

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: P935178

Luminaire Tested: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

**Test Information**

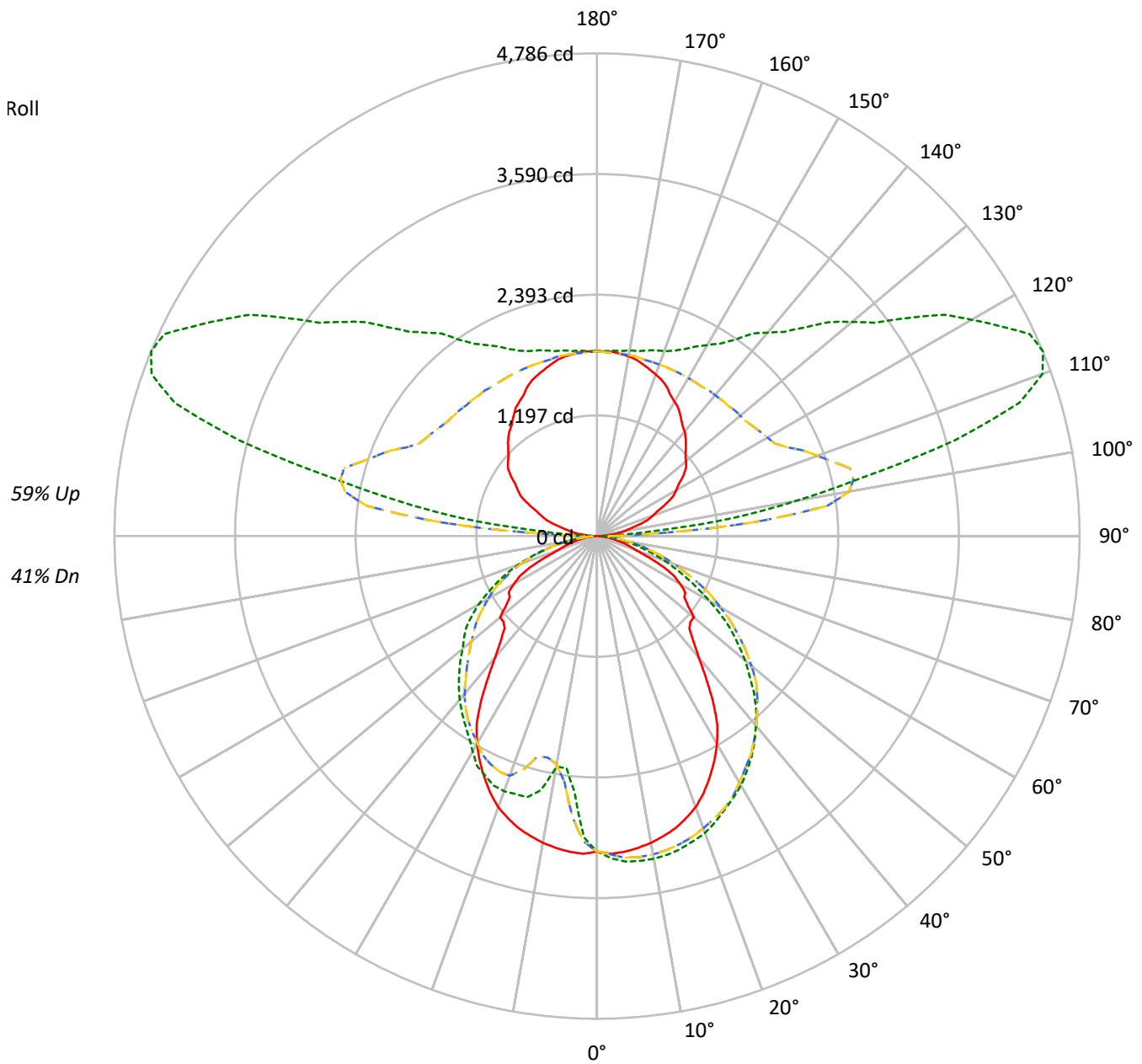
Test Method: LM-79-2019  
Report Number: P935178  
REPORT IS A COMBINATION OF REPORTS P933741 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-12-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19998.0 lumens  
Efficiency: N/A  
Efficacy: 135.5 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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CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-12-3000K

### 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°	9671	9671	9671	9671
5°	9747	9763	9747	7676
10°	9685	9617	9685	6875
15°	9584	9408	9584	7856
20°	9387	9161	9387	7873
25°	8980	8801	8980	7706
30°	8453	8503	8453	7339
35°	7540	8125	7540	6937
40°	6286	7679	6286	6632
45°	5620	7158	5620	6283
50°	5976	6537	5976	5932
55°	5628	5868	5628	5729
60°	5808	4983	5808	5247
65°	5275	4120	5275	4605
70°	3661	3283	3661	3860
75°	3223	2427	3223	2906
80°	2616	1604	2616	1747
85°	1533	850	1533	723

