

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: P935955

Luminaire Tested: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

**Test Information**

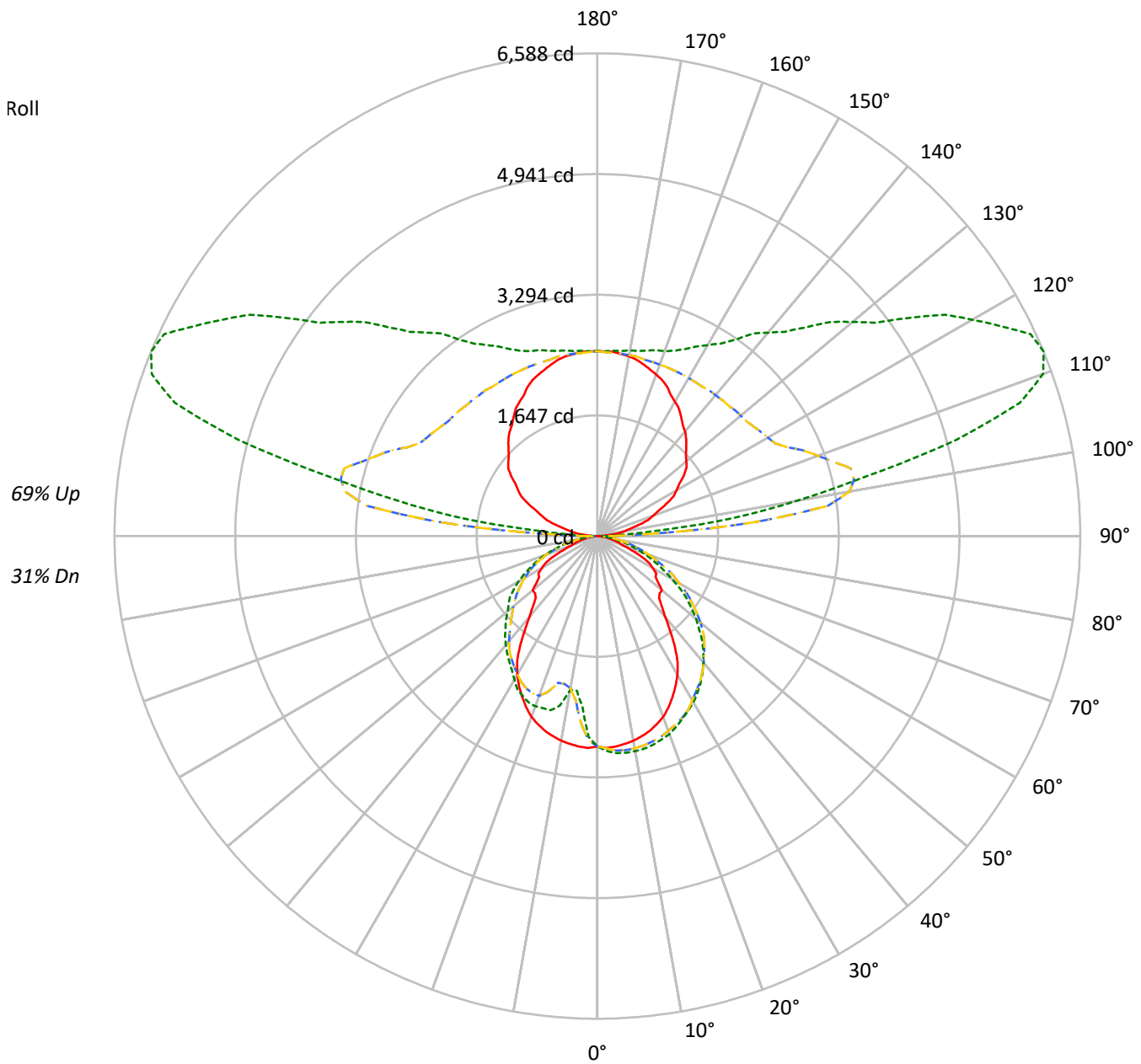
Test Method: LM-79-2019  
Report Number: P935955  
REPORT IS A COMBINATION OF REPORTS P933773 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23811.1 lumens  
Efficiency: N/A  
Efficacy: 124.8 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 (A<sub>in</sub>): 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°	8878	8878	8878	8878
5°	8948	8962	8948	7047
10°	8891	8828	8891	6311
15°	8798	8637	8798	7212
20°	8618	8410	8618	7227
25°	8244	8080	8244	7074
30°	7760	7805	7760	6738
35°	6922	7459	6922	6368
40°	5771	7050	5771	6089
45°	5160	6571	5160	5768
50°	5486	6001	5486	5445
55°	5166	5387	5166	5259
60°	5332	4575	5332	4817
65°	4842	3782	4842	4227
70°	3361	3014	3361	3544
75°	2959	2228	2959	2668
80°	2402	1473	2402	1604
85°	1406	780	1406	663

