

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: P936056

Luminaire Tested: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936056
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-12-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

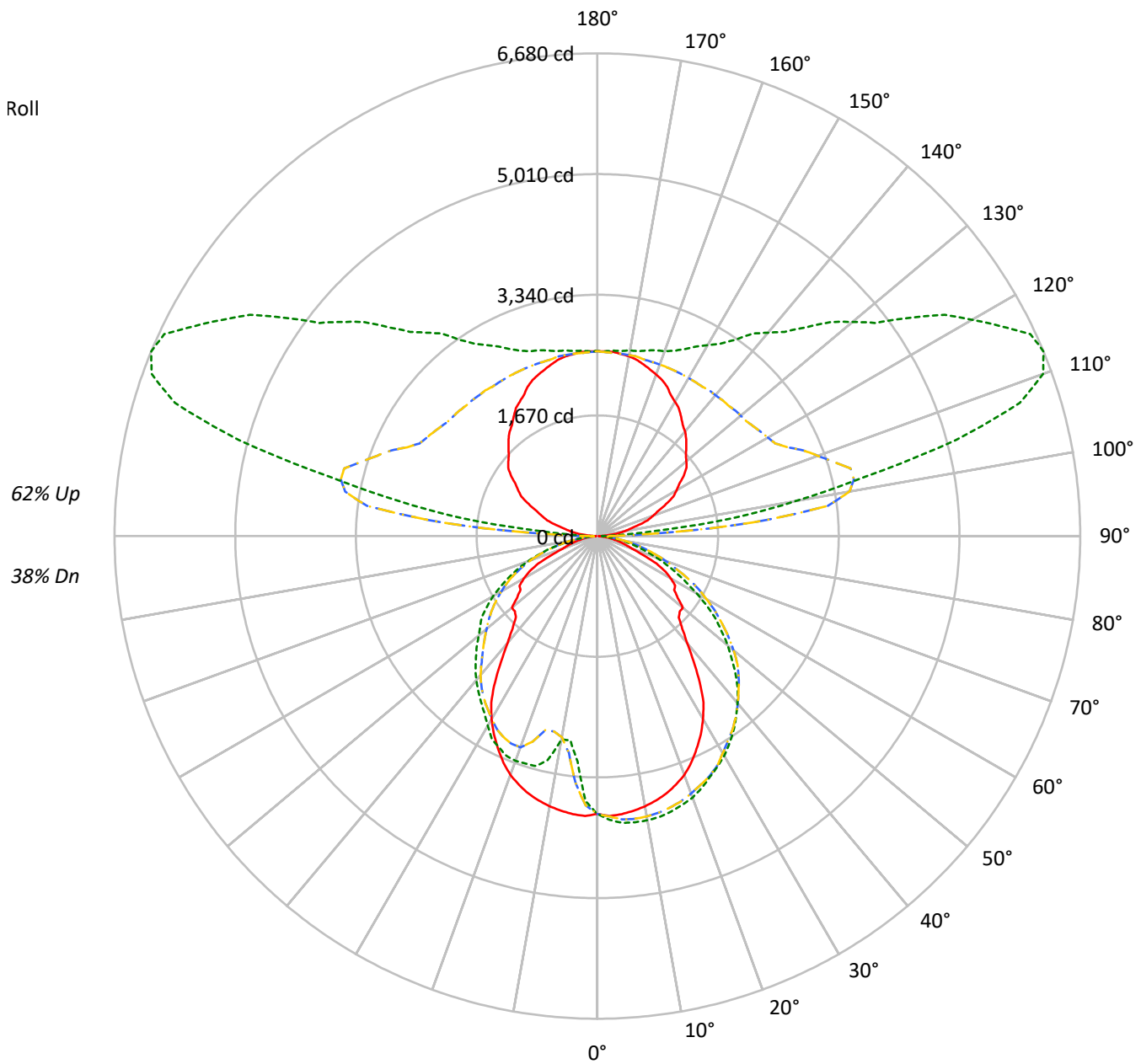
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26564.5 lumens
Efficiency: N/A
Efficacy: 122.3 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-12-5000K

