

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: P936147

Luminaire Tested: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936147
REPORT IS A COMBINATION OF REPORTS P933784 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

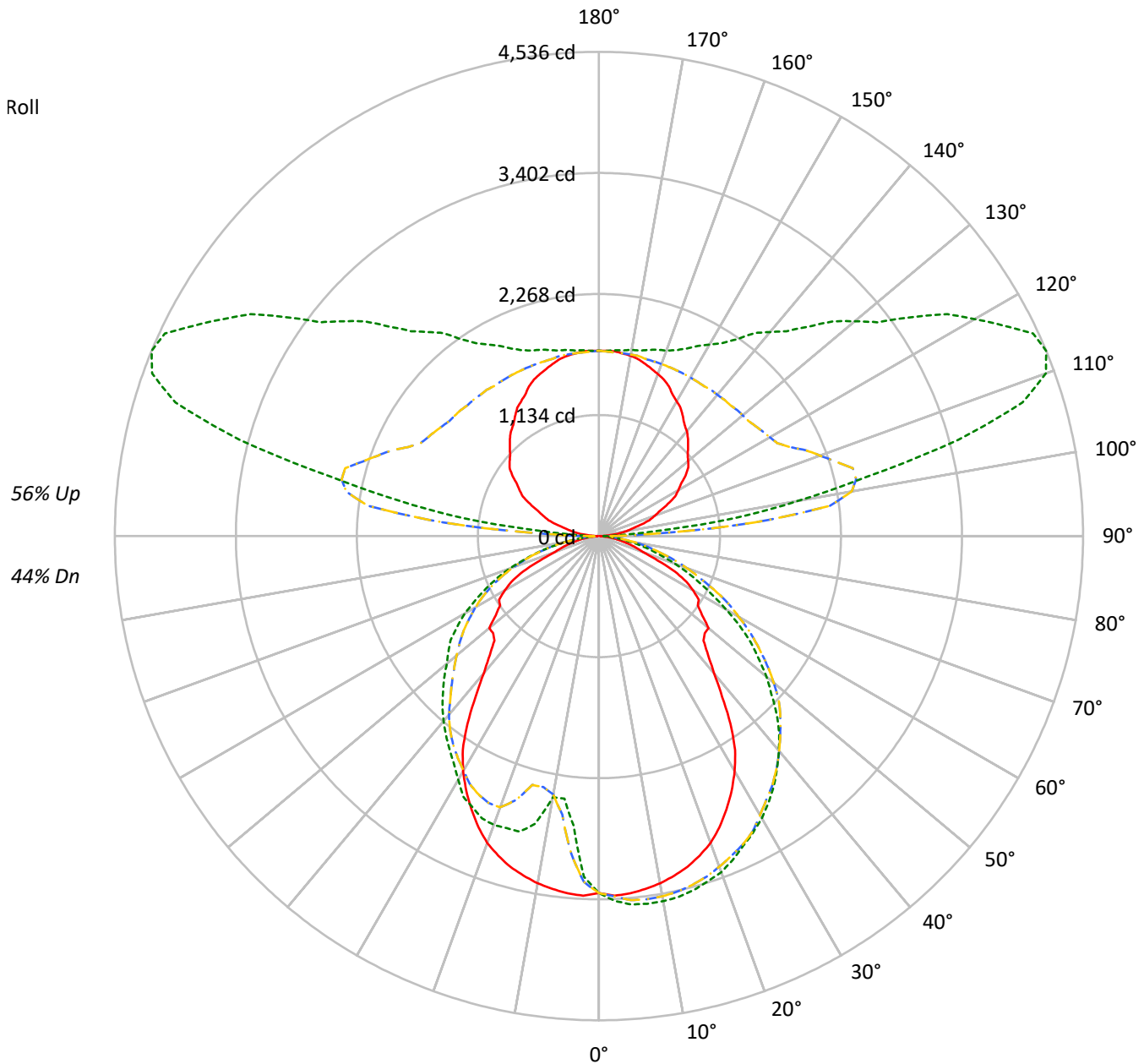
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19938.2 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 166.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44	44	44	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37	37	37	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31	31	31	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26	26	26	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22	22	22	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19	19	19	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17	17	17	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15	15	15	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13	13	13	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	16	18	15	13	11	11	11	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15513	15513	15513	15513
5°	15629	15660	15629	12313
10°	15524	15425	15524	11028
15°	15356	15091	15356	12602
20°	15035	14695	15035	12628
25°	14378	14118	14378	12360
30°	13528	13639	13528	11773
35°	12060	13032	12060	11127
40°	10049	12319	10049	10639
45°	8979	11483	8979	10078
50°	9539	10486	9539	9516
55°	8975	9413	8975	9190
60°	9251	7994	9251	8417
65°	8388	6608	8388	7387
70°	5809	5266	5809	6192
75°	5092	3893	5092	4662
80°	4104	2574	4104	2802
85°	2357	1364	2357	1159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	1.5
10°-20°	856.9	4.3
20°-30°	1324.7	6.6
30°-40°	1581.4	7.9
40°-50°	1590.7	8.0
50°-60°	1384.1	6.9
60°-70°	981.3	4.9
70°-80°	519.2	2.6
80°-90°	135.9	0.7
90°-100°	846.9	4.2
100°-110°	2226.4	11.2
110°-120°	2308.5	11.6
120°-130°	1851.7	9.3
130°-140°	1452.9	7.3
140°-150°	1115.2	5.6
150°-160°	803.1	4.0
160°-170°	491.4	2.5
170°-180°	166.0	0.8
0°-30°	2483.5	12.5
0°-40°	4064.9	20.4
0°-60°	7039.6	35.3
0°-90°	8676.0	43.5
90°-120°	5381.8	27.0
90°-150°	9801.7	49.2
90°-180°	11262.0	56.5
0°-180°	19938.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3344	3344	3344	3344	3344	
5°	3359	3464	3359	2724	3359	319
15°	3208	3432	3208	2866	3208	902
25°	2825	3201	2825	2803	2825	1297
35°	2148	2856	2148	2439	2148	1329
45°	1386	2354	1386	2066	1386	1110
55°	1129	1737	1129	1696	1129	1038
65°	784	1047	784	1170	784	750
75°	297	497	297	595	297	313
85°	51	127	51	108	51	68
90°	12	44	12	44	12	12
95°	112	512	112	512	112	124
105°	401	3486	401	3486	401	425
115°	712	4489	712	4489	712	704
125°	991	3575	991	3575	991	880
135°	1181	2774	1181	2774	1181	914
145°	1370	2250	1370	2250	1370	858
155°	1548	1938	1548	1938	1548	711
165°	1671	1805	1671	1805	1671	472
175°	1737	1749	1737	1749	1737	165
180°	1737	1737	1737	1737	1737	