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7903 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.1	1.1
10°-20°	735.6	3.1
20°-30°	1137.2	4.8
30°-40°	1357.5	5.7
40°-50°	1365.5	5.7
50°-60°	1188.1	5.0
60°-70°	842.4	3.5
70°-80°	445.7	1.9
80°-90°	120.6	0.5
90°-100°	1230.1	5.2
100°-110°	3234.0	13.6
110°-120°	3353.3	14.1
120°-130°	2689.8	11.3
130°-140°	2110.5	8.9
140°-150°	1619.9	6.8
150°-160°	1166.6	4.9
160°-170°	713.8	3.0
170°-180°	241.2	1.0
0°-30°	2131.9	9.0
0°-40°	3489.5	14.7
0°-60°	6043.1	25.4
0°-90°	7451.8	31.3
90°-120°	7817.5	32.8
90°-150°	14237.7	59.8
90°-180°	16359.0	68.7
0°-180°	23811.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2870	2870	2870	2870	2870	
5°	2884	2974	2884	2338	2884	274
15°	2754	2946	2754	2460	2754	775
25°	2425	2748	2425	2406	2425	1113
35°	1844	2452	1844	2094	1844	1141
45°	1189	2020	1189	1773	1189	953
55°	969	1491	969	1456	969	891
65°	673	899	673	1005	673	644
75°	255	426	255	510	255	268
85°	43	109	43	92	43	59
90°	17	64	17	64	17	16
95°	163	744	163	744	163	181
105°	583	5064	583	5064	583	618
115°	1035	6521	1035	6521	1035	1022
125°	1440	5193	1440	5193	1440	1278
135°	1716	4029	1716	4029	1716	1327
145°	1990	3269	1990	3269	1990	1247
155°	2249	2815	2249	2815	2249	1033
165°	2427	2622	2427	2622	2427	685
175°	2524	2540	2524	2540	2524	240
180°	2524	2524	2524	2524	2524	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2894.8	2894.8	2911.1	2916.5	2916.5	2908.4	2900.2	2908.4	2932.8	2941.0	2938.2
5°	2883.9	2905.7	2935.5	2941.0	2946.4	2943.7	2938.2	2943.7	2970.8	2976.3	2979.0
7.5°	2862.2	2902.9	2941.0	2949.1	2957.3	2949.1	2946.4	2951.8	2979.0	2984.4	2984.4
10°	2835.1	2892.1	2935.5	2941.0	2949.1	2941.0	2941.0	2951.8	2979.0	2984.4	2987.1
12.5°	2797.0	2875.8	2916.5	2922.0	2932.8	2930.1	2927.4	2938.2	2965.4	2970.8	2970.8
15°	2753.6	2845.9	2883.9	2889.4	2908.4	2902.9	2902.9	2913.8	2943.7	2951.8	2949.1
17.5°	2693.8	2807.9	2851.3	2859.5	2873.1	2870.4	2873.1	2883.9	2911.1	2916.5	2919.2
20°	2626.0	2756.3	2807.9	2816.0	2829.6	2829.6	2829.6	2843.2	2870.4	2881.2	2881.2
22.5°	2533.6	2702.0	2756.3	2761.7	2778.0	2778.0	2783.5	2802.5	2826.9	2829.6	2829.6
25°	2425.0	2642.3	2688.4	2704.7	2721.0	2729.2	2737.3	2748.2	2756.3	2753.6	2756.3
27.5°	2310.9	2566.2	2626.0	2636.8	2658.5	2666.7	2677.6	2680.3	2683.0	2691.1	2685.7
30°	2183.2	2460.3	2549.9	2560.8	2596.1	2601.5	2590.7	2596.1	2609.7	2615.1	2620.5
32.5°	2039.3	2302.7	2471.2	2495.6	2528.2	2511.9	2509.2	2517.3	2539.1	2539.1	2544.5
35°	1843.8	2180.5	2397.9	2419.6	2444.0	2425.0	2435.9	2438.6	2452.2	2460.3	2457.6
37.5°	1629.3	2074.6	2321.7	2338.0	2357.0	2332.6	2348.9	2357.0	2367.9	2362.5	2362.5
40°	1439.2	1909.0	2232.1	2243.0	2259.3	2240.3	2256.6	2262.0	2267.4	2262.0	2259.3
42.5°	1298.0	1727.0	2137.1	2150.7	2139.8	2153.4	2158.8	2169.7	2161.5	2150.7	2150.7
45°	1189.4	1678.2	2033.9	2050.2	2033.9	2055.6	2063.8	2063.8	2039.3	2033.9	2031.2
47.5°	1154.1	1580.4	1930.7	1930.7	1922.6	1949.7	1963.3	1944.3	1919.8	1911.7	1911.7
50°	1151.4	1471.8	1789.5	1778.6	1816.7	1849.2	1835.7	1816.7	1797.6	1767.8	1767.8
52.5°	1045.5	1338.7	1607.6	1648.3	1708.0	1727.0	1705.3	1686.3	1653.7	1640.2	1629.3
55°	969.4	1200.2	1441.9	1523.4	1585.8	1610.3	1569.5	1550.5	1501.7	1493.5	1488.1
57.5°	953.1	999.3	1289.9	1393.0	1469.1	1466.4	1441.9	1406.6	1365.9	1357.7	1355.0
60°	874.4	722.3	1126.9	1249.1	1327.9	1319.7	1298.0	1265.4	1227.4	1222.0	1216.5
62.5°	792.9	524.1	942.3	1080.8	1192.1	1189.4	1170.4	1121.5	1094.3	1080.8	1069.9
65°	673.4	439.9	670.7	898.8	1059.0	1064.5	1023.7	988.4	958.6	942.3	939.6
67.5°	513.2	358.4	453.5	749.5	931.4	926.0	874.4	858.1	820.1	811.9	795.6
70°	380.2	239.0	315.0	608.3	806.5	792.9	752.2	733.2	697.9	678.9	668.0
72.5°	315.0	192.8	230.8	472.5	678.9	662.6	627.3	605.6	575.7	559.4	548.5
75°	255.3	203.7	176.5	350.3	551.2	540.4	507.8	486.1	461.6	439.9	442.6
77.5°	187.4	190.1	141.2	258.0	437.2	420.9	401.9	374.7	363.9	342.2	342.2
80°	141.2	149.4	105.9	176.5	315.0	315.0	298.7	279.7	260.7	249.8	249.8
82.5°	95.0	95.0	78.7	111.3	214.5	206.4	195.5	190.1	179.2	173.8	173.8
85°	43.4	54.3	48.9	67.9	116.8	122.2	122.2	116.8	114.1	108.6	111.3
87.5°	13.6	24.4	29.9	38.0	59.7	62.5	65.2	65.2	65.2	67.9	67.9
90°	16.9	30.5	44.1	47.4	74.5	110.6	128.7	114.4	85.8	64.4	64.4
92.5°	67.7	182.8	298.1	326.9	459.6	636.4	724.9	635.2	456.1	321.8	309.0
95°	162.6	373.3	584.1	636.8	1130.8	1789.5	2118.8	1890.7	1434.6	1092.4	1053.7
97.5°	281.1	467.1	653.0	699.5	1523.2	2621.4	3170.5	3026.4	2738.1	2521.9	2448.1
100°	372.6	541.2	709.8	752.0	1666.0	2884.7	3494.0	3504.5	3525.6	3541.4	3453.6
102.5°	450.5	607.8	765.1	804.5	1731.5	2967.5	3585.5	3769.2	4136.5	4412.0	4336.7
105°	582.7	715.9	849.1	882.4	1780.1	2976.9	3575.3	3987.1	4810.6	5428.2	5387.7
107.5°	718.2	842.3	966.5	997.6	1789.1	2844.4	3372.1	3946.4	5095.1	5956.6	5966.4
110°	809.6	921.7	1033.9	1061.9	1775.6	2727.0	3202.7	3844.9	5129.0	6092.1	6134.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	899.4	1006.3	1113.2	1139.9	1776.1	2624.4	3048.6	3705.7	5020.0	6005.7	6070.5
115°	1034.9	1133.4	1232.1	1256.7	1792.5	2506.8	2864.0	3497.1	4763.1	5712.7	5802.5
117.5°	1168.7	1258.2	1347.8	1370.1	1825.7	2433.2	2736.9	3308.3	4450.9	5308.0	5407.5
120°	1246.5	1330.9	1415.1	1436.2	1852.9	2408.4	2686.2	3208.2	4252.2	5035.2	5132.0
122.5°	1322.7	1407.8	1492.9	1514.2	1891.9	2395.4	2647.2	3117.3	4057.5	4762.6	4858.0
125°	1439.7	1517.1	1594.7	1614.1	1944.4	2384.7	2604.9	3004.2	3802.9	4401.8	4489.7
