

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: P934381

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

**Test Information**

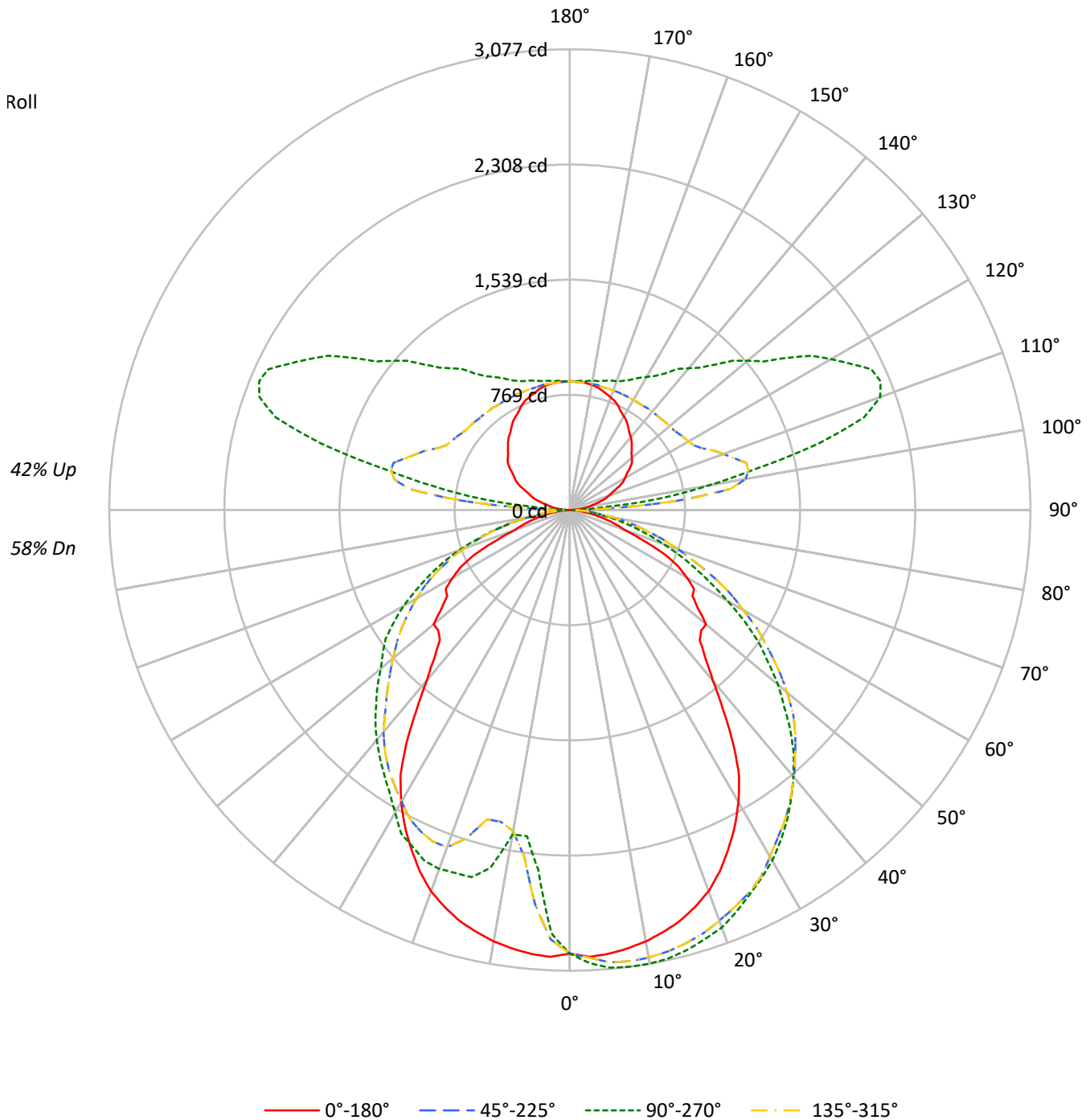
Test Method: LM-79-2019  
Report Number: P934381  
REPORT IS A COMBINATION OF REPORTS P933693 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13260.8 lumens  
Efficiency: N/A  
Efficacy: 121.4 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: General Diffuse  
  
Input Watts (W): 109.2  
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58		
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49		
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41		
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35		
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30		
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26		
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23		
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20		
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18		
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16		
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9161	9161	9161	9161
5°	9233	9248	9233	7271
10°	9175	9109	9175	6513
15°	9078	8912	9078	7442
20°	8892	8678	8892	7457
25°	8507	8337	8507	7299
30°	8008	8054	8008	6952
35°	7142	7696	7142	6571
40°	5955	7274	5955	6283
45°	5324	6781	5324	5951
50°	5660	6192	5660	5619
55°	5331	5558	5331	5427
60°	5502	4721	5502	4970
65°	4997	3902	4997	4362
70°	3468	3110	3468	3657
75°	3053	2299	3053	2753
80°	2478	1520	2478	1655
85°	1452	805	1452	684

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8155 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.4	2.0
10°-20°	759.1	5.7
20°-30°	1173.4	8.8
30°-40°	1400.8	10.6
40°-50°	1409.0	10.6
50°-60°	1226.0	9.2
60°-70°	869.2	6.6
70°-80°	459.9	3.5
80°-90°	117.8	0.9
90°-100°	419.4	3.2
100°-110°	1102.8	8.3
110°-120°	1143.4	8.6
120°-130°	917.2	6.9
130°-140°	719.7	5.4
140°-150°	552.4	4.2
150°-160°	397.8	3.0
160°-170°	243.4	1.8
170°-180°	82.2	0.6
0°-30°	2199.9	16.6
0°-40°	3600.6	27.2
0°-60°	6235.6	47.0
0°-90°	7682.6	57.9
90°-120°	2665.6	20.1
90°-150°	4854.8	36.6
90°-180°	5578.0	42.1
0°-180°	13260.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2962	2962	2962	2962	2962	
5°	2976	3068	2976	2412	2976	282
15°	2841	3040	2841	2539	2841	799
25°	2502	2836	2502	2483	2502	1149
35°	1903	2530	1903	2160	1903	1177
45°	1227	2085	1227	1830	1227	983
55°	1000	1538	1000	1502	1000	919
65°	695	928	695	1037	695	664
75°	263	440	263	527	263	277
85°	45	112	45	95	45	61
90°	6	22	6	22	6	7
95°	56	254	56	254	56	62
105°	199	1727	199	1727	199	211
115°	353	2224	353	2224	353	348
125°	491	1771	491	1771	491	436
135°	585	1374	585	1374	585	453
145°	679	1115	679	1115	679	425
155°	767	960	767	960	767	352
165°	828	894	828	894	828	234
175°	860	866	860	866	860	82
180°	860	860	860	860	860	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	2987.0	2987.0	3003.8	3009.4	3009.4	3001.0	2992.6	3001.0	3026.3	3034.7	3031.9
5°	2975.8	2998.2	3029.1	3034.7	3040.3	3037.5	3031.9	3037.5	3065.5	3071.1	3073.9
7.5°	2953.4	2995.4	3034.7	3043.1	3051.5	3043.1	3040.3	3045.9	3073.9	3079.5	3079.5
10°	2925.4	2984.2	3029.1	3034.7	3043.1	3034.7	3034.7	3045.9	3073.9	3079.5	3082.3
12.5°	2886.2	2967.4	3009.4	3015.0	3026.3	3023.5	3020.6	3031.9	3059.9	3065.5	3065.5
15°	2841.3	2936.6	2975.8	2981.4	3001.0	2995.4	2995.4	3006.6	3037.5	3045.9	3043.1
17.5°	2779.7	2897.4	2942.2	2950.6	2964.6	2961.8	2964.6	2975.8	3003.8	3009.4	3012.2
20°	2709.6	2844.1	2897.4	2905.8	2919.8	2919.8	2919.8	2933.8	2961.8	2973.0	2973.0
22.5°	2614.4	2788.1	2844.1	2849.7	2866.5	2866.5	2872.1	2891.8	2917.0	2919.8	2919.8
25°	2502.3	2726.4	2774.1	2790.9	2807.7	2816.1	2824.5	2835.7	2844.1	2841.3	2844.1
