

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: P936029

Luminaire Tested: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936029
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-92765-1D-UNV-STD-W-12-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

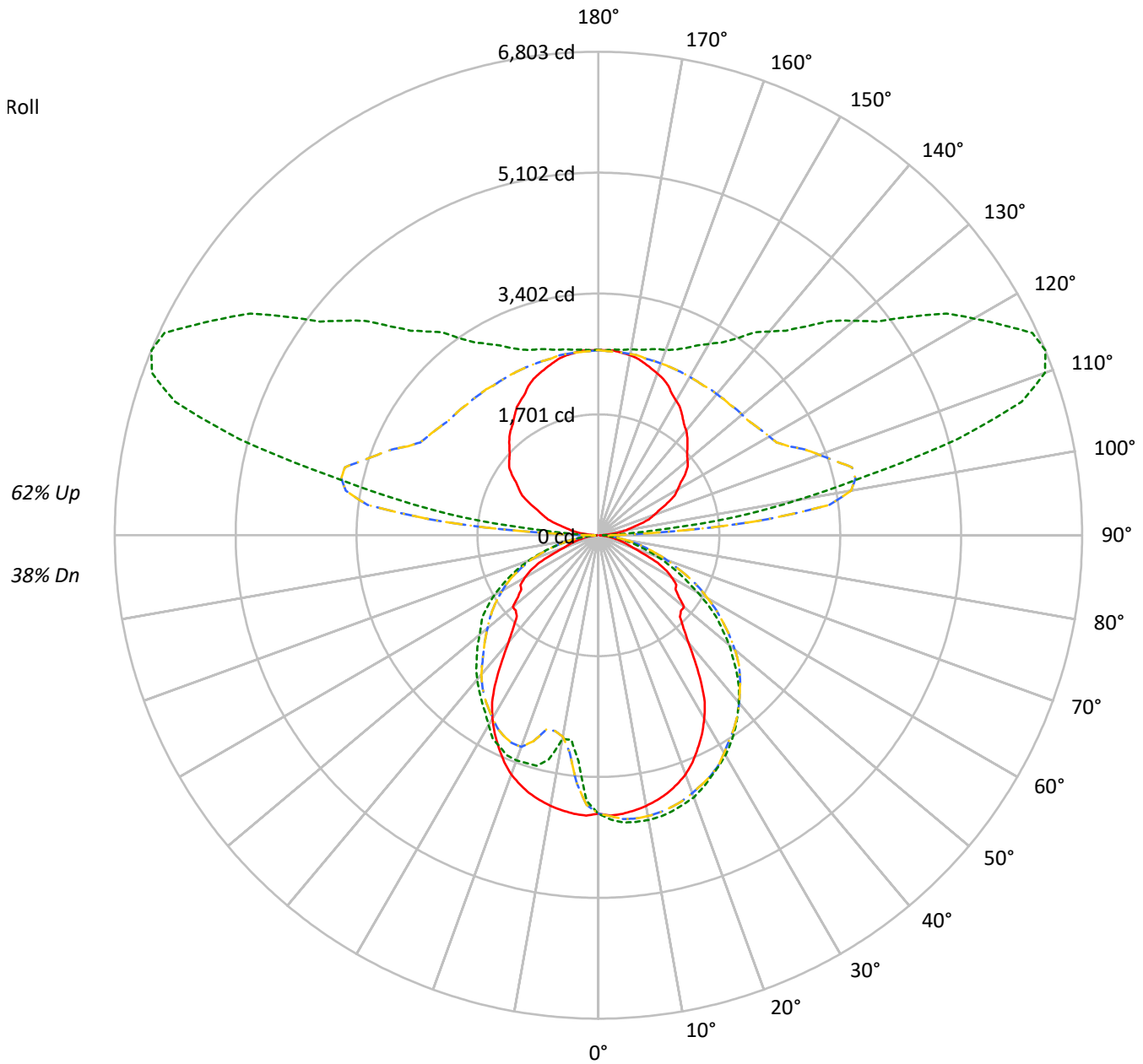
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27056.9 lumens
Efficiency: N/A
Efficacy: 124.6 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°	12112	12112	12112	12112
5°	12208	12227	12208	9615
10°	12130	12044	12130	8611
15°	12003	11783	12003	9839
20°	11757	11474	11757	9860
25°	11248	11024	11248	9651
30°	10588	10649	10588	9193
35°	9444	10176	9444	8688
40°	7873	9618	7873	8307
45°	7039	8966	7039	7869
50°	7485	8188	7485	7430
55°	7048	7349	7048	7175
60°	7275	6242	7275	6572
65°	6606	5160	6606	5768
70°	4586	4112	4586	4835
75°	4037	3040	4037	3640
80°	3276	2009	3276	2188
85°	1921	1064	1921	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10783 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	1.3
10°-20°	1003.7	3.7
20°-30°	1551.5	5.7
30°-40°	1852.1	6.8
40°-50°	1863.0	6.9
50°-60°	1621.0	6.0
60°-70°	1149.3	4.2
70°-80°	608.1	2.2
80°-90°	161.4	0.6
90°-100°	1270.3	4.7
100°-110°	3339.6	12.3
110°-120°	3462.8	12.8
120°-130°	2777.6	10.3
130°-140°	2179.4	8.1
140°-150°	1672.8	6.2
150°-160°	1204.7	4.5
160°-170°	737.1	2.7
170°-180°	249.0	0.9
0°-30°	2908.7	10.8
0°-40°	4760.8	17.6
0°-60°	8244.9	30.5
0°-90°	10163.7	37.6
90°-120°	8072.7	29.8
90°-150°	14702.4	54.3
90°-180°	16893.0	62.4
0°-180°	27056.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3916	3916	3916	3916	3916	
5°	3935	4057	3935	3190	3935	373
15°	3757	4020	3757	3357	3757	1057
25°	3308	3749	3308	3282	3308	1519
35°	2516	3346	2516	2856	2516	1556
45°	1623	2756	1623	2419	1623	1300
55°	1323	2034	1323	1986	1323	1215
65°	919	1226	919	1371	919	878
75°	348	582	348	696	348	366
85°	59	148	59	126	59	80
90°	18	66	18	66	18	17
95°	168	768	168	768	168	186
105°	602	5229	602	5229	602	638
115°	1069	6733	1069	6733	1069	1055
125°	1487	5362	1487	5362	1487	1320
135°	1772	4161	1772	4161	1772	1371
145°	2055	3376	2055	3376	2055	1287
155°	2323	2907	2323	2907	2323	1067
165°	2506	2707	2506	2707	2506	707
175°	2606	2623	2606	2623	2606	247
180°	2606	2606	2606	2606	2606	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3949.4	3949.4	3971.7	3979.0	3979.0	3967.9	3956.8	3967.9	4001.3	4012.4	4008.7
5°	3934.6	3964.3	4005.0	4012.4	4019.8	4016.2	4008.7	4016.2	4053.2	4060.5	4064.3
7.5°	3904.9	3960.5	4012.4	4023.5	4034.7	4023.5	4019.8	4027.3	4064.3	4071.7	4071.7
10°	3867.9	3945.8	4005.0	4012.4	4023.5	4012.4	4012.4	4027.3	4064.3	4071.7	4075.4
12.5°	3816.0	3923.5	3979.0	3986.5	4001.3	3997.6	3993.9	4008.7	4045.8	4053.2	4053.2
15°	3756.8	3882.8	3934.6	3942.0	3967.9	3960.5	3960.5	3975.4	4016.2	4027.3	4023.5
17.5°	3675.3	3830.9	3890.2	3901.3	3919.8	3916.0	3919.8	3934.6	3971.7	3979.0	3982.8
20°	3582.6	3760.5	3830.9	3842.0	3860.5	3860.5	3860.5	3879.0	3916.0	3930.9	3930.9
22.5°	3456.6	3686.4	3760.5	3767.9	3790.1	3790.1	3797.5	3823.4	3856.8	3860.5	3860.5
25°	3308.5	3604.9	3667.9	3690.1	3712.3	3723.4	3734.5	3749.4	3760.5	3756.8	3760.5
27.5°	3152.9	3501.1	3582.6	3597.5	3627.1	3638.2	3653.0	3656.8	3660.4	3671.5	3664.1
30°	2978.7	3356.6	3478.9	3493.7	3541.9	3549.3	3534.5	3541.9	3560.4	3567.9	3575.3
32.5°	2782.3	3141.7	3371.5	3404.8	3449.3	3427.0	3423.4	3434.5	3464.1	3464.1	3471.5
35°	2515.7	2975.1	3271.5	3301.1	3334.4	3308.5	3323.3	3327.0	3345.5	3356.6	3353.0
37.5°	2222.9	2830.6	3167.7	3190.0	3215.9	3182.5	3204.7	3215.9	3230.7	3223.2	3223.2
40°	1963.6	2604.6	3045.5	3060.2	3082.5	3056.6	3078.7	3086.2	3093.6	3086.2	3082.5
42.5°	1771.0	2356.3	2915.7	2934.3	2919.5	2938.0	2945.4	2960.2	2949.1	2934.3	2934.3
45°	1622.7	2289.7	2775.0	2797.2	2775.0	2804.6	2815.7	2815.7	2782.3	2775.0	2771.3