127.5°	1534.4	1612.7	1691.0	1710.6	1996.8	2378.5	2569.3	2912.2	3597.9	4112.2	4186.4
130°	1585.3	1669.6	1753.8	1774.9	2035.2	2382.2	2555.7	2860.9	3471.5	3929.3	3997.8
132.5°	1637.8	1722.1	1806.3	1827.4	2066.2	2384.6	2543.9	2817.1	3363.7	3773.5	3834.9
135°	1715.6	1792.4	1869.2	1888.4	2100.2	2382.5	2523.6	2752.4	3210.1	3553.3	3606.2
137.5°	1795.3	1871.3	1947.4	1966.4	2150.9	2397.0	2520.1	2713.6	3100.5	3390.7	3434.0
140°	1861.4	1931.3	2001.4	2018.9	2182.0	2399.5	2508.3	2675.4	3009.7	3260.3	3300.8
142.5°	1912.2	1976.9	2041.6	2057.8	2208.0	2408.2	2508.3	2655.1	2948.7	3168.9	3203.7
145°	1990.1	2046.6	2103.0	2117.1	2241.8	2408.2	2491.4	2611.4	2851.5	3031.7	3058.0
147.5°	2067.9	2122.9	2177.8	2191.6	2291.5	2424.7	2491.4	2585.9	2774.8	2916.5	2938.3
150°	2118.8	2168.5	2218.2	2230.6	2317.5	2433.4	2491.4	2571.2	2730.8	2850.4	2868.1
152.5°	2171.3	2209.0	2246.5	2255.9	2334.4	2439.0	2491.4	2559.5	2695.8	2797.9	2811.3
155°	2249.2	2277.1	2304.9	2311.9	2371.7	2451.4	2491.4	2545.6	2654.0	2735.3	2744.2
157.5°	2306.8	2333.9	2360.9	2367.7	2408.9	2463.8	2491.4	2533.5	2617.8	2681.1	2687.3
160°	2345.7	2366.8	2387.9	2393.2	2425.9	2469.6	2491.4	2527.5	2599.7	2653.9	2657.6
162.5°	2384.6	2400.5	2416.2	2420.2	2443.9	2475.5	2491.4	2521.9	2582.9	2628.6	2631.9
165°	2427.0	2441.3	2455.6	2459.2	2469.9	2484.2	2491.4	2513.2	2556.8	2589.6	2593.2
167.5°	2466.0	2472.8	2479.5	2481.2	2490.3	2502.3	2508.3	2522.6	2551.2	2572.6	2574.2
170°	2491.4	2498.2	2504.9	2506.7	2507.2	2507.9	2508.3	2522.6	2551.2	2572.6	2572.6
172.5°	2504.9	2506.4	2507.9	2508.3	2508.3	2508.3	2508.3	2519.6	2542.2	2559.2	2557.8
175°	2523.6	2523.6	2523.6	2523.6	2518.5	2511.7	2508.3	2515.4	2529.7	2540.5	2540.5
177.5°	2523.6	2523.6	2523.6	2523.6	2519.6	2514.4	2511.7	2517.3	2528.7	2537.1	2535.5
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2943.7	2935.5	2943.7	2938.2	2941.0	2932.8	2908.4	2900.2	2908.4	2916.5	2916.5
5°	2979.0	2973.5	2979.0	2979.0	2976.3	2970.8	2943.7	2938.2	2943.7	2946.4	2941.0
7.5°	2989.8	2981.7	2989.8	2984.4	2984.4	2979.0	2951.8	2946.4	2949.1	2957.3	2949.1
10°	2989.8	2981.7	2989.8	2987.1	2984.4	2979.0	2951.8	2941.0	2941.0	2949.1	2941.0
12.5°	2976.3	2970.8	2976.3	2970.8	2970.8	2965.4	2938.2	2927.4	2930.1	2932.8	2922.0
15°	2954.5	2946.4	2954.5	2949.1	2951.8	2943.7	2913.8	2902.9	2902.9	2908.4	2889.4
17.5°	2922.0	2911.1	2922.0	2919.2	2916.5	2911.1	2883.9	2873.1	2870.4	2873.1	2859.5
20°	2883.9	2875.8	2883.9	2881.2	2881.2	2870.4	2843.2	2829.6	2829.6	2829.6	2816.0
22.5°	2824.2	2816.0	2824.2	2829.6	2829.6	2826.9	2802.5	2783.5	2778.0	2778.0	2761.7
25°	2756.3	2748.2	2756.3	2756.3	2753.6	2756.3	2748.2	2737.3	2729.2	2721.0	2704.7
27.5°	2691.1	2685.7	2691.1	2685.7	2691.1	2683.0	2680.3	2677.6	2666.7	2658.5	2636.8
30°	2626.0	2620.5	2626.0	2620.5	2615.1	2609.7	2596.1	2590.7	2601.5	2596.1	2560.8
32.5°	2544.5	2539.1	2544.5	2544.5	2539.1	2539.1	2517.3	2509.2	2511.9	2528.2	2495.6
35°	2460.3	2452.2	2460.3	2457.6	2460.3	2452.2	2438.6	2435.9	2425.0	2444.0	2419.6
37.5°	2362.5	2354.3	2362.5	2362.5	2362.5	2367.9	2357.0	2348.9	2332.6	2357.0	2338.0
40°	2262.0	2251.1	2262.0	2259.3	2262.0	2267.4	2262.0	2256.6	2240.3	2259.3	2243.0
42.5°	2147.9	2145.2	2147.9	2150.7	2150.7	2161.5	2169.7	2158.8	2153.4	2139.8	2150.7
45°	2025.8	2020.3	2025.8	2031.2	2033.9	2039.3	2063.8	2063.8	2055.6	2033.9	2050.2
47.5°	1895.4	1881.8	1895.4	1911.7	1911.7	1919.8	1944.3	1963.3	1949.7	1922.6	1930.7
50°	1756.9	1759.6	1756.9	1767.8	1767.8	1797.6	1816.7	1835.7	1849.2	1816.7	1778.6
52.5°	1621.1	1618.4	1621.1	1629.3	1640.2	1653.7	1686.3	1705.3	1727.0	1708.0	1648.3
55°	1485.4	1490.8	1485.4	1488.1	1493.5	1501.7	1550.5	1569.5	1610.3	1585.8	1523.4
57.5°	1349.6	1341.4	1349.6	1355.0	1357.7	1365.9	1406.6	1441.9	1466.4	1469.1	1393.0
60°	1192.1	1181.2	1192.1	1216.5	1222.0	1227.4	1265.4	1298.0	1319.7	1327.9	1249.1
62.5°	1053.6	1034.6	1053.6	1069.9	1080.8	1094.3	1121.5	1170.4	1189.4	1192.1	1080.8
65°	907.0	898.8	907.0	939.6	942.3	958.6	988.4	1023.7	1064.5	1059.0	898.8
67.5°	773.9	773.9	773.9	795.6	811.9	820.1	858.1	874.4	926.0	931.4	749.5
70°	651.7	649.0	651.7	668.0	678.9	697.9	733.2	752.2	792.9	806.5	608.3
72.5°	535.0	532.2	535.0	548.5	559.4	575.7	605.6	627.3	662.6	678.9	472.5
75°	431.8	426.3	431.8	442.6	439.9	461.6	486.1	507.8	540.4	551.2	350.3
77.5°	331.3	331.3	331.3	342.2	342.2	363.9	374.7	401.9	420.9	437.2	258.0
80°	247.1	244.4	247.1	249.8	249.8	260.7	279.7	298.7	315.0	315.0	176.5
82.5°	173.8	168.4	173.8	173.8	173.8	179.2	190.1	195.5	206.4	214.5	111.3
85°	108.6	108.6	108.6	111.3	108.6	114.1	116.8	122.2	122.2	116.8	67.9
87.5°	70.6	67.9	70.6	67.9	67.9	65.2	65.2	65.2	62.5	59.7	38.0
90°	64.4	64.4	64.4	64.4	64.4	85.8	114.4	128.7	110.6	74.5	47.4
92.5°	257.8	206.6	257.8	309.0	321.8	456.1	635.2	724.9	636.4	459.6	326.9
95°	898.6	743.5	898.6	1053.7	1092.4	1434.6	1890.7	2118.8	1789.5	1130.8	636.8
97.5°	2153.0	1857.9	2153.0	2448.1	2521.9	2738.1	3026.4	3170.5	2621.4	1523.2	699.5
100°	3102.1	2750.5	3102.1	3453.6	3541.4	3525.6	3504.5	3494.0	2884.7	1666.0	752.0
102.5°	4035.7	3734.5	4035.7	4336.7	4412.0	4136.5	3769.2	3585.5	2967.5	1731.5	804.5
105°	5225.9	5064.1	5225.9	5387.7	5428.2	4810.6	3987.1	3575.3	2976.9	1780.1	882.4
107.5°	6005.6	6044.7	6005.6	5966.4	5956.6	5095.1	3946.4	3372.1	2844.4	1789.1	997.6
110°	6302.9	6471.5	6302.9	6134.3	6092.1	5129.0	3844.9	3202.7	2727.0	1775.6	1061.9





