

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: P934327

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

**Test Information**

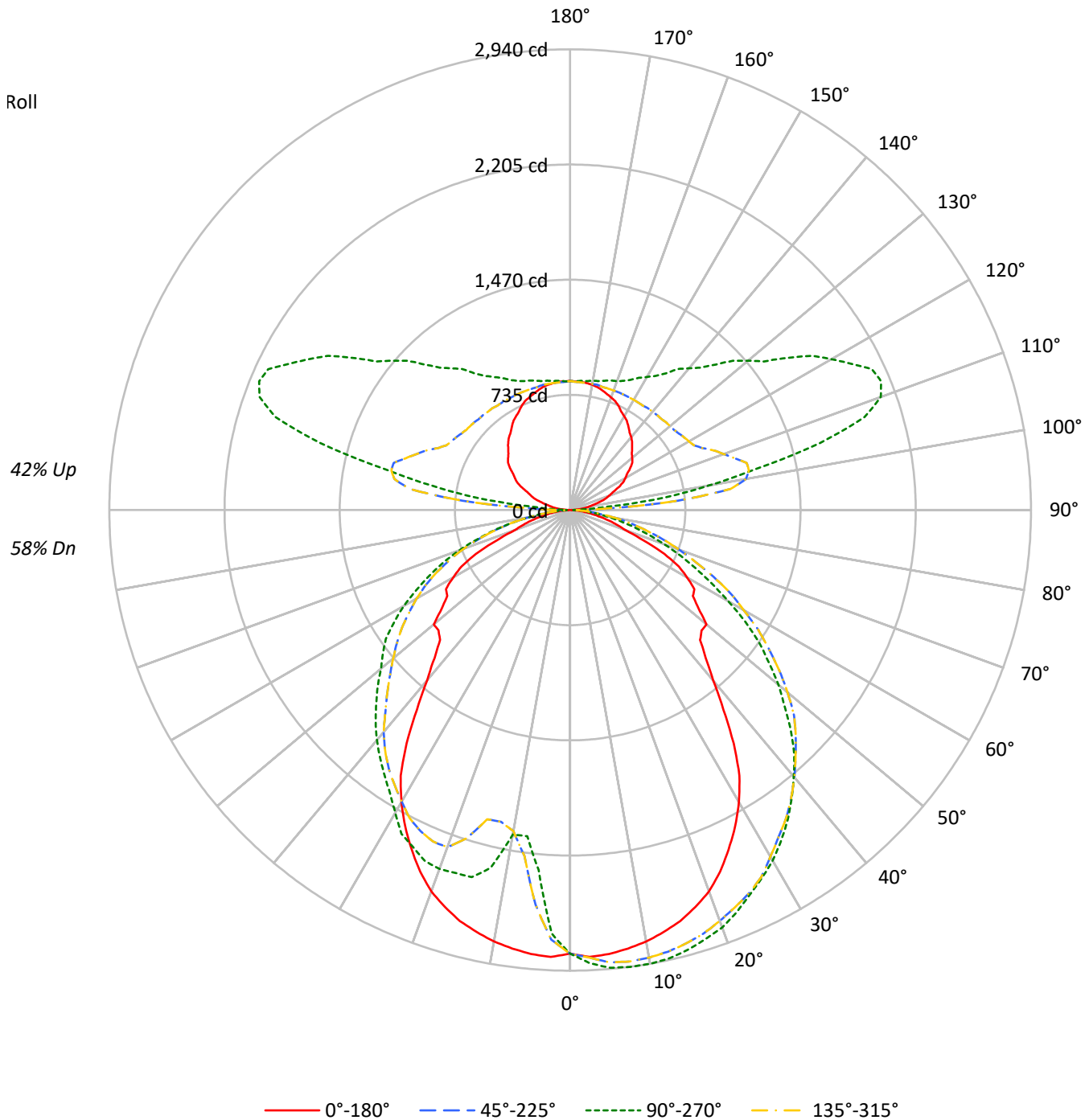
Test Method: LM-79-2019  
Report Number: P934327  
REPORT IS A COMBINATION OF REPORTS P933693 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12673.3 lumens  
Efficiency: N/A  
Efficacy: 116.1 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°	8755	8755	8755	8755
5°	8824	8838	8824	6949
10°	8768	8706	8768	6224
15°	8676	8517	8676	7112
20°	8498	8294	8498	7127
25°	8130	7968	8130	6976
30°	7653	7697	7653	6644
35°	6826	7355	6826	6280
40°	5691	6952	5691	6004
45°	5088	6480	5088	5688
50°	5410	5918	5410	5370
55°	5095	5312	5095	5186
60°	5258	4512	5258	4750
65°	4775	3730	4775	4169
70°	3315	2972	3315	3495
75°	2917	2197	2917	2631
80°	2368	1452	2368	1581
85°	1387	769	1387	654

