2694.4	2726.7	2726.7	2715.9	2687.2	2708.8
47.5°	2504.3	2486.4	2504.3	2525.9	2525.9	2536.5	2568.8	2594.0	2576.0	2540.2	2550.9
50°	2321.3	2324.9	2321.3	2335.7	2335.7	2375.1	2400.2	2425.4	2443.3	2400.2	2350.0
52.5°	2141.9	2138.4	2141.9	2152.7	2167.0	2185.0	2228.1	2253.1	2281.8	2256.7	2177.8
55°	1962.5	1969.7	1962.5	1966.1	1973.3	1984.0	2048.7	2073.7	2127.6	2095.3	2012.7
57.5°	1783.2	1772.4	1783.2	1790.3	1793.9	1804.6	1858.5	1905.1	1937.4	1941.0	1840.6
60°	1575.1	1560.7	1575.1	1607.3	1614.5	1621.7	1671.9	1715.0	1743.7	1754.5	1650.4
62.5°	1392.0	1367.0	1392.0	1413.6	1428.0	1445.9	1481.7	1546.4	1571.5	1575.1	1428.0
65°	1198.3	1187.6	1198.3	1241.3	1245.0	1266.5	1306.0	1352.6	1406.4	1399.2	1187.6
67.5°	1022.6	1022.6	1022.6	1051.3	1072.7	1083.5	1133.7	1155.3	1223.4	1230.7	990.2
70°	861.1	857.5	861.1	882.6	896.9	922.1	968.7	993.8	1047.6	1065.6	803.7
72.5°	706.8	703.2	706.8	724.8	739.1	760.6	800.1	828.8	875.4	896.9	624.3
75°	570.4	563.3	570.4	584.8	581.2	609.9	642.2	670.9	714.0	728.3	462.8
77.5°	437.7	437.7	437.7	452.0	452.0	480.7	495.1	531.0	556.1	577.7	340.9
80°	326.5	322.9	326.5	330.1	330.1	344.4	369.6	394.7	416.2	416.2	233.2
82.5°	229.6	222.4	229.6	229.6	229.6	236.8	251.2	258.3	272.6	283.4	147.1
85°	143.5	143.5	143.5	147.1	143.5	150.7	154.2	161.5	161.5	154.2	89.7
87.5°	93.3	89.7	93.3	89.7	89.7	86.1	86.1	86.1	82.6	78.9	50.2
90°	21.3	21.3	21.3	21.3	21.3	28.3	37.8	42.5	36.6	24.6	15.7
92.5°	85.2	68.2	85.2	102.1	106.4	150.7	209.9	239.5	210.3	151.8	108.0
95°	296.9	245.7	296.9	348.1	361.0	474.0	624.7	700.1	591.3	373.7	210.4
97.5°	711.5	614.0	711.5	809.0	833.4	904.8	1000.1	1047.7	866.2	503.4	231.2
100°	1025.1	909.0	1025.1	1141.2	1170.3	1165.0	1158.1	1154.6	953.2	550.5	248.5
102.5°	1333.6	1234.1	1333.6	1433.1	1457.9	1366.9	1245.5	1184.9	980.7	572.2	265.8
105°	1727.0	1673.5	1727.0	1780.4	1793.8	1589.6	1317.6	1181.5	983.7	588.2	291.6
107.5°	1984.6	1997.5	1984.6	1971.7	1968.5	1683.8	1304.2	1114.3	940.0	591.3	329.7
110°	2082.8	2138.5	2082.8	2027.1	2013.2	1694.9	1270.6	1058.4	901.2	586.7	350.9



TEST NUMBER: P934455
 CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2091.6	2177.2	2091.6	2006.0	1984.7	1658.9	1224.6	1007.4	867.2	586.9	376.6
115°	2036.2	2154.8	2036.2	1917.5	1887.8	1574.0	1155.6	946.4	828.4	592.3	415.3
117.5°	1918.5	2050.1	1918.5	1786.9	1754.0	1470.8	1093.3	904.4	804.1	603.3	452.8
120°	1823.8	1951.6	1823.8	1695.9	1664.0	1405.2	1060.2	887.7	795.9	612.3	474.6
