

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: P935254

Luminaire Tested: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

**Test Information**

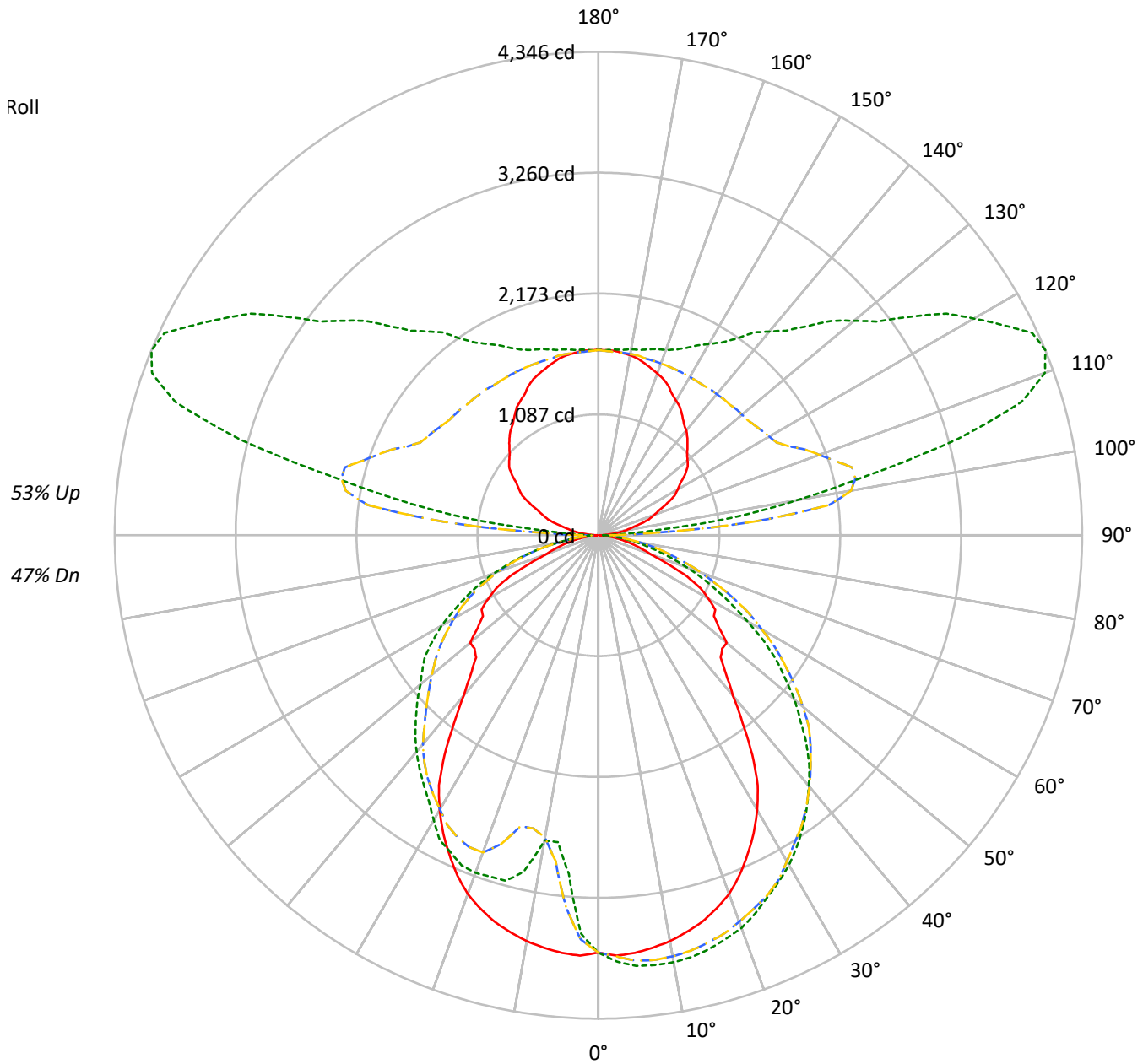
Test Method: LM-79-2019  
Report Number: P935254  
REPORT IS A COMBINATION OF REPORTS P933745 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-12-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20523.3 lumens  
Efficiency: N/A  
Efficacy: 117.9 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): 174  
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

TEST NUMBER: P935254  
CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-12-3500K

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - 90°-270°    - · - 135°-315°



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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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

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

	0°	90°	180°	270°
0°	11602	11602	11602	11602
5°	11693	11712	11693	9209
10°	11619	11537	11619	8248
15°	11497	11287	11497	9425
20°	11261	10991	11261	9444
25°	10773	10559	10773	9244
30°	10142	10200	10142	8805
35°	9046	9747	9046	8322
40°	7542	9213	7542	7957
45°	6743	8588	6743	7537
50°	7169	7843	7169	7117
55°	6752	7040	6752	6873
60°	6968	5979	6968	6295
65°	6328	4942	6328	5525
70°	4392	3938	4392	4631
75°	3867	2912	3867	3487
80°	3138	1925	3138	2095
85°	1840	1019	1840	867

