

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: P935956

Luminaire Tested: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935956
REPORT IS A COMBINATION OF REPORTS P933773 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

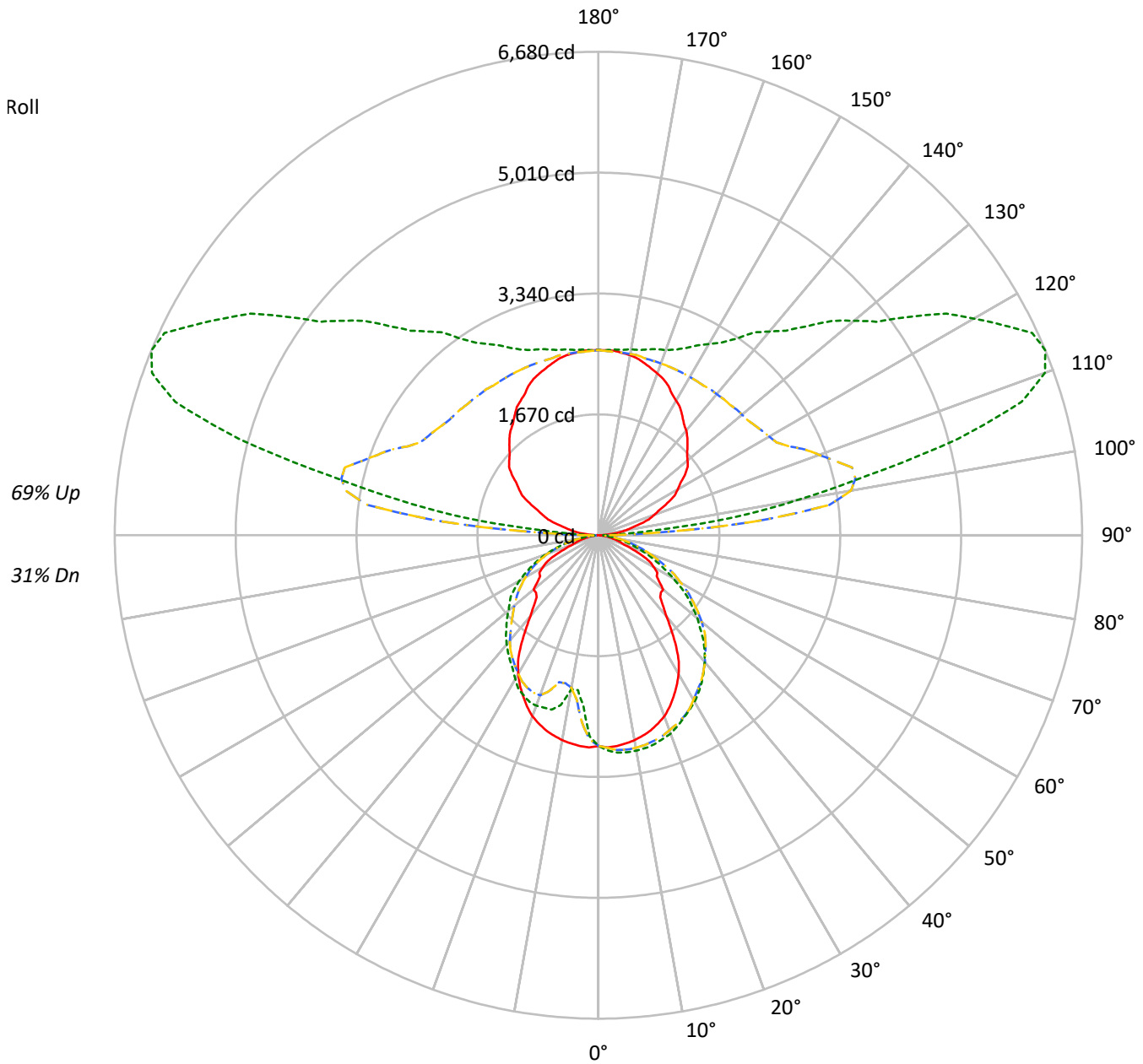
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24140.8 lumens
Efficiency: N/A
Efficacy: 126.5 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: Semi-Indirect

Input Watts (W): 190.8
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9001	9001	9001	9001
5°	9072	9086	9072	7144
10°	9014	8950	9014	6399
15°	8920	8757	8920	7312
20°	8737	8527	8737	7327
25°	8358	8192	8358	7172
30°	7868	7914	7868	6831
35°	7017	7562	7017	6456
40°	5851	7147	5851	6173
45°	5231	6662	5231	5848
50°	5562	6084	5562	5521
55°	5238	5461	5238	5332
60°	5406	4638	5406	4883
65°	4910	3834	4910	4286
70°	3407	3056	3407	3593
75°	3000	2259	3000	2705
80°	2436	1493	2436	1626
85°	1426	791	1426	672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8012 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	1.1
10°-20°	745.8	3.1
20°-30°	1152.9	4.8
30°-40°	1376.3	5.7
40°-50°	1384.4	5.7
50°-60°	1204.6	5.0
60°-70°	854.1	3.5
70°-80°	451.9	1.9
80°-90°	122.3	0.5
90°-100°	1247.1	5.2
100°-110°	3278.8	13.6
110°-120°	3399.8	14.1
120°-130°	2727.0	11.3
130°-140°	2139.7	8.9
140°-150°	1642.3	6.8
150°-160°	1182.8	4.9
160°-170°	723.7	3.0
170°-180°	244.5	1.0
0°-30°	2161.4	9.0
0°-40°	3537.8	14.7
0°-60°	6126.8	25.4
0°-90°	7555.0	31.3
90°-120°	7925.7	32.8
90°-150°	14434.9	59.8
90°-180°	16586.0	68.7
0°-180°	24140.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2910	2910	2910	2910	2910	
5°	2924	3015	2924	2370	2924	277
15°	2792	2987	2792	2494	2792	785
25°	2459	2786	2459	2439	2459	1129
35°	1869	2486	1869	2123	1869	1157
45°	1206	2048	1206	1798	1206	966
55°	983	1511	983	1476	983	903
65°	683	911	683	1019	683	653
75°	259	432	259	518	259	272
85°	44	110	44	94	44	59
90°	17	65	17	65	17	16
95°	165	754	165	754	165	183
105°	591	5134	591	5134	591	626
115°	1049	6611	1049	6611	1049	1036
125°	1460	5265	1460	5265	1460	1296
135°	1739	4085	1739	4085	1739	1346
145°	2018	3314	2018	3314	2018	1264
155°	2280	2854	2280	2854	2280	1048
165°	2461	2658	2461	2658	2461	694
175°	2558	2576	2558	2576	2558	243
180°	2558	2558	2558	2558	2558	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	2934.9	2934.9	2951.4	2956.9	2956.9	2948.6	2940.4	2948.6	2973.4	2981.7	2978.9
5°	2923.9	2945.9	2976.2	2981.7	2987.2	2984.4	2978.9	2984.4	3012.0	3017.5	3020.2
7.5°	2901.8	2943.1	2981.7	2989.9	2998.2	2989.9	2987.2	2992.7	3020.2	3025.7	3025.7
10°	2874.3	2932.1	2976.2	2981.7	2989.9	2981.7	2981.7	2992.7	3020.2	3025.7	3028.5
12.5°	2835.8	2915.6	2956.9	2962.4	2973.4	2970.7	2967.9	2978.9	3006.5	3012.0	3012.0
15°	2791.7	2885.3	2923.9	2929.4	2948.6	2943.1	2943.1	2954.2	2984.4	2992.7	2989.9
17.5°	2731.2	2846.8	2890.8	2899.1	2912.9	2910.1	2912.9	2923.9	2951.4	2956.9	2959.7
20°	2662.3	2794.5	2846.8	2855.0	2868.8	2868.8	2868.8	2882.6	2910.1	2921.1	2921.1
22.5°	2568.7	2739.4	2794.5	2800.0	2816.5	2816.5	2822.0	2841.3	2866.1	2868.8	2868.8
25°	2458.6	2678.8	2725.6	2742.2	2758.7	2766.9	2775.2	2786.2	2794.5	2791.7	2794.5
27.5°	2342.9	2601.8	2662.3	2673.3	2695.4	2703.6	2714.6	2717.4	2720.1	2728.4	2722.9
30°	2213.5	2494.4	2585.2	2596.3	2632.0	2637.5	2626.5	2632.0	2645.8	2651.3	2656.8
32.5°	2067.6	2334.6	2505.4	2530.2	2563.2	2546.7	2543.9	2552.2	2574.2	2574.2	2579.7
35°	1869.3	2210.7	2431.1	2453.1	2477.9	2458.6	2469.6	2472.4	2486.1	2494.4	2491.6
37.5°	1651.9	2103.4	2353.9	2370.4	2389.7	2364.9	2381.4	2389.7	2400.7	2395.2	2395.2
40°	1459.1	1935.4	2263.0	2274.0	2290.6	2271.3	2287.8	2293.3	2298.8	2293.3	2290.6
42.5°	1316.0	1751.0	2166.7	2180.4	2169.4	2183.2	2188.7	2199.7	2191.5	2180.4	2180.4