27.5°	2384.5	2648.0	2709.6	2720.8	2743.3	2751.7	2762.9	2765.7	2768.5	2776.9	2771.3
30°	2252.8	2538.7	2631.2	2642.4	2678.8	2684.4	2673.2	2678.8	2692.8	2698.4	2704.0
32.5°	2104.3	2376.1	2549.9	2575.1	2608.8	2591.9	2589.1	2597.5	2620.0	2620.0	2625.6
35°	1902.6	2250.0	2474.3	2496.7	2521.9	2502.3	2513.5	2516.3	2530.3	2538.7	2535.9
37.5°	1681.2	2140.7	2395.7	2412.5	2432.1	2406.9	2423.7	2432.1	2443.3	2437.7	2437.7
40°	1485.1	1969.8	2303.2	2314.5	2331.3	2311.6	2328.5	2334.1	2339.7	2334.1	2331.3
42.5°	1339.4	1782.1	2205.2	2219.2	2208.0	2222.0	2227.6	2238.8	2230.4	2219.2	2219.2
45°	1227.3	1731.6	2098.7	2115.5	2098.7	2121.1	2129.5	2129.5	2104.3	2098.7	2095.9
47.5°	1190.9	1630.8	1992.2	1992.2	1983.8	2011.8	2025.8	2006.2	1981.0	1972.6	1972.6
50°	1188.0	1518.7	1846.5	1835.3	1874.5	1908.2	1894.2	1874.5	1854.9	1824.1	1824.1
52.5°	1078.8	1381.4	1658.8	1700.8	1762.5	1782.1	1759.7	1740.0	1706.4	1692.4	1681.2
55°	1000.3	1238.5	1487.9	1571.9	1636.4	1661.6	1619.6	1599.9	1549.5	1541.1	1535.5
57.5°	983.5	1031.1	1331.0	1437.4	1515.9	1513.1	1487.9	1451.4	1409.4	1401.0	1398.2
60°	902.2	745.3	1162.8	1288.9	1370.2	1361.8	1339.4	1305.7	1266.5	1260.9	1255.3
62.5°	818.2	540.8	972.3	1115.2	1230.1	1227.3	1207.7	1157.2	1129.2	1115.2	1104.0
65°	694.9	453.9	692.1	927.5	1092.8	1098.4	1056.4	1019.9	989.1	972.3	969.5
67.5°	529.6	369.9	467.9	773.4	961.1	955.5	902.2	885.4	846.2	837.8	821.0
70°	392.3	246.6	325.0	627.6	832.2	818.2	776.2	756.5	720.1	700.5	689.3
72.5°	325.0	198.9	238.2	487.5	700.5	683.7	647.3	624.8	594.0	577.2	566.0
75°	263.4	210.2	182.1	361.5	568.8	557.6	524.0	501.6	476.3	453.9	456.7
77.5°	193.3	196.1	145.7	266.2	451.1	434.3	414.7	386.7	375.5	353.1	353.1
80°	145.7	154.1	109.3	182.1	325.0	325.0	308.2	288.6	269.0	257.8	257.8
82.5°	98.1	98.1	81.3	114.9	221.4	213.0	201.7	196.1	184.9	179.3	179.3
85°	44.8	56.0	50.4	70.0	120.5	126.1	126.1	120.5	117.7	112.1	114.9
87.5°	14.0	25.2	30.8	39.2	61.6	64.4	67.2	67.2	67.2	70.0	70.0
90°	5.8	10.4	15.0	16.2	25.4	37.7	43.9	39.0	29.2	21.9	21.9
92.5°	23.1	62.3	101.6	111.4	156.6	217.0	247.1	216.6	155.5	109.7	105.4
95°	55.5	127.3	199.2	217.2	385.6	610.2	722.4	644.6	489.1	372.5	359.2
97.5°	95.8	159.2	222.7	238.5	519.4	893.8	1081.1	1032.0	933.6	859.9	834.8
100°	127.0	184.6	242.0	256.4	568.1	983.6	1191.4	1195.0	1202.2	1207.6	1177.6
102.5°	153.6	207.3	260.9	274.3	590.4	1011.9	1222.6	1285.2	1410.4	1504.4	1478.7
105°	198.7	244.1	289.4	300.8	606.9	1015.1	1219.2	1359.5	1640.3	1850.9	1837.1
107.5°	244.9	287.2	329.6	340.2	610.1	970.0	1149.8	1345.7	1737.4	2031.2	2034.5
110°	276.1	314.3	352.6	362.1	605.4	929.9	1092.1	1311.1	1748.9	2077.3	2091.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	306.6	343.1	379.5	388.6	605.6	894.9	1039.5	1263.6	1711.7	2047.9	2069.9
115°	352.9	386.5	420.1	428.5	611.2	854.8	976.6	1192.4	1624.1	1948.0	1978.6
117.5°	398.4	429.0	459.5	467.2	622.5	829.7	933.3	1128.1	1517.7	1809.9	1843.8
120°	425.1	453.8	482.5	489.7	631.8	821.3	916.0	1094.0	1449.9	1717.0	1749.9
122.5°	451.0	480.1	509.0	516.3	645.1	816.8	902.6	1062.9	1383.5	1623.9	1656.4
125°	490.9	517.3	543.8	550.4	663.0	813.1	888.2	1024.4	1296.7	1500.9	1530.9
127.5°	523.2	549.9	576.7	583.3	680.9	811.0	876.1	993.0	1226.8	1402.2	1427.5
130°	540.6	569.4	598.0	605.2	694.0	812.3	871.5	975.6	1183.8	1339.8	1363.2
132.5°	558.4	587.2	616.0	623.2	704.6	813.1	867.4	960.6	1147.0	1286.7	1307.6
135°	585.1	611.2	637.4	643.9	716.1	812.4	860.5	938.6	1094.6	1211.7	1229.7
137.5°	612.1	638.1	664.1	670.5	733.5	817.4	859.4	925.3	1057.3	1156.2	1171.0
140°	634.7	658.6	682.4	688.4	744.0	818.2	855.3	912.2	1026.3	1111.7	1125.6
142.5°	652.0	674.1	696.2	701.7	752.9	821.2	855.3	905.3	1005.5	1080.5	1092.4
