

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: P936054

Luminaire Tested: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936054
REPORT IS A COMBINATION OF REPORTS P933777 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

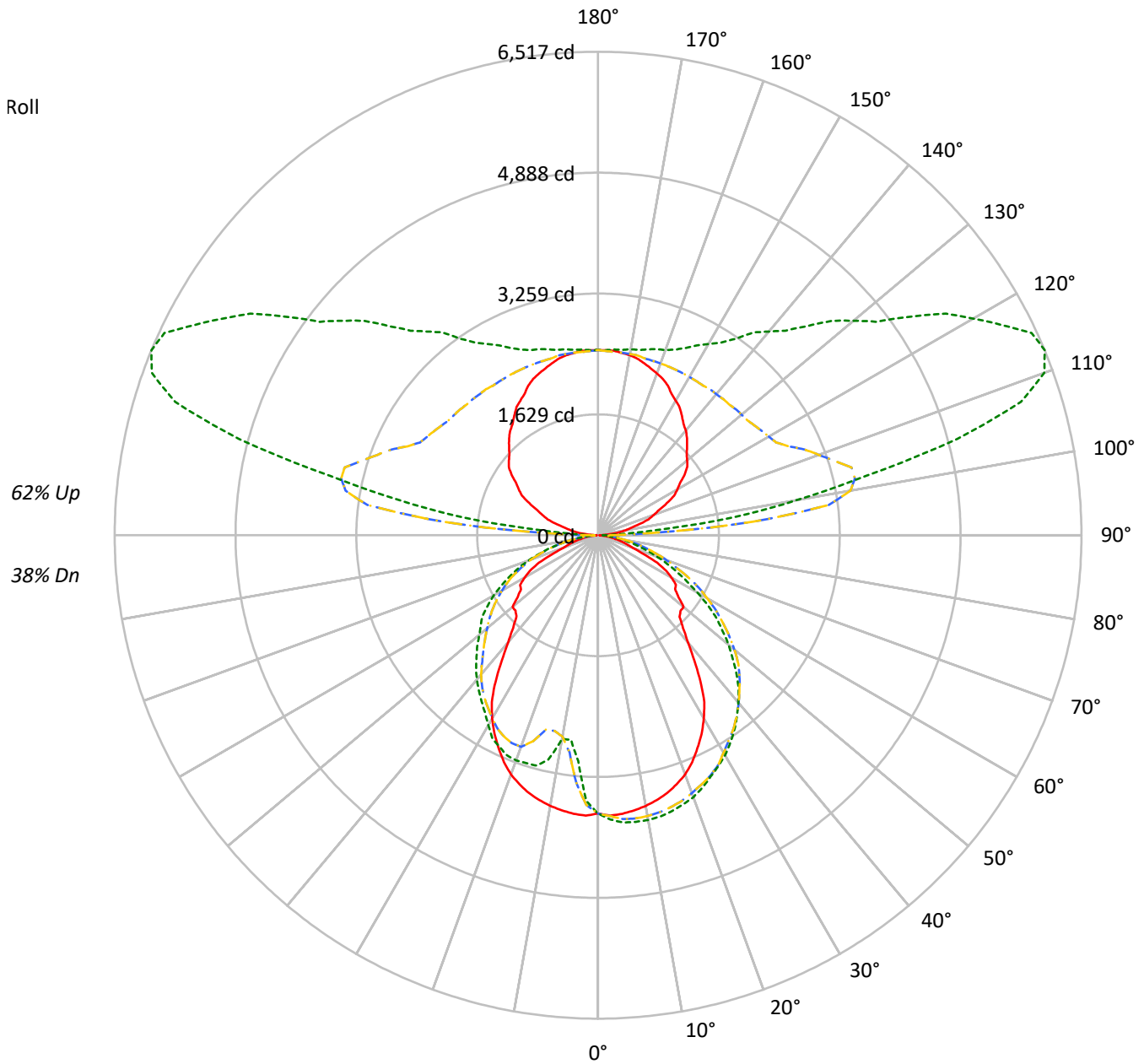
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25916.6 lumens
Efficiency: N/A
Efficacy: 119.3 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): 217.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3500K

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11602	11602	11602	11602
5°	11693	11712	11693	9209
10°	11619	11537	11619	8248
15°	11497	11287	11497	9425
20°	11261	10991	11261	9444
25°	10773	10559	10773	9244
30°	10142	10200	10142	8805
35°	9046	9747	9046	8322
40°	7542	9213	7542	7957
45°	6743	8588	6743	7537
50°	7169	7843	7169	7117
55°	6752	7040	6752	6873
60°	6968	5979	6968	6295
65°	6328	4942	6328	5525
70°	4392	3938	4392	4631
75°	3867	2912	3867	3487
80°	3138	1925	3138	2095
85°	1840	1019	1840	867