45°	1205.9	1701.4	2062.1	2078.6	2062.1	2084.1	2092.3	2092.3	2067.6	2062.1	2059.3
47.5°	1170.1	1602.3	1957.4	1957.4	1949.2	1976.7	1990.5	1971.2	1946.4	1938.2	1938.2
50°	1167.3	1492.2	1814.3	1803.3	1841.8	1874.9	1861.1	1841.8	1822.5	1792.3	1792.3
52.5°	1059.9	1357.3	1629.8	1671.1	1731.7	1751.0	1728.9	1709.7	1676.6	1662.9	1651.9
55°	982.9	1216.9	1461.9	1544.5	1607.8	1632.6	1591.3	1572.0	1522.5	1514.2	1508.7
57.5°	966.3	1013.1	1307.7	1412.3	1489.4	1486.7	1461.9	1426.1	1384.8	1376.5	1373.8
60°	886.5	732.3	1142.5	1266.4	1346.3	1338.0	1316.0	1282.9	1244.4	1238.9	1233.4
62.5°	803.9	531.3	955.3	1095.7	1208.6	1205.9	1186.6	1137.0	1109.5	1095.7	1084.7
65°	682.8	446.0	680.0	911.3	1073.7	1079.2	1037.9	1002.1	971.8	955.3	952.6
67.5°	520.3	363.4	459.8	759.9	944.3	938.8	886.5	870.0	831.4	823.2	806.7
70°	385.4	242.3	319.4	616.7	817.7	803.9	762.6	743.3	707.5	688.3	677.3
72.5°	319.4	195.5	234.0	479.0	688.3	671.8	636.0	613.9	583.7	567.1	556.1
75°	258.8	206.5	179.0	355.1	558.9	547.9	514.8	492.8	468.0	446.0	448.8
77.5°	190.0	192.7	143.2	261.5	443.2	426.7	407.5	379.9	368.9	346.9	346.9
80°	143.2	151.4	107.4	179.0	319.4	319.4	302.8	283.6	264.3	253.3	253.3
82.5°	96.4	96.4	79.8	112.9	217.5	209.2	198.2	192.7	181.7	176.2	176.2
85°	44.0	55.1	49.6	68.8	118.4	123.9	123.9	118.4	115.6	110.1	112.9
87.5°	13.8	24.8	30.3	38.5	60.6	63.3	66.1	66.1	66.1	68.8	68.8
90°	17.2	30.9	44.7	48.1	75.5	112.1	130.5	116.0	87.0	65.2	65.2
92.5°	68.6	185.4	302.2	331.4	465.9	645.2	734.9	644.0	462.4	326.2	313.3
95°	164.8	378.5	592.2	645.6	1146.5	1814.3	2148.1	1916.9	1454.5	1107.6	1068.3
97.5°	285.0	473.5	662.0	709.2	1544.3	2657.7	3214.4	3068.3	2776.0	2556.8	2482.0
100°	377.7	548.7	719.7	762.4	1689.1	2924.6	3542.4	3553.0	3574.4	3590.5	3501.4
102.5°	456.7	616.2	775.7	815.6	1755.5	3008.6	3635.2	3821.4	4193.8	4473.1	4396.8
105°	590.7	725.8	860.9	894.7	1804.7	3018.1	3624.8	4042.3	4877.2	5503.3	5462.3
107.5°	728.1	854.0	979.9	1011.4	1813.8	2883.8	3418.8	4001.1	5165.6	6039.1	6049.0
110°	820.8	934.5	1048.2	1076.6	1800.2	2764.7	3247.1	3898.1	5200.0	6176.5	6219.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	911.8	1020.2	1128.6	1155.7	1800.7	2660.8	3090.8	3757.0	5089.5	6088.9	6154.5
115°	1049.2	1149.1	1249.2	1274.1	1817.3	2541.6	2903.7	3545.5	4829.1	5791.8	5882.9
117.5°	1184.8	1275.6	1366.4	1389.1	1851.0	2466.9	2774.8	3354.1	4512.6	5381.5	5482.4
120°	1263.8	1349.3	1434.7	1456.1	1878.5	2441.7	2723.4	3252.6	4311.1	5105.0	5203.1
122.5°	1341.0	1427.3	1513.6	1535.1	1918.1	2428.6	2683.9	3160.4	4113.7	4828.5	4925.3
125°	1459.6	1538.1	1616.8	1636.4	1971.3	2417.8	2640.9	3045.8	3855.5	4462.8	4551.9
127.5°	1555.7	1635.1	1714.4	1734.3	2024.4	2411.4	2604.9	2952.5	3647.7	4169.2	4244.3
130°	1607.3	1692.7	1778.1	1799.5	2063.3	2415.2	2591.1	2900.6	3519.5	3983.7	4053.2
132.5°	1660.5	1745.9	1831.4	1852.7	2094.8	2417.7	2579.1	2856.1	3410.2	3825.8	3888.0
135°	1739.4	1817.2	1895.1	1914.6	2129.2	2415.5	2558.5	2790.5	3254.5	3602.5	3656.1
137.5°	1820.2	1897.2	1974.3	1993.6	2180.7	2430.2	2555.0	2751.2	3143.5	3437.7	3481.6
140°	1887.1	1958.1	2029.1	2046.8	2212.2	2432.7	2543.0	2712.4	3051.3	3305.4	3346.5
142.5°	1938.6	2004.2	2069.9	2086.3	2238.5	2441.5	2543.0	2691.9	2989.5	3212.8	3248.1
145°	2017.6	2074.9	2132.1	2146.4	2272.9	2441.5	2525.9	2647.6	2891.0	3073.6	3100.3
147.5°	2096.6	2152.3	2208.0	2221.9	2323.2	2458.3	2525.9	2621.7	2813.2	2956.9	2979.0
150°	2148.1	2198.5	2248.9	2261.5	2349.6	2467.1	2525.9	2606.8	2768.6	2889.9	2907.8
152.5°	2201.4	2239.5	2277.6	2287.2	2366.7	2472.8	2525.9	2595.0	2733.1	2836.7	2850.3
155°	2280.4	2308.6	2336.8	2343.9	2404.5	2485.4	2525.9	2580.8	2690.8	2773.2	2782.2
157.5°	2338.7	2366.2	2393.6	2400.5	2442.3	2498.0	2525.9	2568.6	2654.1	2718.2	2724.5
160°	2378.2	2399.6	2421.0	2426.3	2459.5	2503.7	2525.9	2562.5	2635.7	2690.7	2694.4
