

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: P934479

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934479
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-B2750-1D-UNV-STD-W-12-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

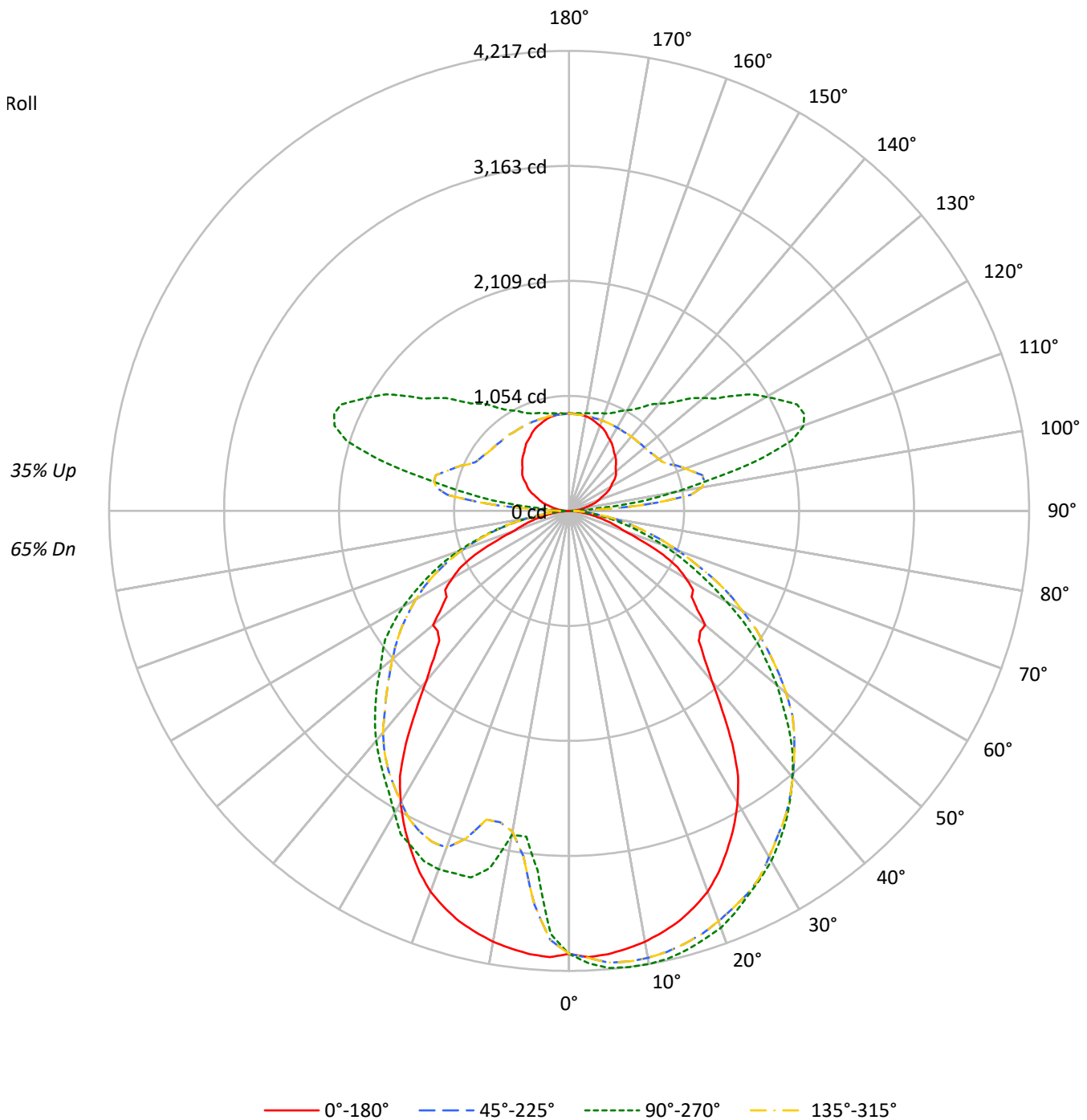
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16317.0 lumens
Efficiency: N/A
Efficacy: 120.3 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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Luminous Intensity Polar Plot





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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°	12557	12557	12557	12557
5°	12656	12676	12656	9967
10°	12575	12486	12575	8927
15°	12443	12216	12443	10200
20°	12188	11896	12188	10222
25°	11660	11428	11660	10005
30°	10976	11040	10976	9530
35°	9791	10549	9791	9007
40°	8163	9971	8163	8612
45°	7298	9295	7298	8158
50°	7759	8488	7759	7702
55°	7307	7619	7307	7438
60°	7542	6471	7542	6813
65°	6849	5349	6849	5979
70°	4754	4263	4754	5012
75°	4184	3151	4184	3773
80°	3397	2083	3397	2268
85°	1990	1103	1990	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11178 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	2.2
10°-20°	1040.5	6.4
20°-30°	1608.4	9.9
30°-40°	1920.1	11.8
40°-50°	1931.4	11.8
50°-60°	1680.5	10.3
60°-70°	1191.5	7.3
70°-80°	630.4	3.9
80°-90°	160.4	1.0
90°-100°	435.1	2.7
100°-110°	1144.1	7.0
110°-120°	1186.3	7.3
120°-130°	951.5	5.8
130°-140°	746.6	4.6
140°-150°	573.1	3.5
150°-160°	412.7	2.5
160°-170°	252.5	1.5
170°-180°	85.3	0.5
0°-30°	3015.4	18.5
0°-40°	4935.5	30.2
0°-60°	8547.4	52.4
0°-90°	10529.7	64.5
90°-120°	2765.5	16.9
90°-150°	5036.8	30.9
90°-180°	5787.0	35.5
0°-180°	16317.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4060	4060	4060	4060	4060	
5°	4079	4206	4079	3307	4079	387
15°	3895	4167	3895	3480	3895	1096
25°	3430	3887	3430	3403	3430	1575
35°	2608	3468	2608	2961	2608	1613
45°	1682	2858	1682	2508	1682	1348
55°	1371	2109	1371	2059	1371	1260
65°	952	1271	952	1421	952	910
75°	361	603	361	722	361	380
85°	61	154	61	131	61	83
90°	6	23	6	23	6	8
95°	58	263	58	263	58	64
105°	206	1792	206	1792	206	219
115°	366	2307	366	2307	366	362
125°	509	1837	509	1837	509	452
135°	607	1425	607	1425	607	470
145°	704	1156	704	1156	704	441
155°	796	996	796	996	796	366
165°	859	928	859	928	859	242
175°	893	899	893	899	893	85
180°	893	893	893	893	893	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	4094.3	4094.3	4117.4	4125.0	4125.0	4113.5	4102.0	4113.5	4148.1	4159.6	4155.8
5°	4079.0	4109.7	4152.0	4159.6	4167.3	4163.5	4155.8	4163.5	4201.9	4209.5	4213.4
7.5°	4048.2	4105.8	4159.6	4171.2	4182.7	4171.2	4167.3	4175.0	4213.4	4221.1	4221.1
10°	4009.8	4090.5	4152.0	4159.6	4171.2	4159.6	4159.6	4175.0	4213.4	4221.1	4224.9
12.5°	3956.0	4067.5	4125.0	4132.8	4148.1	4144.2	4140.4	4155.8	4194.2	4201.9	4201.9
15°	3894.6	4025.2	4079.0	4086.7	4113.5	4105.8	4105.8	4121.3	4163.5	4175.0	4171.2
17.5°	3810.1	3971.4	4032.9	4044.4	4063.6	4059.7	4063.6	4079.0	4117.4	4125.0	4128.9
20°	3714.1	3898.5	3971.4	3983.0	4002.2	4002.2	4002.2	4021.4	4059.7	4075.1	4075.1
22.5°	3583.5	3821.6	3898.5	3906.1	3929.2	3929.2	3936.9	3963.7	3998.3	4002.2	4002.2
25°	3429.9	3737.1	3802.5	3825.5	3848.5	3860.0	3871.5	3886.9	3898.5	3894.6	3898.5
27.5°	3268.5	3629.6	3714.1	3729.5	3760.2	3771.7	3787.0	3790.9	3794.7	3806.2	3798.6
30°	3088.0	3479.8	3606.5	3621.9	3671.8	3679.5	3664.2	3671.8	3691.0	3698.8	3706.4
32.5°	2884.4	3257.0	3495.2	3529.7	3575.8	3552.7	3549.0	3560.5	3591.2	3591.2	3598.9
35°	2608.0	3084.2	3391.5	3422.2	3456.7	3429.9	3445.2	3449.1	3468.2	3479.8	3476.0
37.5°	2304.5	2934.4	3283.9	3307.0	3333.8	3299.3	3322.3	3333.8	3349.3	3341.5	3341.5