TEST NUMBER: P936147

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6
2.5°	3372.0	3372.0	3391.0	3397.4	3397.4	3387.9	3378.4	3387.9	3416.4	3425.9	3422.7
5°	3359.4	3384.8	3419.5	3425.9	3432.1	3429.1	3422.7	3429.1	3460.7	3467.0	3470.2
7.5°	3334.1	3381.6	3425.9	3435.3	3444.9	3435.3	3432.1	3438.5	3470.2	3476.5	3476.5
10°	3302.5	3369.0	3419.5	3425.9	3435.3	3425.9	3425.9	3438.5	3470.2	3476.5	3479.6
12.5°	3258.2	3349.9	3397.4	3403.7	3416.4	3413.2	3410.1	3422.7	3454.3	3460.7	3460.7
15°	3207.6	3315.1	3359.4	3365.8	3387.9	3381.6	3381.6	3394.2	3429.1	3438.5	3435.3
17.5°	3138.0	3270.8	3321.5	3330.9	3346.8	3343.6	3346.8	3359.4	3391.0	3397.4	3400.6
20°	3058.9	3210.7	3270.8	3280.4	3296.1	3296.1	3296.1	3311.9	3343.6	3356.2	3356.2
22.5°	2951.3	3147.5	3210.7	3217.1	3236.0	3236.0	3242.4	3264.6	3293.0	3296.1	3296.1
25°	2824.9	3077.9	3131.6	3150.6	3169.6	3179.1	3188.7	3201.3	3210.7	3207.6	3210.7
27.5°	2692.0	2989.3	3058.9	3071.5	3096.9	3106.4	3119.0	3122.2	3125.4	3134.8	3128.5
30°	2543.3	2866.0	2970.3	2983.0	3024.1	3030.4	3017.8	3024.1	3039.9	3046.3	3052.6
32.5°	2375.6	2682.5	2878.6	2907.1	2945.1	2926.1	2922.9	2932.4	2957.7	2957.7	2964.0
35°	2147.9	2540.2	2793.2	2818.5	2846.9	2824.9	2837.5	2840.7	2856.5	2866.0	2862.8
37.5°	1898.0	2416.8	2704.7	2723.6	2745.8	2717.3	2736.3	2745.8	2758.4	2752.1	2752.1
40°	1676.6	2223.8	2600.3	2612.9	2631.9	2609.7	2628.7	2635.0	2641.4	2635.0	2631.9
42.5°	1512.1	2011.9	2489.5	2505.3	2492.7	2508.5	2514.8	2527.4	2518.0	2505.3	2505.3
45°	1385.5	1954.9	2369.3	2388.3	2369.3	2394.6	2404.2	2404.2	2375.6	2369.3	2366.1
47.5°	1344.4	1841.0	2249.1	2249.1	2239.6	2271.2	2287.0	2264.9	2236.5	2226.9	2226.9
50°	1341.2	1714.5	2084.6	2072.0	2116.3	2154.2	2138.4	2116.3	2094.1	2059.3	2059.3
52.5°	1217.8	1559.5	1872.7	1920.2	1989.7	2011.9	1986.5	1964.4	1926.4	1910.6	1898.0
55°	1129.3	1398.2	1679.8	1774.6	1847.4	1875.9	1828.4	1806.2	1749.3	1739.9	1733.5
57.5°	1110.3	1164.1	1502.5	1622.7	1711.4	1708.2	1679.8	1638.6	1591.2	1581.6	1578.5
60°	1018.5	841.4	1312.8	1455.2	1546.8	1537.4	1512.1	1474.1	1429.8	1423.5	1417.2
62.5°	923.7	610.5	1097.6	1259.0	1388.7	1385.5	1363.4	1306.4	1274.8	1259.0	1246.3
65°	784.5	512.5	781.3	1047.1	1233.7	1240.0	1192.6	1151.5	1116.6	1097.6	1094.5
67.5°	597.8	417.5	528.3	873.1	1085.0	1078.7	1018.5	999.6	955.4	945.8	926.9
70°	442.9	278.4	367.0	708.6	939.5	923.7	876.2	854.1	813.0	790.9	778.1
72.5°	367.0	224.6	268.9	550.4	790.9	771.9	730.8	705.4	670.7	651.7	639.0
75°	297.3	237.2	205.6	408.1	642.1	629.5	591.6	566.2	537.7	512.5	515.6
77.5°	218.3	221.4	164.5	300.5	509.3	490.3	468.2	436.5	423.9	398.6	398.6
80°	164.5	173.9	123.4	205.6	367.0	367.0	348.0	325.8	303.7	291.1	291.1
82.5°	110.7	110.7	91.7	129.7	249.9	240.4	227.8	221.4	208.8	202.5	202.5
85°	50.6	63.3	56.9	79.1	136.0	142.4	142.4	136.0	132.8	126.6	129.7
87.5°	15.8	28.5	34.8	44.3	69.6	72.7	75.9	75.9	75.9	79.1	79.1
90°	11.7	21.0	30.3	32.6	51.3	76.2	88.6	78.8	59.1	44.3	44.3
92.5°	46.6	125.9	205.3	225.1	316.4	438.2	499.0	437.3	314.1	221.5	212.7
95°	112.0	257.0	402.1	438.4	778.4	1231.8	1458.6	1301.6	987.6	752.1	725.3
97.5°	193.6	321.5	449.6	481.6	1048.6	1804.7	2182.7	2083.5	1885.0	1736.1	1685.4
100°	256.5	372.6	488.7	517.7	1147.0	1985.9	2405.4	2412.7	2427.2	2438.0	2377.5
102.5°	310.1	418.5	526.7	553.8	1192.0	2042.9	2468.4	2594.8	2847.7	3037.3	2985.5
105°	401.1	492.8	584.6	607.5	1225.4	2049.3	2461.4	2744.9	3311.8	3737.0	3709.1
107.5°	494.4	579.9	665.3	686.7	1231.7	1958.2	2321.4	2716.8	3507.7	4100.7	4107.5
110°	557.4	634.6	711.8	731.0	1222.3	1877.4	2204.9	2646.9	3530.9	4194.0	4223.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	619.1	692.7	766.3	784.7	1222.7	1806.7	2098.7	2551.1	3455.9	4134.5	4179.1
115°	712.4	780.3	848.2	865.2	1234.0	1725.7	1971.7	2407.4	3279.0	3932.8	3994.6
117.5°	804.5	866.2	927.9	943.3	1256.9	1675.1	1884.2	2277.5	3064.2	3654.1	3722.7
120°	858.2	916.2	974.2	988.7	1275.6	1658.0	1849.2	2208.6	2927.4	3466.5	3533.0
122.5°	910.6	969.2	1027.7	1042.4	1302.4	1649.1	1822.4	2146.0	2793.3	3278.7	3344.4
125°	991.1	1044.4	1097.8	1111.2	1338.5	1641.6	1793.2	2068.1	2617.9	3030.3	3090.8
127.5°	1056.4	1110.2	1164.2	1177.6	1374.7	1637.4	1768.7	2004.8	2476.9	2830.9	2882.0
130°	1091.4	1149.4	1207.5	1221.9	1401.1	1639.9	1759.4	1969.5	2389.9	2705.0	2752.2
132.5°	1127.5	1185.6	1243.6	1258.1	1422.5	1641.7	1751.3	1939.3	2315.5	2597.7	2640.0
135°	1181.1	1234.0	1286.9	1300.1	1445.8	1640.1	1737.2	1894.8	2209.9	2446.2	2482.6
137.5°	1236.0	1288.3	1340.6	1353.6	1480.8	1650.2	1735.0	1868.2	2134.5	2334.2	2364.1
140°	1281.4	1329.6	1377.8	1389.8	1502.2	1651.9	1726.8	1841.8	2072.0	2244.5	2272.4
142.5°	1316.3	1360.9	1405.5	1416.6	1520.0	1657.9	1726.8	1827.8	2029.9	2181.5	2205.4