47.5°	1574.6	2156.3	2634.2	2634.2	2623.1	2660.1	2678.7	2652.7	2619.3	2608.3	2608.3
50°	1570.9	2008.0	2441.5	2426.7	2478.6	2523.1	2504.5	2478.6	2452.7	2411.9	2411.9
52.5°	1426.4	1826.5	2193.3	2248.9	2330.4	2356.3	2326.7	2300.8	2256.3	2237.8	2222.9
55°	1322.6	1637.6	1967.3	2078.4	2163.7	2197.0	2141.4	2115.5	2048.8	2037.7	2030.3
57.5°	1300.5	1363.4	1759.9	1900.6	2004.4	2000.6	1967.3	1919.1	1863.5	1852.5	1848.8
60°	1193.0	985.5	1537.5	1704.2	1811.7	1800.6	1771.0	1726.5	1674.6	1667.2	1659.8
62.5°	1081.8	715.1	1285.6	1474.6	1626.5	1622.7	1596.9	1530.1	1493.1	1474.6	1459.7
65°	918.8	600.2	915.1	1226.3	1444.9	1452.3	1396.7	1348.6	1307.8	1285.6	1281.9
67.5°	700.2	489.0	618.7	1022.6	1270.8	1263.3	1193.0	1170.7	1118.8	1107.7	1085.6
70°	518.7	326.0	429.8	829.9	1100.3	1081.8	1026.2	1000.3	952.2	926.2	911.4
72.5°	429.8	263.0	314.9	644.7	926.2	904.0	855.8	826.2	785.4	763.2	748.4
75°	348.3	277.9	240.8	477.9	752.1	737.3	692.8	663.2	629.8	600.2	603.9
77.5°	255.6	259.4	192.6	352.0	596.5	574.3	548.3	511.3	496.4	466.8	466.8
80°	192.6	203.8	144.5	240.8	429.8	429.8	407.5	381.6	355.7	340.9	340.9
82.5°	129.6	129.6	107.4	151.9	292.7	281.5	266.8	259.4	244.5	237.1	237.1
85°	59.3	74.1	66.6	92.6	159.3	166.8	166.8	159.3	155.6	148.2	151.9
87.5°	18.5	33.4	40.8	51.9	81.5	85.2	88.9	88.9	88.9	92.6	92.6
90°	17.5	31.5	45.5	49.0	76.9	114.2	132.9	118.1	88.6	66.5	66.5
92.5°	69.9	188.8	307.8	337.5	474.6	657.2	748.5	656.0	471.0	332.3	319.1
95°	167.9	385.5	603.2	657.6	1167.7	1847.9	2188.0	1952.4	1481.4	1128.1	1088.1
97.5°	290.3	482.3	674.3	722.3	1572.9	2707.0	3274.0	3125.2	2827.5	2604.2	2528.0
100°	384.7	558.9	733.0	776.6	1720.4	2978.8	3608.1	3618.9	3640.7	3657.0	3566.3
102.5°	465.2	627.7	790.1	830.8	1788.0	3064.3	3702.6	3892.2	4271.5	4556.0	4478.3
105°	601.7	739.3	876.8	911.2	1838.2	3074.1	3692.0	4117.2	4967.6	5605.3	5563.6
107.5°	741.6	869.8	998.1	1030.1	1847.4	2937.2	3482.2	4075.2	5261.4	6151.0	6161.1
110°	836.0	951.8	1067.6	1096.6	1833.5	2816.0	3307.3	3970.4	5296.4	6290.9	6334.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	928.7	1039.1	1149.5	1177.1	1834.1	2710.1	3148.1	3826.7	5183.9	6201.8	6268.6
115°	1068.6	1170.4	1272.3	1297.7	1851.0	2588.7	2957.5	3611.2	4918.6	5899.2	5991.9
117.5°	1206.8	1299.2	1391.8	1414.9	1885.3	2512.6	2826.3	3416.3	4596.2	5481.2	5584.0
120°	1287.2	1374.3	1461.3	1483.1	1913.3	2487.0	2773.8	3312.9	4391.0	5199.6	5299.5
122.5°	1365.9	1453.7	1541.6	1563.6	1953.6	2473.6	2733.6	3219.0	4189.9	4918.0	5016.6
125°	1486.6	1566.7	1646.8	1666.8	2007.8	2462.6	2689.9	3102.3	3927.0	4545.5	4636.2
127.5°	1584.5	1665.4	1746.2	1766.4	2062.0	2456.1	2653.2	3007.2	3715.4	4246.5	4323.0
130°	1637.0	1724.1	1811.1	1832.9	2101.6	2460.0	2639.1	2954.3	3584.8	4057.6	4128.3
132.5°	1691.3	1778.3	1865.3	1887.1	2133.7	2462.5	2626.9	2909.1	3473.5	3896.7	3960.1
135°	1771.6	1850.9	1930.3	1950.1	2168.7	2460.2	2606.0	2842.3	3314.8	3669.3	3723.9
137.5°	1853.9	1932.4	2010.9	2030.6	2221.1	2475.3	2602.4	2802.2	3201.7	3501.4	3546.1
140°	1922.1	1994.4	2066.7	2084.8	2253.2	2477.8	2590.2	2762.7	3107.9	3366.7	3408.5
142.5°	1974.6	2041.4	2108.2	2125.0	2280.0	2486.8	2590.2	2741.8	3044.9	3272.3	3308.3
145°	2055.0	2113.4	2171.6	2186.2	2315.0	2486.8	2572.7	2696.6	2944.6	3130.6	3157.8
147.5°	2135.4	2192.2	2248.9	2263.1	2366.3	2503.9	2572.7	2670.3	2865.3	3011.7	3034.2
150°	2188.0	2239.3	2290.6	2303.4	2393.1	2512.9	2572.7	2655.1	2819.9	2943.5	2961.7
152.5°	2242.2	2281.1	2319.8	2329.6	2410.6	2518.7	2572.7	2643.1	2783.7	2889.3	2903.1
155°	2322.7	2351.4	2380.1	2387.3	2449.1	2531.5	2572.7	2628.7	2740.7	2824.6	2833.7
157.5°	2382.1	2410.0	2438.0	2445.0	2487.5	2544.3	2572.7	2616.2	2703.3	2768.6	2775.0
160°	2422.3	2444.1	2465.8	2471.3	2505.1	2550.2	2572.7	2610.0	2684.6	2740.6	2744.3
162.5°	2462.5	2478.8	2495.1	2499.2	2523.7	2556.3	2572.7	2604.2	2667.2	2714.4	2717.8
