

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: P936053

Luminaire Tested: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936053
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-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

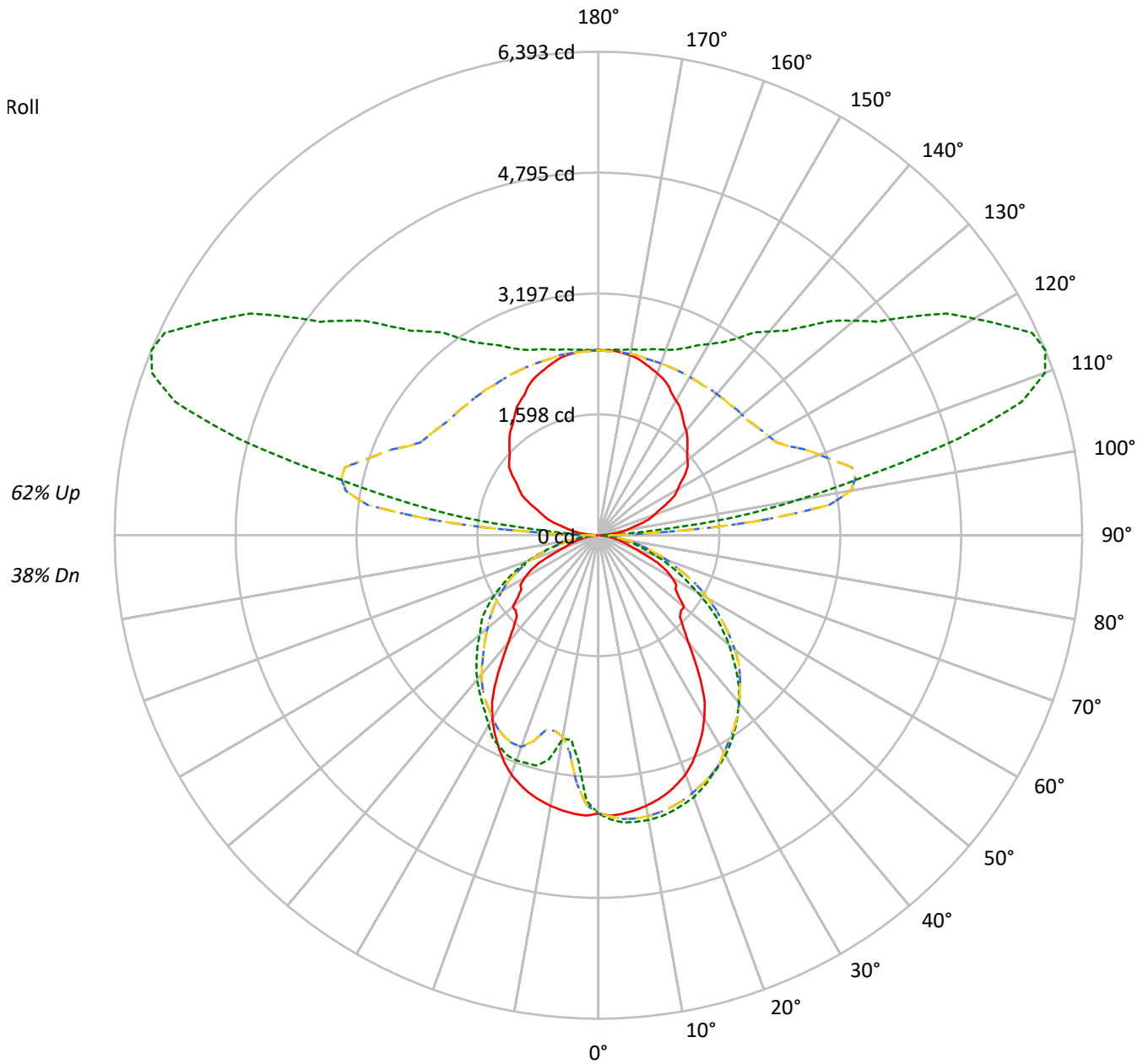
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25424.1 lumens
Efficiency: N/A
Efficacy: 117.1 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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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°	11382	11382	11382	11382
5°	11471	11490	11471	9034
10°	11398	11318	11398	8091
15°	11279	11072	11279	9246
20°	11047	10782	11047	9265
25°	10569	10358	10569	9068
30°	9949	10007	9949	8638
35°	8874	9561	8874	8164
40°	7398	9038	7398	7806
45°	6615	8425	6615	7394
50°	7033	7694	7033	6982
55°	6623	6906	6623	6742
60°	6836	5865	6836	6175
65°	6208	4848	6208	5420
70°	4309	3864	4309	4543
75°	3793	2856	3793	3420
80°	3079	1888	3079	2056
85°	1805	1000	1805	850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10132 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.2	1.3
10°-20°	943.1	3.7
20°-30°	1457.9	5.7
30°-40°	1740.4	6.8
40°-50°	1750.6	6.9
50°-60°	1523.2	6.0
60°-70°	1080.0	4.2
70°-80°	571.4	2.2
80°-90°	151.6	0.6
90°-100°	1193.6	4.7
100°-110°	3138.1	12.3
110°-120°	3253.8	12.8
120°-130°	2610.0	10.3
130°-140°	2047.9	8.1
140°-150°	1571.8	6.2
150°-160°	1132.0	4.5
160°-170°	692.6	2.7
170°-180°	234.0	0.9
0°-30°	2733.1	10.8
0°-40°	4473.5	17.6
0°-60°	7747.3	30.5
0°-90°	9550.3	37.6
90°-120°	7585.5	29.8
90°-150°	13815.2	54.3
90°-180°	15874.0	62.4
0°-180°	25424.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3680	3680	3680	3680	3680	
5°	3697	3812	3697	2998	3697	351
15°	3530	3777	3530	3154	3530	993
25°	3109	3523	3109	3084	3109	1427
35°	2364	3144	2364	2684	2364	1462
45°	1525	2590	1525	2273	1525	1221
55°	1243	1911	1243	1866	1243	1142
65°	863	1152	863	1288	863	825
75°	327	547	327	654	327	344
85°	56	139	56	118	56	75
90°	16	62	16	62	16	16
95°	158	721	158	721	158	175
105°	565	4914	565	4914	565	599
115°	1004	6327	1004	6327	1004	992
125°	1397	5039	1397	5039	1397	1240
135°	1665	3910	1665	3910	1665	1288
145°	1931	3172	1931	3172	1931	1210
155°	2182	2731	2182	2731	2182	1003
165°	2355	2544	2355	2544	2355	665
175°	2449	2465	2449	2465	2449	232
180°	2449	2449	2449	2449	2449	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3711.1	3711.1	3732.0	3738.9	3738.9	3728.5	3718.0	3728.5	3759.8	3770.3	3766.8
5°	3697.2	3725.1	3763.3	3770.3	3777.2	3773.8	3766.8	3773.8	3808.6	3815.5	3819.0
7.5°	3669.3	3721.5	3770.3	3780.7	3791.2	3780.7	3777.2	3784.2	3819.0	3826.0	3826.0
10°	3634.5	3707.7	3763.3	3770.3	3780.7	3770.3	3770.3	3784.2	3819.0	3826.0	3829.5
12.5°	3585.8	3686.8	3738.9	3746.0	3759.8	3756.3	3752.9	3766.8	3801.6	3808.6	3808.6
15°	3530.1	3648.5	3697.2	3704.1	3728.5	3721.5	3721.5	3735.5	3773.8	3784.2	3780.7
17.5°	3453.5	3599.7	3655.4	3665.9	3683.2	3679.7	3683.2	3697.2	3732.0	3738.9	3742.4
20°	3366.4	3533.6	3599.7	3610.2	3627.6	3627.6	3627.6	3644.9	3679.7	3693.7	3693.7
22.5°	3248.0	3463.9	3533.6	3540.5	3561.4	3561.4	3568.4	3592.7	3624.0	3627.6	3627.6
25°	3108.8	3387.3	3446.5	3467.4	3488.3	3498.7	3509.2	3523.1	3533.6	3530.1	3533.6
27.5°	2962.6	3289.9	3366.4	3380.4	3408.2	3418.7	3432.6	3436.1	3439.5	3450.0	3443.0
30°	2799.0	3154.1	3268.9	3282.9	3328.1	3335.1	3321.2	3328.1	3345.5	3352.6	3359.5
32.5°	2614.4	2952.1	3168.0	3199.3	3241.1	3220.2	3216.8	3227.2	3255.1	3255.1	3262.0
35°	2363.9	2795.5	3074.1	3101.9	3133.2	3108.8	3122.7	3126.2	3143.6	3154.1	3150.6
37.5°	2088.8	2659.8	2976.6	2997.5	3021.8	2990.4	3011.3	3021.8	3035.8	3028.7	3028.7
40°	1845.1	2447.4	2861.7	2875.6	2896.5	2872.1	2892.9	2900.0	2906.9	2900.0	2896.5
42.5°	1664.1	2214.1	2739.8	2757.3	2743.3	2760.7	2767.6	2781.6	2771.1	2757.3	2757.3