122.5°	1731.5	1857.6	1731.5	1605.3	1573.8	1340.8	1030.1	874.7	791.6	625.2	500.4
125°	1599.8	1716.0	1599.8	1483.6	1454.6	1256.6	992.8	860.8	788.0	642.6	533.4
127.5°	1481.4	1579.4	1481.4	1383.4	1358.9	1188.9	962.4	849.0	786.0	659.9	565.3
130°	1411.7	1502.2	1411.7	1321.1	1298.5	1147.2	945.4	844.6	787.2	672.5	586.5
132.5°	1348.3	1429.4	1348.3	1267.2	1246.9	1111.5	931.0	840.6	788.0	682.9	603.9
135°	1261.6	1331.5	1261.6	1191.7	1174.3	1060.8	909.6	833.9	787.3	694.0	624.0
137.5°	1192.0	1249.2	1192.0	1134.8	1120.5	1024.6	896.7	832.8	792.2	710.8	649.8
140°	1144.2	1197.7	1144.2	1090.8	1077.4	994.6	884.1	828.9	792.9	721.1	667.1
142.5°	1104.7	1150.7	1104.7	1058.7	1047.2	974.4	877.4	828.9	795.8	729.7	680.0
145°	1045.4	1080.2	1045.4	1010.5	1001.8	942.4	863.0	823.3	795.8	740.9	699.6
147.5°	999.8	1028.7	999.8	971.1	963.8	917.0	854.6	823.3	801.3	757.3	724.2
150°	971.1	994.6	971.1	947.8	941.9	902.4	849.7	823.3	804.1	765.9	737.1
152.5°	946.7	964.4	946.7	929.1	924.6	890.9	845.9	823.3	806.0	771.5	745.5
155°	918.6	930.2	918.6	906.8	903.9	877.0	841.3	823.3	810.1	783.8	764.0
157.5°	896.2	904.4	896.2	888.1	886.0	865.1	837.3	823.3	814.3	796.1	782.4
160°	883.0	887.7	883.0	878.2	877.0	859.1	835.3	823.3	816.1	801.7	790.8
162.5°	874.2	878.7	874.2	869.7	868.6	853.5	833.4	823.3	818.1	807.7	799.8
165°	861.7	866.4	861.7	856.9	855.7	845.0	830.6	823.3	821.0	816.2	812.7
167.5°	852.7	854.7	852.7	850.7	850.1	843.1	833.6	828.9	826.9	822.9	819.9
170°	850.1	850.1	850.1	850.1	850.1	843.1	833.6	828.9	828.8	828.5	828.3
172.5°	843.5	841.8	843.5	845.2	845.7	840.1	832.6	828.9	828.9	828.9	828.9
175°	839.5	839.5	839.5	839.5	839.5	836.0	831.2	828.9	829.9	832.2	833.9
177.5°	835.9	833.9	835.9	837.9	838.5	835.6	831.9	830.0	830.9	832.7	833.9
180°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9



TEST NUMBER: P934455

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3846.1	3824.6	3824.6	3788.7	3774.3	3763.6	3745.6	3691.9	3677.5	3663.1	3684.6
5°	3878.4	3839.0	3810.3	3745.6	3691.9	3670.3	3602.2	3473.0	3386.8	3322.3	3286.5
7.5°	3885.6	3835.3	3781.5	3681.1	3551.9	3494.6	3286.5	3049.7	2985.0	2927.7	2891.7
10°	3878.4	3821.0	3745.6	3594.9	3290.0	3189.5	2981.4	2827.2	2787.7	2776.9	2787.7
12.5°	3853.3	3799.5	3695.4	3444.3	3017.4	2949.2	2827.2	2737.5	2730.3	2748.2	2845.1
15°	3810.3	3760.0	3638.0	3243.4	2866.6	2816.4	2730.3	2698.0	2737.5	2863.0	3153.7
17.5°	3767.2	3709.8	3559.1	3046.0	2751.9	2715.9	2654.9	2719.6	2942.0	3110.6	3207.5