145°	1370.0	1408.9	1447.8	1457.5	1543.4	1657.9	1715.1	1797.7	1963.1	2087.1	2105.2
147.5°	1423.7	1461.5	1499.4	1508.8	1577.6	1669.3	1715.1	1780.1	1910.2	2007.7	2022.8
150°	1458.6	1492.8	1527.0	1535.5	1595.4	1675.2	1715.1	1770.1	1879.9	1962.3	1974.5
152.5°	1494.8	1520.7	1546.7	1553.1	1607.1	1679.1	1715.1	1762.0	1855.8	1926.1	1935.3
155°	1548.4	1567.6	1586.8	1591.5	1632.7	1687.6	1715.1	1752.4	1827.1	1883.1	1889.1
157.5°	1588.1	1606.8	1625.4	1630.0	1658.4	1696.2	1715.1	1744.2	1802.2	1845.8	1850.1
160°	1614.9	1629.4	1643.9	1647.5	1670.0	1700.0	1715.1	1740.0	1789.8	1827.1	1829.5
162.5°	1641.7	1652.6	1663.5	1666.2	1682.5	1704.2	1715.1	1736.1	1778.1	1809.6	1811.9
165°	1670.8	1680.6	1690.5	1692.9	1700.3	1710.1	1715.1	1730.1	1760.2	1782.8	1785.2
167.5°	1697.6	1702.3	1707.0	1708.2	1714.3	1722.7	1726.8	1736.6	1756.3	1771.1	1772.1
170°	1715.1	1719.8	1724.4	1725.7	1726.0	1726.5	1726.8	1736.6	1756.3	1771.1	1771.1
172.5°	1724.4	1725.5	1726.5	1726.8	1726.8	1726.8	1726.8	1734.5	1750.1	1761.7	1760.8
175°	1737.2	1737.2	1737.2	1737.2	1733.8	1729.1	1726.8	1731.7	1741.5	1748.9	1748.9
177.5°	1737.2	1737.2	1737.2	1737.2	1734.5	1730.9	1729.1	1733.0	1740.8	1746.6	1745.6
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6
2.5°	3429.1	3419.5	3429.1	3422.7	3425.9	3416.4	3387.9	3378.4	3387.9	3397.4	3397.4
5°	3470.2	3463.8	3470.2	3470.2	3467.0	3460.7	3429.1	3422.7	3429.1	3432.1	3425.9
7.5°	3482.8	3473.3	3482.8	3476.5	3476.5	3470.2	3438.5	3432.1	3435.3	3444.9	3435.3
10°	3482.8	3473.3	3482.8	3479.6	3476.5	3470.2	3438.5	3425.9	3425.9	3435.3	3425.9
12.5°	3467.0	3460.7	3467.0	3460.7	3460.7	3454.3	3422.7	3410.1	3413.2	3416.4	3403.7
15°	3441.7	3432.1	3441.7	3435.3	3438.5	3429.1	3394.2	3381.6	3381.6	3387.9	3365.8
17.5°	3403.7	3391.0	3403.7	3400.6	3397.4	3391.0	3359.4	3346.8	3343.6	3346.8	3330.9
20°	3359.4	3349.9	3359.4	3356.2	3356.2	3343.6	3311.9	3296.1	3296.1	3296.1	3280.4
22.5°	3289.8	3280.4	3289.8	3296.1	3296.1	3293.0	3264.6	3242.4	3236.0	3236.0	3217.1
25°	3210.7	3201.3	3210.7	3210.7	3207.6	3210.7	3201.3	3188.7	3179.1	3169.6	3150.6
27.5°	3134.8	3128.5	3134.8	3128.5	3134.8	3125.4	3122.2	3119.0	3106.4	3096.9	3071.5
30°	3058.9	3052.6	3058.9	3052.6	3046.3	3039.9	3024.1	3017.8	3030.4	3024.1	2983.0
32.5°	2964.0	2957.7	2964.0	2964.0	2957.7	2957.7	2932.4	2922.9	2926.1	2945.1	2907.1
35°	2866.0	2856.5	2866.0	2862.8	2866.0	2856.5	2840.7	2837.5	2824.9	2846.9	2818.5
37.5°	2752.1	2742.6	2752.1	2752.1	2752.1	2758.4	2745.8	2736.3	2717.3	2745.8	2723.6
40°	2635.0	2622.4	2635.0	2631.9	2635.0	2641.4	2635.0	2628.7	2609.7	2631.9	2612.9
42.5°	2502.2	2499.0	2502.2	2505.3	2505.3	2518.0	2527.4	2514.8	2508.5	2492.7	2505.3
45°	2359.9	2353.5	2359.9	2366.1	2369.3	2375.6	2404.2	2404.2	2394.6	2369.3	2388.3
47.5°	2208.0	2192.2	2208.0	2226.9	2226.9	2236.5	2264.9	2287.0	2271.2	2239.6	2249.1
50°	2046.6	2049.8	2046.6	2059.3	2059.3	2094.1	2116.3	2138.4	2154.2	2116.3	2072.0
52.5°	1888.5	1885.3	1888.5	1898.0	1910.6	1926.4	1964.4	1986.5	2011.9	1989.7	1920.2
55°	1730.3	1736.7	1730.3	1733.5	1739.9	1749.3	1806.2	1828.4	1875.9	1847.4	1774.6
57.5°	1572.2	1562.6	1572.2	1578.5	1581.6	1591.2	1638.6	1679.8	1708.2	1711.4	1622.7
60°	1388.7	1376.1	1388.7	1417.2	1423.5	1429.8	1474.1	1512.1	1537.4	1546.8	1455.2
62.5°	1227.4	1205.2	1227.4	1246.3	1259.0	1274.8	1306.4	1363.4	1385.5	1388.7	1259.0
65°	1056.5	1047.1	1056.5	1094.5	1097.6	1116.6	1151.5	1192.6	1240.0	1233.7	1047.1
67.5°	901.5	901.5	901.5	926.9	945.8	955.4	999.6	1018.5	1078.7	1085.0	873.1
70°	759.2	756.0	759.2	778.1	790.9	813.0	854.1	876.2	923.7	939.5	708.6
72.5°	623.2	620.0	623.2	639.0	651.7	670.7	705.4	730.8	771.9	790.9	550.4
75°	503.0	496.6	503.0	515.6	512.5	537.7	566.2	591.6	629.5	642.1	408.1
77.5°	385.9	385.9	385.9	398.6	398.6	423.9	436.5	468.2	490.3	509.3	300.5
80°	287.9	284.7	287.9	291.1	291.1	303.7	325.8	348.0	367.0	367.0	205.6
82.5°	202.5	196.1	202.5	202.5	202.5	208.8	221.4	227.8	240.4	249.9	129.7
85°	126.6	126.6	126.6	129.7	126.6	132.8	136.0	142.4	142.4	136.0	79.1
87.5°	82.3	79.1	82.3	79.1	79.1	75.9	75.9	75.9	72.7	69.6	44.3
90°	44.3	44.3	44.3	44.3	44.3	59.1	78.8	88.6	76.2	51.3	32.6
92.5°	177.5	142.3	177.5	212.7	221.5	314.1	437.3	499.0	438.2	316.4	225.1
95°	618.6	511.8	618.6	725.3	752.1	987.6	1301.6	1458.6	1231.8	778.4	438.4
97.5°	1482.2	1279.1	1482.2	1685.4	1736.1	1885.0	2083.5	2182.7	1804.7	1048.6	481.6
100°	2135.5	1893.5	2135.5	2377.5	2438.0	2427.2	2412.7	2405.4	1985.9	1147.0	517.7
102.5°	2778.2	2571.0	2778.2	2985.5	3037.3	2847.7	2594.8	2468.4	2042.9	1192.0	553.8
105°	3597.7	3486.3	3597.7	3709.1	3737.0	3311.8	2744.9	2461.4	2049.3	1225.4	607.5
107.5°	4134.4	4161.3	4134.4	4107.5	4100.7	3507.7	2716.8	2321.4	1958.2	1231.7	686.7
110°	4339.1	4455.2	4339.1	4223.0	4194.0	3530.9	2646.9	2204.9	1877.4	1222.3	731.0