165°	2506.2	2521.0	2535.8	2539.5	2550.5	2565.3	2572.7	2595.2	2640.3	2674.1	2677.8
167.5°	2546.5	2553.5	2560.4	2562.2	2571.6	2584.0	2590.2	2604.9	2634.5	2656.6	2658.2
170°	2572.7	2579.7	2586.7	2588.5	2589.0	2589.8	2590.2	2604.9	2634.5	2656.6	2656.6
172.5°	2586.7	2588.2	2589.8	2590.2	2590.2	2590.2	2590.2	2601.8	2625.2	2642.7	2641.3
175°	2606.0	2606.0	2606.0	2606.0	2600.7	2593.7	2590.2	2597.5	2612.3	2623.4	2623.4
177.5°	2606.0	2606.0	2606.0	2606.0	2601.8	2596.4	2593.7	2599.5	2611.2	2619.9	2618.3
180°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	4016.2	4005.0	4016.2	4008.7	4012.4	4001.3	3967.9	3956.8	3967.9	3979.0	3979.0
5°	4064.3	4056.9	4064.3	4064.3	4060.5	4053.2	4016.2	4008.7	4016.2	4019.8	4012.4
7.5°	4079.1	4068.0	4079.1	4071.7	4071.7	4064.3	4027.3	4019.8	4023.5	4034.7	4023.5
10°	4079.1	4068.0	4079.1	4075.4	4071.7	4064.3	4027.3	4012.4	4012.4	4023.5	4012.4
12.5°	4060.5	4053.2	4060.5	4053.2	4053.2	4045.8	4008.7	3993.9	3997.6	4001.3	3986.5
15°	4030.9	4019.8	4030.9	4023.5	4027.3	4016.2	3975.4	3960.5	3960.5	3967.9	3942.0
17.5°	3986.5	3971.7	3986.5	3982.8	3979.0	3971.7	3934.6	3919.8	3916.0	3919.8	3901.3
20°	3934.6	3923.5	3934.6	3930.9	3930.9	3916.0	3879.0	3860.5	3860.5	3860.5	3842.0
22.5°	3853.1	3842.0	3853.1	3860.5	3860.5	3856.8	3823.4	3797.5	3790.1	3790.1	3767.9
25°	3760.5	3749.4	3760.5	3760.5	3756.8	3760.5	3749.4	3734.5	3723.4	3712.3	3690.1
27.5°	3671.5	3664.1	3671.5	3664.1	3671.5	3660.4	3656.8	3653.0	3638.2	3627.1	3597.5
30°	3582.6	3575.3	3582.6	3575.3	3567.9	3560.4	3541.9	3534.5	3549.3	3541.9	3493.7
32.5°	3471.5	3464.1	3471.5	3471.5	3464.1	3464.1	3434.5	3423.4	3427.0	3449.3	3404.8
35°	3356.6	3345.5	3356.6	3353.0	3356.6	3345.5	3327.0	3323.3	3308.5	3334.4	3301.1
37.5°	3223.2	3212.1	3223.2	3223.2	3223.2	3230.7	3215.9	3204.7	3182.5	3215.9	3190.0
40°	3086.2	3071.4	3086.2	3082.5	3086.2	3093.6	3086.2	3078.7	3056.6	3082.5	3060.2
42.5°	2930.6	2926.8	2930.6	2934.3	2934.3	2949.1	2960.2	2945.4	2938.0	2919.5	2934.3
45°	2763.8	2756.4	2763.8	2771.3	2775.0	2782.3	2815.7	2815.7	2804.6	2775.0	2797.2
47.5°	2586.1	2567.5	2586.1	2608.3	2608.3	2619.3	2652.7	2678.7	2660.1	2623.1	2634.2
50°	2397.1	2400.8	2397.1	2411.9	2411.9	2452.7	2478.6	2504.5	2523.1	2478.6	2426.7
52.5°	2211.8	2208.1	2211.8	2222.9	2237.8	2256.3	2300.8	2326.7	2356.3	2330.4	2248.9
55°	2026.5	2034.0	2026.5	2030.3	2037.7	2048.8	2115.5	2141.4	2197.0	2163.7	2078.4
57.5°	1841.4	1830.2	1841.4	1848.8	1852.5	1863.5	1919.1	1967.3	2000.6	2004.4	1900.6
60°	1626.5	1611.6	1626.5	1659.8	1667.2	1674.6	1726.5	1771.0	1800.6	1811.7	1704.2
62.5°	1437.5	1411.6	1437.5	1459.7	1474.6	1493.1	1530.1	1596.9	1622.7	1626.5	1474.6
65°	1237.5	1226.3	1237.5	1281.9	1285.6	1307.8	1348.6	1396.7	1452.3	1444.9	1226.3
67.5°	1055.9	1055.9	1055.9	1085.6	1107.7	1118.8	1170.7	1193.0	1263.3	1270.8	1022.6
70°	889.2	885.4	889.2	911.4	926.2	952.2	1000.3	1026.2	1081.8	1100.3	829.9
72.5°	729.9	726.2	729.9	748.4	763.2	785.4	826.2	855.8	904.0	926.2	644.7
75°	589.1	581.7	589.1	603.9	600.2	629.8	663.2	692.8	737.3	752.1	477.9
77.5°	452.0	452.0	452.0	466.8	466.8	496.4	511.3	548.3	574.3	596.5	352.0
80°	337.1	333.4	337.1	340.9	340.9	355.7	381.6	407.5	429.8	429.8	240.8
82.5°	237.1	229.7	237.1	237.1	237.1	244.5	259.4	266.8	281.5	292.7	151.9
85°	148.2	148.2	148.2	151.9	148.2	155.6	159.3	166.8	166.8	159.3	92.6
87.5°	96.4	92.6	96.4	92.6	92.6	88.9	88.9	88.9	85.2	81.5	51.9
90°	66.5	66.5	66.5	66.5	66.5	88.6	118.1	132.9	114.2	76.9	49.0
92.5°	266.2	213.4	266.2	319.1	332.3	471.0	656.0	748.5	657.2	474.6	337.5
95°	927.9	767.8	927.9	1088.1	1128.1	1481.4	1952.4	2188.0	1847.9	1167.7	657.6
97.5°	2223.3	1918.6	2223.3	2528.0	2604.2	2827.5	3125.2	3274.0	2707.0	1572.9	722.3
100°	3203.3	2840.3	3203.3	3566.3	3657.0	3640.7	3618.9	3608.1	2978.8	1720.4	776.6