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10328 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.6	1.6
10°-20°	961.4	4.7
20°-30°	1486.1	7.2
30°-40°	1774.1	8.6
40°-50°	1784.5	8.7
50°-60°	1552.7	7.6
60°-70°	1100.9	5.4
70°-80°	582.4	2.8
80°-90°	151.4	0.7
90°-100°	811.4	4.0
100°-110°	2133.3	10.4
110°-120°	2212.0	10.8
120°-130°	1774.3	8.6
130°-140°	1392.2	6.8
140°-150°	1068.5	5.2
150°-160°	769.5	3.7
160°-170°	470.8	2.3
170°-180°	159.1	0.8
0°-30°	2786.1	13.6
0°-40°	4560.2	22.2
0°-60°	7897.4	38.5
0°-90°	9732.1	47.4
90°-120°	5156.7	25.1
90°-150°	9391.7	45.8
90°-180°	10791.0	52.6
0°-180°	20523.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3751	3751	3751	3751	3751	
5°	3769	3886	3769	3056	3769	358
15°	3598	3850	3598	3215	3598	1012
25°	3169	3591	3169	3144	3169	1455
35°	2410	3204	2410	2736	2410	1491
45°	1554	2640	1554	2317	1554	1245
55°	1267	1948	1267	1902	1267	1164
65°	880	1175	880	1313	880	841
75°	334	557	334	667	334	351
85°	57	142	57	121	57	77
90°	11	42	11	42	11	12
95°	107	490	107	490	107	119
105°	384	3340	384	3340	384	407
115°	683	4301	683	4301	683	674
125°	950	3425	950	3425	950	843
135°	1132	2658	1132	2658	1132	876
145°	1313	2156	1313	2156	1313	822
155°	1484	1857	1484	1857	1484	682
165°	1601	1729	1601	1729	1601	452
175°	1665	1676	1665	1676	1665	158
180°	1665	1665	1665	1665	1665	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3783.0	3783.0	3804.3	3811.3	3811.3	3800.7	3790.0	3800.7	3832.7	3843.3	3839.7
5°	3768.8	3797.2	3836.2	3843.3	3850.4	3846.9	3839.7	3846.9	3882.3	3889.4	3893.0
7.5°	3740.3	3793.6	3843.3	3854.0	3864.6	3854.0	3850.4	3857.5	3893.0	3900.1	3900.1
10°	3704.9	3779.5	3836.2	3843.3	3854.0	3843.3	3843.3	3857.5	3893.0	3900.1	3903.6
12.5°	3655.2	3758.2	3811.3	3818.5	3832.7	3829.1	3825.6	3839.7	3875.3	3882.3	3882.3
15°	3598.4	3719.1	3768.8	3775.9	3800.7	3793.6	3793.6	3807.9	3846.9	3857.5	3854.0
17.5°	3520.4	3669.4	3726.2	3736.9	3754.6	3751.0	3754.6	3768.8	3804.3	3811.3	3814.9
20°	3431.6	3602.0	3669.4	3680.1	3697.8	3697.8	3697.8	3715.5	3751.0	3765.2	3765.2
22.5°	3311.0	3531.0	3602.0	3609.1	3630.4	3630.4	3637.5	3662.3	3694.2	3697.8	3697.8
25°	3169.0	3452.9	3513.3	3534.6	3555.8	3566.5	3577.1	3591.4	3602.0	3598.4	3602.0
27.5°	3020.0	3353.6	3431.6	3445.9	3474.3	3484.9	3499.1	3502.6	3506.1	3516.8	3509.7
30°	2853.2	3215.2	3332.3	3346.5	3392.6	3399.7	3385.5	3392.6	3410.3	3417.5	3424.6
32.5°	2665.1	3009.3	3229.4	3261.3	3303.9	3282.6	3279.1	3289.7	3318.1	3318.1	3325.2
35°	2409.6	2849.7	3133.6	3162.0	3193.8	3169.0	3183.2	3186.8	3204.5	3215.2	3211.7
37.5°	2129.2	2711.3	3034.2	3055.5	3080.3	3048.4	3069.7	3080.3	3094.6	3087.4	3087.4
40°	1880.9	2494.8	2917.1	2931.3	2952.6	2927.8	2949.0	2956.1	2963.2	2956.1	2952.6
42.5°	1696.3	2257.0	2792.8	2810.7	2796.4	2814.1	2821.2	2835.5	2824.8	2810.7	2810.7
45°	1554.4	2193.2	2658.0	2679.3	2658.0	2686.4	2697.0	2697.0	2665.1	2658.0	2654.5
47.5°	1508.2	2065.4	2523.2	2523.2	2512.5	2548.0	2565.8	2540.9	2508.9	2498.4	2498.4
50°	1504.7	1923.4	2338.6	2324.4	2374.1	2416.7	2399.0	2374.1	2349.3	2310.3	2310.3
52.5°	1366.2	1749.5	2100.8	2154.1	2232.2	2257.0	2228.6	2203.8	2161.2	2143.5	2129.2
55°	1266.9	1568.6	1884.4	1990.8	2072.5	2104.4	2051.2	2026.4	1962.4	1951.8	1944.7
57.5°	1245.6	1305.9	1685.7	1820.5	1919.9	1916.3	1884.4	1838.3	1785.0	1774.4	1770.8
60°	1142.7	943.9	1472.7	1632.4	1735.4	1724.7	1696.3	1653.7	1604.0	1597.0	1589.8
62.5°	1036.2	684.9	1231.4	1412.4	1557.9	1554.4	1529.6	1465.6	1430.2	1412.4	1398.2
65°	880.1	574.9	876.5	1174.6	1384.0	1391.1	1337.9	1291.8	1252.7	1231.4	1227.8
67.5°	670.7	468.4	592.6	979.5	1217.3	1210.1	1142.7	1121.4	1071.7	1061.0	1039.8
70°	496.8	312.3	411.7	794.9	1054.0	1036.2	983.0	958.2	912.1	887.2	873.0
72.5°	411.7	251.9	301.6	617.5	887.2	865.9	819.7	791.4	752.3	731.0	716.9
75°	333.6	266.2	230.6	457.8	720.4	706.2	663.6	635.2	603.3	574.9	578.5
77.5°	244.9	248.4	184.5	337.2	571.4	550.1	525.2	489.7	475.5	447.1	447.1
80°	184.5	195.2	138.4	230.6	411.7	411.7	390.4	365.6	340.7	326.5	326.5
82.5°	124.2	124.2	102.9	145.5	280.3	269.7	255.5	248.4	234.2	227.1	227.1
85°	56.8	71.0	63.8	88.7	152.6	159.7	159.7	152.6	149.1	141.9	145.5
87.5°	17.7	32.0	39.0	49.7	78.1	81.7	85.1	85.1	85.1	88.7	88.7
90°	11.2	20.1	29.0	31.2	49.2	73.0	84.9	75.5	56.6	42.4	42.4
92.5°	44.7	120.6	196.6	215.6	303.2	419.8	478.2	419.1	300.9	212.3	203.9
95°	107.3	246.3	385.3	420.1	745.9	1180.4	1397.6	1247.2	946.3	720.5	694.9
97.5°	185.4	308.1	430.7	461.4	1004.7	1729.1	2091.4	1996.3	1806.1	1663.5	1614.9
100°	245.8	357.0	468.2	496.0	1098.9	1902.8	2304.8	2311.8	2325.7	2336.0	2278.1
102.5°	297.2	400.9	504.7	530.7	1142.1	1957.5	2365.1	2486.3	2728.6	2910.3	2860.6
105°	384.4	472.2	560.1	582.0	1174.2	1963.7	2358.4	2630.1	3173.3	3580.6	3553.9
107.5°	473.7	555.6	637.6	658.1	1180.1	1876.2	2224.3	2603.2	3360.9	3929.2	3935.6
110°	534.1	608.0	682.0	700.5	1171.2	1798.8	2112.6	2536.2	3383.2	4018.5	4046.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	593.2	663.8	734.2	751.9	1171.6	1731.2	2011.0	2444.5	3311.4	3961.6	4004.3
115°	682.6	747.7	812.7	829.0	1182.3	1653.6	1889.2	2306.8	3141.9	3768.3	3827.5
117.5°	770.9	830.0	889.0	903.8	1204.4	1605.0	1805.4	2182.2	2936.0	3501.3	3566.9
120°	822.3	877.9	933.5	947.4	1222.3	1588.7	1771.9	2116.2	2804.9	3321.4	3385.3
122.5°	872.6	928.7	984.8	998.8	1248.0	1580.1	1746.2	2056.3	2676.4	3141.6	3204.5
125°	949.7	1000.8	1051.9	1064.7	1282.5	1573.1	1718.3	1981.7	2508.5	2903.6	2961.5