145°	678.6	697.8	717.0	721.9	764.5	821.2	849.6	890.5	972.4	1033.8	1042.7
147.5°	705.2	723.8	742.6	747.3	781.4	826.9	849.6	881.8	946.2	994.5	1002.0
150°	722.4	739.4	756.4	760.6	790.3	829.8	849.6	876.7	931.1	971.9	978.0
152.5°	740.4	753.2	766.1	769.2	796.0	831.7	849.6	872.8	919.2	954.1	958.7
155°	766.9	776.4	786.0	788.3	808.8	835.9	849.6	868.1	905.0	932.7	935.7
157.5°	786.6	795.9	805.0	807.3	821.5	840.2	849.6	864.0	892.6	914.2	916.3
160°	799.9	807.1	814.3	816.0	827.2	842.1	849.6	861.9	886.5	905.0	906.2
162.5°	813.1	818.6	824.0	825.3	833.4	844.1	849.6	859.9	880.7	896.3	897.4
165°	827.6	832.5	837.3	838.5	842.2	847.1	849.6	857.0	871.9	883.0	884.2
167.5°	840.9	843.1	845.5	846.0	849.1	853.2	855.3	860.1	869.9	877.2	877.8
170°	849.6	851.8	854.1	854.7	854.9	855.2	855.3	860.1	869.9	877.2	877.2
172.5°	854.1	854.6	855.2	855.3	855.3	855.3	855.3	859.1	866.8	872.6	872.2
175°	860.5	860.5	860.5	860.5	858.7	856.4	855.3	857.7	862.6	866.3	866.3
177.5°	860.5	860.5	860.5	860.5	859.2	857.4	856.5	858.4	862.3	865.2	864.6
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	3037.5	3029.1	3037.5	3031.9	3034.7	3026.3	3001.0	2992.6	3001.0	3009.4	3009.4
5°	3073.9	3068.3	3073.9	3073.9	3071.1	3065.5	3037.5	3031.9	3037.5	3040.3	3034.7
7.5°	3085.1	3076.7	3085.1	3079.5	3079.5	3073.9	3045.9	3040.3	3043.1	3051.5	3043.1
10°	3085.1	3076.7	3085.1	3082.3	3079.5	3073.9	3045.9	3034.7	3034.7	3043.1	3034.7
12.5°	3071.1	3065.5	3071.1	3065.5	3065.5	3059.9	3031.9	3020.6	3023.5	3026.3	3015.0
15°	3048.7	3040.3	3048.7	3043.1	3045.9	3037.5	3006.6	2995.4	2995.4	3001.0	2981.4
17.5°	3015.0	3003.8	3015.0	3012.2	3009.4	3003.8	2975.8	2964.6	2961.8	2964.6	2950.6
20°	2975.8	2967.4	2975.8	2973.0	2973.0	2961.8	2933.8	2919.8	2919.8	2919.8	2905.8
22.5°	2914.2	2905.8	2914.2	2919.8	2919.8	2917.0	2891.8	2872.1	2866.5	2866.5	2849.7
25°	2844.1	2835.7	2844.1	2844.1	2841.3	2844.1	2835.7	2824.5	2816.1	2807.7	2790.9
27.5°	2776.9	2771.3	2776.9	2771.3	2776.9	2768.5	2765.7	2762.9	2751.7	2743.3	2720.8
30°	2709.6	2704.0	2709.6	2704.0	2698.4	2692.8	2678.8	2673.2	2684.4	2678.8	2642.4
32.5°	2625.6	2620.0	2625.6	2625.6	2620.0	2620.0	2597.5	2589.1	2591.9	2608.8	2575.1
35°	2538.7	2530.3	2538.7	2535.9	2538.7	2530.3	2516.3	2513.5	2502.3	2521.9	2496.7
37.5°	2437.7	2429.3	2437.7	2437.7	2437.7	2443.3	2432.1	2423.7	2406.9	2432.1	2412.5
40°	2334.1	2322.9	2334.1	2331.3	2334.1	2339.7	2334.1	2328.5	2311.6	2331.3	2314.5
42.5°	2216.4	2213.6	2216.4	2219.2	2219.2	2230.4	2238.8	2227.6	2222.0	2208.0	2219.2
45°	2090.3	2084.7	2090.3	2095.9	2098.7	2104.3	2129.5	2129.5	2121.1	2098.7	2115.5
47.5°	1955.8	1941.8	1955.8	1972.6	1972.6	1981.0	2006.2	2025.8	2011.8	1983.8	1992.2
50°	1812.9	1815.7	1812.9	1824.1	1824.1	1854.9	1874.5	1894.2	1908.2	1874.5	1835.3
52.5°	1672.8	1670.0	1672.8	1681.2	1692.4	1706.4	1740.0	1759.7	1782.1	1762.5	1700.8
55°	1532.7	1538.3	1532.7	1535.5	1541.1	1549.5	1599.9	1619.6	1661.6	1636.4	1571.9
57.5°	1392.6	1384.2	1392.6	1398.2	1401.0	1409.4	1451.4	1487.9	1513.1	1515.9	1437.4
60°	1230.1	1218.9	1230.1	1255.3	1260.9	1266.5	1305.7	1339.4	1361.8	1370.2	1288.9
62.5°	1087.2	1067.6	1087.2	1104.0	1115.2	1129.2	1157.2	1207.7	1227.3	1230.1	1115.2
65°	935.9	927.5	935.9	969.5	972.3	989.1	1019.9	1056.4	1098.4	1092.8	927.5
67.5°	798.6	798.6	798.6	821.0	837.8	846.2	885.4	902.2	955.5	961.1	773.4
70°	672.5	669.7	672.5	689.3	700.5	720.1	756.5	776.2	818.2	832.2	627.6
72.5°	552.0	549.2	552.0	566.0	577.2	594.0	624.8	647.3	683.7	700.5	487.5
75°	445.5	439.9	445.5	456.7	453.9	476.3	501.6	524.0	557.6	568.8	361.5
77.5°	341.8	341.8	341.8	353.1	353.1	375.5	386.7	414.7	434.3	451.1	266.2
80°	255.0	252.2	255.0	257.8	257.8	269.0	288.6	308.2	325.0	325.0	182.1
82.5°	179.3	173.7	179.3	179.3	179.3	184.9	196.1	201.7	213.0	221.4	114.9