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8609 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.2	1.4
10°-20°	801.3	4.0
20°-30°	1238.7	6.2
30°-40°	1478.8	7.4
40°-50°	1487.4	7.4
50°-60°	1294.2	6.5
60°-70°	917.6	4.6
70°-80°	485.5	2.4
80°-90°	127.9	0.6
90°-100°	893.6	4.5
100°-110°	2349.4	11.7
110°-120°	2436.0	12.2
120°-130°	1954.0	9.8
130°-140°	1533.2	7.7
140°-150°	1176.8	5.9
150°-160°	847.5	4.2
160°-170°	518.5	2.6
170°-180°	175.2	0.9
0°-30°	2322.3	11.6
0°-40°	3801.1	19.0
0°-60°	6582.8	32.9
0°-90°	8113.8	40.6
90°-120°	5679.0	28.4
90°-150°	10343.0	51.7
90°-180°	11884.0	59.4
0°-180°	19998.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3127	3127	3127	3127	3127	
5°	3142	3239	3142	2547	3142	298
15°	3000	3210	3000	2680	3000	844
25°	2642	2994	2642	2621	2642	1213
35°	2008	2671	2008	2281	2008	1243
45°	1296	2201	1296	1932	1296	1038
55°	1056	1624	1056	1586	1056	970
65°	734	979	734	1094	734	701
75°	278	464	278	556	278	292
85°	47	118	47	101	47	64
90°	12	47	12	47	12	12
95°	118	540	118	540	118	131
105°	423	3679	423	3679	423	449
115°	752	4737	752	4737	752	742
125°	1046	3772	1046	3772	1046	929
135°	1246	2927	1246	2927	1246	964
145°	1446	2375	1446	2375	1446	906
155°	1634	2045	1634	2045	1634	751
165°	1763	1905	1763	1905	1763	498
175°	1833	1846	1833	1846	1833	174
180°	1833	1833	1833	1833	1833	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3153.3	3153.3	3171.1	3177.0	3177.0	3168.1	3159.2	3168.1	3194.7	3203.6	3200.7
5°	3141.5	3165.2	3197.7	3203.6	3209.5	3206.6	3200.7	3206.6	3236.2	3242.1	3245.0
7.5°	3117.8	3162.2	3203.6	3212.5	3221.4	3212.5	3209.5	3215.4	3245.0	3250.9	3250.9
10°	3088.3	3150.4	3197.7	3203.6	3212.5	3203.6	3203.6	3215.4	3245.0	3250.9	3253.9
12.5°	3046.8	3132.6	3177.0	3182.9	3194.7	3191.8	3188.8	3200.7	3230.2	3236.2	3236.2
15°	2999.5	3100.1	3141.5	3147.4	3168.1	3162.2	3162.2	3174.0	3206.6	3215.4	3212.5
17.5°	2934.4	3058.7	3106.0	3114.9	3129.7	3126.7	3129.7	3141.5	3171.1	3177.0	3179.9
20°	2860.5	3002.5	3058.7	3067.5	3082.3	3082.3	3082.3	3097.1	3126.7	3138.5	3138.5
22.5°	2759.9	2943.3	3002.5	3008.4	3026.1	3026.1	3032.0	3052.8	3079.4	3082.3	3082.3
25°	2641.6	2878.2	2928.5	2946.3	2964.0	2972.9	2981.8	2993.6	3002.5	2999.5	3002.5
27.5°	2517.3	2795.4	2860.5	2872.3	2896.0	2904.9	2916.7	2919.6	2922.6	2931.5	2925.6
30°	2378.2	2680.0	2777.7	2789.5	2827.9	2833.9	2822.0	2827.9	2842.7	2848.7	2854.6
32.5°	2221.5	2508.4	2691.9	2718.5	2754.0	2736.2	2733.3	2742.2	2765.8	2765.8	2771.7
35°	2008.5	2375.3	2612.0	2635.7	2662.3	2641.6	2653.4	2656.4	2671.2	2680.0	2677.1
37.5°	1774.8	2259.9	2529.1	2546.8	2567.5	2540.9	2558.7	2567.5	2579.4	2573.5	2573.5
40°	1567.7	2079.5	2431.5	2443.3	2461.1	2440.4	2458.1	2464.0	2469.9	2464.0	2461.1
42.5°	1413.9	1881.3	2327.9	2342.7	2330.9	2345.7	2351.6	2363.4	2354.6	2342.7	2342.7
45°	1295.6	1828.0	2215.5	2233.3	2215.5	2239.2	2248.1	2248.1	2221.5	2215.5	2212.6
47.5°	1257.2	1721.6	2103.1	2103.1	2094.3	2123.8	2138.6	2117.9	2091.3	2082.4	2082.4
50°	1254.2	1603.2	1949.3	1937.5	1978.9	2014.4	1999.6	1978.9	1958.2	1925.7	1925.7
52.5°	1138.8	1458.3	1751.1	1795.5	1860.6	1881.3	1857.6	1836.9	1801.4	1786.6	1774.8
55°	1056.0	1307.4	1570.7	1659.4	1727.5	1754.1	1709.7	1689.0	1635.8	1626.9	1621.0
57.5°	1038.3	1088.5	1405.0	1517.5	1600.3	1597.3	1570.7	1532.2	1487.9	1479.0	1476.0
60°	952.5	786.8	1227.6	1360.7	1446.5	1437.6	1413.9	1378.4	1337.0	1331.1	1325.2
62.5°	863.7	570.9	1026.4	1177.3	1298.6	1295.6	1274.9	1221.7	1192.1	1177.3	1165.5
65°	733.6	479.2	730.6	979.1	1153.6	1159.5	1115.2	1076.7	1044.2	1026.4	1023.5
67.5°	559.1	390.5	494.0	816.4	1014.6	1008.7	952.5	934.7	893.3	884.4	866.7
70°	414.1	260.3	343.1	662.6	878.5	863.7	819.4	798.7	760.2	739.5	727.7
72.5°	343.1	210.0	251.4	514.7	739.5	721.8	683.3	659.6	627.1	609.3	597.5
75°	278.1	221.8	192.3	381.6	600.5	588.6	553.1	529.5	502.9	479.2	482.2
77.5°	204.1	207.1	153.8	281.0	476.2	458.5	437.8	408.2	396.4	372.7	372.7
80°	153.8	162.7	115.4	192.3	343.1	343.1	325.4	304.7	284.0	272.1	272.1
82.5°	103.5	103.5	85.8	121.3	233.7	224.8	213.0	207.1	195.2	189.3	189.3
85°	47.3	59.2	53.2	74.0	127.2	133.1	133.1	127.2	124.2	118.3	121.3
87.5°	14.8	26.6	32.5	41.4	65.1	68.0	71.0	71.0	71.0	74.0	74.0
90°	12.3	22.2	31.9	34.4	54.1	80.4	93.5	83.1	62.3	46.7	46.7
92.5°	49.2	132.8	216.5	237.4	333.9	462.3	526.6	461.5	331.4	233.8	224.5
95°	118.1	271.2	424.4	462.6	821.4	1299.9	1539.1	1373.5	1042.1	793.5	765.3
97.5°	204.2	339.3	474.4	508.2	1106.5	1904.3	2303.2	2198.5	1989.1	1832.0	1778.4
100°	270.7	393.1	515.6	546.2	1210.2	2095.5	2538.3	2546.0	2561.2	2572.7	2508.9
102.5°	327.3	441.5	555.8	584.4	1257.8	2155.8	2604.7	2738.1	3004.9	3205.1	3150.4
105°	423.3	520.0	616.8	641.0	1293.1	2162.6	2597.3	2896.5	3494.7	3943.3	3913.9
107.5°	521.7	611.9	702.1	724.7	1299.6	2066.3	2449.6	2866.9	3701.3	4327.2	4334.3
110°	588.1	669.6	751.0	771.4	1289.8	1981.0	2326.6	2793.0	3725.9	4425.6	4456.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	653.3	731.0	808.6	828.0	1290.3	1906.5	2214.7	2692.1	3646.8	4362.9	4409.9
115°	751.7	823.4	895.0	912.9	1302.1	1821.0	2080.6	2540.4	3460.2	4150.0	4215.2
117.5°	848.9	914.0	979.1	995.4	1326.4	1767.6	1988.3	2403.3	3233.4	3856.0	3928.2
120°	905.5	966.8	1028.1	1043.4	1346.1	1749.7	1951.4	2330.6	3089.0	3657.9	3728.2
122.5°	961.0	1022.8	1084.5	1100.0	1374.4	1740.2	1923.1	2264.5	2947.5	3459.8	3529.1
125°	1045.9	1102.2	1158.5	1172.6	1412.4	1732.4	1892.3	2182.4	2762.6	3197.7	3261.5