162.5°	2417.7	2433.7	2449.7	2453.7	2477.8	2509.8	2525.9	2556.8	2618.6	2665.0	2668.4
165°	2460.6	2475.1	2489.6	2493.3	2504.1	2518.6	2525.9	2548.0	2592.2	2625.4	2629.1
167.5°	2500.2	2507.1	2513.8	2515.6	2524.8	2537.0	2543.0	2557.5	2586.5	2608.3	2609.8
170°	2525.9	2532.7	2539.6	2541.4	2541.9	2542.7	2543.0	2557.5	2586.5	2608.3	2608.3
172.5°	2539.6	2541.1	2542.7	2543.0	2543.0	2543.0	2543.0	2554.5	2577.4	2594.6	2593.2
175°	2558.5	2558.5	2558.5	2558.5	2553.4	2546.5	2543.0	2550.3	2564.8	2575.7	2575.7
177.5°	2558.5	2558.5	2558.5	2558.5	2554.5	2549.2	2546.5	2552.2	2563.7	2572.2	2570.6
180°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	2984.4	2976.2	2984.4	2978.9	2981.7	2973.4	2948.6	2940.4	2948.6	2956.9	2956.9
5°	3020.2	3014.7	3020.2	3020.2	3017.5	3012.0	2984.4	2978.9	2984.4	2987.2	2981.7
7.5°	3031.2	3023.0	3031.2	3025.7	3025.7	3020.2	2992.7	2987.2	2989.9	2998.2	2989.9
10°	3031.2	3023.0	3031.2	3028.5	3025.7	3020.2	2992.7	2981.7	2981.7	2989.9	2981.7
12.5°	3017.5	3012.0	3017.5	3012.0	3012.0	3006.5	2978.9	2967.9	2970.7	2973.4	2962.4
15°	2995.4	2987.2	2995.4	2989.9	2992.7	2984.4	2954.2	2943.1	2943.1	2948.6	2929.4
17.5°	2962.4	2951.4	2962.4	2959.7	2956.9	2951.4	2923.9	2912.9	2910.1	2912.9	2899.1
20°	2923.9	2915.6	2923.9	2921.1	2921.1	2910.1	2882.6	2868.8	2868.8	2868.8	2855.0
22.5°	2863.3	2855.0	2863.3	2868.8	2868.8	2866.1	2841.3	2822.0	2816.5	2816.5	2800.0
25°	2794.5	2786.2	2794.5	2794.5	2791.7	2794.5	2786.2	2775.2	2766.9	2758.7	2742.2
27.5°	2728.4	2722.9	2728.4	2722.9	2728.4	2720.1	2717.4	2714.6	2703.6	2695.4	2673.3
30°	2662.3	2656.8	2662.3	2656.8	2651.3	2645.8	2632.0	2626.5	2637.5	2632.0	2596.3
32.5°	2579.7	2574.2	2579.7	2579.7	2574.2	2574.2	2552.2	2543.9	2546.7	2563.2	2530.2
35°	2494.4	2486.1	2494.4	2491.6	2494.4	2486.1	2472.4	2469.6	2458.6	2477.9	2453.1
37.5°	2395.2	2386.9	2395.2	2395.2	2395.2	2400.7	2389.7	2381.4	2364.9	2389.7	2370.4
40°	2293.3	2282.3	2293.3	2290.6	2293.3	2298.8	2293.3	2287.8	2271.3	2290.6	2274.0
42.5°	2177.7	2174.9	2177.7	2180.4	2180.4	2191.5	2199.7	2188.7	2183.2	2169.4	2180.4
45°	2053.8	2048.3	2053.8	2059.3	2062.1	2067.6	2092.3	2092.3	2084.1	2062.1	2078.6
47.5°	1921.7	1907.9	1921.7	1938.2	1938.2	1946.4	1971.2	1990.5	1976.7	1949.2	1957.4
50°	1781.2	1784.0	1781.2	1792.3	1792.3	1822.5	1841.8	1861.1	1874.9	1841.8	1803.3
52.5°	1643.6	1640.8	1643.6	1651.9	1662.9	1676.6	1709.7	1728.9	1751.0	1731.7	1671.1
55°	1505.9	1511.4	1505.9	1508.7	1514.2	1522.5	1572.0	1591.3	1632.6	1607.8	1544.5
57.5°	1368.3	1360.0	1368.3	1373.8	1376.5	1384.8	1426.1	1461.9	1486.7	1489.4	1412.3
60°	1208.6	1197.6	1208.6	1233.4	1238.9	1244.4	1282.9	1316.0	1338.0	1346.3	1266.4
62.5°	1068.2	1048.9	1068.2	1084.7	1095.7	1109.5	1137.0	1186.6	1205.9	1208.6	1095.7
65°	919.5	911.3	919.5	952.6	955.3	971.8	1002.1	1037.9	1079.2	1073.7	911.3
67.5°	784.6	784.6	784.6	806.7	823.2	831.4	870.0	886.5	938.8	944.3	759.9
70°	660.7	658.0	660.7	677.3	688.3	707.5	743.3	762.6	803.9	817.7	616.7
72.5°	542.4	539.6	542.4	556.1	567.1	583.7	613.9	636.0	671.8	688.3	479.0
75°	437.7	432.2	437.7	448.8	446.0	468.0	492.8	514.8	547.9	558.9	355.1
77.5°	335.9	335.9	335.9	346.9	346.9	368.9	379.9	407.5	426.7	443.2	261.5
80°	250.5	247.8	250.5	253.3	253.3	264.3	283.6	302.8	319.4	319.4	179.0
82.5°	176.2	170.7	176.2	176.2	176.2	181.7	192.7	198.2	209.2	217.5	112.9
85°	110.1	110.1	110.1	112.9	110.1	115.6	118.4	123.9	123.9	118.4	68.8
87.5°	71.6	68.8	71.6	68.8	68.8	66.1	66.1	66.1	63.3	60.6	38.5
90°	65.2	65.2	65.2	65.2	65.2	87.0	116.0	130.5	112.1	75.5	48.1
92.5°	261.4	209.5	261.4	313.3	326.2	462.4	644.0	734.9	645.2	465.9	331.4
95°	911.0	753.8	911.0	1068.3	1107.6	1454.5	1916.9	2148.1	1814.3	1146.5	645.6
97.5°	2182.8	1883.7	2182.8	2482.0	2556.8	2776.0	3068.3	3214.4	2657.7	1544.3	709.2
