

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: P934355

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934355
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-93050-1D-UNV-STD-W-12-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

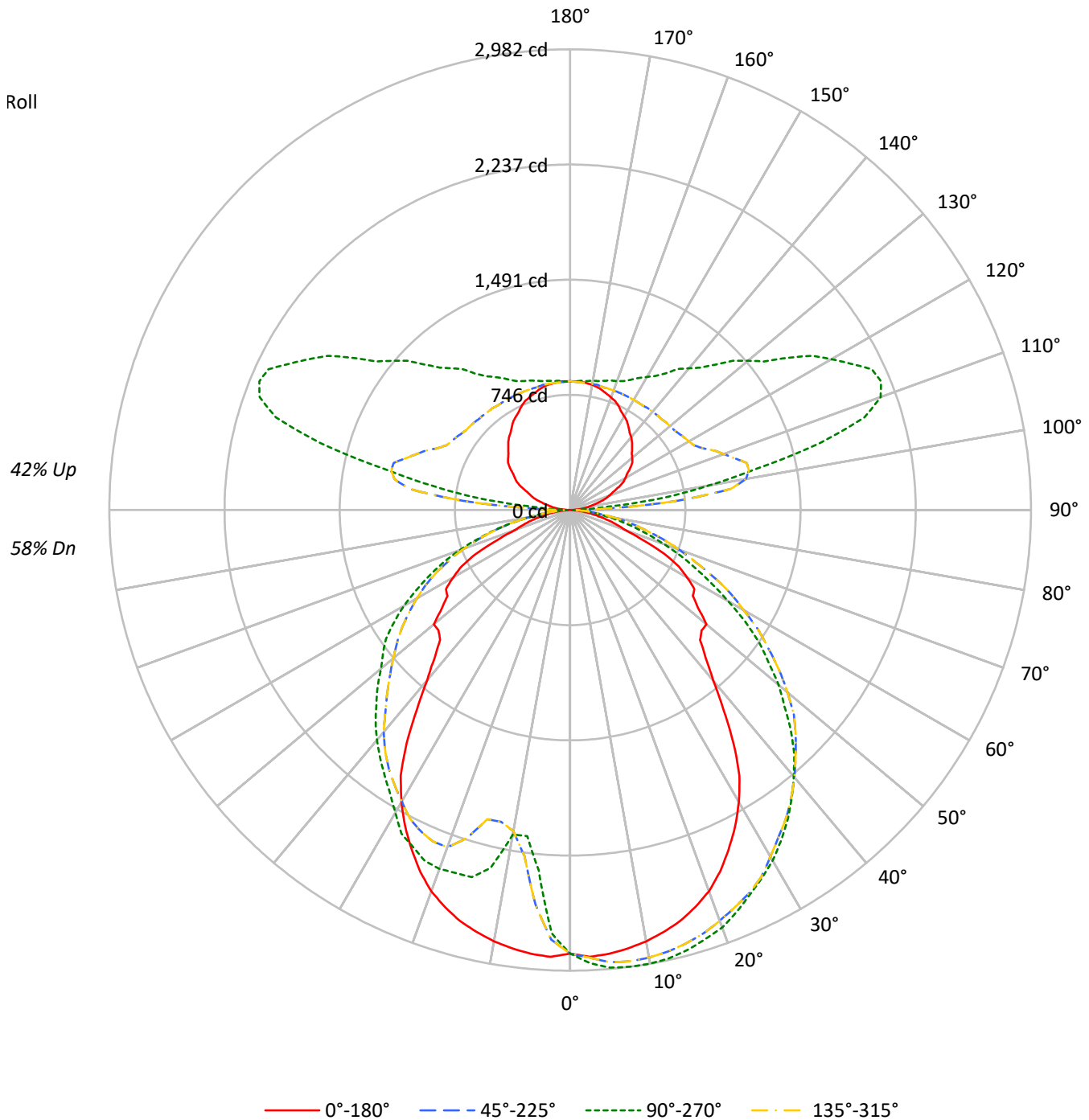
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12851.4 lumens
Efficiency: N/A
Efficacy: 117.7 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	0
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°	8878	8878	8878	8878
5°	8948	8962	8948	7047
10°	8891	8828	8891	6311
15°	8798	8637	8798	7212
20°	8618	8410	8618	7227
25°	8244	8080	8244	7074
30°	7760	7805	7760	6738
35°	6922	7459	6922	6368
40°	5771	7050	5771	6089
45°	5160	6571	5160	5768
50°	5486	6001	5486	5445
55°	5166	5387	5166	5259
60°	5332	4575	5332	4817
65°	4842	3782	4842	4227
70°	3361	3014	3361	3544
75°	2959	2228	2959	2668
80°	2402	1473	2402	1604
85°	1406	780	1406	663

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7903 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	2.0
10°-20°	735.6	5.7
20°-30°	1137.2	8.8
30°-40°	1357.5	10.6
40°-50°	1365.5	10.6
50°-60°	1188.1	9.2
60°-70°	842.4	6.6
70°-80°	445.7	3.5
80°-90°	114.2	0.9
90°-100°	406.5	3.2
100°-110°	1068.7	8.3
110°-120°	1108.1	8.6
120°-130°	888.9	6.9
130°-140°	697.4	5.4
140°-150°	535.3	4.2
150°-160°	385.5	3.0
160°-170°	235.9	1.8
170°-180°	79.7	0.6
0°-30°	2131.9	16.6
0°-40°	3489.5	27.2
0°-60°	6043.1	47.0
0°-90°	7445.3	57.9
90°-120°	2583.3	20.1
90°-150°	4704.9	36.6
90°-180°	5406.0	42.1
0°-180°	12851.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2870	2870	2870	2870	2870	
5°	2884	2974	2884	2338	2884	274
15°	2754	2946	2754	2460	2754	775
25°	2425	2748	2425	2406	2425	1113
35°	1844	2452	1844	2094	1844	1141
45°	1189	2020	1189	1773	1189	953
55°	969	1491	969	1456	969	891
65°	673	899	673	1005	673	644
75°	255	426	255	510	255	268
85°	43	109	43	92	43	59
90°	6	21	6	21	6	6
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°	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2894.8	2894.8	2911.1	2916.5	2916.5	2908.4	2900.2	2908.4	2932.8	2941.0	2938.2
5°	2883.9	2905.7	2935.5	2941.0	2946.4	2943.7	2938.2	2943.7	2970.8	2976.3	2979.0
7.5°	2862.2	2902.9	2941.0	2949.1	2957.3	2949.1	2946.4	2951.8	2979.0	2984.4	2984.4
10°	2835.1	2892.1	2935.5	2941.0	2949.1	2941.0	2941.0	2951.8	2979.0	2984.4	2987.1