45°	1524.8	2151.5	2607.5	2628.4	2607.5	2635.3	2645.8	2645.8	2614.4	2607.5	2604.1
47.5°	1479.6	2026.2	2475.2	2475.2	2464.8	2499.6	2517.0	2492.6	2461.3	2450.9	2450.9
50°	1476.1	1886.9	2294.2	2280.2	2329.0	2370.8	2353.4	2329.0	2304.7	2266.4	2266.4
52.5°	1340.3	1716.3	2060.9	2113.2	2189.8	2214.1	2186.3	2161.9	2120.1	2102.7	2088.8
55°	1242.8	1538.8	1848.6	1953.0	2033.1	2064.4	2012.2	1987.9	1925.1	1914.7	1907.8
57.5°	1222.0	1281.1	1653.7	1785.9	1883.4	1879.9	1848.6	1803.3	1751.1	1740.7	1737.2
60°	1121.0	926.0	1444.7	1601.4	1702.4	1692.0	1664.1	1622.3	1573.6	1566.6	1559.6
62.5°	1016.5	671.9	1208.0	1385.6	1528.3	1524.8	1500.5	1437.8	1403.0	1385.6	1371.6
65°	863.4	564.0	859.9	1152.3	1357.7	1364.7	1312.4	1267.2	1228.9	1208.0	1204.5
67.5°	657.9	459.5	581.3	960.9	1194.1	1187.1	1121.0	1100.1	1051.3	1040.9	1020.1
70°	487.4	306.4	403.8	779.8	1033.9	1016.5	964.3	940.0	894.7	870.3	856.4
72.5°	403.8	247.2	295.9	605.8	870.3	849.4	804.2	776.3	738.0	717.1	703.3
75°	327.3	261.1	226.3	449.1	706.7	692.8	651.0	623.2	591.8	564.0	567.5
77.5°	240.2	243.7	181.0	330.8	560.5	539.6	515.2	480.4	466.5	438.6	438.6
80°	181.0	191.5	135.8	226.3	403.8	403.8	382.9	358.6	334.2	320.3	320.3
82.5°	121.8	121.8	100.9	142.7	275.0	264.5	250.7	243.7	229.8	222.8	222.8
85°	55.7	69.6	62.6	87.0	149.7	156.7	156.7	149.7	146.2	139.2	142.7
87.5°	17.4	31.4	38.3	48.7	76.6	80.1	83.5	83.5	83.5	87.0	87.0
90°	16.4	29.6	42.8	46.0	72.3	107.3	124.9	111.0	83.3	62.4	62.4
92.5°	65.7	177.4	289.2	317.2	445.9	617.5	703.3	616.4	442.6	312.2	299.9
95°	157.7	362.2	566.8	617.9	1097.3	1736.4	2055.9	1834.6	1392.0	1060.0	1022.4
97.5°	272.8	453.2	633.6	678.8	1478.0	2543.6	3076.4	2936.6	2656.9	2447.0	2375.5
100°	361.5	525.1	688.8	729.7	1616.6	2799.1	3390.3	3400.5	3421.0	3436.4	3351.1
102.5°	437.1	589.8	742.4	780.6	1680.1	2879.4	3479.1	3657.3	4013.7	4281.1	4208.0
105°	565.4	694.6	823.9	856.3	1727.3	2888.6	3469.2	3868.7	4667.8	5267.1	5227.8
107.5°	696.8	817.3	937.8	968.0	1736.0	2760.0	3272.0	3829.3	4943.9	5779.8	5789.3
110°	785.6	894.4	1003.2	1030.4	1722.9	2646.1	3107.7	3730.8	4976.8	5911.3	5952.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	872.7	976.4	1080.1	1106.0	1723.4	2546.5	2958.1	3595.8	4871.1	5827.5	5890.3
115°	1004.2	1099.8	1195.5	1219.4	1739.3	2432.5	2779.0	3393.3	4621.8	5543.2	5630.3
117.5°	1134.0	1220.8	1307.8	1329.5	1771.5	2361.0	2655.7	3210.1	4318.9	5150.4	5247.1
120°	1209.5	1291.4	1373.1	1393.6	1797.9	2336.9	2606.4	3113.0	4126.0	4885.8	4979.7
122.5°	1283.5	1366.0	1448.6	1469.2	1835.7	2324.3	2568.7	3024.8	3937.1	4621.3	4713.8
125°	1396.9	1472.1	1547.4	1566.2	1886.7	2314.0	2527.6	2915.1	3690.0	4271.2	4356.5
127.5°	1488.9	1564.9	1640.8	1659.8	1937.5	2307.9	2493.1	2825.8	3491.2	3990.2	4062.1
130°	1538.3	1620.0	1701.8	1722.3	1974.8	2311.5	2479.9	2776.0	3368.5	3812.7	3879.2
132.5°	1589.2	1671.0	1752.7	1773.2	2004.9	2313.9	2468.4	2733.5	3263.9	3661.5	3721.1
135°	1664.7	1739.2	1813.8	1832.4	2037.8	2311.8	2448.7	2670.7	3114.8	3447.9	3499.2
137.5°	1742.0	1815.8	1889.6	1908.0	2087.1	2325.9	2445.4	2633.1	3008.5	3290.1	3332.1
140°	1806.1	1874.0	1942.0	1959.0	2117.2	2328.3	2433.9	2596.0	2920.4	3163.6	3202.8
142.5°	1855.4	1918.2	1981.0	1996.7	2142.4	2336.7	2433.9	2576.3	2861.2	3074.8	3108.7
145°	1931.0	1985.8	2040.6	2054.3	2175.3	2336.7	2417.4	2533.9	2766.9	2941.7	2967.3
147.5°	2006.6	2059.9	2113.2	2126.5	2223.5	2352.8	2417.4	2509.1	2692.4	2830.0	2851.1
150°	2055.9	2104.1	2152.4	2164.4	2248.7	2361.2	2417.4	2494.9	2649.7	2765.9	2783.0
152.5°	2106.9	2143.4	2179.9	2189.0	2265.1	2366.7	2417.4	2483.6	2615.8	2714.9	2727.9
155°	2182.5	2209.5	2236.5	2243.3	2301.3	2378.7	2417.4	2470.0	2575.3	2654.1	2662.7
157.5°	2238.4	2264.6	2290.9	2297.5	2337.4	2390.7	2417.4	2458.4	2540.1	2601.5	2607.6
160°	2276.1	2296.6	2317.0	2322.1	2353.9	2396.3	2417.4	2452.5	2522.6	2575.2	2578.7
