

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: P935153

Luminaire Tested: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

**Test Information**

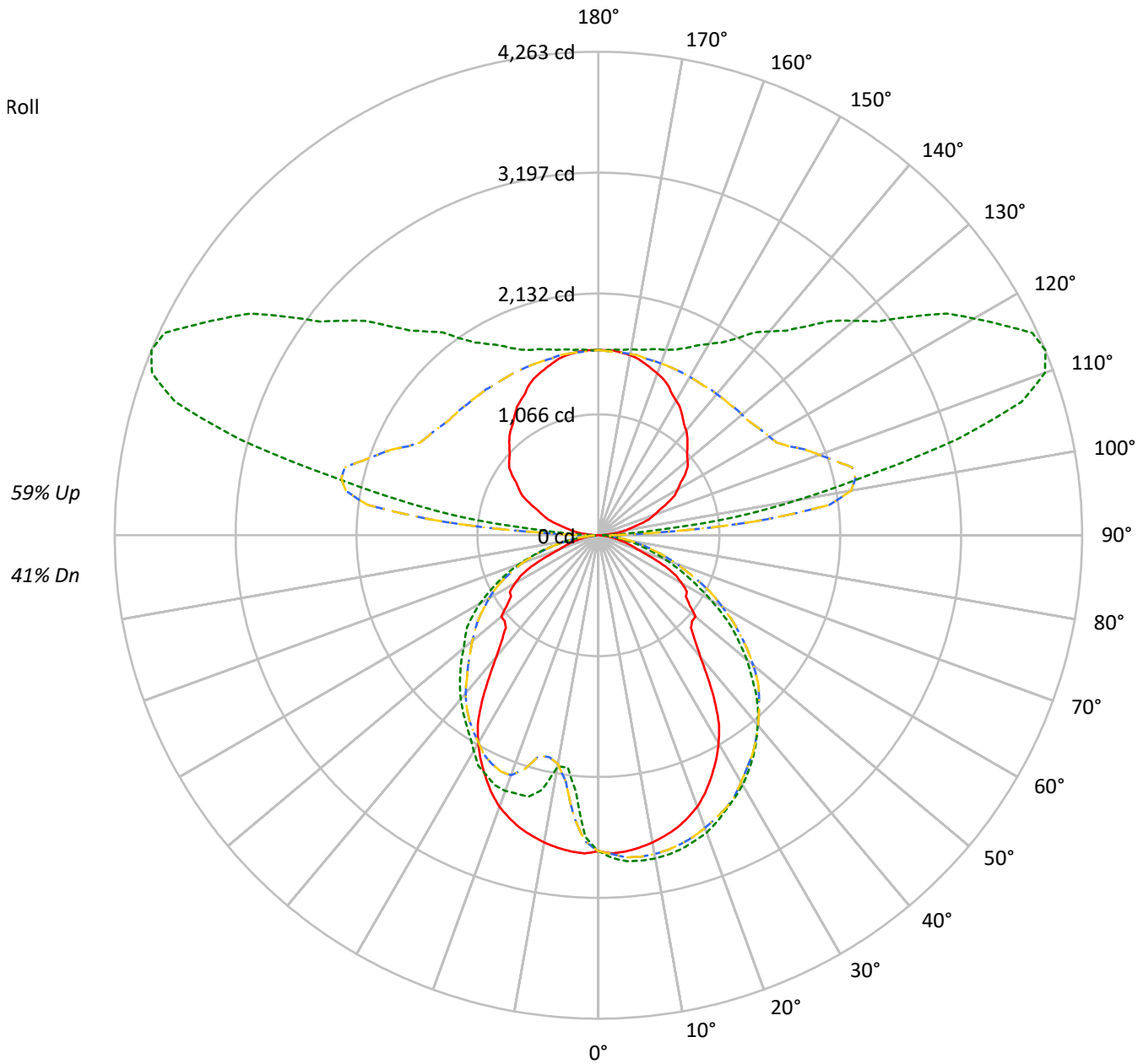
Test Method: LM-79-2019  
Report Number: P935153  
REPORT IS A COMBINATION OF REPORTS P933741 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-12-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17813.6 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 147.6  
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



— 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	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