TEST NUMBER: P936147

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4357.3	4535.6	4357.3	4179.1	4134.5	3455.9	2551.1	2098.7	1806.7	1222.7	784.7
115°	4241.8	4488.9	4241.8	3994.6	3932.8	3279.0	2407.4	1971.7	1725.7	1234.0	865.2
117.5°	3996.8	4271.0	3996.8	3722.7	3654.1	3064.2	2277.5	1884.2	1675.1	1256.9	943.3
120°	3799.4	4065.7	3799.4	3533.0	3466.5	2927.4	2208.6	1849.2	1658.0	1275.6	988.7
122.5°	3607.1	3869.9	3607.1	3344.4	3278.7	2793.3	2146.0	1822.4	1649.1	1302.4	1042.4
125°	3332.9	3574.9	3332.9	3090.8	3030.3	2617.9	2068.1	1793.2	1641.6	1338.5	1111.2
127.5°	3086.2	3290.4	3086.2	2882.0	2830.9	2476.9	2004.8	1768.7	1637.4	1374.7	1177.6
130°	2940.9	3129.5	2940.9	2752.2	2705.0	2389.9	1969.5	1759.4	1639.9	1401.1	1221.9
132.5°	2808.9	2977.9	2808.9	2640.0	2597.7	2315.5	1939.3	1751.3	1641.7	1422.5	1258.1
135°	2628.2	2773.8	2628.2	2482.6	2446.2	2209.9	1894.8	1737.2	1640.1	1445.8	1300.1
137.5°	2483.2	2602.4	2483.2	2364.1	2334.2	2134.5	1868.2	1735.0	1650.2	1480.8	1353.6
140°	2383.8	2495.2	2383.8	2272.4	2244.5	2072.0	1841.8	1726.8	1651.9	1502.2	1389.8
142.5°	2301.3	2397.2	2301.3	2205.4	2181.5	2029.9	1827.8	1726.8	1657.9	1520.0	1416.6
145°	2177.8	2250.3	2177.8	2105.2	2087.1	1963.1	1797.7	1715.1	1657.9	1543.4	1457.5
147.5°	2082.9	2143.0	2082.9	2022.8	2007.7	1910.2	1780.1	1715.1	1669.3	1577.6	1508.8
150°	2023.3	2072.0	2023.3	1974.5	1962.3	1879.9	1770.1	1715.1	1675.2	1595.4	1535.5
152.5°	1972.1	2009.0	1972.1	1935.3	1926.1	1855.8	1762.0	1715.1	1679.1	1607.1	1553.1
155°	1913.5	1937.8	1913.5	1889.1	1883.1	1827.1	1752.4	1715.1	1687.6	1632.7	1591.5
157.5°	1867.1	1884.2	1867.1	1850.1	1845.8	1802.2	1744.2	1715.1	1696.2	1658.4	1630.0
160°	1839.4	1849.2	1839.4	1829.5	1827.1	1789.8	1740.0	1715.1	1700.0	1670.0	1647.5
162.5°	1821.2	1830.5	1821.2	1811.9	1809.6	1778.1	1736.1	1715.1	1704.2	1682.5	1666.2
165°	1795.1	1804.9	1795.1	1785.2	1782.8	1760.2	1730.1	1715.1	1710.1	1700.3	1692.9
167.5°	1776.3	1780.4	1776.3	1772.1	1771.1	1756.3	1736.6	1726.8	1722.7	1714.3	1708.2
170°	1771.1	1771.1	1771.1	1771.1	1771.1	1756.3	1736.6	1726.8	1726.5	1726.0	1725.7
172.5°	1757.2	1753.6	1757.2	1760.8	1761.7	1750.1	1734.5	1726.8	1726.8	1726.8	1726.8
175°	1748.9	1748.9	1748.9	1748.9	1748.9	1741.5	1731.7	1726.8	1729.1	1733.8	1737.2
177.5°	1741.4	1737.2	1741.4	1745.6	1746.6	1740.8	1733.0	1729.1	1730.9	1734.5	1737.2
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



