

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: P934354

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

**Test Information**

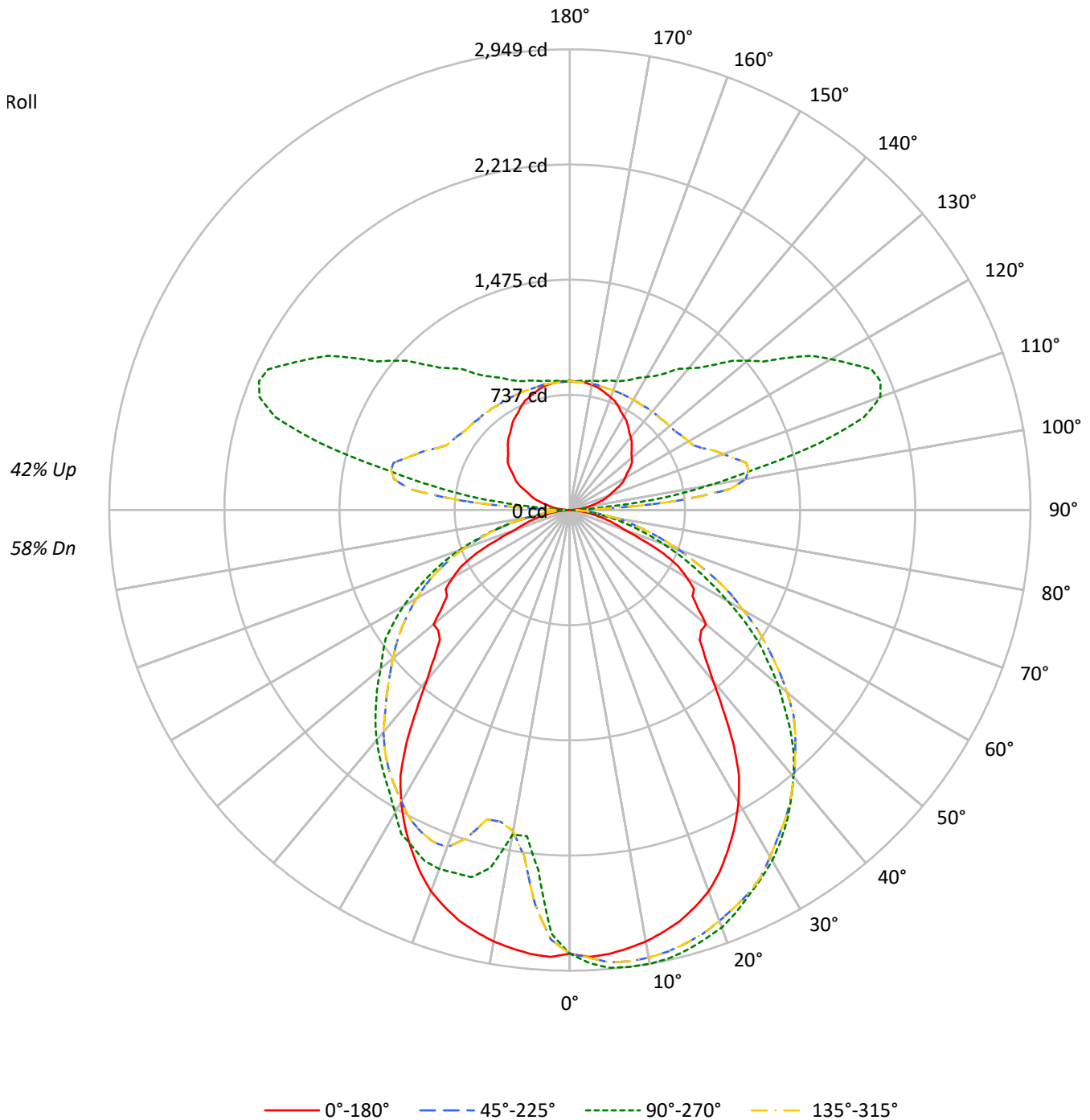
Test Method: LM-79-2019  
Report Number: P934354  
REPORT IS A COMBINATION OF REPORTS P933693 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12711.5 lumens  
Efficiency: N/A  
Efficacy: 116.4 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	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°	8782	8782	8782	8782
5°	8851	8865	8851	6970
10°	8794	8732	8794	6243
15°	8702	8543	8702	7133
20°	8524	8319	8524	7148
25°	8154	7992	8154	6997
30°	7676	7720	7676	6664
35°	6847	7377	6847	6299
40°	5708	6973	5708	6022
45°	5103	6500	5103	5705
50°	5426	5936	5426	5386
55°	5110	5328	5110	5202
60°	5274	4525	5274	4765
65°	4789	3740	4789	4181
70°	3324	2981	3324	3505
75°	2927	2204	2927	2639
80°	2376	1457	2376	1586
85°	1393	771	1393	656

