

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: P936128

Luminaire Tested: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

**Test Information**

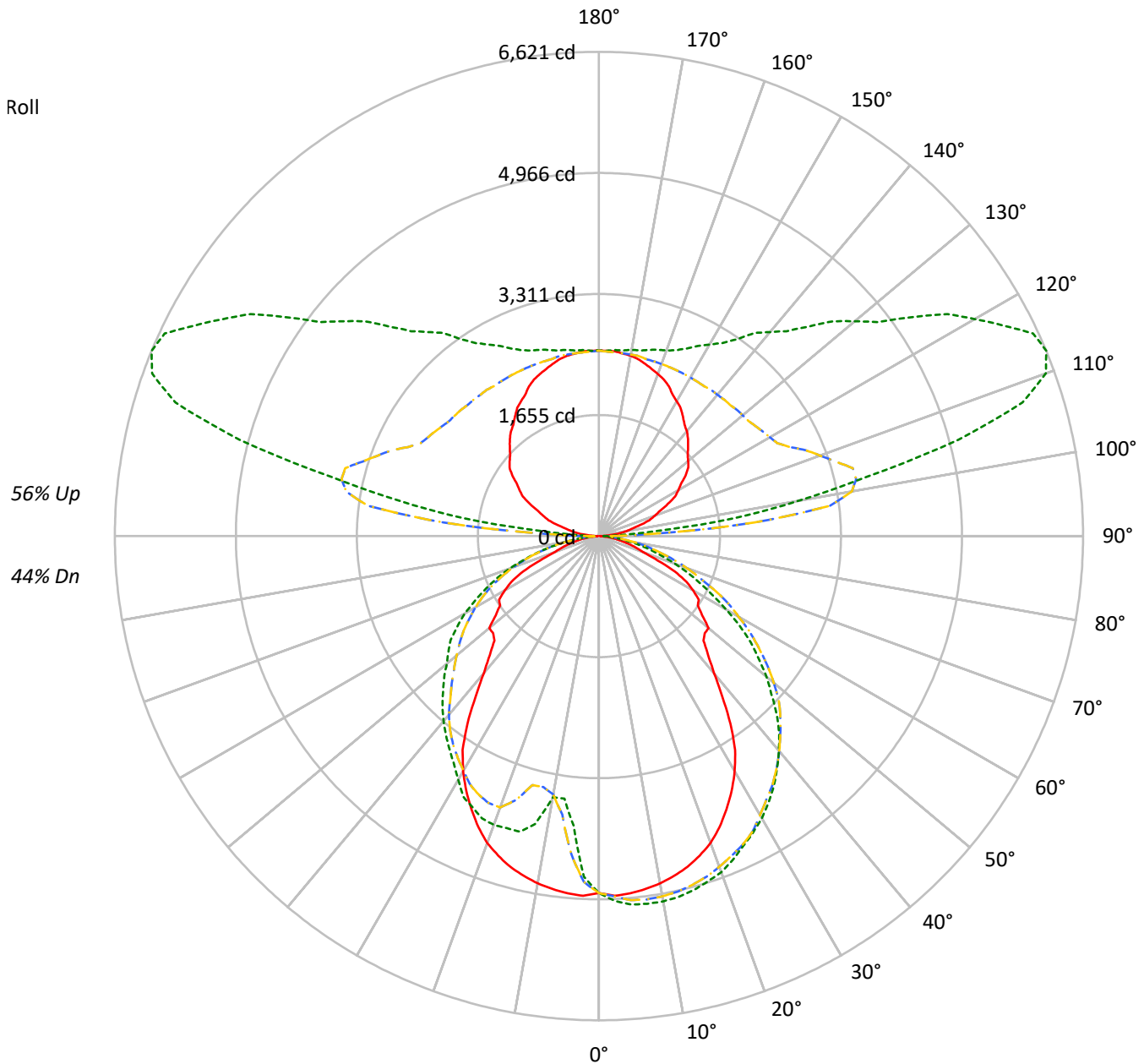
Test Method: LM-79-2019  
Report Number: P936128  
REPORT IS A COMBINATION OF REPORTS P933781 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29105.6 lumens  
Efficiency: N/A  
Efficacy: 116.6 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: General Diffuse  
  