TEST NUMBER: P936147

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6
2.5°	3391.0	3372.0	3372.0	3340.5	3327.8	3318.3	3302.5	3255.0	3242.4	3229.7	3248.8
5°	3419.5	3384.8	3359.4	3302.5	3255.0	3236.0	3175.9	3062.1	2986.2	2929.2	2897.6
7.5°	3425.9	3381.6	3334.1	3245.6	3131.6	3081.1	2897.6	2688.8	2631.9	2581.3	2549.6
10°	3419.5	3369.0	3302.5	3169.6	2900.8	2812.2	2628.7	2492.7	2457.9	2448.4	2457.9
12.5°	3397.4	3349.9	3258.2	3036.8	2660.4	2600.3	2492.7	2413.6	2407.2	2423.1	2508.5
15°	3359.4	3315.1	3207.6	2859.6	2527.4	2483.2	2407.2	2378.8	2413.6	2524.4	2780.6
17.5°	3321.5	3270.8	3138.0	2685.7	2426.2	2394.6	2340.9	2397.8	2593.9	2742.6	2828.0
20°	3270.8	3210.7	3058.9	2559.1	2353.5	2325.0	2299.8	2556.0	2704.7	2758.4	2805.9
22.5°	3210.7	3147.5	2951.3	2470.5	2277.6	2255.4	2271.2	2644.6	2704.7	2742.6	2783.7
25°	3131.6	3077.9	2824.9	2401.0	2217.5	2192.2	2252.3	2635.0	2669.8	2679.3	2761.6
27.5°	3058.9	2989.3	2692.0	2337.7	2144.7	2135.2	2268.1	2593.9	2619.2	2628.7	2717.3
30°	2970.3	2866.0	2543.3	2271.2	2068.8	2065.6	2271.2	2543.3	2537.0	2562.3	2650.8
32.5°	2878.6	2682.5	2375.6	2189.0	1996.1	1992.9	2249.1	2467.3	2461.1	2495.9	2562.3
35°	2793.2	2540.2	2147.9	2094.1	1904.3	1907.5	2195.3	2378.8	2382.0	2413.6	2454.7
37.5°	2704.7	2416.8	1898.0	1989.7	1815.8	1815.8	2122.5	2296.6	2290.2	2299.8	2356.7
40°	2600.3	2223.8	1676.6	1853.7	1733.5	1724.0	2034.0	2208.0	2185.8	2182.7	2261.8
42.5°	2489.5	2011.9	1512.1	1673.4	1638.6	1625.9	1926.4	2100.5	2059.3	2068.8	2170.0
45°	2369.3	1954.9	1385.5	1414.0	1540.5	1531.0	1809.4	1977.1	1948.6	1973.9	2078.3
47.5°	2249.1	1841.0	1344.4	1173.6	1436.2	1433.0	1679.8	1856.9	1841.0	1866.3	1977.1
50°	2084.6	1714.5	1341.2	1005.9	1319.1	1331.8	1524.7	1739.9	1739.9	1761.9	1879.0
52.5°	1872.7	1559.5	1217.8	911.1	1183.1	1221.0	1388.7	1638.6	1644.9	1667.0	1771.5
55°	1679.8	1398.2	1129.3	838.2	1021.7	1104.0	1255.9	1534.2	1546.8	1569.0	1663.9
57.5°	1502.5	1164.1	1110.3	752.9	873.1	952.2	1138.8	1433.0	1439.3	1458.3	1550.0
60°	1312.8	841.4	1018.5	661.1	743.4	803.5	1031.3	1312.8	1334.9	1347.6	1426.6
62.5°	1097.6	610.5	923.7	597.8	680.1	692.8	942.7	1198.9	1227.4	1236.9	1284.3
65°	781.3	512.5	784.5	544.1	613.6	616.8	847.8	1081.8	1107.2	1123.0	1157.7
67.5°	528.3	417.5	597.8	493.4	563.1	566.2	756.0	945.8	980.6	993.3	1015.5
70°	367.0	278.4	442.9	439.7	506.1	512.5	657.9	822.4	854.1	863.6	876.2
72.5°	268.9	224.6	367.0	395.4	446.0	452.4	556.7	683.3	714.9	724.4	730.8
75°	205.6	237.2	297.3	344.8	379.6	382.8	455.5	556.7	578.9	585.2	588.4
77.5°	164.5	221.4	218.3	278.4	310.0	303.7	357.4	430.2	449.2	449.2	449.2
80°	123.4	173.9	164.5	199.3	227.8	221.4	256.2	306.9	313.1	319.5	316.3
82.5°	91.7	110.7	110.7	126.6	151.8	145.5	170.9	199.3	199.3	199.3	205.6
85°	56.9	63.3	50.6	66.5	85.4	82.3	94.9	107.6	110.7	110.7	104.4
87.5°	34.8	28.5	15.8	25.3	37.9	37.9	44.3	47.5	44.3	44.3	44.3
90°	30.3	21.0	11.7	21.0	30.3	32.6	51.3	76.2	88.6	78.8	59.1
92.5°	205.3	125.9	46.6	125.9	205.3	225.1	316.4	438.2	499.0	437.3	314.1
95°	402.1	257.0	112.0	257.0	402.1	438.4	778.4	1231.8	1458.6	1301.6	987.6
97.5°	449.6	321.5	193.6	321.5	449.6	481.6	1048.6	1804.7	2182.7	2083.5	1885.0
100°	488.7	372.6	256.5	372.6	488.7	517.7	1147.0	1985.9	2405.4	2412.7	2427.2
102.5°	526.7	418.5	310.1	418.5	526.7	553.8	1192.0	2042.9	2468.4	2594.8	2847.7
105°	584.6	492.8	401.1	492.8	584.6	607.5	1225.4	2049.3	2461.4	2744.9	3311.8
107.5°	665.3	579.9	494.4	579.9	665.3	686.7	1231.7	1958.2	2321.4	2716.8	3507.7
110°	711.8	634.6	557.4	634.6	711.8	731.0	1222.3	1877.4	2204.9	2646.9	3530.9



