

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: P934447

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

**Test Information**

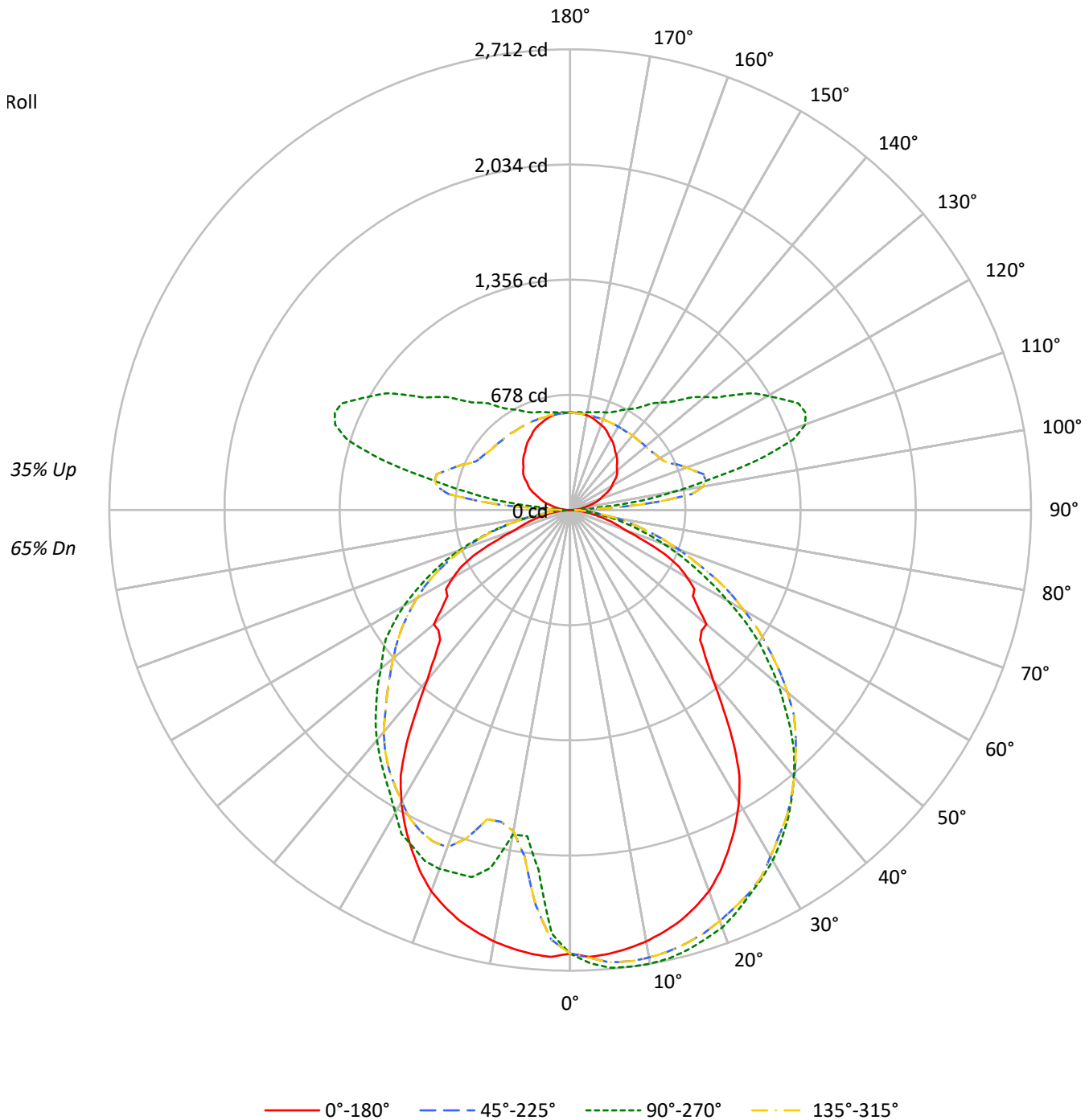
Test Method: LM-79-2019  
Report Number: P934447  
REPORT IS A COMBINATION OF REPORTS P933700 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-8-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10493.0 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: 8' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 90.4  
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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CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-8-5000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

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

	0°	90°	180°	270°
0°	12113	12113	12113	12113
5°	12203	12227	12203	9614
10°	12122	12044	12122	8611
15°	11990	11784	11990	9840
20°	11740	11475	11740	9860
25°	11226	11024	11226	9651
30°	10562	10649	10562	9193
35°	9416	10176	9416	8688
40°	7846	9618	7846	8307
45°	7011	8966	7011	7869
50°	7448	8188	7448	7430
55°	7008	7349	7008	7175
60°	7223	6242	7223	6572
65°	6549	5160	6549	5768
70°	4534	4113	4534	4834
75°	3977	3040	3977	3640
80°	3204	2010	3204	2189
85°	1840	1064	1840	904