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7793 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.5	2.0
10°-20°	725.5	5.7
20°-30°	1121.4	8.8
30°-40°	1338.7	10.6
40°-50°	1346.6	10.6
50°-60°	1171.7	9.2
60°-70°	830.7	6.6
70°-80°	439.5	3.5
80°-90°	112.6	0.9
90°-100°	400.9	3.2
100°-110°	1053.9	8.3
110°-120°	1092.8	8.6
120°-130°	876.5	6.9
130°-140°	687.8	5.4
140°-150°	527.9	4.2
150°-160°	380.2	3.0
160°-170°	232.6	1.8
170°-180°	78.6	0.6
0°-30°	2102.4	16.6
0°-40°	3441.1	27.2
0°-60°	5959.3	47.0
0°-90°	7342.2	57.9
90°-120°	2547.5	20.1
90°-150°	4639.7	36.6
90°-180°	5331.0	42.1
0°-180°	12673.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2831	2831	2831	2831	2831	
5°	2844	2932	2844	2306	2844	270
15°	2715	2906	2715	2426	2715	764
25°	2391	2710	2391	2373	2391	1098
35°	1818	2418	1818	2065	1818	1125
45°	1173	1992	1173	1749	1173	940
55°	956	1470	956	1435	956	878
65°	664	886	664	991	664	635
75°	252	420	252	503	252	265
85°	43	107	43	91	43	58
90°	6	21	6	21	6	6
95°	53	242	53	242	53	59
105°	190	1650	190	1650	190	201
115°	337	2125	337	2125	337	333
125°	469	1692	469	1692	469	416
135°	559	1313	559	1313	559	433
145°	648	1065	648	1065	648	406
155°	733	917	733	917	733	337
165°	791	854	791	854	791	223
175°	822	828	822	828	822	78
180°	822	822	822	822	822	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2854.7	2854.7	2870.8	2876.1	2876.1	2868.1	2860.0	2868.1	2892.2	2900.2	2897.5
5°	2844.0	2865.4	2894.9	2900.2	2905.6	2902.9	2897.5	2902.9	2929.7	2935.0	2937.7
7.5°	2822.6	2862.7	2900.2	2908.2	2916.3	2908.2	2905.6	2910.9	2937.7	2943.1	2943.1
10°	2795.8	2852.0	2894.9	2900.2	2908.2	2900.2	2900.2	2910.9	2937.7	2943.1	2945.7
12.5°	2758.3	2835.9	2876.1	2881.5	2892.2	2889.5	2886.8	2897.5	2924.3	2929.7	2929.7
15°	2715.4	2806.5	2844.0	2849.3	2868.1	2862.7	2862.7	2873.4	2902.9	2910.9	2908.2
17.5°	2656.5	2769.0	2811.8	2819.9	2833.3	2830.6	2833.3	2844.0	2870.8	2876.1	2878.8
20°	2589.6	2718.1	2769.0	2777.0	2790.4	2790.4	2790.4	2803.8	2830.6	2841.3	2841.3
22.5°	2498.5	2664.6	2718.1	2723.5	2739.5	2739.5	2744.9	2763.6	2787.7	2790.4	2790.4
25°	2391.4	2605.6	2651.2	2667.2	2683.3	2691.3	2699.4	2710.1	2718.1	2715.4	2718.1
27.5°	2278.9	2530.7	2589.6	2600.3	2621.7	2629.7	2640.5	2643.1	2645.8	2653.8	2648.5
30°	2153.0	2426.2	2514.6	2525.3	2560.1	2565.5	2554.8	2560.1	2573.5	2578.9	2584.2
32.5°	2011.1	2270.8	2436.9	2461.0	2493.2	2477.1	2474.4	2482.5	2503.9	2503.9	2509.2
35°	1818.3	2150.3	2364.6	2386.1	2410.2	2391.4	2402.1	2404.8	2418.2	2426.2	2423.6
37.5°	1606.7	2045.9	2289.6	2305.6	2324.4	2300.3	2316.3	2324.4	2335.1	2329.7	2329.7
40°	1419.3	1882.5	2201.2	2211.9	2228.0	2209.2	2225.3	2230.7	2236.0	2230.7	2228.0
42.5°	1280.0	1703.1	2107.5	2120.9	2110.2	2123.5	2128.9	2139.6	2131.6	2120.9	2120.9
45°	1172.9	1654.9	2005.7	2021.8	2005.7	2027.1	2035.2	2035.2	2011.1	2005.7	2003.0
47.5°	1138.1	1558.5	1904.0	1904.0	1895.9	1922.7	1936.1	1917.3	1893.2	1885.2	1885.2
50°	1135.4	1451.4	1764.7	1754.0	1791.5	1823.6	1810.2	1791.5	1772.7	1743.3	1743.3
52.5°	1031.0	1320.2	1585.3	1625.5	1684.4	1703.1	1681.7	1663.0	1630.8	1617.4	1606.7
55°	956.0	1183.6	1421.9	1502.3	1563.9	1588.0	1547.8	1529.1	1480.9	1472.8	1467.5
57.5°	939.9	985.5	1272.0	1373.7	1448.7	1446.0	1421.9	1387.1	1347.0	1338.9	1336.3
60°	862.3	712.3	1111.3	1231.8	1309.5	1301.4	1280.0	1247.9	1210.4	1205.0	1199.7
62.5°	781.9	516.8	929.2	1065.8	1175.6	1172.9	1154.2	1106.0	1079.2	1065.8	1055.1
65°	664.1	433.8	661.4	886.4	1044.4	1049.7	1009.6	974.7	945.3	929.2	926.5
67.5°	506.1	353.5	447.2	739.1	918.5	913.2	862.3	846.2	808.7	800.7	784.6
70°	374.9	235.7	310.6	599.8	795.3	781.9	741.8	723.0	688.2	669.5	658.8
72.5°	310.6	190.1	227.6	465.9	669.5	653.4	618.6	597.2	567.7	551.6	540.9
75°	251.7	200.8	174.1	345.4	543.6	532.9	500.8	479.3	455.2	433.8	436.5
77.5°	184.8	187.5	139.2	254.4	431.1	415.1	396.3	369.5	358.8	337.4	337.4
80°	139.2	147.3	104.4	174.1	310.6	310.6	294.6	275.8	257.1	246.4	246.4
82.5°	93.7	93.7	77.7	109.8	211.6	203.5	192.8	187.5	176.7	171.4	171.4
85°	42.8	53.6	48.2	66.9	115.1	120.5	120.5	115.1	112.5	107.1	109.8
87.5°	13.4	24.1	29.5	37.5	58.9	61.6	64.3	64.3	64.3	66.9	66.9
90°	5.5	9.9	14.4	15.4	24.3	36.1	42.0	37.3	27.9	21.0	21.0
92.5°	22.0	59.5	97.1	106.5	149.7	207.4	236.2	207.0	148.6	104.9	100.7
95°	53.0	121.7	190.4	207.5	368.5	583.1	690.4	616.1	467.5	356.0	343.3
97.5°	91.6	152.2	212.8	228.0	496.4	854.2	1033.2	986.3	892.3	821.8	797.8
100°	121.4	176.4	231.3	245.0	542.9	940.0	1138.6	1142.0	1148.9	1154.1	1125.4
102.5°	146.8	198.1	249.3	262.2	564.2	967.1	1168.4	1228.2	1347.9	1437.7	1413.2
105°	189.9	233.2	276.6	287.5	580.0	970.1	1165.1	1299.3	1567.6	1768.9	1755.7
107.5°	234.0	274.5	315.0	325.1	583.1	927.0	1098.9	1286.1	1660.5	1941.2	1944.4
110°	263.9	300.4	337.0	346.1	578.6	888.7	1043.7	1253.0	1671.4	1985.3	1999.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	293.0	327.9	362.7	371.4	578.8	855.2	993.5	1207.6	1635.9	1957.2	1978.2
115°	337.2	369.4	401.5	409.5	584.1	816.9	933.3	1139.6	1552.2	1861.6	1890.9
117.5°	380.8	410.0	439.2	446.5	594.9	792.9	891.9	1078.1	1450.4	1729.7	1762.1
120°	406.2	433.7	461.1	468.0	603.8	784.9	875.4	1045.5	1385.7	1640.9	1672.4
122.5°	431.0	458.8	486.5	493.4	616.5	780.6	862.6	1015.8	1322.2	1552.0	1583.1