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7817 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.3	2.0
10°-20°	727.6	5.7
20°-30°	1124.8	8.8
30°-40°	1342.8	10.6
40°-50°	1350.6	10.6
50°-60°	1175.2	9.2
60°-70°	833.2	6.6
70°-80°	440.8	3.5
80°-90°	112.9	0.9
90°-100°	402.1	3.2
100°-110°	1057.1	8.3
110°-120°	1096.1	8.6
120°-130°	879.2	6.9
130°-140°	689.9	5.4
140°-150°	529.5	4.2
150°-160°	381.3	3.0
160°-170°	233.3	1.8
170°-180°	78.8	0.6
0°-30°	2108.7	16.6
0°-40°	3451.5	27.2
0°-60°	5977.3	47.0
0°-90°	7364.3	57.9
90°-120°	2555.2	20.1
90°-150°	4653.8	36.6
90°-180°	5347.0	42.1
0°-180°	12711.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2839	2839	2839	2839	2839	
5°	2853	2941	2853	2313	2853	271
15°	2724	2914	2724	2434	2724	766
25°	2399	2718	2399	2380	2399	1101
35°	1824	2426	1824	2071	1824	1128
45°	1176	1998	1176	1754	1176	942
55°	959	1475	959	1440	959	881
65°	666	889	666	994	666	637
75°	252	422	252	505	252	265
85°	43	107	43	91	43	58
90°	6	21	6	21	6	6
95°	53	243	53	243	53	59
105°	190	1655	190	1655	190	202
115°	338	2131	338	2131	338	334
125°	471	1697	471	1697	471	418
135°	561	1317	561	1317	561	434
145°	650	1068	650	1068	650	408
155°	735	920	735	920	735	338
165°	793	857	793	857	793	224
175°	825	830	825	830	825	78
180°	825	825	825	825	825	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2863.3	2863.3	2879.4	2884.8	2884.8	2876.7	2868.7	2876.7	2900.9	2909.0	2906.3
5°	2852.6	2874.0	2903.6	2909.0	2914.3	2911.6	2906.3	2911.6	2938.5	2943.9	2946.6
7.5°	2831.1	2871.4	2909.0	2917.0	2925.1	2917.0	2914.3	2919.7	2946.6	2951.9	2951.9
10°	2804.2	2860.6	2903.6	2909.0	2917.0	2909.0	2909.0	2919.7	2946.6	2951.9	2954.6
12.5°	2766.6	2844.5	2884.8	2890.2	2900.9	2898.2	2895.5	2906.3	2933.1	2938.5	2938.5
15°	2723.6	2815.0	2852.6	2857.9	2876.7	2871.4	2871.4	2882.1	2911.6	2919.7	2917.0
17.5°	2664.5	2777.3	2820.3	2828.4	2841.8	2839.1	2841.8	2852.6	2879.4	2884.8	2887.5
20°	2597.4	2726.3	2777.3	2785.4	2798.8	2798.8	2798.8	2812.3	2839.1	2849.9	2849.9
22.5°	2506.1	2672.6	2726.3	2731.7	2747.8	2747.8	2753.2	2772.0	2796.1	2798.8	2798.8
25°	2398.6	2613.5	2659.2	2675.3	2691.4	2699.5	2707.5	2718.3	2726.3	2723.6	2726.3
27.5°	2285.7	2538.3	2597.4	2608.1	2629.6	2637.7	2648.4	2651.1	2653.8	2661.9	2656.5
30°	2159.5	2433.5	2522.2	2532.9	2567.8	2573.2	2562.5	2567.8	2581.3	2586.6	2592.0
32.5°	2017.1	2277.7	2444.3	2468.5	2500.7	2484.6	2481.9	2490.0	2511.4	2511.4	2516.8
35°	1823.8	2156.8	2371.8	2393.3	2417.4	2398.6	2409.4	2412.1	2425.5	2433.5	2430.9
37.5°	1611.6	2052.1	2296.5	2312.6	2331.4	2307.2	2323.3	2331.4	2342.1	2336.8	2336.8
40°	1423.5	1888.2	2207.8	2218.6	2234.7	2215.9	2232.0	2237.4	2242.8	2237.4	2234.7
42.5°	1283.9	1708.3	2113.8	2127.3	2116.5	2129.9	2135.3	2146.1	2138.0	2127.3	2127.3
45°	1176.4	1659.9	2011.8	2027.9	2011.8	2033.3	2041.3	2041.3	2017.1	2011.8	2009.1
47.5°	1141.5	1563.2	1909.7	1909.7	1901.6	1928.5	1941.9	1923.1	1899.0	1890.9	1890.9
50°	1138.8	1455.8	1770.0	1759.3	1796.9	1829.1	1815.7	1796.9	1778.1	1748.5	1748.5
52.5°	1034.1	1324.2	1590.1	1630.4	1689.5	1708.3	1686.8	1668.0	1635.7	1622.3	1611.6
55°	958.9	1187.2	1426.2	1506.8	1568.6	1592.8	1552.5	1533.7	1485.3	1477.3	1471.9
57.5°	942.8	988.4	1275.8	1377.9	1453.1	1450.4	1426.2	1391.3	1351.0	1343.0	1340.3
60°	864.9	714.5	1114.7	1235.5	1313.4	1305.4	1283.9	1251.6	1214.0	1208.7	1203.3
62.5°	784.3	518.4	932.0	1069.0	1179.1	1176.4	1157.6	1109.3	1082.4	1069.0	1058.3
65°	666.1	435.1	663.4	889.0	1047.5	1052.9	1012.6	977.7	948.1	932.0	929.3
67.5°	507.6	354.5	448.6	741.3	921.3	915.9	864.9	848.8	811.2	803.1	787.0
70°	376.0	236.4	311.6	601.6	797.7	784.3	744.0	725.2	690.3	671.5	660.7
72.5°	311.6	190.7	228.3	467.4	671.5	655.4	620.5	599.0	569.4	553.3	542.6
75°	252.5	201.4	174.6	346.5	545.2	534.5	502.3	480.8	456.6	435.1	437.8
77.5°	185.3	188.0	139.7	255.2	432.4	416.3	397.5	370.7	359.9	338.4	338.4
80°	139.7	147.7	104.8	174.6	311.6	311.6	295.5	276.7	257.8	247.1	247.1
82.5°	94.0	94.0	77.9	110.1	212.2	204.1	193.4	188.0	177.3	171.9	171.9
85°	43.0	53.7	48.3	67.1	115.5	120.9	120.9	115.5	112.8	107.4	110.1
87.5°	13.4	24.2	29.5	37.6	59.1	61.8	64.5	64.5	64.5	67.1	67.1
90°	5.6	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.0	21.0	21.0
92.5°	22.1	59.7	97.4	106.8	150.1	208.0	236.9	207.6	149.1	105.2	101.0
95°	53.2	122.0	191.0	208.2	369.6	584.9	692.5	617.9	468.9	357.1	344.3
97.5°	91.9	152.7	213.4	228.7	497.9	856.8	1036.3	989.2	895.0	824.3	800.2
100°	121.8	176.9	232.0	245.8	544.5	942.9	1142.1	1145.5	1152.4	1157.5	1128.8
102.5°	147.3	198.7	250.1	263.0	565.9	970.0	1172.0	1231.9	1352.0	1442.1	1417.5
105°	190.4	233.9	277.5	288.4	581.8	973.0	1168.7	1303.2	1572.3	1774.2	1761.0
107.5°	234.8	275.3	316.0	326.1	584.8	929.8	1102.2	1290.0	1665.5	1947.0	1950.3
110°	264.7	301.3	338.0	347.1	580.3	891.4	1046.9	1256.7	1676.5	1991.3	2005.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	293.9	328.8	363.8	372.5	580.5	857.8	996.5	1211.3	1640.8	1963.1	1984.2
115°	338.2	370.5	402.7	410.8	585.9	819.4	936.1	1143.0	1556.9	1867.3	1896.6
117.5°	381.9	411.2	440.5	447.8	596.7	795.3	894.6	1081.4	1454.8	1734.9	1767.4
120°	407.5	435.0	462.5	469.4	605.6	787.2	878.0	1048.7	1389.9	1645.9	1677.5
122.5°	432.3	460.2	487.9	494.9	618.4	783.0	865.2	1018.9	1326.2	1556.7	1587.8