102.5°	4167.4	3856.4	4167.4	4478.3	4556.0	4271.5	3892.2	3702.6	3064.3	1788.0	830.8
105°	5396.5	5229.4	5396.5	5563.6	5605.3	4967.6	4117.2	3692.0	3074.1	1838.2	911.2
107.5°	6201.6	6242.0	6201.6	6161.1	6151.0	5261.4	4075.2	3482.2	2937.2	1847.4	1030.1
110°	6508.6	6682.8	6508.6	6334.5	6290.9	5296.4	3970.4	3307.3	2816.0	1833.5	1096.6



TEST NUMBER: P936029

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6536.0	6803.4	6536.0	6268.6	6201.8	5183.9	3826.7	3148.1	2710.1	1834.1	1177.1
115°	6362.6	6733.4	6362.6	5991.9	5899.2	4918.6	3611.2	2957.5	2588.7	1851.0	1297.7
117.5°	5995.2	6406.4	5995.2	5584.0	5481.2	4596.2	3416.3	2826.3	2512.6	1885.3	1414.9
120°	5699.0	6098.6	5699.0	5299.5	5199.6	4391.0	3312.9	2773.8	2487.0	1913.3	1483.1
122.5°	5410.7	5804.8	5410.7	5016.6	4918.0	4189.9	3219.0	2733.6	2473.6	1953.6	1563.6
125°	4999.3	5362.3	4999.3	4636.2	4545.5	3927.0	3102.3	2689.9	2462.6	2007.8	1666.8
127.5°	4629.3	4935.5	4629.3	4323.0	4246.5	3715.4	3007.2	2653.2	2456.1	2062.0	1766.4
130°	4411.3	4694.2	4411.3	4128.3	4057.6	3584.8	2954.3	2639.1	2460.0	2101.6	1832.9
132.5°	4213.4	4466.8	4213.4	3960.1	3896.7	3473.5	2909.1	2626.9	2462.5	2133.7	1887.1
135°	3942.3	4160.8	3942.3	3723.9	3669.3	3314.8	2842.3	2606.0	2460.2	2168.7	1950.1
137.5°	3724.9	3903.6	3724.9	3546.1	3501.4	3201.7	2802.2	2602.4	2475.3	2221.1	2030.6
140°	3575.6	3742.7	3575.6	3408.5	3366.7	3107.9	2762.7	2590.2	2477.8	2253.2	2084.8
142.5°	3452.1	3595.8	3452.1	3308.3	3272.3	3044.9	2741.8	2590.2	2486.8	2280.0	2125.0
145°	3266.7	3375.5	3266.7	3157.8	3130.6	2944.6	2696.6	2572.7	2486.8	2315.0	2186.2
147.5°	3124.4	3214.5	3124.4	3034.2	3011.7	2865.3	2670.3	2572.7	2503.9	2366.3	2263.1
150°	3034.8	3107.9	3034.8	2961.7	2943.5	2819.9	2655.1	2572.7	2512.9	2393.1	2303.4
152.5°	2958.3	3013.4	2958.3	2903.1	2889.3	2783.7	2643.1	2572.7	2518.7	2410.6	2329.6
155°	2870.2	2906.7	2870.2	2833.7	2824.6	2740.7	2628.7	2572.7	2531.5	2449.1	2387.3
157.5°	2800.7	2826.3	2800.7	2775.0	2768.6	2703.3	2616.2	2572.7	2544.3	2487.5	2445.0
160°	2759.1	2773.8	2759.1	2744.3	2740.6	2684.6	2610.0	2572.7	2550.2	2505.1	2471.3
162.5°	2731.9	2745.9	2731.9	2717.8	2714.4	2667.2	2604.2	2572.7	2556.3	2523.7	2499.2
165°	2692.6	2707.4	2692.6	2677.8	2674.1	2640.3	2595.2	2572.7	2565.3	2550.5	2539.5
167.5°	2664.4	2670.6	2664.4	2658.2	2656.6	2634.5	2604.9	2590.2	2584.0	2571.6	2562.2
170°	2656.6	2656.6	2656.6	2656.6	2656.6	2634.5	2604.9	2590.2	2589.8	2589.0	2588.5
172.5°	2635.9	2630.4	2635.9	2641.3	2642.7	2625.2	2601.8	2590.2	2590.2	2590.2	2590.2
175°	2623.4	2623.4	2623.4	2623.4	2623.4	2612.3	2597.5	2590.2	2593.7	2600.7	2606.0
177.5°	2612.1	2606.0	2612.1	2618.3	2619.9	2611.2	2599.5	2593.7	2596.4	2601.8	2606.0
180°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0



TEST NUMBER: P936029

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3971.7	3949.4	3949.4	3912.4	3897.5	3886.4	3867.9	3812.4	3797.5	3782.7	3804.9
5°	4005.0	3964.3	3934.6	3867.9	3812.4	3790.1	3719.8	3586.4	3497.4	3430.7	3393.7
7.5°	4012.4	3960.5	3904.9	3801.3	3667.9	3608.6	3393.7	3149.2	3082.5	3023.2	2986.1
10°	4005.0	3945.8	3867.9	3712.3	3397.4	3293.6	3078.7	2919.5	2878.7	2867.6	2878.7
12.5°	3979.0	3923.5	3816.0	3556.7	3115.8	3045.5	2919.5	2826.8	2819.4	2838.0	2938.0
15°	3934.6	3882.8	3756.8	3349.2	2960.2	2908.3	2819.4	2786.1	2826.8	2956.5	3256.6
17.5°	3890.2	3830.9	3675.3	3145.5	2841.7	2804.6	2741.6	2808.3	3038.0	3212.1	3312.2
20°	3830.9	3760.5	3582.6	2997.2	2756.4	2723.1	2693.4	2993.6	3167.7	3230.7	3286.2
22.5°	3760.5	3686.4	3456.6	2893.6	2667.6	2641.6	2660.1	3097.3	3167.7	3212.1	3260.3
25°	3667.9	3604.9	3308.5	2812.1	2597.2	2567.5	2637.9	3086.2	3127.0	3138.1	3234.4
27.5°	3582.6	3501.1	3152.9	2737.9	2511.9	2500.8	2656.4	3038.0	3067.7	3078.7	3182.5
30°	3478.9	3356.6	2978.7	2660.1	2423.0	2419.3	2660.1	2978.7	2971.3	3001.0	3104.7