100°	3145.0	2788.6	3145.0	3501.4	3590.5	3574.4	3553.0	3542.4	2924.6	1689.1	762.4
102.5°	4091.5	3786.2	4091.5	4396.8	4473.1	4193.8	3821.4	3635.2	3008.6	1755.5	815.6
105°	5298.3	5134.2	5298.3	5462.3	5503.3	4877.2	4042.3	3624.8	3018.1	1804.7	894.7
107.5°	6088.7	6128.4	6088.7	6049.0	6039.1	5165.6	4001.1	3418.8	2883.8	1813.8	1011.4
110°	6390.2	6561.2	6390.2	6219.2	6176.5	5200.0	3898.1	3247.1	2764.7	1800.2	1076.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6417.1	6679.6	6417.1	6154.5	6088.9	5089.5	3757.0	3090.8	2660.8	1800.7	1155.7
115°	6246.8	6610.9	6246.8	5882.9	5791.8	4829.1	3545.5	2903.7	2541.6	1817.3	1274.1
117.5°	5886.1	6289.8	5886.1	5482.4	5381.5	4512.6	3354.1	2774.8	2466.9	1851.0	1389.1
120°	5595.3	5987.6	5595.3	5203.1	5105.0	4311.1	3252.6	2723.4	2441.7	1878.5	1456.1
122.5°	5312.3	5699.2	5312.3	4925.3	4828.5	4113.7	3160.4	2683.9	2428.6	1918.1	1535.1
125°	4908.3	5264.7	4908.3	4551.9	4462.8	3855.5	3045.8	2640.9	2417.8	1971.3	1636.4
127.5°	4545.1	4845.7	4545.1	4244.3	4169.2	3647.7	2952.5	2604.9	2411.4	2024.4	1734.3
130°	4331.0	4608.8	4331.0	4053.2	3983.7	3519.5	2900.6	2591.1	2415.2	2063.3	1799.5
132.5°	4136.7	4385.5	4136.7	3888.0	3825.8	3410.2	2856.1	2579.1	2417.7	2094.8	1852.7
135°	3870.6	4085.0	3870.6	3656.1	3602.5	3254.5	2790.5	2558.5	2415.5	2129.2	1914.6
137.5°	3657.1	3832.6	3657.1	3481.6	3437.7	3143.5	2751.2	2555.0	2430.2	2180.7	1993.6
140°	3510.6	3674.6	3510.6	3346.5	3305.4	3051.3	2712.4	2543.0	2432.7	2212.2	2046.8
142.5°	3389.2	3530.4	3389.2	3248.1	3212.8	2989.5	2691.9	2543.0	2441.5	2238.5	2086.3
145°	3207.3	3314.1	3207.3	3100.3	3073.6	2891.0	2647.6	2525.9	2441.5	2272.9	2146.4
147.5°	3067.6	3156.0	3067.6	2979.0	2956.9	2813.2	2621.7	2525.9	2458.3	2323.2	2221.9
150°	2979.6	3051.3	2979.6	2907.8	2889.9	2768.6	2606.8	2525.9	2467.1	2349.6	2261.5
152.5°	2904.4	2958.6	2904.4	2850.3	2836.7	2733.1	2595.0	2525.9	2472.8	2366.7	2287.2
155°	2818.0	2853.8	2818.0	2782.2	2773.2	2690.8	2580.8	2525.9	2485.4	2404.5	2343.9
157.5°	2749.7	2774.8	2749.7	2724.5	2718.2	2654.1	2568.6	2525.9	2498.0	2442.3	2400.5
160°	2708.9	2723.4	2708.9	2694.4	2690.7	2635.7	2562.5	2525.9	2503.7	2459.5	2426.3
162.5°	2682.1	2695.9	2682.1	2668.4	2665.0	2618.6	2556.8	2525.9	2509.8	2477.8	2453.7
165°	2643.6	2658.1	2643.6	2629.1	2625.4	2592.2	2548.0	2525.9	2518.6	2504.1	2493.3
167.5°	2615.9	2622.0	2615.9	2609.8	2608.3	2586.5	2557.5	2543.0	2537.0	2524.8	2515.6
170°	2608.3	2608.3	2608.3	2608.3	2608.3	2586.5	2557.5	2543.0	2542.7	2541.9	2541.4
172.5°	2587.9	2582.6	2587.9	2593.2	2594.6	2577.4	2554.5	2543.0	2543.0	2543.0	2543.0
175°	2575.7	2575.7	2575.7	2575.7	2575.7	2564.8	2550.3	2543.0	2546.5	2553.4	2558.5
177.5°	2564.6	2558.5	2564.6	2570.6	2572.2	2563.7	2552.2	2546.5	2549.2	2554.5	2558.5
180°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	2951.4	2934.9	2934.9	2907.3	2896.3	2888.1	2874.3	2833.0	2822.0	2811.0	2827.5
5°	2976.2	2945.9	2923.9	2874.3	2833.0	2816.5	2764.2	2665.1	2599.0	2549.4	2521.9
7.5°	2981.7	2943.1	2901.8	2824.8	2725.6	2681.6	2521.9	2340.1	2290.6	2246.5	2219.0
10°	2976.2	2932.1	2874.3	2758.7	2524.7	2447.6	2287.8	2169.4	2139.1	2130.9	2139.1
12.5°	2956.9	2915.6	2835.8	2643.1	2315.3	2263.0	2169.4	2100.6	2095.1	2108.9	2183.2
15°	2923.9	2885.3	2791.7	2488.9	2199.7	2161.2	2095.1	2070.3	2100.6	2197.0	2420.0
17.5°	2890.8	2846.8	2731.2	2337.4	2111.6	2084.1	2037.3	2086.8	2257.5	2386.9	2461.3
20°	2846.8	2794.5	2662.3	2227.2	2048.3	2023.5	2001.5	2224.5	2353.9	2400.7	2442.1
22.5°	2794.5	2739.4	2568.7	2150.2	1982.2	1962.9	1976.7	2301.6	2353.9	2386.9	2422.7
25°	2725.6	2678.8	2458.6	2089.6	1929.9	1907.9	1960.2	2293.3	2323.6	2331.9	2403.4
27.5°	2662.3	2601.8	2342.9	2034.5	1866.6	1858.3	1974.0	2257.5	2279.6	2287.8	2364.9
30°	2585.2	2494.4	2213.5	1976.7	1800.5	1797.8	1976.7	2213.5	2208.0	2230.0	2307.1