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°	11892	11892	11892	11892
5°	11985	12005	11985	9439
10°	11910	11825	11910	8454
15°	11785	11569	11785	9660
20°	11543	11266	11543	9681
25°	11043	10823	11043	9475
30°	10395	10455	10395	9025
35°	9272	9990	9272	8530
40°	7730	9443	7730	8156
45°	6911	8803	6911	7726
50°	7349	8039	7349	7295
55°	6920	7216	6920	7044
60°	7143	6128	7143	6452
65°	6486	5066	6486	5663
70°	4502	4037	4502	4747
75°	3963	2984	3963	3574
80°	3216	1973	3216	2148
85°	1886	1045	1886	888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10586 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	1.3
10°-20°	985.4	3.7
20°-30°	1523.3	5.7
30°-40°	1818.4	6.8
40°-50°	1829.1	6.9
50°-60°	1591.5	6.0
60°-70°	1128.4	4.2
70°-80°	597.0	2.2
80°-90°	158.4	0.6
90°-100°	1247.1	4.7
100°-110°	3278.8	12.3
110°-120°	3399.8	12.8
120°-130°	2727.0	10.3
130°-140°	2139.7	8.1
140°-150°	1642.3	6.2
150°-160°	1182.8	4.5
160°-170°	723.7	2.7
170°-180°	244.5	0.9
0°-30°	2855.7	10.8
0°-40°	4674.2	17.6
0°-60°	8094.8	30.5
0°-90°	9978.7	37.6
90°-120°	7925.7	29.8
90°-150°	14434.9	54.3
90°-180°	16586.0	62.4
0°-180°	26564.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3845	3845	3845	3845	3845	
5°	3863	3983	3863	3132	3863	366
15°	3688	3947	3688	3296	3688	1038
25°	3248	3681	3248	3223	3248	1491
35°	2470	3285	2470	2804	2470	1528
45°	1593	2706	1593	2375	1593	1276
55°	1298	1997	1298	1950	1298	1193
65°	902	1204	902	1346	902	862
75°	342	571	342	684	342	359
85°	58	146	58	124	58	79
90°	17	65	17	65	17	17
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°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3877.5	3877.5	3899.4	3906.6	3906.6	3895.7	3884.8	3895.7	3928.5	3939.4	3935.7
5°	3863.0	3892.1	3932.1	3939.4	3946.6	3943.1	3935.7	3943.1	3979.4	3986.7	3990.3
7.5°	3833.9	3888.5	3939.4	3950.3	3961.2	3950.3	3946.6	3954.0	3990.3	3997.6	3997.6
10°	3797.5	3874.0	3932.1	3939.4	3950.3	3939.4	3939.4	3954.0	3990.3	3997.6	4001.2
12.5°	3746.6	3852.1	3906.6	3914.0	3928.5	3924.8	3921.2	3935.7	3972.2	3979.4	3979.4
15°	3688.4	3812.1	3863.0	3870.3	3895.7	3888.5	3888.5	3903.0	3943.1	3954.0	3950.3
17.5°	3608.4	3761.2	3819.4	3830.3	3848.4	3844.8	3848.4	3863.0	3899.4	3906.6	3910.3
20°	3517.4	3692.1	3761.2	3772.1	3790.3	3790.3	3790.3	3808.4	3844.8	3859.4	3859.4
22.5°	3393.7	3619.3	3692.1	3699.3	3721.2	3721.2	3728.4	3753.8	3786.6	3790.3	3790.3
25°	3248.3	3539.3	3601.1	3623.0	3644.7	3655.6	3666.6	3681.1	3692.1	3688.4	3692.1