40°	2035.7	2700.1	3157.2	3172.5	3195.6	3168.7	3191.7	3199.4	3207.1	3199.4	3195.6
42.5°	1836.0	2442.8	3022.7	3042.0	3026.6	3045.8	3053.4	3068.8	3057.3	3042.0	3042.0
45°	1682.3	2373.7	2876.8	2899.8	2876.8	2907.5	2919.0	2919.0	2884.4	2876.8	2873.0
47.5°	1632.4	2235.4	2730.8	2730.8	2719.3	2757.7	2777.0	2750.0	2715.4	2704.0	2704.0
50°	1628.5	2081.7	2531.1	2515.7	2569.5	2615.6	2596.4	2569.5	2542.7	2500.4	2500.4
52.5°	1478.7	1893.5	2273.8	2331.4	2415.9	2442.8	2412.0	2385.2	2339.1	2319.9	2304.5
55°	1371.1	1697.7	2039.5	2154.7	2243.0	2277.6	2220.0	2193.1	2124.0	2112.4	2104.8
57.5°	1348.2	1413.4	1824.4	1970.4	2077.9	2074.0	2039.5	1989.6	1931.9	1920.5	1916.6
60°	1236.7	1021.6	1593.9	1766.8	1878.2	1866.7	1836.0	1789.8	1736.1	1728.4	1720.7
62.5°	1121.5	741.3	1332.8	1528.7	1686.2	1682.3	1655.4	1586.3	1547.9	1528.7	1513.3
65°	952.5	622.2	948.7	1271.3	1497.9	1505.6	1448.0	1398.1	1355.8	1332.8	1328.9
67.5°	725.9	507.0	641.4	1060.1	1317.5	1309.7	1236.7	1213.7	1159.9	1148.4	1125.4
70°	537.7	338.0	445.5	860.4	1140.7	1121.5	1063.9	1037.0	987.1	960.2	944.9
72.5°	445.5	272.7	326.5	668.3	960.2	937.1	887.2	856.5	814.3	791.2	775.9
75°	361.0	288.1	249.6	495.4	779.7	764.3	718.2	687.5	652.9	622.2	626.1
77.5°	265.0	268.9	199.7	364.9	618.4	595.4	568.4	530.0	514.6	483.9	483.9
80°	199.7	211.2	149.8	249.6	445.5	445.5	422.5	395.6	368.7	353.4	353.4
82.5°	134.4	134.4	111.3	157.5	303.4	291.9	276.6	268.9	253.5	245.8	245.8
85°	61.4	76.8	69.1	96.0	165.1	172.9	172.9	165.1	161.3	153.6	157.5
87.5°	19.2	34.6	42.2	53.8	84.5	88.4	92.2	92.2	92.2	96.0	96.0
90°	6.0	10.8	15.6	16.8	26.4	39.1	45.5	40.5	30.3	22.8	22.8
92.5°	23.9	64.6	105.4	115.6	162.5	225.1	256.4	224.7	161.3	113.9	109.3
95°	57.6	132.1	206.7	225.3	400.0	633.0	749.5	668.8	507.5	386.4	372.7
97.5°	99.4	165.2	231.0	247.5	538.9	927.3	1121.6	1070.6	968.6	892.2	866.1
100°	131.8	191.5	251.1	266.0	589.3	1020.5	1236.1	1239.7	1247.2	1252.8	1221.7
102.5°	159.4	215.0	270.6	284.6	612.5	1049.8	1268.4	1333.3	1463.3	1560.8	1534.1
105°	206.1	253.2	300.3	312.1	629.7	1053.1	1264.8	1410.5	1701.8	1920.3	1905.9
107.5°	254.1	298.0	342.0	352.9	633.0	1006.3	1192.9	1396.1	1802.5	2107.3	2110.8
110°	286.4	326.1	365.8	375.7	628.1	964.7	1133.1	1360.2	1814.5	2155.2	2170.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	318.1	355.9	393.7	403.2	628.3	928.4	1078.5	1311.0	1775.9	2124.6	2147.5
115°	366.1	401.0	435.9	444.6	634.1	886.8	1013.2	1237.1	1685.0	2020.9	2052.7
117.5°	413.4	445.1	476.7	484.7	645.8	860.8	968.2	1170.4	1574.5	1877.7	1912.9
120°	441.0	470.8	500.6	508.0	655.4	852.0	950.3	1135.0	1504.3	1781.3	1815.5
122.5°	467.9	498.1	528.1	535.7	669.3	847.4	936.4	1102.7	1435.4	1684.8	1718.5
125°	509.3	536.7	564.2	571.0	687.9	843.6	921.5	1062.8	1345.3	1557.2	1588.3
127.5°	542.8	570.5	598.3	605.1	706.4	841.4	908.9	1030.2	1272.8	1454.8	1481.0
130°	560.9	590.7	620.5	627.9	720.0	842.7	904.2	1012.1	1228.1	1390.0	1414.3
132.5°	579.4	609.2	639.1	646.5	731.0	843.6	899.9	996.6	1189.9	1334.9	1356.6
135°	607.0	634.1	661.2	668.0	742.9	842.8	892.7	973.7	1135.7	1257.1	1275.8
137.5°	635.1	662.0	689.0	695.6	761.0	848.1	891.6	960.0	1096.9	1199.5	1214.8
140°	658.4	683.2	708.0	714.2	771.9	848.8	887.3	946.4	1064.7	1153.4	1167.7
142.5°	676.5	699.3	722.3	728.0	781.1	851.9	887.3	939.3	1043.1	1121.0	1133.3
145°	704.0	723.9	743.9	748.9	793.1	851.9	881.4	923.8	1008.8	1072.5	1081.8
147.5°	731.6	751.0	770.5	775.3	810.7	857.9	881.4	914.8	981.7	1031.8	1039.5
150°	749.5	767.1	784.7	789.1	819.9	860.9	881.4	909.6	966.0	1008.3	1014.6
152.5°	768.1	781.4	794.8	798.1	825.9	862.9	881.4	905.5	953.7	989.8	994.6
155°	795.6	805.5	815.4	817.8	839.1	867.3	881.4	900.6	938.9	967.6	970.7