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10745 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	2.2
10°-20°	669.1	6.4
20°-30°	1034.3	9.9
30°-40°	1234.8	11.8
40°-50°	1242.0	11.8
50°-60°	1080.7	10.3
60°-70°	766.2	7.3
70°-80°	405.4	3.9
80°-90°	103.1	1.0
90°-100°	279.8	2.7
100°-110°	735.7	7.0
110°-120°	762.9	7.3
120°-130°	611.9	5.8
130°-140°	480.1	4.6
140°-150°	368.5	3.5
150°-160°	265.4	2.5
160°-170°	162.4	1.5
170°-180°	54.9	0.5
0°-30°	1939.1	18.5
0°-40°	3173.9	30.2
0°-60°	5496.6	52.4
0°-90°	6771.3	64.5
90°-120°	1778.5	16.9
90°-150°	3239.0	30.9
90°-180°	3722.0	35.5
0°-180°	10493.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2611	2611	2611	2611	2611	
5°	2623	2705	2623	2127	2623	249
15°	2504	2680	2504	2238	2504	705
25°	2206	2500	2206	2188	2206	1013
35°	1677	2230	1677	1904	1677	1038
45°	1082	1838	1082	1613	1082	867
55°	882	1356	882	1324	882	810
65°	612	818	612	914	612	585
75°	232	388	232	464	232	244
85°	40	99	40	84	40	53
90°	4	15	4	15	4	5
95°	37	169	37	169	37	41
105°	132	1152	132	1152	132	141
115°	236	1483	236	1483	236	233
125°	328	1181	328	1181	328	291
135°	390	917	390	917	390	302
145°	453	744	453	744	453	284
155°	512	640	512	640	512	235
165°	552	596	552	596	552	156
175°	574	578	574	578	574	54
180°	574	574	574	574	574	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2633.0	2633.0	2647.7	2652.7	2652.7	2645.3	2637.9	2645.3	2667.6	2674.9	2672.5
5°	2623.1	2642.8	2670.0	2674.9	2679.9	2677.4	2672.5	2677.4	2702.1	2707.1	2709.5
7.5°	2603.3	2640.4	2674.9	2682.3	2689.8	2682.3	2679.9	2684.8	2709.5	2714.5	2714.5
10°	2578.6	2630.4	2670.0	2674.9	2682.3	2674.9	2674.9	2684.8	2709.5	2714.5	2716.9
12.5°	2544.0	2615.7	2652.7	2657.6	2667.6	2665.0	2662.6	2672.5	2697.2	2702.1	2702.1
15°	2504.5	2588.5	2623.1	2628.0	2645.3	2640.4	2640.4	2650.3	2677.4	2684.8	2682.3
17.5°	2450.1	2553.9	2593.4	2600.8	2613.2	2610.7	2613.2	2623.1	2647.7	2652.7	2655.2
20°	2388.5	2507.0	2553.9	2561.3	2573.7	2573.7	2573.7	2586.1	2610.7	2620.6	2620.6
22.5°	2304.4	2457.6	2507.0	2511.9	2526.7	2526.7	2531.7	2548.9	2571.2	2573.7	2573.7
25°	2205.6	2403.2	2445.2	2460.1	2474.9	2482.3	2489.7	2499.6	2507.0	2504.5	2507.0
27.5°	2101.9	2334.1	2388.5	2398.3	2418.1	2425.5	2435.4	2437.8	2440.3	2447.7	2442.8
30°	1985.8	2237.8	2319.3	2329.2	2361.3	2366.2	2356.3	2361.3	2373.6	2378.5	2383.5
32.5°	1854.9	2094.5	2247.7	2269.8	2299.5	2284.7	2282.2	2289.7	2309.4	2309.4	2314.3
35°	1677.0	1983.4	2180.9	2200.7	2222.9	2205.6	2215.5	2218.0	2230.4	2237.8	2235.3
37.5°	1482.0	1887.0	2111.8	2126.6	2143.9	2121.7	2136.5	2143.9	2153.7	2148.9	2148.9
40°	1309.1	1736.4	2030.3	2040.2	2055.0	2037.7	2052.5	2057.5	2062.4	2057.5	2055.0
42.5°	1180.6	1570.9	1943.8	1956.2	1946.3	1958.7	1963.6	1973.4	1966.1	1956.2	1956.2
45°	1081.8	1526.4	1850.0	1864.8	1850.0	1869.8	1877.2	1877.2	1854.9	1850.0	1847.5
47.5°	1049.8	1437.5	1756.1	1756.1	1748.7	1773.4	1785.8	1768.5	1746.2	1738.8	1738.8
50°	1047.2	1338.7	1627.7	1617.8	1652.4	1682.0	1669.7	1652.4	1635.1	1607.9	1607.9
52.5°	951.0	1217.6	1462.2	1499.3	1553.6	1570.9	1551.1	1533.9	1504.2	1491.9	1482.0
55°	881.8	1091.7	1311.6	1385.6	1442.4	1464.7	1427.6	1410.4	1365.9	1358.5	1353.5
57.5°	866.9	908.9	1173.2	1267.1	1336.3	1333.7	1311.6	1279.4	1242.4	1234.9	1232.5
60°	795.3	657.0	1025.0	1136.1	1207.8	1200.3	1180.6	1151.0	1116.4	1111.5	1106.5
62.5°	721.2	476.7	857.0	983.0	1084.3	1081.8	1064.5	1020.0	995.4	983.0	973.1
65°	612.5	400.1	610.1	817.6	963.3	968.2	931.2	899.1	871.9	857.0	854.6
67.5°	466.8	326.0	412.5	681.7	847.2	842.3	795.3	780.5	745.9	738.5	723.6
70°	345.7	217.3	286.5	553.3	733.6	721.2	684.2	666.9	634.8	617.5	607.6
72.5°	286.5	175.4	209.9	429.8	617.5	602.7	570.5	550.8	523.6	508.8	498.9
75°	232.2	185.3	160.6	318.6	501.4	491.6	461.8	442.1	419.9	400.1	402.6
77.5°	170.4	172.9	128.4	234.6	397.6	382.9	365.6	340.9	331.0	311.3	311.3
80°	128.4	135.8	96.4	160.6	286.5	286.5	271.7	254.4	237.1	227.2	227.2
82.5°	86.5	86.5	71.6	101.2	195.2	187.7	177.9	172.9	163.0	158.1	158.1
85°	39.5	49.4	44.5	61.8	106.2	111.1	111.1	106.2	103.8	98.8	101.2
87.5°	12.3	22.2	27.2	34.6	54.3	56.8	59.3	59.3	59.3	61.8	61.8
90°	3.8	6.9	10.0	10.7	16.9	25.1	29.3	26.0	19.5	14.7	14.7
92.5°	15.4	41.6	67.9	74.4	104.6	144.8	164.9	144.5	103.8	73.2	70.3
95°	37.0	85.0	132.9	144.9	257.2	407.1	482.0	430.2	326.4	248.5	239.8
97.5°	63.9	106.2	148.5	159.1	346.5	596.3	721.3	688.5	622.9	573.7	556.9
100°	84.8	123.1	161.4	171.1	379.0	656.3	794.9	797.3	802.1	805.6	785.6
102.5°	102.5	138.3	174.0	183.0	393.9	675.1	815.7	857.5	941.1	1003.7	986.6
105°	132.5	162.8	193.2	200.8	405.0	677.3	813.4	907.0	1094.4	1234.9	1225.7
107.5°	163.4	191.6	219.8	226.9	407.0	647.1	767.1	897.8	1159.1	1355.1	1357.4
110°	184.1	209.7	235.3	241.6	404.0	620.4	728.6	874.7	1166.8	1385.9	1395.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	204.6	228.9	253.2	259.3	404.1	597.1	693.6	843.0	1142.0	1366.3	1381.0
115°	235.5	257.9	280.3	285.9	407.8	570.4	651.6	795.6	1083.6	1299.6	1320.0
117.5°	265.8	286.2	306.6	311.7	415.4	553.5	622.6	752.6	1012.6	1207.5	1230.2
120°	283.6	302.8	322.0	326.8	421.6	547.9	611.1	729.8	967.3	1145.5	1167.4
122.5°	300.9	320.2	339.6	344.4	430.3	544.9	602.2	709.2	923.1	1083.5	1105.2