125°	469.2	494.4	519.7	526.0	633.7	777.1	848.9	979.0	1239.2	1434.4	1463.1
127.5°	500.0	525.6	551.1	557.4	650.7	775.1	837.3	949.0	1172.5	1340.1	1364.3
130°	516.6	544.1	571.5	578.4	663.2	776.3	832.9	932.3	1131.3	1280.5	1302.8
132.5°	533.7	561.2	588.7	595.6	673.4	777.1	829.0	918.1	1096.1	1229.7	1249.7
135°	559.1	584.1	609.1	615.4	684.4	776.4	822.4	897.0	1046.2	1158.0	1175.2
137.5°	585.0	609.8	634.7	640.8	701.0	781.2	821.3	884.3	1010.4	1105.0	1119.1
140°	606.5	629.4	652.1	657.9	711.1	781.9	817.4	871.8	980.8	1062.5	1075.7
142.5°	623.1	644.2	665.4	670.6	719.5	784.8	817.4	865.2	960.9	1032.7	1044.0
145°	648.5	666.9	685.3	689.9	730.6	784.8	811.9	851.0	929.3	988.0	996.5
147.5°	673.9	691.8	709.7	714.2	746.8	790.2	811.9	842.7	904.3	950.5	957.6
150°	690.4	706.6	722.8	726.9	755.2	793.0	811.9	837.9	889.9	928.9	934.7
152.5°	707.6	719.8	732.1	735.2	760.8	794.9	811.9	834.2	878.5	911.8	916.2
155°	732.9	742.0	751.1	753.4	772.9	798.9	811.9	829.6	864.9	891.4	894.2
157.5°	751.8	760.6	769.3	771.6	785.1	803.0	811.9	825.7	853.1	873.7	875.7
160°	764.4	771.3	778.2	779.9	790.6	804.8	811.9	823.7	847.2	864.9	866.0
162.5°	777.1	782.3	787.5	788.7	796.5	806.7	811.9	821.8	841.7	856.6	857.6
165°	791.0	795.6	800.2	801.4	804.9	809.6	811.9	819.1	833.3	843.9	845.0
167.5°	803.6	805.8	808.0	808.5	811.5	815.4	817.4	822.0	831.4	838.3	838.9
170°	811.9	814.1	816.3	816.8	817.0	817.3	817.4	822.0	831.4	838.3	838.3
172.5°	816.3	816.7	817.3	817.4	817.4	817.4	817.4	821.0	828.4	834.0	833.5
175°	822.4	822.4	822.4	822.4	820.7	818.4	817.4	819.7	824.4	827.9	827.9
177.5°	822.4	822.4	822.4	822.4	821.1	819.4	818.5	820.4	824.1	826.8	826.3
180°	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2902.9	2894.9	2902.9	2897.5	2900.2	2892.2	2868.1	2860.0	2868.1	2876.1	2876.1
5°	2937.7	2932.3	2937.7	2937.7	2935.0	2929.7	2902.9	2897.5	2902.9	2905.6	2900.2
7.5°	2948.4	2940.4	2948.4	2943.1	2943.1	2937.7	2910.9	2905.6	2908.2	2916.3	2908.2
10°	2948.4	2940.4	2948.4	2945.7	2943.1	2937.7	2910.9	2900.2	2900.2	2908.2	2900.2
12.5°	2935.0	2929.7	2935.0	2929.7	2929.7	2924.3	2897.5	2886.8	2889.5	2892.2	2881.5
15°	2913.6	2905.6	2913.6	2908.2	2910.9	2902.9	2873.4	2862.7	2862.7	2868.1	2849.3
17.5°	2881.5	2870.8	2881.5	2878.8	2876.1	2870.8	2844.0	2833.3	2830.6	2833.3	2819.9
20°	2844.0	2835.9	2844.0	2841.3	2841.3	2830.6	2803.8	2790.4	2790.4	2790.4	2777.0
22.5°	2785.1	2777.0	2785.1	2790.4	2790.4	2787.7	2763.6	2744.9	2739.5	2739.5	2723.5
25°	2718.1	2710.1	2718.1	2718.1	2715.4	2718.1	2710.1	2699.4	2691.3	2683.3	2667.2
27.5°	2653.8	2648.5	2653.8	2648.5	2653.8	2645.8	2643.1	2640.5	2629.7	2621.7	2600.3
30°	2589.6	2584.2	2589.6	2584.2	2578.9	2573.5	2560.1	2554.8	2565.5	2560.1	2525.3
32.5°	2509.2	2503.9	2509.2	2509.2	2503.9	2503.9	2482.5	2474.4	2477.1	2493.2	2461.0
35°	2426.2	2418.2	2426.2	2423.6	2426.2	2418.2	2404.8	2402.1	2391.4	2410.2	2386.1
37.5°	2329.7	2321.7	2329.7	2329.7	2329.7	2335.1	2324.4	2316.3	2300.3	2324.4	2305.6
40°	2230.7	2219.9	2230.7	2228.0	2230.7	2236.0	2230.7	2225.3	2209.2	2228.0	2211.9
42.5°	2118.2	2115.5	2118.2	2120.9	2120.9	2131.6	2139.6	2128.9	2123.5	2110.2	2120.9
45°	1997.7	1992.3	1997.7	2003.0	2005.7	2011.1	2035.2	2035.2	2027.1	2005.7	2021.8
47.5°	1869.1	1855.8	1869.1	1885.2	1885.2	1893.2	1917.3	1936.1	1922.7	1895.9	1904.0
50°	1732.6	1735.3	1732.6	1743.3	1743.3	1772.7	1791.5	1810.2	1823.6	1791.5	1754.0
52.5°	1598.7	1596.0	1598.7	1606.7	1617.4	1630.8	1663.0	1681.7	1703.1	1684.4	1625.5
55°	1464.8	1470.1	1464.8	1467.5	1472.8	1480.9	1529.1	1547.8	1588.0	1563.9	1502.3
57.5°	1330.9	1322.9	1330.9	1336.3	1338.9	1347.0	1387.1	1421.9	1446.0	1448.7	1373.7
60°	1175.6	1164.9	1175.6	1199.7	1205.0	1210.4	1247.9	1280.0	1301.4	1309.5	1231.8
62.5°	1039.0	1020.3	1039.0	1055.1	1065.8	1079.2	1106.0	1154.2	1172.9	1175.6	1065.8
65°	894.4	886.4	894.4	926.5	929.2	945.3	974.7	1009.6	1049.7	1044.4	886.4
67.5°	763.2	763.2	763.2	784.6	800.7	808.7	846.2	862.3	913.2	918.5	739.1
70°	642.7	640.0	642.7	658.8	669.5	688.2	723.0	741.8	781.9	795.3	599.8
72.5°	527.5	524.9	527.5	540.9	551.6	567.7	597.2	618.6	653.4	669.5	465.9
75°	425.8	420.4	425.8	436.5	433.8	455.2	479.3	500.8	532.9	543.6	345.4
77.5°	326.7	326.7	326.7	337.4	337.4	358.8	369.5	396.3	415.1	431.1	254.4
80°	243.7	241.0	243.7	246.4	246.4	257.1	275.8	294.6	310.6	310.6	174.1
82.5°	171.4	166.0	171.4	171.4	171.4	176.7	187.5	192.8	203.5	211.6	109.8
85°	107.1	107.1	107.1	109.8	107.1	112.5	115.1	120.5	120.5	115.1	66.9
87.5°	69.6	66.9	69.6	66.9	66.9	64.3	64.3	64.3	61.6	58.9	37.5
90°	21.0	21.0	21.0	21.0	21.0	27.9	37.3	42.0	36.1	24.3	15.4
92.5°	84.0	67.3	84.0	100.7	104.9	148.6	207.0	236.2	207.4	149.7	106.5
95°	292.8	242.3	292.8	343.3	356.0	467.5	616.1	690.4	583.1	368.5	207.5
97.5°	701.6	605.5	701.6	797.8	821.8	892.3	986.3	1033.2	854.2	496.4	228.0
100°	1010.9	896.4	1010.9	1125.4	1154.1	1148.9	1142.0	1138.6	940.0	542.9	245.0
102.5°	1315.1	1217.0	1315.1	1413.2	1437.7	1347.9	1228.2	1168.4	967.1	564.2	262.2
105°	1703.0	1650.3	1703.0	1755.7	1768.9	1567.6	1299.3	1165.1	970.1	580.0	287.5
107.5°	1957.1	1969.8	1957.1	1944.4	1941.2	1660.5	1286.1	1098.9	927.0	583.1	325.1
110°	2053.9	2108.9	2053.9	1999.0	1985.3	1671.4	1253.0	1043.7	888.7	578.6	346.1