127.5°	1012.2	1063.8	1115.5	1128.4	1317.2	1568.9	1694.8	1921.0	2373.3	2712.5	2761.4
130°	1045.7	1101.3	1156.9	1170.8	1342.5	1571.5	1685.9	1887.2	2289.9	2591.9	2637.1
132.5°	1080.4	1136.0	1191.6	1205.4	1362.9	1573.0	1678.0	1858.2	2218.8	2489.1	2529.6
135°	1131.8	1182.3	1233.0	1245.6	1385.3	1571.5	1664.7	1815.6	2117.4	2343.8	2378.8
137.5°	1184.2	1234.4	1284.5	1297.0	1418.8	1581.2	1662.4	1790.0	2045.3	2236.7	2265.2
140°	1227.8	1274.0	1320.1	1331.7	1439.3	1582.8	1654.5	1764.7	1985.3	2150.6	2177.3
142.5°	1261.3	1304.0	1346.7	1357.4	1456.4	1588.5	1654.5	1751.4	1945.1	2090.3	2113.2
145°	1312.7	1350.0	1387.2	1396.5	1478.8	1588.6	1643.4	1722.6	1881.0	1999.8	2017.1
147.5°	1364.1	1400.4	1436.6	1445.7	1511.6	1599.5	1643.4	1705.7	1830.4	1923.8	1938.3
150°	1397.6	1430.4	1463.1	1471.4	1528.7	1605.2	1643.4	1696.1	1801.3	1880.2	1891.9
152.5°	1432.2	1457.0	1481.9	1488.1	1539.8	1608.9	1643.4	1688.4	1778.2	1845.6	1854.4
155°	1483.6	1502.0	1520.4	1525.0	1564.5	1617.1	1643.4	1679.2	1750.6	1804.2	1810.1
157.5°	1521.6	1539.5	1557.4	1561.9	1589.1	1625.3	1643.4	1671.2	1726.8	1768.5	1772.6
160°	1547.3	1561.2	1575.1	1578.6	1600.2	1629.0	1643.4	1667.3	1714.9	1750.6	1752.9
162.5°	1573.0	1583.4	1593.8	1596.4	1612.1	1633.0	1643.4	1663.5	1703.7	1733.9	1736.1
165°	1600.9	1610.3	1619.8	1622.1	1629.2	1638.7	1643.4	1657.8	1686.6	1708.2	1710.5
167.5°	1626.6	1631.1	1635.6	1636.7	1642.6	1650.6	1654.5	1664.0	1682.9	1697.1	1698.0
170°	1643.4	1647.9	1652.4	1653.5	1653.8	1654.3	1654.5	1664.0	1682.9	1697.1	1697.1
172.5°	1652.3	1653.3	1654.3	1654.5	1654.5	1654.5	1654.5	1662.0	1676.9	1688.1	1687.2
175°	1664.7	1664.7	1664.7	1664.7	1661.3	1656.8	1654.5	1659.3	1668.7	1675.8	1675.8
177.5°	1664.7	1664.7	1664.7	1664.7	1662.1	1658.6	1656.8	1660.5	1668.0	1673.5	1672.5
180°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3846.9	3836.2	3846.9	3839.7	3843.3	3832.7	3800.7	3790.0	3800.7	3811.3	3811.3
5°	3893.0	3885.9	3893.0	3893.0	3889.4	3882.3	3846.9	3839.7	3846.9	3850.4	3843.3
7.5°	3907.1	3896.6	3907.1	3900.1	3900.1	3893.0	3857.5	3850.4	3854.0	3864.6	3854.0
10°	3907.1	3896.6	3907.1	3903.6	3900.1	3893.0	3857.5	3843.3	3843.3	3854.0	3843.3
12.5°	3889.4	3882.3	3889.4	3882.3	3882.3	3875.3	3839.7	3825.6	3829.1	3832.7	3818.5
15°	3861.0	3850.4	3861.0	3854.0	3857.5	3846.9	3807.9	3793.6	3793.6	3800.7	3775.9
17.5°	3818.5	3804.3	3818.5	3814.9	3811.3	3804.3	3768.8	3754.6	3751.0	3754.6	3736.9
20°	3768.8	3758.2	3768.8	3765.2	3765.2	3751.0	3715.5	3697.8	3697.8	3697.8	3680.1
22.5°	3690.7	3680.1	3690.7	3697.8	3697.8	3694.2	3662.3	3637.5	3630.4	3630.4	3609.1
25°	3602.0	3591.4	3602.0	3602.0	3598.4	3602.0	3591.4	3577.1	3566.5	3555.8	3534.6
27.5°	3516.8	3509.7	3516.8	3509.7	3516.8	3506.1	3502.6	3499.1	3484.9	3474.3	3445.9
30°	3431.6	3424.6	3431.6	3424.6	3417.5	3410.3	3392.6	3385.5	3399.7	3392.6	3346.5
32.5°	3325.2	3318.1	3325.2	3325.2	3318.1	3318.1	3289.7	3279.1	3282.6	3303.9	3261.3
35°	3215.2	3204.5	3215.2	3211.7	3215.2	3204.5	3186.8	3183.2	3169.0	3193.8	3162.0
37.5°	3087.4	3076.7	3087.4	3087.4	3087.4	3094.6	3080.3	3069.7	3048.4	3080.3	3055.5
40°	2956.1	2941.9	2956.1	2952.6	2956.1	2963.2	2956.1	2949.0	2927.8	2952.6	2931.3
42.5°	2807.1	2803.5	2807.1	2810.7	2810.7	2824.8	2835.5	2821.2	2814.1	2796.4	2810.7
45°	2647.3	2640.3	2647.3	2654.5	2658.0	2665.1	2697.0	2697.0	2686.4	2658.0	2679.3
47.5°	2477.1	2459.3	2477.1	2498.4	2498.4	2508.9	2540.9	2565.8	2548.0	2512.5	2523.2
50°	2296.0	2299.6	2296.0	2310.3	2310.3	2349.3	2374.1	2399.0	2416.7	2374.1	2324.4
52.5°	2118.6	2115.1	2118.6	2129.2	2143.5	2161.2	2203.8	2228.6	2257.0	2232.2	2154.1
55°	1941.1	1948.3	1941.1	1944.7	1951.8	1962.4	2026.4	2051.2	2104.4	2072.5	1990.8
57.5°	1763.8	1753.1	1763.8	1770.8	1774.4	1785.0	1838.3	1884.4	1916.3	1919.9	1820.5
60°	1557.9	1543.7	1557.9	1589.8	1597.0	1604.0	1653.7	1696.3	1724.7	1735.4	1632.4
62.5°	1376.9	1352.1	1376.9	1398.2	1412.4	1430.2	1465.6	1529.6	1554.4	1557.9	1412.4
65°	1185.3	1174.6	1185.3	1227.8	1231.4	1252.7	1291.8	1337.9	1391.1	1384.0	1174.6
67.5°	1011.4	1011.4	1011.4	1039.8	1061.0	1071.7	1121.4	1142.7	1210.1	1217.3	979.5
70°	851.7	848.1	851.7	873.0	887.2	912.1	958.2	983.0	1036.2	1054.0	794.9
72.5°	699.1	695.6	699.1	716.9	731.0	752.3	791.4	819.7	865.9	887.2	617.5
75°	564.2	557.2	564.2	578.5	574.9	603.3	635.2	663.6	706.2	720.4	457.8
77.5°	433.0	433.0	433.0	447.1	447.1	475.5	489.7	525.2	550.1	571.4	337.2
80°	322.9	319.4	322.9	326.5	326.5	340.7	365.6	390.4	411.7	411.7	230.6
82.5°	227.1	220.0	227.1	227.1	227.1	234.2	248.4	255.5	269.7	280.3	145.5
85°	141.9	141.9	141.9	145.5	141.9	149.1	152.6	159.7	159.7	152.6	88.7
87.5°	92.3	88.7	92.3	88.7	88.7	85.1	85.1	85.1	81.7	78.1	49.7
90°	42.4	42.4	42.4	42.4	42.4	56.6	75.5	84.9	73.0	49.2	31.2
92.5°	170.0	136.3	170.0	203.9	212.3	300.9	419.1	478.2	419.8	303.2	215.6
95°	592.7	490.5	592.7	694.9	720.5	946.3	1247.2	1397.6	1180.4	745.9	420.1
97.5°	1420.2	1225.6	1420.2	1614.9	1663.5	1806.1	1996.3	2091.4	1729.1	1004.7	461.4
100°	2046.2	1814.3	2046.2	2278.1	2336.0	2325.7	2311.8	2304.8	1902.8	1098.9	496.0
102.5°	2662.0	2463.5	2662.0	2860.6	2910.3	2728.6	2486.3	2365.1	1957.5	1142.1	530.7
105°	3447.1	3340.4	3447.1	3553.9	3580.6	3173.3	2630.1	2358.4	1963.7	1174.2	582.0
107.5°	3961.5	3987.3	3961.5	3935.6	3929.2	3360.9	2603.2	2224.3	1876.2	1180.1	658.1
110°	4157.6	4268.8	4157.6	4046.4	4018.5	3383.2	2536.2	2112.6	1798.8	1171.2	700.5