TEST NUMBER: P935955

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6329.4	6588.4	6329.4	6070.5	6005.7	5020.0	3705.7	3048.6	2624.4	1776.1	1139.9
115°	6161.5	6520.6	6161.5	5802.5	5712.7	4763.1	3497.1	2864.0	2506.8	1792.5	1256.7
117.5°	5805.7	6203.9	5805.7	5407.5	5308.0	4450.9	3308.3	2736.9	2433.2	1825.7	1370.1
120°	5518.9	5905.8	5518.9	5132.0	5035.2	4252.2	3208.2	2686.2	2408.4	1852.9	1436.2
122.5°	5239.7	5621.3	5239.7	4858.0	4762.6	4057.5	3117.3	2647.2	2395.4	1891.9	1514.2
125°	4841.3	5192.8	4841.3	4489.7	4401.8	3802.9	3004.2	2604.9	2384.7	1944.4	1614.1
127.5°	4483.0	4779.5	4483.0	4186.4	4112.2	3597.9	2912.2	2569.3	2378.5	1996.8	1710.6
130°	4271.8	4545.8	4271.8	3997.8	3929.3	3471.5	2860.9	2555.7	2382.2	2035.2	1774.9
132.5°	4080.2	4325.6	4080.2	3834.9	3773.5	3363.7	2817.1	2543.9	2384.6	2066.2	1827.4
135°	3817.7	4029.2	3817.7	3606.2	3553.3	3210.1	2752.4	2523.6	2382.5	2100.2	1888.4
137.5°	3607.2	3780.2	3607.2	3434.0	3390.7	3100.5	2713.6	2520.1	2397.0	2150.9	1966.4
140°	3462.6	3624.4	3462.6	3300.8	3260.3	3009.7	2675.4	2508.3	2399.5	2182.0	2018.9
142.5°	3342.9	3482.2	3342.9	3203.7	3168.9	2948.7	2655.1	2508.3	2408.2	2208.0	2057.8
145°	3163.4	3268.8	3163.4	3058.0	3031.7	2851.5	2611.4	2491.4	2408.2	2241.8	2117.1
147.5°	3025.7	3112.9	3025.7	2938.3	2916.5	2774.8	2585.9	2491.4	2424.7	2291.5	2191.6
150°	2938.9	3009.7	2938.9	2868.1	2850.4	2730.8	2571.2	2491.4	2433.4	2317.5	2230.6
152.5°	2864.7	2918.1	2864.7	2811.3	2797.9	2695.8	2559.5	2491.4	2439.0	2334.4	2255.9
155°	2779.5	2814.9	2779.5	2744.2	2735.3	2654.0	2545.6	2491.4	2451.4	2371.7	2311.9
157.5°	2712.1	2736.9	2712.1	2687.3	2681.1	2617.8	2533.5	2491.4	2463.8	2408.9	2367.7
160°	2671.9	2686.2	2671.9	2657.6	2653.9	2599.7	2527.5	2491.4	2469.6	2425.9	2393.2
162.5°	2645.5	2659.1	2645.5	2631.9	2628.6	2582.9	2521.9	2491.4	2475.5	2443.9	2420.2
165°	2607.5	2621.8	2607.5	2593.2	2589.6	2556.8	2513.2	2491.4	2484.2	2469.9	2459.2
167.5°	2580.2	2586.2	2580.2	2574.2	2572.6	2551.2	2522.6	2508.3	2502.3	2490.3	2481.2
170°	2572.6	2572.6	2572.6	2572.6	2572.6	2551.2	2522.6	2508.3	2507.9	2507.2	2506.7
172.5°	2552.6	2547.3	2552.6	2557.8	2559.2	2542.2	2519.6	2508.3	2508.3	2508.3	2508.3
175°	2540.5	2540.5	2540.5	2540.5	2540.5	2529.7	2515.4	2508.3	2511.7	2518.5	2523.6
177.5°	2529.6	2523.6	2529.6	2535.5	2537.1	2528.7	2517.3	2511.7	2514.4	2519.6	2523.6
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P935955