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

	0°	90°	180°	270°
0°	8615	8615	8615	8615
5°	8682	8696	8682	6838
10°	8627	8566	8627	6124
15°	8537	8381	8537	6998
20°	8362	8161	8362	7012
25°	8000	7840	8000	6864
30°	7530	7574	7530	6538
35°	6716	7237	6716	6179
40°	5600	6840	5600	5908
45°	5007	6377	5007	5597
50°	5323	5823	5323	5284
55°	5013	5227	5013	5103
60°	5174	4439	5174	4674
65°	4699	3670	4699	4102
70°	3261	2924	3261	3438
75°	2871	2162	2871	2589
80°	2330	1429	2330	1556
85°	1367	757	1367	644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7668 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.4	1.4
10°-20°	713.8	4.0
20°-30°	1103.4	6.2
30°-40°	1317.2	7.4
40°-50°	1325.0	7.4
50°-60°	1152.9	6.5
60°-70°	817.4	4.6
70°-80°	432.5	2.4
80°-90°	113.9	0.6
90°-100°	796.0	4.5
100°-110°	2092.7	11.7
110°-120°	2170.0	12.2
120°-130°	1740.6	9.8
130°-140°	1365.7	7.7
140°-150°	1048.2	5.9
150°-160°	754.9	4.2
160°-170°	461.9	2.6
170°-180°	156.1	0.9
0°-30°	2068.7	11.6
0°-40°	3385.9	19.0
0°-60°	5863.8	32.9
0°-90°	7227.6	40.6
90°-120°	5058.7	28.4
90°-150°	9213.2	51.7
90°-180°	10586.0	59.4
0°-180°	17813.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2785	2785	2785	2785	2785	
5°	2798	2885	2798	2269	2798	265
15°	2672	2859	2672	2387	2672	752
25°	2353	2667	2353	2335	2353	1080
35°	1789	2379	1789	2032	1789	1107
45°	1154	1960	1154	1721	1154	924
55°	941	1447	941	1412	941	864
65°	654	872	654	975	654	625
75°	248	414	248	495	248	260
85°	42	105	42	90	42	57
90°	11	42	11	42	11	11
95°	105	481	105	481	105	117
105°	377	3277	377	3277	377	400
115°	670	4219	670	4219	670	661
125°	932	3360	932	3360	932	827
135°	1110	2607	1110	2607	1110	859
145°	1288	2115	1288	2115	1288	807
155°	1455	1822	1455	1822	1455	669
165°	1570	1696	1570	1696	1570	443
175°	1633	1644	1633	1644	1633	155
180°	1633	1633	1633	1633	1633	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2808.9	2808.9	2824.7	2830.0	2830.0	2822.1	2814.2	2822.1	2845.8	2853.7	2851.1
5°	2798.4	2819.4	2848.4	2853.7	2859.0	2856.3	2851.1	2856.3	2882.7	2887.9	2890.6
7.5°	2777.3	2816.8	2853.7	2861.6	2869.5	2861.6	2859.0	2864.2	2890.6	2895.8	2895.8
10°	2750.9	2806.3	2848.4	2853.7	2861.6	2853.7	2853.7	2864.2	2890.6	2895.8	2898.5
12.5°	2714.0	2790.5	2830.0	2835.2	2845.8	2843.1	2840.5	2851.1	2877.4	2882.7	2882.7
15°	2671.9	2761.5	2798.4	2803.6	2822.1	2816.8	2816.8	2827.3	2856.3	2864.2	2861.6
17.5°	2613.9	2724.6	2766.7	2774.6	2787.8	2785.2	2787.8	2798.4	2824.7	2830.0	2832.6
20°	2548.0	2674.5	2724.6	2732.5	2745.7	2745.7	2745.7	2758.8	2785.2	2795.7	2795.7
22.5°	2458.5	2621.8	2674.5	2679.8	2695.6	2695.6	2700.9	2719.3	2743.0	2745.7	2745.7
25°	2353.1	2563.8	2608.6	2624.5	2640.3	2648.2	2656.1	2666.6	2674.5	2671.9	2674.5
27.5°	2242.3	2490.1	2548.0	2558.6	2579.7	2587.6	2598.1	2600.7	2603.4	2611.3	2606.0
30°	2118.5	2387.3	2474.3	2484.8	2519.1	2524.3	2513.8	2519.1	2532.2	2537.5	2542.8
32.5°	1978.8	2234.4	2397.8	2421.6	2453.2	2437.4	2434.7	2442.6	2463.7	2463.7	2469.0
35°	1789.1	2115.8	2326.7	2347.8	2371.5	2353.1	2363.6	2366.2	2379.4	2387.3	2384.7
37.5°	1580.9	2013.1	2252.8	2268.7	2287.1	2263.4	2279.2	2287.1	2297.6	2292.4	2292.4
40°	1396.5	1852.3	2165.9	2176.4	2192.2	2173.8	2189.6	2194.9	2200.1	2194.9	2192.2
42.5°	1259.5	1675.8	2073.7	2086.8	2076.3	2089.5	2094.7	2105.3	2097.4	2086.8	2086.8
45°	1154.1	1628.4	1973.5	1989.4	1973.5	1994.6	2002.5	2002.5	1978.8	1973.5	1970.9
47.5°	1119.8	1533.5	1873.4	1873.4	1865.5	1891.9	1905.0	1886.6	1862.9	1855.0	1855.0
50°	1117.2	1428.1	1736.4	1725.9	1762.8	1794.4	1781.2	1762.8	1744.3	1715.3	1715.3
52.5°	1014.4	1299.0	1559.9	1599.4	1657.4	1675.8	1654.7	1636.3	1604.7	1591.5	1580.9
55°	940.7	1164.6	1399.1	1478.2	1538.8	1562.5	1523.0	1504.5	1457.1	1449.2	1443.9
57.5°	924.9	969.6	1251.6	1351.7	1425.5	1422.8	1399.1	1364.9	1325.4	1317.5	1314.8
60°	848.4	700.9	1093.5	1212.1	1288.5	1280.6	1259.5	1227.9	1191.0	1185.7	1180.4
62.5°	769.4	508.5	914.3	1048.7	1156.7	1154.1	1135.6	1088.2	1061.9	1048.7	1038.2
65°	653.5	426.9	650.8	872.2	1027.6	1032.9	993.4	959.1	930.1	914.3	911.7
67.5°	498.0	347.8	440.0	727.2	903.8	898.5	848.4	832.6	795.7	787.8	772.0
70°	368.9	231.9	305.6	590.2	782.6	769.4	729.9	711.4	677.2	658.7	648.2
72.5°	305.6	187.1	224.0	458.5	658.7	642.9	608.7	587.6	558.6	542.8	532.3
75°	247.7	197.6	171.3	339.9	534.9	524.3	492.7	471.6	447.9	426.9	429.5
77.5°	181.8	184.4	137.0	250.3	424.2	408.4	390.0	363.6	353.1	332.0	332.0
80°	137.0	144.9	102.8	171.3	305.6	305.6	289.8	271.4	253.0	242.4	242.4
82.5°	92.2	92.2	76.4	108.0	208.2	200.3	189.7	184.4	173.9	168.6	168.6
85°	42.2	52.7	47.4	65.9	113.3	118.6	118.6	113.3	110.7	105.4	108.0
87.5°	13.2	23.7	29.0	36.9	58.0	60.6	63.2	63.2	63.2	65.9	65.9
90°	11.0	19.8	28.5	30.7	48.2	71.6	83.3	74.0	55.5	41.6	41.6
92.5°	43.8	118.3	192.9	211.5	297.4	411.8	469.1	411.1	295.2	208.2	200.0
95°	105.2	241.6	378.0	412.1	731.7	1158.0	1371.0	1223.5	928.3	706.9	681.7
97.5°	181.9	302.2	422.6	452.7	985.6	1696.3	2051.6	1958.3	1771.8	1631.9	1584.2
100°	241.1	350.2	459.3	486.6	1078.0	1866.7	2261.0	2267.9	2281.5	2291.7	2234.8
102.5°	291.5	393.3	495.1	520.6	1120.4	1920.3	2320.2	2439.0	2676.7	2855.0	2806.3
105°	377.1	463.2	549.5	571.0	1151.9	1926.4	2313.6	2580.1	3113.0	3512.6	3486.4
107.5°	464.7	545.1	625.4	645.6	1157.7	1840.6	2182.1	2553.7	3297.1	3854.5	3860.8
110°	523.9	596.5	669.0	687.2	1148.9	1764.6	2072.4	2488.0	3318.9	3942.2	3969.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	582.0	651.2	720.3	737.6	1149.3	1698.3	1972.8	2398.0	3248.5	3886.3	3928.2
115°	669.6	733.5	797.2	813.2	1159.9	1622.1	1853.3	2262.9	3082.2	3696.7	3754.7
117.5°	756.2	814.2	872.2	886.6	1181.5	1574.5	1771.1	2140.8	2880.2	3434.8	3499.2