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10328 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	1.3
10°-20°	961.4	3.7
20°-30°	1486.1	5.7
30°-40°	1774.1	6.8
40°-50°	1784.5	6.9
50°-60°	1552.7	6.0
60°-70°	1100.9	4.2
70°-80°	582.4	2.2
80°-90°	154.6	0.6
90°-100°	1216.7	4.7
100°-110°	3198.8	12.3
110°-120°	3316.9	12.8
120°-130°	2660.5	10.3
130°-140°	2087.6	8.1
140°-150°	1602.3	6.2
150°-160°	1153.9	4.5
160°-170°	706.0	2.7
170°-180°	238.5	0.9
0°-30°	2786.1	10.8
0°-40°	4560.2	17.6
0°-60°	7897.4	30.5
0°-90°	9735.3	37.6
90°-120°	7732.4	29.8
90°-150°	14082.8	54.3
90°-180°	16181.0	62.4
0°-180°	25916.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3751	3751	3751	3751	3751	
5°	3769	3886	3769	3056	3769	358
15°	3598	3850	3598	3215	3598	1012
25°	3169	3591	3169	3144	3169	1455
35°	2410	3204	2410	2736	2410	1491
45°	1554	2640	1554	2317	1554	1245
55°	1267	1948	1267	1902	1267	1164
65°	880	1175	880	1313	880	841
75°	334	557	334	667	334	351
85°	57	142	57	121	57	77
90°	17	64	17	64	17	16
95°	161	735	161	735	161	179
105°	576	5009	576	5009	576	611
115°	1024	6450	1024	6450	1024	1011
125°	1424	5136	1424	5136	1424	1264
135°	1697	3985	1697	3985	1697	1313
145°	1968	3233	1968	3233	1968	1233
155°	2225	2784	2225	2784	2225	1022
165°	2401	2593	2401	2593	2401	677
175°	2496	2513	2496	2513	2496	237
180°	2496	2496	2496	2496	2496	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3783.0	3783.0	3804.3	3811.3	3811.3	3800.7	3790.0	3800.7	3832.7	3843.3	3839.7
5°	3768.8	3797.2	3836.2	3843.3	3850.4	3846.9	3839.7	3846.9	3882.3	3889.4	3893.0
7.5°	3740.3	3793.6	3843.3	3854.0	3864.6	3854.0	3850.4	3857.5	3893.0	3900.1	3900.1
10°	3704.9	3779.5	3836.2	3843.3	3854.0	3843.3	3843.3	3857.5	3893.0	3900.1	3903.6
12.5°	3655.2	3758.2	3811.3	3818.5	3832.7	3829.1	3825.6	3839.7	3875.3	3882.3	3882.3
15°	3598.4	3719.1	3768.8	3775.9	3800.7	3793.6	3793.6	3807.9	3846.9	3857.5	3854.0
17.5°	3520.4	3669.4	3726.2	3736.9	3754.6	3751.0	3754.6	3768.8	3804.3	3811.3	3814.9
20°	3431.6	3602.0	3669.4	3680.1	3697.8	3697.8	3697.8	3715.5	3751.0	3765.2	3765.2
22.5°	3311.0	3531.0	3602.0	3609.1	3630.4	3630.4	3637.5	3662.3	3694.2	3697.8	3697.8
25°	3169.0	3452.9	3513.3	3534.6	3555.8	3566.5	3577.1	3591.4	3602.0	3598.4	3602.0
27.5°	3020.0	3353.6	3431.6	3445.9	3474.3	3484.9	3499.1	3502.6	3506.1	3516.8	3509.7
30°	2853.2	3215.2	3332.3	3346.5	3392.6	3399.7	3385.5	3392.6	3410.3	3417.5	3424.6
32.5°	2665.1	3009.3	3229.4	3261.3	3303.9	3282.6	3279.1	3289.7	3318.1	3318.1	3325.2
35°	2409.6	2849.7	3133.6	3162.0	3193.8	3169.0	3183.2	3186.8	3204.5	3215.2	3211.7
37.5°	2129.2	2711.3	3034.2	3055.5	3080.3	3048.4	3069.7	3080.3	3094.6	3087.4	3087.4
40°	1880.9	2494.8	2917.1	2931.3	2952.6	2927.8	2949.0	2956.1	2963.2	2956.1	2952.6
42.5°	1696.3	2257.0	2792.8	2810.7	2796.4	2814.1	2821.2	2835.5	2824.8	2810.7	2810.7
45°	1554.4	2193.2	2658.0	2679.3	2658.0	2686.4	2697.0	2697.0	2665.1	2658.0	2654.5
47.5°	1508.2	2065.4	2523.2	2523.2	2512.5	2548.0	2565.8	2540.9	2508.9	2498.4	2498.4
50°	1504.7	1923.4	2338.6	2324.4	2374.1	2416.7	2399.0	2374.1	2349.3	2310.3	2310.3
52.5°	1366.2	1749.5	2100.8	2154.1	2232.2	2257.0	2228.6	2203.8	2161.2	2143.5	2129.2
55°	1266.9	1568.6	1884.4	1990.8	2072.5	2104.4	2051.2	2026.4	1962.4	1951.8	1944.7
57.5°	1245.6	1305.9	1685.7	1820.5	1919.9	1916.3	1884.4	1838.3	1785.0	1774.4	1770.8
60°	1142.7	943.9	1472.7	1632.4	1735.4	1724.7	1696.3	1653.7	1604.0	1597.0	1589.8
62.5°	1036.2	684.9	1231.4	1412.4	1557.9	1554.4	1529.6	1465.6	1430.2	1412.4	1398.2
65°	880.1	574.9	876.5	1174.6	1384.0	1391.1	1337.9	1291.8	1252.7	1231.4	1227.8
67.5°	670.7	468.4	592.6	979.5	1217.3	1210.1	1142.7	1121.4	1071.7	1061.0	1039.8