TEST NUMBER: P934327

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2062.7	2147.0	2062.7	1978.2	1957.2	1635.9	1207.6	993.5	855.2	578.8	371.4
115°	2007.9	2125.0	2007.9	1890.9	1861.6	1552.2	1139.6	933.3	816.9	584.1	409.5
117.5°	1891.9	2021.7	1891.9	1762.1	1729.7	1450.4	1078.1	891.9	792.9	594.9	446.5
120°	1798.5	1924.6	1798.5	1672.4	1640.9	1385.7	1045.5	875.4	784.9	603.8	468.0
122.5°	1707.5	1831.8	1707.5	1583.1	1552.0	1322.2	1015.8	862.6	780.6	616.5	493.4
125°	1577.6	1692.2	1577.6	1463.1	1434.4	1239.2	979.0	848.9	777.1	633.7	526.0
127.5°	1460.9	1557.5	1460.9	1364.3	1340.1	1172.5	949.0	837.3	775.1	650.7	557.4
130°	1392.1	1481.4	1392.1	1302.8	1280.5	1131.3	932.3	832.9	776.3	663.2	578.4
132.5°	1329.6	1409.6	1329.6	1249.7	1229.7	1096.1	918.1	829.0	777.1	673.4	595.6
135°	1244.1	1313.0	1244.1	1175.2	1158.0	1046.2	897.0	822.4	776.4	684.4	615.4
137.5°	1175.5	1231.9	1175.5	1119.1	1105.0	1010.4	884.3	821.3	781.2	701.0	640.8
140°	1128.4	1181.1	1128.4	1075.7	1062.5	980.8	871.8	817.4	781.9	711.1	657.9
142.5°	1089.4	1134.8	1089.4	1044.0	1032.7	960.9	865.2	817.4	784.8	719.5	670.6
145°	1030.9	1065.3	1030.9	996.5	988.0	929.3	851.0	811.9	784.8	730.6	689.9
147.5°	986.0	1014.5	986.0	957.6	950.5	904.3	842.7	811.9	790.2	746.8	714.2
150°	957.7	980.8	957.7	934.7	928.9	889.9	837.9	811.9	793.0	755.2	726.9
152.5°	933.6	951.0	933.6	916.2	911.8	878.5	834.2	811.9	794.9	760.8	735.2
155°	905.8	917.3	905.8	894.2	891.4	864.9	829.6	811.9	798.9	772.9	753.4
157.5°	883.8	891.9	883.8	875.7	873.7	853.1	825.7	811.9	803.0	785.1	771.6
160°	870.8	875.4	870.8	866.0	864.9	847.2	823.7	811.9	804.8	790.6	779.9
162.5°	862.1	866.6	862.1	857.6	856.6	841.7	821.8	811.9	806.7	796.5	788.7
165°	849.8	854.4	849.8	845.0	843.9	833.3	819.1	811.9	809.6	804.9	801.4
167.5°	840.8	842.8	840.8	838.9	838.3	831.4	822.0	817.4	815.4	811.5	808.5
170°	838.3	838.3	838.3	838.3	838.3	831.4	822.0	817.4	817.3	817.0	816.8
172.5°	831.8	830.1	831.8	833.5	834.0	828.4	821.0	817.4	817.4	817.4	817.4
175°	827.9	827.9	827.9	827.9	827.9	824.4	819.7	817.4	818.4	820.7	822.4
177.5°	824.3	822.4	824.3	826.3	826.8	824.1	820.4	818.5	819.4	821.1	822.4
180°	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4