TEST NUMBER: P935254

CATALOG NUMBER: SQ4-FA-100U-100D-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°	4175.1	4345.9	4175.1	4004.3	3961.6	3311.4	2444.5	2011.0	1731.2	1171.6	751.9
115°	4064.4	4301.2	4064.4	3827.5	3768.3	3141.9	2306.8	1889.2	1653.6	1182.3	829.0
117.5°	3829.6	4092.3	3829.6	3566.9	3501.3	2936.0	2182.2	1805.4	1605.0	1204.4	903.8
120°	3640.4	3895.7	3640.4	3385.3	3321.4	2804.9	2116.2	1771.9	1588.7	1222.3	947.4
122.5°	3456.2	3707.9	3456.2	3204.5	3141.6	2676.4	2056.3	1746.2	1580.1	1248.0	998.8
125°	3193.4	3425.3	3193.4	2961.5	2903.6	2508.5	1981.7	1718.3	1573.1	1282.5	1064.7
127.5°	2957.1	3152.8	2957.1	2761.4	2712.5	2373.3	1921.0	1694.8	1568.9	1317.2	1128.4
130°	2817.8	2998.6	2817.8	2637.1	2591.9	2289.9	1887.2	1685.9	1571.5	1342.5	1170.8
132.5°	2691.5	2853.4	2691.5	2529.6	2489.1	2218.8	1858.2	1678.0	1573.0	1362.9	1205.4
135°	2518.2	2657.8	2518.2	2378.8	2343.8	2117.4	1815.6	1664.7	1571.5	1385.3	1245.6
137.5°	2379.4	2493.6	2379.4	2265.2	2236.7	2045.3	1790.0	1662.4	1581.2	1418.8	1297.0
140°	2284.1	2390.8	2284.1	2177.3	2150.6	1985.3	1764.7	1654.5	1582.8	1439.3	1331.7
142.5°	2205.1	2296.9	2205.1	2113.2	2090.3	1945.1	1751.4	1654.5	1588.5	1456.4	1357.4
145°	2086.7	2156.2	2086.7	2017.1	1999.8	1881.0	1722.6	1643.4	1588.6	1478.8	1396.5
147.5°	1995.8	2053.4	1995.8	1938.3	1923.8	1830.4	1705.7	1643.4	1599.5	1511.6	1445.7
150°	1938.6	1985.3	1938.6	1891.9	1880.2	1801.3	1696.1	1643.4	1605.2	1528.7	1471.4
152.5°	1889.6	1924.9	1889.6	1854.4	1845.6	1778.2	1688.4	1643.4	1608.9	1539.8	1488.1
155°	1833.4	1856.8	1833.4	1810.1	1804.2	1750.6	1679.2	1643.4	1617.1	1564.5	1525.0
157.5°	1789.0	1805.4	1789.0	1772.6	1768.5	1726.8	1671.2	1643.4	1625.3	1589.1	1561.9
160°	1762.4	1771.9	1762.4	1752.9	1750.6	1714.9	1667.3	1643.4	1629.0	1600.2	1578.6
162.5°	1745.1	1754.0	1745.1	1736.1	1733.9	1703.7	1663.5	1643.4	1633.0	1612.1	1596.4
165°	1720.0	1729.4	1720.0	1710.5	1708.2	1686.6	1657.8	1643.4	1638.7	1629.2	1622.1
167.5°	1702.0	1705.9	1702.0	1698.0	1697.1	1682.9	1664.0	1654.5	1650.6	1642.6	1636.7
170°	1697.1	1697.1	1697.1	1697.1	1697.1	1682.9	1664.0	1654.5	1654.3	1653.8	1653.5
172.5°	1683.7	1680.2	1683.7	1687.2	1688.1	1676.9	1662.0	1654.5	1654.5	1654.5	1654.5
175°	1675.8	1675.8	1675.8	1675.8	1675.8	1668.7	1659.3	1654.5	1656.8	1661.3	1664.7
177.5°	1668.6	1664.7	1668.6	1672.5	1673.5	1668.0	1660.5	1656.8	1658.6	1662.1	1664.7
180°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7