20°	3709.8	3641.6	3469.4	2902.5	2669.3	2637.0	2608.3	2899.0	3067.6	3128.6	3182.4
22.5°	3641.6	3569.9	3347.4	2802.1	2583.2	2558.1	2576.0	2999.4	3067.6	3110.6	3157.3
25°	3551.9	3490.9	3203.9	2723.2	2515.1	2486.4	2554.5	2988.7	3028.1	3038.9	3132.1
27.5°	3469.4	3390.5	3053.2	2651.4	2432.5	2421.8	2572.5	2942.0	2970.7	2981.4	3081.9
30°	3368.9	3250.5	2884.6	2576.0	2346.4	2342.8	2576.0	2884.6	2877.4	2906.1	3006.6
32.5°	3264.9	3042.4	2694.4	2482.8	2263.9	2260.3	2550.9	2798.5	2791.3	2830.8	2906.1
35°	3168.1	2881.0	2436.2	2375.1	2159.9	2163.4	2489.9	2698.0	2701.6	2737.5	2784.1
37.5°	3067.6	2741.1	2152.7	2256.7	2059.4	2059.4	2407.4	2604.8	2597.5	2608.3	2672.9
40°	2949.2	2522.2	1901.6	2102.4	1966.1	1955.3	2307.0	2504.3	2479.1	2475.6	2565.3
42.5°	2823.6	2281.8	1715.0	1897.9	1858.5	1844.1	2185.0	2382.3	2335.7	2346.4	2461.2
45°	2687.2	2217.3	1571.5	1603.8	1747.2	1736.5	2052.2	2242.4	2210.0	2238.8	2357.2
47.5°	2550.9	2088.1	1524.8	1331.0	1628.8	1625.3	1905.1	2106.0	2088.1	2116.8	2242.4
50°	2364.4	1944.6	1521.2	1141.0	1496.1	1510.4	1729.3	1973.3	1973.3	1998.4	2131.1
52.5°	2124.0	1768.8	1381.3	1033.2	1341.8	1384.9	1575.1	1858.5	1865.6	1890.8	2009.2
55°	1905.1	1585.8	1280.8	950.8	1158.9	1252.1	1424.4	1740.1	1754.5	1779.5	1887.2
57.5°	1704.2	1320.3	1259.4	853.9	990.2	1079.9	1291.6	1625.3	1632.5	1654.0	1758.0
60°	1488.9	954.3	1155.3	749.8	843.2	911.3	1169.6	1488.9	1514.1	1528.4	1618.1
62.5°	1245.0	692.4	1047.6	678.1	771.4	785.8	1069.2	1359.7	1392.0	1402.8	1456.7
65°	886.2	581.2	889.8	617.1	696.1	699.6	961.6	1227.0	1255.7	1273.7	1313.1
67.5°	599.1	473.6	678.1	559.7	638.6	642.2	857.5	1072.7	1112.2	1126.6	1151.7
70°	416.2	315.7	502.3	498.7	574.1	581.2	746.3	932.9	968.7	979.5	993.8
72.5°	304.9	254.7	416.2	448.5	505.9	513.0	631.4	775.0	810.8	821.6	828.8
75°	233.2	269.1	337.3	391.0	430.5	434.1	516.7	631.4	656.6	663.8	667.3
77.5°	186.6	251.2	247.6	315.7	351.6	344.4	405.4	488.0	509.4	509.4	509.4
80°	139.9	197.3	186.6	226.0	258.3	251.2	290.6	348.0	355.2	362.3	358.8
82.5°	104.0	125.5	125.5	143.5	172.3	165.0	193.7	226.0	226.0	226.0	233.2
85°	64.5	71.8	57.4	75.3	96.9	93.3	107.6	122.0	125.5	125.5	118.4
87.5°	39.5	32.3	17.9	28.7	43.1	43.1	50.2	53.9	50.2	50.2	50.2
90°	14.6	10.0	5.6	10.0	14.6	15.7	24.6	36.6	42.5	37.8	28.3
92.5°	98.5	60.4	22.4	60.4	98.5	108.0	151.8	210.3	239.5	209.9	150.7
95°	193.1	123.4	53.8	123.4	193.1	210.4	373.7	591.3	700.1	624.7	474.0
97.5°	215.8	154.3	92.9	154.3	215.8	231.2	503.4	866.2	1047.7	1000.1	904.8