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2911.1	2894.8	2894.8	2867.6	2856.8	2848.6	2835.1	2794.3	2783.5	2772.6	2788.9
5°	2935.5	2905.7	2883.9	2835.1	2794.3	2778.0	2726.4	2628.7	2563.5	2514.6	2487.5
7.5°	2941.0	2902.9	2862.2	2786.2	2688.4	2645.0	2487.5	2308.2	2259.3	2215.8	2188.7
10°	2935.5	2892.1	2835.1	2721.0	2490.2	2414.2	2256.6	2139.8	2109.9	2101.8	2109.9
12.5°	2916.5	2875.8	2797.0	2607.0	2283.7	2232.1	2139.8	2071.9	2066.5	2080.1	2153.4
15°	2883.9	2845.9	2753.6	2454.9	2169.7	2131.7	2066.5	2042.0	2071.9	2167.0	2386.9
17.5°	2851.3	2807.9	2693.8	2305.4	2082.8	2055.6	2009.5	2058.3	2226.7	2354.3	2427.7
20°	2807.9	2756.3	2626.0	2196.8	2020.3	1995.9	1974.2	2194.1	2321.7	2367.9	2408.7
22.5°	2756.3	2702.0	2533.6	2120.8	1955.1	1936.1	1949.7	2270.1	2321.7	2354.3	2389.6
25°	2688.4	2642.3	2425.0	2061.1	1903.6	1881.8	1933.4	2262.0	2291.9	2300.0	2370.6
27.5°	2626.0	2566.2	2310.9	2006.7	1841.1	1833.0	1947.0	2226.7	2248.4	2256.6	2332.6
30°	2549.9	2460.3	2183.2	1949.7	1775.9	1773.2	1949.7	2183.2	2177.8	2199.5	2275.6
32.5°	2471.2	2302.7	2039.3	1879.1	1713.5	1710.8	1930.7	2118.1	2112.6	2142.5	2199.5
35°	2397.9	2180.5	1843.8	1797.6	1634.7	1637.4	1884.5	2042.0	2044.8	2071.9	2107.2
37.5°	2321.7	2074.6	1629.3	1708.0	1558.7	1558.7	1822.1	1971.4	1966.0	1974.2	2023.0
40°	2232.1	1909.0	1439.2	1591.3	1488.1	1479.9	1746.1	1895.4	1876.4	1873.7	1941.6
42.5°	2137.1	1727.0	1298.0	1436.5	1406.6	1395.8	1653.7	1803.1	1767.8	1775.9	1862.8
45°	2033.9	1678.2	1189.4	1213.8	1322.4	1314.3	1553.3	1697.2	1672.7	1694.5	1784.1
47.5°	1930.7	1580.4	1154.1	1007.4	1232.8	1230.1	1441.9	1594.0	1580.4	1602.1	1697.2
50°	1789.5	1471.8	1151.4	863.5	1132.4	1143.2	1308.9	1493.5	1493.5	1512.5	1613.0
52.5°	1607.6	1338.7	1045.5	782.1	1015.6	1048.2	1192.1	1406.6	1412.1	1431.1	1520.7
55°	1441.9	1200.2	969.4	719.6	877.1	947.7	1078.0	1317.0	1327.9	1346.9	1428.3
57.5°	1289.9	999.3	953.1	646.3	749.5	817.4	977.6	1230.1	1235.5	1251.8	1330.6
60°	1126.9	722.3	874.4	567.5	638.1	689.7	885.2	1126.9	1145.9	1156.8	1224.7
62.5°	942.3	524.1	792.9	513.2	583.8	594.7	809.2	1029.2	1053.6	1061.8	1102.5
65°	670.7	439.9	673.4	467.1	526.8	529.5	727.7	928.7	950.4	964.0	993.9
67.5°	453.5	358.4	513.2	423.6	483.4	486.1	649.0	811.9	841.8	852.7	871.7
70°	315.0	239.0	380.2	377.5	434.5	439.9	564.8	706.0	733.2	741.3	752.2
72.5°	230.8	192.8	315.0	339.4	382.9	388.3	477.9	586.5	613.7	621.8	627.3
75°	176.5	203.7	255.3	296.0	325.9	328.6	391.0	477.9	496.9	502.4	505.1
77.5°	141.2	190.1	187.4	239.0	266.1	260.7	306.8	369.3	385.6	385.6	385.6
80°	105.9	149.4	141.2	171.1	195.5	190.1	220.0	263.4	268.8	274.3	271.5
82.5°	78.7	95.0	95.0	108.6	130.3	124.9	146.6	171.1	171.1	171.1	176.5
85°	48.9	54.3	43.4	57.0	73.3	70.6	81.5	92.3	95.0	95.0	89.6
87.5°	29.9	24.4	13.6	21.7	32.6	32.6	38.0	40.7	38.0	38.0	38.0
90°	44.1	30.5	16.9	30.5	44.1	47.4	74.5	110.6	128.7	114.4	85.8
92.5°	298.1	182.8	67.7	182.8	298.1	326.9	459.6	636.4	724.9	635.2	456.1
95°	584.1	373.3	162.6	373.3	584.1	636.8	1130.8	1789.5	2118.8	1890.7	1434.6
97.5°	653.0	467.1	281.1	467.1	653.0	699.5	1523.2	2621.4	3170.5	3026.4	2738.1
100°	709.8	541.2	372.6	541.2	709.8	752.0	1666.0	2884.7	3494.0	3504.5	3525.6
102.5°	765.1	607.8	450.5	607.8	765.1	804.5	1731.5	2967.5	3585.5	3769.2	4136.5
105°	849.1	715.9	582.7	715.9	849.1	882.4	1780.1	2976.9	3575.3	3987.1	4810.6
107.5°	966.5	842.3	718.2	842.3	966.5	997.6	1789.1	2844.4	3372.1	3946.4	5095.1
110°	1033.9	921.7	809.6	921.7	1033.9	1061.9	1775.6	2727.0	3202.7	3844.9	5129.0