TEST NUMBER: P935254

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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3804.3	3783.0	3783.0	3747.5	3733.3	3722.6	3704.9	3651.7	3637.5	3623.2	3644.5
5°	3836.2	3797.2	3768.8	3704.9	3651.7	3630.4	3563.0	3435.2	3350.0	3286.2	3250.7
7.5°	3843.3	3793.6	3740.3	3641.1	3513.3	3456.5	3250.7	3016.5	2952.6	2895.8	2860.3
10°	3836.2	3779.5	3704.9	3555.8	3254.2	3154.8	2949.0	2796.4	2757.4	2746.7	2757.4
12.5°	3811.3	3758.2	3655.2	3406.8	2984.5	2917.1	2796.4	2707.7	2700.6	2718.3	2814.1
15°	3768.8	3719.1	3598.4	3208.1	2835.5	2785.8	2700.6	2668.7	2707.7	2831.9	3119.4
17.5°	3726.2	3669.4	3520.4	3012.9	2721.9	2686.4	2626.0	2690.0	2909.9	3076.7	3172.6
20°	3669.4	3602.0	3431.6	2870.9	2640.3	2608.3	2579.9	2867.4	3034.2	3094.6	3147.7
22.5°	3602.0	3531.0	3311.0	2771.6	2555.1	2530.2	2548.0	2966.8	3034.2	3076.7	3122.9
25°	3513.3	3452.9	3169.0	2693.5	2487.7	2459.3	2526.7	2956.1	2995.2	3005.8	3098.0
27.5°	3431.6	3353.6	3020.0	2622.5	2406.1	2395.4	2544.5	2909.9	2938.4	2949.0	3048.4
30°	3332.3	3215.2	2853.2	2548.0	2320.9	2317.3	2548.0	2853.2	2846.1	2874.5	2973.9
32.5°	3229.4	3009.3	2665.1	2455.8	2239.3	2235.7	2523.2	2768.0	2761.0	2800.0	2874.5
35°	3133.6	2849.7	2409.6	2349.3	2136.4	2139.9	2462.8	2668.7	2672.2	2707.7	2753.8
37.5°	3034.2	2711.3	2129.2	2232.2	2037.0	2037.0	2381.2	2576.4	2569.3	2579.9	2643.9
40°	2917.1	2494.8	1880.9	2079.5	1944.7	1934.1	2281.9	2477.1	2452.2	2448.7	2537.4
42.5°	2792.8	2257.0	1696.3	1877.3	1838.3	1824.0	2161.2	2356.4	2310.3	2320.9	2434.4
45°	2658.0	2193.2	1554.4	1586.3	1728.2	1717.6	2029.9	2218.0	2186.0	2214.5	2331.6
47.5°	2523.2	2065.4	1508.2	1316.6	1611.1	1607.6	1884.4	2083.1	2065.4	2093.8	2218.0
50°	2338.6	1923.4	1504.7	1128.5	1479.9	1494.0	1710.5	1951.8	1951.8	1976.7	2107.9
52.5°	2100.8	1749.5	1366.2	1022.0	1327.2	1369.8	1557.9	1838.3	1845.3	1870.2	1987.3
55°	1884.4	1568.6	1266.9	940.4	1146.3	1238.5	1408.9	1721.1	1735.4	1760.2	1866.6
57.5°	1685.7	1305.9	1245.6	844.6	979.5	1068.2	1277.5	1607.6	1614.7	1636.0	1738.9
60°	1472.7	943.9	1142.7	741.7	834.0	901.4	1156.9	1472.7	1497.6	1511.7	1600.5
62.5°	1231.4	684.9	1036.2	670.7	763.0	777.2	1057.5	1344.9	1376.9	1387.6	1440.8
65°	876.5	574.9	880.1	610.4	688.5	692.0	951.1	1213.7	1242.1	1259.8	1298.8
67.5°	592.6	468.4	670.7	553.6	631.6	635.2	848.1	1061.0	1100.1	1114.3	1139.2
70°	411.7	312.3	496.8	493.3	567.8	574.9	738.2	922.7	958.2	968.8	983.0
72.5°	301.6	251.9	411.7	443.6	500.4	507.5	624.6	766.6	802.0	812.7	819.7
75°	230.6	266.2	333.6	386.8	425.8	429.4	511.0	624.6	649.5	656.5	660.0
77.5°	184.5	248.4	244.9	312.3	347.7	340.7	401.0	482.7	503.9	503.9	503.9
80°	138.4	195.2	184.5	223.6	255.5	248.4	287.5	344.2	351.3	358.4	354.9
82.5°	102.9	124.2	124.2	141.9	170.4	163.2	191.6	223.6	223.6	223.6	230.6
85°	63.8	71.0	56.8	74.5	95.8	92.3	106.5	120.7	124.2	124.2	117.1
87.5°	39.0	32.0	17.7	28.4	42.6	42.6	49.7	53.3	49.7	49.7	49.7
90°	29.0	20.1	11.2	20.1	29.0	31.2	49.2	73.0	84.9	75.5	56.6
92.5°	196.6	120.6	44.7	120.6	196.6	215.6	303.2	419.8	478.2	419.1	300.9
95°	385.3	246.3	107.3	246.3	385.3	420.1	745.9	1180.4	1397.6	1247.2	946.3
97.5°	430.7	308.1	185.4	308.1	430.7	461.4	1004.7	1729.1	2091.4	1996.3	1806.1
100°	468.2	357.0	245.8	357.0	468.2	496.0	1098.9	1902.8	2304.8	2311.8	2325.7
102.5°	504.7	400.9	297.2	400.9	504.7	530.7	1142.1	1957.5	2365.1	2486.3	2728.6
105°	560.1	472.2	384.4	472.2	560.1	582.0	1174.2	1963.7	2358.4	2630.1	3173.3
107.5°	637.6	555.6	473.7	555.6	637.6	658.1	1180.1	1876.2	2224.3	2603.2	3360.9
110°	682.0	608.0	534.1	608.0	682.0	700.5	1171.2	1798.8	2112.6	2536.2	3383.2