70°	496.8	312.3	411.7	794.9	1054.0	1036.2	983.0	958.2	912.1	887.2	873.0
72.5°	411.7	251.9	301.6	617.5	887.2	865.9	819.7	791.4	752.3	731.0	716.9
75°	333.6	266.2	230.6	457.8	720.4	706.2	663.6	635.2	603.3	574.9	578.5
77.5°	244.9	248.4	184.5	337.2	571.4	550.1	525.2	489.7	475.5	447.1	447.1
80°	184.5	195.2	138.4	230.6	411.7	411.7	390.4	365.6	340.7	326.5	326.5
82.5°	124.2	124.2	102.9	145.5	280.3	269.7	255.5	248.4	234.2	227.1	227.1
85°	56.8	71.0	63.8	88.7	152.6	159.7	159.7	152.6	149.1	141.9	145.5
87.5°	17.7	32.0	39.0	49.7	78.1	81.7	85.1	85.1	85.1	88.7	88.7
90°	16.7	30.2	43.6	46.9	73.7	109.4	127.3	113.2	84.9	63.7	63.7
92.5°	67.0	180.9	294.8	323.3	454.5	629.5	717.0	628.3	451.1	318.3	305.7
95°	160.8	369.2	577.7	629.9	1118.5	1770.0	2095.7	1870.1	1419.0	1080.6	1042.2
97.5°	278.1	462.0	645.9	691.9	1506.6	2592.9	3136.0	2993.5	2708.3	2494.4	2421.5
100°	368.5	535.3	702.1	743.8	1647.9	2853.3	3456.0	3466.4	3487.2	3502.9	3416.0
102.5°	445.6	601.2	756.8	795.8	1712.6	2935.2	3546.5	3728.2	4091.5	4364.0	4289.5
105°	576.3	708.1	839.9	872.8	1760.7	2944.5	3536.4	3943.7	4758.2	5369.1	5329.1
107.5°	710.3	833.2	956.0	986.7	1769.6	2813.4	3335.4	3903.5	5039.6	5891.8	5901.4
110°	800.8	911.7	1022.6	1050.4	1756.2	2697.3	3167.9	3803.0	5073.2	6025.8	6067.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	889.6	995.3	1101.1	1127.5	1756.8	2595.9	3015.4	3665.4	4965.4	5940.4	6004.4
115°	1023.6	1121.1	1218.7	1243.1	1773.0	2479.6	2832.9	3459.0	4711.3	5650.6	5739.4
117.5°	1155.9	1244.5	1333.1	1355.2	1805.8	2406.7	2707.2	3272.3	4402.5	5250.2	5348.7
120°	1232.9	1316.4	1399.7	1420.6	1832.7	2382.2	2656.9	3173.3	4205.9	4980.4	5076.2
122.5°	1308.3	1392.5	1476.6	1497.7	1871.3	2369.4	2618.4	3083.4	4013.3	4710.8	4805.1
125°	1424.0	1500.6	1577.4	1596.5	1923.2	2358.8	2576.5	2971.5	3761.5	4353.9	4440.8
127.5°	1517.7	1595.2	1672.6	1692.0	1975.1	2352.6	2541.3	2880.5	3558.8	4067.5	4140.8
130°	1568.0	1651.4	1734.8	1755.6	2013.0	2356.3	2527.9	2829.8	3433.7	3886.5	3954.3
132.5°	1620.0	1703.3	1786.7	1807.5	2043.7	2358.7	2516.2	2786.5	3327.1	3732.5	3793.2
135°	1697.0	1772.9	1848.9	1867.9	2077.3	2356.6	2496.1	2722.5	3175.1	3514.6	3566.9
137.5°	1775.8	1851.0	1926.2	1945.0	2127.5	2371.0	2492.7	2684.1	3066.8	3353.8	3396.6
140°	1841.1	1910.3	1979.6	1996.9	2158.2	2373.4	2481.0	2646.3	2976.9	3224.8	3264.8
142.5°	1891.3	1955.4	2019.4	2035.4	2183.9	2382.0	2481.0	2626.2	2916.6	3134.4	3168.9
145°	1968.4	2024.3	2080.1	2094.0	2217.4	2382.0	2464.3	2583.0	2820.5	2998.7	3024.7
147.5°	2045.4	2099.8	2154.1	2167.7	2266.6	2398.4	2464.3	2557.7	2744.6	2884.8	2906.4
150°	2095.7	2144.9	2194.1	2206.3	2292.3	2407.0	2464.3	2543.2	2701.1	2819.4	2836.9
152.5°	2147.7	2184.9	2222.1	2231.4	2309.0	2412.5	2464.3	2531.7	2666.4	2767.5	2780.7
155°	2224.8	2252.3	2279.8	2286.7	2345.9	2424.8	2464.3	2517.9	2625.1	2705.5	2714.3
157.5°	2281.7	2308.5	2335.2	2342.0	2382.7	2437.0	2464.3	2506.0	2589.3	2651.9	2658.1
160°	2320.2	2341.1	2361.9	2367.1	2399.5	2442.7	2464.3	2500.0	2571.4	2625.1	2628.6
162.5°	2358.7	2374.4	2389.9	2393.9	2417.3	2448.6	2464.3	2494.4	2554.8	2600.0	2603.3
165°	2400.6	2414.7	2428.9	2432.5	2443.0	2457.2	2464.3	2485.8	2529.0	2561.4	2565.0
167.5°	2439.2	2445.9	2452.5	2454.2	2463.2	2475.1	2481.0	2495.1	2523.4	2544.7	2546.2
170°	2464.3	2471.0	2477.7	2479.4	2479.9	2480.6	2481.0	2495.1	2523.4	2544.7	2544.7
172.5°	2477.7	2479.1	2480.6	2481.0	2481.0	2481.0	2481.0	2492.2	2514.6	2531.3	2530.0
175°	2496.1	2496.1	2496.1	2496.1	2491.1	2484.4	2481.0	2488.1	2502.2	2512.9	2512.9
177.5°	2496.1	2496.1	2496.1	2496.1	2492.2	2487.0	2484.4	2490.0	2501.1	2509.5	2507.9