32.5°	3371.5	3141.7	2782.3	2563.8	2337.8	2334.1	2634.2	2889.8	2882.4	2923.2	3001.0
35°	3271.5	2975.1	2515.7	2452.7	2230.4	2234.0	2571.2	2786.1	2789.8	2826.8	2875.0
37.5°	3167.7	2830.6	2222.9	2330.4	2126.6	2126.6	2485.9	2689.8	2682.3	2693.4	2760.2
40°	3045.5	2604.6	1963.6	2171.0	2030.3	2019.2	2382.3	2586.1	2560.1	2556.4	2649.1
42.5°	2915.7	2356.3	1771.0	1959.9	1919.1	1904.3	2256.3	2460.1	2411.9	2423.0	2541.6
45°	2775.0	2289.7	1622.7	1656.1	1804.3	1793.1	2119.2	2315.5	2282.2	2311.9	2434.2
47.5°	2634.2	2156.3	1574.6	1374.5	1682.0	1678.4	1967.3	2174.8	2156.3	2185.9	2315.5
50°	2441.5	2008.0	1570.9	1178.2	1545.0	1559.7	1785.8	2037.7	2037.7	2063.6	2200.7
52.5°	2193.3	1826.5	1426.4	1067.0	1385.6	1430.1	1626.5	1919.1	1926.5	1952.5	2074.8
55°	1967.3	1637.6	1322.6	981.8	1196.7	1293.0	1470.9	1796.9	1811.7	1837.6	1948.8
57.5°	1759.9	1363.4	1300.5	881.8	1022.6	1115.2	1333.7	1678.4	1685.7	1708.0	1815.4
60°	1537.5	985.5	1193.0	774.3	870.7	941.1	1207.8	1537.5	1563.5	1578.3	1670.9
62.5°	1285.6	715.1	1081.8	700.2	796.6	811.4	1104.1	1404.1	1437.5	1448.6	1504.2
65°	915.1	600.2	918.8	637.3	718.8	722.4	992.9	1267.1	1296.7	1315.2	1356.0
67.5°	618.7	489.0	700.2	577.9	659.4	663.2	885.4	1107.7	1148.5	1163.3	1189.3
70°	429.8	326.0	518.7	515.0	592.8	600.2	770.7	963.3	1000.3	1011.4	1026.2
72.5°	314.9	263.0	429.8	463.1	522.4	529.8	652.1	800.3	837.3	848.4	855.8
75°	240.8	277.9	348.3	403.8	444.5	448.3	533.5	652.1	678.0	685.4	689.1
77.5°	192.6	259.4	255.6	326.0	363.0	355.7	418.7	503.9	526.1	526.1	526.1
80°	144.5	203.8	192.6	233.4	266.8	259.4	300.1	359.4	366.8	374.2	370.5
82.5°	107.4	129.6	129.6	148.2	177.9	170.4	200.0	233.4	233.4	233.4	240.8
85°	66.6	74.1	59.3	77.8	100.0	96.4	111.1	126.0	129.6	129.6	122.3
87.5°	40.8	33.4	18.5	29.6	44.5	44.5	51.9	55.6	51.9	51.9	51.9
90°	45.5	31.5	17.5	31.5	45.5	49.0	76.9	114.2	132.9	118.1	88.6
92.5°	307.8	188.8	69.9	188.8	307.8	337.5	474.6	657.2	748.5	656.0	471.0
95°	603.2	385.5	167.9	385.5	603.2	657.6	1167.7	1847.9	2188.0	1952.4	1481.4
97.5°	674.3	482.3	290.3	482.3	674.3	722.3	1572.9	2707.0	3274.0	3125.2	2827.5
100°	733.0	558.9	384.7	558.9	733.0	776.6	1720.4	2978.8	3608.1	3618.9	3640.7
102.5°	790.1	627.7	465.2	627.7	790.1	830.8	1788.0	3064.3	3702.6	3892.2	4271.5
105°	876.8	739.3	601.7	739.3	876.8	911.2	1838.2	3074.1	3692.0	4117.2	4967.6
107.5°	998.1	869.8	741.6	869.8	998.1	1030.1	1847.4	2937.2	3482.2	4075.2	5261.4
110°	1067.6	951.8	836.0	951.8	1067.6	1096.6	1833.5	2816.0	3307.3	3970.4	5296.4



TEST NUMBER: P936029

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1149.5	1039.1	928.7	1039.1	1149.5	1177.1	1834.1	2710.1	3148.1	3826.7	5183.9
115°	1272.3	1170.4	1068.6	1170.4	1272.3	1297.7	1851.0	2588.7	2957.5	3611.2	4918.6
117.5°	1391.8	1299.2	1206.8	1299.2	1391.8	1414.9	1885.3	2512.6	2826.3	3416.3	4596.2
120°	1461.3	1374.3	1287.2	1374.3	1461.3	1483.1	1913.3	2487.0	2773.8	3312.9	4391.0
122.5°	1541.6	1453.7	1365.9	1453.7	1541.6	1563.6	1953.6	2473.6	2733.6	3219.0	4189.9
125°	1646.8	1566.7	1486.6	1566.7	1646.8	1666.8	2007.8	2462.6	2689.9	3102.3	3927.0
127.5°	1746.2	1665.4	1584.5	1665.4	1746.2	1766.4	2062.0	2456.1	2653.2	3007.2	3715.4
130°	1811.1	1724.1	1637.0	1724.1	1811.1	1832.9	2101.6	2460.0	2639.1	2954.3	3584.8
132.5°	1865.3	1778.3	1691.3	1778.3	1865.3	1887.1	2133.7	2462.5	2626.9	2909.1	3473.5
135°	1930.3	1850.9	1771.6	1850.9	1930.3	1950.1	2168.7	2460.2	2606.0	2842.3	3314.8
137.5°	2010.9	1932.4	1853.9	1932.4	2010.9	2030.6	2221.1	2475.3	2602.4	2802.2	3201.7
140°	2066.7	1994.4	1922.1	1994.4	2066.7	2084.8	2253.2	2477.8	2590.2	2762.7	3107.9
142.5°	2108.2	2041.4	1974.6	2041.4	2108.2	2125.0	2280.0	2486.8	2590.2	2741.8	3044.9
145°	2171.6	2113.4	2055.0	2113.4	2171.6	2186.2	2315.0	2486.8	2572.7	2696.6	2944.6
147.5°	2248.9	2192.2	2135.4	2192.2	2248.9	2263.1	2366.3	2503.9	2572.7	2670.3	2865.3