120°	806.6	861.2	915.8	929.4	1199.1	1558.5	1738.2	2076.0	2751.6	3258.3	3320.9
122.5°	856.0	911.1	966.0	979.8	1224.3	1550.1	1713.0	2017.2	2625.6	3081.9	3143.6
125°	931.6	981.8	1031.9	1044.5	1258.2	1543.2	1685.6	1944.0	2460.8	2848.4	2905.2
127.5°	992.9	1043.6	1094.3	1106.9	1292.2	1539.1	1662.6	1884.5	2328.2	2661.0	2708.9
130°	1025.9	1080.4	1134.9	1148.6	1317.0	1541.6	1653.8	1851.4	2246.4	2542.7	2587.0
132.5°	1059.8	1114.4	1168.9	1182.5	1337.0	1543.1	1646.1	1822.9	2176.6	2441.9	2481.6
135°	1110.3	1159.9	1209.6	1222.0	1359.0	1541.7	1633.0	1781.1	2077.2	2299.3	2333.6
137.5°	1161.7	1210.9	1260.1	1272.4	1391.8	1551.2	1630.8	1756.0	2006.4	2194.2	2222.2
140°	1204.5	1249.8	1295.1	1306.4	1412.0	1552.7	1623.1	1731.2	1947.5	2109.8	2135.9
142.5°	1237.4	1279.2	1321.1	1331.6	1428.7	1558.3	1623.1	1718.1	1908.1	2050.6	2073.1
145°	1287.8	1324.3	1360.8	1370.0	1450.7	1558.4	1612.2	1689.9	1845.2	1961.8	1978.8
147.5°	1338.2	1373.8	1409.3	1418.2	1482.8	1569.1	1612.2	1673.3	1795.6	1887.3	1901.4
150°	1371.0	1403.2	1435.3	1443.4	1499.7	1574.7	1612.2	1663.9	1767.1	1844.5	1855.9
152.5°	1405.0	1429.3	1453.8	1459.8	1510.6	1578.3	1612.2	1656.3	1744.4	1810.5	1819.1
155°	1455.4	1473.4	1491.5	1496.0	1534.7	1586.4	1612.2	1647.3	1717.3	1770.0	1775.7
157.5°	1492.7	1510.2	1527.8	1532.2	1558.9	1594.5	1612.2	1639.4	1694.0	1734.9	1738.9
160°	1517.9	1531.6	1545.2	1548.6	1569.8	1598.1	1612.2	1635.6	1682.3	1717.3	1719.6
162.5°	1543.1	1553.3	1563.6	1566.1	1581.5	1601.9	1612.2	1631.9	1671.3	1700.9	1703.1
165°	1570.5	1579.7	1589.0	1591.3	1598.2	1607.6	1612.2	1626.3	1654.5	1675.7	1678.0
167.5°	1595.7	1600.1	1604.5	1605.6	1611.4	1619.2	1623.1	1632.4	1650.9	1664.8	1665.8
170°	1612.2	1616.6	1621.0	1622.0	1622.4	1622.8	1623.1	1632.4	1650.9	1664.8	1664.8
172.5°	1620.9	1621.9	1622.8	1623.1	1623.1	1623.1	1623.1	1630.4	1645.1	1656.0	1655.2
175°	1633.0	1633.0	1633.0	1633.0	1629.7	1625.3	1623.1	1627.8	1637.0	1643.9	1643.9
177.5°	1633.0	1633.0	1633.0	1633.0	1630.5	1627.1	1625.3	1629.0	1636.3	1641.7	1640.8
180°	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2856.3	2848.4	2856.3	2851.1	2853.7	2845.8	2822.1	2814.2	2822.1	2830.0	2830.0
5°	2890.6	2885.3	2890.6	2890.6	2887.9	2882.7	2856.3	2851.1	2856.3	2859.0	2853.7
7.5°	2901.1	2893.2	2901.1	2895.8	2895.8	2890.6	2864.2	2859.0	2861.6	2869.5	2861.6
10°	2901.1	2893.2	2901.1	2898.5	2895.8	2890.6	2864.2	2853.7	2853.7	2861.6	2853.7
12.5°	2887.9	2882.7	2887.9	2882.7	2882.7	2877.4	2851.1	2840.5	2843.1	2845.8	2835.2
15°	2866.9	2859.0	2866.9	2861.6	2864.2	2856.3	2827.3	2816.8	2816.8	2822.1	2803.6
17.5°	2835.2	2824.7	2835.2	2832.6	2830.0	2824.7	2798.4	2787.8	2785.2	2787.8	2774.6
20°	2798.4	2790.5	2798.4	2795.7	2795.7	2785.2	2758.8	2745.7	2745.7	2745.7	2732.5
22.5°	2740.4	2732.5	2740.4	2745.7	2745.7	2743.0	2719.3	2700.9	2695.6	2695.6	2679.8
25°	2674.5	2666.6	2674.5	2674.5	2671.9	2674.5	2666.6	2656.1	2648.2	2640.3	2624.5
27.5°	2611.3	2606.0	2611.3	2606.0	2611.3	2603.4	2600.7	2598.1	2587.6	2579.7	2558.6
30°	2548.0	2542.8	2548.0	2542.8	2537.5	2532.2	2519.1	2513.8	2524.3	2519.1	2484.8
32.5°	2469.0	2463.7	2469.0	2469.0	2463.7	2463.7	2442.6	2434.7	2437.4	2453.2	2421.6
35°	2387.3	2379.4	2387.3	2384.7	2387.3	2379.4	2366.2	2363.6	2353.1	2371.5	2347.8
37.5°	2292.4	2284.5	2292.4	2292.4	2292.4	2297.6	2287.1	2279.2	2263.4	2287.1	2268.7
40°	2194.9	2184.3	2194.9	2192.2	2194.9	2200.1	2194.9	2189.6	2173.8	2192.2	2176.4
42.5°	2084.2	2081.6	2084.2	2086.8	2086.8	2097.4	2105.3	2094.7	2089.5	2076.3	2086.8
45°	1965.6	1960.4	1965.6	1970.9	1973.5	1978.8	2002.5	2002.5	1994.6	1973.5	1989.4
47.5°	1839.2	1826.0	1839.2	1855.0	1855.0	1862.9	1886.6	1905.0	1891.9	1865.5	1873.4
50°	1704.8	1707.4	1704.8	1715.3	1715.3	1744.3	1762.8	1781.2	1794.4	1762.8	1725.9
52.5°	1573.0	1570.4	1573.0	1580.9	1591.5	1604.7	1636.3	1654.7	1675.8	1657.4	1599.4
55°	1441.3	1446.6	1441.3	1443.9	1449.2	1457.1	1504.5	1523.0	1562.5	1538.8	1478.2
57.5°	1309.5	1301.6	1309.5	1314.8	1317.5	1325.4	1364.9	1399.1	1422.8	1425.5	1351.7
60°	1156.7	1146.2	1156.7	1180.4	1185.7	1191.0	1227.9	1259.5	1280.6	1288.5	1212.1
62.5°	1022.3	1003.9	1022.3	1038.2	1048.7	1061.9	1088.2	1135.6	1154.1	1156.7	1048.7
65°	880.1	872.2	880.1	911.7	914.3	930.1	959.1	993.4	1032.9	1027.6	872.2
67.5°	750.9	750.9	750.9	772.0	787.8	795.7	832.6	848.4	898.5	903.8	727.2
70°	632.4	629.7	632.4	648.2	658.7	677.2	711.4	729.9	769.4	782.6	590.2
72.5°	519.1	516.4	519.1	532.3	542.8	558.6	587.6	608.7	642.9	658.7	458.5
75°	418.9	413.7	418.9	429.5	426.9	447.9	471.6	492.7	524.3	534.9	339.9
77.5°	321.5	321.5	321.5	332.0	332.0	353.1	363.6	390.0	408.4	424.2	250.3
80°	239.8	237.1	239.8	242.4	242.4	253.0	271.4	289.8	305.6	305.6	171.3
82.5°	168.6	163.4	168.6	168.6	168.6	173.9	184.4	189.7	200.3	208.2	108.0
85°	105.4	105.4	105.4	108.0	105.4	110.7	113.3	118.6	118.6	113.3	65.9
87.5°	68.5	65.9	68.5	65.9	65.9	63.2	63.2	63.2	60.6	58.0	36.9
90°	41.6	41.6	41.6	41.6	41.6	55.5	74.0	83.3	71.6	48.2	30.7
92.5°	166.8	133.7	166.8	200.0	208.2	295.2	411.1	469.1	411.8	297.4	211.5
95°	581.4	481.1	581.4	681.7	706.9	928.3	1223.5	1371.0	1158.0	731.7	412.1
97.5°	1393.2	1202.3	1393.2	1584.2	1631.9	1771.8	1958.3	2051.6	1696.3	985.6	452.7
100°	2007.4	1779.9	2007.4	2234.8	2291.7	2281.5	2267.9	2261.0	1866.7	1078.0	486.6
102.5°	2611.5	2416.6	2611.5	2806.3	2855.0	2676.7	2439.0	2320.2	1920.3	1120.4	520.6
105°	3381.6	3276.9	3381.6	3486.4	3512.6	3113.0	2580.1	2313.6	1926.4	1151.9	571.0
107.5°	3886.2	3911.5	3886.2	3860.8	3854.5	3297.1	2553.7	2182.1	1840.6	1157.7	645.6
110°	4078.6	4187.7	4078.6	3969.5	3942.2	3318.9	2488.0	2072.4	1764.6	1148.9	687.2