TEST NUMBER: P936147

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	766.3	692.7	619.1	692.7	766.3	784.7	1222.7	1806.7	2098.7	2551.1	3455.9
115°	848.2	780.3	712.4	780.3	848.2	865.2	1234.0	1725.7	1971.7	2407.4	3279.0
117.5°	927.9	866.2	804.5	866.2	927.9	943.3	1256.9	1675.1	1884.2	2277.5	3064.2
120°	974.2	916.2	858.2	916.2	974.2	988.7	1275.6	1658.0	1849.2	2208.6	2927.4
122.5°	1027.7	969.2	910.6	969.2	1027.7	1042.4	1302.4	1649.1	1822.4	2146.0	2793.3
125°	1097.8	1044.4	991.1	1044.4	1097.8	1111.2	1338.5	1641.6	1793.2	2068.1	2617.9
127.5°	1164.2	1110.2	1056.4	1110.2	1164.2	1177.6	1374.7	1637.4	1768.7	2004.8	2476.9
130°	1207.5	1149.4	1091.4	1149.4	1207.5	1221.9	1401.1	1639.9	1759.4	1969.5	2389.9
132.5°	1243.6	1185.6	1127.5	1185.6	1243.6	1258.1	1422.5	1641.7	1751.3	1939.3	2315.5
135°	1286.9	1234.0	1181.1	1234.0	1286.9	1300.1	1445.8	1640.1	1737.2	1894.8	2209.9
137.5°	1340.6	1288.3	1236.0	1288.3	1340.6	1353.6	1480.8	1650.2	1735.0	1868.2	2134.5
140°	1377.8	1329.6	1281.4	1329.6	1377.8	1389.8	1502.2	1651.9	1726.8	1841.8	2072.0
142.5°	1405.5	1360.9	1316.3	1360.9	1405.5	1416.6	1520.0	1657.9	1726.8	1827.8	2029.9
145°	1447.8	1408.9	1370.0	1408.9	1447.8	1457.5	1543.4	1657.9	1715.1	1797.7	1963.1
147.5°	1499.4	1461.5	1423.7	1461.5	1499.4	1508.8	1577.6	1669.3	1715.1	1780.1	1910.2
150°	1527.0	1492.8	1458.6	1492.8	1527.0	1535.5	1595.4	1675.2	1715.1	1770.1	1879.9
152.5°	1546.7	1520.7	1494.8	1520.7	1546.7	1553.1	1607.1	1679.1	1715.1	1762.0	1855.8
155°	1586.8	1567.6	1548.4	1567.6	1586.8	1591.5	1632.7	1687.6	1715.1	1752.4	1827.1
157.5°	1625.4	1606.8	1588.1	1606.8	1625.4	1630.0	1658.4	1696.2	1715.1	1744.2	1802.2
160°	1643.9	1629.4	1614.9	1629.4	1643.9	1647.5	1670.0	1700.0	1715.1	1740.0	1789.8
162.5°	1663.5	1652.6	1641.7	1652.6	1663.5	1666.2	1682.5	1704.2	1715.1	1736.1	1778.1
165°	1690.5	1680.6	1670.8	1680.6	1690.5	1692.9	1700.3	1710.1	1715.1	1730.1	1760.2
167.5°	1707.0	1702.3	1697.6	1702.3	1707.0	1708.2	1714.3	1722.7	1726.8	1736.6	1756.3
170°	1724.4	1719.8	1715.1	1719.8	1724.4	1725.7	1726.0	1726.5	1726.8	1736.6	1756.3
172.5°	1726.5	1725.5	1724.4	1725.5	1726.5	1726.8	1726.8	1726.8	1726.8	1734.5	1750.1
175°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1733.8	1729.1	1726.8	1731.7	1741.5
177.5°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1734.5	1730.9	1729.1	1733.0	1740.8
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



TEST NUMBER: P936147

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6
2.5°	3226.6	3217.1	3229.7	3194.9	3229.7	3217.1	3226.6	3248.8	3229.7	3242.4	3255.0
5°	2831.1	2815.3	2764.8	2723.6	2764.8	2815.3	2831.1	2897.6	2929.2	2986.2	3062.1
7.5°	2530.6	2518.0	2505.3	2480.1	2505.3	2518.0	2530.6	2549.6	2581.3	2631.9	2688.8
10°	2464.3	2467.3	2486.3	2483.2	2486.3	2467.3	2464.3	2457.9	2448.4	2457.9	2492.7
12.5°	2635.0	2663.5	2767.9	2761.6	2767.9	2663.5	2635.0	2508.5	2423.1	2407.2	2413.6
15°	2831.1	2840.7	2862.8	2866.0	2862.8	2840.7	2831.1	2780.6	2524.4	2413.6	2378.8
17.5°	2850.1	2853.3	2869.1	2869.1	2869.1	2853.3	2850.1	2828.0	2742.6	2593.9	2397.8
20°	2834.3	2840.7	2872.3	2878.6	2872.3	2840.7	2834.3	2805.9	2758.4	2704.7	2556.0
22.5°	2828.0	2840.7	2866.0	2862.8	2866.0	2840.7	2828.0	2783.7	2742.6	2704.7	2644.6
25°	2796.4	2796.4	2799.5	2802.7	2799.5	2796.4	2796.4	2761.6	2679.3	2669.8	2635.0
27.5°	2729.9	2736.3	2755.2	2752.1	2755.2	2736.3	2729.9	2717.3	2628.7	2619.2	2593.9
30°	2669.8	2663.5	2647.6	2635.0	2647.6	2663.5	2669.8	2650.8	2562.3	2537.0	2543.3
32.5°	2568.6	2552.8	2537.0	2527.4	2537.0	2552.8	2568.6	2562.3	2495.9	2461.1	2467.3
35°	2448.4	2451.5	2448.4	2438.9	2448.4	2451.5	2448.4	2454.7	2413.6	2382.0	2378.8
37.5°	2363.0	2369.3	2366.1	2353.5	2366.1	2369.3	2363.0	2356.7	2299.8	2290.2	2296.6
40°	2274.4	2277.6	2274.4	2264.9	2274.4	2277.6	2274.4	2261.8	2182.7	2185.8	2208.0
42.5°	2189.0	2185.8	2176.4	2170.0	2176.4	2185.8	2189.0	2170.0	2068.8	2059.3	2100.5
45°	2090.9	2094.1	2075.1	2065.6	2075.1	2094.1	2090.9	2078.3	1973.9	1948.6	1977.1
47.5°	1992.9	1992.9	1977.1	1967.6	1977.1	1992.9	1992.9	1977.1	1866.3	1841.0	1856.9
50°	1888.5	1885.3	1863.1	1860.1	1863.1	1885.3	1888.5	1879.0	1761.9	1739.9	1739.9
52.5°	1768.3	1768.3	1771.5	1777.8	1771.5	1768.3	1768.3	1771.5	1667.0	1644.9	1638.6
55°	1663.9	1667.0	1689.2	1695.6	1689.2	1667.0	1663.9	1663.9	1569.0	1546.8	1534.2
57.5°	1556.4	1556.4	1572.2	1572.2	1572.2	1556.4	1556.4	1550.0	1458.3	1439.3	1433.0
60°	1433.0	1439.3	1452.0	1448.8	1452.0	1439.3	1433.0	1426.6	1347.6	1334.9	1312.8
62.5°	1303.3	1309.6	1312.8	1306.4	1312.8	1309.6	1303.3	1284.3	1236.9	1227.4	1198.9
65°	1167.3	1173.6	1176.8	1170.4	1176.8	1173.6	1167.3	1157.7	1123.0	1107.2	1081.8
67.5°	1028.1	1024.9	1021.7	1034.4	1021.7	1024.9	1028.1	1015.5	993.3	980.6	945.8
70°	885.7	885.7	882.5	888.9	882.5	885.7	885.7	876.2	863.6	854.1	822.4
72.5°	733.9	730.8	743.4	733.9	743.4	730.8	733.9	730.8	724.4	714.9	683.3
75°	585.2	591.6	585.2	594.7	585.2	591.6	585.2	588.4	585.2	578.9	556.7
77.5°	446.0	452.4	446.0	446.0	446.0	452.4	446.0	449.2	449.2	449.2	430.2
80°	316.3	313.1	313.1	310.0	313.1	313.1	316.3	316.3	319.5	313.1	306.9
82.5°	202.5	199.3	199.3	205.6	199.3	199.3	202.5	205.6	199.3	199.3	199.3
85°	110.7	113.8	107.6	107.6	107.6	113.8	110.7	104.4	110.7	110.7	107.6
87.5°	41.1	37.9	37.9	37.9	37.9	37.9	41.1	44.3	44.3	44.3	47.5
90°	44.3	44.3	44.3	44.3	44.3	44.3	44.3	59.1	78.8	88.6	76.2
92.5°	221.5	212.7	177.5	142.3	177.5	212.7	221.5	314.1	437.3	499.0	438.2
95°	752.1	725.3	618.6	511.8	618.6	725.3	752.1	987.6	1301.6	1458.6	1231.8
97.5°	1736.1	1685.4	1482.2	1279.1	1482.2	1685.4	1736.1	1885.0	2083.5	2182.7	1804.7
100°	2438.0	2377.5	2135.5	1893.5	2135.5	2377.5	2438.0	2427.2	2412.7	2405.4	1985.9
102.5°	3037.3	2985.5	2778.2	2571.0	2778.2	2985.5	3037.3	2847.7	2594.8	2468.4	2042.9
105°	3737.0	3709.1	3597.7	3486.3	3597.7	3709.1	3737.0	3311.8	2744.9	2461.4	2049.3
107.5°	4100.7	4107.5	4134.4	4161.3	4134.4	4107.5	4100.7	3507.7	2716.8	2321.4	1958.2
110°	4194.0	4223.0	4339.1	4455.2	4339.1	4223.0	4194.0	3530.9	2646.9	2204.9	1877.4