157.5°	816.1	825.7	835.2	837.6	852.2	871.7	881.4	896.3	926.1	948.5	950.7
160°	829.9	837.3	844.8	846.6	858.2	873.7	881.4	894.2	919.7	938.9	940.1
162.5°	843.6	849.2	854.9	856.2	864.6	875.8	881.4	892.2	913.7	929.9	931.0
165°	858.6	863.7	868.7	870.0	873.7	878.9	881.4	889.2	904.6	916.1	917.4
167.5°	872.4	874.7	877.1	877.7	880.9	885.2	887.3	892.4	902.5	910.1	910.7
170°	881.4	883.7	886.2	886.7	886.9	887.2	887.3	892.4	902.5	910.1	910.1
172.5°	886.2	886.6	887.2	887.3	887.3	887.3	887.3	891.3	899.3	905.3	904.9
175°	892.7	892.7	892.7	892.7	890.9	888.5	887.3	889.8	895.0	898.7	898.7
177.5°	892.7	892.7	892.7	892.7	891.4	889.5	888.6	890.6	894.6	897.6	897.0
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	4163.5	4152.0	4163.5	4155.8	4159.6	4148.1	4113.5	4102.0	4113.5	4125.0	4125.0
5°	4213.4	4205.8	4213.4	4213.4	4209.5	4201.9	4163.5	4155.8	4163.5	4167.3	4159.6
7.5°	4228.7	4217.3	4228.7	4221.1	4221.1	4213.4	4175.0	4167.3	4171.2	4182.7	4171.2
10°	4228.7	4217.3	4228.7	4224.9	4221.1	4213.4	4175.0	4159.6	4159.6	4171.2	4159.6
12.5°	4209.5	4201.9	4209.5	4201.9	4201.9	4194.2	4155.8	4140.4	4144.2	4148.1	4132.8
15°	4178.8	4167.3	4178.8	4171.2	4175.0	4163.5	4121.3	4105.8	4105.8	4113.5	4086.7
17.5°	4132.8	4117.4	4132.8	4128.9	4125.0	4117.4	4079.0	4063.6	4059.7	4063.6	4044.4
20°	4079.0	4067.5	4079.0	4075.1	4075.1	4059.7	4021.4	4002.2	4002.2	4002.2	3983.0
22.5°	3994.5	3983.0	3994.5	4002.2	4002.2	3998.3	3963.7	3936.9	3929.2	3929.2	3906.1
25°	3898.5	3886.9	3898.5	3898.5	3894.6	3898.5	3886.9	3871.5	3860.0	3848.5	3825.5
27.5°	3806.2	3798.6	3806.2	3798.6	3806.2	3794.7	3790.9	3787.0	3771.7	3760.2	3729.5
30°	3714.1	3706.4	3714.1	3706.4	3698.8	3691.0	3671.8	3664.2	3679.5	3671.8	3621.9
32.5°	3598.9	3591.2	3598.9	3598.9	3591.2	3591.2	3560.5	3549.0	3552.7	3575.8	3529.7
35°	3479.8	3468.2	3479.8	3476.0	3479.8	3468.2	3449.1	3445.2	3429.9	3456.7	3422.2
37.5°	3341.5	3330.0	3341.5	3341.5	3341.5	3349.3	3333.8	3322.3	3299.3	3333.8	3307.0
40°	3199.4	3184.0	3199.4	3195.6	3199.4	3207.1	3199.4	3191.7	3168.7	3195.6	3172.5
42.5°	3038.1	3034.2	3038.1	3042.0	3042.0	3057.3	3068.8	3053.4	3045.8	3026.6	3042.0
45°	2865.2	2857.6	2865.2	2873.0	2876.8	2884.4	2919.0	2919.0	2907.5	2876.8	2899.8
47.5°	2680.9	2661.7	2680.9	2704.0	2704.0	2715.4	2750.0	2777.0	2757.7	2719.3	2730.8
50°	2485.0	2488.9	2485.0	2500.4	2500.4	2542.7	2569.5	2596.4	2615.6	2569.5	2515.7
52.5°	2292.9	2289.2	2292.9	2304.5	2319.9	2339.1	2385.2	2412.0	2442.8	2415.9	2331.4
55°	2100.9	2108.6	2100.9	2104.8	2112.4	2124.0	2193.1	2220.0	2277.6	2243.0	2154.7
57.5°	1908.9	1897.4	1908.9	1916.6	1920.5	1931.9	1989.6	2039.5	2074.0	2077.9	1970.4
60°	1686.2	1670.7	1686.2	1720.7	1728.4	1736.1	1789.8	1836.0	1866.7	1878.2	1766.8
62.5°	1490.2	1463.4	1490.2	1513.3	1528.7	1547.9	1586.3	1655.4	1682.3	1686.2	1528.7
65°	1282.9	1271.3	1282.9	1328.9	1332.8	1355.8	1398.1	1448.0	1505.6	1497.9	1271.3
67.5°	1094.7	1094.7	1094.7	1125.4	1148.4	1159.9	1213.7	1236.7	1309.7	1317.5	1060.1
70°	921.8	917.9	921.8	944.9	960.2	987.1	1037.0	1063.9	1121.5	1140.7	860.4
72.5°	756.7	752.8	756.7	775.9	791.2	814.3	856.5	887.2	937.1	960.2	668.3
75°	610.7	603.0	610.7	626.1	622.2	652.9	687.5	718.2	764.3	779.7	495.4
77.5°	468.6	468.6	468.6	483.9	483.9	514.6	530.0	568.4	595.4	618.4	364.9
80°	349.5	345.6	349.5	353.4	353.4	368.7	395.6	422.5	445.5	445.5	249.6
82.5°	245.8	238.1	245.8	245.8	245.8	253.5	268.9	276.6	291.9	303.4	157.5
85°	153.6	153.6	153.6	157.5	153.6	161.3	165.1	172.9	172.9	165.1	96.0
87.5°	99.9	96.0	99.9	96.0	96.0	92.2	92.2	92.2	88.4	84.5	53.8
90°	22.8	22.8	22.8	22.8	22.8	30.3	40.5	45.5	39.1	26.4	16.8
92.5°	91.2	73.1	91.2	109.3	113.9	161.3	224.7	256.4	225.1	162.5	115.6