27.5°	3095.5	3437.4	3517.4	3532.0	3561.1	3572.0	3586.5	3590.2	3593.8	3604.7	3597.5
30°	2924.5	3295.5	3415.6	3430.2	3477.4	3484.7	3470.2	3477.4	3495.6	3502.9	3510.2
32.5°	2731.7	3084.6	3310.1	3342.8	3386.5	3364.6	3361.1	3372.0	3401.1	3401.1	3408.3
35°	2469.9	2920.9	3211.9	3241.0	3273.7	3248.3	3262.8	3266.4	3284.6	3295.5	3292.0
37.5°	2182.5	2779.1	3110.1	3131.9	3157.3	3124.6	3146.4	3157.3	3171.9	3164.6	3164.6
40°	1927.9	2557.2	2990.0	3004.5	3026.4	3001.0	3022.7	3030.0	3037.3	3030.0	3026.4
42.5°	1738.8	2313.4	2862.7	2880.9	2866.3	2884.5	2891.7	2906.3	2895.4	2880.9	2880.9
45°	1593.2	2248.0	2724.5	2746.3	2724.5	2753.5	2764.5	2764.5	2731.7	2724.5	2720.9
47.5°	1545.9	2117.0	2586.2	2586.2	2575.3	2611.7	2629.9	2604.4	2571.7	2560.8	2560.8
50°	1542.3	1971.5	2397.1	2382.5	2433.5	2477.1	2459.0	2433.5	2408.0	2368.0	2368.0
52.5°	1400.4	1793.3	2153.4	2208.0	2288.0	2313.4	2284.3	2258.9	2215.2	2197.1	2182.5
55°	1298.5	1607.8	1931.5	2040.6	2124.3	2157.0	2102.4	2077.0	2011.5	2000.6	1993.3
57.5°	1276.8	1338.5	1727.8	1866.0	1967.9	1964.2	1931.5	1884.2	1829.6	1818.8	1815.1
60°	1171.3	967.5	1509.5	1673.2	1778.8	1767.8	1738.8	1695.1	1644.1	1636.9	1629.6
62.5°	1062.1	702.0	1262.2	1447.8	1596.9	1593.2	1567.8	1502.3	1465.9	1447.8	1433.2
65°	902.1	589.3	898.4	1204.0	1418.6	1425.9	1371.3	1324.1	1284.0	1262.2	1258.5
67.5°	687.4	480.1	607.4	1004.0	1247.7	1240.4	1171.3	1149.4	1098.5	1087.6	1065.8
70°	509.2	320.1	422.0	814.8	1080.3	1062.1	1007.5	982.1	934.9	909.3	894.8
72.5°	422.0	258.2	309.2	632.9	909.3	887.5	840.2	811.2	771.1	749.3	734.8
75°	341.9	272.8	236.4	469.2	738.4	723.9	680.2	651.1	618.3	589.3	592.9
77.5°	251.0	254.7	189.1	345.6	585.7	563.8	538.3	502.0	487.4	458.3	458.3
80°	189.1	200.1	141.9	236.4	422.0	422.0	400.1	374.7	349.2	334.7	334.7
82.5°	127.3	127.3	105.4	149.1	287.3	276.4	261.9	254.7	240.1	232.8	232.8
85°	58.2	72.8	65.4	90.9	156.4	163.7	163.7	156.4	152.8	145.5	149.1
87.5°	18.2	32.8	40.0	50.9	80.0	83.7	87.3	87.3	87.3	90.9	90.9
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°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3943.1	3932.1	3943.1	3935.7	3939.4	3928.5	3895.7	3884.8	3895.7	3906.6	3906.6
5°	3990.3	3983.1	3990.3	3990.3	3986.7	3979.4	3943.1	3935.7	3943.1	3946.6	3939.4
7.5°	4004.8	3994.0	4004.8	3997.6	3997.6	3990.3	3954.0	3946.6	3950.3	3961.2	3950.3
10°	4004.8	3994.0	4004.8	4001.2	3997.6	3990.3	3954.0	3939.4	3939.4	3950.3	3939.4
12.5°	3986.7	3979.4	3986.7	3979.4	3979.4	3972.2	3935.7	3921.2	3924.8	3928.5	3914.0