TEST NUMBER: P935254

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	734.2	663.8	593.2	663.8	734.2	751.9	1171.6	1731.2	2011.0	2444.5	3311.4
115°	812.7	747.7	682.6	747.7	812.7	829.0	1182.3	1653.6	1889.2	2306.8	3141.9
117.5°	889.0	830.0	770.9	830.0	889.0	903.8	1204.4	1605.0	1805.4	2182.2	2936.0
120°	933.5	877.9	822.3	877.9	933.5	947.4	1222.3	1588.7	1771.9	2116.2	2804.9
122.5°	984.8	928.7	872.6	928.7	984.8	998.8	1248.0	1580.1	1746.2	2056.3	2676.4
125°	1051.9	1000.8	949.7	1000.8	1051.9	1064.7	1282.5	1573.1	1718.3	1981.7	2508.5
127.5°	1115.5	1063.8	1012.2	1063.8	1115.5	1128.4	1317.2	1568.9	1694.8	1921.0	2373.3
130°	1156.9	1101.3	1045.7	1101.3	1156.9	1170.8	1342.5	1571.5	1685.9	1887.2	2289.9
132.5°	1191.6	1136.0	1080.4	1136.0	1191.6	1205.4	1362.9	1573.0	1678.0	1858.2	2218.8
135°	1233.0	1182.3	1131.8	1182.3	1233.0	1245.6	1385.3	1571.5	1664.7	1815.6	2117.4
137.5°	1284.5	1234.4	1184.2	1234.4	1284.5	1297.0	1418.8	1581.2	1662.4	1790.0	2045.3
140°	1320.1	1274.0	1227.8	1274.0	1320.1	1331.7	1439.3	1582.8	1654.5	1764.7	1985.3
142.5°	1346.7	1304.0	1261.3	1304.0	1346.7	1357.4	1456.4	1588.5	1654.5	1751.4	1945.1
145°	1387.2	1350.0	1312.7	1350.0	1387.2	1396.5	1478.8	1588.6	1643.4	1722.6	1881.0
147.5°	1436.6	1400.4	1364.1	1400.4	1436.6	1445.7	1511.6	1599.5	1643.4	1705.7	1830.4
150°	1463.1	1430.4	1397.6	1430.4	1463.1	1471.4	1528.7	1605.2	1643.4	1696.1	1801.3
152.5°	1481.9	1457.0	1432.2	1457.0	1481.9	1488.1	1539.8	1608.9	1643.4	1688.4	1778.2
155°	1520.4	1502.0	1483.6	1502.0	1520.4	1525.0	1564.5	1617.1	1643.4	1679.2	1750.6
157.5°	1557.4	1539.5	1521.6	1539.5	1557.4	1561.9	1589.1	1625.3	1643.4	1671.2	1726.8
160°	1575.1	1561.2	1547.3	1561.2	1575.1	1578.6	1600.2	1629.0	1643.4	1667.3	1714.9
162.5°	1593.8	1583.4	1573.0	1583.4	1593.8	1596.4	1612.1	1633.0	1643.4	1663.5	1703.7
165°	1619.8	1610.3	1600.9	1610.3	1619.8	1622.1	1629.2	1638.7	1643.4	1657.8	1686.6
167.5°	1635.6	1631.1	1626.6	1631.1	1635.6	1636.7	1642.6	1650.6	1654.5	1664.0	1682.9
170°	1652.4	1647.9	1643.4	1647.9	1652.4	1653.5	1653.8	1654.3	1654.5	1664.0	1682.9
172.5°	1654.3	1653.3	1652.3	1653.3	1654.3	1654.5	1654.5	1654.5	1654.5	1662.0	1676.9
175°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1661.3	1656.8	1654.5	1659.3	1668.7
177.5°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1662.1	1658.6	1656.8	1660.5	1668.0
180°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7



TEST NUMBER: P935254

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3619.7	3609.1	3623.2	3584.2	3623.2	3609.1	3619.7	3644.5	3623.2	3637.5	3651.7
5°	3176.1	3158.4	3101.6	3055.5	3101.6	3158.4	3176.1	3250.7	3286.2	3350.0	3435.2
7.5°	2839.0	2824.8	2810.7	2782.2	2810.7	2824.8	2839.0	2860.3	2895.8	2952.6	3016.5
10°	2764.5	2768.0	2789.3	2785.8	2789.3	2768.0	2764.5	2757.4	2746.7	2757.4	2796.4
12.5°	2956.1	2988.0	3105.1	3098.0	3105.1	2988.0	2956.1	2814.1	2718.3	2700.6	2707.7
15°	3176.1	3186.8	3211.7	3215.2	3211.7	3186.8	3176.1	3119.4	2831.9	2707.7	2668.7
17.5°	3197.4	3201.0	3218.7	3218.7	3218.7	3201.0	3197.4	3172.6	3076.7	2909.9	2690.0
20°	3179.7	3186.8	3222.2	3229.4	3222.2	3186.8	3179.7	3147.7	3094.6	3034.2	2867.4
22.5°	3172.6	3186.8	3215.2	3211.7	3215.2	3186.8	3172.6	3122.9	3076.7	3034.2	2966.8
25°	3137.1	3137.1	3140.7	3144.2	3140.7	3137.1	3137.1	3098.0	3005.8	2995.2	2956.1
27.5°	3062.6	3069.7	3091.0	3087.4	3091.0	3069.7	3062.6	3048.4	2949.0	2938.4	2909.9
30°	2995.2	2988.0	2970.3	2956.1	2970.3	2988.0	2995.2	2973.9	2874.5	2846.1	2853.2
32.5°	2881.6	2863.8	2846.1	2835.5	2846.1	2863.8	2881.6	2874.5	2800.0	2761.0	2768.0
35°	2746.7	2750.3	2746.7	2736.1	2746.7	2750.3	2746.7	2753.8	2707.7	2672.2	2668.7
37.5°	2650.9	2658.0	2654.5	2640.3	2654.5	2658.0	2650.9	2643.9	2579.9	2569.3	2576.4
40°	2551.5	2555.1	2551.5	2540.9	2551.5	2555.1	2551.5	2537.4	2448.7	2452.2	2477.1
42.5°	2455.8	2452.2	2441.5	2434.4	2441.5	2452.2	2455.8	2434.4	2320.9	2310.3	2356.4
45°	2345.7	2349.3	2328.0	2317.3	2328.0	2349.3	2345.7	2331.6	2214.5	2186.0	2218.0
47.5°	2235.7	2235.7	2218.0	2207.3	2218.0	2235.7	2235.7	2218.0	2093.8	2065.4	2083.1
50°	2118.6	2115.1	2090.2	2086.7	2090.2	2115.1	2118.6	2107.9	1976.7	1951.8	1951.8
52.5°	1983.7	1983.7	1987.3	1994.4	1987.3	1983.7	1983.7	1987.3	1870.2	1845.3	1838.3
55°	1866.6	1870.2	1895.0	1902.1	1895.0	1870.2	1866.6	1866.6	1760.2	1735.4	1721.1
57.5°	1745.9	1745.9	1763.8	1763.8	1763.8	1745.9	1745.9	1738.9	1636.0	1614.7	1607.6
60°	1607.6	1614.7	1628.8	1625.3	1628.8	1614.7	1607.6	1600.5	1511.7	1497.6	1472.7
62.5°	1462.0	1469.2	1472.7	1465.6	1472.7	1469.2	1462.0	1440.8	1387.6	1376.9	1344.9
65°	1309.5	1316.6	1320.1	1313.1	1320.1	1316.6	1309.5	1298.8	1259.8	1242.1	1213.7
67.5°	1153.3	1149.8	1146.3	1160.4	1146.3	1149.8	1153.3	1139.2	1114.3	1100.1	1061.0
70°	993.6	993.6	990.1	997.2	990.1	993.6	993.6	983.0	968.8	958.2	922.7
72.5°	823.3	819.7	834.0	823.3	834.0	819.7	823.3	819.7	812.7	802.0	766.6
75°	656.5	663.6	656.5	667.2	656.5	663.6	656.5	660.0	656.5	649.5	624.6
77.5°	500.4	507.5	500.4	500.4	500.4	507.5	500.4	503.9	503.9	503.9	482.7
80°	354.9	351.3	351.3	347.7	351.3	351.3	354.9	354.9	358.4	351.3	344.2
82.5°	227.1	223.6	223.6	230.6	223.6	223.6	227.1	230.6	223.6	223.6	223.6
85°	124.2	127.8	120.7	120.7	120.7	127.8	124.2	117.1	124.2	124.2	120.7
87.5°	46.1	42.6	42.6	42.6	42.6	42.6	46.1	49.7	49.7	49.7	53.3
90°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	56.6	75.5	84.9	73.0
92.5°	212.3	203.9	170.0	136.3	170.0	203.9	212.3	300.9	419.1	478.2	419.8
95°	720.5	694.9	592.7	490.5	592.7	694.9	720.5	946.3	1247.2	1397.6	1180.4
97.5°	1663.5	1614.9	1420.2	1225.6	1420.2	1614.9	1663.5	1806.1	1996.3	2091.4	1729.1
100°	2336.0	2278.1	2046.2	1814.3	2046.2	2278.1	2336.0	2325.7	2311.8	2304.8	1902.8
102.5°	2910.3	2860.6	2662.0	2463.5	2662.0	2860.6	2910.3	2728.6	2486.3	2365.1	1957.5
105°	3580.6	3553.9	3447.1	3340.4	3447.1	3553.9	3580.6	3173.3	2630.1	2358.4	1963.7
107.5°	3929.2	3935.6	3961.5	3987.3	3961.5	3935.6	3929.2	3360.9	2603.2	2224.3	1876.2
110°	4018.5	4046.4	4157.6	4268.8	4157.6	4046.4	4018.5	3383.2	2536.2	2112.6	1798.8