162.5°	2313.9	2329.3	2344.5	2348.4	2371.4	2402.1	2417.4	2447.0	2506.2	2550.6	2553.8
165°	2355.0	2368.9	2382.7	2386.3	2396.6	2410.5	2417.4	2438.6	2480.9	2512.7	2516.2
167.5°	2392.8	2399.4	2405.9	2407.6	2416.4	2428.1	2433.9	2447.7	2475.5	2496.3	2497.8
170°	2417.4	2424.0	2430.6	2432.3	2432.8	2433.5	2433.9	2447.7	2475.5	2496.3	2496.3
172.5°	2430.6	2432.0	2433.5	2433.9	2433.9	2433.9	2433.9	2444.8	2466.8	2483.2	2481.9
175°	2448.7	2448.7	2448.7	2448.7	2443.8	2437.2	2433.9	2440.8	2454.7	2465.1	2465.1
177.5°	2448.7	2448.7	2448.7	2448.7	2444.8	2439.7	2437.2	2442.6	2453.6	2461.8	2460.3
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3773.8	3763.3	3773.8	3766.8	3770.3	3759.8	3728.5	3718.0	3728.5	3738.9	3738.9
5°	3819.0	3812.1	3819.0	3819.0	3815.5	3808.6	3773.8	3766.8	3773.8	3777.2	3770.3
7.5°	3832.9	3822.5	3832.9	3826.0	3826.0	3819.0	3784.2	3777.2	3780.7	3791.2	3780.7
10°	3832.9	3822.5	3832.9	3829.5	3826.0	3819.0	3784.2	3770.3	3770.3	3780.7	3770.3
12.5°	3815.5	3808.6	3815.5	3808.6	3808.6	3801.6	3766.8	3752.9	3756.3	3759.8	3746.0
15°	3787.7	3777.2	3787.7	3780.7	3784.2	3773.8	3735.5	3721.5	3721.5	3728.5	3704.1
17.5°	3746.0	3732.0	3746.0	3742.4	3738.9	3732.0	3697.2	3683.2	3679.7	3683.2	3665.9
20°	3697.2	3686.8	3697.2	3693.7	3693.7	3679.7	3644.9	3627.6	3627.6	3627.6	3610.2
22.5°	3620.6	3610.2	3620.6	3627.6	3627.6	3624.0	3592.7	3568.4	3561.4	3561.4	3540.5
25°	3533.6	3523.1	3533.6	3533.6	3530.1	3533.6	3523.1	3509.2	3498.7	3488.3	3467.4
27.5°	3450.0	3443.0	3450.0	3443.0	3450.0	3439.5	3436.1	3432.6	3418.7	3408.2	3380.4
30°	3366.4	3359.5	3366.4	3359.5	3352.6	3345.5	3328.1	3321.2	3335.1	3328.1	3282.9
32.5°	3262.0	3255.1	3262.0	3262.0	3255.1	3255.1	3227.2	3216.8	3220.2	3241.1	3199.3
35°	3154.1	3143.6	3154.1	3150.6	3154.1	3143.6	3126.2	3122.7	3108.8	3133.2	3101.9
37.5°	3028.7	3018.3	3028.7	3028.7	3028.7	3035.8	3021.8	3011.3	2990.4	3021.8	2997.5
40°	2900.0	2886.0	2900.0	2896.5	2900.0	2906.9	2900.0	2892.9	2872.1	2896.5	2875.6
42.5°	2753.7	2750.2	2753.7	2757.3	2757.3	2771.1	2781.6	2767.6	2760.7	2743.3	2757.3
45°	2597.0	2590.1	2597.0	2604.1	2607.5	2614.4	2645.8	2645.8	2635.3	2607.5	2628.4
47.5°	2430.0	2412.6	2430.0	2450.9	2450.9	2461.3	2492.6	2517.0	2499.6	2464.8	2475.2
50°	2252.4	2255.9	2252.4	2266.4	2266.4	2304.7	2329.0	2353.4	2370.8	2329.0	2280.2
52.5°	2078.3	2074.9	2078.3	2088.8	2102.7	2120.1	2161.9	2186.3	2214.1	2189.8	2113.2
55°	1904.2	1911.3	1904.2	1907.8	1914.7	1925.1	1987.9	2012.2	2064.4	2033.1	1953.0
57.5°	1730.3	1719.8	1730.3	1737.2	1740.7	1751.1	1803.3	1848.6	1879.9	1883.4	1785.9
60°	1528.3	1514.4	1528.3	1559.6	1566.6	1573.6	1622.3	1664.1	1692.0	1702.4	1601.4
62.5°	1350.7	1326.4	1350.7	1371.6	1385.6	1403.0	1437.8	1500.5	1524.8	1528.3	1385.6
65°	1162.8	1152.3	1162.8	1204.5	1208.0	1228.9	1267.2	1312.4	1364.7	1357.7	1152.3
67.5°	992.2	992.2	992.2	1020.1	1040.9	1051.3	1100.1	1121.0	1187.1	1194.1	960.9
70°	835.5	832.0	835.5	856.4	870.3	894.7	940.0	964.3	1016.5	1033.9	779.8
72.5°	685.9	682.4	685.9	703.3	717.1	738.0	776.3	804.2	849.4	870.3	605.8
75°	553.5	546.6	553.5	567.5	564.0	591.8	623.2	651.0	692.8	706.7	449.1
77.5°	424.7	424.7	424.7	438.6	438.6	466.5	480.4	515.2	539.6	560.5	330.8
80°	316.8	313.3	316.8	320.3	320.3	334.2	358.6	382.9	403.8	403.8	226.3
82.5°	222.8	215.8	222.8	222.8	222.8	229.8	243.7	250.7	264.5	275.0	142.7
85°	139.2	139.2	139.2	142.7	139.2	146.2	149.7	156.7	156.7	149.7	87.0
87.5°	90.6	87.0	90.6	87.0	87.0	83.5	83.5	83.5	80.1	76.6	48.7
90°	62.4	62.4	62.4	62.4	62.4	83.3	111.0	124.9	107.3	72.3	46.0
92.5°	250.1	200.5	250.1	299.9	312.2	442.6	616.4	703.3	617.5	445.9	317.2
95°	871.9	721.4	871.9	1022.4	1060.0	1392.0	1834.6	2055.9	1736.4	1097.3	617.9
97.5°	2089.1	1802.8	2089.1	2375.5	2447.0	2656.9	2936.6	3076.4	2543.6	1478.0	678.8