TEST NUMBER: P935955

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1113.2	1006.3	899.4	1006.3	1113.2	1139.9	1776.1	2624.4	3048.6	3705.7	5020.0
115°	1232.1	1133.4	1034.9	1133.4	1232.1	1256.7	1792.5	2506.8	2864.0	3497.1	4763.1
117.5°	1347.8	1258.2	1168.7	1258.2	1347.8	1370.1	1825.7	2433.2	2736.9	3308.3	4450.9
120°	1415.1	1330.9	1246.5	1330.9	1415.1	1436.2	1852.9	2408.4	2686.2	3208.2	4252.2
122.5°	1492.9	1407.8	1322.7	1407.8	1492.9	1514.2	1891.9	2395.4	2647.2	3117.3	4057.5
125°	1594.7	1517.1	1439.7	1517.1	1594.7	1614.1	1944.4	2384.7	2604.9	3004.2	3802.9
127.5°	1691.0	1612.7	1534.4	1612.7	1691.0	1710.6	1996.8	2378.5	2569.3	2912.2	3597.9
130°	1753.8	1669.6	1585.3	1669.6	1753.8	1774.9	2035.2	2382.2	2555.7	2860.9	3471.5
132.5°	1806.3	1722.1	1637.8	1722.1	1806.3	1827.4	2066.2	2384.6	2543.9	2817.1	3363.7
135°	1869.2	1792.4	1715.6	1792.4	1869.2	1888.4	2100.2	2382.5	2523.6	2752.4	3210.1
137.5°	1947.4	1871.3	1795.3	1871.3	1947.4	1966.4	2150.9	2397.0	2520.1	2713.6	3100.5
140°	2001.4	1931.3	1861.4	1931.3	2001.4	2018.9	2182.0	2399.5	2508.3	2675.4	3009.7
142.5°	2041.6	1976.9	1912.2	1976.9	2041.6	2057.8	2208.0	2408.2	2508.3	2655.1	2948.7
145°	2103.0	2046.6	1990.1	2046.6	2103.0	2117.1	2241.8	2408.2	2491.4	2611.4	2851.5
147.5°	2177.8	2122.9	2067.9	2122.9	2177.8	2191.6	2291.5	2424.7	2491.4	2585.9	2774.8
150°	2218.2	2168.5	2118.8	2168.5	2218.2	2230.6	2317.5	2433.4	2491.4	2571.2	2730.8
152.5°	2246.5	2209.0	2171.3	2209.0	2246.5	2255.9	2334.4	2439.0	2491.4	2559.5	2695.8
155°	2304.9	2277.1	2249.2	2277.1	2304.9	2311.9	2371.7	2451.4	2491.4	2545.6	2654.0
157.5°	2360.9	2333.9	2306.8	2333.9	2360.9	2367.7	2408.9	2463.8	2491.4	2533.5	2617.8
160°	2387.9	2366.8	2345.7	2366.8	2387.9	2393.2	2425.9	2469.6	2491.4	2527.5	2599.7
162.5°	2416.2	2400.5	2384.6	2400.5	2416.2	2420.2	2443.9	2475.5	2491.4	2521.9	2582.9
165°	2455.6	2441.3	2427.0	2441.3	2455.6	2459.2	2469.9	2484.2	2491.4	2513.2	2556.8
167.5°	2479.5	2472.8	2466.0	2472.8	2479.5	2481.2	2490.3	2502.3	2508.3	2522.6	2551.2
170°	2504.9	2498.2	2491.4	2498.2	2504.9	2506.7	2507.2	2507.9	2508.3	2522.6	2551.2
172.5°	2507.9	2506.4	2504.9	2506.4	2507.9	2508.3	2508.3	2508.3	2508.3	2519.6	2542.2
175°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2518.5	2511.7	2508.3	2515.4	2529.7
177.5°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2519.6	2514.4	2511.7	2517.3	2528.7
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P935955  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2769.9	2761.7	2772.6	2742.7	2772.6	2761.7	2769.9	2788.9	2772.6	2783.5	2794.3
5°	2430.4	2416.9	2373.3	2338.0	2373.3	2416.9	2430.4	2487.5	2514.6	2563.5	2628.7
7.5°	2172.4	2161.5	2150.7	2128.9	2150.7	2161.5	2172.4	2188.7	2215.8	2259.3	2308.2
10°	2115.4	2118.1	2134.4	2131.7	2134.4	2118.1	2115.4	2109.9	2101.8	2109.9	2139.8
12.5°	2262.0	2286.4	2376.0	2370.6	2376.0	2286.4	2262.0	2153.4	2080.1	2066.5	2071.9
15°	2430.4	2438.6	2457.6	2460.3	2457.6	2438.6	2430.4	2386.9	2167.0	2071.9	2042.0
17.5°	2446.7	2449.5	2463.0	2463.0	2463.0	2449.5	2446.7	2427.7	2354.3	2226.7	2058.3
20°	2433.2	2438.6	2465.7	2471.2	2465.7	2438.6	2433.2	2408.7	2367.9	2321.7	2194.1
22.5°	2427.7	2438.6	2460.3	2457.6	2460.3	2438.6	2427.7	2389.6	2354.3	2321.7	2270.1
25°	2400.6	2400.6	2403.3	2406.0	2403.3	2400.6	2400.6	2370.6	2300.0	2291.9	2262.0
27.5°	2343.5	2348.9	2365.2	2362.5	2365.2	2348.9	2343.5	2332.6	2256.6	2248.4	2226.7
30°	2291.9	2286.4	2272.9	2262.0	2272.9	2286.4	2291.9	2275.6	2199.5	2177.8	2183.2
32.5°	2205.0	2191.4	2177.8	2169.7	2177.8	2191.4	2205.0	2199.5	2142.5	2112.6	2118.1
35°	2101.8	2104.5	2101.8	2093.6	2101.8	2104.5	2101.8	2107.2	2071.9	2044.8	2042.0
37.5°	2028.5	2033.9	2031.2	2020.3	2031.2	2033.9	2028.5	2023.0	1974.2	1966.0	1971.4
40°	1952.4	1955.1	1952.4	1944.3	1952.4	1955.1	1952.4	1941.6	1873.7	1876.4	1895.4
42.5°	1879.1	1876.4	1868.3	1862.8	1868.3	1876.4	1879.1	1862.8	1775.9	1767.8	1803.1
45°	1794.9	1797.6	1781.4	1773.2	1781.4	1797.6	1794.9	1784.1	1694.5	1672.7	1697.2
47.5°	1710.8	1710.8	1697.2	1689.0	1697.2	1710.8	1710.8	1697.2	1602.1	1580.4	1594.0
50°	1621.1	1618.4	1599.4	1596.7	1599.4	1618.4	1621.1	1613.0	1512.5	1493.5	1493.5
52.5°	1518.0	1518.0	1520.7	1526.1	1520.7	1518.0	1518.0	1520.7	1431.1	1412.1	1406.6
55°	1428.3	1431.1	1450.1	1455.5	1450.1	1431.1	1428.3	1428.3	1346.9	1327.9	1317.0
57.5°	1336.0	1336.0	1349.6	1349.6	1349.6	1336.0	1336.0	1330.6	1251.8	1235.5	1230.1
60°	1230.1	1235.5	1246.4	1243.7	1246.4	1235.5	1230.1	1224.7	1156.8	1145.9	1126.9
62.5°	1118.8	1124.2	1126.9	1121.5	1126.9	1124.2	1118.8	1102.5	1061.8	1053.6	1029.2
65°	1002.0	1007.4	1010.2	1004.7	1010.2	1007.4	1002.0	993.9	964.0	950.4	928.7
67.5°	882.5	879.8	877.1	888.0	877.1	879.8	882.5	871.7	852.7	841.8	811.9
70°	760.3	760.3	757.6	763.1	757.6	760.3	760.3	752.2	741.3	733.2	706.0
72.5°	630.0	627.3	638.1	630.0	638.1	627.3	630.0	627.3	621.8	613.7	586.5
75°	502.4	507.8	502.4	510.5	502.4	507.8	502.4	505.1	502.4	496.9	477.9
77.5°	382.9	388.3	382.9	382.9	382.9	388.3	382.9	385.6	385.6	385.6	369.3
80°	271.5	268.8	268.8	266.1	268.8	268.8	271.5	271.5	274.3	268.8	263.4
82.5°	173.8	171.1	171.1	176.5	171.1	171.1	173.8	176.5	171.1	171.1	171.1
85°	95.0	97.8	92.3	92.3	92.3	97.8	95.0	89.6	95.0	95.0	92.3
87.5°	35.3	32.6	32.6	32.6	32.6	32.6	35.3	38.0	38.0	38.0	40.7
90°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	85.8	114.4	128.7	110.6
92.5°	321.8	309.0	257.8	206.6	257.8	309.0	321.8	456.1	635.2	724.9	636.4
95°	1092.4	1053.7	898.6	743.5	898.6	1053.7	1092.4	1434.6	1890.7	2118.8	1789.5
97.5°	2521.9	2448.1	2153.0	1857.9	2153.0	2448.1	2521.9	2738.1	3026.4	3170.5	2621.4
100°	3541.4	3453.6	3102.1	2750.5	3102.1	3453.6	3541.4	3525.6	3504.5	3494.0	2884.7
102.5°	4412.0	4336.7	4035.7	3734.5	4035.7	4336.7	4412.0	4136.5	3769.2	3585.5	2967.5
105°	5428.2	5387.7	5225.9	5064.1	5225.9	5387.7	5428.2	4810.6	3987.1	3575.3	2976.9
107.5°	5956.6	5966.4	6005.6	6044.7	6005.6	5966.4	5956.6	5095.1	3946.4	3372.1	2844.4
110°	6092.1	6134.3	6302.9	6471.5	6302.9	6134.3	6092.1	5129.0	3844.9	3202.7	2727.0