125°	327.5	345.1	362.8	367.2	442.3	542.5	592.6	683.5	865.2	1001.4	1021.4
127.5°	349.1	366.9	384.6	389.1	454.3	541.1	584.5	662.5	818.5	935.5	952.4
130°	360.6	379.8	399.0	403.8	463.0	541.9	581.4	650.8	789.7	893.9	909.5
132.5°	372.6	391.7	411.0	415.8	470.1	542.5	578.8	640.9	765.2	858.4	872.4
135°	390.3	407.8	425.2	429.6	477.7	541.9	574.1	626.2	730.3	808.3	820.4
137.5°	408.5	425.8	443.1	447.4	489.3	545.3	573.3	617.4	705.4	771.4	781.2
140°	423.4	439.4	455.3	459.3	496.4	545.9	570.6	608.7	684.7	741.7	750.8
142.5°	435.0	449.7	464.5	468.1	502.3	547.8	570.6	604.0	670.8	720.9	728.9
145°	452.8	465.6	478.5	481.7	510.1	547.9	566.8	594.1	648.8	689.7	695.7
147.5°	470.4	483.0	495.5	498.6	521.3	551.7	566.8	588.3	631.2	663.5	668.4
150°	482.0	493.3	504.6	507.5	527.3	553.6	566.8	584.9	621.3	648.5	652.5
152.5°	494.0	502.6	511.1	513.2	531.1	554.9	566.8	582.3	613.3	636.5	639.6
155°	511.7	518.0	524.4	526.0	539.6	557.7	566.8	579.1	603.7	622.2	624.3
157.5°	524.7	530.9	537.1	538.7	548.0	560.5	566.8	576.3	595.5	609.9	611.3
160°	533.6	538.5	543.3	544.5	551.9	561.9	566.8	575.0	591.4	603.7	604.6
162.5°	542.5	546.1	549.7	550.6	556.1	563.3	566.8	573.7	587.6	598.0	598.8
165°	552.1	555.4	558.6	559.4	561.9	565.1	566.8	571.8	581.7	589.1	590.0
167.5°	561.0	562.5	564.1	564.5	566.5	569.2	570.6	573.9	580.5	585.3	585.7
170°	566.8	568.3	569.9	570.3	570.4	570.5	570.6	573.9	580.5	585.3	585.3
172.5°	569.9	570.3	570.5	570.6	570.6	570.6	570.6	573.3	578.4	582.2	581.9
175°	574.1	574.1	574.1	574.1	573.0	571.4	570.6	572.2	575.5	577.9	577.9
177.5°	574.1	574.1	574.1	574.1	573.2	571.9	571.4	572.7	575.2	577.2	576.8
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2677.4	2670.0	2677.4	2672.5	2674.9	2667.6	2645.3	2637.9	2645.3	2652.7	2652.7
5°	2709.5	2704.6	2709.5	2709.5	2707.1	2702.1	2677.4	2672.5	2677.4	2679.9	2674.9
7.5°	2719.4	2712.0	2719.4	2714.5	2714.5	2709.5	2684.8	2679.9	2682.3	2689.8	2682.3
10°	2719.4	2712.0	2719.4	2716.9	2714.5	2709.5	2684.8	2674.9	2674.9	2682.3	2674.9
12.5°	2707.1	2702.1	2707.1	2702.1	2702.1	2697.2	2672.5	2662.6	2665.0	2667.6	2657.6
15°	2687.3	2679.9	2687.3	2682.3	2684.8	2677.4	2650.3	2640.4	2640.4	2645.3	2628.0
17.5°	2657.6	2647.7	2657.6	2655.2	2652.7	2647.7	2623.1	2613.2	2610.7	2613.2	2600.8
20°	2623.1	2615.7	2623.1	2620.6	2620.6	2610.7	2586.1	2573.7	2573.7	2573.7	2561.3
22.5°	2568.8	2561.3	2568.8	2573.7	2573.7	2571.2	2548.9	2531.7	2526.7	2526.7	2511.9
25°	2507.0	2499.6	2507.0	2507.0	2504.5	2507.0	2499.6	2489.7	2482.3	2474.9	2460.1
27.5°	2447.7	2442.8	2447.7	2442.8	2447.7	2440.3	2437.8	2435.4	2425.5	2418.1	2398.3
30°	2388.5	2383.5	2388.5	2383.5	2378.5	2373.6	2361.3	2356.3	2366.2	2361.3	2329.2
32.5°	2314.3	2309.4	2314.3	2314.3	2309.4	2309.4	2289.7	2282.2	2284.7	2299.5	2269.8
35°	2237.8	2230.4	2237.8	2235.3	2237.8	2230.4	2218.0	2215.5	2205.6	2222.9	2200.7
37.5°	2148.9	2141.4	2148.9	2148.9	2148.9	2153.7	2143.9	2136.5	2121.7	2143.9	2126.6
40°	2057.5	2047.6	2057.5	2055.0	2057.5	2062.4	2057.5	2052.5	2037.7	2055.0	2040.2
42.5°	1953.7	1951.3	1953.7	1956.2	1956.2	1966.1	1973.4	1963.6	1958.7	1946.3	1956.2
45°	1842.6	1837.6	1842.6	1847.5	1850.0	1854.9	1877.2	1877.2	1869.8	1850.0	1864.8
47.5°	1724.0	1711.6	1724.0	1738.8	1738.8	1746.2	1768.5	1785.8	1773.4	1748.7	1756.1
50°	1598.1	1600.5	1598.1	1607.9	1607.9	1635.1	1652.4	1669.7	1682.0	1652.4	1617.8
52.5°	1474.6	1472.1	1474.6	1482.0	1491.9	1504.2	1533.9	1551.1	1570.9	1553.6	1499.3
55°	1351.0	1356.0	1351.0	1353.5	1358.5	1365.9	1410.4	1427.6	1464.7	1442.4	1385.6
57.5°	1227.5	1220.2	1227.5	1232.5	1234.9	1242.4	1279.4	1311.6	1333.7	1336.3	1267.1
60°	1084.3	1074.4	1084.3	1106.5	1111.5	1116.4	1151.0	1180.6	1200.3	1207.8	1136.1
62.5°	958.4	941.1	958.4	973.1	983.0	995.4	1020.0	1064.5	1081.8	1084.3	983.0
65°	825.0	817.6	825.0	854.6	857.0	871.9	899.1	931.2	968.2	963.3	817.6
67.5°	703.9	703.9	703.9	723.6	738.5	745.9	780.5	795.3	842.3	847.2	681.7
70°	592.8	590.4	592.8	607.6	617.5	634.8	666.9	684.2	721.2	733.6	553.3
72.5°	486.6	484.1	486.6	498.9	508.8	523.6	550.8	570.5	602.7	617.5	429.8
75°	392.8	387.8	392.8	402.6	400.1	419.9	442.1	461.8	491.6	501.4	318.6
77.5°	301.3	301.3	301.3	311.3	311.3	331.0	340.9	365.6	382.9	397.6	234.6
80°	224.8	222.3	224.8	227.2	227.2	237.1	254.4	271.7	286.5	286.5	160.6
82.5°	158.1	153.1	158.1	158.1	158.1	163.0	172.9	177.9	187.7	195.2	101.2
85°	98.8	98.8	98.8	101.2	98.8	103.8	106.2	111.1	111.1	106.2	61.8
87.5°	64.2	61.8	64.2	61.8	61.8	59.3	59.3	59.3	56.8	54.3	34.6
90°	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.3	25.1	16.9	10.7
92.5°	58.6	47.0	58.6	70.3	73.2	103.8	144.5	164.9	144.8	104.6	74.4
95°	204.4	169.2	204.4	239.8	248.5	326.4	430.2	482.0	407.1	257.2	144.9
97.5°	489.8	422.7	489.8	556.9	573.7	622.9	688.5	721.3	596.3	346.5	159.1
100°	705.7	625.7	705.7	785.6	805.6	802.1	797.3	794.9	656.3	379.0	171.1
102.5°	918.1	849.6	918.1	986.6	1003.7	941.1	857.5	815.7	675.1	393.9	183.0
105°	1188.9	1152.0	1188.9	1225.7	1234.9	1094.4	907.0	813.4	677.3	405.0	200.8
107.5°	1366.3	1375.1	1366.3	1357.4	1355.1	1159.1	897.8	767.1	647.1	407.0	226.9
110°	1433.8	1472.3	1433.8	1395.5	1385.9	1166.8	874.7	728.6	620.4	404.0	241.6