100°	3010.0	2668.9	3010.0	3351.1	3436.4	3421.0	3400.5	3390.3	2799.1	1616.6	729.7
102.5°	3915.9	3623.7	3915.9	4208.0	4281.1	4013.7	3657.3	3479.1	2879.4	1680.1	780.6
105°	5070.9	4913.8	5070.9	5227.8	5267.1	4667.8	3868.7	3469.2	2888.6	1727.3	856.3
107.5°	5827.4	5865.3	5827.4	5789.3	5779.8	4943.9	3829.3	3272.0	2760.0	1736.0	968.0
110°	6115.9	6279.5	6115.9	5952.2	5911.3	4976.8	3730.8	3107.7	2646.1	1722.9	1030.4



TEST NUMBER: P936053

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6141.6	6392.9	6141.6	5890.3	5827.5	4871.1	3595.8	2958.1	2546.5	1723.4	1106.0
115°	5978.7	6327.1	5978.7	5630.3	5543.2	4621.8	3393.3	2779.0	2432.5	1739.3	1219.4
117.5°	5633.4	6019.8	5633.4	5247.1	5150.4	4318.9	3210.1	2655.7	2361.0	1771.5	1329.5
120°	5355.1	5730.6	5355.1	4979.7	4885.8	4126.0	3113.0	2606.4	2336.9	1797.9	1393.6
122.5°	5084.2	5454.5	5084.2	4713.8	4621.3	3937.1	3024.8	2568.7	2324.3	1835.7	1469.2
125°	4697.6	5038.7	4697.6	4356.5	4271.2	3690.0	2915.1	2527.6	2314.0	1886.7	1566.2
127.5°	4350.0	4637.7	4350.0	4062.1	3990.2	3491.2	2825.8	2493.1	2307.9	1937.5	1659.8
130°	4145.1	4410.9	4145.1	3879.2	3812.7	3368.5	2776.0	2479.9	2311.5	1974.8	1722.3
132.5°	3959.1	4197.2	3959.1	3721.1	3661.5	3263.9	2733.5	2468.4	2313.9	2004.9	1773.2
135°	3704.4	3909.7	3704.4	3499.2	3447.9	3114.8	2670.7	2448.7	2311.8	2037.8	1832.4
137.5°	3500.1	3668.0	3500.1	3332.1	3290.1	3008.5	2633.1	2445.4	2325.9	2087.1	1908.0
140°	3359.9	3516.9	3359.9	3202.8	3163.6	2920.4	2596.0	2433.9	2328.3	2117.2	1959.0
142.5°	3243.7	3378.8	3243.7	3108.7	3074.8	2861.2	2576.3	2433.9	2336.7	2142.4	1996.7
145°	3069.6	3171.8	3069.6	2967.3	2941.7	2766.9	2533.9	2417.4	2336.7	2175.3	2054.3
147.5°	2935.9	3020.6	2935.9	2851.1	2830.0	2692.4	2509.1	2417.4	2352.8	2223.5	2126.5
150°	2851.7	2920.4	2851.7	2783.0	2765.9	2649.7	2494.9	2417.4	2361.2	2248.7	2164.4
152.5°	2779.7	2831.6	2779.7	2727.9	2714.9	2615.8	2483.6	2417.4	2366.7	2265.1	2189.0
155°	2697.0	2731.3	2697.0	2662.7	2654.1	2575.3	2470.0	2417.4	2378.7	2301.3	2243.3
157.5°	2631.7	2655.7	2631.7	2607.6	2601.5	2540.1	2458.4	2417.4	2390.7	2337.4	2297.5
160°	2592.6	2606.4	2592.6	2578.7	2575.2	2522.6	2452.5	2417.4	2396.3	2353.9	2322.1
162.5°	2567.0	2580.2	2567.0	2553.8	2550.6	2506.2	2447.0	2417.4	2402.1	2371.4	2348.4
165°	2530.1	2544.0	2530.1	2516.2	2512.7	2480.9	2438.6	2417.4	2410.5	2396.6	2386.3
167.5°	2503.6	2509.5	2503.6	2497.8	2496.3	2475.5	2447.7	2433.9	2428.1	2416.4	2407.6
170°	2496.3	2496.3	2496.3	2496.3	2496.3	2475.5	2447.7	2433.9	2433.5	2432.8	2432.3
172.5°	2476.8	2471.7	2476.8	2481.9	2483.2	2466.8	2444.8	2433.9	2433.9	2433.9	2433.9
175°	2465.1	2465.1	2465.1	2465.1	2465.1	2454.7	2440.8	2433.9	2437.2	2443.8	2448.7
177.5°	2454.5	2448.7	2454.5	2460.3	2461.8	2453.6	2442.6	2437.2	2439.7	2444.8	2448.7
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3732.0	3711.1	3711.1	3676.3	3662.3	3651.9	3634.5	3582.3	3568.4	3554.4	3575.3
5°	3763.3	3725.1	3697.2	3634.5	3582.3	3561.4	3495.3	3370.0	3286.3	3223.7	3188.9
7.5°	3770.3	3721.5	3669.3	3571.9	3446.5	3390.9	3188.9	2959.2	2896.5	2840.8	2805.9
10°	3763.3	3707.7	3634.5	3488.3	3192.4	3094.9	2892.9	2743.3	2705.0	2694.5	2705.0
12.5°	3738.9	3686.8	3585.8	3342.1	2927.8	2861.7	2743.3	2656.2	2649.3	2666.7	2760.7
15°	3697.2	3648.5	3530.1	3147.1	2781.6	2732.8	2649.3	2618.0	2656.2	2778.1	3060.1
17.5°	3655.4	3599.7	3453.5	2955.7	2670.2	2635.3	2576.1	2638.9	2854.7	3018.3	3112.3
20°	3599.7	3533.6	3366.4	2816.4	2590.1	2558.8	2530.9	2812.9	2976.6	3035.8	3087.9
22.5°	3533.6	3463.9	3248.0	2719.0	2506.6	2482.2	2499.6	2910.4	2976.6	3018.3	3063.6
25°	3446.5	3387.3	3108.8	2642.4	2440.4	2412.6	2478.7	2900.0	2938.3	2948.7	3039.2
27.5°	3366.4	3289.9	2962.6	2572.7	2360.3	2349.9	2496.1	2854.7	2882.6	2892.9	2990.4
30°	3268.9	3154.1	2799.0	2499.6	2276.8	2273.3	2499.6	2799.0	2792.0	2819.9	2917.4