TEST NUMBER: P935254

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3961.6	4004.3	4175.1	4345.9	4175.1	4004.3	3961.6	3311.4	2444.5	2011.0	1731.2
115°	3768.3	3827.5	4064.4	4301.2	4064.4	3827.5	3768.3	3141.9	2306.8	1889.2	1653.6
117.5°	3501.3	3566.9	3829.6	4092.3	3829.6	3566.9	3501.3	2936.0	2182.2	1805.4	1605.0
120°	3321.4	3385.3	3640.4	3895.7	3640.4	3385.3	3321.4	2804.9	2116.2	1771.9	1588.7
122.5°	3141.6	3204.5	3456.2	3707.9	3456.2	3204.5	3141.6	2676.4	2056.3	1746.2	1580.1
125°	2903.6	2961.5	3193.4	3425.3	3193.4	2961.5	2903.6	2508.5	1981.7	1718.3	1573.1
127.5°	2712.5	2761.4	2957.1	3152.8	2957.1	2761.4	2712.5	2373.3	1921.0	1694.8	1568.9
130°	2591.9	2637.1	2817.8	2998.6	2817.8	2637.1	2591.9	2289.9	1887.2	1685.9	1571.5
132.5°	2489.1	2529.6	2691.5	2853.4	2691.5	2529.6	2489.1	2218.8	1858.2	1678.0	1573.0
135°	2343.8	2378.8	2518.2	2657.8	2518.2	2378.8	2343.8	2117.4	1815.6	1664.7	1571.5
137.5°	2236.7	2265.2	2379.4	2493.6	2379.4	2265.2	2236.7	2045.3	1790.0	1662.4	1581.2
140°	2150.6	2177.3	2284.1	2390.8	2284.1	2177.3	2150.6	1985.3	1764.7	1654.5	1582.8
142.5°	2090.3	2113.2	2205.1	2296.9	2205.1	2113.2	2090.3	1945.1	1751.4	1654.5	1588.5
145°	1999.8	2017.1	2086.7	2156.2	2086.7	2017.1	1999.8	1881.0	1722.6	1643.4	1588.6
147.5°	1923.8	1938.3	1995.8	2053.4	1995.8	1938.3	1923.8	1830.4	1705.7	1643.4	1599.5
150°	1880.2	1891.9	1938.6	1985.3	1938.6	1891.9	1880.2	1801.3	1696.1	1643.4	1605.2
152.5°	1845.6	1854.4	1889.6	1924.9	1889.6	1854.4	1845.6	1778.2	1688.4	1643.4	1608.9
155°	1804.2	1810.1	1833.4	1856.8	1833.4	1810.1	1804.2	1750.6	1679.2	1643.4	1617.1
157.5°	1768.5	1772.6	1789.0	1805.4	1789.0	1772.6	1768.5	1726.8	1671.2	1643.4	1625.3
160°	1750.6	1752.9	1762.4	1771.9	1762.4	1752.9	1750.6	1714.9	1667.3	1643.4	1629.0
162.5°	1733.9	1736.1	1745.1	1754.0	1745.1	1736.1	1733.9	1703.7	1663.5	1643.4	1633.0
165°	1708.2	1710.5	1720.0	1729.4	1720.0	1710.5	1708.2	1686.6	1657.8	1643.4	1638.7
167.5°	1697.1	1698.0	1702.0	1705.9	1702.0	1698.0	1697.1	1682.9	1664.0	1654.5	1650.6
170°	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1	1682.9	1664.0	1654.5	1654.3
172.5°	1688.1	1687.2	1683.7	1680.2	1683.7	1687.2	1688.1	1676.9	1662.0	1654.5	1654.5
175°	1675.8	1675.8	1675.8	1675.8	1675.8	1675.8	1675.8	1668.7	1659.3	1654.5	1656.8
177.5°	1673.5	1672.5	1668.6	1664.7	1668.6	1672.5	1673.5	1668.0	1660.5	1656.8	1658.6
180°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7