TEST NUMBER: P934447

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1439.9	1498.8	1439.9	1381.0	1366.3	1142.0	843.0	693.6	597.1	404.1	259.3
115°	1401.7	1483.4	1401.7	1320.0	1299.6	1083.6	795.6	651.6	570.4	407.8	285.9
117.5°	1320.8	1411.4	1320.8	1230.2	1207.5	1012.6	752.6	622.6	553.5	415.4	311.7
120°	1255.5	1343.5	1255.5	1167.4	1145.5	967.3	729.8	611.1	547.9	421.6	326.8
122.5°	1192.0	1278.9	1192.0	1105.2	1083.5	923.1	709.2	602.2	544.9	430.3	344.4
125°	1101.4	1181.4	1101.4	1021.4	1001.4	865.2	683.5	592.6	542.5	442.3	367.2
127.5°	1019.9	1087.3	1019.9	952.4	935.5	818.5	662.5	584.5	541.1	454.3	389.1
130°	971.8	1034.2	971.8	909.5	893.9	789.7	650.8	581.4	541.9	463.0	403.8
132.5°	928.3	984.1	928.3	872.4	858.4	765.2	640.9	578.8	542.5	470.1	415.8
135°	868.5	916.7	868.5	820.4	808.3	730.3	626.2	574.1	541.9	477.7	429.6
137.5°	820.7	860.0	820.7	781.2	771.4	705.4	617.4	573.3	545.3	489.3	447.4
140°	787.7	824.5	787.7	750.8	741.7	684.7	608.7	570.6	545.9	496.4	459.3
142.5°	760.5	792.2	760.5	728.9	720.9	670.8	604.0	570.6	547.8	502.3	468.1
145°	719.7	743.7	719.7	695.7	689.7	648.8	594.1	566.8	547.9	510.1	481.7
147.5°	688.3	708.2	688.3	668.4	663.5	631.2	588.3	566.8	551.7	521.3	498.6
150°	668.6	684.7	668.6	652.5	648.5	621.3	584.9	566.8	553.6	527.3	507.5
152.5°	651.8	663.9	651.8	639.6	636.5	613.3	582.3	566.8	554.9	531.1	513.2
155°	632.3	640.4	632.3	624.3	622.2	603.7	579.1	566.8	557.7	539.6	526.0
157.5°	617.0	622.6	617.0	611.3	609.9	595.5	576.3	566.8	560.5	548.0	538.7
160°	607.8	611.1	607.8	604.6	603.7	591.4	575.0	566.8	561.9	551.9	544.5
162.5°	601.9	604.9	601.9	598.8	598.0	587.6	573.7	566.8	563.3	556.1	550.6
165°	593.2	596.4	593.2	590.0	589.1	581.7	571.8	566.8	565.1	561.9	559.4
167.5°	587.0	588.4	587.0	585.7	585.3	580.5	573.9	570.6	569.2	566.5	564.5
170°	585.3	585.3	585.3	585.3	585.3	580.5	573.9	570.6	570.5	570.4	570.3
172.5°	580.7	579.5	580.7	581.9	582.2	578.4	573.3	570.6	570.6	570.6	570.6
175°	577.9	577.9	577.9	577.9	577.9	575.5	572.2	570.6	571.4	573.0	574.1
177.5°	575.5	574.1	575.5	576.8	577.2	575.2	572.7	571.4	571.9	573.2	574.1
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