12.5°	2797.0	2875.8	2916.5	2922.0	2932.8	2930.1	2927.4	2938.2	2965.4	2970.8	2970.8
15°	2753.6	2845.9	2883.9	2889.4	2908.4	2902.9	2902.9	2913.8	2943.7	2951.8	2949.1
17.5°	2693.8	2807.9	2851.3	2859.5	2873.1	2870.4	2873.1	2883.9	2911.1	2916.5	2919.2
20°	2626.0	2756.3	2807.9	2816.0	2829.6	2829.6	2829.6	2843.2	2870.4	2881.2	2881.2
22.5°	2533.6	2702.0	2756.3	2761.7	2778.0	2778.0	2783.5	2802.5	2826.9	2829.6	2829.6
25°	2425.0	2642.3	2688.4	2704.7	2721.0	2729.2	2737.3	2748.2	2756.3	2753.6	2756.3
27.5°	2310.9	2566.2	2626.0	2636.8	2658.5	2666.7	2677.6	2680.3	2683.0	2691.1	2685.7
30°	2183.2	2460.3	2549.9	2560.8	2596.1	2601.5	2590.7	2596.1	2609.7	2615.1	2620.5
32.5°	2039.3	2302.7	2471.2	2495.6	2528.2	2511.9	2509.2	2517.3	2539.1	2539.1	2544.5
35°	1843.8	2180.5	2397.9	2419.6	2444.0	2425.0	2435.9	2438.6	2452.2	2460.3	2457.6
37.5°	1629.3	2074.6	2321.7	2338.0	2357.0	2332.6	2348.9	2357.0	2367.9	2362.5	2362.5
40°	1439.2	1909.0	2232.1	2243.0	2259.3	2240.3	2256.6	2262.0	2267.4	2262.0	2259.3
42.5°	1298.0	1727.0	2137.1	2150.7	2139.8	2153.4	2158.8	2169.7	2161.5	2150.7	2150.7
45°	1189.4	1678.2	2033.9	2050.2	2033.9	2055.6	2063.8	2063.8	2039.3	2033.9	2031.2
47.5°	1154.1	1580.4	1930.7	1930.7	1922.6	1949.7	1963.3	1944.3	1919.8	1911.7	1911.7
50°	1151.4	1471.8	1789.5	1778.6	1816.7	1849.2	1835.7	1816.7	1797.6	1767.8	1767.8
52.5°	1045.5	1338.7	1607.6	1648.3	1708.0	1727.0	1705.3	1686.3	1653.7	1640.2	1629.3
55°	969.4	1200.2	1441.9	1523.4	1585.8	1610.3	1569.5	1550.5	1501.7	1493.5	1488.1
57.5°	953.1	999.3	1289.9	1393.0	1469.1	1466.4	1441.9	1406.6	1365.9	1357.7	1355.0
60°	874.4	722.3	1126.9	1249.1	1327.9	1319.7	1298.0	1265.4	1227.4	1222.0	1216.5
62.5°	792.9	524.1	942.3	1080.8	1192.1	1189.4	1170.4	1121.5	1094.3	1080.8	1069.9
65°	673.4	439.9	670.7	898.8	1059.0	1064.5	1023.7	988.4	958.6	942.3	939.6
67.5°	513.2	358.4	453.5	749.5	931.4	926.0	874.4	858.1	820.1	811.9	795.6
70°	380.2	239.0	315.0	608.3	806.5	792.9	752.2	733.2	697.9	678.9	668.0
72.5°	315.0	192.8	230.8	472.5	678.9	662.6	627.3	605.6	575.7	559.4	548.5
75°	255.3	203.7	176.5	350.3	551.2	540.4	507.8	486.1	461.6	439.9	442.6
77.5°	187.4	190.1	141.2	258.0	437.2	420.9	401.9	374.7	363.9	342.2	342.2
80°	141.2	149.4	105.9	176.5	315.0	315.0	298.7	279.7	260.7	249.8	249.8
82.5°	95.0	95.0	78.7	111.3	214.5	206.4	195.5	190.1	179.2	173.8	173.8
85°	43.4	54.3	48.9	67.9	116.8	122.2	122.2	116.8	114.1	108.6	111.3