32.5°	2505.4	2334.6	2067.6	1905.1	1737.2	1734.4	1957.4	2147.4	2141.9	2172.2	2230.0
35°	2431.1	2210.7	1869.3	1822.5	1657.4	1660.1	1910.6	2070.3	2073.1	2100.6	2136.4
37.5°	2353.9	2103.4	1651.9	1731.7	1580.3	1580.3	1847.3	1998.7	1993.2	2001.5	2051.0
40°	2263.0	1935.4	1459.1	1613.3	1508.7	1500.4	1770.2	1921.7	1902.4	1899.6	1968.5
42.5°	2166.7	1751.0	1316.0	1456.4	1426.1	1415.1	1676.6	1828.0	1792.3	1800.5	1888.6
45°	2062.1	1701.4	1205.9	1230.6	1340.8	1332.5	1574.8	1720.7	1695.9	1717.9	1808.8
47.5°	1957.4	1602.3	1170.1	1021.4	1249.9	1247.1	1461.9	1616.1	1602.3	1624.3	1720.7
50°	1814.3	1492.2	1167.3	875.5	1148.0	1159.0	1327.0	1514.2	1514.2	1533.5	1635.3
52.5°	1629.8	1357.3	1059.9	792.9	1029.7	1062.7	1208.6	1426.1	1431.6	1450.9	1541.7
55°	1461.9	1216.9	982.9	729.6	889.2	960.8	1093.0	1335.2	1346.3	1365.5	1448.1
57.5°	1307.7	1013.1	966.3	655.2	759.9	828.7	991.1	1247.1	1252.7	1269.2	1349.0
60°	1142.5	732.3	886.5	575.4	647.0	699.3	897.5	1142.5	1161.8	1172.8	1241.6
62.5°	955.3	531.3	803.9	520.3	591.9	602.9	820.4	1043.4	1068.2	1076.5	1117.8
65°	680.0	446.0	682.8	473.5	534.1	536.9	737.8	941.6	963.6	977.3	1007.6
67.5°	459.8	363.4	520.3	429.5	490.0	492.8	658.0	823.2	853.5	864.5	883.7
70°	319.4	242.3	385.4	382.7	440.5	446.0	572.6	715.8	743.3	751.6	762.6
72.5°	234.0	195.5	319.4	344.1	388.2	393.7	484.5	594.7	622.2	630.5	636.0
75°	179.0	206.5	258.8	300.1	330.4	333.1	396.4	484.5	503.8	509.3	512.1
77.5°	143.2	192.7	190.0	242.3	269.8	264.3	311.1	374.4	390.9	390.9	390.9
80°	107.4	151.4	143.2	173.4	198.2	192.7	223.0	267.0	272.6	278.1	275.3
82.5°	79.8	96.4	96.4	110.1	132.1	126.6	148.7	173.4	173.4	173.4	179.0
85°	49.6	55.1	44.0	57.8	74.3	71.6	82.6	93.6	96.4	96.4	90.9
87.5°	30.3	24.8	13.8	22.0	33.0	33.0	38.5	41.3	38.5	38.5	38.5
90°	44.7	30.9	17.2	30.9	44.7	48.1	75.5	112.1	130.5	116.0	87.0
92.5°	302.2	185.4	68.6	185.4	302.2	331.4	465.9	645.2	734.9	644.0	462.4
95°	592.2	378.5	164.8	378.5	592.2	645.6	1146.5	1814.3	2148.1	1916.9	1454.5
97.5°	662.0	473.5	285.0	473.5	662.0	709.2	1544.3	2657.7	3214.4	3068.3	2776.0
100°	719.7	548.7	377.7	548.7	719.7	762.4	1689.1	2924.6	3542.4	3553.0	3574.4
102.5°	775.7	616.2	456.7	616.2	775.7	815.6	1755.5	3008.6	3635.2	3821.4	4193.8
105°	860.9	725.8	590.7	725.8	860.9	894.7	1804.7	3018.1	3624.8	4042.3	4877.2
107.5°	979.9	854.0	728.1	854.0	979.9	1011.4	1813.8	2883.8	3418.8	4001.1	5165.6
110°	1048.2	934.5	820.8	934.5	1048.2	1076.6	1800.2	2764.7	3247.1	3898.1	5200.0



TEST NUMBER: P935956

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1128.6	1020.2	911.8	1020.2	1128.6	1155.7	1800.7	2660.8	3090.8	3757.0	5089.5
115°	1249.2	1149.1	1049.2	1149.1	1249.2	1274.1	1817.3	2541.6	2903.7	3545.5	4829.1
117.5°	1366.4	1275.6	1184.8	1275.6	1366.4	1389.1	1851.0	2466.9	2774.8	3354.1	4512.6
120°	1434.7	1349.3	1263.8	1349.3	1434.7	1456.1	1878.5	2441.7	2723.4	3252.6	4311.1
122.5°	1513.6	1427.3	1341.0	1427.3	1513.6	1535.1	1918.1	2428.6	2683.9	3160.4	4113.7
125°	1616.8	1538.1	1459.6	1538.1	1616.8	1636.4	1971.3	2417.8	2640.9	3045.8	3855.5
127.5°	1714.4	1635.1	1555.7	1635.1	1714.4	1734.3	2024.4	2411.4	2604.9	2952.5	3647.7
130°	1778.1	1692.7	1607.3	1692.7	1778.1	1799.5	2063.3	2415.2	2591.1	2900.6	3519.5
132.5°	1831.4	1745.9	1660.5	1745.9	1831.4	1852.7	2094.8	2417.7	2579.1	2856.1	3410.2
135°	1895.1	1817.2	1739.4	1817.2	1895.1	1914.6	2129.2	2415.5	2558.5	2790.5	3254.5
137.5°	1974.3	1897.2	1820.2	1897.2	1974.3	1993.6	2180.7	2430.2	2555.0	2751.2	3143.5
140°	2029.1	1958.1	1887.1	1958.1	2029.1	2046.8	2212.2	2432.7	2543.0	2712.4	3051.3
142.5°	2069.9	2004.2	1938.6	2004.2	2069.9	2086.3	2238.5	2441.5	2543.0	2691.9	2989.5
145°	2132.1	2074.9	2017.6	2074.9	2132.1	2146.4	2272.9	2441.5	2525.9	2647.6	2891.0
147.5°	2208.0	2152.3	2096.6	2152.3	2208.0	2221.9	2323.2	2458.3	2525.9	2621.7	2813.2