125°	470.6	495.9	521.3	527.6	635.6	779.5	851.4	982.0	1243.0	1438.8	1467.5
127.5°	501.6	527.2	552.8	559.1	652.7	777.4	839.8	951.9	1176.0	1344.1	1368.4
130°	518.2	545.8	573.3	580.2	665.2	778.7	835.4	935.2	1134.7	1284.3	1306.7
132.5°	535.3	562.9	590.5	597.4	675.4	779.5	831.5	920.8	1099.4	1233.4	1253.4
135°	560.8	585.9	611.0	617.2	686.4	778.7	824.9	899.7	1049.3	1161.5	1178.8
137.5°	586.8	611.7	636.6	642.7	703.1	783.6	823.8	887.0	1013.5	1108.3	1122.5
140°	608.4	631.3	654.1	659.8	713.2	784.3	819.8	874.5	983.8	1065.7	1078.9
142.5°	625.0	646.1	667.4	672.6	721.7	787.2	819.8	867.8	963.8	1035.8	1047.2
145°	650.4	668.9	687.3	692.0	732.8	787.2	814.4	853.6	932.1	990.9	999.5
147.5°	676.0	693.9	711.9	716.3	749.0	792.6	814.4	845.3	907.0	953.3	960.5
150°	692.5	708.7	725.0	729.1	757.5	795.4	814.4	840.4	892.5	931.7	937.5
152.5°	709.7	722.0	734.3	737.4	763.1	797.3	814.4	836.7	881.2	914.6	918.9
155°	735.1	744.3	753.4	755.6	775.3	801.3	814.4	832.1	867.5	894.1	896.9
157.5°	754.0	762.9	771.7	773.9	787.4	805.4	814.4	828.2	855.6	876.3	878.4
160°	766.7	773.6	780.5	782.2	793.0	807.2	814.4	826.2	849.7	867.5	868.6
162.5°	779.5	784.7	789.8	791.1	798.9	809.2	814.4	824.3	844.2	859.1	860.2
165°	793.3	798.0	802.6	803.8	807.3	812.0	814.4	821.5	835.8	846.4	847.6
167.5°	806.0	808.2	810.4	811.0	813.9	817.9	819.8	824.5	833.9	840.9	841.4
170°	814.4	816.5	818.8	819.3	819.5	819.7	819.8	824.5	833.9	840.9	840.9
172.5°	818.8	819.2	819.7	819.8	819.8	819.8	819.8	823.5	830.9	836.5	836.0
175°	824.9	824.9	824.9	824.9	823.1	820.9	819.8	822.2	826.9	830.4	830.4
177.5°	824.9	824.9	824.9	824.9	823.6	821.9	821.0	822.9	826.6	829.3	828.8
180°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2911.6	2903.6	2911.6	2906.3	2909.0	2900.9	2876.7	2868.7	2876.7	2884.8	2884.8
5°	2946.6	2941.2	2946.6	2946.6	2943.9	2938.5	2911.6	2906.3	2911.6	2914.3	2909.0
7.5°	2957.3	2949.2	2957.3	2951.9	2951.9	2946.6	2919.7	2914.3	2917.0	2925.1	2917.0
10°	2957.3	2949.2	2957.3	2954.6	2951.9	2946.6	2919.7	2909.0	2909.0	2917.0	2909.0
12.5°	2943.9	2938.5	2943.9	2938.5	2938.5	2933.1	2906.3	2895.5	2898.2	2900.9	2890.2
15°	2922.4	2914.3	2922.4	2917.0	2919.7	2911.6	2882.1	2871.4	2871.4	2876.7	2857.9
17.5°	2890.2	2879.4	2890.2	2887.5	2884.8	2879.4	2852.6	2841.8	2839.1	2841.8	2828.4
20°	2852.6	2844.5	2852.6	2849.9	2849.9	2839.1	2812.3	2798.8	2798.8	2798.8	2785.4
22.5°	2793.5	2785.4	2793.5	2798.8	2798.8	2796.1	2772.0	2753.2	2747.8	2747.8	2731.7
25°	2726.3	2718.3	2726.3	2726.3	2723.6	2726.3	2718.3	2707.5	2699.5	2691.4	2675.3
27.5°	2661.9	2656.5	2661.9	2656.5	2661.9	2653.8	2651.1	2648.4	2637.7	2629.6	2608.1
30°	2597.4	2592.0	2597.4	2592.0	2586.6	2581.3	2567.8	2562.5	2573.2	2567.8	2532.9
32.5°	2516.8	2511.4	2516.8	2516.8	2511.4	2511.4	2490.0	2481.9	2484.6	2500.7	2468.5
35°	2433.5	2425.5	2433.5	2430.9	2433.5	2425.5	2412.1	2409.4	2398.6	2417.4	2393.3
37.5°	2336.8	2328.7	2336.8	2336.8	2336.8	2342.1	2331.4	2323.3	2307.2	2331.4	2312.6
40°	2237.4	2226.6	2237.4	2234.7	2237.4	2242.8	2237.4	2232.0	2215.9	2234.7	2218.6
42.5°	2124.6	2121.9	2124.6	2127.3	2127.3	2138.0	2146.1	2135.3	2129.9	2116.5	2127.3
45°	2003.7	1998.3	2003.7	2009.1	2011.8	2017.1	2041.3	2041.3	2033.3	2011.8	2027.9
47.5°	1874.8	1861.4	1874.8	1890.9	1890.9	1899.0	1923.1	1941.9	1928.5	1901.6	1909.7
50°	1737.8	1740.5	1737.8	1748.5	1748.5	1778.1	1796.9	1815.7	1829.1	1796.9	1759.3
52.5°	1603.5	1600.8	1603.5	1611.6	1622.3	1635.7	1668.0	1686.8	1708.3	1689.5	1630.4
55°	1469.2	1474.6	1469.2	1471.9	1477.3	1485.3	1533.7	1552.5	1592.8	1568.6	1506.8
57.5°	1334.9	1326.9	1334.9	1340.3	1343.0	1351.0	1391.3	1426.2	1450.4	1453.1	1377.9
60°	1179.1	1168.4	1179.1	1203.3	1208.7	1214.0	1251.6	1283.9	1305.4	1313.4	1235.5
62.5°	1042.1	1023.3	1042.1	1058.3	1069.0	1082.4	1109.3	1157.6	1176.4	1179.1	1069.0
65°	897.1	889.0	897.1	929.3	932.0	948.1	977.7	1012.6	1052.9	1047.5	889.0
67.5°	765.5	765.5	765.5	787.0	803.1	811.2	848.8	864.9	915.9	921.3	741.3
70°	644.6	641.9	644.6	660.7	671.5	690.3	725.2	744.0	784.3	797.7	601.6
72.5°	529.1	526.4	529.1	542.6	553.3	569.4	599.0	620.5	655.4	671.5	467.4
75°	427.1	421.7	427.1	437.8	435.1	456.6	480.8	502.3	534.5	545.2	346.5
77.5°	327.7	327.7	327.7	338.4	338.4	359.9	370.7	397.5	416.3	432.4	255.2
80°	244.4	241.7	244.4	247.1	247.1	257.8	276.7	295.5	311.6	311.6	174.6
82.5°	171.9	166.5	171.9	171.9	171.9	177.3	188.0	193.4	204.1	212.2	110.1
85°	107.4	107.4	107.4	110.1	107.4	112.8	115.5	120.9	120.9	115.5	67.1
87.5°	69.8	67.1	69.8	67.1	67.1	64.5	64.5	64.5	61.8	59.1	37.6
90°	21.0	21.0	21.0	21.0	21.0	28.0	37.4	42.1	36.2	24.4	15.5
92.5°	84.2	67.5	84.2	101.0	105.2	149.1	207.6	236.9	208.0	150.1	106.8
95°	293.7	243.0	293.7	344.3	357.1	468.9	617.9	692.5	584.9	369.6	208.2
97.5°	703.7	607.3	703.7	800.2	824.3	895.0	989.2	1036.3	856.8	497.9	228.7
100°	1013.9	899.1	1013.9	1128.8	1157.5	1152.4	1145.5	1142.1	942.9	544.5	245.8
102.5°	1319.1	1220.7	1319.1	1417.5	1442.1	1352.0	1231.9	1172.0	970.0	565.9	263.0
105°	1708.2	1655.3	1708.2	1761.0	1774.2	1572.3	1303.2	1168.7	973.0	581.8	288.4
107.5°	1963.0	1975.8	1963.0	1950.3	1947.0	1665.5	1290.0	1102.2	929.8	584.8	326.1
110°	2060.1	2115.3	2060.1	2005.1	1991.3	1676.5	1256.7	1046.9	891.4	580.3	347.1