100°	234.5	178.9	123.1	178.9	234.5	248.5	550.5	953.2	1154.6	1158.1	1165.0
102.5°	252.8	200.9	148.9	200.9	252.8	265.8	572.2	980.7	1184.9	1245.5	1366.9
105°	280.5	236.5	192.5	236.5	280.5	291.6	588.2	983.7	1181.5	1317.6	1589.6
107.5°	319.4	278.3	237.3	278.3	319.4	329.7	591.3	940.0	1114.3	1304.2	1683.8
110°	341.7	304.6	267.6	304.6	341.7	350.9	586.7	901.2	1058.4	1270.6	1694.9



TEST NUMBER: P934455

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	367.8	332.5	297.2	332.5	367.8	376.6	586.9	867.2	1007.4	1224.6	1658.9
115°	407.1	374.6	342.0	374.6	407.1	415.3	592.3	828.4	946.4	1155.6	1574.0
117.5°	445.3	415.7	386.1	415.7	445.3	452.8	603.3	804.1	904.4	1093.3	1470.8
120°	467.6	439.8	411.9	439.8	467.6	474.6	612.3	795.9	887.7	1060.2	1405.2
122.5°	493.3	465.3	437.1	465.3	493.3	500.4	625.2	791.6	874.7	1030.1	1340.8
125°	527.0	501.4	475.8	501.4	527.0	533.4	642.6	788.0	860.8	992.8	1256.6
127.5°	558.8	533.0	507.1	533.0	558.8	565.3	659.9	786.0	849.0	962.4	1188.9
130°	579.6	551.8	523.9	551.8	579.6	586.5	672.5	787.2	844.6	945.4	1147.2
132.5°	597.0	569.1	541.2	569.1	597.0	603.9	682.9	788.0	840.6	931.0	1111.5
135°	617.7	592.3	567.0	592.3	617.7	624.0	694.0	787.3	833.9	909.6	1060.8
137.5°	643.6	618.4	593.2	618.4	643.6	649.8	710.8	792.2	832.8	896.7	1024.6
140°	661.3	638.2	615.1	638.2	661.3	667.1	721.1	792.9	828.9	884.1	994.6
142.5°	674.7	653.3	631.9	653.3	674.7	680.0	729.7	795.8	828.9	877.4	974.4
145°	694.9	676.2	657.6	676.2	694.9	699.6	740.9	795.8	823.3	863.0	942.4
147.5°	719.7	701.5	683.4	701.5	719.7	724.2	757.3	801.3	823.3	854.6	917.0
150°	733.0	716.5	700.1	716.5	733.0	737.1	765.9	804.1	823.3	849.7	902.4
152.5°	742.4	729.9	717.5	729.9	742.4	745.5	771.5	806.0	823.3	845.9	890.9
155°	761.7	752.5	743.2	752.5	761.7	764.0	783.8	810.1	823.3	841.3	877.0
157.5°	780.2	771.3	762.3	771.3	780.2	782.4	796.1	814.3	823.3	837.3	865.1
160°	789.1	782.1	775.2	782.1	789.1	790.8	801.7	816.1	823.3	835.3	859.1
162.5°	798.5	793.3	788.0	793.3	798.5	799.8	807.7	818.1	823.3	833.4	853.5
165°	811.5	806.8	802.1	806.8	811.5	812.7	816.2	821.0	823.3	830.6	845.0
167.5°	819.4	817.1	814.9	817.1	819.4	819.9	822.9	826.9	828.9	833.6	843.1
170°	827.8	825.5	823.3	825.5	827.8	828.3	828.5	828.8	828.9	833.6	843.1
172.5°	828.8	828.2	827.8	828.2	828.8	828.9	828.9	828.9	828.9	832.6	840.1
175°	833.9	833.9	833.9	833.9	833.9	833.9	832.2	829.9	828.9	831.2	836.0
177.5°	833.9	833.9	833.9	833.9	833.9	833.9	832.7	830.9	830.0	831.9	835.6
180°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9