TEST NUMBER: P935153

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4095.8	4263.4	4095.8	3928.2	3886.3	3248.5	2398.0	1972.8	1698.3	1149.3	737.6
115°	3987.1	4219.4	3987.1	3754.7	3696.7	3082.2	2262.9	1853.3	1622.1	1159.9	813.2
117.5°	3756.8	4014.5	3756.8	3499.2	3434.8	2880.2	2140.8	1771.1	1574.5	1181.5	886.6
120°	3571.3	3821.7	3571.3	3320.9	3258.3	2751.6	2076.0	1738.2	1558.5	1199.1	929.4
122.5°	3390.5	3637.5	3390.5	3143.6	3081.9	2625.6	2017.2	1713.0	1550.1	1224.3	979.8
125°	3132.7	3360.2	3132.7	2905.2	2848.4	2460.8	1944.0	1685.6	1543.2	1258.2	1044.5
127.5°	2900.9	3092.8	2900.9	2708.9	2661.0	2328.2	1884.5	1662.6	1539.1	1292.2	1106.9
130°	2764.3	2941.6	2764.3	2587.0	2542.7	2246.4	1851.4	1653.8	1541.6	1317.0	1148.6
132.5°	2640.3	2799.1	2640.3	2481.6	2441.9	2176.6	1822.9	1646.1	1543.1	1337.0	1182.5
135°	2470.4	2607.3	2470.4	2333.6	2299.3	2077.2	1781.1	1633.0	1541.7	1359.0	1222.0
137.5°	2334.2	2446.2	2334.2	2222.2	2194.2	2006.4	1756.0	1630.8	1551.2	1391.8	1272.4
140°	2240.7	2345.4	2240.7	2135.9	2109.8	1947.5	1731.2	1623.1	1552.7	1412.0	1306.4
142.5°	2163.2	2253.3	2163.2	2073.1	2050.6	1908.1	1718.1	1623.1	1558.3	1428.7	1331.6
145°	2047.1	2115.2	2047.1	1978.8	1961.8	1845.2	1689.9	1612.2	1558.4	1450.7	1370.0
147.5°	1957.9	2014.4	1957.9	1901.4	1887.3	1795.6	1673.3	1612.2	1569.1	1482.8	1418.2
150°	1901.8	1947.5	1901.8	1855.9	1844.5	1767.1	1663.9	1612.2	1574.7	1499.7	1443.4
152.5°	1853.7	1888.3	1853.7	1819.1	1810.5	1744.4	1656.3	1612.2	1578.3	1510.6	1459.8
155°	1798.6	1821.5	1798.6	1775.7	1770.0	1717.3	1647.3	1612.2	1586.4	1534.7	1496.0
157.5°	1755.0	1771.1	1755.0	1738.9	1734.9	1694.0	1639.4	1612.2	1594.5	1558.9	1532.2
160°	1728.9	1738.2	1728.9	1719.6	1717.3	1682.3	1635.6	1612.2	1598.1	1569.8	1548.6
162.5°	1711.9	1720.7	1711.9	1703.1	1700.9	1671.3	1631.9	1612.2	1601.9	1581.5	1566.1
165°	1687.3	1696.5	1687.3	1678.0	1675.7	1654.5	1626.3	1612.2	1607.6	1598.2	1591.3
167.5°	1669.7	1673.5	1669.7	1665.8	1664.8	1650.9	1632.4	1623.1	1619.2	1611.4	1605.6
170°	1664.8	1664.8	1664.8	1664.8	1664.8	1650.9	1632.4	1623.1	1622.8	1622.4	1622.0
172.5°	1651.7	1648.3	1651.7	1655.2	1656.0	1645.1	1630.4	1623.1	1623.1	1623.1	1623.1
175°	1643.9	1643.9	1643.9	1643.9	1643.9	1637.0	1627.8	1623.1	1625.3	1629.7	1633.0
177.5°	1636.9	1633.0	1636.9	1640.8	1641.7	1636.3	1629.0	1625.3	1627.1	1630.5	1633.0
180°	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0