TEST NUMBER: P934354

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2068.9	2153.5	2068.9	1984.2	1963.1	1640.8	1211.3	996.5	857.8	580.5	372.5
115°	2014.0	2131.4	2014.0	1896.6	1867.3	1556.9	1143.0	936.1	819.4	585.9	410.8
117.5°	1897.6	2027.8	1897.6	1767.4	1734.9	1454.8	1081.4	894.6	795.3	596.7	447.8
120°	1804.0	1930.4	1804.0	1677.5	1645.9	1389.9	1048.7	878.0	787.2	605.6	469.4
122.5°	1712.6	1837.4	1712.6	1587.8	1556.7	1326.2	1018.9	865.2	783.0	618.4	494.9
125°	1582.4	1697.3	1582.4	1467.5	1438.8	1243.0	982.0	851.4	779.5	635.6	527.6
127.5°	1465.3	1562.2	1465.3	1368.4	1344.1	1176.0	951.9	839.8	777.4	652.7	559.1
130°	1396.3	1485.9	1396.3	1306.7	1284.3	1134.7	935.2	835.4	778.7	665.2	580.2
132.5°	1333.7	1413.9	1333.7	1253.4	1233.4	1099.4	920.8	831.5	779.5	675.4	597.4
135°	1247.9	1317.0	1247.9	1178.8	1161.5	1049.3	899.7	824.9	778.7	686.4	617.2
137.5°	1179.0	1235.6	1179.0	1122.5	1108.3	1013.5	887.0	823.8	783.6	703.1	642.7
140°	1131.8	1184.7	1131.8	1078.9	1065.7	983.8	874.5	819.8	784.3	713.2	659.8
142.5°	1092.7	1138.2	1092.7	1047.2	1035.8	963.8	867.8	819.8	787.2	721.7	672.6
145°	1034.0	1068.5	1034.0	999.5	990.9	932.1	853.6	814.4	787.2	732.8	692.0
147.5°	989.0	1017.5	989.0	960.5	953.3	907.0	845.3	814.4	792.6	749.0	716.3
150°	960.6	983.8	960.6	937.5	931.7	892.5	840.4	814.4	795.4	757.5	729.1
152.5°	936.4	953.9	936.4	918.9	914.6	881.2	836.7	814.4	797.3	763.1	737.4
155°	908.6	920.1	908.6	896.9	894.1	867.5	832.1	814.4	801.3	775.3	755.6
157.5°	886.4	894.6	886.4	878.4	876.3	855.6	828.2	814.4	805.4	787.4	773.9
160°	873.4	878.0	873.4	868.6	867.5	849.7	826.2	814.4	807.2	793.0	782.2
162.5°	864.7	869.2	864.7	860.2	859.1	844.2	824.3	814.4	809.2	798.9	791.1
165°	852.3	857.0	852.3	847.6	846.4	835.8	821.5	814.4	812.0	807.3	803.8
167.5°	843.4	845.4	843.4	841.4	840.9	833.9	824.5	819.8	817.9	813.9	811.0
170°	840.9	840.9	840.9	840.9	840.9	833.9	824.5	819.8	819.7	819.5	819.3
172.5°	834.3	832.6	834.3	836.0	836.5	830.9	823.5	819.8	819.8	819.8	819.8
175°	830.4	830.4	830.4	830.4	830.4	826.9	822.2	819.8	820.9	823.1	824.9
177.5°	826.8	824.9	826.8	828.8	829.3	826.6	822.9	821.0	821.9	823.6	824.9
180°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9