TEST NUMBER: P934455

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3659.6	3648.8	3663.1	3623.6	3663.1	3648.8	3659.6	3684.6	3663.1	3677.5	3691.9
5°	3211.1	3193.1	3135.7	3089.1	3135.7	3193.1	3211.1	3286.5	3322.3	3386.8	3473.0
7.5°	2870.3	2855.9	2841.6	2812.8	2841.6	2855.9	2870.3	2891.7	2927.7	2985.0	3049.7
10°	2794.9	2798.5	2820.0	2816.4	2820.0	2798.5	2794.9	2787.7	2776.9	2787.7	2827.2
12.5°	2988.7	3020.9	3139.3	3132.1	3139.3	3020.9	2988.7	2845.1	2748.2	2730.3	2737.5
15°	3211.1	3221.8	3247.0	3250.5	3247.0	3221.8	3211.1	3153.7	2863.0	2737.5	2698.0
17.5°	3232.6	3236.2	3254.1	3254.1	3254.1	3236.2	3232.6	3207.5	3110.6	2942.0	2719.6
20°	3214.7	3221.8	3257.7	3264.9	3257.7	3221.8	3214.7	3182.4	3128.6	3067.6	2899.0
22.5°	3207.5	3221.8	3250.5	3247.0	3250.5	3221.8	3207.5	3157.3	3110.6	3067.6	2999.4
25°	3171.6	3171.6	3175.2	3178.7	3175.2	3171.6	3171.6	3132.1	3038.9	3028.1	2988.7
27.5°	3096.3	3103.4	3125.0	3121.4	3125.0	3103.4	3096.3	3081.9	2981.4	2970.7	2942.0
30°	3028.1	3020.9	3003.0	2988.7	3003.0	3020.9	3028.1	3006.6	2906.1	2877.4	2884.6
32.5°	2913.3	2895.3	2877.4	2866.6	2877.4	2895.3	2913.3	2906.1	2830.8	2791.3	2798.5
35°	2776.9	2780.6	2776.9	2766.2	2776.9	2780.6	2776.9	2784.1	2737.5	2701.6	2698.0
37.5°	2680.1	2687.2	2683.7	2669.3	2683.7	2687.2	2680.1	2672.9	2608.3	2597.5	2604.8
40°	2579.6	2583.2	2579.6	2568.8	2579.6	2583.2	2579.6	2565.3	2475.6	2479.1	2504.3
42.5°	2482.8	2479.1	2468.4	2461.2	2468.4	2479.1	2482.8	2461.2	2346.4	2335.7	2382.3
45°	2371.5	2375.1	2353.6	2342.8	2353.6	2375.1	2371.5	2357.2	2238.8	2210.0	2242.4
47.5°	2260.3	2260.3	2242.4	2231.6	2242.4	2260.3	2260.3	2242.4	2116.8	2088.1	2106.0
50°	2141.9	2138.4	2113.2	2109.7	2113.2	2138.4	2141.9	2131.1	1998.4	1973.3	1973.3
52.5°	2005.6	2005.6	2009.2	2016.3	2009.2	2005.6	2005.6	2009.2	1890.8	1865.6	1858.5
55°	1887.2	1890.8	1915.9	1923.0	1915.9	1890.8	1887.2	1887.2	1779.5	1754.5	1740.1
57.5°	1765.2	1765.2	1783.2	1783.2	1783.2	1765.2	1765.2	1758.0	1654.0	1632.5	1625.3
60°	1625.3	1632.5	1646.8	1643.2	1646.8	1632.5	1625.3	1618.1	1528.4	1514.1	1488.9
62.5°	1478.1	1485.4	1488.9	1481.7	1488.9	1485.4	1478.1	1456.7	1402.8	1392.0	1359.7
65°	1323.9	1331.0	1334.7	1327.5	1334.7	1331.0	1323.9	1313.1	1273.7	1255.7	1227.0
67.5°	1166.0	1162.4	1158.9	1173.2	1158.9	1162.4	1166.0	1151.7	1126.6	1112.2	1072.7
70°	1004.5	1004.5	1001.0	1008.2	1001.0	1004.5	1004.5	993.8	979.5	968.7	932.9
72.5°	832.4	828.8	843.2	832.4	843.2	828.8	832.4	828.8	821.6	810.8	775.0