TEST NUMBER: P934327

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2870.8	2854.7	2854.7	2827.9	2817.2	2809.2	2795.8	2755.6	2744.9	2734.2	2750.3
5°	2894.9	2865.4	2844.0	2795.8	2755.6	2739.5	2688.7	2592.3	2528.0	2479.8	2453.0
7.5°	2900.2	2862.7	2822.6	2747.6	2651.2	2608.3	2453.0	2276.2	2228.0	2185.1	2158.4
10°	2894.9	2852.0	2795.8	2683.3	2455.7	2380.7	2225.3	2110.2	2080.7	2072.7	2080.7
12.5°	2876.1	2835.9	2758.3	2570.8	2252.1	2201.2	2110.2	2043.2	2037.9	2051.2	2123.5
15°	2844.0	2806.5	2715.4	2420.9	2139.6	2102.1	2037.9	2013.8	2043.2	2136.9	2353.8
17.5°	2811.8	2769.0	2656.5	2273.5	2053.9	2027.1	1981.6	2029.8	2195.8	2321.7	2394.1
20°	2769.0	2718.1	2589.6	2166.4	1992.3	1968.2	1946.8	2163.7	2289.6	2335.1	2375.4
22.5°	2718.1	2664.6	2498.5	2091.4	1928.1	1909.3	1922.7	2238.7	2289.6	2321.7	2356.5
25°	2651.2	2605.6	2391.4	2032.5	1877.2	1855.8	1906.6	2230.7	2260.1	2268.1	2337.8
27.5°	2589.6	2530.7	2278.9	1978.9	1815.6	1807.6	1920.0	2195.8	2217.3	2225.3	2300.3
30°	2514.6	2426.2	2153.0	1922.7	1751.3	1748.6	1922.7	2153.0	2147.6	2169.1	2244.0
32.5°	2436.9	2270.8	2011.1	1853.1	1689.7	1687.1	1904.0	2088.7	2083.4	2112.8	2169.1
35°	2364.6	2150.3	1818.3	1772.7	1612.1	1614.7	1858.4	2013.8	2016.4	2043.2	2078.0
37.5°	2289.6	2045.9	1606.7	1684.4	1537.1	1537.1	1796.8	1944.1	1938.8	1946.8	1995.0
40°	2201.2	1882.5	1419.3	1569.2	1467.5	1459.4	1721.9	1869.1	1850.4	1847.7	1914.7
42.5°	2107.5	1703.1	1280.0	1416.6	1387.1	1376.4	1630.8	1778.1	1743.3	1751.3	1837.0
45°	2005.7	1654.9	1172.9	1197.0	1304.1	1296.1	1531.7	1673.7	1649.6	1671.0	1759.4
47.5°	1904.0	1558.5	1138.1	993.5	1215.7	1213.1	1421.9	1571.9	1558.5	1579.9	1673.7
50°	1764.7	1451.4	1135.4	851.6	1116.7	1127.4	1290.7	1472.8	1472.8	1491.6	1590.6
52.5°	1585.3	1320.2	1031.0	771.2	1001.5	1033.7	1175.6	1387.1	1392.5	1411.2	1499.6
55°	1421.9	1183.6	956.0	709.6	864.9	934.6	1063.1	1298.8	1309.5	1328.2	1408.6
57.5°	1272.0	985.5	939.9	637.3	739.1	806.0	964.0	1213.1	1218.4	1234.5	1312.2
60°	1111.3	712.3	862.3	559.7	629.3	680.2	873.0	1111.3	1130.1	1140.8	1207.7
62.5°	929.2	516.8	781.9	506.1	575.7	586.5	798.0	1014.9	1039.0	1047.0	1087.2
65°	661.4	433.8	664.1	460.6	519.5	522.2	717.7	915.8	937.3	950.6	980.1
67.5°	447.2	353.5	506.1	417.7	476.7	479.3	640.0	800.7	830.1	840.8	859.6
70°	310.6	235.7	374.9	372.2	428.5	433.8	557.0	696.2	723.0	731.1	741.8
72.5°	227.6	190.1	310.6	334.7	377.6	382.9	471.3	578.4	605.2	613.2	618.6
75°	174.1	200.8	251.7	291.9	321.3	324.0	385.6	471.3	490.0	495.4	498.1
77.5°	139.2	187.5	184.8	235.7	262.4	257.1	302.6	364.2	380.3	380.3	380.3
80°	104.4	147.3	139.2	168.7	192.8	187.5	216.9	259.8	265.1	270.5	267.8
82.5°	77.7	93.7	93.7	107.1	128.5	123.2	144.6	168.7	168.7	168.7	174.1
85°	48.2	53.6	42.8	56.2	72.3	69.6	80.3	91.0	93.7	93.7	88.4
87.5°	29.5	24.1	13.4	21.4	32.1	32.1	37.5	40.2	37.5	37.5	37.5
90°	14.4	9.9	5.5	9.9	14.4	15.4	24.3	36.1	42.0	37.3	27.9
92.5°	97.1	59.5	22.0	59.5	97.1	106.5	149.7	207.4	236.2	207.0	148.6
95°	190.4	121.7	53.0	121.7	190.4	207.5	368.5	583.1	690.4	616.1	467.5
97.5°	212.8	152.2	91.6	152.2	212.8	228.0	496.4	854.2	1033.2	986.3	892.3
100°	231.3	176.4	121.4	176.4	231.3	245.0	542.9	940.0	1138.6	1142.0	1148.9
102.5°	249.3	198.1	146.8	198.1	249.3	262.2	564.2	967.1	1168.4	1228.2	1347.9
105°	276.6	233.2	189.9	233.2	276.6	287.5	580.0	970.1	1165.1	1299.3	1567.6
107.5°	315.0	274.5	234.0	274.5	315.0	325.1	583.1	927.0	1098.9	1286.1	1660.5
110°	337.0	300.4	263.9	300.4	337.0	346.1	578.6	888.7	1043.7	1253.0	1671.4