15°	3957.6	3946.6	3957.6	3950.3	3954.0	3943.1	3903.0	3888.5	3888.5	3895.7	3870.3
17.5°	3914.0	3899.4	3914.0	3910.3	3906.6	3899.4	3863.0	3848.4	3844.8	3848.4	3830.3
20°	3863.0	3852.1	3863.0	3859.4	3859.4	3844.8	3808.4	3790.3	3790.3	3790.3	3772.1
22.5°	3783.0	3772.1	3783.0	3790.3	3790.3	3786.6	3753.8	3728.4	3721.2	3721.2	3699.3
25°	3692.1	3681.1	3692.1	3692.1	3688.4	3692.1	3681.1	3666.6	3655.6	3644.7	3623.0
27.5°	3604.7	3597.5	3604.7	3597.5	3604.7	3593.8	3590.2	3586.5	3572.0	3561.1	3532.0
30°	3517.4	3510.2	3517.4	3510.2	3502.9	3495.6	3477.4	3470.2	3484.7	3477.4	3430.2
32.5°	3408.3	3401.1	3408.3	3408.3	3401.1	3401.1	3372.0	3361.1	3364.6	3386.5	3342.8
35°	3295.5	3284.6	3295.5	3292.0	3295.5	3284.6	3266.4	3262.8	3248.3	3273.7	3241.0
37.5°	3164.6	3153.7	3164.6	3164.6	3164.6	3171.9	3157.3	3146.4	3124.6	3157.3	3131.9
40°	3030.0	3015.5	3030.0	3026.4	3030.0	3037.3	3030.0	3022.7	3001.0	3026.4	3004.5
42.5°	2877.2	2873.6	2877.2	2880.9	2880.9	2895.4	2906.3	2891.7	2884.5	2866.3	2880.9
45°	2713.5	2706.3	2713.5	2720.9	2724.5	2731.7	2764.5	2764.5	2753.5	2724.5	2746.3
47.5°	2539.0	2520.8	2539.0	2560.8	2560.8	2571.7	2604.4	2629.9	2611.7	2575.3	2586.2
50°	2353.4	2357.1	2353.4	2368.0	2368.0	2408.0	2433.5	2459.0	2477.1	2433.5	2382.5
52.5°	2171.5	2168.0	2171.5	2182.5	2197.1	2215.2	2258.9	2284.3	2313.4	2288.0	2208.0
55°	1989.7	1997.0	1989.7	1993.3	2000.6	2011.5	2077.0	2102.4	2157.0	2124.3	2040.6
57.5°	1807.9	1796.9	1807.9	1815.1	1818.8	1829.6	1884.2	1931.5	1964.2	1967.9	1866.0
60°	1596.9	1582.3	1596.9	1629.6	1636.9	1644.1	1695.1	1738.8	1767.8	1778.8	1673.2
62.5°	1411.3	1385.9	1411.3	1433.2	1447.8	1465.9	1502.3	1567.8	1593.2	1596.9	1447.8
65°	1214.9	1204.0	1214.9	1258.5	1262.2	1284.0	1324.1	1371.3	1425.9	1418.6	1204.0
67.5°	1036.7	1036.7	1036.7	1065.8	1087.6	1098.5	1149.4	1171.3	1240.4	1247.7	1004.0
70°	873.0	869.3	873.0	894.8	909.3	934.9	982.1	1007.5	1062.1	1080.3	814.8
72.5°	716.6	713.0	716.6	734.8	749.3	771.1	811.2	840.2	887.5	909.3	632.9
75°	578.3	571.1	578.3	592.9	589.3	618.3	651.1	680.2	723.9	738.4	469.2
77.5°	443.8	443.8	443.8	458.3	458.3	487.4	502.0	538.3	563.8	585.7	345.6
80°	331.0	327.3	331.0	334.7	334.7	349.2	374.7	400.1	422.0	422.0	236.4
82.5°	232.8	225.5	232.8	232.8	232.8	240.1	254.7	261.9	276.4	287.3	149.1
85°	145.5	145.5	145.5	149.1	145.5	152.8	156.4	163.7	163.7	156.4	90.9
87.5°	94.6	90.9	94.6	90.9	90.9	87.3	87.3	87.3	83.7	80.0	50.9
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