95°	317.8	263.0	317.8	372.7	386.4	507.5	668.8	749.5	633.0	400.0	225.3
97.5°	761.6	657.3	761.6	866.1	892.2	968.6	1070.6	1121.6	927.3	538.9	247.5
100°	1097.4	973.1	1097.4	1221.7	1252.8	1247.2	1239.7	1236.1	1020.5	589.3	266.0
102.5°	1427.6	1321.1	1427.6	1534.1	1560.8	1463.3	1333.3	1268.4	1049.8	612.5	284.6
105°	1848.8	1791.5	1848.8	1905.9	1920.3	1701.8	1410.5	1264.8	1053.1	629.7	312.1
107.5°	2124.5	2138.4	2124.5	2110.8	2107.3	1802.5	1396.1	1192.9	1006.3	633.0	352.9
110°	2229.7	2289.4	2229.7	2170.1	2155.2	1814.5	1360.2	1133.1	964.7	628.1	375.7



TEST NUMBER: P934479

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2239.2	2330.7	2239.2	2147.5	2124.6	1775.9	1311.0	1078.5	928.4	628.3	403.2
115°	2179.8	2306.8	2179.8	2052.7	2020.9	1685.0	1237.1	1013.2	886.8	634.1	444.6
117.5°	2053.8	2194.7	2053.8	1912.9	1877.7	1574.5	1170.4	968.2	860.8	645.8	484.7
120°	1952.4	2089.3	1952.4	1815.5	1781.3	1504.3	1135.0	950.3	852.0	655.4	508.0
122.5°	1853.6	1988.6	1853.6	1718.5	1684.8	1435.4	1102.7	936.4	847.4	669.3	535.7
125°	1712.6	1837.0	1712.6	1588.3	1557.2	1345.3	1062.8	921.5	843.6	687.9	571.0
127.5°	1585.9	1690.8	1585.9	1481.0	1454.8	1272.8	1030.2	908.9	841.4	706.4	605.1
130°	1511.3	1608.2	1511.3	1414.3	1390.0	1228.1	1012.1	904.2	842.7	720.0	627.9
132.5°	1443.4	1530.2	1443.4	1356.6	1334.9	1189.9	996.6	899.9	843.6	731.0	646.5
135°	1350.6	1425.4	1350.6	1275.8	1257.1	1135.7	973.7	892.7	842.8	742.9	668.0
137.5°	1276.1	1337.3	1276.1	1214.8	1199.5	1096.9	960.0	891.6	848.1	761.0	695.6
140°	1224.9	1282.2	1224.9	1167.7	1153.4	1064.7	946.4	887.3	848.8	771.9	714.2
142.5°	1182.7	1231.9	1182.7	1133.3	1121.0	1043.1	939.3	887.3	851.9	781.1	728.0
145°	1119.1	1156.4	1119.1	1081.8	1072.5	1008.8	923.8	881.4	851.9	793.1	748.9
147.5°	1070.4	1101.3	1070.4	1039.5	1031.8	981.7	914.8	881.4	857.9	810.7	775.3
150°	1039.6	1064.7	1039.6	1014.6	1008.3	966.0	909.6	881.4	860.9	819.9	789.1
152.5°	1013.5	1032.4	1013.5	994.6	989.8	953.7	905.5	881.4	862.9	825.9	798.1
155°	983.3	995.8	983.3	970.7	967.6	938.9	900.6	881.4	867.3	839.1	817.8
157.5°	959.4	968.2	959.4	950.7	948.5	926.1	896.3	881.4	871.7	852.2	837.6
160°	945.3	950.3	945.3	940.1	938.9	919.7	894.2	881.4	873.7	858.2	846.6
162.5°	935.9	940.7	935.9	931.0	929.9	913.7	892.2	881.4	875.8	864.6	856.2
165°	922.5	927.5	922.5	917.4	916.1	904.6	889.2	881.4	878.9	873.7	870.0
167.5°	912.8	914.9	912.8	910.7	910.1	902.5	892.4	887.3	885.2	880.9	877.7
170°	910.1	910.1	910.1	910.1	910.1	902.5	892.4	887.3	887.2	886.9	886.7
172.5°	903.0	901.2	903.0	904.9	905.3	899.3	891.3	887.3	887.3	887.3	887.3
175°	898.7	898.7	898.7	898.7	898.7	895.0	889.8	887.3	888.5	890.9	892.7
177.5°	894.9	892.7	894.9	897.0	897.6	894.6	890.6	888.6	889.5	891.4	892.7
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



TEST NUMBER: P934479

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	4117.4	4094.3	4094.3	4055.9	4040.5	4029.0	4009.8	3952.3	3936.9	3921.4	3944.5
5°	4152.0	4109.7	4079.0	4009.8	3952.3	3929.2	3856.2	3718.0	3625.7	3556.6	3518.2
7.5°	4159.6	4105.8	4048.2	3940.7	3802.5	3741.0	3518.2	3264.8	3195.6	3134.1	3095.7
10°	4152.0	4090.5	4009.8	3848.5	3522.0	3414.5	3191.7	3026.6	2984.3	2972.8	2984.3
12.5°	4125.0	4067.5	3956.0	3687.2	3230.2	3157.2	3026.6	2930.5	2922.9	2942.1	3045.8
15°	4079.0	4025.2	3894.6	3472.1	3068.8	3015.0	2922.9	2888.3	2930.5	3064.9	3376.1
17.5°	4032.9	3971.4	3810.1	3260.9	2946.0	2907.5	2842.2	2911.4	3149.4	3330.0	3433.7
20°	3971.4	3898.5	3714.1	3107.2	2857.6	2823.0	2792.3	3103.4	3283.9	3349.3	3406.8
22.5°	3898.5	3821.6	3583.5	2999.7	2765.4	2738.5	2757.7	3211.0	3283.9	3330.0	3380.0
25°	3802.5	3737.1	3429.9	2915.2	2692.5	2661.7	2734.7	3199.4	3241.7	3253.2	3353.0