TEST NUMBER: P934354

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2879.4	2863.3	2863.3	2836.4	2825.7	2817.6	2804.2	2763.9	2753.2	2742.4	2758.5
5°	2903.6	2874.0	2852.6	2804.2	2763.9	2747.8	2696.8	2600.1	2535.6	2487.3	2460.4
7.5°	2909.0	2871.4	2831.1	2755.9	2659.2	2616.2	2460.4	2283.0	2234.7	2191.7	2164.9
10°	2903.6	2860.6	2804.2	2691.4	2463.1	2387.9	2232.0	2116.5	2087.0	2078.9	2087.0
12.5°	2884.8	2844.5	2766.6	2578.6	2258.9	2207.8	2116.5	2049.4	2044.0	2057.4	2129.9
15°	2852.6	2815.0	2723.6	2428.2	2146.1	2108.5	2044.0	2019.8	2049.4	2143.4	2360.9
17.5°	2820.3	2777.3	2664.5	2280.4	2060.1	2033.3	1987.6	2035.9	2202.5	2328.7	2401.3
20°	2777.3	2726.3	2597.4	2172.9	1998.3	1974.2	1952.7	2170.2	2296.5	2342.1	2382.5
22.5°	2726.3	2672.6	2506.1	2097.7	1933.9	1915.1	1928.5	2245.4	2296.5	2328.7	2363.6
25°	2659.2	2613.5	2398.6	2038.6	1882.8	1861.4	1912.4	2237.4	2266.9	2275.0	2344.8
27.5°	2597.4	2538.3	2285.7	1984.9	1821.1	1813.0	1925.8	2202.5	2224.0	2232.0	2307.2
30°	2522.2	2433.5	2159.5	1928.5	1756.6	1753.9	1928.5	2159.5	2154.1	2175.6	2250.8
32.5°	2444.3	2277.7	2017.1	1858.7	1694.8	1692.1	1909.7	2095.0	2089.7	2119.2	2175.6
35°	2371.8	2156.8	1823.8	1778.1	1616.9	1619.6	1864.0	2019.8	2022.5	2049.4	2084.3
37.5°	2296.5	2052.1	1611.6	1689.5	1541.7	1541.7	1802.3	1950.0	1944.6	1952.7	2001.0
40°	2207.8	1888.2	1423.5	1574.0	1471.9	1463.8	1727.1	1874.8	1856.0	1853.3	1920.4
42.5°	2113.8	1708.3	1283.9	1420.9	1391.3	1380.6	1635.7	1783.5	1748.5	1756.6	1842.6
45°	2011.8	1659.9	1176.4	1200.6	1308.1	1300.0	1536.4	1678.7	1654.5	1676.0	1764.7
47.5°	1909.7	1563.2	1141.5	996.5	1219.4	1216.7	1426.2	1576.6	1563.2	1584.7	1678.7
50°	1770.0	1455.8	1138.8	854.1	1120.0	1130.8	1294.6	1477.3	1477.3	1496.1	1595.4
52.5°	1590.1	1324.2	1034.1	773.5	1004.5	1036.8	1179.1	1391.3	1396.7	1415.5	1504.1
55°	1426.2	1187.2	958.9	711.8	867.6	937.4	1066.3	1302.7	1313.4	1332.2	1412.8
57.5°	1275.8	988.4	942.8	639.3	741.3	808.5	966.9	1216.7	1222.1	1238.2	1316.1
60°	1114.7	714.5	864.9	561.4	631.2	682.2	875.6	1114.7	1133.5	1144.2	1211.4
62.5°	932.0	518.4	784.3	507.6	577.5	588.2	800.4	1018.0	1042.1	1050.2	1090.5
65°	663.4	435.1	666.1	462.0	521.1	523.8	719.8	918.6	940.1	953.5	983.1
67.5°	448.6	354.5	507.6	419.0	478.1	480.8	641.9	803.1	832.6	843.4	862.2
70°	311.6	236.4	376.0	373.3	429.7	435.1	558.7	698.3	725.2	733.3	744.0
72.5°	228.3	190.7	311.6	335.7	378.7	384.1	472.7	580.2	607.0	615.1	620.5
75°	174.6	201.4	252.5	292.8	322.3	325.0	386.8	472.7	491.5	496.9	499.6
77.5°	139.7	188.0	185.3	236.4	263.2	257.8	303.5	365.3	381.4	381.4	381.4
80°	104.8	147.7	139.7	169.2	193.4	188.0	217.6	260.5	265.9	271.3	268.6
82.5°	77.9	94.0	94.0	107.4	128.9	123.6	145.0	169.2	169.2	169.2	174.6
85°	48.3	53.7	43.0	56.4	72.5	69.8	80.6	91.3	94.0	94.0	88.6
87.5°	29.5	24.2	13.4	21.5	32.2	32.2	37.6	40.3	37.6	37.6	37.6
90°	14.4	9.9	5.6	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.0
92.5°	97.4	59.7	22.1	59.7	97.4	106.8	150.1	208.0	236.9	207.6	149.1
95°	191.0	122.0	53.2	122.0	191.0	208.2	369.6	584.9	692.5	617.9	468.9
97.5°	213.4	152.7	91.9	152.7	213.4	228.7	497.9	856.8	1036.3	989.2	895.0
100°	232.0	176.9	121.8	176.9	232.0	245.8	544.5	942.9	1142.1	1145.5	1152.4
102.5°	250.1	198.7	147.3	198.7	250.1	263.0	565.9	970.0	1172.0	1231.9	1352.0
105°	277.5	233.9	190.4	233.9	277.5	288.4	581.8	973.0	1168.7	1303.2	1572.3
107.5°	316.0	275.3	234.8	275.3	316.0	326.1	584.8	929.8	1102.2	1290.0	1665.5
110°	338.0	301.3	264.7	301.3	338.0	347.1	580.3	891.4	1046.9	1256.7	1676.5