TEST NUMBER: P936056

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-5000K

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°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3899.4	3877.5	3877.5	3841.2	3826.6	3815.7	3797.5	3743.0	3728.4	3713.8	3735.7
5°	3932.1	3892.1	3863.0	3797.5	3743.0	3721.2	3652.1	3521.1	3433.7	3368.3	3332.0
7.5°	3939.4	3888.5	3833.9	3732.1	3601.1	3542.9	3332.0	3091.9	3026.4	2968.2	2931.8
10°	3932.1	3874.0	3797.5	3644.7	3335.5	3233.7	3022.7	2866.3	2826.3	2815.4	2826.3
12.5°	3906.6	3852.1	3746.6	3492.0	3059.1	2990.0	2866.3	2775.4	2768.1	2786.3	2884.5
15°	3863.0	3812.1	3688.4	3288.3	2906.3	2855.4	2768.1	2735.4	2775.4	2902.7	3197.3
17.5°	3819.4	3761.2	3608.4	3088.2	2790.0	2753.5	2691.7	2757.2	2982.7	3153.7	3251.9
20°	3761.2	3692.1	3517.4	2942.7	2706.3	2673.5	2644.4	2939.1	3110.1	3171.9	3226.4
22.5°	3692.1	3619.3	3393.7	2840.9	2619.0	2593.5	2611.7	3041.0	3110.1	3153.7	3201.0
25°	3601.1	3539.3	3248.3	2760.9	2549.9	2520.8	2589.9	3030.0	3070.1	3081.0	3175.5
27.5°	3517.4	3437.4	3095.5	2688.1	2466.2	2455.3	2608.1	2982.7	3011.9	3022.7	3124.6
30°	3415.6	3295.5	2924.5	2611.7	2378.9	2375.3	2611.7	2924.5	2917.3	2946.4	3048.2
32.5°	3310.1	3084.6	2731.7	2517.1	2295.2	2291.6	2586.2	2837.2	2830.0	2870.0	2946.4
35°	3211.9	2920.9	2469.9	2408.0	2189.8	2193.4	2524.4	2735.4	2739.0	2775.4	2822.6
37.5°	3110.1	2779.1	2182.5	2288.0	2087.9	2087.9	2440.7	2640.9	2633.5	2644.4	2710.0
40°	2990.0	2557.2	1927.9	2131.5	1993.3	1982.4	2338.9	2539.0	2513.5	2509.9	2600.8
42.5°	2862.7	2313.4	1738.8	1924.2	1884.2	1869.6	2215.2	2415.3	2368.0	2378.9	2495.3
45°	2724.5	2248.0	1593.2	1626.0	1771.4	1760.5	2080.6	2273.4	2240.6	2269.8	2389.9
47.5°	2586.2	2117.0	1545.9	1349.5	1651.4	1647.8	1931.5	2135.2	2117.0	2146.1	2273.4
50°	2397.1	1971.5	1542.3	1156.8	1516.9	1531.4	1753.3	2000.6	2000.6	2026.1	2160.6
52.5°	2153.4	1793.3	1400.4	1047.5	1360.4	1404.1	1596.9	1884.2	1891.5	1917.0	2037.0
55°	1931.5	1607.8	1298.5	963.9	1174.9	1269.4	1444.1	1764.2	1778.8	1804.2	1913.3
57.5°	1727.8	1338.5	1276.8	865.8	1004.0	1094.9	1309.5	1647.8	1655.1	1676.9	1782.3
60°	1509.5	967.5	1171.3	760.2	854.8	923.9	1185.8	1509.5	1535.0	1549.5	1640.5
62.5°	1262.2	702.0	1062.1	687.4	782.1	796.7	1084.0	1378.6	1411.3	1422.2	1476.8
65°	898.4	589.3	902.1	625.7	705.7	709.3	974.9	1244.0	1273.1	1291.3	1331.3
67.5°	607.4	480.1	687.4	567.4	647.4	651.1	869.3	1087.6	1127.6	1142.2	1167.7
70°	422.0	320.1	509.2	505.6	582.0	589.3	756.6	945.8	982.1	993.0	1007.5
72.5°	309.2	258.2	422.0	454.7	512.9	520.1	640.2	785.7	822.1	833.0	840.2
75°	236.4	272.8	341.9	396.4	436.5	440.1	523.8	640.2	665.7	672.9	676.5
77.5°	189.1	254.7	251.0	320.1	356.4	349.2	411.0	494.7	516.5	516.5	516.5
80°	141.9	200.1	189.1	229.1	261.9	254.7	294.7	352.9	360.1	367.4	363.8
82.5°	105.4	127.3	127.3	145.5	174.6	167.3	196.4	229.1	229.1	229.1	236.4
85°	65.4	72.8	58.2	76.4	98.2	94.6	109.1	123.7	127.3	127.3	120.0
87.5°	40.0	32.8	18.2	29.1	43.7	43.7	50.9	54.6	50.9	50.9	50.9
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: P936056

CATALOG NUMBER: SQ4-FA-150U-100D-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: P936056