85°	112.1	112.1	112.1	114.9	112.1	117.7	120.5	126.1	126.1	120.5	70.0
87.5°	72.9	70.0	72.9	70.0	70.0	67.2	67.2	67.2	64.4	61.6	39.2
90°	21.9	21.9	21.9	21.9	21.9	29.2	39.0	43.9	37.7	25.4	16.2
92.5°	87.9	70.4	87.9	105.4	109.7	155.5	216.6	247.1	217.0	156.6	111.4
95°	306.4	253.5	306.4	359.2	372.5	489.1	644.6	722.4	610.2	385.6	217.2
97.5°	734.1	633.5	734.1	834.8	859.9	933.6	1032.0	1081.1	893.8	519.4	238.5
100°	1057.8	937.9	1057.8	1177.6	1207.6	1202.2	1195.0	1191.4	983.6	568.1	256.4
102.5°	1376.1	1273.4	1376.1	1478.7	1504.4	1410.4	1285.2	1222.6	1011.9	590.4	274.3
105°	1782.0	1726.8	1782.0	1837.1	1850.9	1640.3	1359.5	1219.2	1015.1	606.9	300.8
107.5°	2047.8	2061.2	2047.8	2034.5	2031.2	1737.4	1345.7	1149.8	970.0	610.1	340.2
110°	2149.1	2206.7	2149.1	2091.7	2077.3	1748.9	1311.1	1092.1	929.9	605.4	362.1





TEST NUMBER: P934381

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2158.3	2246.6	2158.3	2069.9	2047.9	1711.7	1263.6	1039.5	894.9	605.6	388.6
115°	2101.0	2223.5	2101.0	1978.6	1948.0	1624.1	1192.4	976.6	854.8	611.2	428.5
117.5°	1979.6	2115.4	1979.6	1843.8	1809.9	1517.7	1128.1	933.3	829.7	622.5	467.2
120°	1881.9	2013.8	1881.9	1749.9	1717.0	1449.9	1094.0	916.0	821.3	631.8	489.7
122.5°	1786.6	1916.8	1786.6	1656.4	1623.9	1383.5	1062.9	902.6	816.8	645.1	516.3
125°	1650.8	1770.7	1650.8	1530.9	1500.9	1296.7	1024.4	888.2	813.1	663.0	550.4
127.5°	1528.6	1629.7	1528.6	1427.5	1402.2	1226.8	993.0	876.1	811.0	680.9	583.3
130°	1456.7	1550.1	1456.7	1363.2	1339.8	1183.8	975.6	871.5	812.3	694.0	605.2
132.5°	1391.3	1475.0	1391.3	1307.6	1286.7	1147.0	960.6	867.4	813.1	704.6	623.2
135°	1301.8	1373.9	1301.8	1229.7	1211.7	1094.6	938.6	860.5	812.4	716.1	643.9
137.5°	1230.0	1289.0	1230.0	1171.0	1156.2	1057.3	925.3	859.4	817.4	733.5	670.5
140°	1180.7	1235.9	1180.7	1125.6	1111.7	1026.3	912.2	855.3	818.2	744.0	688.4
142.5°	1139.9	1187.4	1139.9	1092.4	1080.5	1005.5	905.3	855.3	821.2	752.9	701.7
145°	1078.7	1114.6	1078.7	1042.7	1033.8	972.4	890.5	849.6	821.2	764.5	721.9
147.5°	1031.7	1061.5	1031.7	1002.0	994.5	946.2	881.8	849.6	826.9	781.4	747.3
150°	1002.1	1026.3	1002.1	978.0	971.9	931.1	876.7	849.6	829.8	790.3	760.6
152.5°	976.9	995.1	976.9	958.7	954.1	919.2	872.8	849.6	831.7	796.0	769.2
155°	947.8	959.9	947.8	935.7	932.7	905.0	868.1	849.6	835.9	808.8	788.3
157.5°	924.8	933.3	924.8	916.3	914.2	892.6	864.0	849.6	840.2	821.5	807.3
160°	911.1	916.0	911.1	906.2	905.0	886.5	861.9	849.6	842.1	827.2	816.0
162.5°	902.1	906.7	902.1	897.4	896.3	880.7	859.9	849.6	844.1	833.4	825.3
165°	889.2	894.0	889.2	884.2	883.0	871.9	857.0	849.6	847.1	842.2	838.5
167.5°	879.8	881.9	879.8	877.8	877.2	869.9	860.1	855.3	853.2	849.1	846.0
170°	877.2	877.2	877.2	877.2	877.2	869.9	860.1	855.3	855.2	854.9	854.7
172.5°	870.4	868.6	870.4	872.2	872.6	866.8	859.1	855.3	855.3	855.3	855.3
175°	866.3	866.3	866.3	866.3	866.3	862.6	857.7	855.3	856.4	858.7	860.5
177.5°	862.5	860.5	862.5	864.6	865.2	862.3	858.4	856.5	857.4	859.2	860.5
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



TEST NUMBER: P934381  
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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	3003.8	2987.0	2987.0	2959.0	2947.8	2939.4	2925.4	2883.4	2872.1	2860.9	2877.7
5°	3029.1	2998.2	2975.8	2925.4	2883.4	2866.5	2813.3	2712.4	2645.2	2594.7	2566.7
7.5°	3034.7	2995.4	2953.4	2874.9	2774.1	2729.2	2566.7	2381.7	2331.3	2286.4	2258.4
10°	3029.1	2984.2	2925.4	2807.7	2569.5	2491.1	2328.5	2208.0	2177.2	2168.7	2177.2
12.5°	3009.4	2967.4	2886.2	2690.0	2356.5	2303.2	2208.0	2137.9	2132.3	2146.3	2222.0
15°	2975.8	2936.6	2841.3	2533.1	2238.8	2199.6	2132.3	2107.1	2137.9	2236.0	2463.0
17.5°	2942.2	2897.4	2779.7	2378.9	2149.1	2121.1	2073.5	2123.9	2297.6	2429.3	2505.1