TEST NUMBER: P934447

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2647.7	2633.0	2633.0	2608.3	2598.4	2591.0	2578.6	2541.6	2531.7	2521.8	2536.6
5°	2670.0	2642.8	2623.1	2578.6	2541.6	2526.7	2479.8	2390.9	2331.6	2287.1	2262.5
7.5°	2674.9	2640.4	2603.3	2534.2	2445.2	2405.7	2262.5	2099.4	2055.0	2015.5	1990.7
10°	2670.0	2630.4	2578.6	2474.9	2264.9	2195.8	2052.5	1946.3	1919.1	1911.8	1919.1
12.5°	2652.7	2615.7	2544.0	2371.2	2077.2	2030.3	1946.3	1884.6	1879.6	1891.9	1958.7
15°	2623.1	2588.5	2504.5	2232.8	1973.4	1938.9	1879.6	1857.4	1884.6	1971.0	2171.0
17.5°	2593.4	2553.9	2450.1	2097.0	1894.5	1869.8	1827.7	1872.2	2025.3	2141.4	2208.1
20°	2553.9	2507.0	2388.5	1998.2	1837.6	1815.4	1795.7	1995.7	2111.8	2153.7	2190.9
22.5°	2507.0	2457.6	2304.4	1929.0	1778.4	1761.1	1773.4	2064.9	2111.8	2141.4	2173.6
25°	2445.2	2403.2	2205.6	1874.6	1731.4	1711.6	1758.6	2057.5	2084.6	2092.1	2156.3
27.5°	2388.5	2334.1	2101.9	1825.3	1674.6	1667.2	1771.0	2025.3	2045.1	2052.5	2121.7
30°	2319.3	2237.8	1985.8	1773.4	1615.4	1612.8	1773.4	1985.8	1980.9	2000.6	2069.8
32.5°	2247.7	2094.5	1854.9	1709.2	1558.5	1556.1	1756.1	1926.5	1921.6	1948.8	2000.6
35°	2180.9	1983.4	1677.0	1635.1	1486.9	1489.4	1714.2	1857.4	1859.9	1884.6	1916.7
37.5°	2111.8	1887.0	1482.0	1553.6	1417.8	1417.8	1657.3	1793.1	1788.3	1795.7	1840.1
40°	2030.3	1736.4	1309.1	1447.4	1353.5	1346.1	1588.2	1724.0	1706.7	1704.2	1766.0
42.5°	1943.8	1570.9	1180.6	1306.6	1279.4	1269.5	1504.2	1640.0	1607.9	1615.4	1694.3
45°	1850.0	1526.4	1081.8	1104.1	1202.9	1195.5	1412.8	1543.7	1521.5	1541.2	1622.7
47.5°	1756.1	1437.5	1049.8	916.4	1121.4	1118.8	1311.6	1449.8	1437.5	1457.3	1543.7
50°	1627.7	1338.7	1047.2	785.4	1030.0	1039.9	1190.5	1358.5	1358.5	1375.8	1467.1
52.5°	1462.2	1217.6	951.0	711.3	923.8	953.4	1084.3	1279.4	1284.4	1301.7	1383.2
55°	1311.6	1091.7	881.8	654.6	797.8	862.0	980.6	1197.9	1207.8	1225.1	1299.1
57.5°	1173.2	908.9	866.9	587.8	681.7	743.5	889.2	1118.8	1123.8	1138.7	1210.3
60°	1025.0	657.0	795.3	516.2	580.5	627.4	805.2	1025.0	1042.3	1052.2	1114.0
62.5°	857.0	476.7	721.2	466.8	531.0	540.9	736.1	936.1	958.4	965.7	1002.8
65°	610.1	400.1	612.5	424.8	479.1	481.7	662.0	844.7	864.5	876.8	904.0
67.5°	412.5	326.0	466.8	385.3	439.7	442.1	590.4	738.5	765.7	775.5	792.8
70°	286.5	217.3	345.7	343.3	395.2	400.1	513.7	642.1	666.9	674.3	684.2
72.5°	209.9	175.4	286.5	308.7	348.3	353.2	434.7	533.5	558.2	565.6	570.5
75°	160.6	185.3	232.2	269.2	296.4	298.8	355.7	434.7	452.0	457.0	459.4
77.5°	128.4	172.9	170.4	217.3	242.1	237.1	279.1	335.9	350.7	350.7	350.7
80°	96.4	135.8	128.4	155.6	177.9	172.9	200.0	239.6	244.5	249.5	246.9
82.5°	71.6	86.5	86.5	98.8	118.5	113.7	133.4	155.6	155.6	155.6	160.6
85°	44.5	49.4	39.5	51.9	66.6	64.2	74.1	83.9	86.5	86.5	81.5
87.5°	27.2	22.2	12.3	19.7	29.6	29.6	34.6	37.0	34.6	34.6	34.6
90°	10.0	6.9	3.8	6.9	10.0	10.7	16.9	25.1	29.3	26.0	19.5
92.5°	67.9	41.6	15.4	41.6	67.9	74.4	104.6	144.8	164.9	144.5	103.8
95°	132.9	85.0	37.0	85.0	132.9	144.9	257.2	407.1	482.0	430.2	326.4
97.5°	148.5	106.2	63.9	106.2	148.5	159.1	346.5	596.3	721.3	688.5	622.9
100°	161.4	123.1	84.8	123.1	161.4	171.1	379.0	656.3	794.9	797.3	802.1
102.5°	174.0	138.3	102.5	138.3	174.0	183.0	393.9	675.1	815.7	857.5	941.1
105°	193.2	162.8	132.5	162.8	193.2	200.8	405.0	677.3	813.4	907.0	1094.4
107.5°	219.8	191.6	163.4	191.6	219.8	226.9	407.0	647.1	767.1	897.8	1159.1
110°	235.3	209.7	184.1	209.7	235.3	241.6	404.0	620.4	728.6	874.7	1166.8