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3846.9	3836.2	3846.9	3839.7	3843.3	3832.7	3800.7	3790.0	3800.7	3811.3	3811.3
5°	3893.0	3885.9	3893.0	3893.0	3889.4	3882.3	3846.9	3839.7	3846.9	3850.4	3843.3
7.5°	3907.1	3896.6	3907.1	3900.1	3900.1	3893.0	3857.5	3850.4	3854.0	3864.6	3854.0
10°	3907.1	3896.6	3907.1	3903.6	3900.1	3893.0	3857.5	3843.3	3843.3	3854.0	3843.3
12.5°	3889.4	3882.3	3889.4	3882.3	3882.3	3875.3	3839.7	3825.6	3829.1	3832.7	3818.5
15°	3861.0	3850.4	3861.0	3854.0	3857.5	3846.9	3807.9	3793.6	3793.6	3800.7	3775.9
17.5°	3818.5	3804.3	3818.5	3814.9	3811.3	3804.3	3768.8	3754.6	3751.0	3754.6	3736.9
20°	3768.8	3758.2	3768.8	3765.2	3765.2	3751.0	3715.5	3697.8	3697.8	3697.8	3680.1
22.5°	3690.7	3680.1	3690.7	3697.8	3697.8	3694.2	3662.3	3637.5	3630.4	3630.4	3609.1
25°	3602.0	3591.4	3602.0	3602.0	3598.4	3602.0	3591.4	3577.1	3566.5	3555.8	3534.6
27.5°	3516.8	3509.7	3516.8	3509.7	3516.8	3506.1	3502.6	3499.1	3484.9	3474.3	3445.9
30°	3431.6	3424.6	3431.6	3424.6	3417.5	3410.3	3392.6	3385.5	3399.7	3392.6	3346.5
32.5°	3325.2	3318.1	3325.2	3325.2	3318.1	3318.1	3289.7	3279.1	3282.6	3303.9	3261.3
35°	3215.2	3204.5	3215.2	3211.7	3215.2	3204.5	3186.8	3183.2	3169.0	3193.8	3162.0
37.5°	3087.4	3076.7	3087.4	3087.4	3087.4	3094.6	3080.3	3069.7	3048.4	3080.3	3055.5
40°	2956.1	2941.9	2956.1	2952.6	2956.1	2963.2	2956.1	2949.0	2927.8	2952.6	2931.3
42.5°	2807.1	2803.5	2807.1	2810.7	2810.7	2824.8	2835.5	2821.2	2814.1	2796.4	2810.7
45°	2647.3	2640.3	2647.3	2654.5	2658.0	2665.1	2697.0	2697.0	2686.4	2658.0	2679.3
47.5°	2477.1	2459.3	2477.1	2498.4	2498.4	2508.9	2540.9	2565.8	2548.0	2512.5	2523.2
50°	2296.0	2299.6	2296.0	2310.3	2310.3	2349.3	2374.1	2399.0	2416.7	2374.1	2324.4
52.5°	2118.6	2115.1	2118.6	2129.2	2143.5	2161.2	2203.8	2228.6	2257.0	2232.2	2154.1
55°	1941.1	1948.3	1941.1	1944.7	1951.8	1962.4	2026.4	2051.2	2104.4	2072.5	1990.8
57.5°	1763.8	1753.1	1763.8	1770.8	1774.4	1785.0	1838.3	1884.4	1916.3	1919.9	1820.5
60°	1557.9	1543.7	1557.9	1589.8	1597.0	1604.0	1653.7	1696.3	1724.7	1735.4	1632.4
62.5°	1376.9	1352.1	1376.9	1398.2	1412.4	1430.2	1465.6	1529.6	1554.4	1557.9	1412.4
65°	1185.3	1174.6	1185.3	1227.8	1231.4	1252.7	1291.8	1337.9	1391.1	1384.0	1174.6
67.5°	1011.4	1011.4	1011.4	1039.8	1061.0	1071.7	1121.4	1142.7	1210.1	1217.3	979.5
70°	851.7	848.1	851.7	873.0	887.2	912.1	958.2	983.0	1036.2	1054.0	794.9
72.5°	699.1	695.6	699.1	716.9	731.0	752.3	791.4	819.7	865.9	887.2	617.5
75°	564.2	557.2	564.2	578.5	574.9	603.3	635.2	663.6	706.2	720.4	457.8
77.5°	433.0	433.0	433.0	447.1	447.1	475.5	489.7	525.2	550.1	571.4	337.2
80°	322.9	319.4	322.9	326.5	326.5	340.7	365.6	390.4	411.7	411.7	230.6
82.5°	227.1	220.0	227.1	227.1	227.1	234.2	248.4	255.5	269.7	280.3	145.5
85°	141.9	141.9	141.9	145.5	141.9	149.1	152.6	159.7	159.7	152.6	88.7
87.5°	92.3	88.7	92.3	88.7	88.7	85.1	85.1	85.1	81.7	78.1	49.7
90°	63.7	63.7	63.7	63.7	63.7	84.9	113.2	127.3	109.4	73.7	46.9
92.5°	255.0	204.4	255.0	305.7	318.3	451.1	628.3	717.0	629.5	454.5	323.3
95°	888.8	735.4	888.8	1042.2	1080.6	1419.0	1870.1	2095.7	1770.0	1118.5	629.9
97.5°	2129.6	1837.7	2129.6	2421.5	2494.4	2708.3	2993.5	3136.0	2592.9	1506.6	691.9
100°	3068.3	2720.6	3068.3	3416.0	3502.9	3487.2	3466.4	3456.0	2853.3	1647.9	743.8
102.5°	3991.7	3693.9	3991.7	4289.5	4364.0	4091.5	3728.2	3546.5	2935.2	1712.6	795.8
105°	5169.1	5009.0	5169.1	5329.1	5369.1	4758.2	3943.7	3536.4	2944.5	1760.7	872.8
107.5°	5940.2	5978.9	5940.2	5901.4	5891.8	5039.6	3903.5	3335.4	2813.4	1769.6	986.7
110°	6234.3	6401.1	6234.3	6067.5	6025.8	5073.2	3803.0	3167.9	2697.3	1756.2	1050.4