TEST NUMBER: P934327

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	362.7	327.9	293.0	327.9	362.7	371.4	578.8	855.2	993.5	1207.6	1635.9
115°	401.5	369.4	337.2	369.4	401.5	409.5	584.1	816.9	933.3	1139.6	1552.2
117.5°	439.2	410.0	380.8	410.0	439.2	446.5	594.9	792.9	891.9	1078.1	1450.4
120°	461.1	433.7	406.2	433.7	461.1	468.0	603.8	784.9	875.4	1045.5	1385.7
122.5°	486.5	458.8	431.0	458.8	486.5	493.4	616.5	780.6	862.6	1015.8	1322.2
125°	519.7	494.4	469.2	494.4	519.7	526.0	633.7	777.1	848.9	979.0	1239.2
127.5°	551.1	525.6	500.0	525.6	551.1	557.4	650.7	775.1	837.3	949.0	1172.5
130°	571.5	544.1	516.6	544.1	571.5	578.4	663.2	776.3	832.9	932.3	1131.3
132.5°	588.7	561.2	533.7	561.2	588.7	595.6	673.4	777.1	829.0	918.1	1096.1
135°	609.1	584.1	559.1	584.1	609.1	615.4	684.4	776.4	822.4	897.0	1046.2
137.5°	634.7	609.8	585.0	609.8	634.7	640.8	701.0	781.2	821.3	884.3	1010.4
140°	652.1	629.4	606.5	629.4	652.1	657.9	711.1	781.9	817.4	871.8	980.8
142.5°	665.4	644.2	623.1	644.2	665.4	670.6	719.5	784.8	817.4	865.2	960.9
145°	685.3	666.9	648.5	666.9	685.3	689.9	730.6	784.8	811.9	851.0	929.3
147.5°	709.7	691.8	673.9	691.8	709.7	714.2	746.8	790.2	811.9	842.7	904.3
150°	722.8	706.6	690.4	706.6	722.8	726.9	755.2	793.0	811.9	837.9	889.9
152.5°	732.1	719.8	707.6	719.8	732.1	735.2	760.8	794.9	811.9	834.2	878.5
155°	751.1	742.0	732.9	742.0	751.1	753.4	772.9	798.9	811.9	829.6	864.9
157.5°	769.3	760.6	751.8	760.6	769.3	771.6	785.1	803.0	811.9	825.7	853.1
160°	778.2	771.3	764.4	771.3	778.2	779.9	790.6	804.8	811.9	823.7	847.2
162.5°	787.5	782.3	777.1	782.3	787.5	788.7	796.5	806.7	811.9	821.8	841.7
165°	800.2	795.6	791.0	795.6	800.2	801.4	804.9	809.6	811.9	819.1	833.3
167.5°	808.0	805.8	803.6	805.8	808.0	808.5	811.5	815.4	817.4	822.0	831.4
170°	816.3	814.1	811.9	814.1	816.3	816.8	817.0	817.3	817.4	822.0	831.4
172.5°	817.3	816.7	816.3	816.7	817.3	817.4	817.4	817.4	817.4	821.0	828.4
175°	822.4	822.4	822.4	822.4	822.4	822.4	820.7	818.4	817.4	819.7	824.4
177.5°	822.4	822.4	822.4	822.4	822.4	822.4	821.1	819.4	818.5	820.4	824.1
180°	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4



TEST NUMBER: P934327

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2731.5	2723.5	2734.2	2704.7	2734.2	2723.5	2731.5	2750.3	2734.2	2744.9	2755.6
5°	2396.8	2383.4	2340.4	2305.6	2340.4	2383.4	2396.8	2453.0	2479.8	2528.0	2592.3
7.5°	2142.3	2131.6	2120.9	2099.4	2120.9	2131.6	2142.3	2158.4	2185.1	2228.0	2276.2
10°	2086.1	2088.7	2104.8	2102.1	2104.8	2088.7	2086.1	2080.7	2072.7	2080.7	2110.2
12.5°	2230.7	2254.8	2343.1	2337.8	2343.1	2254.8	2230.7	2123.5	2051.2	2037.9	2043.2
15°	2396.8	2404.8	2423.6	2426.2	2423.6	2404.8	2396.8	2353.8	2136.9	2043.2	2013.8
17.5°	2412.8	2415.5	2428.9	2428.9	2428.9	2415.5	2412.8	2394.1	2321.7	2195.8	2029.8
20°	2399.5	2404.8	2431.6	2436.9	2431.6	2404.8	2399.5	2375.4	2335.1	2289.6	2163.7
22.5°	2394.1	2404.8	2426.2	2423.6	2426.2	2404.8	2394.1	2356.5	2321.7	2289.6	2238.7
25°	2367.3	2367.3	2370.0	2372.7	2370.0	2367.3	2367.3	2337.8	2268.1	2260.1	2230.7
27.5°	2311.0	2316.3	2332.4	2329.7	2332.4	2316.3	2311.0	2300.3	2225.3	2217.3	2195.8
30°	2260.1	2254.8	2241.4	2230.7	2241.4	2254.8	2260.1	2244.0	2169.1	2147.6	2153.0
32.5°	2174.4	2161.0	2147.6	2139.6	2147.6	2161.0	2174.4	2169.1	2112.8	2083.4	2088.7
35°	2072.7	2075.3	2072.7	2064.6	2072.7	2075.3	2072.7	2078.0	2043.2	2016.4	2013.8
37.5°	2000.4	2005.7	2003.0	1992.3	2003.0	2005.7	2000.4	1995.0	1946.8	1938.8	1944.1
40°	1925.4	1928.1	1925.4	1917.3	1925.4	1928.1	1925.4	1914.7	1847.7	1850.4	1869.1
42.5°	1853.1	1850.4	1842.4	1837.0	1842.4	1850.4	1853.1	1837.0	1751.3	1743.3	1778.1
45°	1770.1	1772.7	1756.7	1748.6	1756.7	1772.7	1770.1	1759.4	1671.0	1649.6	1673.7
47.5°	1687.1	1687.1	1673.7	1665.6	1673.7	1687.1	1687.1	1673.7	1579.9	1558.5	1571.9
50°	1598.7	1596.0	1577.3	1574.6	1577.3	1596.0	1598.7	1590.6	1491.6	1472.8	1472.8
52.5°	1496.9	1496.9	1499.6	1505.0	1499.6	1496.9	1496.9	1499.6	1411.2	1392.5	1387.1
55°	1408.6	1411.2	1430.0	1435.3	1430.0	1411.2	1408.6	1408.6	1328.2	1309.5	1298.8
57.5°	1317.5	1317.5	1330.9	1330.9	1330.9	1317.5	1317.5	1312.2	1234.5	1218.4	1213.1
60°	1213.1	1218.4	1229.1	1226.5	1229.1	1218.4	1213.1	1207.7	1140.8	1130.1	1111.3
62.5°	1103.3	1108.6	1111.3	1106.0	1111.3	1108.6	1103.3	1087.2	1047.0	1039.0	1014.9
65°	988.1	993.5	996.2	990.8	996.2	993.5	988.1	980.1	950.6	937.3	915.8
67.5°	870.3	867.6	864.9	875.7	864.9	867.6	870.3	859.6	840.8	830.1	800.7
70°	749.8	749.8	747.1	752.5	747.1	749.8	749.8	741.8	731.1	723.0	696.2
72.5°	621.3	618.6	629.3	621.3	629.3	618.6	621.3	618.6	613.2	605.2	578.4
75°	495.4	500.8	495.4	503.4	495.4	500.8	495.4	498.1	495.4	490.0	471.3
77.5°	377.6	382.9	377.6	377.6	377.6	382.9	377.6	380.3	380.3	380.3	364.2
80°	267.8	265.1	265.1	262.4	265.1	265.1	267.8	267.8	270.5	265.1	259.8
82.5°	171.4	168.7	168.7	174.1	168.7	168.7	171.4	174.1	168.7	168.7	168.7
85°	93.7	96.4	91.0	91.0	91.0	96.4	93.7	88.4	93.7	93.7	91.0
87.5°	34.8	32.1	32.1	32.1	32.1	32.1	34.8	37.5	37.5	37.5	40.2
90°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	27.9	37.3	42.0	36.1
92.5°	104.9	100.7	84.0	67.3	84.0	100.7	104.9	148.6	207.0	236.2	207.4
95°	356.0	343.3	292.8	242.3	292.8	343.3	356.0	467.5	616.1	690.4	583.1
97.5°	821.8	797.8	701.6	605.5	701.6	797.8	821.8	892.3	986.3	1033.2	854.2
100°	1154.1	1125.4	1010.9	896.4	1010.9	1125.4	1154.1	1148.9	1142.0	1138.6	940.0
102.5°	1437.7	1413.2	1315.1	1217.0	1315.1	1413.2	1437.7	1347.9	1228.2	1168.4	967.1
105°	1768.9	1755.7	1703.0	1650.3	1703.0	1755.7	1768.9	1567.6	1299.3	1165.1	970.1
107.5°	1941.2	1944.4	1957.1	1969.8	1957.1	1944.4	1941.2	1660.5	1286.1	1098.9	927.0
110°	1985.3	1999.0	2053.9	2108.9	2053.9	1999.0	1985.3	1671.4	1253.0	1043.7	888.7