127.5°	1114.7	1171.6	1228.5	1242.7	1450.6	1727.9	1866.5	2115.6	2613.7	2987.3	3041.1
130°	1151.6	1212.9	1274.1	1289.4	1478.5	1730.6	1856.6	2078.4	2521.9	2854.5	2904.3
132.5°	1189.8	1251.0	1312.3	1327.6	1501.0	1732.3	1848.0	2046.4	2443.5	2741.3	2785.8
135°	1246.4	1302.1	1357.9	1371.8	1525.6	1730.7	1833.3	1999.5	2331.9	2581.2	2619.7
137.5°	1304.2	1359.4	1414.6	1428.4	1562.5	1741.4	1830.8	1971.3	2252.4	2463.2	2494.7
140°	1352.2	1403.1	1453.9	1466.6	1585.1	1743.1	1822.1	1943.5	2186.4	2368.5	2397.9
142.5°	1389.1	1436.1	1483.1	1494.9	1603.9	1749.4	1822.1	1928.8	2142.1	2302.0	2327.3
145°	1445.7	1486.7	1527.7	1538.0	1628.6	1749.5	1809.9	1897.1	2071.5	2202.3	2221.5
147.5°	1502.3	1542.2	1582.1	1592.1	1664.7	1761.5	1809.9	1878.5	2015.8	2118.7	2134.6
150°	1539.1	1575.2	1611.3	1620.4	1683.6	1767.8	1809.9	1867.9	1983.7	2070.7	2083.5
152.5°	1577.3	1604.6	1632.0	1638.8	1695.8	1771.8	1809.9	1859.4	1958.3	2032.5	2042.2
155°	1633.9	1654.1	1674.4	1679.5	1722.9	1780.9	1809.9	1849.2	1927.9	1987.0	1993.4
157.5°	1675.7	1695.4	1715.1	1720.1	1750.1	1790.0	1809.9	1840.5	1901.7	1947.6	1952.2
160°	1704.0	1719.4	1734.7	1738.5	1762.3	1794.0	1809.9	1836.1	1888.6	1927.9	1930.5
162.5°	1732.3	1743.7	1755.3	1758.1	1775.4	1798.4	1809.9	1832.0	1876.3	1909.5	1912.0
165°	1763.1	1773.4	1783.9	1786.4	1794.2	1804.7	1809.9	1825.8	1857.4	1881.2	1883.8
167.5°	1791.4	1796.3	1801.2	1802.5	1809.0	1817.8	1822.1	1832.6	1853.4	1869.0	1870.0
170°	1809.9	1814.8	1819.8	1820.9	1821.3	1821.8	1822.1	1832.6	1853.4	1869.0	1869.0
172.5°	1819.7	1820.7	1821.8	1822.1	1822.1	1822.1	1822.1	1830.3	1846.8	1859.1	1858.1
175°	1833.3	1833.3	1833.3	1833.3	1829.5	1824.6	1822.1	1827.4	1837.7	1845.5	1845.5
177.5°	1833.3	1833.3	1833.3	1833.3	1830.4	1826.6	1824.6	1828.7	1836.9	1843.0	1841.9
180°	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3206.6	3197.7	3206.6	3200.7	3203.6	3194.7	3168.1	3159.2	3168.1	3177.0	3177.0
5°	3245.0	3239.1	3245.0	3245.0	3242.1	3236.2	3206.6	3200.7	3206.6	3209.5	3203.6
7.5°	3256.9	3248.0	3256.9	3250.9	3250.9	3245.0	3215.4	3209.5	3212.5	3221.4	3212.5
10°	3256.9	3248.0	3256.9	3253.9	3250.9	3245.0	3215.4	3203.6	3203.6	3212.5	3203.6
12.5°	3242.1	3236.2	3242.1	3236.2	3236.2	3230.2	3200.7	3188.8	3191.8	3194.7	3182.9
15°	3218.4	3209.5	3218.4	3212.5	3215.4	3206.6	3174.0	3162.2	3162.2	3168.1	3147.4
17.5°	3182.9	3171.1	3182.9	3179.9	3177.0	3171.1	3141.5	3129.7	3126.7	3129.7	3114.9
20°	3141.5	3132.6	3141.5	3138.5	3138.5	3126.7	3097.1	3082.3	3082.3	3082.3	3067.5
22.5°	3076.4	3067.5	3076.4	3082.3	3082.3	3079.4	3052.8	3032.0	3026.1	3026.1	3008.4
25°	3002.5	2993.6	3002.5	3002.5	2999.5	3002.5	2993.6	2981.8	2972.9	2964.0	2946.3
27.5°	2931.5	2925.6	2931.5	2925.6	2931.5	2922.6	2919.6	2916.7	2904.9	2896.0	2872.3
30°	2860.5	2854.6	2860.5	2854.6	2848.7	2842.7	2827.9	2822.0	2833.9	2827.9	2789.5
32.5°	2771.7	2765.8	2771.7	2771.7	2765.8	2765.8	2742.2	2733.3	2736.2	2754.0	2718.5
35°	2680.0	2671.2	2680.0	2677.1	2680.0	2671.2	2656.4	2653.4	2641.6	2662.3	2635.7
37.5°	2573.5	2564.6	2573.5	2573.5	2573.5	2579.4	2567.5	2558.7	2540.9	2567.5	2546.8
40°	2464.0	2452.2	2464.0	2461.1	2464.0	2469.9	2464.0	2458.1	2440.4	2461.1	2443.3
42.5°	2339.8	2336.8	2339.8	2342.7	2342.7	2354.6	2363.4	2351.6	2345.7	2330.9	2342.7
45°	2206.7	2200.8	2206.7	2212.6	2215.5	2221.5	2248.1	2248.1	2239.2	2215.5	2233.3
47.5°	2064.7	2049.9	2064.7	2082.4	2082.4	2091.3	2117.9	2138.6	2123.8	2094.3	2103.1
50°	1913.8	1916.8	1913.8	1925.7	1925.7	1958.2	1978.9	1999.6	2014.4	1978.9	1937.5
52.5°	1765.9	1763.0	1765.9	1774.8	1786.6	1801.4	1836.9	1857.6	1881.3	1860.6	1795.5
55°	1618.0	1623.9	1618.0	1621.0	1626.9	1635.8	1689.0	1709.7	1754.1	1727.5	1659.4
57.5°	1470.1	1461.3	1470.1	1476.0	1479.0	1487.9	1532.2	1570.7	1597.3	1600.3	1517.5
60°	1298.6	1286.7	1298.6	1325.2	1331.1	1337.0	1378.4	1413.9	1437.6	1446.5	1360.7
62.5°	1147.7	1127.0	1147.7	1165.5	1177.3	1192.1	1221.7	1274.9	1295.6	1298.6	1177.3
65°	988.0	979.1	988.0	1023.5	1026.4	1044.2	1076.7	1115.2	1159.5	1153.6	979.1
67.5°	843.0	843.0	843.0	866.7	884.4	893.3	934.7	952.5	1008.7	1014.6	816.4
70°	709.9	707.0	709.9	727.7	739.5	760.2	798.7	819.4	863.7	878.5	662.6
72.5°	582.7	579.8	582.7	597.5	609.3	627.1	659.6	683.3	721.8	739.5	514.7
75°	470.3	464.4	470.3	482.2	479.2	502.9	529.5	553.1	588.6	600.5	381.6
77.5°	360.9	360.9	360.9	372.7	372.7	396.4	408.2	437.8	458.5	476.2	281.0
80°	269.2	266.2	269.2	272.1	272.1	284.0	304.7	325.4	343.1	343.1	192.3
82.5°	189.3	183.4	189.3	189.3	189.3	195.2	207.1	213.0	224.8	233.7	121.3
85°	118.3	118.3	118.3	121.3	118.3	124.2	127.2	133.1	133.1	127.2	74.0
87.5°	76.9	74.0	76.9	74.0	74.0	71.0	71.0	71.0	68.0	65.1	41.4
90°	46.7	46.7	46.7	46.7	46.7	62.3	83.1	93.5	80.4	54.1	34.4
92.5°	187.2	150.1	187.2	224.5	233.8	331.4	461.5	526.6	462.3	333.9	237.4
95°	652.7	540.1	652.7	765.3	793.5	1042.1	1373.5	1539.1	1299.9	821.4	462.6
97.5°	1564.1	1349.7	1564.1	1778.4	1832.0	1989.1	2198.5	2303.2	1904.3	1106.5	508.2
100°	2253.5	1998.1	2253.5	2508.9	2572.7	2561.2	2546.0	2538.3	2095.5	1210.2	546.2
102.5°	2931.7	2713.0	2931.7	3150.4	3205.1	3004.9	2738.1	2604.7	2155.8	1257.8	584.4
105°	3796.3	3678.8	3796.3	3913.9	3943.3	3494.7	2896.5	2597.3	2162.6	1293.1	641.0
107.5°	4362.8	4391.2	4362.8	4334.3	4327.2	3701.3	2866.9	2449.6	2066.3	1299.6	724.7
110°	4578.7	4701.2	4578.7	4456.2	4425.6	3725.9	2793.0	2326.6	1981.0	1289.8	771.4