TEST NUMBER: P934354

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	363.8	328.8	293.9	328.8	363.8	372.5	580.5	857.8	996.5	1211.3	1640.8
115°	402.7	370.5	338.2	370.5	402.7	410.8	585.9	819.4	936.1	1143.0	1556.9
117.5°	440.5	411.2	381.9	411.2	440.5	447.8	596.7	795.3	894.6	1081.4	1454.8
120°	462.5	435.0	407.5	435.0	462.5	469.4	605.6	787.2	878.0	1048.7	1389.9
122.5°	487.9	460.2	432.3	460.2	487.9	494.9	618.4	783.0	865.2	1018.9	1326.2
125°	521.3	495.9	470.6	495.9	521.3	527.6	635.6	779.5	851.4	982.0	1243.0
127.5°	552.8	527.2	501.6	527.2	552.8	559.1	652.7	777.4	839.8	951.9	1176.0
130°	573.3	545.8	518.2	545.8	573.3	580.2	665.2	778.7	835.4	935.2	1134.7
132.5°	590.5	562.9	535.3	562.9	590.5	597.4	675.4	779.5	831.5	920.8	1099.4
135°	611.0	585.9	560.8	585.9	611.0	617.2	686.4	778.7	824.9	899.7	1049.3
137.5°	636.6	611.7	586.8	611.7	636.6	642.7	703.1	783.6	823.8	887.0	1013.5
140°	654.1	631.3	608.4	631.3	654.1	659.8	713.2	784.3	819.8	874.5	983.8
142.5°	667.4	646.1	625.0	646.1	667.4	672.6	721.7	787.2	819.8	867.8	963.8
145°	687.3	668.9	650.4	668.9	687.3	692.0	732.8	787.2	814.4	853.6	932.1
147.5°	711.9	693.9	676.0	693.9	711.9	716.3	749.0	792.6	814.4	845.3	907.0
150°	725.0	708.7	692.5	708.7	725.0	729.1	757.5	795.4	814.4	840.4	892.5
152.5°	734.3	722.0	709.7	722.0	734.3	737.4	763.1	797.3	814.4	836.7	881.2
155°	753.4	744.3	735.1	744.3	753.4	755.6	775.3	801.3	814.4	832.1	867.5
157.5°	771.7	762.9	754.0	762.9	771.7	773.9	787.4	805.4	814.4	828.2	855.6
160°	780.5	773.6	766.7	773.6	780.5	782.2	793.0	807.2	814.4	826.2	849.7
162.5°	789.8	784.7	779.5	784.7	789.8	791.1	798.9	809.2	814.4	824.3	844.2
165°	802.6	798.0	793.3	798.0	802.6	803.8	807.3	812.0	814.4	821.5	835.8
167.5°	810.4	808.2	806.0	808.2	810.4	811.0	813.9	817.9	819.8	824.5	833.9
170°	818.8	816.5	814.4	816.5	818.8	819.3	819.5	819.7	819.8	824.5	833.9
172.5°	819.7	819.2	818.8	819.2	819.7	819.8	819.8	819.8	819.8	823.5	830.9
175°	824.9	824.9	824.9	824.9	824.9	824.9	823.1	820.9	819.8	822.2	826.9
177.5°	824.9	824.9	824.9	824.9	824.9	824.9	823.6	821.9	821.0	822.9	826.6
180°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9



TEST NUMBER: P934354

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2739.7	2731.7	2742.4	2712.9	2742.4	2731.7	2739.7	2758.5	2742.4	2753.2	2763.9
5°	2404.0	2390.6	2347.5	2312.6	2347.5	2390.6	2404.0	2460.4	2487.3	2535.6	2600.1
7.5°	2148.7	2138.0	2127.3	2105.8	2127.3	2138.0	2148.7	2164.9	2191.7	2234.7	2283.0
10°	2092.3	2095.0	2111.1	2108.5	2111.1	2095.0	2092.3	2087.0	2078.9	2087.0	2116.5
12.5°	2237.4	2261.6	2350.2	2344.8	2350.2	2261.6	2237.4	2129.9	2057.4	2044.0	2049.4
15°	2404.0	2412.1	2430.9	2433.5	2430.9	2412.1	2404.0	2360.9	2143.4	2049.4	2019.8
17.5°	2420.1	2422.8	2436.2	2436.2	2436.2	2422.8	2420.1	2401.3	2328.7	2202.5	2035.9
20°	2406.7	2412.1	2438.9	2444.3	2438.9	2412.1	2406.7	2382.5	2342.1	2296.5	2170.2
22.5°	2401.3	2412.1	2433.5	2430.9	2433.5	2412.1	2401.3	2363.6	2328.7	2296.5	2245.4
25°	2374.5	2374.5	2377.1	2379.8	2377.1	2374.5	2374.5	2344.8	2275.0	2266.9	2237.4
27.5°	2318.0	2323.3	2339.5	2336.8	2339.5	2323.3	2318.0	2307.2	2232.0	2224.0	2202.5
30°	2266.9	2261.6	2248.1	2237.4	2248.1	2261.6	2266.9	2250.8	2175.6	2154.1	2159.5
32.5°	2181.0	2167.6	2154.1	2146.1	2154.1	2167.6	2181.0	2175.6	2119.2	2089.7	2095.0
35°	2078.9	2081.6	2078.9	2070.9	2078.9	2081.6	2078.9	2084.3	2049.4	2022.5	2019.8
37.5°	2006.4	2011.8	2009.1	1998.3	2009.1	2011.8	2006.4	2001.0	1952.7	1944.6	1950.0
40°	1931.2	1933.9	1931.2	1923.1	1931.2	1933.9	1931.2	1920.4	1853.3	1856.0	1874.8
42.5°	1858.7	1856.0	1847.9	1842.6	1847.9	1856.0	1858.7	1842.6	1756.6	1748.5	1783.5
45°	1775.4	1778.1	1762.0	1753.9	1762.0	1778.1	1775.4	1764.7	1676.0	1654.5	1678.7
47.5°	1692.1	1692.1	1678.7	1670.7	1678.7	1692.1	1692.1	1678.7	1584.7	1563.2	1576.6
50°	1603.5	1600.8	1582.0	1579.3	1582.0	1600.8	1603.5	1595.4	1496.1	1477.3	1477.3
52.5°	1501.4	1501.4	1504.1	1509.5	1504.1	1501.4	1501.4	1504.1	1415.5	1396.7	1391.3
55°	1412.8	1415.5	1434.3	1439.7	1434.3	1415.5	1412.8	1412.8	1332.2	1313.4	1302.7
57.5°	1321.5	1321.5	1334.9	1334.9	1334.9	1321.5	1321.5	1316.1	1238.2	1222.1	1216.7
60°	1216.7	1222.1	1232.8	1230.2	1232.8	1222.1	1216.7	1211.4	1144.2	1133.5	1114.7
62.5°	1106.6	1112.0	1114.7	1109.3	1114.7	1112.0	1106.6	1090.5	1050.2	1042.1	1018.0
65°	991.1	996.5	999.2	993.8	999.2	996.5	991.1	983.1	953.5	940.1	918.6
67.5°	872.9	870.2	867.6	878.3	867.6	870.2	872.9	862.2	843.4	832.6	803.1
70°	752.1	752.1	749.4	754.7	749.4	752.1	752.1	744.0	733.3	725.2	698.3
72.5°	623.1	620.5	631.2	623.1	631.2	620.5	623.1	620.5	615.1	607.0	580.2
75°	496.9	502.3	496.9	505.0	496.9	502.3	496.9	499.6	496.9	491.5	472.7
77.5°	378.7	384.1	378.7	378.7	378.7	384.1	378.7	381.4	381.4	381.4	365.3
80°	268.6	265.9	265.9	263.2	265.9	265.9	268.6	268.6	271.3	265.9	260.5
82.5°	171.9	169.2	169.2	174.6	169.2	169.2	171.9	174.6	169.2	169.2	169.2
85°	94.0	96.7	91.3	91.3	91.3	96.7	94.0	88.6	94.0	94.0	91.3
87.5°	34.9	32.2	32.2	32.2	32.2	32.2	34.9	37.6	37.6	37.6	40.3
90°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	28.0	37.4	42.1	36.2
92.5°	105.2	101.0	84.2	67.5	84.2	101.0	105.2	149.1	207.6	236.9	208.0
95°	357.1	344.3	293.7	243.0	293.7	344.3	357.1	468.9	617.9	692.5	584.9
97.5°	824.3	800.2	703.7	607.3	703.7	800.2	824.3	895.0	989.2	1036.3	856.8
100°	1157.5	1128.8	1013.9	899.1	1013.9	1128.8	1157.5	1152.4	1145.5	1142.1	942.9
102.5°	1442.1	1417.5	1319.1	1220.7	1319.1	1417.5	1442.1	1352.0	1231.9	1172.0	970.0
105°	1774.2	1761.0	1708.2	1655.3	1708.2	1761.0	1774.2	1572.3	1303.2	1168.7	973.0
107.5°	1947.0	1950.3	1963.0	1975.8	1963.0	1950.3	1947.0	1665.5	1290.0	1102.2	929.8
110°	1991.3	2005.1	2060.1	2115.3	2060.1	2005.1	1991.3	1676.5	1256.7	1046.9	891.4