TEST NUMBER: P934447

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	253.2	228.9	204.6	228.9	253.2	259.3	404.1	597.1	693.6	843.0	1142.0
115°	280.3	257.9	235.5	257.9	280.3	285.9	407.8	570.4	651.6	795.6	1083.6
117.5°	306.6	286.2	265.8	286.2	306.6	311.7	415.4	553.5	622.6	752.6	1012.6
120°	322.0	302.8	283.6	302.8	322.0	326.8	421.6	547.9	611.1	729.8	967.3
122.5°	339.6	320.2	300.9	320.2	339.6	344.4	430.3	544.9	602.2	709.2	923.1
125°	362.8	345.1	327.5	345.1	362.8	367.2	442.3	542.5	592.6	683.5	865.2
127.5°	384.6	366.9	349.1	366.9	384.6	389.1	454.3	541.1	584.5	662.5	818.5
130°	399.0	379.8	360.6	379.8	399.0	403.8	463.0	541.9	581.4	650.8	789.7
132.5°	411.0	391.7	372.6	391.7	411.0	415.8	470.1	542.5	578.8	640.9	765.2
135°	425.2	407.8	390.3	407.8	425.2	429.6	477.7	541.9	574.1	626.2	730.3
137.5°	443.1	425.8	408.5	425.8	443.1	447.4	489.3	545.3	573.3	617.4	705.4
140°	455.3	439.4	423.4	439.4	455.3	459.3	496.4	545.9	570.6	608.7	684.7
142.5°	464.5	449.7	435.0	449.7	464.5	468.1	502.3	547.8	570.6	604.0	670.8
145°	478.5	465.6	452.8	465.6	478.5	481.7	510.1	547.9	566.8	594.1	648.8
147.5°	495.5	483.0	470.4	483.0	495.5	498.6	521.3	551.7	566.8	588.3	631.2
150°	504.6	493.3	482.0	493.3	504.6	507.5	527.3	553.6	566.8	584.9	621.3
152.5°	511.1	502.6	494.0	502.6	511.1	513.2	531.1	554.9	566.8	582.3	613.3
155°	524.4	518.0	511.7	518.0	524.4	526.0	539.6	557.7	566.8	579.1	603.7
157.5°	537.1	530.9	524.7	530.9	537.1	538.7	548.0	560.5	566.8	576.3	595.5
160°	543.3	538.5	533.6	538.5	543.3	544.5	551.9	561.9	566.8	575.0	591.4
162.5°	549.7	546.1	542.5	546.1	549.7	550.6	556.1	563.3	566.8	573.7	587.6
165°	558.6	555.4	552.1	555.4	558.6	559.4	561.9	565.1	566.8	571.8	581.7
167.5°	564.1	562.5	561.0	562.5	564.1	564.5	566.5	569.2	570.6	573.9	580.5
170°	569.9	568.3	566.8	568.3	569.9	570.3	570.4	570.5	570.6	573.9	580.5
172.5°	570.5	570.3	569.9	570.3	570.5	570.6	570.6	570.6	570.6	573.3	578.4
175°	574.1	574.1	574.1	574.1	574.1	574.1	573.0	571.4	570.6	572.2	575.5
177.5°	574.1	574.1	574.1	574.1	574.1	574.1	573.2	571.9	571.4	572.7	575.2
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