150°	2290.6	2239.3	2188.0	2239.3	2290.6	2303.4	2393.1	2512.9	2572.7	2655.1	2819.9
152.5°	2319.8	2281.1	2242.2	2281.1	2319.8	2329.6	2410.6	2518.7	2572.7	2643.1	2783.7
155°	2380.1	2351.4	2322.7	2351.4	2380.1	2387.3	2449.1	2531.5	2572.7	2628.7	2740.7
157.5°	2438.0	2410.0	2382.1	2410.0	2438.0	2445.0	2487.5	2544.3	2572.7	2616.2	2703.3
160°	2465.8	2444.1	2422.3	2444.1	2465.8	2471.3	2505.1	2550.2	2572.7	2610.0	2684.6
162.5°	2495.1	2478.8	2462.5	2478.8	2495.1	2499.2	2523.7	2556.3	2572.7	2604.2	2667.2
165°	2535.8	2521.0	2506.2	2521.0	2535.8	2539.5	2550.5	2565.3	2572.7	2595.2	2640.3
167.5°	2560.4	2553.5	2546.5	2553.5	2560.4	2562.2	2571.6	2584.0	2590.2	2604.9	2634.5
170°	2586.7	2579.7	2572.7	2579.7	2586.7	2588.5	2589.0	2589.8	2590.2	2604.9	2634.5
172.5°	2589.8	2588.2	2586.7	2588.2	2589.8	2590.2	2590.2	2590.2	2590.2	2601.8	2625.2
175°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2600.7	2593.7	2590.2	2597.5	2612.3
177.5°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2601.8	2596.4	2593.7	2599.5	2611.2
180°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0



TEST NUMBER: P936029

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3779.0	3767.9	3782.7	3741.9	3782.7	3767.9	3779.0	3804.9	3782.7	3797.5	3812.4
5°	3315.9	3297.4	3238.1	3190.0	3238.1	3297.4	3315.9	3393.7	3430.7	3497.4	3586.4
7.5°	2964.0	2949.1	2934.3	2904.6	2934.3	2949.1	2964.0	2986.1	3023.2	3082.5	3149.2
10°	2886.1	2889.8	2912.1	2908.3	2912.1	2889.8	2886.1	2878.7	2867.6	2878.7	2919.5
12.5°	3086.2	3119.5	3241.7	3234.4	3241.7	3119.5	3086.2	2938.0	2838.0	2819.4	2826.8
15°	3315.9	3327.0	3353.0	3356.6	3353.0	3327.0	3315.9	3256.6	2956.5	2826.8	2786.1
17.5°	3338.1	3341.9	3360.4	3360.4	3360.4	3341.9	3338.1	3312.2	3212.1	3038.0	2808.3
20°	3319.6	3327.0	3364.0	3371.5	3364.0	3327.0	3319.6	3286.2	3230.7	3167.7	2993.6
22.5°	3312.2	3327.0	3356.6	3353.0	3356.6	3327.0	3312.2	3260.3	3212.1	3167.7	3097.3
25°	3275.1	3275.1	3278.9	3282.5	3278.9	3275.1	3275.1	3234.4	3138.1	3127.0	3086.2
27.5°	3197.3	3204.7	3227.0	3223.2	3227.0	3204.7	3197.3	3182.5	3078.7	3067.7	3038.0
30°	3127.0	3119.5	3101.0	3086.2	3101.0	3119.5	3127.0	3104.7	3001.0	2971.3	2978.7
32.5°	3008.4	2989.8	2971.3	2960.2	2971.3	2989.8	3008.4	3001.0	2923.2	2882.4	2889.8
35°	2867.6	2871.3	2867.6	2856.5	2867.6	2871.3	2867.6	2875.0	2826.8	2789.8	2786.1
37.5°	2767.6	2775.0	2771.3	2756.4	2771.3	2775.0	2767.6	2760.2	2693.4	2682.3	2689.8
40°	2663.8	2667.6	2663.8	2652.7	2663.8	2667.6	2663.8	2649.1	2556.4	2560.1	2586.1
42.5°	2563.8	2560.1	2548.9	2541.6	2548.9	2560.1	2563.8	2541.6	2423.0	2411.9	2460.1
45°	2448.9	2452.7	2430.4	2419.3	2430.4	2452.7	2448.9	2434.2	2311.9	2282.2	2315.5
47.5°	2334.1	2334.1	2315.5	2304.4	2315.5	2334.1	2334.1	2315.5	2185.9	2156.3	2174.8
50°	2211.8	2208.1	2182.2	2178.5	2182.2	2208.1	2211.8	2200.7	2063.6	2037.7	2037.7
52.5°	2071.0	2071.0	2074.8	2082.2	2074.8	2071.0	2071.0	2074.8	1952.5	1926.5	1919.1
55°	1948.8	1952.5	1978.4	1985.8	1978.4	1952.5	1948.8	1948.8	1837.6	1811.7	1796.9
57.5°	1822.8	1822.8	1841.4	1841.4	1841.4	1822.8	1822.8	1815.4	1708.0	1685.7	1678.4
60°	1678.4	1685.7	1700.5	1696.9	1700.5	1685.7	1678.4	1670.9	1578.3	1563.5	1537.5
62.5°	1526.4	1533.9	1537.5	1530.1	1537.5	1533.9	1526.4	1504.2	1448.6	1437.5	1404.1
65°	1367.1	1374.5	1378.2	1370.8	1378.2	1374.5	1367.1	1356.0	1315.2	1296.7	1267.1
67.5°	1204.1	1200.3	1196.7	1211.5	1196.7	1200.3	1204.1	1189.3	1163.3	1148.5	1107.7
70°	1037.3	1037.3	1033.7	1041.1	1033.7	1037.3	1037.3	1026.2	1011.4	1000.3	963.3
72.5°	859.6	855.8	870.7	859.6	870.7	855.8	859.6	855.8	848.4	837.3	800.3
75°	685.4	692.8	685.4	696.5	685.4	692.8	685.4	689.1	685.4	678.0	652.1
77.5°	522.4	529.8	522.4	522.4	522.4	529.8	522.4	526.1	526.1	526.1	503.9
80°	370.5	366.8	366.8	363.0	366.8	366.8	370.5	370.5	374.2	366.8	359.4