TEST NUMBER: P936147

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4134.5	4179.1	4357.3	4535.6	4357.3	4179.1	4134.5	3455.9	2551.1	2098.7	1806.7
115°	3932.8	3994.6	4241.8	4488.9	4241.8	3994.6	3932.8	3279.0	2407.4	1971.7	1725.7
117.5°	3654.1	3722.7	3996.8	4271.0	3996.8	3722.7	3654.1	3064.2	2277.5	1884.2	1675.1
120°	3466.5	3533.0	3799.4	4065.7	3799.4	3533.0	3466.5	2927.4	2208.6	1849.2	1658.0
122.5°	3278.7	3344.4	3607.1	3869.9	3607.1	3344.4	3278.7	2793.3	2146.0	1822.4	1649.1
125°	3030.3	3090.8	3332.9	3574.9	3332.9	3090.8	3030.3	2617.9	2068.1	1793.2	1641.6
127.5°	2830.9	2882.0	3086.2	3290.4	3086.2	2882.0	2830.9	2476.9	2004.8	1768.7	1637.4
130°	2705.0	2752.2	2940.9	3129.5	2940.9	2752.2	2705.0	2389.9	1969.5	1759.4	1639.9
132.5°	2597.7	2640.0	2808.9	2977.9	2808.9	2640.0	2597.7	2315.5	1939.3	1751.3	1641.7
135°	2446.2	2482.6	2628.2	2773.8	2628.2	2482.6	2446.2	2209.9	1894.8	1737.2	1640.1
137.5°	2334.2	2364.1	2483.2	2602.4	2483.2	2364.1	2334.2	2134.5	1868.2	1735.0	1650.2
140°	2244.5	2272.4	2383.8	2495.2	2383.8	2272.4	2244.5	2072.0	1841.8	1726.8	1651.9
142.5°	2181.5	2205.4	2301.3	2397.2	2301.3	2205.4	2181.5	2029.9	1827.8	1726.8	1657.9
145°	2087.1	2105.2	2177.8	2250.3	2177.8	2105.2	2087.1	1963.1	1797.7	1715.1	1657.9
147.5°	2007.7	2022.8	2082.9	2143.0	2082.9	2022.8	2007.7	1910.2	1780.1	1715.1	1669.3
150°	1962.3	1974.5	2023.3	2072.0	2023.3	1974.5	1962.3	1879.9	1770.1	1715.1	1675.2
152.5°	1926.1	1935.3	1972.1	2009.0	1972.1	1935.3	1926.1	1855.8	1762.0	1715.1	1679.1
155°	1883.1	1889.1	1913.5	1937.8	1913.5	1889.1	1883.1	1827.1	1752.4	1715.1	1687.6
157.5°	1845.8	1850.1	1867.1	1884.2	1867.1	1850.1	1845.8	1802.2	1744.2	1715.1	1696.2
160°	1827.1	1829.5	1839.4	1849.2	1839.4	1829.5	1827.1	1789.8	1740.0	1715.1	1700.0
162.5°	1809.6	1811.9	1821.2	1830.5	1821.2	1811.9	1809.6	1778.1	1736.1	1715.1	1704.2
165°	1782.8	1785.2	1795.1	1804.9	1795.1	1785.2	1782.8	1760.2	1730.1	1715.1	1710.1
167.5°	1771.1	1772.1	1776.3	1780.4	1776.3	1772.1	1771.1	1756.3	1736.6	1726.8	1722.7
170°	1771.1	1771.1	1771.1	1771.1	1771.1	1771.1	1771.1	1756.3	1736.6	1726.8	1726.5
172.5°	1761.7	1760.8	1757.2	1753.6	1757.2	1760.8	1761.7	1750.1	1734.5	1726.8	1726.8
175°	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1741.5	1731.7	1726.8	1729.1
177.5°	1746.6	1745.6	1741.4	1737.2	1741.4	1745.6	1746.6	1740.8	1733.0	1729.1	1730.9
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