87.5°	13.6	24.4	29.9	38.0	59.7	62.5	65.2	65.2	65.2	67.9	67.9
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°	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2943.7	2935.5	2943.7	2938.2	2941.0	2932.8	2908.4	2900.2	2908.4	2916.5	2916.5
5°	2979.0	2973.5	2979.0	2979.0	2976.3	2970.8	2943.7	2938.2	2943.7	2946.4	2941.0
7.5°	2989.8	2981.7	2989.8	2984.4	2984.4	2979.0	2951.8	2946.4	2949.1	2957.3	2949.1
10°	2989.8	2981.7	2989.8	2987.1	2984.4	2979.0	2951.8	2941.0	2941.0	2949.1	2941.0
12.5°	2976.3	2970.8	2976.3	2970.8	2970.8	2965.4	2938.2	2927.4	2930.1	2932.8	2922.0
15°	2954.5	2946.4	2954.5	2949.1	2951.8	2943.7	2913.8	2902.9	2902.9	2908.4	2889.4
17.5°	2922.0	2911.1	2922.0	2919.2	2916.5	2911.1	2883.9	2873.1	2870.4	2873.1	2859.5
20°	2883.9	2875.8	2883.9	2881.2	2881.2	2870.4	2843.2	2829.6	2829.6	2829.6	2816.0
22.5°	2824.2	2816.0	2824.2	2829.6	2829.6	2826.9	2802.5	2783.5	2778.0	2778.0	2761.7
25°	2756.3	2748.2	2756.3	2756.3	2753.6	2756.3	2748.2	2737.3	2729.2	2721.0	2704.7
27.5°	2691.1	2685.7	2691.1	2685.7	2691.1	2683.0	2680.3	2677.6	2666.7	2658.5	2636.8
30°	2626.0	2620.5	2626.0	2620.5	2615.1	2609.7	2596.1	2590.7	2601.5	2596.1	2560.8
32.5°	2544.5	2539.1	2544.5	2544.5	2539.1	2539.1	2517.3	2509.2	2511.9	2528.2	2495.6
35°	2460.3	2452.2	2460.3	2457.6	2460.3	2452.2	2438.6	2435.9	2425.0	2444.0	2419.6
37.5°	2362.5	2354.3	2362.5	2362.5	2362.5	2367.9	2357.0	2348.9	2332.6	2357.0	2338.0
40°	2262.0	2251.1	2262.0	2259.3	2262.0	2267.4	2262.0	2256.6	2240.3	2259.3	2243.0
42.5°	2147.9	2145.2	2147.9	2150.7	2150.7	2161.5	2169.7	2158.8	2153.4	2139.8	2150.7
45°	2025.8	2020.3	2025.8	2031.2	2033.9	2039.3	2063.8	2063.8	2055.6	2033.9	2050.2
47.5°	1895.4	1881.8	1895.4	1911.7	1911.7	1919.8	1944.3	1963.3	1949.7	1922.6	1930.7
50°	1756.9	1759.6	1756.9	1767.8	1767.8	1797.6	1816.7	1835.7	1849.2	1816.7	1778.6
52.5°	1621.1	1618.4	1621.1	1629.3	1640.2	1653.7	1686.3	1705.3	1727.0	1708.0	1648.3
55°	1485.4	1490.8	1485.4	1488.1	1493.5	1501.7	1550.5	1569.5	1610.3	1585.8	1523.4
57.5°	1349.6	1341.4	1349.6	1355.0	1357.7	1365.9	1406.6	1441.9	1466.4	1469.1	1393.0
60°	1192.1	1181.2	1192.1	1216.5	1222.0	1227.4	1265.4	1298.0	1319.7	1327.9	1249.1
62.5°	1053.6	1034.6	1053.6	1069.9	1080.8	1094.3	1121.5	1170.4	1189.4	1192.1	1080.8
65°	907.0	898.8	907.0	939.6	942.3	958.6	988.4	1023.7	1064.5	1059.0	898.8