82.5°	237.1	233.4	233.4	240.8	233.4	233.4	237.1	240.8	233.4	233.4	233.4
85°	129.6	133.4	126.0	126.0	126.0	133.4	129.6	122.3	129.6	129.6	126.0
87.5°	48.1	44.5	44.5	44.5	44.5	44.5	48.1	51.9	51.9	51.9	55.6
90°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	88.6	118.1	132.9	114.2
92.5°	332.3	319.1	266.2	213.4	266.2	319.1	332.3	471.0	656.0	748.5	657.2
95°	1128.1	1088.1	927.9	767.8	927.9	1088.1	1128.1	1481.4	1952.4	2188.0	1847.9
97.5°	2604.2	2528.0	2223.3	1918.6	2223.3	2528.0	2604.2	2827.5	3125.2	3274.0	2707.0
100°	3657.0	3566.3	3203.3	2840.3	3203.3	3566.3	3657.0	3640.7	3618.9	3608.1	2978.8
102.5°	4556.0	4478.3	4167.4	3856.4	4167.4	4478.3	4556.0	4271.5	3892.2	3702.6	3064.3
105°	5605.3	5563.6	5396.5	5229.4	5396.5	5563.6	5605.3	4967.6	4117.2	3692.0	3074.1
107.5°	6151.0	6161.1	6201.6	6242.0	6201.6	6161.1	6151.0	5261.4	4075.2	3482.2	2937.2
110°	6290.9	6334.5	6508.6	6682.8	6508.6	6334.5	6290.9	5296.4	3970.4	3307.3	2816.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6201.8	6268.6	6536.0	6803.4	6536.0	6268.6	6201.8	5183.9	3826.7	3148.1	2710.1
115°	5899.2	5991.9	6362.6	6733.4	6362.6	5991.9	5899.2	4918.6	3611.2	2957.5	2588.7
117.5°	5481.2	5584.0	5995.2	6406.4	5995.2	5584.0	5481.2	4596.2	3416.3	2826.3	2512.6
120°	5199.6	5299.5	5699.0	6098.6	5699.0	5299.5	5199.6	4391.0	3312.9	2773.8	2487.0
122.5°	4918.0	5016.6	5410.7	5804.8	5410.7	5016.6	4918.0	4189.9	3219.0	2733.6	2473.6
125°	4545.5	4636.2	4999.3	5362.3	4999.3	4636.2	4545.5	3927.0	3102.3	2689.9	2462.6
127.5°	4246.5	4323.0	4629.3	4935.5	4629.3	4323.0	4246.5	3715.4	3007.2	2653.2	2456.1
130°	4057.6	4128.3	4411.3	4694.2	4411.3	4128.3	4057.6	3584.8	2954.3	2639.1	2460.0
132.5°	3896.7	3960.1	4213.4	4466.8	4213.4	3960.1	3896.7	3473.5	2909.1	2626.9	2462.5
135°	3669.3	3723.9	3942.3	4160.8	3942.3	3723.9	3669.3	3314.8	2842.3	2606.0	2460.2
137.5°	3501.4	3546.1	3724.9	3903.6	3724.9	3546.1	3501.4	3201.7	2802.2	2602.4	2475.3
140°	3366.7	3408.5	3575.6	3742.7	3575.6	3408.5	3366.7	3107.9	2762.7	2590.2	2477.8
142.5°	3272.3	3308.3	3452.1	3595.8	3452.1	3308.3	3272.3	3044.9	2741.8	2590.2	2486.8
145°	3130.6	3157.8	3266.7	3375.5	3266.7	3157.8	3130.6	2944.6	2696.6	2572.7	2486.8
147.5°	3011.7	3034.2	3124.4	3214.5	3124.4	3034.2	3011.7	2865.3	2670.3	2572.7	2503.9
150°	2943.5	2961.7	3034.8	3107.9	3034.8	2961.7	2943.5	2819.9	2655.1	2572.7	2512.9
152.5°	2889.3	2903.1	2958.3	3013.4	2958.3	2903.1	2889.3	2783.7	2643.1	2572.7	2518.7
155°	2824.6	2833.7	2870.2	2906.7	2870.2	2833.7	2824.6	2740.7	2628.7	2572.7	2531.5
157.5°	2768.6	2775.0	2800.7	2826.3	2800.7	2775.0	2768.6	2703.3	2616.2	2572.7	2544.3
160°	2740.6	2744.3	2759.1	2773.8	2759.1	2744.3	2740.6	2684.6	2610.0	2572.7	2550.2
162.5°	2714.4	2717.8	2731.9	2745.9	2731.9	2717.8	2714.4	2667.2	2604.2	2572.7	2556.3
165°	2674.1	2677.8	2692.6	2707.4	2692.6	2677.8	2674.1	2640.3	2595.2	2572.7	2565.3
167.5°	2656.6	2658.2	2664.4	2670.6	2664.4	2658.2	2656.6	2634.5	2604.9	2590.2	2584.0
170°	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2634.5	2604.9	2590.2	2589.8
172.5°	2642.7	2641.3	2635.9	2630.4	2635.9	2641.3	2642.7	2625.2	2601.8	2590.2	2590.2
175°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2612.3	2597.5	2590.2	2593.7
177.5°	2619.9	2618.3	2612.1	2606.0	2612.1	2618.3	2619.9	2611.2	2599.5	2593.7	2596.4
180°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3867.9	3886.4	3897.5	3912.4	3949.4
5°	3719.8	3790.1	3812.4	3867.9	3934.6
7.5°	3393.7	3608.6	3667.9	3801.3	3904.9
10°	3078.7	3293.6	3397.4	3712.3	3867.9
12.5°	2919.5	3045.5	3115.8	3556.7	3816.0
15°	2819.4	2908.3	2960.2	3349.2	3756.8
17.5°	2741.6	2804.6	2841.7	3145.5	3675.3
20°	2693.4	2723.1	2756.4	2997.2	3582.6
22.5°	2660.1	2641.6	2667.6	2893.6	3456.6
25°	2637.9	2567.5	2597.2	2812.1	3308.5
27.5°	2656.4	2500.8	2511.9	2737.9	3152.9
30°	2660.1	2419.3	2423.0	2660.1	2978.7