TEST NUMBER: P936147

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3343.6	3343.6	3343.6	3343.6	3343.6
2.5°	3302.5	3318.3	3327.8	3340.5	3372.0
5°	3175.9	3236.0	3255.0	3302.5	3359.4
7.5°	2897.6	3081.1	3131.6	3245.6	3334.1
10°	2628.7	2812.2	2900.8	3169.6	3302.5
12.5°	2492.7	2600.3	2660.4	3036.8	3258.2
15°	2407.2	2483.2	2527.4	2859.6	3207.6
17.5°	2340.9	2394.6	2426.2	2685.7	3138.0
20°	2299.8	2325.0	2353.5	2559.1	3058.9
22.5°	2271.2	2255.4	2277.6	2470.5	2951.3
25°	2252.3	2192.2	2217.5	2401.0	2824.9
27.5°	2268.1	2135.2	2144.7	2337.7	2692.0
30°	2271.2	2065.6	2068.8	2271.2	2543.3
32.5°	2249.1	1992.9	1996.1	2189.0	2375.6
35°	2195.3	1907.5	1904.3	2094.1	2147.9
37.5°	2122.5	1815.8	1815.8	1989.7	1898.0
40°	2034.0	1724.0	1733.5	1853.7	1676.6
42.5°	1926.4	1625.9	1638.6	1673.4	1512.1
45°	1809.4	1531.0	1540.5	1414.0	1385.5
47.5°	1679.8	1433.0	1436.2	1173.6	1344.4
50°	1524.7	1331.8	1319.1	1005.9	1341.2
52.5°	1388.7	1221.0	1183.1	911.1	1217.8
55°	1255.9	1104.0	1021.7	838.2	1129.3
57.5°	1138.8	952.2	873.1	752.9	1110.3
60°	1031.3	803.5	743.4	661.1	1018.5
62.5°	942.7	692.8	680.1	597.8	923.7
65°	847.8	616.8	613.6	544.1	784.5
67.5°	756.0	566.2	563.1	493.4	597.8
70°	657.9	512.5	506.1	439.7	442.9
72.5°	556.7	452.4	446.0	395.4	367.0
75°	455.5	382.8	379.6	344.8	297.3
77.5°	357.4	303.7	310.0	278.4	218.3
80°	256.2	221.4	227.8	199.3	164.5
82.5°	170.9	145.5	151.8	126.6	110.7
85°	94.9	82.3	85.4	66.5	50.6
87.5°	44.3	37.9	37.9	25.3	15.8
90°	51.3	32.6	30.3	21.0	11.7
92.5°	316.4	225.1	205.3	125.9	46.6
95°	778.4	438.4	402.1	257.0	112.0
97.5°	1048.6	481.6	449.6	321.5	193.6
100°	1147.0	517.7	488.7	372.6	256.5
102.5°	1192.0	553.8	526.7	418.5	310.1
105°	1225.4	607.5	584.6	492.8	401.1
107.5°	1231.7	686.7	665.3	579.9	494.4
110°	1222.3	731.0	711.8	634.6	557.4



TEST NUMBER: P936147

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1222.7	784.7	766.3	692.7	619.1
115°	1234.0	865.2	848.2	780.3	712.4
117.5°	1256.9	943.3	927.9	866.2	804.5
120°	1275.6	988.7	974.2	916.2	858.2
122.5°	1302.4	1042.4	1027.7	969.2	910.6
125°	1338.5	1111.2	1097.8	1044.4	991.1
127.5°	1374.7	1177.6	1164.2	1110.2	1056.4
130°	1401.1	1221.9	1207.5	1149.4	1091.4
132.5°	1422.5	1258.1	1243.6	1185.6	1127.5
135°	1445.8	1300.1	1286.9	1234.0	1181.1
137.5°	1480.8	1353.6	1340.6	1288.3	1236.0
140°	1502.2	1389.8	1377.8	1329.6	1281.4
142.5°	1520.0	1416.6	1405.5	1360.9	1316.3
145°	1543.4	1457.5	1447.8	1408.9	1370.0
147.5°	1577.6	1508.8	1499.4	1461.5	1423.7
150°	1595.4	1535.5	1527.0	1492.8	1458.6
152.5°	1607.1	1553.1	1546.7	1520.7	1494.8
155°	1632.7	1591.5	1586.8	1567.6	1548.4
157.5°	1658.4	1630.0	1625.4	1606.8	1588.1
160°	1670.0	1647.5	1643.9	1629.4	1614.9
162.5°	1682.5	1666.2	1663.5	1652.6	1641.7
165°	1700.3	1692.9	1690.5	1680.6	1670.8
167.5°	1714.3	1708.2	1707.0	1702.3	1697.6
170°	1726.0	1725.7	1724.4	1719.8	1715.1
172.5°	1726.8	1726.8	1726.5	1725.5	1724.4
175°	1733.8	1737.2	1737.2	1737.2	1737.2
177.5°	1734.5	1737.2	1737.2	1737.2	1737.2
180°	1737.2	1737.2	1737.2	1737.2	1737.2



TEST NUMBER: P936147
 CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-8-5000K

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	13.70	14.51	14.71	15.53	16.89	16.54	17.35	17.55	18.37	19.73
	3H	14.17	14.90	15.20	15.93	17.31	17.88	18.61	18.90	19.63	21.02
	4H	14.36	15.05	15.40	16.08	17.47	18.33	19.01	19.36	20.04	21.43
	6H	14.48	15.11	15.52	16.15	17.55	18.61	19.24	19.65	20.28	21.68
	8H	14.48	15.08	15.53	16.13	17.53	18.68	19.28	19.73	20.34	21.73
	12H	14.45	15.02	15.50	16.06	17.48	18.72	19.29	19.78	20.34	21.76
4H	2H	14.73	15.41	15.77	16.45	17.83	16.94	17.63	17.98	18.66	20.05
	3H	15.75	16.32	16.80	17.38	18.78	18.44	19.01	19.49	20.08	21.48
	4H	16.03	16.55	17.08	17.60	19.02	18.97	19.49	20.03	20.55	21.97
	6H	16.15	16.60	17.21	17.67	19.09	19.34	19.78	20.40	20.86	22.28
	8H	16.15	16.57	17.22	17.64	19.07	19.44	19.86	20.51	20.93	22.36
	12H	16.12	16.49	17.20	17.58	19.02	19.50	19.88	20.58	20.96	22.40
8H	4H	16.48	16.89	17.54	17.96	19.40	19.09	19.51	20.16	20.58	22.01
	6H	16.74	17.08	17.82	18.19	19.62	19.53	19.87	20.62	20.98	22.42
	8H	16.78	17.08	17.87	18.17	19.62	19.68	19.98	20.78	21.08	22.53
	12H	16.76	17.03	17.86	18.11	19.60	19.78	20.05	20.88	21.13	22.62
12H	4H	16.48	16.86	17.56	17.94	19.38	19.05	19.43	20.14	20.51	21.95
	6H	16.80	17.10	17.89	18.19	19.64	19.52	19.83	20.62	20.92	22.37
	8H	16.86	17.13	17.96	18.21	19.71	19.68	19.95	20.78	21.04	22.53