TEST NUMBER: P936054

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6260.6	6516.7	6260.6	6004.4	5940.4	4965.4	3665.4	3015.4	2595.9	1756.8	1127.5
115°	6094.5	6449.6	6094.5	5739.4	5650.6	4711.3	3459.0	2832.9	2479.6	1773.0	1243.1
117.5°	5742.5	6136.4	5742.5	5348.7	5250.2	4402.5	3272.3	2707.2	2406.7	1805.8	1355.2
120°	5458.8	5841.6	5458.8	5076.2	4980.4	4205.9	3173.3	2656.9	2382.2	1832.7	1420.6
122.5°	5182.7	5560.2	5182.7	4805.1	4710.8	4013.3	3083.4	2618.4	2369.4	1871.3	1497.7
125°	4788.6	5136.3	4788.6	4440.8	4353.9	3761.5	2971.5	2576.5	2358.8	1923.2	1596.5
127.5°	4434.2	4727.5	4434.2	4140.8	4067.5	3558.8	2880.5	2541.3	2352.6	1975.1	1692.0
130°	4225.3	4496.3	4225.3	3954.3	3886.5	3433.7	2829.8	2527.9	2356.3	2013.0	1755.6
132.5°	4035.8	4278.5	4035.8	3793.2	3732.5	3327.1	2786.5	2516.2	2358.7	2043.7	1807.5
135°	3776.2	3985.4	3776.2	3566.9	3514.6	3175.1	2722.5	2496.1	2356.6	2077.3	1867.9
137.5°	3567.9	3739.1	3567.9	3396.6	3353.8	3066.8	2684.1	2492.7	2371.0	2127.5	1945.0
140°	3424.9	3585.0	3424.9	3264.8	3224.8	2976.9	2646.3	2481.0	2373.4	2158.2	1996.9
142.5°	3306.6	3444.3	3306.6	3168.9	3134.4	2916.6	2626.2	2481.0	2382.0	2183.9	2035.4
145°	3129.0	3233.2	3129.0	3024.7	2998.7	2820.5	2583.0	2464.3	2382.0	2217.4	2094.0
147.5°	2992.8	3079.1	2992.8	2906.4	2884.8	2744.6	2557.7	2464.3	2398.4	2266.6	2167.7
150°	2906.9	2976.9	2906.9	2836.9	2819.4	2701.1	2543.2	2464.3	2407.0	2292.3	2206.3
152.5°	2833.6	2886.4	2833.6	2780.7	2767.5	2666.4	2531.7	2464.3	2412.5	2309.0	2231.4
155°	2749.2	2784.2	2749.2	2714.3	2705.5	2625.1	2517.9	2464.3	2424.8	2345.9	2286.7
157.5°	2682.6	2707.2	2682.6	2658.1	2651.9	2589.3	2506.0	2464.3	2437.0	2382.7	2342.0
160°	2642.8	2656.9	2642.8	2628.6	2625.1	2571.4	2500.0	2464.3	2442.7	2399.5	2367.1
162.5°	2616.7	2630.2	2616.7	2603.3	2600.0	2554.8	2494.4	2464.3	2448.6	2417.3	2393.9
165°	2579.1	2593.3	2579.1	2565.0	2561.4	2529.0	2485.8	2464.3	2457.2	2443.0	2432.5
167.5°	2552.1	2558.1	2552.1	2546.2	2544.7	2523.4	2495.1	2481.0	2475.1	2463.2	2454.2
170°	2544.7	2544.7	2544.7	2544.7	2544.7	2523.4	2495.1	2481.0	2480.6	2479.9	2479.4
172.5°	2524.8	2519.6	2524.8	2530.0	2531.3	2514.6	2492.2	2481.0	2481.0	2481.0	2481.0
175°	2512.9	2512.9	2512.9	2512.9	2512.9	2502.2	2488.1	2481.0	2484.4	2491.1	2496.1
177.5°	2502.0	2496.1	2502.0	2507.9	2509.5	2501.1	2490.0	2484.4	2487.0	2492.2	2496.1
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3804.3	3783.0	3783.0	3747.5	3733.3	3722.6	3704.9	3651.7	3637.5	3623.2	3644.5
5°	3836.2	3797.2	3768.8	3704.9	3651.7	3630.4	3563.0	3435.2	3350.0	3286.2	3250.7
7.5°	3843.3	3793.6	3740.3	3641.1	3513.3	3456.5	3250.7	3016.5	2952.6	2895.8	2860.3
10°	3836.2	3779.5	3704.9	3555.8	3254.2	3154.8	2949.0	2796.4	2757.4	2746.7	2757.4
12.5°	3811.3	3758.2	3655.2	3406.8	2984.5	2917.1	2796.4	2707.7	2700.6	2718.3	2814.1
15°	3768.8	3719.1	3598.4	3208.1	2835.5	2785.8	2700.6	2668.7	2707.7	2831.9	3119.4
17.5°	3726.2	3669.4	3520.4	3012.9	2721.9	2686.4	2626.0	2690.0	2909.9	3076.7	3172.6
20°	3669.4	3602.0	3431.6	2870.9	2640.3	2608.3	2579.9	2867.4	3034.2	3094.6	3147.7
22.5°	3602.0	3531.0	3311.0	2771.6	2555.1	2530.2	2548.0	2966.8	3034.2	3076.7	3122.9
25°	3513.3	3452.9	3169.0	2693.5	2487.7	2459.3	2526.7	2956.1	2995.2	3005.8	3098.0
27.5°	3431.6	3353.6	3020.0	2622.5	2406.1	2395.4	2544.5	2909.9	2938.4	2949.0	3048.4
30°	3332.3	3215.2	2853.2	2548.0	2320.9	2317.3	2548.0	2853.2	2846.1	2874.5	2973.9
32.5°	3229.4	3009.3	2665.1	2455.8	2239.3	2235.7	2523.2	2768.0	2761.0	2800.0	2874.5
35°	3133.6	2849.7	2409.6	2349.3	2136.4	2139.9	2462.8	2668.7	2672.2	2707.7	2753.8
37.5°	3034.2	2711.3	2129.2	2232.2	2037.0	2037.0	2381.2	2576.4	2569.3	2579.9	2643.9
40°	2917.1	2494.8	1880.9	2079.5	1944.7	1934.1	2281.9	2477.1	2452.2	2448.7	2537.4
42.5°	2792.8	2257.0	1696.3	1877.3	1838.3	1824.0	2161.2	2356.4	2310.3	2320.9	2434.4
45°	2658.0	2193.2	1554.4	1586.3	1728.2	1717.6	2029.9	2218.0	2186.0	2214.5	2331.6
47.5°	2523.2	2065.4	1508.2	1316.6	1611.1	1607.6	1884.4	2083.1	2065.4	2093.8	2218.0
50°	2338.6	1923.4	1504.7	1128.5	1479.9	1494.0	1710.5	1951.8	1951.8	1976.7	2107.9
52.5°	2100.8	1749.5	1366.2	1022.0	1327.2	1369.8	1557.9	1838.3	1845.3	1870.2	1987.3
55°	1884.4	1568.6	1266.9	940.4	1146.3	1238.5	1408.9	1721.1	1735.4	1760.2	1866.6
57.5°	1685.7	1305.9	1245.6	844.6	979.5	1068.2	1277.5	1607.6	1614.7	1636.0	1738.9
60°	1472.7	943.9	1142.7	741.7	834.0	901.4	1156.9	1472.7	1497.6	1511.7	1600.5
62.5°	1231.4	684.9	1036.2	670.7	763.0	777.2	1057.5	1344.9	1376.9	1387.6	1440.8
65°	876.5	574.9	880.1	610.4	688.5	692.0	951.1	1213.7	1242.1	1259.8	1298.8
67.5°	592.6	468.4	670.7	553.6	631.6	635.2	848.1	1061.0	1100.1	1114.3	1139.2
70°	411.7	312.3	496.8	493.3	567.8	574.9	738.2	922.7	958.2	968.8	983.0
72.5°	301.6	251.9	411.7	443.6	500.4	507.5	624.6	766.6	802.0	812.7	819.7
75°	230.6	266.2	333.6	386.8	425.8	429.4	511.0	624.6	649.5	656.5	660.0
77.5°	184.5	248.4	244.9	312.3	347.7	340.7	401.0	482.7	503.9	503.9	503.9
80°	138.4	195.2	184.5	223.6	255.5	248.4	287.5	344.2	351.3	358.4	354.9
82.5°	102.9	124.2	124.2	141.9	170.4	163.2	191.6	223.6	223.6	223.6	230.6
85°	63.8	71.0	56.8	74.5	95.8	92.3	106.5	120.7	124.2	124.2	117.1
87.5°	39.0	32.0	17.7	28.4	42.6	42.6	49.7	53.3	49.7	49.7	49.7
90°	43.6	30.2	16.7	30.2	43.6	46.9	73.7	109.4	127.3	113.2	84.9
92.5°	294.8	180.9	67.0	180.9	294.8	323.3	454.5	629.5	717.0	628.3	451.1
95°	577.7	369.2	160.8	369.2	577.7	629.9	1118.5	1770.0	2095.7	1870.1	1419.0
97.5°	645.9	462.0	278.1	462.0	645.9	691.9	1506.6	2592.9	3136.0	2993.5	2708.3
100°	702.1	535.3	368.5	535.3	702.1	743.8	1647.9	2853.3	3456.0	3466.4	3487.2
102.5°	756.8	601.2	445.6	601.2	756.8	795.8	1712.6	2935.2	3546.5	3728.2	4091.5
105°	839.9	708.1	576.3	708.1	839.9	872.8	1760.7	2944.5	3536.4	3943.7	4758.2
107.5°	956.0	833.2	710.3	833.2	956.0	986.7	1769.6	2813.4	3335.4	3903.5	5039.6
110°	1022.6	911.7	800.8	911.7	1022.6	1050.4	1756.2	2697.3	3167.9	3803.0	5073.2