20°	2897.4	2844.1	2709.6	2266.8	2084.7	2059.5	2037.1	2264.0	2395.7	2443.3	2485.5
22.5°	2844.1	2788.1	2614.4	2188.4	2017.4	1997.8	2011.8	2342.5	2395.7	2429.3	2465.8
25°	2774.1	2726.4	2502.3	2126.7	1964.2	1941.8	1995.0	2334.1	2364.9	2373.3	2446.1
27.5°	2709.6	2648.0	2384.5	2070.7	1899.8	1891.4	2009.0	2297.6	2320.1	2328.5	2406.9
30°	2631.2	2538.7	2252.8	2011.8	1832.5	1829.7	2011.8	2252.8	2247.2	2269.6	2348.1
32.5°	2549.9	2376.1	2104.3	1939.0	1768.1	1765.3	1992.2	2185.6	2180.0	2210.8	2269.6
35°	2474.3	2250.0	1902.6	1854.9	1686.8	1689.6	1944.6	2107.1	2109.9	2137.9	2174.4
37.5°	2395.7	2140.7	1681.2	1762.5	1608.3	1608.3	1880.1	2034.3	2028.6	2037.1	2087.5
40°	2303.2	1969.8	1485.1	1642.0	1535.5	1527.1	1801.7	1955.8	1936.2	1933.4	2003.4
42.5°	2205.2	1782.1	1339.4	1482.3	1451.4	1440.2	1706.4	1860.5	1824.1	1832.5	1922.2
45°	2098.7	1731.6	1227.3	1252.5	1364.6	1356.2	1602.7	1751.2	1726.0	1748.4	1840.9
47.5°	1992.2	1630.8	1190.9	1039.5	1272.1	1269.3	1487.9	1644.8	1630.8	1653.2	1751.2
50°	1846.5	1518.7	1188.0	891.0	1168.4	1179.6	1350.6	1541.1	1541.1	1560.7	1664.4
52.5°	1658.8	1381.4	1078.8	807.0	1047.9	1081.6	1230.1	1451.4	1457.0	1476.7	1569.1
55°	1487.9	1238.5	1000.3	742.5	905.0	977.9	1112.4	1359.0	1370.2	1389.8	1473.9
57.5°	1331.0	1031.1	983.5	666.9	773.4	843.4	1008.7	1269.3	1274.9	1291.7	1373.0
60°	1162.8	745.3	902.2	585.6	658.5	711.7	913.5	1162.8	1182.4	1193.7	1263.7
62.5°	972.3	540.8	818.2	529.6	602.4	613.6	835.0	1062.0	1087.2	1095.6	1137.6
65°	692.1	453.9	694.9	481.9	543.6	546.4	750.9	958.3	980.7	994.7	1025.5
67.5°	467.9	369.9	529.6	437.1	498.8	501.6	669.7	837.8	868.6	879.8	899.4
70°	325.0	246.6	392.3	389.5	448.3	453.9	582.8	728.5	756.5	764.9	776.2
72.5°	238.2	198.9	325.0	350.2	395.1	400.7	493.2	605.2	633.3	641.7	647.3
75°	182.1	210.2	263.4	305.4	336.2	339.0	403.5	493.2	512.8	518.4	521.2
77.5°	145.7	196.1	193.3	246.6	274.6	269.0	316.6	381.1	397.9	397.9	397.9
80°	109.3	154.1	145.7	176.5	201.7	196.1	227.0	271.8	277.4	283.0	280.2
82.5°	81.3	98.1	98.1	112.1	134.5	128.9	151.3	176.5	176.5	176.5	182.1
85°	50.4	56.0	44.8	58.8	75.7	72.9	84.1	95.3	98.1	98.1	92.5
87.5°	30.8	25.2	14.0	22.4	33.6	33.6	39.2	42.0	39.2	39.2	39.2
90°	15.0	10.4	5.8	10.4	15.0	16.2	25.4	37.7	43.9	39.0	29.2
92.5°	101.6	62.3	23.1	62.3	101.6	111.4	156.6	217.0	247.1	216.6	155.5
95°	199.2	127.3	55.5	127.3	199.2	217.2	385.6	610.2	722.4	644.6	489.1
97.5°	222.7	159.2	95.8	159.2	222.7	238.5	519.4	893.8	1081.1	1032.0	933.6
100°	242.0	184.6	127.0	184.6	242.0	256.4	568.1	983.6	1191.4	1195.0	1202.2
102.5°	260.9	207.3	153.6	207.3	260.9	274.3	590.4	1011.9	1222.6	1285.2	1410.4
105°	289.4	244.1	198.7	244.1	289.4	300.8	606.9	1015.1	1219.2	1359.5	1640.3
107.5°	329.6	287.2	244.9	287.2	329.6	340.2	610.1	970.0	1149.8	1345.7	1737.4
110°	352.6	314.3	276.1	314.3	352.6	362.1	605.4	929.9	1092.1	1311.1	1748.9



TEST NUMBER: P934381

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	379.5	343.1	306.6	343.1	379.5	388.6	605.6	894.9	1039.5	1263.6	1711.7
115°	420.1	386.5	352.9	386.5	420.1	428.5	611.2	854.8	976.6	1192.4	1624.1
117.5°	459.5	429.0	398.4	429.0	459.5	467.2	622.5	829.7	933.3	1128.1	1517.7
120°	482.5	453.8	425.1	453.8	482.5	489.7	631.8	821.3	916.0	1094.0	1449.9
122.5°	509.0	480.1	451.0	480.1	509.0	516.3	645.1	816.8	902.6	1062.9	1383.5
125°	543.8	517.3	490.9	517.3	543.8	550.4	663.0	813.1	888.2	1024.4	1296.7
127.5°	576.7	549.9	523.2	549.9	576.7	583.3	680.9	811.0	876.1	993.0	1226.8
130°	598.0	569.4	540.6	569.4	598.0	605.2	694.0	812.3	871.5	975.6	1183.8
132.5°	616.0	587.2	558.4	587.2	616.0	623.2	704.6	813.1	867.4	960.6	1147.0
135°	637.4	611.2	585.1	611.2	637.4	643.9	716.1	812.4	860.5	938.6	1094.6