TEST NUMBER: P934327

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1957.2	1978.2	2062.7	2147.0	2062.7	1978.2	1957.2	1635.9	1207.6	993.5	855.2
115°	1861.6	1890.9	2007.9	2125.0	2007.9	1890.9	1861.6	1552.2	1139.6	933.3	816.9
117.5°	1729.7	1762.1	1891.9	2021.7	1891.9	1762.1	1729.7	1450.4	1078.1	891.9	792.9
120°	1640.9	1672.4	1798.5	1924.6	1798.5	1672.4	1640.9	1385.7	1045.5	875.4	784.9
122.5°	1552.0	1583.1	1707.5	1831.8	1707.5	1583.1	1552.0	1322.2	1015.8	862.6	780.6
125°	1434.4	1463.1	1577.6	1692.2	1577.6	1463.1	1434.4	1239.2	979.0	848.9	777.1
127.5°	1340.1	1364.3	1460.9	1557.5	1460.9	1364.3	1340.1	1172.5	949.0	837.3	775.1
130°	1280.5	1302.8	1392.1	1481.4	1392.1	1302.8	1280.5	1131.3	932.3	832.9	776.3
132.5°	1229.7	1249.7	1329.6	1409.6	1329.6	1249.7	1229.7	1096.1	918.1	829.0	777.1
135°	1158.0	1175.2	1244.1	1313.0	1244.1	1175.2	1158.0	1046.2	897.0	822.4	776.4
137.5°	1105.0	1119.1	1175.5	1231.9	1175.5	1119.1	1105.0	1010.4	884.3	821.3	781.2
140°	1062.5	1075.7	1128.4	1181.1	1128.4	1075.7	1062.5	980.8	871.8	817.4	781.9
142.5°	1032.7	1044.0	1089.4	1134.8	1089.4	1044.0	1032.7	960.9	865.2	817.4	784.8
145°	988.0	996.5	1030.9	1065.3	1030.9	996.5	988.0	929.3	851.0	811.9	784.8
147.5°	950.5	957.6	986.0	1014.5	986.0	957.6	950.5	904.3	842.7	811.9	790.2
150°	928.9	934.7	957.7	980.8	957.7	934.7	928.9	889.9	837.9	811.9	793.0
152.5°	911.8	916.2	933.6	951.0	933.6	916.2	911.8	878.5	834.2	811.9	794.9
155°	891.4	894.2	905.8	917.3	905.8	894.2	891.4	864.9	829.6	811.9	798.9
157.5°	873.7	875.7	883.8	891.9	883.8	875.7	873.7	853.1	825.7	811.9	803.0
160°	864.9	866.0	870.8	875.4	870.8	866.0	864.9	847.2	823.7	811.9	804.8
162.5°	856.6	857.6	862.1	866.6	862.1	857.6	856.6	841.7	821.8	811.9	806.7
165°	843.9	845.0	849.8	854.4	849.8	845.0	843.9	833.3	819.1	811.9	809.6
167.5°	838.3	838.9	840.8	842.8	840.8	838.9	838.3	831.4	822.0	817.4	815.4
170°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	831.4	822.0	817.4	817.3
172.5°	834.0	833.5	831.8	830.1	831.8	833.5	834.0	828.4	821.0	817.4	817.4
175°	827.9	827.9	827.9	827.9	827.9	827.9	827.9	824.4	819.7	817.4	818.4
177.5°	826.8	826.3	824.3	822.4	824.3	826.3	826.8	824.1	820.4	818.5	819.4
180°	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4