TEST NUMBER: P935153

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2824.7	2808.9	2808.9	2782.5	2772.0	2764.1	2750.9	2711.4	2700.9	2690.3	2706.1
5°	2848.4	2819.4	2798.4	2750.9	2711.4	2695.6	2645.5	2550.7	2487.4	2440.0	2413.7
7.5°	2853.7	2816.8	2777.3	2703.5	2608.6	2566.5	2413.7	2239.7	2192.2	2150.1	2123.7
10°	2848.4	2806.3	2750.9	2640.3	2416.3	2342.5	2189.6	2076.3	2047.3	2039.4	2047.3
12.5°	2830.0	2790.5	2714.0	2529.6	2216.0	2165.9	2076.3	2010.4	2005.2	2018.3	2089.5
15°	2798.4	2761.5	2671.9	2382.0	2105.3	2068.4	2005.2	1981.4	2010.4	2102.7	2316.1
17.5°	2766.7	2724.6	2613.9	2237.0	2021.0	1994.6	1949.8	1997.3	2160.6	2284.5	2355.7
20°	2724.6	2674.5	2548.0	2131.6	1960.4	1936.7	1915.6	2129.0	2252.8	2297.6	2337.2
22.5°	2674.5	2621.8	2458.5	2057.9	1897.1	1878.7	1891.9	2202.8	2252.8	2284.5	2318.7
25°	2608.6	2563.8	2353.1	1999.9	1847.1	1826.0	1876.1	2194.9	2223.9	2231.8	2300.3
27.5°	2548.0	2490.1	2242.3	1947.2	1786.5	1778.6	1889.2	2160.6	2181.7	2189.6	2263.4
30°	2474.3	2387.3	2118.5	1891.9	1723.2	1720.6	1891.9	2118.5	2113.2	2134.3	2208.0
32.5°	2397.8	2234.4	1978.8	1823.4	1662.6	1660.0	1873.4	2055.2	2050.0	2078.9	2134.3
35°	2326.7	2115.8	1789.1	1744.3	1586.2	1588.8	1828.6	1981.4	1984.1	2010.4	2044.7
37.5°	2252.8	2013.1	1580.9	1657.4	1512.4	1512.4	1768.0	1912.9	1907.7	1915.6	1963.0
40°	2165.9	1852.3	1396.5	1544.1	1443.9	1436.0	1694.2	1839.2	1820.7	1818.1	1884.0
42.5°	2073.7	1675.8	1259.5	1393.9	1364.9	1354.3	1604.7	1749.6	1715.3	1723.2	1807.5
45°	1973.5	1628.4	1154.1	1177.8	1283.2	1275.3	1507.2	1646.8	1623.1	1644.2	1731.1
47.5°	1873.4	1533.5	1119.8	977.5	1196.2	1193.6	1399.1	1546.7	1533.5	1554.6	1646.8
50°	1736.4	1428.1	1117.2	837.9	1098.8	1109.3	1270.0	1449.2	1449.2	1467.6	1565.1
52.5°	1559.9	1299.0	1014.4	758.9	985.5	1017.1	1156.7	1364.9	1370.1	1388.6	1475.5
55°	1399.1	1164.6	940.7	698.2	851.1	919.6	1046.1	1277.9	1288.5	1306.9	1386.0
57.5°	1251.6	969.6	924.9	627.1	727.2	793.1	948.6	1193.6	1198.9	1214.7	1291.1
60°	1093.5	700.9	848.4	550.7	619.2	669.3	859.0	1093.5	1111.9	1122.5	1188.3
62.5°	914.3	508.5	769.4	498.0	566.5	577.0	785.2	998.6	1022.3	1030.2	1069.8
65°	650.8	426.9	653.5	453.2	511.2	513.8	706.2	901.1	922.2	935.4	964.4
67.5°	440.0	347.8	498.0	411.0	469.0	471.6	629.7	787.8	816.8	827.4	845.8
70°	305.6	231.9	368.9	366.3	421.6	426.9	548.1	685.1	711.4	719.3	729.9
72.5°	224.0	187.1	305.6	329.4	371.5	376.8	463.7	569.1	595.5	603.4	608.7
75°	171.3	197.6	247.7	287.2	316.2	318.8	379.4	463.7	482.2	487.5	490.1
77.5°	137.0	184.4	181.8	231.9	258.2	253.0	297.7	358.3	374.2	374.2	374.2
80°	102.8	144.9	137.0	166.0	189.7	184.4	213.4	255.6	260.9	266.1	263.5
82.5°	76.4	92.2	92.2	105.4	126.5	121.2	142.3	166.0	166.0	166.0	171.3
85°	47.4	52.7	42.2	55.3	71.1	68.5	79.0	89.6	92.2	92.2	87.0
87.5°	29.0	23.7	13.2	21.1	31.6	31.6	36.9	39.5	36.9	36.9	36.9
90°	28.5	19.8	11.0	19.8	28.5	30.7	48.2	71.6	83.3	74.0	55.5
92.5°	192.9	118.3	43.8	118.3	192.9	211.5	297.4	411.8	469.1	411.1	295.2
95°	378.0	241.6	105.2	241.6	378.0	412.1	731.7	1158.0	1371.0	1223.5	928.3
97.5°	422.6	302.2	181.9	302.2	422.6	452.7	985.6	1696.3	2051.6	1958.3	1771.8
100°	459.3	350.2	241.1	350.2	459.3	486.6	1078.0	1866.7	2261.0	2267.9	2281.5
102.5°	495.1	393.3	291.5	393.3	495.1	520.6	1120.4	1920.3	2320.2	2439.0	2676.7
105°	549.5	463.2	377.1	463.2	549.5	571.0	1151.9	1926.4	2313.6	2580.1	3113.0
107.5°	625.4	545.1	464.7	545.1	625.4	645.6	1157.7	1840.6	2182.1	2553.7	3297.1
110°	669.0	596.5	523.9	596.5	669.0	687.2	1148.9	1764.6	2072.4	2488.0	3318.9