137.5°	664.1	638.1	612.1	638.1	664.1	670.5	733.5	817.4	859.4	925.3	1057.3
140°	682.4	658.6	634.7	658.6	682.4	688.4	744.0	818.2	855.3	912.2	1026.3
142.5°	696.2	674.1	652.0	674.1	696.2	701.7	752.9	821.2	855.3	905.3	1005.5
145°	717.0	697.8	678.6	697.8	717.0	721.9	764.5	821.2	849.6	890.5	972.4
147.5°	742.6	723.8	705.2	723.8	742.6	747.3	781.4	826.9	849.6	881.8	946.2
150°	756.4	739.4	722.4	739.4	756.4	760.6	790.3	829.8	849.6	876.7	931.1
152.5°	766.1	753.2	740.4	753.2	766.1	769.2	796.0	831.7	849.6	872.8	919.2
155°	786.0	776.4	766.9	776.4	786.0	788.3	808.8	835.9	849.6	868.1	905.0
157.5°	805.0	795.9	786.6	795.9	805.0	807.3	821.5	840.2	849.6	864.0	892.6
160°	814.3	807.1	799.9	807.1	814.3	816.0	827.2	842.1	849.6	861.9	886.5
162.5°	824.0	818.6	813.1	818.6	824.0	825.3	833.4	844.1	849.6	859.9	880.7
165°	837.3	832.5	827.6	832.5	837.3	838.5	842.2	847.1	849.6	857.0	871.9
167.5°	845.5	843.1	840.9	843.1	845.5	846.0	849.1	853.2	855.3	860.1	869.9
170°	854.1	851.8	849.6	851.8	854.1	854.7	854.9	855.2	855.3	860.1	869.9
172.5°	855.2	854.6	854.1	854.6	855.2	855.3	855.3	855.3	855.3	859.1	866.8
175°	860.5	860.5	860.5	860.5	860.5	860.5	858.7	856.4	855.3	857.7	862.6
177.5°	860.5	860.5	860.5	860.5	860.5	860.5	859.2	857.4	856.5	858.4	862.3
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



TEST NUMBER: P934381

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	2858.1	2849.7	2860.9	2830.1	2860.9	2849.7	2858.1	2877.7	2860.9	2872.1	2883.4
5°	2507.9	2493.9	2448.9	2412.5	2448.9	2493.9	2507.9	2566.7	2594.7	2645.2	2712.4
7.5°	2241.6	2230.4	2219.2	2196.8	2219.2	2230.4	2241.6	2258.4	2286.4	2331.3	2381.7
10°	2182.8	2185.6	2202.4	2199.6	2202.4	2185.6	2182.8	2177.2	2168.7	2177.2	2208.0
12.5°	2334.1	2359.3	2451.8	2446.1	2451.8	2359.3	2334.1	2222.0	2146.3	2132.3	2137.9
15°	2507.9	2516.3	2535.9	2538.7	2535.9	2516.3	2507.9	2463.0	2236.0	2137.9	2107.1
17.5°	2524.7	2527.5	2541.5	2541.5	2541.5	2527.5	2524.7	2505.1	2429.3	2297.6	2123.9
20°	2510.7	2516.3	2544.3	2549.9	2544.3	2516.3	2510.7	2485.5	2443.3	2395.7	2264.0
22.5°	2505.1	2516.3	2538.7	2535.9	2538.7	2516.3	2505.1	2465.8	2429.3	2395.7	2342.5
25°	2477.1	2477.1	2479.9	2482.7	2479.9	2477.1	2477.1	2446.1	2373.3	2364.9	2334.1
27.5°	2418.1	2423.7	2440.5	2437.7	2440.5	2423.7	2418.1	2406.9	2328.5	2320.1	2297.6
30°	2364.9	2359.3	2345.3	2334.1	2345.3	2359.3	2364.9	2348.1	2269.6	2247.2	2252.8
32.5°	2275.2	2261.2	2247.2	2238.8	2247.2	2261.2	2275.2	2269.6	2210.8	2180.0	2185.6
35°	2168.7	2171.6	2168.7	2160.3	2168.7	2171.6	2168.7	2174.4	2137.9	2109.9	2107.1
37.5°	2093.1	2098.7	2095.9	2084.7	2095.9	2098.7	2093.1	2087.5	2037.1	2028.6	2034.3
40°	2014.6	2017.4	2014.6	2006.2	2014.6	2017.4	2014.6	2003.4	1933.4	1936.2	1955.8
42.5°	1939.0	1936.2	1927.8	1922.2	1927.8	1936.2	1939.0	1922.2	1832.5	1824.1	1860.5
45°	1852.1	1854.9	1838.1	1829.7	1838.1	1854.9	1852.1	1840.9	1748.4	1726.0	1751.2
47.5°	1765.3	1765.3	1751.2	1742.8	1751.2	1765.3	1765.3	1751.2	1653.2	1630.8	1644.8
50°	1672.8	1670.0	1650.4	1647.6	1650.4	1670.0	1672.8	1664.4	1560.7	1541.1	1541.1
52.5°	1566.3	1566.3	1569.1	1574.7	1569.1	1566.3	1566.3	1569.1	1476.7	1457.0	1451.4
55°	1473.9	1476.7	1496.3	1501.9	1496.3	1476.7	1473.9	1473.9	1389.8	1370.2	1359.0
57.5°	1378.6	1378.6	1392.6	1392.6	1392.6	1378.6	1378.6	1373.0	1291.7	1274.9	1269.3
60°	1269.3	1274.9	1286.1	1283.3	1286.1	1274.9	1269.3	1263.7	1193.7	1182.4	1162.8
62.5°	1154.4	1160.0	1162.8	1157.2	1162.8	1160.0	1154.4	1137.6	1095.6	1087.2	1062.0
65°	1033.9	1039.5	1042.3	1036.7	1042.3	1039.5	1033.9	1025.5	994.7	980.7	958.3
67.5°	910.6	907.8	905.0	916.3	905.0	907.8	910.6	899.4	879.8	868.6	837.8
70°	784.6	784.6	781.8	787.4	781.8	784.6	784.6	776.2	764.9	756.5	728.5
72.5°	650.1	647.3	658.5	650.1	658.5	647.3	650.1	647.3	641.7	633.3	605.2