TEST NUMBER: P935178

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4598.0	4786.1	4598.0	4409.9	4362.9	3646.8	2692.1	2214.7	1906.5	1290.3	828.0
115°	4476.0	4736.8	4476.0	4215.2	4150.0	3460.2	2540.4	2080.6	1821.0	1302.1	912.9
117.5°	4217.5	4506.8	4217.5	3928.2	3856.0	3233.4	2403.3	1988.3	1767.6	1326.4	995.4
120°	4009.2	4290.3	4009.2	3728.2	3657.9	3089.0	2330.6	1951.4	1749.7	1346.1	1043.4
122.5°	3806.3	4083.5	3806.3	3529.1	3459.8	2947.5	2264.5	1923.1	1740.2	1374.4	1100.0
125°	3516.9	3772.2	3516.9	3261.5	3197.7	2762.6	2182.4	1892.3	1732.4	1412.4	1172.6
127.5°	3256.7	3472.1	3256.7	3041.1	2987.3	2613.7	2115.6	1866.5	1727.9	1450.6	1242.7
130°	3103.2	3302.3	3103.2	2904.3	2854.5	2521.9	2078.4	1856.6	1730.6	1478.5	1289.4
132.5°	2964.1	3142.4	2964.1	2785.8	2741.3	2443.5	2046.4	1848.0	1732.3	1501.0	1327.6
135°	2773.3	2927.0	2773.3	2619.7	2581.2	2331.9	1999.5	1833.3	1730.7	1525.6	1371.8
137.5°	2620.4	2746.2	2620.4	2494.7	2463.2	2252.4	1971.3	1830.8	1741.4	1562.5	1428.4
140°	2515.5	2633.0	2515.5	2397.9	2368.5	2186.4	1943.5	1822.1	1743.1	1585.1	1466.6
142.5°	2428.4	2529.6	2428.4	2327.3	2302.0	2142.1	1928.8	1822.1	1749.4	1603.9	1494.9
145°	2298.1	2374.6	2298.1	2221.5	2202.3	2071.5	1897.1	1809.9	1749.5	1628.6	1538.0
147.5°	2198.0	2261.4	2198.0	2134.6	2118.7	2015.8	1878.5	1809.9	1761.5	1664.7	1592.1
150°	2135.0	2186.4	2135.0	2083.5	2070.7	1983.7	1867.9	1809.9	1767.8	1683.6	1620.4
152.5°	2081.1	2119.9	2081.1	2042.2	2032.5	1958.3	1859.4	1809.9	1771.8	1695.8	1638.8
155°	2019.1	2044.9	2019.1	1993.4	1987.0	1927.9	1849.2	1809.9	1780.9	1722.9	1679.5
157.5°	1970.2	1988.3	1970.2	1952.2	1947.6	1901.7	1840.5	1809.9	1790.0	1750.1	1720.1
160°	1940.9	1951.4	1940.9	1930.5	1927.9	1888.6	1836.1	1809.9	1794.0	1762.3	1738.5
162.5°	1921.8	1931.7	1921.8	1912.0	1909.5	1876.3	1832.0	1809.9	1798.4	1775.4	1758.1
165°	1894.2	1904.6	1894.2	1883.8	1881.2	1857.4	1825.8	1809.9	1804.7	1794.2	1786.4
167.5°	1874.4	1878.7	1874.4	1870.0	1869.0	1853.4	1832.6	1822.1	1817.8	1809.0	1802.5
170°	1869.0	1869.0	1869.0	1869.0	1869.0	1853.4	1832.6	1822.1	1821.8	1821.3	1820.9
172.5°	1854.3	1850.4	1854.3	1858.1	1859.1	1846.8	1830.3	1822.1	1822.1	1822.1	1822.1
175°	1845.5	1845.5	1845.5	1845.5	1845.5	1837.7	1827.4	1822.1	1824.6	1829.5	1833.3
177.5°	1837.6	1833.3	1837.6	1841.9	1843.0	1836.9	1828.7	1824.6	1826.6	1830.4	1833.3
180°	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3