TEST NUMBER: P935153

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	720.3	651.2	582.0	651.2	720.3	737.6	1149.3	1698.3	1972.8	2398.0	3248.5
115°	797.2	733.5	669.6	733.5	797.2	813.2	1159.9	1622.1	1853.3	2262.9	3082.2
117.5°	872.2	814.2	756.2	814.2	872.2	886.6	1181.5	1574.5	1771.1	2140.8	2880.2
120°	915.8	861.2	806.6	861.2	915.8	929.4	1199.1	1558.5	1738.2	2076.0	2751.6
122.5°	966.0	911.1	856.0	911.1	966.0	979.8	1224.3	1550.1	1713.0	2017.2	2625.6
125°	1031.9	981.8	931.6	981.8	1031.9	1044.5	1258.2	1543.2	1685.6	1944.0	2460.8
127.5°	1094.3	1043.6	992.9	1043.6	1094.3	1106.9	1292.2	1539.1	1662.6	1884.5	2328.2
130°	1134.9	1080.4	1025.9	1080.4	1134.9	1148.6	1317.0	1541.6	1653.8	1851.4	2246.4
132.5°	1168.9	1114.4	1059.8	1114.4	1168.9	1182.5	1337.0	1543.1	1646.1	1822.9	2176.6
135°	1209.6	1159.9	1110.3	1159.9	1209.6	1222.0	1359.0	1541.7	1633.0	1781.1	2077.2
137.5°	1260.1	1210.9	1161.7	1210.9	1260.1	1272.4	1391.8	1551.2	1630.8	1756.0	2006.4
140°	1295.1	1249.8	1204.5	1249.8	1295.1	1306.4	1412.0	1552.7	1623.1	1731.2	1947.5
142.5°	1321.1	1279.2	1237.4	1279.2	1321.1	1331.6	1428.7	1558.3	1623.1	1718.1	1908.1
145°	1360.8	1324.3	1287.8	1324.3	1360.8	1370.0	1450.7	1558.4	1612.2	1689.9	1845.2
147.5°	1409.3	1373.8	1338.2	1373.8	1409.3	1418.2	1482.8	1569.1	1612.2	1673.3	1795.6
150°	1435.3	1403.2	1371.0	1403.2	1435.3	1443.4	1499.7	1574.7	1612.2	1663.9	1767.1
152.5°	1453.8	1429.3	1405.0	1429.3	1453.8	1459.8	1510.6	1578.3	1612.2	1656.3	1744.4
155°	1491.5	1473.4	1455.4	1473.4	1491.5	1496.0	1534.7	1586.4	1612.2	1647.3	1717.3
157.5°	1527.8	1510.2	1492.7	1510.2	1527.8	1532.2	1558.9	1594.5	1612.2	1639.4	1694.0
160°	1545.2	1531.6	1517.9	1531.6	1545.2	1548.6	1569.8	1598.1	1612.2	1635.6	1682.3
162.5°	1563.6	1553.3	1543.1	1553.3	1563.6	1566.1	1581.5	1601.9	1612.2	1631.9	1671.3
165°	1589.0	1579.7	1570.5	1579.7	1589.0	1591.3	1598.2	1607.6	1612.2	1626.3	1654.5
167.5°	1604.5	1600.1	1595.7	1600.1	1604.5	1605.6	1611.4	1619.2	1623.1	1632.4	1650.9
170°	1621.0	1616.6	1612.2	1616.6	1621.0	1622.0	1622.4	1622.8	1623.1	1632.4	1650.9
172.5°	1622.8	1621.9	1620.9	1621.9	1622.8	1623.1	1623.1	1623.1	1623.1	1630.4	1645.1
175°	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1629.7	1625.3	1623.1	1627.8	1637.0
177.5°	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1630.5	1627.1	1625.3	1629.0	1636.3
180°	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0