75°	518.4	524.0	518.4	526.8	518.4	524.0	518.4	521.2	518.4	512.8	493.2
77.5°	395.1	400.7	395.1	395.1	395.1	400.7	395.1	397.9	397.9	397.9	381.1
80°	280.2	277.4	277.4	274.6	277.4	277.4	280.2	280.2	283.0	277.4	271.8
82.5°	179.3	176.5	176.5	182.1	176.5	176.5	179.3	182.1	176.5	176.5	176.5
85°	98.1	100.9	95.3	95.3	95.3	100.9	98.1	92.5	98.1	98.1	95.3
87.5°	36.4	33.6	33.6	33.6	33.6	33.6	36.4	39.2	39.2	39.2	42.0
90°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	29.2	39.0	43.9	37.7
92.5°	109.7	105.4	87.9	70.4	87.9	105.4	109.7	155.5	216.6	247.1	217.0
95°	372.5	359.2	306.4	253.5	306.4	359.2	372.5	489.1	644.6	722.4	610.2
97.5°	859.9	834.8	734.1	633.5	734.1	834.8	859.9	933.6	1032.0	1081.1	893.8
100°	1207.6	1177.6	1057.8	937.9	1057.8	1177.6	1207.6	1202.2	1195.0	1191.4	983.6
102.5°	1504.4	1478.7	1376.1	1273.4	1376.1	1478.7	1504.4	1410.4	1285.2	1222.6	1011.9
105°	1850.9	1837.1	1782.0	1726.8	1782.0	1837.1	1850.9	1640.3	1359.5	1219.2	1015.1
107.5°	2031.2	2034.5	2047.8	2061.2	2047.8	2034.5	2031.2	1737.4	1345.7	1149.8	970.0
110°	2077.3	2091.7	2149.1	2206.7	2149.1	2091.7	2077.3	1748.9	1311.1	1092.1	929.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2047.9	2069.9	2158.3	2246.6	2158.3	2069.9	2047.9	1711.7	1263.6	1039.5	894.9
115°	1948.0	1978.6	2101.0	2223.5	2101.0	1978.6	1948.0	1624.1	1192.4	976.6	854.8
117.5°	1809.9	1843.8	1979.6	2115.4	1979.6	1843.8	1809.9	1517.7	1128.1	933.3	829.7
120°	1717.0	1749.9	1881.9	2013.8	1881.9	1749.9	1717.0	1449.9	1094.0	916.0	821.3
122.5°	1623.9	1656.4	1786.6	1916.8	1786.6	1656.4	1623.9	1383.5	1062.9	902.6	816.8
125°	1500.9	1530.9	1650.8	1770.7	1650.8	1530.9	1500.9	1296.7	1024.4	888.2	813.1
127.5°	1402.2	1427.5	1528.6	1629.7	1528.6	1427.5	1402.2	1226.8	993.0	876.1	811.0
130°	1339.8	1363.2	1456.7	1550.1	1456.7	1363.2	1339.8	1183.8	975.6	871.5	812.3
132.5°	1286.7	1307.6	1391.3	1475.0	1391.3	1307.6	1286.7	1147.0	960.6	867.4	813.1
135°	1211.7	1229.7	1301.8	1373.9	1301.8	1229.7	1211.7	1094.6	938.6	860.5	812.4
137.5°	1156.2	1171.0	1230.0	1289.0	1230.0	1171.0	1156.2	1057.3	925.3	859.4	817.4
140°	1111.7	1125.6	1180.7	1235.9	1180.7	1125.6	1111.7	1026.3	912.2	855.3	818.2
142.5°	1080.5	1092.4	1139.9	1187.4	1139.9	1092.4	1080.5	1005.5	905.3	855.3	821.2
145°	1033.8	1042.7	1078.7	1114.6	1078.7	1042.7	1033.8	972.4	890.5	849.6	821.2
147.5°	994.5	1002.0	1031.7	1061.5	1031.7	1002.0	994.5	946.2	881.8	849.6	826.9
150°	971.9	978.0	1002.1	1026.3	1002.1	978.0	971.9	931.1	876.7	849.6	829.8
152.5°	954.1	958.7	976.9	995.1	976.9	958.7	954.1	919.2	872.8	849.6	831.7
155°	932.7	935.7	947.8	959.9	947.8	935.7	932.7	905.0	868.1	849.6	835.9
157.5°	914.2	916.3	924.8	933.3	924.8	916.3	914.2	892.6	864.0	849.6	840.2
160°	905.0	906.2	911.1	916.0	911.1	906.2	905.0	886.5	861.9	849.6	842.1
162.5°	896.3	897.4	902.1	906.7	902.1	897.4	896.3	880.7	859.9	849.6	844.1
165°	883.0	884.2	889.2	894.0	889.2	884.2	883.0	871.9	857.0	849.6	847.1
167.5°	877.2	877.8	879.8	881.9	879.8	877.8	877.2	869.9	860.1	855.3	853.2
170°	877.2	877.2	877.2	877.2	877.2	877.2	877.2	869.9	860.1	855.3	855.2
172.5°	872.6	872.2	870.4	868.6	870.4	872.2	872.6	866.8	859.1	855.3	855.3
175°	866.3	866.3	866.3	866.3	866.3	866.3	866.3	862.6	857.7	855.3	856.4
177.5°	865.2	864.6	862.5	860.5	862.5	864.6	865.2	862.3	858.4	856.5	857.4
180°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	2925.4	2939.4	2947.8	2959.0	2987.0
5°	2813.3	2866.5	2883.4	2925.4	2975.8
7.5°	2566.7	2729.2	2774.1	2874.9	2953.4
10°	2328.5	2491.1	2569.5	2807.7	2925.4
12.5°	2208.0	2303.2	2356.5	2690.0	2886.2
15°	2132.3	2199.6	2238.8	2533.1	2841.3
17.5°	2073.5	2121.1	2149.1	2378.9	2779.7
20°	2037.1	2059.5	2084.7	2266.8	2709.6
22.5°	2011.8	1997.8	2017.4	2188.4	2614.4