67.5°	773.9	773.9	773.9	795.6	811.9	820.1	858.1	874.4	926.0	931.4	749.5
70°	651.7	649.0	651.7	668.0	678.9	697.9	733.2	752.2	792.9	806.5	608.3
72.5°	535.0	532.2	535.0	548.5	559.4	575.7	605.6	627.3	662.6	678.9	472.5
75°	431.8	426.3	431.8	442.6	439.9	461.6	486.1	507.8	540.4	551.2	350.3
77.5°	331.3	331.3	331.3	342.2	342.2	363.9	374.7	401.9	420.9	437.2	258.0
80°	247.1	244.4	247.1	249.8	249.8	260.7	279.7	298.7	315.0	315.0	176.5
82.5°	173.8	168.4	173.8	173.8	173.8	179.2	190.1	195.5	206.4	214.5	111.3
85°	108.6	108.6	108.6	111.3	108.6	114.1	116.8	122.2	122.2	116.8	67.9
87.5°	70.6	67.9	70.6	67.9	67.9	65.2	65.2	65.2	62.5	59.7	38.0
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: P934355

CATALOG NUMBER: SQ4-FA-050U-075D-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: P934355

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2911.1	2894.8	2894.8	2867.6	2856.8	2848.6	2835.1	2794.3	2783.5	2772.6	2788.9
5°	2935.5	2905.7	2883.9	2835.1	2794.3	2778.0	2726.4	2628.7	2563.5	2514.6	2487.5
7.5°	2941.0	2902.9	2862.2	2786.2	2688.4	2645.0	2487.5	2308.2	2259.3	2215.8	2188.7
10°	2935.5	2892.1	2835.1	2721.0	2490.2	2414.2	2256.6	2139.8	2109.9	2101.8	2109.9
12.5°	2916.5	2875.8	2797.0	2607.0	2283.7	2232.1	2139.8	2071.9	2066.5	2080.1	2153.4
15°	2883.9	2845.9	2753.6	2454.9	2169.7	2131.7	2066.5	2042.0	2071.9	2167.0	2386.9
17.5°	2851.3	2807.9	2693.8	2305.4	2082.8	2055.6	2009.5	2058.3	2226.7	2354.3	2427.7
20°	2807.9	2756.3	2626.0	2196.8	2020.3	1995.9	1974.2	2194.1	2321.7	2367.9	2408.7
22.5°	2756.3	2702.0	2533.6	2120.8	1955.1	1936.1	1949.7	2270.1	2321.7	2354.3	2389.6
25°	2688.4	2642.3	2425.0	2061.1	1903.6	1881.8	1933.4	2262.0	2291.9	2300.0	2370.6
27.5°	2626.0	2566.2	2310.9	2006.7	1841.1	1833.0	1947.0	2226.7	2248.4	2256.6	2332.6
30°	2549.9	2460.3	2183.2	1949.7	1775.9	1773.2	1949.7	2183.2	2177.8	2199.5	2275.6
32.5°	2471.2	2302.7	2039.3	1879.1	1713.5	1710.8	1930.7	2118.1	2112.6	2142.5	2199.5
35°	2397.9	2180.5	1843.8	1797.6	1634.7	1637.4	1884.5	2042.0	2044.8	2071.9	2107.2
37.5°	2321.7	2074.6	1629.3	1708.0	1558.7	1558.7	1822.1	1971.4	1966.0	1974.2	2023.0
40°	2232.1	1909.0	1439.2	1591.3	1488.1	1479.9	1746.1	1895.4	1876.4	1873.7	1941.6
42.5°	2137.1	1727.0	1298.0	1436.5	1406.6	1395.8	1653.7	1803.1	1767.8	1775.9	1862.8
45°	2033.9	1678.2	1189.4	1213.8	1322.4	1314.3	1553.3	1697.2	1672.7	1694.5	1784.1
47.5°	1930.7	1580.4	1154.1	1007.4	1232.8	1230.1	1441.9	1594.0	1580.4	1602.1	1697.2