75°	663.8	670.9	663.8	674.5	663.8	670.9	663.8	667.3	663.8	656.6	631.4
77.5°	505.9	513.0	505.9	505.9	505.9	513.0	505.9	509.4	509.4	509.4	488.0
80°	358.8	355.2	355.2	351.6	355.2	355.2	358.8	358.8	362.3	355.2	348.0
82.5°	229.6	226.0	226.0	233.2	226.0	226.0	229.6	233.2	226.0	226.0	226.0
85°	125.5	129.2	122.0	122.0	122.0	129.2	125.5	118.4	125.5	125.5	122.0
87.5°	46.6	43.1	43.1	43.1	43.1	43.1	46.6	50.2	50.2	50.2	53.9
90°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	28.3	37.8	42.5	36.6
92.5°	106.4	102.1	85.2	68.2	85.2	102.1	106.4	150.7	209.9	239.5	210.3
95°	361.0	348.1	296.9	245.7	296.9	348.1	361.0	474.0	624.7	700.1	591.3
97.5°	833.4	809.0	711.5	614.0	711.5	809.0	833.4	904.8	1000.1	1047.7	866.2
100°	1170.3	1141.2	1025.1	909.0	1025.1	1141.2	1170.3	1165.0	1158.1	1154.6	953.2
102.5°	1457.9	1433.1	1333.6	1234.1	1333.6	1433.1	1457.9	1366.9	1245.5	1184.9	980.7
105°	1793.8	1780.4	1727.0	1673.5	1727.0	1780.4	1793.8	1589.6	1317.6	1181.5	983.7
107.5°	1968.5	1971.7	1984.6	1997.5	1984.6	1971.7	1968.5	1683.8	1304.2	1114.3	940.0
110°	2013.2	2027.1	2082.8	2138.5	2082.8	2027.1	2013.2	1694.9	1270.6	1058.4	901.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1984.7	2006.0	2091.6	2177.2	2091.6	2006.0	1984.7	1658.9	1224.6	1007.4	867.2
115°	1887.8	1917.5	2036.2	2154.8	2036.2	1917.5	1887.8	1574.0	1155.6	946.4	828.4
117.5°	1754.0	1786.9	1918.5	2050.1	1918.5	1786.9	1754.0	1470.8	1093.3	904.4	804.1
120°	1664.0	1695.9	1823.8	1951.6	1823.8	1695.9	1664.0	1405.2	1060.2	887.7	795.9
122.5°	1573.8	1605.3	1731.5	1857.6	1731.5	1605.3	1573.8	1340.8	1030.1	874.7	791.6
125°	1454.6	1483.6	1599.8	1716.0	1599.8	1483.6	1454.6	1256.6	992.8	860.8	788.0
127.5°	1358.9	1383.4	1481.4	1579.4	1481.4	1383.4	1358.9	1188.9	962.4	849.0	786.0
130°	1298.5	1321.1	1411.7	1502.2	1411.7	1321.1	1298.5	1147.2	945.4	844.6	787.2
132.5°	1246.9	1267.2	1348.3	1429.4	1348.3	1267.2	1246.9	1111.5	931.0	840.6	788.0
135°	1174.3	1191.7	1261.6	1331.5	1261.6	1191.7	1174.3	1060.8	909.6	833.9	787.3
137.5°	1120.5	1134.8	1192.0	1249.2	1192.0	1134.8	1120.5	1024.6	896.7	832.8	792.2
140°	1077.4	1090.8	1144.2	1197.7	1144.2	1090.8	1077.4	994.6	884.1	828.9	792.9
142.5°	1047.2	1058.7	1104.7	1150.7	1104.7	1058.7	1047.2	974.4	877.4	828.9	795.8
145°	1001.8	1010.5	1045.4	1080.2	1045.4	1010.5	1001.8	942.4	863.0	823.3	795.8
147.5°	963.8	971.1	999.8	1028.7	999.8	971.1	963.8	917.0	854.6	823.3	801.3
150°	941.9	947.8	971.1	994.6	971.1	947.8	941.9	902.4	849.7	823.3	804.1