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3710.2	3699.3	3713.8	3673.8	3713.8	3699.3	3710.2	3735.7	3713.8	3728.4	3743.0
5°	3255.5	3237.4	3179.2	3131.9	3179.2	3237.4	3255.5	3332.0	3368.3	3433.7	3521.1
7.5°	2910.0	2895.4	2880.9	2851.7	2880.9	2895.4	2910.0	2931.8	2968.2	3026.4	3091.9
10°	2833.6	2837.2	2859.1	2855.4	2859.1	2837.2	2833.6	2826.3	2815.4	2826.3	2866.3
12.5°	3030.0	3062.7	3182.7	3175.5	3182.7	3062.7	3030.0	2884.5	2786.3	2768.1	2775.4
15°	3255.5	3266.4	3292.0	3295.5	3292.0	3266.4	3255.5	3197.3	2902.7	2775.4	2735.4
17.5°	3277.4	3281.0	3299.2	3299.2	3299.2	3281.0	3277.4	3251.9	3153.7	2982.7	2757.2
20°	3259.2	3266.4	3302.8	3310.1	3302.8	3266.4	3259.2	3226.4	3171.9	3110.1	2939.1
22.5°	3251.9	3266.4	3295.5	3292.0	3295.5	3266.4	3251.9	3201.0	3153.7	3110.1	3041.0
25°	3215.5	3215.5	3219.2	3222.8	3219.2	3215.5	3215.5	3175.5	3081.0	3070.1	3030.0
27.5°	3139.2	3146.4	3168.3	3164.6	3168.3	3146.4	3139.2	3124.6	3022.7	3011.9	2982.7
30°	3070.1	3062.7	3044.5	3030.0	3044.5	3062.7	3070.1	3048.2	2946.4	2917.3	2924.5
32.5°	2953.6	2935.4	2917.3	2906.3	2917.3	2935.4	2953.6	2946.4	2870.0	2830.0	2837.2
35°	2815.4	2819.1	2815.4	2804.5	2815.4	2819.1	2815.4	2822.6	2775.4	2739.0	2735.4
37.5°	2717.2	2724.5	2720.9	2706.3	2720.9	2724.5	2717.2	2710.0	2644.4	2633.5	2640.9
40°	2615.3	2619.0	2615.3	2604.4	2615.3	2619.0	2615.3	2600.8	2509.9	2513.5	2539.0
42.5°	2517.1	2513.5	2502.6	2495.3	2502.6	2513.5	2517.1	2495.3	2378.9	2368.0	2415.3
45°	2404.4	2408.0	2386.2	2375.3	2386.2	2408.0	2404.4	2389.9	2269.8	2240.6	2273.4
47.5°	2291.6	2291.6	2273.4	2262.5	2273.4	2291.6	2291.6	2273.4	2146.1	2117.0	2135.2
50°	2171.5	2168.0	2142.5	2138.9	2142.5	2168.0	2171.5	2160.6	2026.1	2000.6	2000.6
52.5°	2033.3	2033.3	2037.0	2044.3	2037.0	2033.3	2033.3	2037.0	1917.0	1891.5	1884.2
55°	1913.3	1917.0	1942.4	1949.6	1942.4	1917.0	1913.3	1913.3	1804.2	1778.8	1764.2
57.5°	1789.6	1789.6	1807.9	1807.9	1807.9	1789.6	1789.6	1782.3	1676.9	1655.1	1647.8
60°	1647.8	1655.1	1669.6	1666.0	1669.6	1655.1	1647.8	1640.5	1549.5	1535.0	1509.5
62.5°	1498.6	1505.9	1509.5	1502.3	1509.5	1505.9	1498.6	1476.8	1422.2	1411.3	1378.6
65°	1342.2	1349.5	1353.1	1345.9	1353.1	1349.5	1342.2	1331.3	1291.3	1273.1	1244.0
67.5°	1182.2	1178.5	1174.9	1189.4	1174.9	1178.5	1182.2	1167.7	1142.2	1127.6	1087.6
70°	1018.5	1018.5	1014.9	1022.1	1014.9	1018.5	1018.5	1007.5	993.0	982.1	945.8
72.5°	843.9	840.2	854.8	843.9	854.8	840.2	843.9	840.2	833.0	822.1	785.7
75°	672.9	680.2	672.9	683.9	672.9	680.2	672.9	676.5	672.9	665.7	640.2
77.5°	512.9	520.1	512.9	512.9	512.9	520.1	512.9	516.5	516.5	516.5	494.7
80°	363.8	360.1	360.1	356.4	360.1	360.1	363.8	363.8	367.4	360.1	352.9
82.5°	232.8	229.1	229.1	236.4	229.1	229.1	232.8	236.4	229.1	229.1	229.1
85°	127.3	131.0	123.7	123.7	123.7	131.0	127.3	120.0	127.3	127.3	123.7
87.5°	47.3	43.7	43.7	43.7	43.7	43.7	47.3	50.9	50.9	50.9	54.6
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



TEST NUMBER: P936056

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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