50°	1789.5	1471.8	1151.4	863.5	1132.4	1143.2	1308.9	1493.5	1493.5	1512.5	1613.0
52.5°	1607.6	1338.7	1045.5	782.1	1015.6	1048.2	1192.1	1406.6	1412.1	1431.1	1520.7
55°	1441.9	1200.2	969.4	719.6	877.1	947.7	1078.0	1317.0	1327.9	1346.9	1428.3
57.5°	1289.9	999.3	953.1	646.3	749.5	817.4	977.6	1230.1	1235.5	1251.8	1330.6
60°	1126.9	722.3	874.4	567.5	638.1	689.7	885.2	1126.9	1145.9	1156.8	1224.7
62.5°	942.3	524.1	792.9	513.2	583.8	594.7	809.2	1029.2	1053.6	1061.8	1102.5
65°	670.7	439.9	673.4	467.1	526.8	529.5	727.7	928.7	950.4	964.0	993.9
67.5°	453.5	358.4	513.2	423.6	483.4	486.1	649.0	811.9	841.8	852.7	871.7
70°	315.0	239.0	380.2	377.5	434.5	439.9	564.8	706.0	733.2	741.3	752.2
72.5°	230.8	192.8	315.0	339.4	382.9	388.3	477.9	586.5	613.7	621.8	627.3
75°	176.5	203.7	255.3	296.0	325.9	328.6	391.0	477.9	496.9	502.4	505.1
77.5°	141.2	190.1	187.4	239.0	266.1	260.7	306.8	369.3	385.6	385.6	385.6
80°	105.9	149.4	141.2	171.1	195.5	190.1	220.0	263.4	268.8	274.3	271.5
82.5°	78.7	95.0	95.0	108.6	130.3	124.9	146.6	171.1	171.1	171.1	176.5
85°	48.9	54.3	43.4	57.0	73.3	70.6	81.5	92.3	95.0	95.0	89.6
87.5°	29.9	24.4	13.6	21.7	32.6	32.6	38.0	40.7	38.0	38.0	38.0
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: P934355

CATALOG NUMBER: SQ4-FA-050U-075D-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: P934355
 CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2769.9	2761.7	2772.6	2742.7	2772.6	2761.7	2769.9	2788.9	2772.6	2783.5	2794.3
5°	2430.4	2416.9	2373.3	2338.0	2373.3	2416.9	2430.4	2487.5	2514.6	2563.5	2628.7
7.5°	2172.4	2161.5	2150.7	2128.9	2150.7	2161.5	2172.4	2188.7	2215.8	2259.3	2308.2
10°	2115.4	2118.1	2134.4	2131.7	2134.4	2118.1	2115.4	2109.9	2101.8	2109.9	2139.8
12.5°	2262.0	2286.4	2376.0	2370.6	2376.0	2286.4	2262.0	2153.4	2080.1	2066.5	2071.9
15°	2430.4	2438.6	2457.6	2460.3	2457.6	2438.6	2430.4	2386.9	2167.0	2071.9	2042.0
17.5°	2446.7	2449.5	2463.0	2463.0	2463.0	2449.5	2446.7	2427.7	2354.3	2226.7	2058.3
20°	2433.2	2438.6	2465.7	2471.2	2465.7	2438.6	2433.2	2408.7	2367.9	2321.7	2194.1
22.5°	2427.7	2438.6	2460.3	2457.6	2460.3	2438.6	2427.7	2389.6	2354.3	2321.7	2270.1
25°	2400.6	2400.6	2403.3	2406.0	2403.3	2400.6	2400.6	2370.6	2300.0	2291.9	2262.0
27.5°	2343.5	2348.9	2365.2	2362.5	2365.2	2348.9	2343.5	2332.6	2256.6	2248.4	2226.7