32.5°	3168.0	2952.1	2614.4	2409.1	2196.7	2193.2	2475.2	2715.4	2708.5	2746.8	2819.9
35°	3074.1	2795.5	2363.9	2304.7	2095.8	2099.2	2416.0	2618.0	2621.5	2656.2	2701.5
37.5°	2976.6	2659.8	2088.8	2189.8	1998.3	1998.3	2335.9	2527.5	2520.5	2530.9	2593.6
40°	2861.7	2447.4	1845.1	2040.0	1907.8	1897.3	2238.5	2430.0	2405.6	2402.2	2489.2
42.5°	2739.8	2214.1	1664.1	1841.6	1803.3	1789.4	2120.1	2311.6	2266.4	2276.8	2388.2
45°	2607.5	2151.5	1524.8	1556.2	1695.4	1684.9	1991.3	2175.8	2144.5	2172.4	2287.3
47.5°	2475.2	2026.2	1479.6	1291.5	1580.5	1577.1	1848.6	2043.5	2026.2	2054.0	2175.8
50°	2294.2	1886.9	1476.1	1107.1	1451.7	1465.6	1678.0	1914.7	1914.7	1939.1	2067.9
52.5°	2060.9	1716.3	1340.3	1002.6	1302.0	1343.8	1528.3	1803.3	1810.3	1834.7	1949.6
55°	1848.6	1538.8	1242.8	922.6	1124.5	1215.0	1382.1	1688.4	1702.4	1726.7	1831.2
57.5°	1653.7	1281.1	1222.0	828.6	960.9	1047.9	1253.2	1577.1	1584.0	1604.9	1705.8
60°	1444.7	926.0	1121.0	727.6	818.1	884.3	1134.9	1444.7	1469.1	1483.0	1570.1
62.5°	1208.0	671.9	1016.5	657.9	748.5	762.5	1037.4	1319.4	1350.7	1361.2	1413.4
65°	859.9	564.0	863.4	598.8	675.4	678.8	933.0	1190.6	1218.5	1235.9	1274.2
67.5°	581.3	459.5	657.9	543.1	619.6	623.2	832.0	1040.9	1079.2	1093.1	1117.6
70°	403.8	306.4	487.4	483.9	557.0	564.0	724.2	905.2	940.0	950.4	964.3
72.5°	295.9	247.2	403.8	435.2	490.9	497.8	612.7	752.0	786.8	797.2	804.2
75°	226.3	261.1	327.3	379.4	417.7	421.2	501.3	612.7	637.1	644.1	647.5
77.5°	181.0	243.7	240.2	306.4	341.1	334.2	393.4	473.5	494.3	494.3	494.3
80°	135.8	191.5	181.0	219.3	250.7	243.7	282.0	337.7	344.6	351.6	348.2
82.5°	100.9	121.8	121.8	139.2	167.1	160.1	188.0	219.3	219.3	219.3	226.3
85°	62.6	69.6	55.7	73.1	94.0	90.6	104.4	118.4	121.8	121.8	114.9
87.5°	38.3	31.4	17.4	27.8	41.8	41.8	48.7	52.3	48.7	48.7	48.7
90°	42.8	29.6	16.4	29.6	42.8	46.0	72.3	107.3	124.9	111.0	83.3
92.5°	289.2	177.4	65.7	177.4	289.2	317.2	445.9	617.5	703.3	616.4	442.6
95°	566.8	362.2	157.7	362.2	566.8	617.9	1097.3	1736.4	2055.9	1834.6	1392.0
97.5°	633.6	453.2	272.8	453.2	633.6	678.8	1478.0	2543.6	3076.4	2936.6	2656.9
100°	688.8	525.1	361.5	525.1	688.8	729.7	1616.6	2799.1	3390.3	3400.5	3421.0
102.5°	742.4	589.8	437.1	589.8	742.4	780.6	1680.1	2879.4	3479.1	3657.3	4013.7
105°	823.9	694.6	565.4	694.6	823.9	856.3	1727.3	2888.6	3469.2	3868.7	4667.8
107.5°	937.8	817.3	696.8	817.3	937.8	968.0	1736.0	2760.0	3272.0	3829.3	4943.9
110°	1003.2	894.4	785.6	894.4	1003.2	1030.4	1722.9	2646.1	3107.7	3730.8	4976.8



TEST NUMBER: P936053

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1080.1	976.4	872.7	976.4	1080.1	1106.0	1723.4	2546.5	2958.1	3595.8	4871.1
115°	1195.5	1099.8	1004.2	1099.8	1195.5	1219.4	1739.3	2432.5	2779.0	3393.3	4621.8
117.5°	1307.8	1220.8	1134.0	1220.8	1307.8	1329.5	1771.5	2361.0	2655.7	3210.1	4318.9
120°	1373.1	1291.4	1209.5	1291.4	1373.1	1393.6	1797.9	2336.9	2606.4	3113.0	4126.0
122.5°	1448.6	1366.0	1283.5	1366.0	1448.6	1469.2	1835.7	2324.3	2568.7	3024.8	3937.1
125°	1547.4	1472.1	1396.9	1472.1	1547.4	1566.2	1886.7	2314.0	2527.6	2915.1	3690.0
127.5°	1640.8	1564.9	1488.9	1564.9	1640.8	1659.8	1937.5	2307.9	2493.1	2825.8	3491.2
130°	1701.8	1620.0	1538.3	1620.0	1701.8	1722.3	1974.8	2311.5	2479.9	2776.0	3368.5
132.5°	1752.7	1671.0	1589.2	1671.0	1752.7	1773.2	2004.9	2313.9	2468.4	2733.5	3263.9
135°	1813.8	1739.2	1664.7	1739.2	1813.8	1832.4	2037.8	2311.8	2448.7	2670.7	3114.8
137.5°	1889.6	1815.8	1742.0	1815.8	1889.6	1908.0	2087.1	2325.9	2445.4	2633.1	3008.5
140°	1942.0	1874.0	1806.1	1874.0	1942.0	1959.0	2117.2	2328.3	2433.9	2596.0	2920.4
142.5°	1981.0	1918.2	1855.4	1918.2	1981.0	1996.7	2142.4	2336.7	2433.9	2576.3	2861.2
145°	2040.6	1985.8	1931.0	1985.8	2040.6	2054.3	2175.3	2336.7	2417.4	2533.9	2766.9
147.5°	2113.2	2059.9	2006.6	2059.9	2113.2	2126.5	2223.5	2352.8	2417.4	2509.1	2692.4