150°	2248.9	2198.5	2148.1	2198.5	2248.9	2261.5	2349.6	2467.1	2525.9	2606.8	2768.6
152.5°	2277.6	2239.5	2201.4	2239.5	2277.6	2287.2	2366.7	2472.8	2525.9	2595.0	2733.1
155°	2336.8	2308.6	2280.4	2308.6	2336.8	2343.9	2404.5	2485.4	2525.9	2580.8	2690.8
157.5°	2393.6	2366.2	2338.7	2366.2	2393.6	2400.5	2442.3	2498.0	2525.9	2568.6	2654.1
160°	2421.0	2399.6	2378.2	2399.6	2421.0	2426.3	2459.5	2503.7	2525.9	2562.5	2635.7
162.5°	2449.7	2433.7	2417.7	2433.7	2449.7	2453.7	2477.8	2509.8	2525.9	2556.8	2618.6
165°	2489.6	2475.1	2460.6	2475.1	2489.6	2493.3	2504.1	2518.6	2525.9	2548.0	2592.2
167.5°	2513.8	2507.1	2500.2	2507.1	2513.8	2515.6	2524.8	2537.0	2543.0	2557.5	2586.5
170°	2539.6	2532.7	2525.9	2532.7	2539.6	2541.4	2541.9	2542.7	2543.0	2557.5	2586.5
172.5°	2542.7	2541.1	2539.6	2541.1	2542.7	2543.0	2543.0	2543.0	2543.0	2554.5	2577.4
175°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2553.4	2546.5	2543.0	2550.3	2564.8
177.5°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2554.5	2549.2	2546.5	2552.2	2563.7
180°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5



TEST NUMBER: P935956
 CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	2808.2	2800.0	2811.0	2780.7	2811.0	2800.0	2808.2	2827.5	2811.0	2822.0	2833.0
5°	2464.1	2450.3	2406.2	2370.4	2406.2	2450.3	2464.1	2521.9	2549.4	2599.0	2665.1
7.5°	2202.5	2191.5	2180.4	2158.4	2180.4	2191.5	2202.5	2219.0	2246.5	2290.6	2340.1
10°	2144.7	2147.4	2163.9	2161.2	2163.9	2147.4	2144.7	2139.1	2130.9	2139.1	2169.4
12.5°	2293.3	2318.1	2408.9	2403.4	2408.9	2318.1	2293.3	2183.2	2108.9	2095.1	2100.6
15°	2464.1	2472.4	2491.6	2494.4	2491.6	2472.4	2464.1	2420.0	2197.0	2100.6	2070.3
17.5°	2480.6	2483.4	2497.1	2497.1	2497.1	2483.4	2480.6	2461.3	2386.9	2257.5	2086.8
20°	2466.9	2472.4	2499.9	2505.4	2499.9	2472.4	2466.9	2442.1	2400.7	2353.9	2224.5
22.5°	2461.3	2472.4	2494.4	2491.6	2494.4	2472.4	2461.3	2422.7	2386.9	2353.9	2301.6
25°	2433.8	2433.8	2436.6	2439.3	2436.6	2433.8	2433.8	2403.4	2331.9	2323.6	2293.3
27.5°	2375.9	2381.4	2397.9	2395.2	2397.9	2381.4	2375.9	2364.9	2287.8	2279.6	2257.5
30°	2323.6	2318.1	2304.3	2293.3	2304.3	2318.1	2323.6	2307.1	2230.0	2208.0	2213.5
32.5°	2235.5	2221.7	2208.0	2199.7	2208.0	2221.7	2235.5	2230.0	2172.2	2141.9	2147.4
35°	2130.9	2133.6	2130.9	2122.6	2130.9	2133.6	2130.9	2136.4	2100.6	2073.1	2070.3
37.5°	2056.6	2062.1	2059.3	2048.3	2059.3	2062.1	2056.6	2051.0	2001.5	1993.2	1998.7
40°	1979.5	1982.2	1979.5	1971.2	1979.5	1982.2	1979.5	1968.5	1899.6	1902.4	1921.7
42.5°	1905.1	1902.4	1894.1	1888.6	1894.1	1902.4	1905.1	1888.6	1800.5	1792.3	1828.0
45°	1819.8	1822.5	1806.0	1797.8	1806.0	1822.5	1819.8	1808.8	1717.9	1695.9	1720.7
47.5°	1734.4	1734.4	1720.7	1712.4	1720.7	1734.4	1734.4	1720.7	1624.3	1602.3	1616.1
50°	1643.6	1640.8	1621.6	1618.8	1621.6	1640.8	1643.6	1635.3	1533.5	1514.2	1514.2
52.5°	1539.0	1539.0	1541.7	1547.2	1541.7	1539.0	1539.0	1541.7	1450.9	1431.6	1426.1
55°	1448.1	1450.9	1470.1	1475.7	1470.1	1450.9	1448.1	1448.1	1365.5	1346.3	1335.2
57.5°	1354.5	1354.5	1368.3	1368.3	1368.3	1354.5	1354.5	1349.0	1269.2	1252.7	1247.1
60°	1247.1	1252.7	1263.7	1260.9	1263.7	1252.7	1247.1	1241.6	1172.8	1161.8	1142.5
62.5°	1134.3	1139.8	1142.5	1137.0	1142.5	1139.8	1134.3	1117.8	1076.5	1068.2	1043.4
65°	1015.9	1021.4	1024.1	1018.6	1024.1	1021.4	1015.9	1007.6	977.3	963.6	941.6
67.5°	894.8	892.0	889.2	900.3	889.2	892.0	894.8	883.7	864.5	853.5	823.2
70°	770.9	770.9	768.1	773.6	768.1	770.9	770.9	762.6	751.6	743.3	715.8
72.5°	638.7	636.0	647.0	638.7	647.0	636.0	638.7	636.0	630.5	622.2	594.7
75°	509.3	514.8	509.3	517.6	509.3	514.8	509.3	512.1	509.3	503.8	484.5
77.5°	388.2	393.7	388.2	388.2	388.2	393.7	388.2	390.9	390.9	390.9	374.4
80°	275.3	272.6	272.6	269.8	272.6	272.6	275.3	275.3	278.1	272.6	267.0