TEST NUMBER: P935178  
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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3171.1	3153.3	3153.3	3123.7	3111.9	3103.0	3088.3	3043.9	3032.0	3020.2	3038.0
5°	3197.7	3165.2	3141.5	3088.3	3043.9	3026.1	2969.9	2863.4	2792.5	2739.2	2709.6
7.5°	3203.6	3162.2	3117.8	3035.0	2928.5	2881.2	2709.6	2514.3	2461.1	2413.7	2384.1
10°	3197.7	3150.4	3088.3	2964.0	2712.6	2629.8	2458.1	2330.9	2298.4	2289.5	2298.4
12.5°	3177.0	3132.6	3046.8	2839.8	2487.7	2431.5	2330.9	2257.0	2251.0	2265.8	2345.7
15°	3141.5	3100.1	2999.5	2674.1	2363.4	2322.0	2251.0	2224.4	2257.0	2360.5	2600.1
17.5°	3106.0	3058.7	2934.4	2511.3	2268.8	2239.2	2188.9	2242.2	2425.6	2564.6	2644.6
20°	3058.7	3002.5	2860.5	2393.0	2200.8	2174.1	2150.5	2390.1	2529.1	2579.4	2623.8
22.5°	3002.5	2943.3	2759.9	2310.2	2129.8	2109.1	2123.8	2472.9	2529.1	2564.6	2603.0
25°	2928.5	2878.2	2641.6	2245.1	2073.6	2049.9	2106.1	2464.0	2496.6	2505.4	2582.3
27.5°	2860.5	2795.4	2517.3	2186.0	2005.5	1996.6	2120.9	2425.6	2449.2	2458.1	2540.9
30°	2777.7	2680.0	2378.2	2123.8	1934.5	1931.6	2123.8	2378.2	2372.3	2396.0	2478.8
32.5°	2691.9	2508.4	2221.5	2046.9	1866.5	1863.5	2103.1	2307.2	2301.3	2333.9	2396.0
35°	2612.0	2375.3	2008.5	1958.2	1780.7	1783.7	2052.9	2224.4	2227.4	2257.0	2295.4
37.5°	2529.1	2259.9	1774.8	1860.6	1697.9	1697.9	1984.8	2147.5	2141.6	2150.5	2203.7
40°	2431.5	2079.5	1567.7	1733.4	1621.0	1612.1	1902.0	2064.7	2044.0	2041.0	2115.0
42.5°	2327.9	1881.3	1413.9	1564.8	1532.2	1520.4	1801.4	1964.1	1925.7	1934.5	2029.2
45°	2215.5	1828.0	1295.6	1322.2	1440.5	1431.7	1692.0	1848.8	1822.1	1845.8	1943.4
47.5°	2103.1	1721.6	1257.2	1097.4	1342.9	1340.0	1570.7	1736.3	1721.6	1745.2	1848.8
50°	1949.3	1603.2	1254.2	940.6	1233.5	1245.3	1425.8	1626.9	1626.9	1647.6	1757.1
52.5°	1751.1	1458.3	1138.8	851.9	1106.3	1141.8	1298.6	1532.2	1538.2	1558.9	1656.5
55°	1570.7	1307.4	1056.0	783.9	955.4	1032.3	1174.3	1434.6	1446.5	1467.2	1555.9
57.5°	1405.0	1088.5	1038.3	704.0	816.4	890.4	1064.9	1340.0	1345.9	1363.6	1449.4
60°	1227.6	786.8	952.5	618.2	695.1	751.3	964.3	1227.6	1248.3	1260.1	1334.1
62.5°	1026.4	570.9	863.7	559.1	636.0	647.8	881.5	1121.1	1147.7	1156.6	1200.9
65°	730.6	479.2	733.6	508.8	573.9	576.8	792.7	1011.6	1035.3	1050.1	1082.6
67.5°	494.0	390.5	559.1	461.4	526.5	529.5	707.0	884.4	917.0	928.8	949.5
70°	343.1	260.3	414.1	411.2	473.3	479.2	615.3	769.1	798.7	807.5	819.4
72.5°	251.4	210.0	343.1	369.8	417.1	423.0	520.6	638.9	668.5	677.4	683.3
75°	192.3	221.8	278.1	322.4	355.0	357.9	426.0	520.6	541.3	547.2	550.2
77.5°	153.8	207.1	204.1	260.3	289.9	284.0	334.3	402.3	420.0	420.0	420.0
80°	115.4	162.7	153.8	186.4	213.0	207.1	239.6	286.9	292.8	298.8	295.8
82.5°	85.8	103.5	103.5	118.3	142.0	136.1	159.7	186.4	186.4	186.4	192.3
85°	53.2	59.2	47.3	62.1	79.9	76.9	88.7	100.6	103.5	103.5	97.6
87.5°	32.5	26.6	14.8	23.7	35.5	35.5	41.4	44.4	41.4	41.4	41.4
90°	31.9	22.2	12.3	22.2	31.9	34.4	54.1	80.4	93.5	83.1	62.3
92.5°	216.5	132.8	49.2	132.8	216.5	237.4	333.9	462.3	526.6	461.5	331.4
95°	424.4	271.2	118.1	271.2	424.4	462.6	821.4	1299.9	1539.1	1373.5	1042.1
97.5°	474.4	339.3	204.2	339.3	474.4	508.2	1106.5	1904.3	2303.2	2198.5	1989.1
100°	515.6	393.1	270.7	393.1	515.6	546.2	1210.2	2095.5	2538.3	2546.0	2561.2
102.5°	555.8	441.5	327.3	441.5	555.8	584.4	1257.8	2155.8	2604.7	2738.1	3004.9
105°	616.8	520.0	423.3	520.0	616.8	641.0	1293.1	2162.6	2597.3	2896.5	3494.7
107.5°	702.1	611.9	521.7	611.9	702.1	724.7	1299.6	2066.3	2449.6	2866.9	3701.3
110°	751.0	669.6	588.1	669.6	751.0	771.4	1289.8	1981.0	2326.6	2793.0	3725.9