Input Watts (W): 249.6  
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-125D-92765-1D-UNV-STD-W-12-4000K

### 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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	16	18	15	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	15098	15098	15098	15098
5°	15216	15240	15216	11984
10°	15120	15012	15120	10733
15°	14961	14687	14961	12264
20°	14654	14302	14654	12290
25°	14019	13740	14019	12029
30°	13197	13273	13197	11458
35°	11771	12683	11771	10829
40°	9814	11988	9814	10354
45°	8774	11175	8774	9808
50°	9329	10205	9329	9260
55°	8785	9160	8785	8943
60°	9068	7780	9068	8191
65°	8234	6432	8234	7189
70°	5716	5125	5716	6026
75°	5031	3789	5031	4537
80°	4084	2505	4084	2727
85°	2395	1327	2395	1128

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 13439 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.6	1.5
10°-20°	1251.0	4.3
20°-30°	1933.8	6.6
30°-40°	2308.6	7.9
40°-50°	2322.1	8.0
50°-60°	2020.5	6.9
60°-70°	1432.6	4.9
70°-80°	757.9	2.6
80°-90°	198.4	0.7
90°-100°	1236.2	4.2
100°-110°	3250.0	11.2
110°-120°	3369.9	11.6
120°-130°	2703.1	9.3
130°-140°	2121.0	7.3
140°-150°	1627.9	5.6
150°-160°	1172.4	4.0
160°-170°	717.3	2.5
170°-180°	242.3	0.8
0°-30°	3625.4	12.5
0°-40°	5934.0	20.4
0°-60°	10276.5	35.3
0°-90°	12665.4	43.5
90°-120°	7856.1	27.0
90°-150°	14308.1	49.2
90°-180°	16440.0	56.5
0°-180°	29105.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4881	4881	4881	4881	4881	
5°	4904	5057	4904	3976	4904	465
15°	4682	5010	4682	4184	4682	1317
25°	4124	4673	4124	4092	4124	1893
35°	3136	4170	3136	3560	3136	1940
45°	2023	3436	2023	3015	2023	1620
55°	1648	2535	1648	2475	1648	1515
65°	1145	1529	1145	1709	1145	1095
75°	434	725	434	868	434	456
85°	74	185	74	157	74	100
90°	17	65	17	65	17	17
95°	163	747	163	747	163	181
105°	586	5089	586	5089	586	621
115°	1040	6553	1040	6553	1040	1027
125°	1447	5218	1447	5218	1447	1284
135°	1724	4049	1724	4049	1724	1334
145°	2000	3285	2000	3285	2000	1253
155°	2260	2829	2260	2829	2260	1039
165°	2439	2635	2439	2635	2439	688
175°	2536	2553	2536	2553	2536	241
180°	2536	2536	2536	2536	2536	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1
2.5°	4922.7	4922.7	4950.3	4959.6	4959.6	4945.7	4931.9	4945.7	4987.3	5001.2	4996.5
5°	4904.1	4941.1	4991.9	5001.2	5010.4	5005.7	4996.5	5005.7	5051.9	5061.2	5065.8
7.5°	4867.2	4936.5	5001.2	5015.0	5028.8	5015.0	5010.4	5019.6	5065.8	5075.0	5075.0