TEST NUMBER: P934447

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2519.3	2511.9	2521.8	2494.6	2521.8	2511.9	2519.3	2536.6	2521.8	2531.7	2541.6
5°	2210.6	2198.2	2158.7	2126.6	2158.7	2198.2	2210.6	2262.5	2287.1	2331.6	2390.9
7.5°	1976.0	1966.1	1956.2	1936.4	1956.2	1966.1	1976.0	1990.7	2015.5	2055.0	2099.4
10°	1924.1	1926.5	1941.4	1938.9	1941.4	1926.5	1924.1	1919.1	1911.8	1919.1	1946.3
12.5°	2057.5	2079.7	2161.2	2156.3	2161.2	2079.7	2057.5	1958.7	1891.9	1879.6	1884.6
15°	2210.6	2218.0	2235.3	2237.8	2235.3	2218.0	2210.6	2171.0	1971.0	1884.6	1857.4
17.5°	2225.4	2227.9	2240.2	2240.2	2240.2	2227.9	2225.4	2208.1	2141.4	2025.3	1872.2
20°	2213.1	2218.0	2242.7	2247.7	2242.7	2218.0	2213.1	2190.9	2153.7	2111.8	1995.7
22.5°	2208.1	2218.0	2237.8	2235.3	2237.8	2218.0	2208.1	2173.6	2141.4	2111.8	2064.9
25°	2183.4	2183.4	2185.9	2188.3	2185.9	2183.4	2183.4	2156.3	2092.1	2084.6	2057.5
27.5°	2131.6	2136.5	2151.3	2148.9	2151.3	2136.5	2131.6	2121.7	2052.5	2045.1	2025.3
30°	2084.6	2079.7	2067.3	2057.5	2067.3	2079.7	2084.6	2069.8	2000.6	1980.9	1985.8
32.5°	2005.6	1993.3	1980.9	1973.4	1980.9	1993.3	2005.6	2000.6	1948.8	1921.6	1926.5
35°	1911.8	1914.2	1911.8	1904.3	1911.8	1914.2	1911.8	1916.7	1884.6	1859.9	1857.4
37.5°	1845.0	1850.0	1847.5	1837.6	1847.5	1850.0	1845.0	1840.1	1795.7	1788.3	1793.1
40°	1775.8	1778.4	1775.8	1768.5	1775.8	1778.4	1775.8	1766.0	1704.2	1706.7	1724.0
42.5°	1709.2	1706.7	1699.3	1694.3	1699.3	1706.7	1709.2	1694.3	1615.4	1607.9	1640.0
45°	1632.7	1635.1	1620.3	1612.8	1620.3	1635.1	1632.7	1622.7	1541.2	1521.5	1543.7
47.5°	1556.1	1556.1	1543.7	1536.3	1543.7	1556.1	1556.1	1543.7	1457.3	1437.5	1449.8
50°	1474.6	1472.1	1454.8	1452.3	1454.8	1472.1	1474.6	1467.1	1375.8	1358.5	1358.5
52.5°	1380.7	1380.7	1383.2	1388.1	1383.2	1380.7	1380.7	1383.2	1301.7	1284.4	1279.4
55°	1299.1	1301.7	1319.0	1323.9	1319.0	1301.7	1299.1	1299.1	1225.1	1207.8	1197.9
57.5°	1215.2	1215.2	1227.5	1227.5	1227.5	1215.2	1215.2	1210.3	1138.7	1123.8	1118.8
60°	1118.8	1123.8	1133.7	1131.3	1133.7	1123.8	1118.8	1114.0	1052.2	1042.3	1025.0
62.5°	1017.6	1022.6	1025.0	1020.0	1025.0	1022.6	1017.6	1002.8	965.7	958.4	936.1
65°	911.4	916.4	918.8	913.9	918.8	916.4	911.4	904.0	876.8	864.5	844.7
67.5°	802.7	800.3	797.8	807.7	797.8	800.3	802.7	792.8	775.5	765.7	738.5
70°	691.6	691.6	689.1	694.0	689.1	691.6	691.6	684.2	674.3	666.9	642.1
72.5°	573.1	570.5	580.5	573.1	580.5	570.5	573.1	570.5	565.6	558.2	533.5
75°	457.0	461.8	457.0	464.4	457.0	461.8	457.0	459.4	457.0	452.0	434.7
77.5°	348.3	353.2	348.3	348.3	348.3	353.2	348.3	350.7	350.7	350.7	335.9
80°	246.9	244.5	244.5	242.1	244.5	244.5	246.9	246.9	249.5	244.5	239.6
82.5°	158.1	155.6	155.6	160.6	155.6	155.6	158.1	160.6	155.6	155.6	155.6
85°	86.5	88.9	83.9	83.9	83.9	88.9	86.5	81.5	86.5	86.5	83.9
87.5°	32.2	29.6	29.6	29.6	29.6	29.6	32.2	34.6	34.6	34.6	37.0
90°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.3	25.1
92.5°	73.2	70.3	58.6	47.0	58.6	70.3	73.2	103.8	144.5	164.9	144.8
95°	248.5	239.8	204.4	169.2	204.4	239.8	248.5	326.4	430.2	482.0	407.1
97.5°	573.7	556.9	489.8	422.7	489.8	556.9	573.7	622.9	688.5	721.3	596.3
100°	805.6	785.6	705.7	625.7	705.7	785.6	805.6	802.1	797.3	794.9	656.3
102.5°	1003.7	986.6	918.1	849.6	918.1	986.6	1003.7	941.1	857.5	815.7	675.1
105°	1234.9	1225.7	1188.9	1152.0	1188.9	1225.7	1234.9	1094.4	907.0	813.4	677.3
107.5°	1355.1	1357.4	1366.3	1375.1	1366.3	1357.4	1355.1	1159.1	897.8	767.1	647.1
110°	1385.9	1395.5	1433.8	1472.3	1433.8	1395.5	1385.9	1166.8	874.7	728.6	620.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1366.3	1381.0	1439.9	1498.8	1439.9	1381.0	1366.3	1142.0	843.0	693.6	597.1
115°	1299.6	1320.0	1401.7	1483.4	1401.7	1320.0	1299.6	1083.6	795.6	651.6	570.4
117.5°	1207.5	1230.2	1320.8	1411.4	1320.8	1230.2	1207.5	1012.6	752.6	622.6	553.5
120°	1145.5	1167.4	1255.5	1343.5	1255.5	1167.4	1145.5	967.3	729.8	611.1	547.9
122.5°	1083.5	1105.2	1192.0	1278.9	1192.0	1105.2	1083.5	923.1	709.2	602.2	544.9
125°	1001.4	1021.4	1101.4	1181.4	1101.4	1021.4	1001.4	865.2	683.5	592.6	542.5
127.5°	935.5	952.4	1019.9	1087.3	1019.9	952.4	935.5	818.5	662.5	584.5	541.1
130°	893.9	909.5	971.8	1034.2	971.8	909.5	893.9	789.7	650.8	581.4	541.9
132.5°	858.4	872.4	928.3	984.1	928.3	872.4	858.4	765.2	640.9	578.8	542.5
135°	808.3	820.4	868.5	916.7	868.5	820.4	808.3	730.3	626.2	574.1	541.9
137.5°	771.4	781.2	820.7	860.0	820.7	781.2	771.4	705.4	617.4	573.3	545.3
140°	741.7	750.8	787.7	824.5	787.7	750.8	741.7	684.7	608.7	570.6	545.9
142.5°	720.9	728.9	760.5	792.2	760.5	728.9	720.9	670.8	604.0	570.6	547.8
145°	689.7	695.7	719.7	743.7	719.7	695.7	689.7	648.8	594.1	566.8	547.9
147.5°	663.5	668.4	688.3	708.2	688.3	668.4	663.5	631.2	588.3	566.8	551.7
150°	648.5	652.5	668.6	684.7	668.6	652.5	648.5	621.3	584.9	566.8	553.6
152.5°	636.5	639.6	651.8	663.9	651.8	639.6	636.5	613.3	582.3	566.8	554.9
155°	622.2	624.3	632.3	640.4	632.3	624.3	622.2	603.7	579.1	566.8	557.7
157.5°	609.9	611.3	617.0	622.6	617.0	611.3	609.9	595.5	576.3	566.8	560.5
160°	603.7	604.6	607.8	611.1	607.8	604.6	603.7	591.4	575.0	566.8	561.9
162.5°	598.0	598.8	601.9	604.9	601.9	598.8	598.0	587.6	573.7	566.8	563.3
165°	589.1	590.0	593.2	596.4	593.2	590.0	589.1	581.7	571.8	566.8	565.1
167.5°	585.3	585.7	587.0	588.4	587.0	585.7	585.3	580.5	573.9	570.6	569.2
170°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	580.5	573.9	570.6	570.5
172.5°	582.2	581.9	580.7	579.5	580.7	581.9	582.2	578.4	573.3	570.6	570.6
175°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	575.5	572.2	570.6	571.4
177.5°	577.2	576.8	575.5	574.1	575.5	576.8	577.2	575.2	572.7	571.4	571.9
180°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2578.6	2591.0	2598.4	2608.3	2633.0
5°	2479.8	2526.7	2541.6	2578.6	2623.1
7.5°	2262.5	2405.7	2445.2	2534.2	2603.3
10°	2052.5	2195.8	2264.9	2474.9	2578.6
12.5°	1946.3	2030.3	2077.2	2371.2	2544.0
15°	1879.6	1938.9	1973.4	2232.8	2504.5
17.5°	1827.7	1869.8	1894.5	2097.0	2450.1
20°	1795.7	1815.4	1837.6	1998.2	2388.5
22.5°	1773.4	1761.1	1778.4	1929.0	2304.4
25°	1758.6	1711.6	1731.4	1874.6	2205.6
27.5°	1771.0	1667.2	1674.6	1825.3	2101.9
30°	1773.4	1612.8	1615.4	1773.4	1985.8
32.5°	1756.1	1556.1	1558.5	1709.2	1854.9
35°	1714.2	1489.4	1486.9	1635.1	1677.0
37.5°	1657.3	1417.8	1417.8	1553.6	1482.0
40°	1588.2	1346.1	1353.5	1447.4	1309.1
42.5°	1504.2	1269.5	1279.4	1306.6	1180.6
45°	1412.8	1195.5	1202.9	1104.1	1081.8
47.5°	1311.6	1118.8	1121.4	916.4	1049.8
50°	1190.5	1039.9	1030.0	785.4	1047.2
52.5°	1084.3	953.4	923.8	711.3	951.0
55°	980.6	862.0	797.8	654.6	881.8
57.5°	889.2	743.5	681.7	587.8	866.9
60°	805.2	627.4	580.5	516.2	795.3
62.5°	736.1	540.9	531.0	466.8	721.2
65°	662.0	481.7	479.1	424.8	612.5
67.5°	590.4	442.1	439.7	385.3	466.8
70°	513.7	400.1	395.2	343.3	345.7
72.5°	434.7	353.2	348.3	308.7	286.5
75°	355.7	298.8	296.4	269.2	232.2
77.5°	279.1	237.1	242.1	217.3	170.4
80°	200.0	172.9	177.9	155.6	128.4
82.5°	133.4	113.7	118.5	98.8	86.5
85°	74.1	64.2	66.6	51.9	39.5
87.5°	34.6	29.6	29.6	19.7	12.3
90°	16.9	10.7	10.0	6.9	3.8
92.5°	104.6	74.4	67.9	41.6	15.4
95°	257.2	144.9	132.9	85.0	37.0
97.5°	346.5	159.1	148.5	106.2	63.9
100°	379.0	171.1	161.4	123.1	84.8
102.5°	393.9	183.0	174.0	138.3	102.5
105°	405.0	200.8	193.2	162.8	132.5
107.5°	407.0	226.9	219.8	191.6	163.4
110°	404.0	241.6	235.3	209.7	184.1