152.5°	924.6	929.1	946.7	964.4	946.7	929.1	924.6	890.9	845.9	823.3	806.0
155°	903.9	906.8	918.6	930.2	918.6	906.8	903.9	877.0	841.3	823.3	810.1
157.5°	886.0	888.1	896.2	904.4	896.2	888.1	886.0	865.1	837.3	823.3	814.3
160°	877.0	878.2	883.0	887.7	883.0	878.2	877.0	859.1	835.3	823.3	816.1
162.5°	868.6	869.7	874.2	878.7	874.2	869.7	868.6	853.5	833.4	823.3	818.1
165°	855.7	856.9	861.7	866.4	861.7	856.9	855.7	845.0	830.6	823.3	821.0
167.5°	850.1	850.7	852.7	854.7	852.7	850.7	850.1	843.1	833.6	828.9	826.9
170°	850.1	850.1	850.1	850.1	850.1	850.1	850.1	843.1	833.6	828.9	828.8
172.5°	845.7	845.2	843.5	841.8	843.5	845.2	845.7	840.1	832.6	828.9	828.9
175°	839.5	839.5	839.5	839.5	839.5	839.5	839.5	836.0	831.2	828.9	829.9
177.5°	838.5	837.9	835.9	833.9	835.9	837.9	838.5	835.6	831.9	830.0	830.9
180°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3745.6	3763.6	3774.3	3788.7	3824.6
5°	3602.2	3670.3	3691.9	3745.6	3810.3
7.5°	3286.5	3494.6	3551.9	3681.1	3781.5
10°	2981.4	3189.5	3290.0	3594.9	3745.6
12.5°	2827.2	2949.2	3017.4	3444.3	3695.4
15°	2730.3	2816.4	2866.6	3243.4	3638.0
17.5°	2654.9	2715.9	2751.9	3046.0	3559.1
20°	2608.3	2637.0	2669.3	2902.5	3469.4
22.5°	2576.0	2558.1	2583.2	2802.1	3347.4
25°	2554.5	2486.4	2515.1	2723.2	3203.9
27.5°	2572.5	2421.8	2432.5	2651.4	3053.2
30°	2576.0	2342.8	2346.4	2576.0	2884.6
32.5°	2550.9	2260.3	2263.9	2482.8	2694.4
35°	2489.9	2163.4	2159.9	2375.1	2436.2
37.5°	2407.4	2059.4	2059.4	2256.7	2152.7
40°	2307.0	1955.3	1966.1	2102.4	1901.6
42.5°	2185.0	1844.1	1858.5	1897.9	1715.0
45°	2052.2	1736.5	1747.2	1603.8	1571.5
47.5°	1905.1	1625.3	1628.8	1331.0	1524.8
50°	1729.3	1510.4	1496.1	1141.0	1521.2
52.5°	1575.1	1384.9	1341.8	1033.2	1381.3
55°	1424.4	1252.1	1158.9	950.8	1280.8
57.5°	1291.6	1079.9	990.2	853.9	1259.4
60°	1169.6	911.3	843.2	749.8	1155.3
62.5°	1069.2	785.8	771.4	678.1	1047.6
65°	961.6	699.6	696.1	617.1	889.8
67.5°	857.5	642.2	638.6	559.7	678.1
70°	746.3	581.2	574.1	498.7	502.3
72.5°	631.4	513.0	505.9	448.5	416.2
75°	516.7	434.1	430.5	391.0	337.3
77.5°	405.4	344.4	351.6	315.7	247.6
80°	290.6	251.2	258.3	226.0	186.6
82.5°	193.7	165.0	172.3	143.5	125.5
85°	107.6	93.3	96.9	75.3	57.4
87.5°	50.2	43.1	43.1	28.7	17.9
90°	24.6	15.7	14.6	10.0	5.6
92.5°	151.8	108.0	98.5	60.4	22.4
95°	373.7	210.4	193.1	123.4	53.8
97.5°	503.4	231.2	215.8	154.3	92.9
100°	550.5	248.5	234.5	178.9	123.1
102.5°	572.2	265.8	252.8	200.9	148.9