TEST NUMBER: P935178

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	808.6	731.0	653.3	731.0	808.6	828.0	1290.3	1906.5	2214.7	2692.1	3646.8
115°	895.0	823.4	751.7	823.4	895.0	912.9	1302.1	1821.0	2080.6	2540.4	3460.2
117.5°	979.1	914.0	848.9	914.0	979.1	995.4	1326.4	1767.6	1988.3	2403.3	3233.4
120°	1028.1	966.8	905.5	966.8	1028.1	1043.4	1346.1	1749.7	1951.4	2330.6	3089.0
122.5°	1084.5	1022.8	961.0	1022.8	1084.5	1100.0	1374.4	1740.2	1923.1	2264.5	2947.5
125°	1158.5	1102.2	1045.9	1102.2	1158.5	1172.6	1412.4	1732.4	1892.3	2182.4	2762.6
127.5°	1228.5	1171.6	1114.7	1171.6	1228.5	1242.7	1450.6	1727.9	1866.5	2115.6	2613.7
130°	1274.1	1212.9	1151.6	1212.9	1274.1	1289.4	1478.5	1730.6	1856.6	2078.4	2521.9
132.5°	1312.3	1251.0	1189.8	1251.0	1312.3	1327.6	1501.0	1732.3	1848.0	2046.4	2443.5
135°	1357.9	1302.1	1246.4	1302.1	1357.9	1371.8	1525.6	1730.7	1833.3	1999.5	2331.9
137.5°	1414.6	1359.4	1304.2	1359.4	1414.6	1428.4	1562.5	1741.4	1830.8	1971.3	2252.4
140°	1453.9	1403.1	1352.2	1403.1	1453.9	1466.6	1585.1	1743.1	1822.1	1943.5	2186.4
142.5°	1483.1	1436.1	1389.1	1436.1	1483.1	1494.9	1603.9	1749.4	1822.1	1928.8	2142.1
145°	1527.7	1486.7	1445.7	1486.7	1527.7	1538.0	1628.6	1749.5	1809.9	1897.1	2071.5
147.5°	1582.1	1542.2	1502.3	1542.2	1582.1	1592.1	1664.7	1761.5	1809.9	1878.5	2015.8
150°	1611.3	1575.2	1539.1	1575.2	1611.3	1620.4	1683.6	1767.8	1809.9	1867.9	1983.7
152.5°	1632.0	1604.6	1577.3	1604.6	1632.0	1638.8	1695.8	1771.8	1809.9	1859.4	1958.3
155°	1674.4	1654.1	1633.9	1654.1	1674.4	1679.5	1722.9	1780.9	1809.9	1849.2	1927.9
157.5°	1715.1	1695.4	1675.7	1695.4	1715.1	1720.1	1750.1	1790.0	1809.9	1840.5	1901.7
160°	1734.7	1719.4	1704.0	1719.4	1734.7	1738.5	1762.3	1794.0	1809.9	1836.1	1888.6
162.5°	1755.3	1743.7	1732.3	1743.7	1755.3	1758.1	1775.4	1798.4	1809.9	1832.0	1876.3
165°	1783.9	1773.4	1763.1	1773.4	1783.9	1786.4	1794.2	1804.7	1809.9	1825.8	1857.4
167.5°	1801.2	1796.3	1791.4	1796.3	1801.2	1802.5	1809.0	1817.8	1822.1	1832.6	1853.4
170°	1819.8	1814.8	1809.9	1814.8	1819.8	1820.9	1821.3	1821.8	1822.1	1832.6	1853.4
172.5°	1821.8	1820.7	1819.7	1820.7	1821.8	1822.1	1822.1	1822.1	1822.1	1830.3	1846.8
175°	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1829.5	1824.6	1822.1	1827.4	1837.7
177.5°	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1830.4	1826.6	1824.6	1828.7	1836.9
180°	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3



TEST NUMBER: P935178  
 CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3017.3	3008.4	3020.2	2987.7	3020.2	3008.4	3017.3	3038.0	3020.2	3032.0	3043.9
5°	2647.5	2632.7	2585.3	2546.8	2585.3	2632.7	2647.5	2709.6	2739.2	2792.5	2863.4
7.5°	2366.4	2354.6	2342.7	2319.1	2342.7	2354.6	2366.4	2384.1	2413.7	2461.1	2514.3
10°	2304.3	2307.2	2325.0	2322.0	2325.0	2307.2	2304.3	2298.4	2289.5	2298.4	2330.9
12.5°	2464.0	2490.6	2588.2	2582.3	2588.2	2490.6	2464.0	2345.7	2265.8	2251.0	2257.0
15°	2647.5	2656.4	2677.1	2680.0	2677.1	2656.4	2647.5	2600.1	2360.5	2257.0	2224.4
17.5°	2665.3	2668.2	2683.0	2683.0	2683.0	2668.2	2665.3	2644.6	2564.6	2425.6	2242.2
20°	2650.5	2656.4	2686.0	2691.9	2686.0	2656.4	2650.5	2623.8	2579.4	2529.1	2390.1
22.5°	2644.6	2656.4	2680.0	2677.1	2680.0	2656.4	2644.6	2603.0	2564.6	2529.1	2472.9
25°	2615.0	2615.0	2617.9	2620.9	2617.9	2615.0	2615.0	2582.3	2505.4	2496.6	2464.0
27.5°	2552.8	2558.7	2576.4	2573.5	2576.4	2558.7	2552.8	2540.9	2458.1	2449.2	2425.6
30°	2496.6	2490.6	2475.8	2464.0	2475.8	2490.6	2496.6	2478.8	2396.0	2372.3	2378.2
32.5°	2401.9	2387.1	2372.3	2363.4	2372.3	2387.1	2401.9	2396.0	2333.9	2301.3	2307.2
35°	2289.5	2292.4	2289.5	2280.6	2289.5	2292.4	2289.5	2295.4	2257.0	2227.4	2224.4
37.5°	2209.6	2215.5	2212.6	2200.8	2212.6	2215.5	2209.6	2203.7	2150.5	2141.6	2147.5
40°	2126.8	2129.8	2126.8	2117.9	2126.8	2129.8	2126.8	2115.0	2041.0	2044.0	2064.7
42.5°	2046.9	2044.0	2035.1	2029.2	2035.1	2044.0	2046.9	2029.2	1934.5	1925.7	1964.1
45°	1955.2	1958.2	1940.4	1931.6	1940.4	1958.2	1955.2	1943.4	1845.8	1822.1	1848.8
47.5°	1863.5	1863.5	1848.8	1839.9	1848.8	1863.5	1863.5	1848.8	1745.2	1721.6	1736.3
50°	1765.9	1763.0	1742.3	1739.3	1742.3	1763.0	1765.9	1757.1	1647.6	1626.9	1626.9
52.5°	1653.5	1653.5	1656.5	1662.4	1656.5	1653.5	1653.5	1656.5	1558.9	1538.2	1532.2
55°	1555.9	1558.9	1579.6	1585.5	1579.6	1558.9	1555.9	1555.9	1467.2	1446.5	1434.6
57.5°	1455.3	1455.3	1470.1	1470.1	1470.1	1455.3	1455.3	1449.4	1363.6	1345.9	1340.0
60°	1340.0	1345.9	1357.7	1354.8	1357.7	1345.9	1340.0	1334.1	1260.1	1248.3	1227.6
62.5°	1218.7	1224.6	1227.6	1221.7	1227.6	1224.6	1218.7	1200.9	1156.6	1147.7	1121.1
65°	1091.5	1097.4	1100.4	1094.5	1100.4	1097.4	1091.5	1082.6	1050.1	1035.3	1011.6
67.5°	961.4	958.4	955.4	967.3	955.4	958.4	961.4	949.5	928.8	917.0	884.4
70°	828.2	828.2	825.3	831.2	825.3	828.2	828.2	819.4	807.5	798.7	769.1
72.5°	686.3	683.3	695.1	686.3	695.1	683.3	686.3	683.3	677.4	668.5	638.9
75°	547.2	553.1	547.2	556.1	547.2	553.1	547.2	550.2	547.2	541.3	520.6
77.5°	417.1	423.0	417.1	417.1	417.1	423.0	417.1	420.0	420.0	420.0	402.3
80°	295.8	292.8	292.8	289.9	292.8	292.8	295.8	295.8	298.8	292.8	286.9
82.5°	189.3	186.4	186.4	192.3	186.4	186.4	189.3	192.3	186.4	186.4	186.4
85°	103.5	106.5	100.6	100.6	100.6	106.5	103.5	97.6	103.5	103.5	100.6
87.5°	38.5	35.5	35.5	35.5	35.5	35.5	38.5	41.4	41.4	41.4	44.4
90°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	62.3	83.1	93.5	80.4
92.5°	233.8	224.5	187.2	150.1	187.2	224.5	233.8	331.4	461.5	526.6	462.3
95°	793.5	765.3	652.7	540.1	652.7	765.3	793.5	1042.1	1373.5	1539.1	1299.9
97.5°	1832.0	1778.4	1564.1	1349.7	1564.1	1778.4	1832.0	1989.1	2198.5	2303.2	1904.3
100°	2572.7	2508.9	2253.5	1998.1	2253.5	2508.9	2572.7	2561.2	2546.0	2538.3	2095.5
102.5°	3205.1	3150.4	2931.7	2713.0	2931.7	3150.4	3205.1	3004.9	2738.1	2604.7	2155.8
105°	3943.3	3913.9	3796.3	3678.8	3796.3	3913.9	3943.3	3494.7	2896.5	2597.3	2162.6
107.5°	4327.2	4334.3	4362.8	4391.2	4362.8	4334.3	4327.2	3701.3	2866.9	2449.6	2066.3
110°	4425.6	4456.2	4578.7	4701.2	4578.7	4456.2	4425.6	3725.9	2793.0	2326.6	1981.0