30°	2291.9	2286.4	2272.9	2262.0	2272.9	2286.4	2291.9	2275.6	2199.5	2177.8	2183.2
32.5°	2205.0	2191.4	2177.8	2169.7	2177.8	2191.4	2205.0	2199.5	2142.5	2112.6	2118.1
35°	2101.8	2104.5	2101.8	2093.6	2101.8	2104.5	2101.8	2107.2	2071.9	2044.8	2042.0
37.5°	2028.5	2033.9	2031.2	2020.3	2031.2	2033.9	2028.5	2023.0	1974.2	1966.0	1971.4
40°	1952.4	1955.1	1952.4	1944.3	1952.4	1955.1	1952.4	1941.6	1873.7	1876.4	1895.4
42.5°	1879.1	1876.4	1868.3	1862.8	1868.3	1876.4	1879.1	1862.8	1775.9	1767.8	1803.1
45°	1794.9	1797.6	1781.4	1773.2	1781.4	1797.6	1794.9	1784.1	1694.5	1672.7	1697.2
47.5°	1710.8	1710.8	1697.2	1689.0	1697.2	1710.8	1710.8	1697.2	1602.1	1580.4	1594.0
50°	1621.1	1618.4	1599.4	1596.7	1599.4	1618.4	1621.1	1613.0	1512.5	1493.5	1493.5
52.5°	1518.0	1518.0	1520.7	1526.1	1520.7	1518.0	1518.0	1520.7	1431.1	1412.1	1406.6
55°	1428.3	1431.1	1450.1	1455.5	1450.1	1431.1	1428.3	1428.3	1346.9	1327.9	1317.0
57.5°	1336.0	1336.0	1349.6	1349.6	1349.6	1336.0	1336.0	1330.6	1251.8	1235.5	1230.1
60°	1230.1	1235.5	1246.4	1243.7	1246.4	1235.5	1230.1	1224.7	1156.8	1145.9	1126.9
62.5°	1118.8	1124.2	1126.9	1121.5	1126.9	1124.2	1118.8	1102.5	1061.8	1053.6	1029.2
65°	1002.0	1007.4	1010.2	1004.7	1010.2	1007.4	1002.0	993.9	964.0	950.4	928.7
67.5°	882.5	879.8	877.1	888.0	877.1	879.8	882.5	871.7	852.7	841.8	811.9
70°	760.3	760.3	757.6	763.1	757.6	760.3	760.3	752.2	741.3	733.2	706.0
72.5°	630.0	627.3	638.1	630.0	638.1	627.3	630.0	627.3	621.8	613.7	586.5
75°	502.4	507.8	502.4	510.5	502.4	507.8	502.4	505.1	502.4	496.9	477.9
77.5°	382.9	388.3	382.9	382.9	382.9	388.3	382.9	385.6	385.6	385.6	369.3
80°	271.5	268.8	268.8	266.1	268.8	268.8	271.5	271.5	274.3	268.8	263.4
82.5°	173.8	171.1	171.1	176.5	171.1	171.1	173.8	176.5	171.1	171.1	171.1
85°	95.0	97.8	92.3	92.3	92.3	97.8	95.0	89.6	95.0	95.0	92.3
87.5°	35.3	32.6	32.6	32.6	32.6	32.6	35.3	38.0	38.0	38.0	40.7
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°	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2835.1	2848.6	2856.8	2867.6	2894.8
5°	2726.4	2778.0	2794.3	2835.1	2883.9
7.5°	2487.5	2645.0	2688.4	2786.2	2862.2
10°	2256.6	2414.2	2490.2	2721.0	2835.1
12.5°	2139.8	2232.1	2283.7	2607.0	2797.0
15°	2066.5	2131.7	2169.7	2454.9	2753.6
17.5°	2009.5	2055.6	2082.8	2305.4	2693.8
20°	1974.2	1995.9	2020.3	2196.8	2626.0
22.5°	1949.7	1936.1	1955.1	2120.8	2533.6
25°	1933.4	1881.8	1903.6	2061.1	2425.0
27.5°	1947.0	1833.0	1841.1	2006.7	2310.9