TEST NUMBER: P936054

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1101.1	995.3	889.6	995.3	1101.1	1127.5	1756.8	2595.9	3015.4	3665.4	4965.4
115°	1218.7	1121.1	1023.6	1121.1	1218.7	1243.1	1773.0	2479.6	2832.9	3459.0	4711.3
117.5°	1333.1	1244.5	1155.9	1244.5	1333.1	1355.2	1805.8	2406.7	2707.2	3272.3	4402.5
120°	1399.7	1316.4	1232.9	1316.4	1399.7	1420.6	1832.7	2382.2	2656.9	3173.3	4205.9
122.5°	1476.6	1392.5	1308.3	1392.5	1476.6	1497.7	1871.3	2369.4	2618.4	3083.4	4013.3
125°	1577.4	1500.6	1424.0	1500.6	1577.4	1596.5	1923.2	2358.8	2576.5	2971.5	3761.5
127.5°	1672.6	1595.2	1517.7	1595.2	1672.6	1692.0	1975.1	2352.6	2541.3	2880.5	3558.8
130°	1734.8	1651.4	1568.0	1651.4	1734.8	1755.6	2013.0	2356.3	2527.9	2829.8	3433.7
132.5°	1786.7	1703.3	1620.0	1703.3	1786.7	1807.5	2043.7	2358.7	2516.2	2786.5	3327.1
135°	1848.9	1772.9	1697.0	1772.9	1848.9	1867.9	2077.3	2356.6	2496.1	2722.5	3175.1
137.5°	1926.2	1851.0	1775.8	1851.0	1926.2	1945.0	2127.5	2371.0	2492.7	2684.1	3066.8
140°	1979.6	1910.3	1841.1	1910.3	1979.6	1996.9	2158.2	2373.4	2481.0	2646.3	2976.9
142.5°	2019.4	1955.4	1891.3	1955.4	2019.4	2035.4	2183.9	2382.0	2481.0	2626.2	2916.6
145°	2080.1	2024.3	1968.4	2024.3	2080.1	2094.0	2217.4	2382.0	2464.3	2583.0	2820.5
147.5°	2154.1	2099.8	2045.4	2099.8	2154.1	2167.7	2266.6	2398.4	2464.3	2557.7	2744.6
150°	2194.1	2144.9	2095.7	2144.9	2194.1	2206.3	2292.3	2407.0	2464.3	2543.2	2701.1
152.5°	2222.1	2184.9	2147.7	2184.9	2222.1	2231.4	2309.0	2412.5	2464.3	2531.7	2666.4
155°	2279.8	2252.3	2224.8	2252.3	2279.8	2286.7	2345.9	2424.8	2464.3	2517.9	2625.1
157.5°	2335.2	2308.5	2281.7	2308.5	2335.2	2342.0	2382.7	2437.0	2464.3	2506.0	2589.3
160°	2361.9	2341.1	2320.2	2341.1	2361.9	2367.1	2399.5	2442.7	2464.3	2500.0	2571.4
162.5°	2389.9	2374.4	2358.7	2374.4	2389.9	2393.9	2417.3	2448.6	2464.3	2494.4	2554.8
165°	2428.9	2414.7	2400.6	2414.7	2428.9	2432.5	2443.0	2457.2	2464.3	2485.8	2529.0
167.5°	2452.5	2445.9	2439.2	2445.9	2452.5	2454.2	2463.2	2475.1	2481.0	2495.1	2523.4
170°	2477.7	2471.0	2464.3	2471.0	2477.7	2479.4	2479.9	2480.6	2481.0	2495.1	2523.4
172.5°	2480.6	2479.1	2477.7	2479.1	2480.6	2481.0	2481.0	2481.0	2481.0	2492.2	2514.6
175°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2491.1	2484.4	2481.0	2488.1	2502.2
177.5°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2492.2	2487.0	2484.4	2490.0	2501.1
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