TEST NUMBER: P935178

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4362.9	4409.9	4598.0	4786.1	4598.0	4409.9	4362.9	3646.8	2692.1	2214.7	1906.5
115°	4150.0	4215.2	4476.0	4736.8	4476.0	4215.2	4150.0	3460.2	2540.4	2080.6	1821.0
117.5°	3856.0	3928.2	4217.5	4506.8	4217.5	3928.2	3856.0	3233.4	2403.3	1988.3	1767.6
120°	3657.9	3728.2	4009.2	4290.3	4009.2	3728.2	3657.9	3089.0	2330.6	1951.4	1749.7
122.5°	3459.8	3529.1	3806.3	4083.5	3806.3	3529.1	3459.8	2947.5	2264.5	1923.1	1740.2
125°	3197.7	3261.5	3516.9	3772.2	3516.9	3261.5	3197.7	2762.6	2182.4	1892.3	1732.4
127.5°	2987.3	3041.1	3256.7	3472.1	3256.7	3041.1	2987.3	2613.7	2115.6	1866.5	1727.9
130°	2854.5	2904.3	3103.2	3302.3	3103.2	2904.3	2854.5	2521.9	2078.4	1856.6	1730.6
132.5°	2741.3	2785.8	2964.1	3142.4	2964.1	2785.8	2741.3	2443.5	2046.4	1848.0	1732.3
135°	2581.2	2619.7	2773.3	2927.0	2773.3	2619.7	2581.2	2331.9	1999.5	1833.3	1730.7
137.5°	2463.2	2494.7	2620.4	2746.2	2620.4	2494.7	2463.2	2252.4	1971.3	1830.8	1741.4
140°	2368.5	2397.9	2515.5	2633.0	2515.5	2397.9	2368.5	2186.4	1943.5	1822.1	1743.1
142.5°	2302.0	2327.3	2428.4	2529.6	2428.4	2327.3	2302.0	2142.1	1928.8	1822.1	1749.4
145°	2202.3	2221.5	2298.1	2374.6	2298.1	2221.5	2202.3	2071.5	1897.1	1809.9	1749.5
147.5°	2118.7	2134.6	2198.0	2261.4	2198.0	2134.6	2118.7	2015.8	1878.5	1809.9	1761.5
150°	2070.7	2083.5	2135.0	2186.4	2135.0	2083.5	2070.7	1983.7	1867.9	1809.9	1767.8
152.5°	2032.5	2042.2	2081.1	2119.9	2081.1	2042.2	2032.5	1958.3	1859.4	1809.9	1771.8
155°	1987.0	1993.4	2019.1	2044.9	2019.1	1993.4	1987.0	1927.9	1849.2	1809.9	1780.9
157.5°	1947.6	1952.2	1970.2	1988.3	1970.2	1952.2	1947.6	1901.7	1840.5	1809.9	1790.0
160°	1927.9	1930.5	1940.9	1951.4	1940.9	1930.5	1927.9	1888.6	1836.1	1809.9	1794.0
162.5°	1909.5	1912.0	1921.8	1931.7	1921.8	1912.0	1909.5	1876.3	1832.0	1809.9	1798.4
165°	1881.2	1883.8	1894.2	1904.6	1894.2	1883.8	1881.2	1857.4	1825.8	1809.9	1804.7
167.5°	1869.0	1870.0	1874.4	1878.7	1874.4	1870.0	1869.0	1853.4	1832.6	1822.1	1817.8
170°	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1853.4	1832.6	1822.1	1821.8
172.5°	1859.1	1858.1	1854.3	1850.4	1854.3	1858.1	1859.1	1846.8	1830.3	1822.1	1822.1
175°	1845.5	1845.5	1845.5	1845.5	1845.5	1845.5	1845.5	1837.7	1827.4	1822.1	1824.6
177.5°	1843.0	1841.9	1837.6	1833.3	1837.6	1841.9	1843.0	1836.9	1828.7	1824.6	1826.6
180°	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3	1833.3