27.5°	3714.1	3629.6	3268.5	2838.4	2604.1	2592.6	2753.9	3149.4	3180.3	3191.7	3299.3
30°	3606.5	3479.8	3088.0	2757.7	2511.9	2508.1	2757.7	3088.0	3080.4	3111.1	3218.6
32.5°	3495.2	3257.0	2884.4	2657.9	2423.6	2419.7	2730.8	2995.9	2988.2	3030.5	3111.1
35°	3391.5	3084.2	2608.0	2542.7	2312.2	2316.0	2665.5	2888.3	2892.2	2930.5	2980.5
37.5°	3283.9	2934.4	2304.5	2415.9	2204.7	2204.7	2577.2	2788.5	2780.7	2792.3	2861.5
40°	3157.2	2700.1	2035.7	2250.7	2104.8	2093.2	2469.7	2680.9	2654.0	2650.2	2746.2
42.5°	3022.7	2442.8	1836.0	2031.8	1989.6	1974.1	2339.1	2550.3	2500.4	2511.9	2634.8
45°	2876.8	2373.7	1682.3	1716.9	1870.5	1858.9	2196.9	2400.5	2365.9	2396.7	2523.5
47.5°	2730.8	2235.4	1632.4	1424.9	1743.7	1739.9	2039.5	2254.6	2235.4	2266.1	2400.5
50°	2531.1	2081.7	1628.5	1221.4	1601.7	1617.0	1851.3	2112.4	2112.4	2139.4	2281.4
52.5°	2273.8	1893.5	1478.7	1106.1	1436.4	1482.6	1686.2	1989.6	1997.2	2024.1	2150.9
55°	2039.5	1697.7	1371.1	1017.8	1240.6	1340.4	1524.8	1862.8	1878.2	1905.1	2020.3
57.5°	1824.4	1413.4	1348.2	914.2	1060.1	1156.1	1382.7	1739.9	1747.6	1770.7	1882.0
60°	1593.9	1021.6	1236.7	802.7	902.6	975.6	1252.1	1593.9	1620.8	1636.2	1732.2
62.5°	1332.8	741.3	1121.5	725.9	825.8	841.2	1144.6	1455.6	1490.2	1501.8	1559.4
65°	948.7	622.2	952.5	660.7	745.2	748.9	1029.4	1313.6	1344.3	1363.5	1405.7
67.5°	641.4	507.0	725.9	599.1	683.6	687.5	917.9	1148.4	1190.6	1206.0	1233.0
70°	445.5	338.0	537.7	533.9	614.5	622.2	798.9	998.7	1037.0	1048.6	1063.9
72.5°	326.5	272.7	445.5	480.1	541.6	549.2	676.0	829.7	868.0	879.6	887.2
75°	249.6	288.1	361.0	418.6	460.9	464.7	553.1	676.0	702.9	710.6	714.3
77.5°	199.7	268.9	265.0	338.0	376.4	368.7	434.0	522.4	545.4	545.4	545.4
80°	149.8	211.2	199.7	242.0	276.6	268.9	311.1	372.6	380.2	387.9	384.1
82.5°	111.3	134.4	134.4	153.6	184.4	176.6	207.4	242.0	242.0	242.0	249.6
85°	69.1	76.8	61.4	80.6	103.7	99.9	115.2	130.6	134.4	134.4	126.7
87.5°	42.2	34.6	19.2	30.7	46.1	46.1	53.8	57.7	53.8	53.8	53.8
90°	15.6	10.8	6.0	10.8	15.6	16.8	26.4	39.1	45.5	40.5	30.3
92.5°	105.4	64.6	23.9	64.6	105.4	115.6	162.5	225.1	256.4	224.7	161.3
95°	206.7	132.1	57.6	132.1	206.7	225.3	400.0	633.0	749.5	668.8	507.5
97.5°	231.0	165.2	99.4	165.2	231.0	247.5	538.9	927.3	1121.6	1070.6	968.6
100°	251.1	191.5	131.8	191.5	251.1	266.0	589.3	1020.5	1236.1	1239.7	1247.2
102.5°	270.6	215.0	159.4	215.0	270.6	284.6	612.5	1049.8	1268.4	1333.3	1463.3
105°	300.3	253.2	206.1	253.2	300.3	312.1	629.7	1053.1	1264.8	1410.5	1701.8
107.5°	342.0	298.0	254.1	298.0	342.0	352.9	633.0	1006.3	1192.9	1396.1	1802.5
110°	365.8	326.1	286.4	326.1	365.8	375.7	628.1	964.7	1133.1	1360.2	1814.5



TEST NUMBER: P934479

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	393.7	355.9	318.1	355.9	393.7	403.2	628.3	928.4	1078.5	1311.0	1775.9
115°	435.9	401.0	366.1	401.0	435.9	444.6	634.1	886.8	1013.2	1237.1	1685.0
117.5°	476.7	445.1	413.4	445.1	476.7	484.7	645.8	860.8	968.2	1170.4	1574.5
120°	500.6	470.8	441.0	470.8	500.6	508.0	655.4	852.0	950.3	1135.0	1504.3
122.5°	528.1	498.1	467.9	498.1	528.1	535.7	669.3	847.4	936.4	1102.7	1435.4
125°	564.2	536.7	509.3	536.7	564.2	571.0	687.9	843.6	921.5	1062.8	1345.3
127.5°	598.3	570.5	542.8	570.5	598.3	605.1	706.4	841.4	908.9	1030.2	1272.8
130°	620.5	590.7	560.9	590.7	620.5	627.9	720.0	842.7	904.2	1012.1	1228.1
132.5°	639.1	609.2	579.4	609.2	639.1	646.5	731.0	843.6	899.9	996.6	1189.9
135°	661.2	634.1	607.0	634.1	661.2	668.0	742.9	842.8	892.7	973.7	1135.7
137.5°	689.0	662.0	635.1	662.0	689.0	695.6	761.0	848.1	891.6	960.0	1096.9
140°	708.0	683.2	658.4	683.2	708.0	714.2	771.9	848.8	887.3	946.4	1064.7
142.5°	722.3	699.3	676.5	699.3	722.3	728.0	781.1	851.9	887.3	939.3	1043.1