150°	2152.4	2104.1	2055.9	2104.1	2152.4	2164.4	2248.7	2361.2	2417.4	2494.9	2649.7
152.5°	2179.9	2143.4	2106.9	2143.4	2179.9	2189.0	2265.1	2366.7	2417.4	2483.6	2615.8
155°	2236.5	2209.5	2182.5	2209.5	2236.5	2243.3	2301.3	2378.7	2417.4	2470.0	2575.3
157.5°	2290.9	2264.6	2238.4	2264.6	2290.9	2297.5	2337.4	2390.7	2417.4	2458.4	2540.1
160°	2317.0	2296.6	2276.1	2296.6	2317.0	2322.1	2353.9	2396.3	2417.4	2452.5	2522.6
162.5°	2344.5	2329.3	2313.9	2329.3	2344.5	2348.4	2371.4	2402.1	2417.4	2447.0	2506.2
165°	2382.7	2368.9	2355.0	2368.9	2382.7	2386.3	2396.6	2410.5	2417.4	2438.6	2480.9
167.5°	2405.9	2399.4	2392.8	2399.4	2405.9	2407.6	2416.4	2428.1	2433.9	2447.7	2475.5
170°	2430.6	2424.0	2417.4	2424.0	2430.6	2432.3	2432.8	2433.5	2433.9	2447.7	2475.5
172.5°	2433.5	2432.0	2430.6	2432.0	2433.5	2433.9	2433.9	2433.9	2433.9	2444.8	2466.8
175°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2443.8	2437.2	2433.9	2440.8	2454.7
177.5°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2444.8	2439.7	2437.2	2442.6	2453.6
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P936053
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3551.0	3540.5	3554.4	3516.1	3554.4	3540.5	3551.0	3575.3	3554.4	3568.4	3582.3
5°	3115.8	3098.4	3042.7	2997.5	3042.7	3098.4	3115.8	3188.9	3223.7	3286.3	3370.0
7.5°	2785.1	2771.1	2757.3	2729.3	2757.3	2771.1	2785.1	2805.9	2840.8	2896.5	2959.2
10°	2711.9	2715.4	2736.3	2732.8	2736.3	2715.4	2711.9	2705.0	2694.5	2705.0	2743.3
12.5°	2900.0	2931.2	3046.1	3039.2	3046.1	2931.2	2900.0	2760.7	2666.7	2649.3	2656.2
15°	3115.8	3126.2	3150.6	3154.1	3150.6	3126.2	3115.8	3060.1	2778.1	2656.2	2618.0
17.5°	3136.7	3140.2	3157.6	3157.6	3157.6	3140.2	3136.7	3112.3	3018.3	2854.7	2638.9
20°	3119.3	3126.2	3161.0	3168.0	3161.0	3126.2	3119.3	3087.9	3035.8	2976.6	2812.9
22.5°	3112.3	3126.2	3154.1	3150.6	3154.1	3126.2	3112.3	3063.6	3018.3	2976.6	2910.4
25°	3077.5	3077.5	3081.0	3084.4	3081.0	3077.5	3077.5	3039.2	2948.7	2938.3	2900.0
27.5°	3004.4	3011.3	3032.2	3028.7	3032.2	3011.3	3004.4	2990.4	2892.9	2882.6	2854.7
30°	2938.3	2931.2	2913.9	2900.0	2913.9	2931.2	2938.3	2917.4	2819.9	2792.0	2799.0
32.5°	2826.8	2809.4	2792.0	2781.6	2792.0	2809.4	2826.8	2819.9	2746.8	2708.5	2715.4
35°	2694.5	2698.1	2694.5	2684.1	2694.5	2698.1	2694.5	2701.5	2656.2	2621.5	2618.0
37.5°	2600.6	2607.5	2604.1	2590.1	2604.1	2607.5	2600.6	2593.6	2530.9	2520.5	2527.5
40°	2503.1	2506.6	2503.1	2492.6	2503.1	2506.6	2503.1	2489.2	2402.2	2405.6	2430.0
42.5°	2409.1	2405.6	2395.1	2388.2	2395.1	2405.6	2409.1	2388.2	2276.8	2266.4	2311.6
45°	2301.1	2304.7	2283.8	2273.3	2283.8	2304.7	2301.1	2287.3	2172.4	2144.5	2175.8
47.5°	2193.2	2193.2	2175.8	2165.4	2175.8	2193.2	2193.2	2175.8	2054.0	2026.2	2043.5
50°	2078.3	2074.9	2050.5	2047.1	2050.5	2074.9	2078.3	2067.9	1939.1	1914.7	1914.7
52.5°	1946.1	1946.1	1949.6	1956.5	1949.6	1946.1	1946.1	1949.6	1834.7	1810.3	1803.3
55°	1831.2	1834.7	1859.0	1866.0	1859.0	1834.7	1831.2	1831.2	1726.7	1702.4	1688.4
57.5°	1712.8	1712.8	1730.3	1730.3	1730.3	1712.8	1712.8	1705.8	1604.9	1584.0	1577.1
60°	1577.1	1584.0	1597.9	1594.5	1597.9	1584.0	1577.1	1570.1	1483.0	1469.1	1444.7
62.5°	1434.3	1441.3	1444.7	1437.8	1444.7	1441.3	1434.3	1413.4	1361.2	1350.7	1319.4
65°	1284.6	1291.5	1295.1	1288.1	1295.1	1291.5	1284.6	1274.2	1235.9	1218.5	1190.6
67.5°	1131.4	1127.9	1124.5	1138.4	1124.5	1127.9	1131.4	1117.6	1093.1	1079.2	1040.9
70°	974.7	974.7	971.3	978.3	971.3	974.7	974.7	964.3	950.4	940.0	905.2
72.5°	807.7	804.2	818.1	807.7	818.1	804.2	807.7	804.2	797.2	786.8	752.0
75°	644.1	651.0	644.1	654.5	644.1	651.0	644.1	647.5	644.1	637.1	612.7
77.5°	490.9	497.8	490.9	490.9	490.9	497.8	490.9	494.3	494.3	494.3	473.5
80°	348.2	344.6	344.6	341.1	344.6	344.6	348.2	348.2	351.6	344.6	337.7
82.5°	222.8	219.3	219.3	226.3	219.3	219.3	222.8	226.3	219.3	219.3	219.3