32.5°	2634.2	2334.1	2337.8	2563.8	2782.3
35°	2571.2	2234.0	2230.4	2452.7	2515.7
37.5°	2485.9	2126.6	2126.6	2330.4	2222.9
40°	2382.3	2019.2	2030.3	2171.0	1963.6
42.5°	2256.3	1904.3	1919.1	1959.9	1771.0
45°	2119.2	1793.1	1804.3	1656.1	1622.7
47.5°	1967.3	1678.4	1682.0	1374.5	1574.6
50°	1785.8	1559.7	1545.0	1178.2	1570.9
52.5°	1626.5	1430.1	1385.6	1067.0	1426.4
55°	1470.9	1293.0	1196.7	981.8	1322.6
57.5°	1333.7	1115.2	1022.6	881.8	1300.5
60°	1207.8	941.1	870.7	774.3	1193.0
62.5°	1104.1	811.4	796.6	700.2	1081.8
65°	992.9	722.4	718.8	637.3	918.8
67.5°	885.4	663.2	659.4	577.9	700.2
70°	770.7	600.2	592.8	515.0	518.7
72.5°	652.1	529.8	522.4	463.1	429.8
75°	533.5	448.3	444.5	403.8	348.3
77.5°	418.7	355.7	363.0	326.0	255.6
80°	300.1	259.4	266.8	233.4	192.6
82.5°	200.0	170.4	177.9	148.2	129.6
85°	111.1	96.4	100.0	77.8	59.3
87.5°	51.9	44.5	44.5	29.6	18.5
90°	76.9	49.0	45.5	31.5	17.5
92.5°	474.6	337.5	307.8	188.8	69.9
95°	1167.7	657.6	603.2	385.5	167.9
97.5°	1572.9	722.3	674.3	482.3	290.3
100°	1720.4	776.6	733.0	558.9	384.7
102.5°	1788.0	830.8	790.1	627.7	465.2
105°	1838.2	911.2	876.8	739.3	601.7
107.5°	1847.4	1030.1	998.1	869.8	741.6
110°	1833.5	1096.6	1067.6	951.8	836.0



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CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1834.1	1177.1	1149.5	1039.1	928.7
115°	1851.0	1297.7	1272.3	1170.4	1068.6
117.5°	1885.3	1414.9	1391.8	1299.2	1206.8
120°	1913.3	1483.1	1461.3	1374.3	1287.2
122.5°	1953.6	1563.6	1541.6	1453.7	1365.9
125°	2007.8	1666.8	1646.8	1566.7	1486.6
127.5°	2062.0	1766.4	1746.2	1665.4	1584.5
130°	2101.6	1832.9	1811.1	1724.1	1637.0
132.5°	2133.7	1887.1	1865.3	1778.3	1691.3
135°	2168.7	1950.1	1930.3	1850.9	1771.6
137.5°	2221.1	2030.6	2010.9	1932.4	1853.9
140°	2253.2	2084.8	2066.7	1994.4	1922.1
142.5°	2280.0	2125.0	2108.2	2041.4	1974.6
145°	2315.0	2186.2	2171.6	2113.4	2055.0
147.5°	2366.3	2263.1	2248.9	2192.2	2135.4
150°	2393.1	2303.4	2290.6	2239.3	2188.0
152.5°	2410.6	2329.6	2319.8	2281.1	2242.2
155°	2449.1	2387.3	2380.1	2351.4	2322.7
157.5°	2487.5	2445.0	2438.0	2410.0	2382.1
160°	2505.1	2471.3	2465.8	2444.1	2422.3
162.5°	2523.7	2499.2	2495.1	2478.8	2462.5
165°	2550.5	2539.5	2535.8	2521.0	2506.2
167.5°	2571.6	2562.2	2560.4	2553.5	2546.5
170°	2589.0	2588.5	2586.7	2579.7	2572.7
172.5°	2590.2	2590.2	2589.8	2588.2	2586.7
175°	2600.7	2606.0	2606.0	2606.0	2606.0
177.5°	2601.8	2606.0	2606.0	2606.0	2606.0
180°	2606.0	2606.0	2606.0	2606.0	2606.0



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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	12.21	12.97	13.26	14.03	15.46	15.06	15.82	16.11	16.88	18.32
	3H	12.67	13.35	13.74	14.42	15.88	16.40	17.08	17.47	18.15	19.61
	4H	12.86	13.51	13.94	14.58	16.04	16.85	17.49	17.92	18.56	20.02
	6H	12.97	13.57	14.06	14.64	16.12	17.13	17.72	18.22	18.80	20.27
	8H	12.97	13.54	14.06	14.63	16.10	17.20	17.77	18.30	18.86	20.33
	12H	12.94	13.48	14.04	14.56	16.05	17.24	17.78	18.34	18.86	20.36
4H	2H	13.23	13.88	14.32	14.95	16.41	15.45	16.10	16.54	17.17	18.63
	3H	14.25	14.79	15.34	15.88	17.36	16.96	17.49	18.05	18.59	20.07
	4H	14.52	15.01	15.62	16.10	17.60	17.48	17.98	18.58	19.06	20.56
	6H	14.64	15.06	15.74	16.17	17.66	17.85	18.27	18.95	19.38	20.87
	8H	14.64	15.04	15.75	16.14	17.65	17.96	18.35	19.06	19.45	20.96
	12H	14.60	14.96	15.73	16.08	17.59	18.01	18.37	19.13	19.49	21.00
8H	4H	14.97	15.36	16.07	16.47	17.97	17.60	17.99	18.70	19.10	20.60
	6H	15.23	15.55	16.35	16.70	18.20	18.04	18.36	19.16	19.51	21.01
	8H	15.27	15.55	16.40	16.68	18.20	18.19	18.48	19.32	19.60	21.13
	12H	15.25	15.50	16.38	16.62	18.18	18.29	18.54	19.43	19.66	21.22
12H	4H	14.97	15.33	16.09	16.44	17.96	17.56	17.92	18.68	19.03	20.54
	6H	15.29	15.57	16.42	16.70	18.22	18.03	18.32	19.17	19.45	20.97
	8H	15.35	15.60	16.49	16.72	18.28	18.19	18.44	19.33	19.57	21.13