145°	743.9	723.9	704.0	723.9	743.9	748.9	793.1	851.9	881.4	923.8	1008.8
147.5°	770.5	751.0	731.6	751.0	770.5	775.3	810.7	857.9	881.4	914.8	981.7
150°	784.7	767.1	749.5	767.1	784.7	789.1	819.9	860.9	881.4	909.6	966.0
152.5°	794.8	781.4	768.1	781.4	794.8	798.1	825.9	862.9	881.4	905.5	953.7
155°	815.4	805.5	795.6	805.5	815.4	817.8	839.1	867.3	881.4	900.6	938.9
157.5°	835.2	825.7	816.1	825.7	835.2	837.6	852.2	871.7	881.4	896.3	926.1
160°	844.8	837.3	829.9	837.3	844.8	846.6	858.2	873.7	881.4	894.2	919.7
162.5°	854.9	849.2	843.6	849.2	854.9	856.2	864.6	875.8	881.4	892.2	913.7
165°	868.7	863.7	858.6	863.7	868.7	870.0	873.7	878.9	881.4	889.2	904.6
167.5°	877.1	874.7	872.4	874.7	877.1	877.7	880.9	885.2	887.3	892.4	902.5
170°	886.2	883.7	881.4	883.7	886.2	886.7	886.9	887.2	887.3	892.4	902.5
172.5°	887.2	886.6	886.2	886.6	887.2	887.3	887.3	887.3	887.3	891.3	899.3
175°	892.7	892.7	892.7	892.7	892.7	892.7	890.9	888.5	887.3	889.8	895.0
177.5°	892.7	892.7	892.7	892.7	892.7	892.7	891.4	889.5	888.6	890.6	894.6
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



TEST NUMBER: P934479

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	3917.7	3906.1	3921.4	3879.2	3921.4	3906.1	3917.7	3944.5	3921.4	3936.9	3952.3
5°	3437.5	3418.3	3356.9	3307.0	3356.9	3418.3	3437.5	3518.2	3556.6	3625.7	3718.0
7.5°	3072.7	3057.3	3042.0	3011.2	3042.0	3057.3	3072.7	3095.7	3134.1	3195.6	3264.8
10°	2992.0	2995.9	3018.9	3015.0	3018.9	2995.9	2992.0	2984.3	2972.8	2984.3	3026.6
12.5°	3199.4	3233.9	3360.7	3353.0	3360.7	3233.9	3199.4	3045.8	2942.1	2922.9	2930.5
15°	3437.5	3449.1	3476.0	3479.8	3476.0	3449.1	3437.5	3376.1	3064.9	2930.5	2888.3
17.5°	3460.6	3464.5	3483.7	3483.7	3483.7	3464.5	3460.6	3433.7	3330.0	3149.4	2911.4
20°	3441.4	3449.1	3487.4	3495.2	3487.4	3449.1	3441.4	3406.8	3349.3	3283.9	3103.4
22.5°	3433.7	3449.1	3479.8	3476.0	3479.8	3449.1	3433.7	3380.0	3330.0	3283.9	3211.0
25°	3395.3	3395.3	3399.2	3402.9	3399.2	3395.3	3395.3	3353.0	3253.2	3241.7	3199.4
27.5°	3314.7	3322.3	3345.4	3341.5	3345.4	3322.3	3314.7	3299.3	3191.7	3180.3	3149.4
30°	3241.7	3233.9	3214.8	3199.4	3214.8	3233.9	3241.7	3218.6	3111.1	3080.4	3088.0
32.5°	3118.7	3099.5	3080.4	3068.8	3080.4	3099.5	3118.7	3111.1	3030.5	2988.2	2995.9
35°	2972.8	2976.7	2972.8	2961.3	2972.8	2976.7	2972.8	2980.5	2930.5	2892.2	2888.3
37.5°	2869.1	2876.8	2873.0	2857.6	2873.0	2876.8	2869.1	2861.5	2792.3	2780.7	2788.5
40°	2761.6	2765.4	2761.6	2750.0	2761.6	2765.4	2761.6	2746.2	2650.2	2654.0	2680.9
42.5°	2657.9	2654.0	2642.5	2634.8	2642.5	2654.0	2657.9	2634.8	2511.9	2500.4	2550.3
45°	2538.8	2542.7	2519.6	2508.1	2519.6	2542.7	2538.8	2523.5	2396.7	2365.9	2400.5
47.5°	2419.7	2419.7	2400.5	2389.0	2400.5	2419.7	2419.7	2400.5	2266.1	2235.4	2254.6
50°	2292.9	2289.2	2262.2	2258.4	2262.2	2289.2	2292.9	2281.4	2139.4	2112.4	2112.4
52.5°	2147.0	2147.0	2150.9	2158.5	2150.9	2147.0	2147.0	2150.9	2024.1	1997.2	1989.6
55°	2020.3	2024.1	2051.0	2058.6	2051.0	2024.1	2020.3	2020.3	1905.1	1878.2	1862.8
57.5°	1889.6	1889.6	1908.9	1908.9	1908.9	1889.6	1889.6	1882.0	1770.7	1747.6	1739.9
60°	1739.9	1747.6	1762.9	1759.1	1762.9	1747.6	1739.9	1732.2	1636.2	1620.8	1593.9
62.5°	1582.4	1590.1	1593.9	1586.3	1593.9	1590.1	1582.4	1559.4	1501.8	1490.2	1455.6
65°	1417.3	1424.9	1428.8	1421.1	1428.8	1424.9	1417.3	1405.7	1363.5	1344.3	1313.6
67.5°	1248.3	1244.4	1240.6	1255.9	1240.6	1244.4	1248.3	1233.0	1206.0	1190.6	1148.4
70°	1075.4	1075.4	1071.6	1079.3	1071.6	1075.4	1075.4	1063.9	1048.6	1037.0	998.7
72.5°	891.1	887.2	902.6	891.1	902.6	887.2	891.1	887.2	879.6	868.0	829.7
75°	710.6	718.2	710.6	722.1	710.6	718.2	710.6	714.3	710.6	702.9	676.0
77.5°	541.6	549.2	541.6	541.6	541.6	549.2	541.6	545.4	545.4	545.4	522.4