TEST NUMBER: P936056

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3797.5	3815.7	3826.6	3841.2	3877.5
5°	3652.1	3721.2	3743.0	3797.5	3863.0
7.5°	3332.0	3542.9	3601.1	3732.1	3833.9
10°	3022.7	3233.7	3335.5	3644.7	3797.5
12.5°	2866.3	2990.0	3059.1	3492.0	3746.6
15°	2768.1	2855.4	2906.3	3288.3	3688.4
17.5°	2691.7	2753.5	2790.0	3088.2	3608.4
20°	2644.4	2673.5	2706.3	2942.7	3517.4
22.5°	2611.7	2593.5	2619.0	2840.9	3393.7
25°	2589.9	2520.8	2549.9	2760.9	3248.3
27.5°	2608.1	2455.3	2466.2	2688.1	3095.5
30°	2611.7	2375.3	2378.9	2611.7	2924.5
32.5°	2586.2	2291.6	2295.2	2517.1	2731.7
35°	2524.4	2193.4	2189.8	2408.0	2469.9
37.5°	2440.7	2087.9	2087.9	2288.0	2182.5
40°	2338.9	1982.4	1993.3	2131.5	1927.9
42.5°	2215.2	1869.6	1884.2	1924.2	1738.8
45°	2080.6	1760.5	1771.4	1626.0	1593.2
47.5°	1931.5	1647.8	1651.4	1349.5	1545.9
50°	1753.3	1531.4	1516.9	1156.8	1542.3
52.5°	1596.9	1404.1	1360.4	1047.5	1400.4
55°	1444.1	1269.4	1174.9	963.9	1298.5
57.5°	1309.5	1094.9	1004.0	865.8	1276.8
60°	1185.8	923.9	854.8	760.2	1171.3
62.5°	1084.0	796.7	782.1	687.4	1062.1
65°	974.9	709.3	705.7	625.7	902.1
67.5°	869.3	651.1	647.4	567.4	687.4
70°	756.6	589.3	582.0	505.6	509.2
72.5°	640.2	520.1	512.9	454.7	422.0
75°	523.8	440.1	436.5	396.4	341.9
77.5°	411.0	349.2	356.4	320.1	251.0
80°	294.7	254.7	261.9	229.1	189.1
82.5°	196.4	167.3	174.6	145.5	127.3
85°	109.1	94.6	98.2	76.4	58.2
87.5°	50.9	43.7	43.7	29.1	18.2
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: P936056

CATALOG NUMBER: SQ4-FA-150U-100D-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



TEST NUMBER: P936056
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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	12.14	12.90	13.20	13.96	15.40	14.99	15.75	16.05	16.81	18.25
	3H	12.61	13.29	13.68	14.36	15.82	16.34	17.02	17.40	18.09	19.54
	4H	12.80	13.44	13.87	14.51	15.98	16.78	17.43	17.86	18.50	19.96
	6H	12.91	13.50	14.00	14.58	16.05	17.07	17.66	18.15	18.73	20.21
	8H	12.91	13.47	14.00	14.56	16.03	17.14	17.71	18.23	18.80	20.27
	12H	12.88	13.41	13.97	14.50	15.99	17.18	17.72	18.28	18.80	20.29
4H	2H	13.17	13.81	14.25	14.88	16.35	15.39	16.03	16.47	17.10	18.57
	3H	14.18	14.72	15.28	15.82	17.30	16.89	17.43	17.98	18.53	20.00
	4H	14.46	14.95	15.55	16.04	17.54	17.42	17.91	18.52	19.00	20.50
	6H	14.57	15.00	15.68	16.11	17.60	17.78	18.21	18.89	19.32	20.81
	8H	14.58	14.97	15.68	16.08	17.58	17.89	18.29	19.00	19.39	20.90
	12H	14.54	14.90	15.66	16.01	17.53	17.95	18.30	19.07	19.42	20.93
8H	4H	14.90	15.30	16.01	16.40	17.91	17.54	17.93	18.64	19.03	20.54
	6H	15.16	15.49	16.29	16.63	18.14	17.97	18.30	19.10	19.44	20.95
	8H	15.20	15.49	16.34	16.62	18.14	18.13	18.41	19.26	19.54	21.06
	12H	15.18	15.43	16.32	16.56	18.12	18.23	18.48	19.36	19.60	21.16
12H	4H	14.91	15.26	16.03	16.38	17.89	17.49	17.85	18.62	18.97	20.48
	6H	15.22	15.51	16.36	16.64	18.16	17.97	18.25	19.10	19.38	20.90
	8H	15.28	15.54	16.42	16.66	18.22	18.13	18.38	19.27	19.50	21.06