85°	121.8	125.3	118.4	118.4	118.4	125.3	121.8	114.9	121.8	121.8	118.4
87.5°	45.2	41.8	41.8	41.8	41.8	41.8	45.2	48.7	48.7	48.7	52.3
90°	62.4	62.4	62.4	62.4	62.4	62.4	62.4	83.3	111.0	124.9	107.3
92.5°	312.2	299.9	250.1	200.5	250.1	299.9	312.2	442.6	616.4	703.3	617.5
95°	1060.0	1022.4	871.9	721.4	871.9	1022.4	1060.0	1392.0	1834.6	2055.9	1736.4
97.5°	2447.0	2375.5	2089.1	1802.8	2089.1	2375.5	2447.0	2656.9	2936.6	3076.4	2543.6
100°	3436.4	3351.1	3010.0	2668.9	3010.0	3351.1	3436.4	3421.0	3400.5	3390.3	2799.1
102.5°	4281.1	4208.0	3915.9	3623.7	3915.9	4208.0	4281.1	4013.7	3657.3	3479.1	2879.4
105°	5267.1	5227.8	5070.9	4913.8	5070.9	5227.8	5267.1	4667.8	3868.7	3469.2	2888.6
107.5°	5779.8	5789.3	5827.4	5865.3	5827.4	5789.3	5779.8	4943.9	3829.3	3272.0	2760.0
110°	5911.3	5952.2	6115.9	6279.5	6115.9	5952.2	5911.3	4976.8	3730.8	3107.7	2646.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	5827.5	5890.3	6141.6	6392.9	6141.6	5890.3	5827.5	4871.1	3595.8	2958.1	2546.5
115°	5543.2	5630.3	5978.7	6327.1	5978.7	5630.3	5543.2	4621.8	3393.3	2779.0	2432.5
117.5°	5150.4	5247.1	5633.4	6019.8	5633.4	5247.1	5150.4	4318.9	3210.1	2655.7	2361.0
120°	4885.8	4979.7	5355.1	5730.6	5355.1	4979.7	4885.8	4126.0	3113.0	2606.4	2336.9
122.5°	4621.3	4713.8	5084.2	5454.5	5084.2	4713.8	4621.3	3937.1	3024.8	2568.7	2324.3
125°	4271.2	4356.5	4697.6	5038.7	4697.6	4356.5	4271.2	3690.0	2915.1	2527.6	2314.0
127.5°	3990.2	4062.1	4350.0	4637.7	4350.0	4062.1	3990.2	3491.2	2825.8	2493.1	2307.9
130°	3812.7	3879.2	4145.1	4410.9	4145.1	3879.2	3812.7	3368.5	2776.0	2479.9	2311.5
132.5°	3661.5	3721.1	3959.1	4197.2	3959.1	3721.1	3661.5	3263.9	2733.5	2468.4	2313.9
135°	3447.9	3499.2	3704.4	3909.7	3704.4	3499.2	3447.9	3114.8	2670.7	2448.7	2311.8
137.5°	3290.1	3332.1	3500.1	3668.0	3500.1	3332.1	3290.1	3008.5	2633.1	2445.4	2325.9
140°	3163.6	3202.8	3359.9	3516.9	3359.9	3202.8	3163.6	2920.4	2596.0	2433.9	2328.3
142.5°	3074.8	3108.7	3243.7	3378.8	3243.7	3108.7	3074.8	2861.2	2576.3	2433.9	2336.7
145°	2941.7	2967.3	3069.6	3171.8	3069.6	2967.3	2941.7	2766.9	2533.9	2417.4	2336.7
147.5°	2830.0	2851.1	2935.9	3020.6	2935.9	2851.1	2830.0	2692.4	2509.1	2417.4	2352.8
150°	2765.9	2783.0	2851.7	2920.4	2851.7	2783.0	2765.9	2649.7	2494.9	2417.4	2361.2
152.5°	2714.9	2727.9	2779.7	2831.6	2779.7	2727.9	2714.9	2615.8	2483.6	2417.4	2366.7
155°	2654.1	2662.7	2697.0	2731.3	2697.0	2662.7	2654.1	2575.3	2470.0	2417.4	2378.7
157.5°	2601.5	2607.6	2631.7	2655.7	2631.7	2607.6	2601.5	2540.1	2458.4	2417.4	2390.7
160°	2575.2	2578.7	2592.6	2606.4	2592.6	2578.7	2575.2	2522.6	2452.5	2417.4	2396.3
162.5°	2550.6	2553.8	2567.0	2580.2	2567.0	2553.8	2550.6	2506.2	2447.0	2417.4	2402.1
165°	2512.7	2516.2	2530.1	2544.0	2530.1	2516.2	2512.7	2480.9	2438.6	2417.4	2410.5
167.5°	2496.3	2497.8	2503.6	2509.5	2503.6	2497.8	2496.3	2475.5	2447.7	2433.9	2428.1
170°	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2475.5	2447.7	2433.9	2433.5
172.5°	2483.2	2481.9	2476.8	2471.7	2476.8	2481.9	2483.2	2466.8	2444.8	2433.9	2433.9
175°	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2454.7	2440.8	2433.9	2437.2
177.5°	2461.8	2460.3	2454.5	2448.7	2454.5	2460.3	2461.8	2453.6	2442.6	2437.2	2439.7
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P936053

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3634.5	3651.9	3662.3	3676.3	3711.1
5°	3495.3	3561.4	3582.3	3634.5	3697.2
7.5°	3188.9	3390.9	3446.5	3571.9	3669.3
10°	2892.9	3094.9	3192.4	3488.3	3634.5
12.5°	2743.3	2861.7	2927.8	3342.1	3585.8
15°	2649.3	2732.8	2781.6	3147.1	3530.1
17.5°	2576.1	2635.3	2670.2	2955.7	3453.5
20°	2530.9	2558.8	2590.1	2816.4	3366.4
22.5°	2499.6	2482.2	2506.6	2719.0	3248.0
25°	2478.7	2412.6	2440.4	2642.4	3108.8
27.5°	2496.1	2349.9	2360.3	2572.7	2962.6
30°	2499.6	2273.3	2276.8	2499.6	2799.0