80°	384.1	380.2	380.2	376.4	380.2	380.2	384.1	384.1	387.9	380.2	372.6
82.5°	245.8	242.0	242.0	249.6	242.0	242.0	245.8	249.6	242.0	242.0	242.0
85°	134.4	138.3	130.6	130.6	130.6	138.3	134.4	126.7	134.4	134.4	130.6
87.5°	49.9	46.1	46.1	46.1	46.1	46.1	49.9	53.8	53.8	53.8	57.7
90°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	30.3	40.5	45.5	39.1
92.5°	113.9	109.3	91.2	73.1	91.2	109.3	113.9	161.3	224.7	256.4	225.1
95°	386.4	372.7	317.8	263.0	317.8	372.7	386.4	507.5	668.8	749.5	633.0
97.5°	892.2	866.1	761.6	657.3	761.6	866.1	892.2	968.6	1070.6	1121.6	927.3
100°	1252.8	1221.7	1097.4	973.1	1097.4	1221.7	1252.8	1247.2	1239.7	1236.1	1020.5
102.5°	1560.8	1534.1	1427.6	1321.1	1427.6	1534.1	1560.8	1463.3	1333.3	1268.4	1049.8
105°	1920.3	1905.9	1848.8	1791.5	1848.8	1905.9	1920.3	1701.8	1410.5	1264.8	1053.1
107.5°	2107.3	2110.8	2124.5	2138.4	2124.5	2110.8	2107.3	1802.5	1396.1	1192.9	1006.3
110°	2155.2	2170.1	2229.7	2289.4	2229.7	2170.1	2155.2	1814.5	1360.2	1133.1	964.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2124.6	2147.5	2239.2	2330.7	2239.2	2147.5	2124.6	1775.9	1311.0	1078.5	928.4
115°	2020.9	2052.7	2179.8	2306.8	2179.8	2052.7	2020.9	1685.0	1237.1	1013.2	886.8
117.5°	1877.7	1912.9	2053.8	2194.7	2053.8	1912.9	1877.7	1574.5	1170.4	968.2	860.8
120°	1781.3	1815.5	1952.4	2089.3	1952.4	1815.5	1781.3	1504.3	1135.0	950.3	852.0
122.5°	1684.8	1718.5	1853.6	1988.6	1853.6	1718.5	1684.8	1435.4	1102.7	936.4	847.4
125°	1557.2	1588.3	1712.6	1837.0	1712.6	1588.3	1557.2	1345.3	1062.8	921.5	843.6
127.5°	1454.8	1481.0	1585.9	1690.8	1585.9	1481.0	1454.8	1272.8	1030.2	908.9	841.4
130°	1390.0	1414.3	1511.3	1608.2	1511.3	1414.3	1390.0	1228.1	1012.1	904.2	842.7
132.5°	1334.9	1356.6	1443.4	1530.2	1443.4	1356.6	1334.9	1189.9	996.6	899.9	843.6
135°	1257.1	1275.8	1350.6	1425.4	1350.6	1275.8	1257.1	1135.7	973.7	892.7	842.8
137.5°	1199.5	1214.8	1276.1	1337.3	1276.1	1214.8	1199.5	1096.9	960.0	891.6	848.1
140°	1153.4	1167.7	1224.9	1282.2	1224.9	1167.7	1153.4	1064.7	946.4	887.3	848.8
142.5°	1121.0	1133.3	1182.7	1231.9	1182.7	1133.3	1121.0	1043.1	939.3	887.3	851.9
145°	1072.5	1081.8	1119.1	1156.4	1119.1	1081.8	1072.5	1008.8	923.8	881.4	851.9
147.5°	1031.8	1039.5	1070.4	1101.3	1070.4	1039.5	1031.8	981.7	914.8	881.4	857.9
150°	1008.3	1014.6	1039.6	1064.7	1039.6	1014.6	1008.3	966.0	909.6	881.4	860.9
152.5°	989.8	994.6	1013.5	1032.4	1013.5	994.6	989.8	953.7	905.5	881.4	862.9
155°	967.6	970.7	983.3	995.8	983.3	970.7	967.6	938.9	900.6	881.4	867.3
157.5°	948.5	950.7	959.4	968.2	959.4	950.7	948.5	926.1	896.3	881.4	871.7
160°	938.9	940.1	945.3	950.3	945.3	940.1	938.9	919.7	894.2	881.4	873.7
162.5°	929.9	931.0	935.9	940.7	935.9	931.0	929.9	913.7	892.2	881.4	875.8
165°	916.1	917.4	922.5	927.5	922.5	917.4	916.1	904.6	889.2	881.4	878.9
167.5°	910.1	910.7	912.8	914.9	912.8	910.7	910.1	902.5	892.4	887.3	885.2
170°	910.1	910.1	910.1	910.1	910.1	910.1	910.1	902.5	892.4	887.3	887.2
172.5°	905.3	904.9	903.0	901.2	903.0	904.9	905.3	899.3	891.3	887.3	887.3
175°	898.7	898.7	898.7	898.7	898.7	898.7	898.7	895.0	889.8	887.3	888.5
177.5°	897.6	897.0	894.9	892.7	894.9	897.0	897.6	894.6	890.6	888.6	889.5
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4059.7	4059.7	4059.7	4059.7	4059.7
2.5°	4009.8	4029.0	4040.5	4055.9	4094.3
5°	3856.2	3929.2	3952.3	4009.8	4079.0
7.5°	3518.2	3741.0	3802.5	3940.7	4048.2
10°	3191.7	3414.5	3522.0	3848.5	4009.8
12.5°	3026.6	3157.2	3230.2	3687.2	3956.0
15°	2922.9	3015.0	3068.8	3472.1	3894.6
17.5°	2842.2	2907.5	2946.0	3260.9	3810.1
20°	2792.3	2823.0	2857.6	3107.2	3714.1
22.5°	2757.7	2738.5	2765.4	2999.7	3583.5
25°	2734.7	2661.7	2692.5	2915.2	3429.9