TEST NUMBER: P935153

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2687.7	2679.8	2690.3	2661.3	2690.3	2679.8	2687.7	2706.1	2690.3	2700.9	2711.4
5°	2358.3	2345.2	2302.9	2268.7	2302.9	2345.2	2358.3	2413.7	2440.0	2487.4	2550.7
7.5°	2107.9	2097.4	2086.8	2065.8	2086.8	2097.4	2107.9	2123.7	2150.1	2192.2	2239.7
10°	2052.6	2055.2	2071.0	2068.4	2071.0	2055.2	2052.6	2047.3	2039.4	2047.3	2076.3
12.5°	2194.9	2218.6	2305.5	2300.3	2305.5	2218.6	2194.9	2089.5	2018.3	2005.2	2010.4
15°	2358.3	2366.2	2384.7	2387.3	2384.7	2366.2	2358.3	2316.1	2102.7	2010.4	1981.4
17.5°	2374.1	2376.8	2389.9	2389.9	2389.9	2376.8	2374.1	2355.7	2284.5	2160.6	1997.3
20°	2361.0	2366.2	2392.6	2397.8	2392.6	2366.2	2361.0	2337.2	2297.6	2252.8	2129.0
22.5°	2355.7	2366.2	2387.3	2384.7	2387.3	2366.2	2355.7	2318.7	2284.5	2252.8	2202.8
25°	2329.3	2329.3	2332.0	2334.6	2332.0	2329.3	2329.3	2300.3	2231.8	2223.9	2194.9
27.5°	2273.9	2279.2	2295.0	2292.4	2295.0	2279.2	2273.9	2263.4	2189.6	2181.7	2160.6
30°	2223.9	2218.6	2205.4	2194.9	2205.4	2218.6	2223.9	2208.0	2134.3	2113.2	2118.5
32.5°	2139.5	2126.4	2113.2	2105.3	2113.2	2126.4	2139.5	2134.3	2078.9	2050.0	2055.2
35°	2039.4	2042.0	2039.4	2031.5	2039.4	2042.0	2039.4	2044.7	2010.4	1984.1	1981.4
37.5°	1968.3	1973.5	1970.9	1960.4	1970.9	1973.5	1968.3	1963.0	1915.6	1907.7	1912.9
40°	1894.5	1897.1	1894.5	1886.6	1894.5	1897.1	1894.5	1884.0	1818.1	1820.7	1839.2
42.5°	1823.4	1820.7	1812.8	1807.5	1812.8	1820.7	1823.4	1807.5	1723.2	1715.3	1749.6
45°	1741.7	1744.3	1728.5	1720.6	1728.5	1744.3	1741.7	1731.1	1644.2	1623.1	1646.8
47.5°	1660.0	1660.0	1646.8	1638.9	1646.8	1660.0	1660.0	1646.8	1554.6	1533.5	1546.7
50°	1573.0	1570.4	1552.0	1549.3	1552.0	1570.4	1573.0	1565.1	1467.6	1449.2	1449.2
52.5°	1472.9	1472.9	1475.5	1480.8	1475.5	1472.9	1472.9	1475.5	1388.6	1370.1	1364.9
55°	1386.0	1388.6	1407.0	1412.3	1407.0	1388.6	1386.0	1386.0	1306.9	1288.5	1277.9
57.5°	1296.4	1296.4	1309.5	1309.5	1309.5	1296.4	1296.4	1291.1	1214.7	1198.9	1193.6
60°	1193.6	1198.9	1209.4	1206.8	1209.4	1198.9	1193.6	1188.3	1122.5	1111.9	1093.5
62.5°	1085.6	1090.8	1093.5	1088.2	1093.5	1090.8	1085.6	1069.8	1030.2	1022.3	998.6
65°	972.3	977.5	980.2	974.9	980.2	977.5	972.3	964.4	935.4	922.2	901.1
67.5°	856.3	853.7	851.1	861.6	851.1	853.7	856.3	845.8	827.4	816.8	787.8
70°	737.8	737.8	735.1	740.4	735.1	737.8	737.8	729.9	719.3	711.4	685.1
72.5°	611.3	608.7	619.2	611.3	619.2	608.7	611.3	608.7	603.4	595.5	569.1
75°	487.5	492.7	487.5	495.4	487.5	492.7	487.5	490.1	487.5	482.2	463.7
77.5°	371.5	376.8	371.5	371.5	371.5	376.8	371.5	374.2	374.2	374.2	358.3
80°	263.5	260.9	260.9	258.2	260.9	260.9	263.5	263.5	266.1	260.9	255.6
82.5°	168.6	166.0	166.0	171.3	166.0	166.0	168.6	171.3	166.0	166.0	166.0
85°	92.2	94.9	89.6	89.6	89.6	94.9	92.2	87.0	92.2	92.2	89.6
87.5°	34.3	31.6	31.6	31.6	31.6	31.6	34.3	36.9	36.9	36.9	39.5
90°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	55.5	74.0	83.3	71.6
92.5°	208.2	200.0	166.8	133.7	166.8	200.0	208.2	295.2	411.1	469.1	411.8
95°	706.9	681.7	581.4	481.1	581.4	681.7	706.9	928.3	1223.5	1371.0	1158.0
97.5°	1631.9	1584.2	1393.2	1202.3	1393.2	1584.2	1631.9	1771.8	1958.3	2051.6	1696.3
100°	2291.7	2234.8	2007.4	1779.9	2007.4	2234.8	2291.7	2281.5	2267.9	2261.0	1866.7
102.5°	2855.0	2806.3	2611.5	2416.6	2611.5	2806.3	2855.0	2676.7	2439.0	2320.2	1920.3
105°	3512.6	3486.4	3381.6	3276.9	3381.6	3486.4	3512.6	3113.0	2580.1	2313.6	1926.4
107.5°	3854.5	3860.8	3886.2	3911.5	3886.2	3860.8	3854.5	3297.1	2553.7	2182.1	1840.6
110°	3942.2	3969.5	4078.6	4187.7	4078.6	3969.5	3942.2	3318.9	2488.0	2072.4	1764.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3886.3	3928.2	4095.8	4263.4	4095.8	3928.2	3886.3	3248.5	2398.0	1972.8	1698.3
115°	3696.7	3754.7	3987.1	4219.4	3987.1	3754.7	3696.7	3082.2	2262.9	1853.3	1622.1
117.5°	3434.8	3499.2	3756.8	4014.5	3756.8	3499.2	3434.8	2880.2	2140.8	1771.1	1574.5
120°	3258.3	3320.9	3571.3	3821.7	3571.3	3320.9	3258.3	2751.6	2076.0	1738.2	1558.5
122.5°	3081.9	3143.6	3390.5	3637.5	3390.5	3143.6	3081.9	2625.6	2017.2	1713.0	1550.1
125°	2848.4	2905.2	3132.7	3360.2	3132.7	2905.2	2848.4	2460.8	1944.0	1685.6	1543.2
127.5°	2661.0	2708.9	2900.9	3092.8	2900.9	2708.9	2661.0	2328.2	1884.5	1662.6	1539.1
130°	2542.7	2587.0	2764.3	2941.6	2764.3	2587.0	2542.7	2246.4	1851.4	1653.8	1541.6
132.5°	2441.9	2481.6	2640.3	2799.1	2640.3	2481.6	2441.9	2176.6	1822.9	1646.1	1543.1
135°	2299.3	2333.6	2470.4	2607.3	2470.4	2333.6	2299.3	2077.2	1781.1	1633.0	1541.7
137.5°	2194.2	2222.2	2334.2	2446.2	2334.2	2222.2	2194.2	2006.4	1756.0	1630.8	1551.2
140°	2109.8	2135.9	2240.7	2345.4	2240.7	2135.9	2109.8	1947.5	1731.2	1623.1	1552.7
142.5°	2050.6	2073.1	2163.2	2253.3	2163.2	2073.1	2050.6	1908.1	1718.1	1623.1	1558.3
145°	1961.8	1978.8	2047.1	2115.2	2047.1	1978.8	1961.8	1845.2	1689.9	1612.2	1558.4
147.5°	1887.3	1901.4	1957.9	2014.4	1957.9	1901.4	1887.3	1795.6	1673.3	1612.2	1569.1
150°	1844.5	1855.9	1901.8	1947.5	1901.8	1855.9	1844.5	1767.1	1663.9	1612.2	1574.7
152.5°	1810.5	1819.1	1853.7	1888.3	1853.7	1819.1	1810.5	1744.4	1656.3	1612.2	1578.3
155°	1770.0	1775.7	1798.6	1821.5	1798.6	1775.7	1770.0	1717.3	1647.3	1612.2	1586.4
157.5°	1734.9	1738.9	1755.0	1771.1	1755.0	1738.9	1734.9	1694.0	1639.4	1612.2	1594.5
160°	1717.3	1719.6	1728.9	1738.2	1728.9	1719.6	1717.3	1682.3	1635.6	1612.2	1598.1
162.5°	1700.9	1703.1	1711.9	1720.7	1711.9	1703.1	1700.9	1671.3	1631.9	1612.2	1601.9
165°	1675.7	1678.0	1687.3	1696.5	1687.3	1678.0	1675.7	1654.5	1626.3	1612.2	1607.6
167.5°	1664.8	1665.8	1669.7	1673.5	1669.7	1665.8	1664.8	1650.9	1632.4	1623.1	1619.2
170°	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1650.9	1632.4	1623.1	1622.8
172.5°	1656.0	1655.2	1651.7	1648.3	1651.7	1655.2	1656.0	1645.1	1630.4	1623.1	1623.1
175°	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1643.9	1637.0	1627.8	1623.1	1625.3
177.5°	1641.7	1640.8	1636.9	1633.0	1636.9	1640.8	1641.7	1636.3	1629.0	1625.3	1627.1
180°	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0	1633.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2750.9	2764.1	2772.0	2782.5	2808.9
5°	2645.5	2695.6	2711.4	2750.9	2798.4
7.5°	2413.7	2566.5	2608.6	2703.5	2777.3
10°	2189.6	2342.5	2416.3	2640.3	2750.9
12.5°	2076.3	2165.9	2216.0	2529.6	2714.0
15°	2005.2	2068.4	2105.3	2382.0	2671.9
17.5°	1949.8	1994.6	2021.0	2237.0	2613.9
20°	1915.6	1936.7	1960.4	2131.6	2548.0
22.5°	1891.9	1878.7	1897.1	2057.9	2458.5
25°	1876.1	1826.0	1847.1	1999.9	2353.1
27.5°	1889.2	1778.6	1786.5	1947.2	2242.3
30°	1891.9	1720.6	1723.2	1891.9	2118.5
32.5°	1873.4	1660.0	1662.6	1823.4	1978.8
35°	1828.6	1588.8	1586.2	1744.3	1789.1
37.5°	1768.0	1512.4	1512.4	1657.4	1580.9
40°	1694.2	1436.0	1443.9	1544.1	1396.5
42.5°	1604.7	1354.3	1364.9	1393.9	1259.5
45°	1507.2	1275.3	1283.2	1177.8	1154.1
47.5°	1399.1	1193.6	1196.2	977.5	1119.8
50°	1270.0	1109.3	1098.8	837.9	1117.2
52.5°	1156.7	1017.1	985.5	758.9	1014.4
55°	1046.1	919.6	851.1	698.2	940.7
57.5°	948.6	793.1	727.2	627.1	924.9
60°	859.0	669.3	619.2	550.7	848.4
62.5°	785.2	577.0	566.5	498.0	769.4
65°	706.2	513.8	511.2	453.2	653.5
67.5°	629.7	471.6	469.0	411.0	498.0
70°	548.1	426.9	421.6	366.3	368.9
72.5°	463.7	376.8	371.5	329.4	305.6
75°	379.4	318.8	316.2	287.2	247.7
77.5°	297.7	253.0	258.2	231.9	181.8
80°	213.4	184.4	189.7	166.0	137.0
82.5°	142.3	121.2	126.5	105.4	92.2
85°	79.0	68.5	71.1	55.3	42.2
87.5°	36.9	31.6	31.6	21.1	13.2
90°	48.2	30.7	28.5	19.8	11.0
92.5°	297.4	211.5	192.9	118.3	43.8
95°	731.7	412.1	378.0	241.6	105.2
97.5°	985.6	452.7	422.6	302.2	181.9
100°	1078.0	486.6	459.3	350.2	241.1
102.5°	1120.4	520.6	495.1	393.3	291.5
105°	1151.9	571.0	549.5	463.2	377.1
107.5°	1157.7	645.6	625.4	545.1	464.7
110°	1148.9	687.2	669.0	596.5	523.9