TEST NUMBER: P935178

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3088.3	3103.0	3111.9	3123.7	3153.3
5°	2969.9	3026.1	3043.9	3088.3	3141.5
7.5°	2709.6	2881.2	2928.5	3035.0	3117.8
10°	2458.1	2629.8	2712.6	2964.0	3088.3
12.5°	2330.9	2431.5	2487.7	2839.8	3046.8
15°	2251.0	2322.0	2363.4	2674.1	2999.5
17.5°	2188.9	2239.2	2268.8	2511.3	2934.4
20°	2150.5	2174.1	2200.8	2393.0	2860.5
22.5°	2123.8	2109.1	2129.8	2310.2	2759.9
25°	2106.1	2049.9	2073.6	2245.1	2641.6
27.5°	2120.9	1996.6	2005.5	2186.0	2517.3
30°	2123.8	1931.6	1934.5	2123.8	2378.2
32.5°	2103.1	1863.5	1866.5	2046.9	2221.5
35°	2052.9	1783.7	1780.7	1958.2	2008.5
37.5°	1984.8	1697.9	1697.9	1860.6	1774.8
40°	1902.0	1612.1	1621.0	1733.4	1567.7
42.5°	1801.4	1520.4	1532.2	1564.8	1413.9
45°	1692.0	1431.7	1440.5	1322.2	1295.6
47.5°	1570.7	1340.0	1342.9	1097.4	1257.2
50°	1425.8	1245.3	1233.5	940.6	1254.2
52.5°	1298.6	1141.8	1106.3	851.9	1138.8
55°	1174.3	1032.3	955.4	783.9	1056.0
57.5°	1064.9	890.4	816.4	704.0	1038.3
60°	964.3	751.3	695.1	618.2	952.5
62.5°	881.5	647.8	636.0	559.1	863.7
65°	792.7	576.8	573.9	508.8	733.6
67.5°	707.0	529.5	526.5	461.4	559.1
70°	615.3	479.2	473.3	411.2	414.1
72.5°	520.6	423.0	417.1	369.8	343.1
75°	426.0	357.9	355.0	322.4	278.1
77.5°	334.3	284.0	289.9	260.3	204.1
80°	239.6	207.1	213.0	186.4	153.8
82.5°	159.7	136.1	142.0	118.3	103.5
85°	88.7	76.9	79.9	62.1	47.3
87.5°	41.4	35.5	35.5	23.7	14.8
90°	54.1	34.4	31.9	22.2	12.3
92.5°	333.9	237.4	216.5	132.8	49.2
95°	821.4	462.6	424.4	271.2	118.1
97.5°	1106.5	508.2	474.4	339.3	204.2
100°	1210.2	546.2	515.6	393.1	270.7
102.5°	1257.8	584.4	555.8	441.5	327.3
105°	1293.1	641.0	616.8	520.0	423.3
107.5°	1299.6	724.7	702.1	611.9	521.7
110°	1289.8	771.4	751.0	669.6	588.1



TEST NUMBER: P935178

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1290.3	828.0	808.6	731.0	653.3
115°	1302.1	912.9	895.0	823.4	751.7
117.5°	1326.4	995.4	979.1	914.0	848.9
120°	1346.1	1043.4	1028.1	966.8	905.5
122.5°	1374.4	1100.0	1084.5	1022.8	961.0
125°	1412.4	1172.6	1158.5	1102.2	1045.9
127.5°	1450.6	1242.7	1228.5	1171.6	1114.7
130°	1478.5	1289.4	1274.1	1212.9	1151.6
132.5°	1501.0	1327.6	1312.3	1251.0	1189.8
135°	1525.6	1371.8	1357.9	1302.1	1246.4
137.5°	1562.5	1428.4	1414.6	1359.4	1304.2
140°	1585.1	1466.6	1453.9	1403.1	1352.2
142.5°	1603.9	1494.9	1483.1	1436.1	1389.1
145°	1628.6	1538.0	1527.7	1486.7	1445.7
147.5°	1664.7	1592.1	1582.1	1542.2	1502.3
150°	1683.6	1620.4	1611.3	1575.2	1539.1
152.5°	1695.8	1638.8	1632.0	1604.6	1577.3
155°	1722.9	1679.5	1674.4	1654.1	1633.9
157.5°	1750.1	1720.1	1715.1	1695.4	1675.7
160°	1762.3	1738.5	1734.7	1719.4	1704.0
162.5°	1775.4	1758.1	1755.3	1743.7	1732.3
165°	1794.2	1786.4	1783.9	1773.4	1763.1
167.5°	1809.0	1802.5	1801.2	1796.3	1791.4
170°	1821.3	1820.9	1819.8	1814.8	1809.9
172.5°	1822.1	1822.1	1821.8	1820.7	1819.7
175°	1829.5	1833.3	1833.3	1833.3	1833.3
177.5°	1830.4	1833.3	1833.3	1833.3	1833.3
180°	1833.3	1833.3	1833.3	1833.3	1833.3



TEST NUMBER: P935178  
 CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**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	11.76	12.54	12.79	13.58	14.98	14.61	15.39	15.64	16.43	17.83
	3H	12.23	12.93	13.27	13.98	15.40	15.95	16.65	17.00	17.70	19.12
	4H	12.41	13.08	13.47	14.13	15.56	16.40	17.06	17.45	18.11	19.54
	6H	12.53	13.14	13.60	14.20	15.63	16.68	17.30	17.75	18.35	19.79
	8H	12.53	13.11	13.60	14.18	15.61	16.76	17.34	17.83	18.41	19.85
	12H	12.50	13.05	13.57	14.11	15.57	16.80	17.35	17.87	18.42	19.87
4H	2H	12.78	13.45	13.85	14.50	15.93	15.01	15.67	16.07	16.72	18.15
	3H	13.80	14.36	14.87	15.44	16.88	16.51	17.06	17.58	18.14	19.58
	4H	14.08	14.58	15.15	15.65	17.12	17.04	17.55	18.12	18.62	20.08
	6H	14.20	14.63	15.28	15.73	17.18	17.41	17.84	18.49	18.94	20.39
	8H	14.20	14.61	15.29	15.69	17.16	17.51	17.92	18.60	19.01	20.48
	12H	14.16	14.53	15.27	15.63	17.11	17.57	17.94	18.67	19.04	20.51
8H	4H	14.53	14.93	15.61	16.02	17.49	17.16	17.56	18.24	18.65	20.12
	6H	14.79	15.12	15.89	16.25	17.72	17.60	17.93	18.70	19.06	20.53
	8H	14.83	15.12	15.94	16.23	17.72	17.75	18.05	18.87	19.16	20.64
	12H	14.81	15.07	15.93	16.17	17.70	17.85	18.11	18.97	19.21	20.74
12H	4H	14.53	14.90	15.63	16.00	17.47	17.12	17.49	18.22	18.59	20.06
	6H	14.85	15.14	15.96	16.25	17.74	17.59	17.89	18.71	19.00	20.48
	8H	14.91	15.17	16.03	16.27	17.80	17.75	18.01	18.87	19.12	20.64