105°	588.2	291.6	280.5	236.5	192.5
107.5°	591.3	329.7	319.4	278.3	237.3
110°	586.7	350.9	341.7	304.6	267.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	586.9	376.6	367.8	332.5	297.2
115°	592.3	415.3	407.1	374.6	342.0
117.5°	603.3	452.8	445.3	415.7	386.1
120°	612.3	474.6	467.6	439.8	411.9
122.5°	625.2	500.4	493.3	465.3	437.1
125°	642.6	533.4	527.0	501.4	475.8
127.5°	659.9	565.3	558.8	533.0	507.1
130°	672.5	586.5	579.6	551.8	523.9
132.5°	682.9	603.9	597.0	569.1	541.2
135°	694.0	624.0	617.7	592.3	567.0
137.5°	710.8	649.8	643.6	618.4	593.2
140°	721.1	667.1	661.3	638.2	615.1
142.5°	729.7	680.0	674.7	653.3	631.9
145°	740.9	699.6	694.9	676.2	657.6
147.5°	757.3	724.2	719.7	701.5	683.4
150°	765.9	737.1	733.0	716.5	700.1
152.5°	771.5	745.5	742.4	729.9	717.5
155°	783.8	764.0	761.7	752.5	743.2
157.5°	796.1	782.4	780.2	771.3	762.3
160°	801.7	790.8	789.1	782.1	775.2
162.5°	807.7	799.8	798.5	793.3	788.0
165°	816.2	812.7	811.5	806.8	802.1
167.5°	822.9	819.9	819.4	817.1	814.9
170°	828.5	828.3	827.8	825.5	823.3
172.5°	828.9	828.9	828.8	828.2	827.8
175°	832.2	833.9	833.9	833.9	833.9
177.5°	832.7	833.9	833.9	833.9	833.9
180°	833.9	833.9	833.9	833.9	833.9



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	14.61	15.62	15.43	16.46	17.51	17.46	18.47	18.28	19.31	20.36
	3H	15.10	16.00	15.93	16.86	17.93	18.82	19.73	19.66	20.58	21.66
	4H	15.30	16.15	16.15	17.01	18.10	19.28	20.13	20.13	20.99	22.08
	6H	15.42	16.21	16.29	17.08	18.18	19.58	20.37	20.44	21.23	22.33
	8H	15.43	16.18	16.30	17.06	18.16	19.66	20.41	20.53	21.30	22.40
	12H	15.40	16.12	16.28	17.00	18.12	19.71	20.42	20.58	21.30	22.43
4H	2H	15.66	16.52	16.52	17.38	18.47	17.89	18.74	18.74	19.60	20.69
	3H	16.71	17.42	17.57	18.31	19.41	19.41	20.13	20.28	21.02	22.12
	4H	16.99	17.64	17.87	18.53	19.65	19.95	20.60	20.83	21.49	22.62
	6H	17.12	17.68	18.02	18.60	19.73	20.33	20.89	21.23	21.81	22.94
	8H	17.13	17.65	18.03	18.56	19.71	20.44	20.97	21.34	21.88	23.02
	12H	17.10	17.58	18.02	18.50	19.65	20.51	20.98	21.43	21.91	23.06
8H	4H	17.46	17.98	18.35	18.89	20.03	20.09	20.61	20.99	21.52	22.66
	6H	17.72	18.16	18.65	19.11	20.25	20.54	20.97	21.46	21.92	23.06
	8H	17.77	18.15	18.70	19.09	20.26	20.69	21.08	21.63	22.02	23.18
	12H	17.76	18.10	18.70	19.03	20.24	20.80	21.14	21.74	22.07	23.29
12H	4H	17.47	17.94	18.39	18.87	20.02	20.06	20.53	20.98	21.46	22.61
	6H	17.79	18.17	18.72	19.11	20.27	20.53	20.92	21.47	21.86	23.02
	8H	17.86	18.20	18.80	19.13	20.35	20.71	21.04	21.64	21.98	23.19