82.5°	176.2	173.4	173.4	179.0	173.4	173.4	176.2	179.0	173.4	173.4	173.4
85°	96.4	99.1	93.6	93.6	93.6	99.1	96.4	90.9	96.4	96.4	93.6
87.5°	35.8	33.0	33.0	33.0	33.0	33.0	35.8	38.5	38.5	38.5	41.3
90°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	87.0	116.0	130.5	112.1
92.5°	326.2	313.3	261.4	209.5	261.4	313.3	326.2	462.4	644.0	734.9	645.2
95°	1107.6	1068.3	911.0	753.8	911.0	1068.3	1107.6	1454.5	1916.9	2148.1	1814.3
97.5°	2556.8	2482.0	2182.8	1883.7	2182.8	2482.0	2556.8	2776.0	3068.3	3214.4	2657.7
100°	3590.5	3501.4	3145.0	2788.6	3145.0	3501.4	3590.5	3574.4	3553.0	3542.4	2924.6
102.5°	4473.1	4396.8	4091.5	3786.2	4091.5	4396.8	4473.1	4193.8	3821.4	3635.2	3008.6
105°	5503.3	5462.3	5298.3	5134.2	5298.3	5462.3	5503.3	4877.2	4042.3	3624.8	3018.1
107.5°	6039.1	6049.0	6088.7	6128.4	6088.7	6049.0	6039.1	5165.6	4001.1	3418.8	2883.8
110°	6176.5	6219.2	6390.2	6561.2	6390.2	6219.2	6176.5	5200.0	3898.1	3247.1	2764.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6088.9	6154.5	6417.1	6679.6	6417.1	6154.5	6088.9	5089.5	3757.0	3090.8	2660.8
115°	5791.8	5882.9	6246.8	6610.9	6246.8	5882.9	5791.8	4829.1	3545.5	2903.7	2541.6
117.5°	5381.5	5482.4	5886.1	6289.8	5886.1	5482.4	5381.5	4512.6	3354.1	2774.8	2466.9
120°	5105.0	5203.1	5595.3	5987.6	5595.3	5203.1	5105.0	4311.1	3252.6	2723.4	2441.7
122.5°	4828.5	4925.3	5312.3	5699.2	5312.3	4925.3	4828.5	4113.7	3160.4	2683.9	2428.6
125°	4462.8	4551.9	4908.3	5264.7	4908.3	4551.9	4462.8	3855.5	3045.8	2640.9	2417.8
127.5°	4169.2	4244.3	4545.1	4845.7	4545.1	4244.3	4169.2	3647.7	2952.5	2604.9	2411.4
130°	3983.7	4053.2	4331.0	4608.8	4331.0	4053.2	3983.7	3519.5	2900.6	2591.1	2415.2
132.5°	3825.8	3888.0	4136.7	4385.5	4136.7	3888.0	3825.8	3410.2	2856.1	2579.1	2417.7
135°	3602.5	3656.1	3870.6	4085.0	3870.6	3656.1	3602.5	3254.5	2790.5	2558.5	2415.5
137.5°	3437.7	3481.6	3657.1	3832.6	3657.1	3481.6	3437.7	3143.5	2751.2	2555.0	2430.2
140°	3305.4	3346.5	3510.6	3674.6	3510.6	3346.5	3305.4	3051.3	2712.4	2543.0	2432.7
142.5°	3212.8	3248.1	3389.2	3530.4	3389.2	3248.1	3212.8	2989.5	2691.9	2543.0	2441.5
145°	3073.6	3100.3	3207.3	3314.1	3207.3	3100.3	3073.6	2891.0	2647.6	2525.9	2441.5
147.5°	2956.9	2979.0	3067.6	3156.0	3067.6	2979.0	2956.9	2813.2	2621.7	2525.9	2458.3
150°	2889.9	2907.8	2979.6	3051.3	2979.6	2907.8	2889.9	2768.6	2606.8	2525.9	2467.1
152.5°	2836.7	2850.3	2904.4	2958.6	2904.4	2850.3	2836.7	2733.1	2595.0	2525.9	2472.8
155°	2773.2	2782.2	2818.0	2853.8	2818.0	2782.2	2773.2	2690.8	2580.8	2525.9	2485.4
157.5°	2718.2	2724.5	2749.7	2774.8	2749.7	2724.5	2718.2	2654.1	2568.6	2525.9	2498.0
160°	2690.7	2694.4	2708.9	2723.4	2708.9	2694.4	2690.7	2635.7	2562.5	2525.9	2503.7
162.5°	2665.0	2668.4	2682.1	2695.9	2682.1	2668.4	2665.0	2618.6	2556.8	2525.9	2509.8
165°	2625.4	2629.1	2643.6	2658.1	2643.6	2629.1	2625.4	2592.2	2548.0	2525.9	2518.6
167.5°	2608.3	2609.8	2615.9	2622.0	2615.9	2609.8	2608.3	2586.5	2557.5	2543.0	2537.0
170°	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2586.5	2557.5	2543.0	2542.7
172.5°	2594.6	2593.2	2587.9	2582.6	2587.9	2593.2	2594.6	2577.4	2554.5	2543.0	2543.0
175°	2575.7	2575.7	2575.7	2575.7	2575.7	2575.7	2575.7	2564.8	2550.3	2543.0	2546.5
177.5°	2572.2	2570.6	2564.6	2558.5	2564.6	2570.6	2572.2	2563.7	2552.2	2546.5	2549.2
180°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	2874.3	2888.1	2896.3	2907.3	2934.9
5°	2764.2	2816.5	2833.0	2874.3	2923.9
7.5°	2521.9	2681.6	2725.6	2824.8	2901.8
10°	2287.8	2447.6	2524.7	2758.7	2874.3
12.5°	2169.4	2263.0	2315.3	2643.1	2835.8
15°	2095.1	2161.2	2199.7	2488.9	2791.7
17.5°	2037.3	2084.1	2111.6	2337.4	2731.2
20°	2001.5	2023.5	2048.3	2227.2	2662.3
22.5°	1976.7	1962.9	1982.2	2150.2	2568.7
25°	1960.2	1907.9	1929.9	2089.6	2458.6
27.5°	1974.0	1858.3	1866.6	2034.5	2342.9
30°	1976.7	1797.8	1800.5	1976.7	2213.5