TEST NUMBER: P935955

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6005.7	6070.5	6329.4	6588.4	6329.4	6070.5	6005.7	5020.0	3705.7	3048.6	2624.4
115°	5712.7	5802.5	6161.5	6520.6	6161.5	5802.5	5712.7	4763.1	3497.1	2864.0	2506.8
117.5°	5308.0	5407.5	5805.7	6203.9	5805.7	5407.5	5308.0	4450.9	3308.3	2736.9	2433.2
120°	5035.2	5132.0	5518.9	5905.8	5518.9	5132.0	5035.2	4252.2	3208.2	2686.2	2408.4
122.5°	4762.6	4858.0	5239.7	5621.3	5239.7	4858.0	4762.6	4057.5	3117.3	2647.2	2395.4
125°	4401.8	4489.7	4841.3	5192.8	4841.3	4489.7	4401.8	3802.9	3004.2	2604.9	2384.7
127.5°	4112.2	4186.4	4483.0	4779.5	4483.0	4186.4	4112.2	3597.9	2912.2	2569.3	2378.5
130°	3929.3	3997.8	4271.8	4545.8	4271.8	3997.8	3929.3	3471.5	2860.9	2555.7	2382.2
132.5°	3773.5	3834.9	4080.2	4325.6	4080.2	3834.9	3773.5	3363.7	2817.1	2543.9	2384.6
135°	3553.3	3606.2	3817.7	4029.2	3817.7	3606.2	3553.3	3210.1	2752.4	2523.6	2382.5
137.5°	3390.7	3434.0	3607.2	3780.2	3607.2	3434.0	3390.7	3100.5	2713.6	2520.1	2397.0
140°	3260.3	3300.8	3462.6	3624.4	3462.6	3300.8	3260.3	3009.7	2675.4	2508.3	2399.5
142.5°	3168.9	3203.7	3342.9	3482.2	3342.9	3203.7	3168.9	2948.7	2655.1	2508.3	2408.2
145°	3031.7	3058.0	3163.4	3268.8	3163.4	3058.0	3031.7	2851.5	2611.4	2491.4	2408.2
147.5°	2916.5	2938.3	3025.7	3112.9	3025.7	2938.3	2916.5	2774.8	2585.9	2491.4	2424.7
150°	2850.4	2868.1	2938.9	3009.7	2938.9	2868.1	2850.4	2730.8	2571.2	2491.4	2433.4
152.5°	2797.9	2811.3	2864.7	2918.1	2864.7	2811.3	2797.9	2695.8	2559.5	2491.4	2439.0
155°	2735.3	2744.2	2779.5	2814.9	2779.5	2744.2	2735.3	2654.0	2545.6	2491.4	2451.4
157.5°	2681.1	2687.3	2712.1	2736.9	2712.1	2687.3	2681.1	2617.8	2533.5	2491.4	2463.8
160°	2653.9	2657.6	2671.9	2686.2	2671.9	2657.6	2653.9	2599.7	2527.5	2491.4	2469.6
162.5°	2628.6	2631.9	2645.5	2659.1	2645.5	2631.9	2628.6	2582.9	2521.9	2491.4	2475.5
165°	2589.6	2593.2	2607.5	2621.8	2607.5	2593.2	2589.6	2556.8	2513.2	2491.4	2484.2
167.5°	2572.6	2574.2	2580.2	2586.2	2580.2	2574.2	2572.6	2551.2	2522.6	2508.3	2502.3
170°	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2551.2	2522.6	2508.3	2507.9
172.5°	2559.2	2557.8	2552.6	2547.3	2552.6	2557.8	2559.2	2542.2	2519.6	2508.3	2508.3
175°	2540.5	2540.5	2540.5	2540.5	2540.5	2540.5	2540.5	2529.7	2515.4	2508.3	2511.7
177.5°	2537.1	2535.5	2529.6	2523.6	2529.6	2535.5	2537.1	2528.7	2517.3	2511.7	2514.4
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P935955