32.5°	2475.2	2193.2	2196.7	2409.1	2614.4
35°	2416.0	2099.2	2095.8	2304.7	2363.9
37.5°	2335.9	1998.3	1998.3	2189.8	2088.8
40°	2238.5	1897.3	1907.8	2040.0	1845.1
42.5°	2120.1	1789.4	1803.3	1841.6	1664.1
45°	1991.3	1684.9	1695.4	1556.2	1524.8
47.5°	1848.6	1577.1	1580.5	1291.5	1479.6
50°	1678.0	1465.6	1451.7	1107.1	1476.1
52.5°	1528.3	1343.8	1302.0	1002.6	1340.3
55°	1382.1	1215.0	1124.5	922.6	1242.8
57.5°	1253.2	1047.9	960.9	828.6	1222.0
60°	1134.9	884.3	818.1	727.6	1121.0
62.5°	1037.4	762.5	748.5	657.9	1016.5
65°	933.0	678.8	675.4	598.8	863.4
67.5°	832.0	623.2	619.6	543.1	657.9
70°	724.2	564.0	557.0	483.9	487.4
72.5°	612.7	497.8	490.9	435.2	403.8
75°	501.3	421.2	417.7	379.4	327.3
77.5°	393.4	334.2	341.1	306.4	240.2
80°	282.0	243.7	250.7	219.3	181.0
82.5°	188.0	160.1	167.1	139.2	121.8
85°	104.4	90.6	94.0	73.1	55.7
87.5°	48.7	41.8	41.8	27.8	17.4
90°	72.3	46.0	42.8	29.6	16.4
92.5°	445.9	317.2	289.2	177.4	65.7
95°	1097.3	617.9	566.8	362.2	157.7
97.5°	1478.0	678.8	633.6	453.2	272.8
100°	1616.6	729.7	688.8	525.1	361.5
102.5°	1680.1	780.6	742.4	589.8	437.1
105°	1727.3	856.3	823.9	694.6	565.4
107.5°	1736.0	968.0	937.8	817.3	696.8
110°	1722.9	1030.4	1003.2	894.4	785.6



TEST NUMBER: P936053

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1723.4	1106.0	1080.1	976.4	872.7
115°	1739.3	1219.4	1195.5	1099.8	1004.2
117.5°	1771.5	1329.5	1307.8	1220.8	1134.0
120°	1797.9	1393.6	1373.1	1291.4	1209.5
122.5°	1835.7	1469.2	1448.6	1366.0	1283.5
125°	1886.7	1566.2	1547.4	1472.1	1396.9
127.5°	1937.5	1659.8	1640.8	1564.9	1488.9
130°	1974.8	1722.3	1701.8	1620.0	1538.3
132.5°	2004.9	1773.2	1752.7	1671.0	1589.2
135°	2037.8	1832.4	1813.8	1739.2	1664.7
137.5°	2087.1	1908.0	1889.6	1815.8	1742.0
140°	2117.2	1959.0	1942.0	1874.0	1806.1
142.5°	2142.4	1996.7	1981.0	1918.2	1855.4
145°	2175.3	2054.3	2040.6	1985.8	1931.0
147.5°	2223.5	2126.5	2113.2	2059.9	2006.6
150°	2248.7	2164.4	2152.4	2104.1	2055.9
152.5°	2265.1	2189.0	2179.9	2143.4	2106.9
155°	2301.3	2243.3	2236.5	2209.5	2182.5
157.5°	2337.4	2297.5	2290.9	2264.6	2238.4
160°	2353.9	2322.1	2317.0	2296.6	2276.1
162.5°	2371.4	2348.4	2344.5	2329.3	2313.9
165°	2396.6	2386.3	2382.7	2368.9	2355.0
167.5°	2416.4	2407.6	2405.9	2399.4	2392.8
170°	2432.8	2432.3	2430.6	2424.0	2417.4
172.5°	2433.9	2433.9	2433.5	2432.0	2430.6
175°	2443.8	2448.7	2448.7	2448.7	2448.7
177.5°	2444.8	2448.7	2448.7	2448.7	2448.7
180°	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P936053
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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	11.99	12.75	13.05	13.81	15.25	14.84	15.60	15.90	16.66	18.10
	3H	12.46	13.14	13.53	14.21	15.66	16.19	16.87	17.25	17.93	19.39
	4H	12.64	13.29	13.72	14.36	15.82	16.63	17.27	17.71	18.34	19.81
	6H	12.76	13.35	13.85	14.43	15.90	16.91	17.51	18.00	18.58	20.06
	8H	12.76	13.32	13.85	14.41	15.88	16.99	17.55	18.08	18.64	20.11
	12H	12.72	13.26	13.82	14.34	15.84	17.03	17.56	18.12	18.65	20.14
4H	2H	13.01	13.66	14.10	14.73	16.19	15.24	15.88	16.32	16.95	18.42
	3H	14.03	14.57	15.12	15.67	17.14	16.74	17.28	17.83	18.37	19.85
	4H	14.30	14.80	15.40	15.89	17.38	17.27	17.76	18.36	18.85	20.35
	6H	14.42	14.85	15.53	15.96	17.45	17.63	18.05	18.74	19.17	20.66
	8H	14.43	14.82	15.53	15.92	17.43	17.74	18.13	18.84	19.24	20.74
	12H	14.39	14.75	15.51	15.86	17.37	17.79	18.15	18.92	19.27	20.78
8H	4H	14.75	15.15	15.86	16.25	17.76	17.38	17.78	18.49	18.88	20.39
	6H	15.01	15.34	16.14	16.48	17.98	17.82	18.15	18.95	19.29	20.80
	8H	15.05	15.34	16.18	16.46	17.99	17.97	18.26	19.11	19.39	20.91
	12H	15.03	15.28	16.17	16.40	17.96	18.07	18.32	19.21	19.45	21.01
12H	4H	14.75	15.11	15.88	16.23	17.74	17.34	17.70	18.46	18.82	20.33
	6H	15.07	15.36	16.20	16.48	18.01	17.82	18.10	18.95	19.23	20.75
	8H	15.13	15.38	16.27	16.51	18.07	17.98	18.23	19.11	19.35	20.91