30°	1949.7	1773.2	1775.9	1949.7	2183.2
32.5°	1930.7	1710.8	1713.5	1879.1	2039.3
35°	1884.5	1637.4	1634.7	1797.6	1843.8
37.5°	1822.1	1558.7	1558.7	1708.0	1629.3
40°	1746.1	1479.9	1488.1	1591.3	1439.2
42.5°	1653.7	1395.8	1406.6	1436.5	1298.0
45°	1553.3	1314.3	1322.4	1213.8	1189.4
47.5°	1441.9	1230.1	1232.8	1007.4	1154.1
50°	1308.9	1143.2	1132.4	863.5	1151.4
52.5°	1192.1	1048.2	1015.6	782.1	1045.5
55°	1078.0	947.7	877.1	719.6	969.4
57.5°	977.6	817.4	749.5	646.3	953.1
60°	885.2	689.7	638.1	567.5	874.4
62.5°	809.2	594.7	583.8	513.2	792.9
65°	727.7	529.5	526.8	467.1	673.4
67.5°	649.0	486.1	483.4	423.6	513.2
70°	564.8	439.9	434.5	377.5	380.2
72.5°	477.9	388.3	382.9	339.4	315.0
75°	391.0	328.6	325.9	296.0	255.3
77.5°	306.8	260.7	266.1	239.0	187.4
80°	220.0	190.1	195.5	171.1	141.2
82.5°	146.6	124.9	130.3	108.6	95.0
85°	81.5	70.6	73.3	57.0	43.4
87.5°	38.0	32.6	32.6	21.7	13.6
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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CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-4000K

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	13.10	14.04	13.99	14.94	16.10	15.95	16.89	16.84	17.80	18.95
	3H	13.58	14.42	14.48	15.34	16.52	17.31	18.15	18.21	19.07	20.24
	4H	13.78	14.57	14.69	15.49	16.68	17.76	18.56	18.68	19.48	20.67
	6H	13.90	14.63	14.83	15.56	16.76	18.06	18.79	18.98	19.72	20.92
	8H	13.90	14.60	14.84	15.55	16.75	18.14	18.83	19.07	19.78	20.98
	12H	13.88	14.54	14.82	15.48	16.71	18.18	18.84	19.12	19.78	21.01
4H	2H	14.15	14.94	15.07	15.86	17.05	16.37	17.16	17.29	18.08	19.27
	3H	15.18	15.84	16.11	16.80	18.00	17.89	18.55	18.82	19.50	20.71
	4H	15.46	16.06	16.40	17.01	18.24	18.42	19.03	19.36	19.98	21.20
	6H	15.59	16.11	16.54	17.08	18.31	18.80	19.32	19.75	20.29	21.52
	8H	15.60	16.08	16.55	17.05	18.29	18.91	19.40	19.87	20.36	21.60
	12H	15.57	16.01	16.54	16.99	18.24	18.98	19.41	19.95	20.40	21.64
8H	4H	15.92	16.41	16.88	17.38	18.62	18.55	19.04	19.51	20.01	21.25
	6H	16.19	16.59	17.17	17.60	18.84	19.00	19.40	19.98	20.41	21.65
	8H	16.23	16.59	17.22	17.58	18.84	19.16	19.51	20.15	20.51	21.77
	12H	16.22	16.53	17.21	17.52	18.83	19.26	19.57	20.26	20.56	21.87
12H	4H	15.93	16.37	16.91	17.36	18.60	18.52	18.96	19.50	19.94	21.19
	6H	16.25	16.61	17.24	17.60	18.86	19.00	19.35	19.99	20.35	21.61
	8H	16.32	16.63	17.32	17.62	18.93	19.17	19.48	20.16	20.47	21.77