32.5°	1957.4	1734.4	1737.2	1905.1	2067.6
35°	1910.6	1660.1	1657.4	1822.5	1869.3
37.5°	1847.3	1580.3	1580.3	1731.7	1651.9
40°	1770.2	1500.4	1508.7	1613.3	1459.1
42.5°	1676.6	1415.1	1426.1	1456.4	1316.0
45°	1574.8	1332.5	1340.8	1230.6	1205.9
47.5°	1461.9	1247.1	1249.9	1021.4	1170.1
50°	1327.0	1159.0	1148.0	875.5	1167.3
52.5°	1208.6	1062.7	1029.7	792.9	1059.9
55°	1093.0	960.8	889.2	729.6	982.9
57.5°	991.1	828.7	759.9	655.2	966.3
60°	897.5	699.3	647.0	575.4	886.5
62.5°	820.4	602.9	591.9	520.3	803.9
65°	737.8	536.9	534.1	473.5	682.8
67.5°	658.0	492.8	490.0	429.5	520.3
70°	572.6	446.0	440.5	382.7	385.4
72.5°	484.5	393.7	388.2	344.1	319.4
75°	396.4	333.1	330.4	300.1	258.8
77.5°	311.1	264.3	269.8	242.3	190.0
80°	223.0	192.7	198.2	173.4	143.2
82.5°	148.7	126.6	132.1	110.1	96.4
85°	82.6	71.6	74.3	57.8	44.0
87.5°	38.5	33.0	33.0	22.0	13.8
90°	75.5	48.1	44.7	30.9	17.2
92.5°	465.9	331.4	302.2	185.4	68.6
95°	1146.5	645.6	592.2	378.5	164.8
97.5°	1544.3	709.2	662.0	473.5	285.0
100°	1689.1	762.4	719.7	548.7	377.7
102.5°	1755.5	815.6	775.7	616.2	456.7
105°	1804.7	894.7	860.9	725.8	590.7
107.5°	1813.8	1011.4	979.9	854.0	728.1
110°	1800.2	1076.6	1048.2	934.5	820.8



TEST NUMBER: P935956

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1800.7	1155.7	1128.6	1020.2	911.8
115°	1817.3	1274.1	1249.2	1149.1	1049.2
117.5°	1851.0	1389.1	1366.4	1275.6	1184.8
120°	1878.5	1456.1	1434.7	1349.3	1263.8
122.5°	1918.1	1535.1	1513.6	1427.3	1341.0
125°	1971.3	1636.4	1616.8	1538.1	1459.6
127.5°	2024.4	1734.3	1714.4	1635.1	1555.7
130°	2063.3	1799.5	1778.1	1692.7	1607.3
132.5°	2094.8	1852.7	1831.4	1745.9	1660.5
135°	2129.2	1914.6	1895.1	1817.2	1739.4
137.5°	2180.7	1993.6	1974.3	1897.2	1820.2
140°	2212.2	2046.8	2029.1	1958.1	1887.1
142.5°	2238.5	2086.3	2069.9	2004.2	1938.6
145°	2272.9	2146.4	2132.1	2074.9	2017.6
147.5°	2323.2	2221.9	2208.0	2152.3	2096.6
150°	2349.6	2261.5	2248.9	2198.5	2148.1
152.5°	2366.7	2287.2	2277.6	2239.5	2201.4
155°	2404.5	2343.9	2336.8	2308.6	2280.4
157.5°	2442.3	2400.5	2393.6	2366.2	2338.7
160°	2459.5	2426.3	2421.0	2399.6	2378.2
162.5°	2477.8	2453.7	2449.7	2433.7	2417.7
165°	2504.1	2493.3	2489.6	2475.1	2460.6
167.5°	2524.8	2515.6	2513.8	2507.1	2500.2
170°	2541.9	2541.4	2539.6	2532.7	2525.9
172.5°	2543.0	2543.0	2542.7	2541.1	2539.6
175°	2553.4	2558.5	2558.5	2558.5	2558.5
177.5°	2554.5	2558.5	2558.5	2558.5	2558.5
180°	2558.5	2558.5	2558.5	2558.5	2558.5



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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	10.41	11.12	11.51	12.22	13.74	13.26	13.97	14.36	15.07	16.59
	3H	10.87	11.51	11.98	12.62	14.15	14.60	15.24	15.71	16.35	17.88
	4H	11.06	11.66	12.18	12.77	14.31	15.04	15.65	16.16	16.76	18.29
	6H	11.17	11.73	12.30	12.84	14.39	15.32	15.88	16.45	16.99	18.54
	8H	11.16	11.70	12.30	12.82	14.37	15.40	15.93	16.53	17.05	18.60
	12H	11.13	11.63	12.27	12.76	14.32	15.43	15.94	16.57	17.06	18.62
4H	2H	11.43	12.03	12.55	13.14	14.68	13.65	14.26	14.78	15.36	16.90
	3H	12.44	12.95	13.57	14.08	15.63	15.15	15.65	16.28	16.79	18.34
	4H	12.71	13.17	13.85	14.30	15.87	15.67	16.14	16.81	17.26	18.83
	6H	12.83	13.22	13.97	14.37	15.93	16.03	16.43	17.18	17.58	19.14
	8H	12.83	13.20	13.97	14.34	15.92	16.14	16.51	17.29	17.65	19.23
	12H	12.79	13.12	13.95	14.28	15.86	16.19	16.53	17.36	17.68	19.27
8H	4H	13.15	13.53	14.30	14.66	16.24	15.78	16.16	16.93	17.29	18.87
	6H	13.41	13.72	14.57	14.90	16.47	16.22	16.53	17.38	17.71	19.28
	8H	13.45	13.72	14.62	14.88	16.47	16.37	16.64	17.54	17.80	19.40
	12H	13.43	13.66	14.60	14.82	16.45	16.47	16.71	17.64	17.86	19.49
12H	4H	13.15	13.49	14.31	14.64	16.22	15.74	16.08	16.90	17.23	18.81
	6H	13.47	13.74	14.64	14.90	16.49	16.22	16.48	17.39	17.64	19.24
	8H	13.53	13.77	14.70	14.92	16.55	16.37	16.61	17.55	17.77	19.40