TEST NUMBER: P934447

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	404.1	259.3	253.2	228.9	204.6
115°	407.8	285.9	280.3	257.9	235.5
117.5°	415.4	311.7	306.6	286.2	265.8
120°	421.6	326.8	322.0	302.8	283.6
122.5°	430.3	344.4	339.6	320.2	300.9
125°	442.3	367.2	362.8	345.1	327.5
127.5°	454.3	389.1	384.6	366.9	349.1
130°	463.0	403.8	399.0	379.8	360.6
132.5°	470.1	415.8	411.0	391.7	372.6
135°	477.7	429.6	425.2	407.8	390.3
137.5°	489.3	447.4	443.1	425.8	408.5
140°	496.4	459.3	455.3	439.4	423.4
142.5°	502.3	468.1	464.5	449.7	435.0
145°	510.1	481.7	478.5	465.6	452.8
147.5°	521.3	498.6	495.5	483.0	470.4
150°	527.3	507.5	504.6	493.3	482.0
152.5°	531.1	513.2	511.1	502.6	494.0
155°	539.6	526.0	524.4	518.0	511.7
157.5°	548.0	538.7	537.1	530.9	524.7
160°	551.9	544.5	543.3	538.5	533.6
162.5°	556.1	550.6	549.7	546.1	542.5
165°	561.9	559.4	558.6	555.4	552.1
167.5°	566.5	564.5	564.1	562.5	561.0
170°	570.4	570.3	569.9	568.3	566.8
172.5°	570.6	570.6	570.5	570.3	569.9
175°	573.0	574.1	574.1	574.1	574.1
177.5°	573.2	574.1	574.1	574.1	574.1
180°	574.1	574.1	574.1	574.1	574.1



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.72	15.72	15.54	16.57	17.62	17.55	18.56	18.37	19.41	20.45
	3H	15.20	16.11	16.04	16.96	18.04	18.91	19.82	19.75	20.67	21.75
	4H	15.40	16.26	16.25	17.12	18.20	19.37	20.22	20.22	21.08	22.17
	6H	15.53	16.32	16.39	17.18	18.28	19.66	20.45	20.52	21.32	22.42
	8H	15.53	16.28	16.41	17.17	18.27	19.74	20.49	20.61	21.38	22.48
	12H	15.51	16.23	16.39	17.11	18.23	19.78	20.50	20.66	21.38	22.51
4H	2H	15.77	16.62	16.62	17.48	18.57	17.98	18.84	18.84	19.70	20.78
	3H	16.81	17.52	17.68	18.42	19.52	19.50	20.21	20.37	21.11	22.21
	4H	17.09	17.74	17.97	18.63	19.76	20.04	20.69	20.92	21.58	22.71
	6H	17.22	17.79	18.12	18.70	19.83	20.41	20.97	21.31	21.89	23.02
	8H	17.23	17.76	18.13	18.67	19.81	20.53	21.05	21.42	21.96	23.10
	12H	17.21	17.68	18.13	18.61	19.76	20.59	21.06	21.51	21.99	23.14
8H	4H	17.56	18.08	18.46	18.99	20.13	20.17	20.70	21.07	21.61	22.75
	6H	17.83	18.26	18.75	19.21	20.35	20.62	21.05	21.54	22.00	23.15
	8H	17.87	18.25	18.80	19.20	20.36	20.77	21.16	21.71	22.10	23.26
	12H	17.86	18.20	18.80	19.13	20.34	20.88	21.22	21.82	22.15	23.36
12H	4H	17.57	18.04	18.49	18.97	20.12	20.15	20.62	21.06	21.55	22.69
	6H	17.89	18.27	18.82	19.21	20.38	20.62	21.00	21.55	21.94	23.10
	8H	17.96	18.30	18.90	19.23	20.45	20.79	21.12	21.73	22.06	23.27