25°	1995.0	1941.8	1964.2	2126.7	2502.3
27.5°	2009.0	1891.4	1899.8	2070.7	2384.5
30°	2011.8	1829.7	1832.5	2011.8	2252.8
32.5°	1992.2	1765.3	1768.1	1939.0	2104.3
35°	1944.6	1689.6	1686.8	1854.9	1902.6
37.5°	1880.1	1608.3	1608.3	1762.5	1681.2
40°	1801.7	1527.1	1535.5	1642.0	1485.1
42.5°	1706.4	1440.2	1451.4	1482.3	1339.4
45°	1602.7	1356.2	1364.6	1252.5	1227.3
47.5°	1487.9	1269.3	1272.1	1039.5	1190.9
50°	1350.6	1179.6	1168.4	891.0	1188.0
52.5°	1230.1	1081.6	1047.9	807.0	1078.8
55°	1112.4	977.9	905.0	742.5	1000.3
57.5°	1008.7	843.4	773.4	666.9	983.5
60°	913.5	711.7	658.5	585.6	902.2
62.5°	835.0	613.6	602.4	529.6	818.2
65°	750.9	546.4	543.6	481.9	694.9
67.5°	669.7	501.6	498.8	437.1	529.6
70°	582.8	453.9	448.3	389.5	392.3
72.5°	493.2	400.7	395.1	350.2	325.0
75°	403.5	339.0	336.2	305.4	263.4
77.5°	316.6	269.0	274.6	246.6	193.3
80°	227.0	196.1	201.7	176.5	145.7
82.5°	151.3	128.9	134.5	112.1	98.1
85°	84.1	72.9	75.7	58.8	44.8
87.5°	39.2	33.6	33.6	22.4	14.0
90°	25.4	16.2	15.0	10.4	5.8
92.5°	156.6	111.4	101.6	62.3	23.1
95°	385.6	217.2	199.2	127.3	55.5
97.5°	519.4	238.5	222.7	159.2	95.8
100°	568.1	256.4	242.0	184.6	127.0
102.5°	590.4	274.3	260.9	207.3	153.6
105°	606.9	300.8	289.4	244.1	198.7
107.5°	610.1	340.2	329.6	287.2	244.9
110°	605.4	362.1	352.6	314.3	276.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	605.6	388.6	379.5	343.1	306.6
115°	611.2	428.5	420.1	386.5	352.9
117.5°	622.5	467.2	459.5	429.0	398.4
120°	631.8	489.7	482.5	453.8	425.1
122.5°	645.1	516.3	509.0	480.1	451.0
125°	663.0	550.4	543.8	517.3	490.9
127.5°	680.9	583.3	576.7	549.9	523.2
130°	694.0	605.2	598.0	569.4	540.6
132.5°	704.6	623.2	616.0	587.2	558.4
135°	716.1	643.9	637.4	611.2	585.1
137.5°	733.5	670.5	664.1	638.1	612.1
140°	744.0	688.4	682.4	658.6	634.7
142.5°	752.9	701.7	696.2	674.1	652.0
145°	764.5	721.9	717.0	697.8	678.6
147.5°	781.4	747.3	742.6	723.8	705.2
150°	790.3	760.6	756.4	739.4	722.4
152.5°	796.0	769.2	766.1	753.2	740.4
155°	808.8	788.3	786.0	776.4	766.9
157.5°	821.5	807.3	805.0	795.9	786.6
160°	827.2	816.0	814.3	807.1	799.9
162.5°	833.4	825.3	824.0	818.6	813.1
165°	842.2	838.5	837.3	832.5	827.6
167.5°	849.1	846.0	845.5	843.1	840.9
170°	854.9	854.7	854.1	851.8	849.6
172.5°	855.3	855.3	855.2	854.6	854.1
175°	858.7	860.5	860.5	860.5	860.5
177.5°	859.2	860.5	860.5	860.5	860.5
180°	860.5	860.5	860.5	860.5	860.5



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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	13.21	14.15	14.10	15.05	16.21	16.06	17.00	16.95	17.90	19.06
	3H	13.69	14.53	14.59	15.45	16.63	17.42	18.26	18.32	19.18	20.35
	4H	13.89	14.68	14.80	15.60	16.79	17.87	18.67	18.78	19.59	20.77
	6H	14.01	14.74	14.93	15.67	16.87	18.17	18.90	19.09	19.82	21.03
	8H	14.01	14.71	14.95	15.66	16.85	18.24	18.94	19.18	19.89	21.09
	12H	13.99	14.65	14.92	15.59	16.81	18.29	18.95	19.23	19.89	21.12
4H	2H	14.26	15.05	15.17	15.97	17.16	16.48	17.27	17.40	18.19	19.38
	3H	15.29	15.95	16.22	16.91	18.11	18.00	18.66	18.93	19.61	20.81
	4H	15.57	16.17	16.51	17.12	18.35	18.53	19.14	19.47	20.08	21.31
	6H	15.70	16.22	16.65	17.19	18.42	18.91	19.43	19.86	20.40	21.63
	8H	15.71	16.19	16.66	17.16	18.40	19.02	19.51	19.98	20.47	21.71
	12H	15.68	16.12	16.65	17.10	18.35	19.08	19.52	20.06	20.50	21.75
8H	4H	16.03	16.52	16.99	17.48	18.73	18.66	19.15	19.62	20.11	21.36
	6H	16.30	16.70	17.28	17.71	18.95	19.11	19.51	20.09	20.52	21.76
	8H	16.34	16.70	17.33	17.69	18.95	19.26	19.62	20.26	20.62	21.87
	12H	16.33	16.64	17.32	17.63	18.94	19.37	19.68	20.36	20.67	21.98
12H	4H	16.04	16.48	17.02	17.46	18.71	18.63	19.07	19.61	20.05	21.30
	6H	16.36	16.72	17.35	17.71	18.97	19.11	19.46	20.10	20.46	21.72
	8H	16.43	16.74	17.42	17.73	19.04	19.27	19.59	20.27	20.58	21.88