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CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1149.3	737.6	720.3	651.2	582.0
115°	1159.9	813.2	797.2	733.5	669.6
117.5°	1181.5	886.6	872.2	814.2	756.2
120°	1199.1	929.4	915.8	861.2	806.6
122.5°	1224.3	979.8	966.0	911.1	856.0
125°	1258.2	1044.5	1031.9	981.8	931.6
127.5°	1292.2	1106.9	1094.3	1043.6	992.9
130°	1317.0	1148.6	1134.9	1080.4	1025.9
132.5°	1337.0	1182.5	1168.9	1114.4	1059.8
135°	1359.0	1222.0	1209.6	1159.9	1110.3
137.5°	1391.8	1272.4	1260.1	1210.9	1161.7
140°	1412.0	1306.4	1295.1	1249.8	1204.5
142.5°	1428.7	1331.6	1321.1	1279.2	1237.4
145°	1450.7	1370.0	1360.8	1324.3	1287.8
147.5°	1482.8	1418.2	1409.3	1373.8	1338.2
150°	1499.7	1443.4	1435.3	1403.2	1371.0
152.5°	1510.6	1459.8	1453.8	1429.3	1405.0
155°	1534.7	1496.0	1491.5	1473.4	1455.4
157.5°	1558.9	1532.2	1527.8	1510.2	1492.7
160°	1569.8	1548.6	1545.2	1531.6	1517.9
162.5°	1581.5	1566.1	1563.6	1553.3	1543.1
165°	1598.2	1591.3	1589.0	1579.7	1570.5
167.5°	1611.4	1605.6	1604.5	1600.1	1595.7
170°	1622.4	1622.0	1621.0	1616.6	1612.2
172.5°	1623.1	1623.1	1622.8	1621.9	1620.9
175°	1629.7	1633.0	1633.0	1633.0	1633.0
177.5°	1630.5	1633.0	1633.0	1633.0	1633.0
180°	1633.0	1633.0	1633.0	1633.0	1633.0



TEST NUMBER: P935153  
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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	11.35	12.14	12.39	13.18	14.58	14.21	14.99	15.24	16.03	17.43
	3H	11.83	12.53	12.87	13.58	15.00	15.55	16.25	16.60	17.30	18.72
	4H	12.01	12.68	13.07	13.73	15.16	16.00	16.66	17.05	17.71	19.14
	6H	12.13	12.74	13.19	13.79	15.23	16.28	16.89	17.35	17.95	19.39
	8H	12.13	12.71	13.20	13.78	15.21	16.36	16.94	17.43	18.01	19.45
	12H	12.09	12.65	13.17	13.71	15.17	16.40	16.95	17.47	18.02	19.47
4H	2H	12.38	13.05	13.44	14.10	15.52	14.60	15.27	15.67	16.32	17.75
	3H	13.40	13.96	14.47	15.04	16.47	16.11	16.66	17.18	17.74	19.18
	4H	13.68	14.18	14.75	15.25	16.71	16.64	17.15	17.71	18.22	19.68
	6H	13.80	14.23	14.88	15.32	16.78	17.00	17.44	18.09	18.53	19.99
	8H	13.80	14.21	14.88	15.29	16.76	17.11	17.52	18.20	18.61	20.08
	12H	13.76	14.13	14.87	15.23	16.71	17.17	17.54	18.27	18.64	20.11
8H	4H	14.13	14.53	15.21	15.62	17.09	16.76	17.16	17.84	18.25	19.72
	6H	14.38	14.72	15.49	15.85	17.32	17.19	17.53	18.30	18.66	20.13
	8H	14.43	14.72	15.54	15.83	17.32	17.35	17.64	18.46	18.75	20.24
	12H	14.41	14.66	15.52	15.77	17.30	17.45	17.71	18.57	18.81	20.34
12H	4H	14.13	14.50	15.23	15.60	17.07	16.72	17.08	17.82	18.18	19.66
	6H	14.45	14.74	15.56	15.85	17.34	17.19	17.49	18.31	18.60	20.08
	8H	14.51	14.77	15.63	15.87	17.40	17.35	17.61	18.47	18.72	20.24