TEST NUMBER: P936054

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3619.7	3609.1	3623.2	3584.2	3623.2	3609.1	3619.7	3644.5	3623.2	3637.5	3651.7
5°	3176.1	3158.4	3101.6	3055.5	3101.6	3158.4	3176.1	3250.7	3286.2	3350.0	3435.2
7.5°	2839.0	2824.8	2810.7	2782.2	2810.7	2824.8	2839.0	2860.3	2895.8	2952.6	3016.5
10°	2764.5	2768.0	2789.3	2785.8	2789.3	2768.0	2764.5	2757.4	2746.7	2757.4	2796.4
12.5°	2956.1	2988.0	3105.1	3098.0	3105.1	2988.0	2956.1	2814.1	2718.3	2700.6	2707.7
15°	3176.1	3186.8	3211.7	3215.2	3211.7	3186.8	3176.1	3119.4	2831.9	2707.7	2668.7
17.5°	3197.4	3201.0	3218.7	3218.7	3218.7	3201.0	3197.4	3172.6	3076.7	2909.9	2690.0
20°	3179.7	3186.8	3222.2	3229.4	3222.2	3186.8	3179.7	3147.7	3094.6	3034.2	2867.4
22.5°	3172.6	3186.8	3215.2	3211.7	3215.2	3186.8	3172.6	3122.9	3076.7	3034.2	2966.8
25°	3137.1	3137.1	3140.7	3144.2	3140.7	3137.1	3137.1	3098.0	3005.8	2995.2	2956.1
27.5°	3062.6	3069.7	3091.0	3087.4	3091.0	3069.7	3062.6	3048.4	2949.0	2938.4	2909.9
30°	2995.2	2988.0	2970.3	2956.1	2970.3	2988.0	2995.2	2973.9	2874.5	2846.1	2853.2
32.5°	2881.6	2863.8	2846.1	2835.5	2846.1	2863.8	2881.6	2874.5	2800.0	2761.0	2768.0
35°	2746.7	2750.3	2746.7	2736.1	2746.7	2750.3	2746.7	2753.8	2707.7	2672.2	2668.7
37.5°	2650.9	2658.0	2654.5	2640.3	2654.5	2658.0	2650.9	2643.9	2579.9	2569.3	2576.4
40°	2551.5	2555.1	2551.5	2540.9	2551.5	2555.1	2551.5	2537.4	2448.7	2452.2	2477.1
42.5°	2455.8	2452.2	2441.5	2434.4	2441.5	2452.2	2455.8	2434.4	2320.9	2310.3	2356.4
45°	2345.7	2349.3	2328.0	2317.3	2328.0	2349.3	2345.7	2331.6	2214.5	2186.0	2218.0
47.5°	2235.7	2235.7	2218.0	2207.3	2218.0	2235.7	2235.7	2218.0	2093.8	2065.4	2083.1
50°	2118.6	2115.1	2090.2	2086.7	2090.2	2115.1	2118.6	2107.9	1976.7	1951.8	1951.8
52.5°	1983.7	1983.7	1987.3	1994.4	1987.3	1983.7	1983.7	1987.3	1870.2	1845.3	1838.3
55°	1866.6	1870.2	1895.0	1902.1	1895.0	1870.2	1866.6	1866.6	1760.2	1735.4	1721.1
57.5°	1745.9	1745.9	1763.8	1763.8	1763.8	1745.9	1745.9	1738.9	1636.0	1614.7	1607.6
60°	1607.6	1614.7	1628.8	1625.3	1628.8	1614.7	1607.6	1600.5	1511.7	1497.6	1472.7
62.5°	1462.0	1469.2	1472.7	1465.6	1472.7	1469.2	1462.0	1440.8	1387.6	1376.9	1344.9
65°	1309.5	1316.6	1320.1	1313.1	1320.1	1316.6	1309.5	1298.8	1259.8	1242.1	1213.7
67.5°	1153.3	1149.8	1146.3	1160.4	1146.3	1149.8	1153.3	1139.2	1114.3	1100.1	1061.0
70°	993.6	993.6	990.1	997.2	990.1	993.6	993.6	983.0	968.8	958.2	922.7
72.5°	823.3	819.7	834.0	823.3	834.0	819.7	823.3	819.7	812.7	802.0	766.6
75°	656.5	663.6	656.5	667.2	656.5	663.6	656.5	660.0	656.5	649.5	624.6
77.5°	500.4	507.5	500.4	500.4	500.4	507.5	500.4	503.9	503.9	503.9	482.7
80°	354.9	351.3	351.3	347.7	351.3	351.3	354.9	354.9	358.4	351.3	344.2
82.5°	227.1	223.6	223.6	230.6	223.6	223.6	227.1	230.6	223.6	223.6	223.6
85°	124.2	127.8	120.7	120.7	120.7	127.8	124.2	117.1	124.2	124.2	120.7
87.5°	46.1	42.6	42.6	42.6	42.6	42.6	46.1	49.7	49.7	49.7	53.3
90°	63.7	63.7	63.7	63.7	63.7	63.7	63.7	84.9	113.2	127.3	109.4
92.5°	318.3	305.7	255.0	204.4	255.0	305.7	318.3	451.1	628.3	717.0	629.5
95°	1080.6	1042.2	888.8	735.4	888.8	1042.2	1080.6	1419.0	1870.1	2095.7	1770.0
97.5°	2494.4	2421.5	2129.6	1837.7	2129.6	2421.5	2494.4	2708.3	2993.5	3136.0	2592.9
100°	3502.9	3416.0	3068.3	2720.6	3068.3	3416.0	3502.9	3487.2	3466.4	3456.0	2853.3
102.5°	4364.0	4289.5	3991.7	3693.9	3991.7	4289.5	4364.0	4091.5	3728.2	3546.5	2935.2
105°	5369.1	5329.1	5169.1	5009.0	5169.1	5329.1	5369.1	4758.2	3943.7	3536.4	2944.5
107.5°	5891.8	5901.4	5940.2	5978.9	5940.2	5901.4	5891.8	5039.6	3903.5	3335.4	2813.4
110°	6025.8	6067.5	6234.3	6401.1	6234.3	6067.5	6025.8	5073.2	3803.0	3167.9	2697.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	5940.4	6004.4	6260.6	6516.7	6260.6	6004.4	5940.4	4965.4	3665.4	3015.4	2595.9
115°	5650.6	5739.4	6094.5	6449.6	6094.5	5739.4	5650.6	4711.3	3459.0	2832.9	2479.6
117.5°	5250.2	5348.7	5742.5	6136.4	5742.5	5348.7	5250.2	4402.5	3272.3	2707.2	2406.7
120°	4980.4	5076.2	5458.8	5841.6	5458.8	5076.2	4980.4	4205.9	3173.3	2656.9	2382.2
122.5°	4710.8	4805.1	5182.7	5560.2	5182.7	4805.1	4710.8	4013.3	3083.4	2618.4	2369.4
125°	4353.9	4440.8	4788.6	5136.3	4788.6	4440.8	4353.9	3761.5	2971.5	2576.5	2358.8
127.5°	4067.5	4140.8	4434.2	4727.5	4434.2	4140.8	4067.5	3558.8	2880.5	2541.3	2352.6
130°	3886.5	3954.3	4225.3	4496.3	4225.3	3954.3	3886.5	3433.7	2829.8	2527.9	2356.3
132.5°	3732.5	3793.2	4035.8	4278.5	4035.8	3793.2	3732.5	3327.1	2786.5	2516.2	2358.7
135°	3514.6	3566.9	3776.2	3985.4	3776.2	3566.9	3514.6	3175.1	2722.5	2496.1	2356.6
137.5°	3353.8	3396.6	3567.9	3739.1	3567.9	3396.6	3353.8	3066.8	2684.1	2492.7	2371.0
140°	3224.8	3264.8	3424.9	3585.0	3424.9	3264.8	3224.8	2976.9	2646.3	2481.0	2373.4
142.5°	3134.4	3168.9	3306.6	3444.3	3306.6	3168.9	3134.4	2916.6	2626.2	2481.0	2382.0
145°	2998.7	3024.7	3129.0	3233.2	3129.0	3024.7	2998.7	2820.5	2583.0	2464.3	2382.0
147.5°	2884.8	2906.4	2992.8	3079.1	2992.8	2906.4	2884.8	2744.6	2557.7	2464.3	2398.4
150°	2819.4	2836.9	2906.9	2976.9	2906.9	2836.9	2819.4	2701.1	2543.2	2464.3	2407.0
152.5°	2767.5	2780.7	2833.6	2886.4	2833.6	2780.7	2767.5	2666.4	2531.7	2464.3	2412.5
155°	2705.5	2714.3	2749.2	2784.2	2749.2	2714.3	2705.5	2625.1	2517.9	2464.3	2424.8
157.5°	2651.9	2658.1	2682.6	2707.2	2682.6	2658.1	2651.9	2589.3	2506.0	2464.3	2437.0
160°	2625.1	2628.6	2642.8	2656.9	2642.8	2628.6	2625.1	2571.4	2500.0	2464.3	2442.7
162.5°	2600.0	2603.3	2616.7	2630.2	2616.7	2603.3	2600.0	2554.8	2494.4	2464.3	2448.6
165°	2561.4	2565.0	2579.1	2593.3	2579.1	2565.0	2561.4	2529.0	2485.8	2464.3	2457.2
167.5°	2544.7	2546.2	2552.1	2558.1	2552.1	2546.2	2544.7	2523.4	2495.1	2481.0	2475.1
170°	2544.7	2544.7	2544.7	2544.7	2544.7	2544.7	2544.7	2523.4	2495.1	2481.0	2480.6
172.5°	2531.3	2530.0	2524.8	2519.6	2524.8	2530.0	2531.3	2514.6	2492.2	2481.0	2481.0
175°	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2502.2	2488.1	2481.0	2484.4
177.5°	2509.5	2507.9	2502.0	2496.1	2502.0	2507.9	2509.5	2501.1	2490.0	2484.4	2487.0
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