TEST NUMBER: P935254

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3704.9	3722.6	3733.3	3747.5	3783.0
5°	3563.0	3630.4	3651.7	3704.9	3768.8
7.5°	3250.7	3456.5	3513.3	3641.1	3740.3
10°	2949.0	3154.8	3254.2	3555.8	3704.9
12.5°	2796.4	2917.1	2984.5	3406.8	3655.2
15°	2700.6	2785.8	2835.5	3208.1	3598.4
17.5°	2626.0	2686.4	2721.9	3012.9	3520.4
20°	2579.9	2608.3	2640.3	2870.9	3431.6
22.5°	2548.0	2530.2	2555.1	2771.6	3311.0
25°	2526.7	2459.3	2487.7	2693.5	3169.0
27.5°	2544.5	2395.4	2406.1	2622.5	3020.0
30°	2548.0	2317.3	2320.9	2548.0	2853.2
32.5°	2523.2	2235.7	2239.3	2455.8	2665.1
35°	2462.8	2139.9	2136.4	2349.3	2409.6
37.5°	2381.2	2037.0	2037.0	2232.2	2129.2
40°	2281.9	1934.1	1944.7	2079.5	1880.9
42.5°	2161.2	1824.0	1838.3	1877.3	1696.3
45°	2029.9	1717.6	1728.2	1586.3	1554.4
47.5°	1884.4	1607.6	1611.1	1316.6	1508.2
50°	1710.5	1494.0	1479.9	1128.5	1504.7
52.5°	1557.9	1369.8	1327.2	1022.0	1366.2
55°	1408.9	1238.5	1146.3	940.4	1266.9
57.5°	1277.5	1068.2	979.5	844.6	1245.6
60°	1156.9	901.4	834.0	741.7	1142.7
62.5°	1057.5	777.2	763.0	670.7	1036.2
65°	951.1	692.0	688.5	610.4	880.1
67.5°	848.1	635.2	631.6	553.6	670.7
70°	738.2	574.9	567.8	493.3	496.8
72.5°	624.6	507.5	500.4	443.6	411.7
75°	511.0	429.4	425.8	386.8	333.6
77.5°	401.0	340.7	347.7	312.3	244.9
80°	287.5	248.4	255.5	223.6	184.5
82.5°	191.6	163.2	170.4	141.9	124.2
85°	106.5	92.3	95.8	74.5	56.8
87.5°	49.7	42.6	42.6	28.4	17.7
90°	49.2	31.2	29.0	20.1	11.2
92.5°	303.2	215.6	196.6	120.6	44.7
95°	745.9	420.1	385.3	246.3	107.3
97.5°	1004.7	461.4	430.7	308.1	185.4
100°	1098.9	496.0	468.2	357.0	245.8
102.5°	1142.1	530.7	504.7	400.9	297.2
105°	1174.2	582.0	560.1	472.2	384.4
107.5°	1180.1	658.1	637.6	555.6	473.7
110°	1171.2	700.5	682.0	608.0	534.1



TEST NUMBER: P935254

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1171.6	751.9	734.2	663.8	593.2
115°	1182.3	829.0	812.7	747.7	682.6
117.5°	1204.4	903.8	889.0	830.0	770.9
120°	1222.3	947.4	933.5	877.9	822.3
122.5°	1248.0	998.8	984.8	928.7	872.6
125°	1282.5	1064.7	1051.9	1000.8	949.7
127.5°	1317.2	1128.4	1115.5	1063.8	1012.2
130°	1342.5	1170.8	1156.9	1101.3	1045.7
132.5°	1362.9	1205.4	1191.6	1136.0	1080.4
135°	1385.3	1245.6	1233.0	1182.3	1131.8
137.5°	1418.8	1297.0	1284.5	1234.4	1184.2
140°	1439.3	1331.7	1320.1	1274.0	1227.8
142.5°	1456.4	1357.4	1346.7	1304.0	1261.3
145°	1478.8	1396.5	1387.2	1350.0	1312.7
147.5°	1511.6	1445.7	1436.6	1400.4	1364.1
150°	1528.7	1471.4	1463.1	1430.4	1397.6
152.5°	1539.8	1488.1	1481.9	1457.0	1432.2
155°	1564.5	1525.0	1520.4	1502.0	1483.6
157.5°	1589.1	1561.9	1557.4	1539.5	1521.6
160°	1600.2	1578.6	1575.1	1561.2	1547.3
162.5°	1612.1	1596.4	1593.8	1583.4	1573.0
165°	1629.2	1622.1	1619.8	1610.3	1600.9
167.5°	1642.6	1636.7	1635.6	1631.1	1626.6
170°	1653.8	1653.5	1652.4	1647.9	1643.4
172.5°	1654.5	1654.5	1654.3	1653.3	1652.3
175°	1661.3	1664.7	1664.7	1664.7	1664.7
177.5°	1662.1	1664.7	1664.7	1664.7	1664.7
180°	1664.7	1664.7	1664.7	1664.7	1664.7



TEST NUMBER: P935254  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.09	13.92	14.06	14.92	16.22	15.94	16.77	16.91	17.77	19.07
	3H	13.56	14.31	14.55	15.31	16.64	17.29	18.04	18.28	19.04	20.37
	4H	13.75	14.46	14.75	15.47	16.80	17.73	18.45	18.74	19.45	20.79
	6H	13.87	14.52	14.88	15.53	16.88	18.02	18.68	19.04	19.69	21.04
	8H	13.87	14.49	14.89	15.52	16.86	18.10	18.72	19.12	19.75	21.10
	12H	13.84	14.43	14.86	15.45	16.82	18.14	18.73	19.17	19.75	21.12
4H	2H	14.12	14.83	15.13	15.84	17.17	16.34	17.05	17.35	18.06	19.39
	3H	15.14	15.74	16.16	16.77	18.12	17.85	18.44	18.87	19.48	20.83
	4H	15.42	15.96	16.45	16.99	18.36	18.38	18.93	19.41	19.95	21.32
	6H	15.54	16.01	16.58	17.06	18.43	18.75	19.22	19.79	20.27	21.64
	8H	15.55	15.98	16.59	17.03	18.41	18.86	19.30	19.90	20.34	21.72
	12H	15.51	15.91	16.57	16.96	18.36	18.92	19.31	19.98	20.37	21.76
8H	4H	15.88	16.31	16.91	17.35	18.74	18.51	18.94	19.54	19.98	21.37
	6H	16.14	16.50	17.20	17.58	18.96	18.95	19.31	20.01	20.39	21.77
	8H	16.18	16.49	17.25	17.56	18.96	19.10	19.42	20.17	20.49	21.89
	12H	16.16	16.44	17.23	17.50	18.95	19.20	19.48	20.28	20.54	21.99
12H	4H	15.88	16.27	16.94	17.33	18.72	18.47	18.86	19.52	19.92	21.31
	6H	16.20	16.51	17.27	17.58	18.98	18.94	19.26	20.01	20.33	21.73
	8H	16.26	16.54	17.34	17.60	19.05	19.11	19.39	20.18	20.45	21.89