TEST NUMBER: P934354

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1963.1	1984.2	2068.9	2153.5	2068.9	1984.2	1963.1	1640.8	1211.3	996.5	857.8
115°	1867.3	1896.6	2014.0	2131.4	2014.0	1896.6	1867.3	1556.9	1143.0	936.1	819.4
117.5°	1734.9	1767.4	1897.6	2027.8	1897.6	1767.4	1734.9	1454.8	1081.4	894.6	795.3
120°	1645.9	1677.5	1804.0	1930.4	1804.0	1677.5	1645.9	1389.9	1048.7	878.0	787.2
122.5°	1556.7	1587.8	1712.6	1837.4	1712.6	1587.8	1556.7	1326.2	1018.9	865.2	783.0
125°	1438.8	1467.5	1582.4	1697.3	1582.4	1467.5	1438.8	1243.0	982.0	851.4	779.5
127.5°	1344.1	1368.4	1465.3	1562.2	1465.3	1368.4	1344.1	1176.0	951.9	839.8	777.4
130°	1284.3	1306.7	1396.3	1485.9	1396.3	1306.7	1284.3	1134.7	935.2	835.4	778.7
132.5°	1233.4	1253.4	1333.7	1413.9	1333.7	1253.4	1233.4	1099.4	920.8	831.5	779.5
135°	1161.5	1178.8	1247.9	1317.0	1247.9	1178.8	1161.5	1049.3	899.7	824.9	778.7
137.5°	1108.3	1122.5	1179.0	1235.6	1179.0	1122.5	1108.3	1013.5	887.0	823.8	783.6
140°	1065.7	1078.9	1131.8	1184.7	1131.8	1078.9	1065.7	983.8	874.5	819.8	784.3
142.5°	1035.8	1047.2	1092.7	1138.2	1092.7	1047.2	1035.8	963.8	867.8	819.8	787.2
145°	990.9	999.5	1034.0	1068.5	1034.0	999.5	990.9	932.1	853.6	814.4	787.2
147.5°	953.3	960.5	989.0	1017.5	989.0	960.5	953.3	907.0	845.3	814.4	792.6
150°	931.7	937.5	960.6	983.8	960.6	937.5	931.7	892.5	840.4	814.4	795.4
152.5°	914.6	918.9	936.4	953.9	936.4	918.9	914.6	881.2	836.7	814.4	797.3
155°	894.1	896.9	908.6	920.1	908.6	896.9	894.1	867.5	832.1	814.4	801.3
157.5°	876.3	878.4	886.4	894.6	886.4	878.4	876.3	855.6	828.2	814.4	805.4
160°	867.5	868.6	873.4	878.0	873.4	868.6	867.5	849.7	826.2	814.4	807.2
162.5°	859.1	860.2	864.7	869.2	864.7	860.2	859.1	844.2	824.3	814.4	809.2
165°	846.4	847.6	852.3	857.0	852.3	847.6	846.4	835.8	821.5	814.4	812.0
167.5°	840.9	841.4	843.4	845.4	843.4	841.4	840.9	833.9	824.5	819.8	817.9
170°	840.9	840.9	840.9	840.9	840.9	840.9	840.9	833.9	824.5	819.8	819.7
172.5°	836.5	836.0	834.3	832.6	834.3	836.0	836.5	830.9	823.5	819.8	819.8
175°	830.4	830.4	830.4	830.4	830.4	830.4	830.4	826.9	822.2	819.8	820.9
177.5°	829.3	828.8	826.8	824.9	826.8	828.8	829.3	826.6	822.9	821.0	821.9
180°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9