27.5°	2753.9	2592.6	2604.1	2838.4	3268.5
30°	2757.7	2508.1	2511.9	2757.7	3088.0
32.5°	2730.8	2419.7	2423.6	2657.9	2884.4
35°	2665.5	2316.0	2312.2	2542.7	2608.0
37.5°	2577.2	2204.7	2204.7	2415.9	2304.5
40°	2469.7	2093.2	2104.8	2250.7	2035.7
42.5°	2339.1	1974.1	1989.6	2031.8	1836.0
45°	2196.9	1858.9	1870.5	1716.9	1682.3
47.5°	2039.5	1739.9	1743.7	1424.9	1632.4
50°	1851.3	1617.0	1601.7	1221.4	1628.5
52.5°	1686.2	1482.6	1436.4	1106.1	1478.7
55°	1524.8	1340.4	1240.6	1017.8	1371.1
57.5°	1382.7	1156.1	1060.1	914.2	1348.2
60°	1252.1	975.6	902.6	802.7	1236.7
62.5°	1144.6	841.2	825.8	725.9	1121.5
65°	1029.4	748.9	745.2	660.7	952.5
67.5°	917.9	687.5	683.6	599.1	725.9
70°	798.9	622.2	614.5	533.9	537.7
72.5°	676.0	549.2	541.6	480.1	445.5
75°	553.1	464.7	460.9	418.6	361.0
77.5°	434.0	368.7	376.4	338.0	265.0
80°	311.1	268.9	276.6	242.0	199.7
82.5°	207.4	176.6	184.4	153.6	134.4
85°	115.2	99.9	103.7	80.6	61.4
87.5°	53.8	46.1	46.1	30.7	19.2
90°	26.4	16.8	15.6	10.8	6.0
92.5°	162.5	115.6	105.4	64.6	23.9
95°	400.0	225.3	206.7	132.1	57.6
97.5°	538.9	247.5	231.0	165.2	99.4
100°	589.3	266.0	251.1	191.5	131.8
102.5°	612.5	284.6	270.6	215.0	159.4
105°	629.7	312.1	300.3	253.2	206.1
107.5°	633.0	352.9	342.0	298.0	254.1
110°	628.1	375.7	365.8	326.1	286.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	628.3	403.2	393.7	355.9	318.1
115°	634.1	444.6	435.9	401.0	366.1
117.5°	645.8	484.7	476.7	445.1	413.4
120°	655.4	508.0	500.6	470.8	441.0
122.5°	669.3	535.7	528.1	498.1	467.9
125°	687.9	571.0	564.2	536.7	509.3
127.5°	706.4	605.1	598.3	570.5	542.8
130°	720.0	627.9	620.5	590.7	560.9
132.5°	731.0	646.5	639.1	609.2	579.4
135°	742.9	668.0	661.2	634.1	607.0
137.5°	761.0	695.6	689.0	662.0	635.1
140°	771.9	714.2	708.0	683.2	658.4
142.5°	781.1	728.0	722.3	699.3	676.5
145°	793.1	748.9	743.9	723.9	704.0
147.5°	810.7	775.3	770.5	751.0	731.6
150°	819.9	789.1	784.7	767.1	749.5
152.5°	825.9	798.1	794.8	781.4	768.1
155°	839.1	817.8	815.4	805.5	795.6
157.5°	852.2	837.6	835.2	825.7	816.1
160°	858.2	846.6	844.8	837.3	829.9
162.5°	864.6	856.2	854.9	849.2	843.6
165°	873.7	870.0	868.7	863.7	858.6
167.5°	880.9	877.7	877.1	874.7	872.4
170°	886.9	886.7	886.2	883.7	881.4
172.5°	887.3	887.3	887.2	886.6	886.2
175°	890.9	892.7	892.7	892.7	892.7
177.5°	891.4	892.7	892.7	892.7	892.7
180°	892.7	892.7	892.7	892.7	892.7



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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	14.85	15.86	15.67	16.70	17.75	17.70	18.71	18.52	19.55	20.60
	3H	15.33	16.24	16.17	17.09	18.17	19.06	19.97	19.90	20.82	21.89
	4H	15.53	16.39	16.38	17.25	18.33	19.52	20.37	20.37	21.23	22.32
	6H	15.66	16.45	16.52	17.31	18.41	19.81	20.60	20.68	21.47	22.57
	8H	15.66	16.41	16.54	17.30	18.40	19.90	20.65	20.77	21.53	22.63
	12H	15.64	16.35	16.52	17.23	18.36	19.94	20.66	20.82	21.54	22.66
4H	2H	15.90	16.76	16.76	17.62	18.70	18.12	18.98	18.98	19.84	20.92
	3H	16.94	17.65	17.81	18.55	19.65	19.65	20.36	20.52	21.26	22.36
	4H	17.22	17.87	18.10	18.76	19.89	20.19	20.84	21.07	21.73	22.86
	6H	17.36	17.92	18.25	18.83	19.96	20.57	21.13	21.46	22.04	23.17
	8H	17.37	17.89	18.27	18.80	19.94	20.68	21.20	21.58	22.11	23.26
	12H	17.34	17.81	18.26	18.74	19.89	20.75	21.22	21.67	22.15	23.30
8H	4H	17.69	18.22	18.59	19.13	20.27	20.32	20.85	21.22	21.76	22.90
	6H	17.96	18.39	18.89	19.34	20.49	20.77	21.21	21.70	22.16	23.30
	8H	18.01	18.39	18.94	19.33	20.49	20.93	21.31	21.86	22.26	23.42
	12H	18.00	18.33	18.93	19.27	20.48	21.04	21.38	21.98	22.31	23.52
12H	4H	17.71	18.18	18.63	19.11	20.26	20.30	20.77	21.21	21.69	22.84
	6H	18.02	18.41	18.96	19.35	20.51	20.77	21.15	21.71	22.10	23.26
	8H	18.10	18.44	19.04	19.37	20.58	20.94	21.28	21.88	22.21	23.43