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2835.1	2848.6	2856.8	2867.6	2894.8
5°	2726.4	2778.0	2794.3	2835.1	2883.9
7.5°	2487.5	2645.0	2688.4	2786.2	2862.2
10°	2256.6	2414.2	2490.2	2721.0	2835.1
12.5°	2139.8	2232.1	2283.7	2607.0	2797.0
15°	2066.5	2131.7	2169.7	2454.9	2753.6
17.5°	2009.5	2055.6	2082.8	2305.4	2693.8
20°	1974.2	1995.9	2020.3	2196.8	2626.0
22.5°	1949.7	1936.1	1955.1	2120.8	2533.6
25°	1933.4	1881.8	1903.6	2061.1	2425.0
27.5°	1947.0	1833.0	1841.1	2006.7	2310.9
30°	1949.7	1773.2	1775.9	1949.7	2183.2
32.5°	1930.7	1710.8	1713.5	1879.1	2039.3
35°	1884.5	1637.4	1634.7	1797.6	1843.8
37.5°	1822.1	1558.7	1558.7	1708.0	1629.3
40°	1746.1	1479.9	1488.1	1591.3	1439.2
42.5°	1653.7	1395.8	1406.6	1436.5	1298.0
45°	1553.3	1314.3	1322.4	1213.8	1189.4
47.5°	1441.9	1230.1	1232.8	1007.4	1154.1
50°	1308.9	1143.2	1132.4	863.5	1151.4
52.5°	1192.1	1048.2	1015.6	782.1	1045.5
55°	1078.0	947.7	877.1	719.6	969.4
57.5°	977.6	817.4	749.5	646.3	953.1
60°	885.2	689.7	638.1	567.5	874.4
62.5°	809.2	594.7	583.8	513.2	792.9
65°	727.7	529.5	526.8	467.1	673.4
67.5°	649.0	486.1	483.4	423.6	513.2
70°	564.8	439.9	434.5	377.5	380.2
72.5°	477.9	388.3	382.9	339.4	315.0
75°	391.0	328.6	325.9	296.0	255.3
77.5°	306.8	260.7	266.1	239.0	187.4
80°	220.0	190.1	195.5	171.1	141.2
82.5°	146.6	124.9	130.3	108.6	95.0
85°	81.5	70.6	73.3	57.0	43.4
87.5°	38.0	32.6	32.6	21.7	13.6
90°	74.5	47.4	44.1	30.5	16.9
92.5°	459.6	326.9	298.1	182.8	67.7
95°	1130.8	636.8	584.1	373.3	162.6
97.5°	1523.2	699.5	653.0	467.1	281.1
100°	1666.0	752.0	709.8	541.2	372.6
102.5°	1731.5	804.5	765.1	607.8	450.5
105°	1780.1	882.4	849.1	715.9	582.7
107.5°	1789.1	997.6	966.5	842.3	718.2
110°	1775.6	1061.9	1033.9	921.7	809.6



TEST NUMBER: P935955

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1776.1	1139.9	1113.2	1006.3	899.4
115°	1792.5	1256.7	1232.1	1133.4	1034.9
117.5°	1825.7	1370.1	1347.8	1258.2	1168.7
120°	1852.9	1436.2	1415.1	1330.9	1246.5
122.5°	1891.9	1514.2	1492.9	1407.8	1322.7
125°	1944.4	1614.1	1594.7	1517.1	1439.7
127.5°	1996.8	1710.6	1691.0	1612.7	1534.4
130°	2035.2	1774.9	1753.8	1669.6	1585.3
132.5°	2066.2	1827.4	1806.3	1722.1	1637.8
135°	2100.2	1888.4	1869.2	1792.4	1715.6
137.5°	2150.9	1966.4	1947.4	1871.3	1795.3
140°	2182.0	2018.9	2001.4	1931.3	1861.4
142.5°	2208.0	2057.8	2041.6	1976.9	1912.2
145°	2241.8	2117.1	2103.0	2046.6	1990.1
147.5°	2291.5	2191.6	2177.8	2122.9	2067.9
150°	2317.5	2230.6	2218.2	2168.5	2118.8
152.5°	2334.4	2255.9	2246.5	2209.0	2171.3
155°	2371.7	2311.9	2304.9	2277.1	2249.2
157.5°	2408.9	2367.7	2360.9	2333.9	2306.8
160°	2425.9	2393.2	2387.9	2366.8	2345.7
162.5°	2443.9	2420.2	2416.2	2400.5	2384.6
165°	2469.9	2459.2	2455.6	2441.3	2427.0
167.5°	2490.3	2481.2	2479.5	2472.8	2466.0
170°	2507.2	2506.7	2504.9	2498.2	2491.4
172.5°	2508.3	2508.3	2507.9	2506.4	2504.9
175°	2518.5	2523.6	2523.6	2523.6	2523.6
177.5°	2519.6	2523.6	2523.6	2523.6	2523.6
180°	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P935955  
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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	10.36	11.07	11.46	12.17	13.69	13.21	13.93	14.31	15.02	16.54
	3H	10.82	11.46	11.94	12.57	14.10	14.55	15.19	15.66	16.30	17.83
	4H	11.01	11.62	12.13	12.72	14.26	14.99	15.60	16.11	16.71	18.25
	6H	11.12	11.68	12.25	12.79	14.34	15.27	15.83	16.40	16.95	18.49
	8H	11.12	11.65	12.25	12.77	14.32	15.35	15.88	16.48	17.01	18.55
	12H	11.08	11.59	12.22	12.71	14.27	15.38	15.89	16.52	17.01	18.58
4H	2H	11.38	11.99	12.51	13.09	14.63	13.60	14.21	14.73	15.32	16.85
	3H	12.39	12.90	13.53	14.03	15.58	15.10	15.60	16.23	16.74	18.29
	4H	12.66	13.13	13.80	14.25	15.82	15.62	16.09	16.76	17.21	18.78
	6H	12.78	13.18	13.92	14.32	15.88	15.99	16.39	17.13	17.53	19.09
	8H	12.78	13.15	13.92	14.29	15.87	16.09	16.47	17.24	17.60	19.18
	12H	12.74	13.08	13.90	14.23	15.81	16.15	16.48	17.31	17.63	19.22
8H	4H	13.11	13.48	14.25	14.62	16.20	15.74	16.11	16.88	17.25	18.83
	6H	13.36	13.67	14.53	14.85	16.42	16.17	16.48	17.34	17.66	19.24
	8H	13.40	13.67	14.57	14.83	16.43	16.33	16.59	17.50	17.75	19.35
	12H	13.38	13.62	14.55	14.77	16.40	16.42	16.66	17.60	17.81	19.44
12H	4H	13.11	13.44	14.27	14.59	16.18	15.69	16.03	16.85	17.18	18.76
	6H	13.42	13.69	14.59	14.85	16.45	16.17	16.44	17.34	17.60	19.19
	8H	13.48	13.72	14.66	14.87	16.50	16.33	16.56	17.50	17.72	19.35