TEST NUMBER: P936054

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3751.0	3751.0	3751.0	3751.0	3751.0
2.5°	3704.9	3722.6	3733.3	3747.5	3783.0
5°	3563.0	3630.4	3651.7	3704.9	3768.8
7.5°	3250.7	3456.5	3513.3	3641.1	3740.3
10°	2949.0	3154.8	3254.2	3555.8	3704.9
12.5°	2796.4	2917.1	2984.5	3406.8	3655.2
15°	2700.6	2785.8	2835.5	3208.1	3598.4
17.5°	2626.0	2686.4	2721.9	3012.9	3520.4
20°	2579.9	2608.3	2640.3	2870.9	3431.6
22.5°	2548.0	2530.2	2555.1	2771.6	3311.0
25°	2526.7	2459.3	2487.7	2693.5	3169.0
27.5°	2544.5	2395.4	2406.1	2622.5	3020.0
30°	2548.0	2317.3	2320.9	2548.0	2853.2
32.5°	2523.2	2235.7	2239.3	2455.8	2665.1
35°	2462.8	2139.9	2136.4	2349.3	2409.6
37.5°	2381.2	2037.0	2037.0	2232.2	2129.2
40°	2281.9	1934.1	1944.7	2079.5	1880.9
42.5°	2161.2	1824.0	1838.3	1877.3	1696.3
45°	2029.9	1717.6	1728.2	1586.3	1554.4
47.5°	1884.4	1607.6	1611.1	1316.6	1508.2
50°	1710.5	1494.0	1479.9	1128.5	1504.7
52.5°	1557.9	1369.8	1327.2	1022.0	1366.2
55°	1408.9	1238.5	1146.3	940.4	1266.9
57.5°	1277.5	1068.2	979.5	844.6	1245.6
60°	1156.9	901.4	834.0	741.7	1142.7
62.5°	1057.5	777.2	763.0	670.7	1036.2
65°	951.1	692.0	688.5	610.4	880.1
67.5°	848.1	635.2	631.6	553.6	670.7
70°	738.2	574.9	567.8	493.3	496.8
72.5°	624.6	507.5	500.4	443.6	411.7
75°	511.0	429.4	425.8	386.8	333.6
77.5°	401.0	340.7	347.7	312.3	244.9
80°	287.5	248.4	255.5	223.6	184.5
82.5°	191.6	163.2	170.4	141.9	124.2
85°	106.5	92.3	95.8	74.5	56.8
87.5°	49.7	42.6	42.6	28.4	17.7
90°	73.7	46.9	43.6	30.2	16.7
92.5°	454.5	323.3	294.8	180.9	67.0
95°	1118.5	629.9	577.7	369.2	160.8
97.5°	1506.6	691.9	645.9	462.0	278.1
100°	1647.9	743.8	702.1	535.3	368.5
102.5°	1712.6	795.8	756.8	601.2	445.6
105°	1760.7	872.8	839.9	708.1	576.3
107.5°	1769.6	986.7	956.0	833.2	710.3
110°	1756.2	1050.4	1022.6	911.7	800.8



TEST NUMBER: P936054

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1756.8	1127.5	1101.1	995.3	889.6
115°	1773.0	1243.1	1218.7	1121.1	1023.6
117.5°	1805.8	1355.2	1333.1	1244.5	1155.9
120°	1832.7	1420.6	1399.7	1316.4	1232.9
122.5°	1871.3	1497.7	1476.6	1392.5	1308.3
125°	1923.2	1596.5	1577.4	1500.6	1424.0
127.5°	1975.1	1692.0	1672.6	1595.2	1517.7
130°	2013.0	1755.6	1734.8	1651.4	1568.0
132.5°	2043.7	1807.5	1786.7	1703.3	1620.0
135°	2077.3	1867.9	1848.9	1772.9	1697.0
137.5°	2127.5	1945.0	1926.2	1851.0	1775.8
140°	2158.2	1996.9	1979.6	1910.3	1841.1
142.5°	2183.9	2035.4	2019.4	1955.4	1891.3
145°	2217.4	2094.0	2080.1	2024.3	1968.4
147.5°	2266.6	2167.7	2154.1	2099.8	2045.4
150°	2292.3	2206.3	2194.1	2144.9	2095.7
152.5°	2309.0	2231.4	2222.1	2184.9	2147.7
155°	2345.9	2286.7	2279.8	2252.3	2224.8
157.5°	2382.7	2342.0	2335.2	2308.5	2281.7
160°	2399.5	2367.1	2361.9	2341.1	2320.2
162.5°	2417.3	2393.9	2389.9	2374.4	2358.7
165°	2443.0	2432.5	2428.9	2414.7	2400.6
167.5°	2463.2	2454.2	2452.5	2445.9	2439.2
170°	2479.9	2479.4	2477.7	2471.0	2464.3
172.5°	2481.0	2481.0	2480.6	2479.1	2477.7
175°	2491.1	2496.1	2496.1	2496.1	2496.1
177.5°	2492.2	2496.1	2496.1	2496.1	2496.1
180°	2496.1	2496.1	2496.1	2496.1	2496.1



TEST NUMBER: P936054
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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	12.06	12.82	13.11	13.88	15.32	14.91	15.67	15.96	16.73	18.17
	3H	12.53	13.21	13.59	14.27	15.73	16.25	16.93	17.32	18.00	19.46
	4H	12.71	13.36	13.79	14.43	15.89	16.70	17.34	17.77	18.41	19.87
	6H	12.82	13.42	13.91	14.49	15.97	16.98	17.57	18.07	18.65	20.12
	8H	12.82	13.39	13.91	14.48	15.95	17.05	17.62	18.15	18.71	20.18
	12H	12.79	13.33	13.89	14.41	15.90	17.09	17.63	18.19	18.71	20.21
4H	2H	13.08	13.73	14.17	14.80	16.26	15.30	15.95	16.39	17.02	18.48
	3H	14.10	14.64	15.19	15.73	17.21	16.81	17.34	17.90	18.44	19.92
	4H	14.37	14.86	15.47	15.95	17.45	17.33	17.83	18.43	18.92	20.41
	6H	14.49	14.91	15.59	16.02	17.51	17.70	18.12	18.80	19.23	20.72
	8H	14.49	14.89	15.60	15.99	17.50	17.81	18.20	18.91	19.30	20.81
	12H	14.45	14.81	15.58	15.93	17.44	17.86	18.22	18.98	19.34	20.85
8H	4H	14.82	15.21	15.92	16.32	17.82	17.45	17.84	18.55	18.95	20.45
	6H	15.08	15.40	16.20	16.55	18.05	17.89	18.21	19.01	19.36	20.86
	8H	15.12	15.40	16.25	16.53	18.05	18.04	18.33	19.17	19.45	20.98
	12H	15.10	15.35	16.23	16.47	18.03	18.14	18.39	19.28	19.51	21.07
12H	4H	14.82	15.18	15.94	16.30	17.81	17.41	17.77	18.53	18.88	20.39
	6H	15.14	15.42	16.27	16.55	18.07	17.88	18.17	19.02	19.30	20.82
	8H	15.20	15.45	16.34	16.57	18.13	18.04	18.29	19.18	19.42	20.98