TEST NUMBER: P934354

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2804.2	2817.6	2825.7	2836.4	2863.3
5°	2696.8	2747.8	2763.9	2804.2	2852.6
7.5°	2460.4	2616.2	2659.2	2755.9	2831.1
10°	2232.0	2387.9	2463.1	2691.4	2804.2
12.5°	2116.5	2207.8	2258.9	2578.6	2766.6
15°	2044.0	2108.5	2146.1	2428.2	2723.6
17.5°	1987.6	2033.3	2060.1	2280.4	2664.5
20°	1952.7	1974.2	1998.3	2172.9	2597.4
22.5°	1928.5	1915.1	1933.9	2097.7	2506.1
25°	1912.4	1861.4	1882.8	2038.6	2398.6
27.5°	1925.8	1813.0	1821.1	1984.9	2285.7
30°	1928.5	1753.9	1756.6	1928.5	2159.5
32.5°	1909.7	1692.1	1694.8	1858.7	2017.1
35°	1864.0	1619.6	1616.9	1778.1	1823.8
37.5°	1802.3	1541.7	1541.7	1689.5	1611.6
40°	1727.1	1463.8	1471.9	1574.0	1423.5
42.5°	1635.7	1380.6	1391.3	1420.9	1283.9
45°	1536.4	1300.0	1308.1	1200.6	1176.4
47.5°	1426.2	1216.7	1219.4	996.5	1141.5
50°	1294.6	1130.8	1120.0	854.1	1138.8
52.5°	1179.1	1036.8	1004.5	773.5	1034.1
55°	1066.3	937.4	867.6	711.8	958.9
57.5°	966.9	808.5	741.3	639.3	942.8
60°	875.6	682.2	631.2	561.4	864.9
62.5°	800.4	588.2	577.5	507.6	784.3
65°	719.8	523.8	521.1	462.0	666.1
67.5°	641.9	480.8	478.1	419.0	507.6
70°	558.7	435.1	429.7	373.3	376.0
72.5°	472.7	384.1	378.7	335.7	311.6
75°	386.8	325.0	322.3	292.8	252.5
77.5°	303.5	257.8	263.2	236.4	185.3
80°	217.6	188.0	193.4	169.2	139.7
82.5°	145.0	123.6	128.9	107.4	94.0
85°	80.6	69.8	72.5	56.4	43.0
87.5°	37.6	32.2	32.2	21.5	13.4
90°	24.4	15.5	14.4	9.9	5.6
92.5°	150.1	106.8	97.4	59.7	22.1
95°	369.6	208.2	191.0	122.0	53.2
97.5°	497.9	228.7	213.4	152.7	91.9
100°	544.5	245.8	232.0	176.9	121.8
102.5°	565.9	263.0	250.1	198.7	147.3
105°	581.8	288.4	277.5	233.9	190.4
107.5°	584.8	326.1	316.0	275.3	234.8
110°	580.3	347.1	338.0	301.3	264.7



TEST NUMBER: P934354

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	580.5	372.5	363.8	328.8	293.9
115°	585.9	410.8	402.7	370.5	338.2
117.5°	596.7	447.8	440.5	411.2	381.9
120°	605.6	469.4	462.5	435.0	407.5
122.5°	618.4	494.9	487.9	460.2	432.3
125°	635.6	527.6	521.3	495.9	470.6
127.5°	652.7	559.1	552.8	527.2	501.6
130°	665.2	580.2	573.3	545.8	518.2
132.5°	675.4	597.4	590.5	562.9	535.3
135°	686.4	617.2	611.0	585.9	560.8
137.5°	703.1	642.7	636.6	611.7	586.8
140°	713.2	659.8	654.1	631.3	608.4
142.5°	721.7	672.6	667.4	646.1	625.0
145°	732.8	692.0	687.3	668.9	650.4
147.5°	749.0	716.3	711.9	693.9	676.0
150°	757.5	729.1	725.0	708.7	692.5
152.5°	763.1	737.4	734.3	722.0	709.7
155°	775.3	755.6	753.4	744.3	735.1
157.5°	787.4	773.9	771.7	762.9	754.0
160°	793.0	782.2	780.5	773.6	766.7
162.5°	798.9	791.1	789.8	784.7	779.5
165°	807.3	803.8	802.6	798.0	793.3
167.5°	813.9	811.0	810.4	808.2	806.0
170°	819.5	819.3	818.8	816.5	814.4
172.5°	819.8	819.8	819.7	819.2	818.8
175°	823.1	824.9	824.9	824.9	824.9
177.5°	823.6	824.9	824.9	824.9	824.9
180°	824.9	824.9	824.9	824.9	824.9



TEST NUMBER: P934354  
 CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-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	13.06	14.00	13.95	14.91	16.06	15.91	16.85	16.80	17.76	18.91
	3H	13.55	14.39	14.44	15.30	16.48	17.27	18.11	18.17	19.03	20.21
	4H	13.74	14.53	14.65	15.46	16.64	17.72	18.52	18.64	19.44	20.63
	6H	13.86	14.59	14.79	15.52	16.72	18.02	18.75	18.94	19.68	20.88
	8H	13.87	14.56	14.80	15.51	16.71	18.10	18.79	19.03	19.74	20.94
	12H	13.84	14.50	14.78	15.44	16.67	18.14	18.81	19.08	19.74	20.97
4H	2H	14.11	14.90	15.03	15.82	17.01	16.33	17.13	17.25	18.05	19.24
	3H	15.14	15.81	16.07	16.76	17.96	17.85	18.51	18.78	19.46	20.67
	4H	15.42	16.03	16.36	16.97	18.20	18.39	18.99	19.33	19.94	21.17
	6H	15.55	16.07	16.51	17.04	18.27	18.76	19.28	19.72	20.25	21.48
	8H	15.56	16.05	16.52	17.01	18.25	18.87	19.36	19.83	20.32	21.57
	12H	15.53	15.97	16.51	16.95	18.20	18.94	19.38	19.91	20.36	21.61
8H	4H	15.89	16.37	16.84	17.34	18.58	18.52	19.00	19.47	19.97	21.21
	6H	16.15	16.55	17.13	17.56	18.80	18.96	19.36	19.94	20.37	21.61
	8H	16.19	16.55	17.18	17.54	18.80	19.12	19.47	20.11	20.47	21.73
	12H	16.18	16.49	17.18	17.48	18.79	19.22	19.54	20.22	20.53	21.83
12H	4H	15.90	16.34	16.87	17.32	18.56	18.48	18.92	19.46	19.90	21.15
	6H	16.21	16.57	17.20	17.56	18.82	18.96	19.32	19.95	20.31	21.57
	8H	16.28	16.60	17.28	17.59	18.89	19.13	19.44	20.12	20.43	21.73