TEST NUMBER: P934327

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2795.8	2809.2	2817.2	2827.9	2854.7
5°	2688.7	2739.5	2755.6	2795.8	2844.0
7.5°	2453.0	2608.3	2651.2	2747.6	2822.6
10°	2225.3	2380.7	2455.7	2683.3	2795.8
12.5°	2110.2	2201.2	2252.1	2570.8	2758.3
15°	2037.9	2102.1	2139.6	2420.9	2715.4
17.5°	1981.6	2027.1	2053.9	2273.5	2656.5
20°	1946.8	1968.2	1992.3	2166.4	2589.6
22.5°	1922.7	1909.3	1928.1	2091.4	2498.5
25°	1906.6	1855.8	1877.2	2032.5	2391.4
27.5°	1920.0	1807.6	1815.6	1978.9	2278.9
30°	1922.7	1748.6	1751.3	1922.7	2153.0
32.5°	1904.0	1687.1	1689.7	1853.1	2011.1
35°	1858.4	1614.7	1612.1	1772.7	1818.3
37.5°	1796.8	1537.1	1537.1	1684.4	1606.7
40°	1721.9	1459.4	1467.5	1569.2	1419.3
42.5°	1630.8	1376.4	1387.1	1416.6	1280.0
45°	1531.7	1296.1	1304.1	1197.0	1172.9
47.5°	1421.9	1213.1	1215.7	993.5	1138.1
50°	1290.7	1127.4	1116.7	851.6	1135.4
52.5°	1175.6	1033.7	1001.5	771.2	1031.0
55°	1063.1	934.6	864.9	709.6	956.0
57.5°	964.0	806.0	739.1	637.3	939.9
60°	873.0	680.2	629.3	559.7	862.3
62.5°	798.0	586.5	575.7	506.1	781.9
65°	717.7	522.2	519.5	460.6	664.1
67.5°	640.0	479.3	476.7	417.7	506.1
70°	557.0	433.8	428.5	372.2	374.9
72.5°	471.3	382.9	377.6	334.7	310.6
75°	385.6	324.0	321.3	291.9	251.7
77.5°	302.6	257.1	262.4	235.7	184.8
80°	216.9	187.5	192.8	168.7	139.2
82.5°	144.6	123.2	128.5	107.1	93.7
85°	80.3	69.6	72.3	56.2	42.8
87.5°	37.5	32.1	32.1	21.4	13.4
90°	24.3	15.4	14.4	9.9	5.5
92.5°	149.7	106.5	97.1	59.5	22.0
95°	368.5	207.5	190.4	121.7	53.0
97.5°	496.4	228.0	212.8	152.2	91.6
100°	542.9	245.0	231.3	176.4	121.4
102.5°	564.2	262.2	249.3	198.1	146.8
105°	580.0	287.5	276.6	233.2	189.9
107.5°	583.1	325.1	315.0	274.5	234.0
110°	578.6	346.1	337.0	300.4	263.9



TEST NUMBER: P934327

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	578.8	371.4	362.7	327.9	293.0
115°	584.1	409.5	401.5	369.4	337.2
117.5°	594.9	446.5	439.2	410.0	380.8
120°	603.8	468.0	461.1	433.7	406.2
122.5°	616.5	493.4	486.5	458.8	431.0
125°	633.7	526.0	519.7	494.4	469.2
127.5°	650.7	557.4	551.1	525.6	500.0
130°	663.2	578.4	571.5	544.1	516.6
132.5°	673.4	595.6	588.7	561.2	533.7
135°	684.4	615.4	609.1	584.1	559.1
137.5°	701.0	640.8	634.7	609.8	585.0
140°	711.1	657.9	652.1	629.4	606.5
142.5°	719.5	670.6	665.4	644.2	623.1
145°	730.6	689.9	685.3	666.9	648.5
147.5°	746.8	714.2	709.7	691.8	673.9
150°	755.2	726.9	722.8	706.6	690.4
152.5°	760.8	735.2	732.1	719.8	707.6
155°	772.9	753.4	751.1	742.0	732.9
157.5°	785.1	771.6	769.3	760.6	751.8
160°	790.6	779.9	778.2	771.3	764.4
162.5°	796.5	788.7	787.5	782.3	777.1
165°	804.9	801.4	800.2	795.6	791.0
167.5°	811.5	808.5	808.0	805.8	803.6
170°	817.0	816.8	816.3	814.1	811.9
172.5°	817.4	817.4	817.3	816.7	816.3
175°	820.7	822.4	822.4	822.4	822.4
177.5°	821.1	822.4	822.4	822.4	822.4
180°	822.4	822.4	822.4	822.4	822.4



TEST NUMBER: P934327  
 CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-3500K

**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	13.05	13.99	13.94	14.90	16.05	15.90	16.84	16.79	17.75	18.90
	3H	13.53	14.38	14.43	15.29	16.47	17.26	18.10	18.16	19.02	20.20
	4H	13.73	14.52	14.64	15.44	16.63	17.71	18.51	18.63	19.43	20.62
	6H	13.85	14.58	14.78	15.51	16.71	18.01	18.74	18.93	19.67	20.87
	8H	13.86	14.55	14.79	15.50	16.70	18.09	18.78	19.02	19.73	20.93
	12H	13.83	14.49	14.77	15.43	16.66	18.13	18.80	19.07	19.73	20.96
4H	2H	14.10	14.89	15.02	15.81	17.00	16.32	17.12	17.24	18.04	19.22
	3H	15.13	15.80	16.06	16.75	17.95	17.84	18.50	18.77	19.45	20.66
	4H	15.41	16.02	16.35	16.96	18.19	18.38	18.98	19.32	19.93	21.15
	6H	15.54	16.06	16.50	17.03	18.26	18.75	19.27	19.70	20.24	21.47
	8H	15.55	16.04	16.50	17.00	18.24	18.86	19.35	19.82	20.31	21.56
	12H	15.52	15.96	16.49	16.94	18.19	18.93	19.37	19.90	20.35	21.59
8H	4H	15.88	16.36	16.83	17.33	18.57	18.51	18.99	19.46	19.96	21.20
	6H	16.14	16.54	17.12	17.55	18.79	18.95	19.35	19.93	20.36	21.60
	8H	16.18	16.54	17.17	17.53	18.79	19.11	19.46	20.10	20.46	21.72
	12H	16.17	16.48	17.17	17.47	18.78	19.21	19.53	20.21	20.51	21.82
12H	4H	15.89	16.32	16.86	17.31	18.55	18.47	18.91	19.45	19.89	21.14
	6H	16.20	16.56	17.19	17.55	18.81	18.95	19.30	19.94	20.30	21.56
	8H	16.27	16.59	17.27	17.57	18.88	19.12	19.43	20.11	20.42	21.72