10°	4821.1	4918.0	4991.9	5001.2	5015.0	5001.2	5001.2	5019.6	5065.8	5075.0	5079.7
12.5°	4756.4	4890.3	4959.6	4968.8	4987.3	4982.6	4978.1	4996.5	5042.7	5051.9	5051.9
15°	4682.5	4839.5	4904.1	4913.4	4945.7	4936.5	4936.5	4955.0	5005.7	5019.6	5015.0
17.5°	4580.9	4774.9	4848.7	4862.6	4885.7	4881.1	4885.7	4904.1	4950.3	4959.6	4964.2
20°	4465.5	4687.1	4774.9	4788.7	4811.8	4811.8	4811.8	4834.9	4881.1	4899.6	4899.6
22.5°	4308.5	4594.8	4687.1	4696.4	4724.1	4724.1	4733.3	4765.6	4807.2	4811.8	4811.8
25°	4123.7	4493.2	4571.7	4599.4	4627.1	4641.0	4654.8	4673.3	4687.1	4682.5	4687.1
27.5°	3929.8	4363.9	4465.5	4484.0	4520.9	4534.7	4553.2	4557.8	4562.5	4576.3	4567.1
30°	3712.8	4183.8	4336.1	4354.6	4414.7	4423.9	4405.5	4414.7	4437.8	4447.0	4456.2
32.5°	3468.0	3916.0	4202.3	4243.8	4299.2	4271.6	4266.9	4280.8	4317.7	4317.7	4327.0
35°	3135.5	3708.1	4077.5	4114.5	4156.0	4123.7	4142.2	4146.9	4170.0	4183.8	4179.1
37.5°	2770.8	3528.0	3948.3	3976.0	4008.3	3966.7	3994.5	4008.3	4026.8	4017.5	4017.5
40°	2447.5	3246.3	3795.9	3814.4	3842.0	3809.7	3837.5	3846.7	3856.0	3846.7	3842.0
42.5°	2207.3	2936.9	3634.3	3657.4	3638.9	3661.9	3671.2	3689.7	3675.8	3657.4	3657.4
45°	2022.6	2853.8	3458.8	3486.5	3458.8	3495.7	3509.6	3509.6	3468.0	3458.8	3454.2
47.5°	1962.6	2687.6	3283.3	3283.3	3269.4	3315.6	3338.7	3306.3	3264.9	3251.0	3251.0
50°	1958.0	2502.9	3043.2	3024.7	3089.3	3144.8	3121.7	3089.3	3057.0	3006.3	3006.3
52.5°	1777.9	2276.6	2733.7	2803.0	2904.7	2936.9	2900.0	2867.7	2812.2	2789.2	2770.8
55°	1648.5	2041.1	2452.1	2590.6	2696.8	2738.4	2669.1	2636.8	2553.7	2539.8	2530.6
57.5°	1620.9	1699.4	2193.5	2369.0	2498.2	2493.7	2452.1	2392.1	2322.8	2308.9	2304.3
60°	1487.0	1228.4	1916.4	2124.2	2258.2	2244.3	2207.3	2151.9	2087.3	2078.1	2068.8
62.5°	1348.4	891.3	1602.4	1837.9	2027.2	2022.6	1990.3	1907.1	1861.0	1837.9	1819.5
65°	1145.2	748.1	1140.6	1528.6	1801.0	1810.2	1741.0	1680.9	1630.1	1602.4	1597.8
67.5°	872.8	609.5	771.2	1274.5	1584.0	1574.7	1487.0	1459.2	1394.6	1380.7	1353.0
70°	646.5	406.3	535.7	1034.4	1371.5	1348.4	1279.1	1246.8	1186.8	1154.4	1136.0
72.5°	535.7	327.8	392.5	803.5	1154.4	1126.8	1066.7	1029.8	979.0	951.3	932.8
75°	434.1	346.3	300.2	595.7	937.4	918.9	863.5	826.6	785.0	748.1	752.7
77.5°	318.6	323.3	240.1	438.7	743.4	715.8	683.4	637.3	618.8	581.9	581.9
80°	240.1	254.0	180.1	300.2	535.7	535.7	507.9	475.6	443.4	424.8	424.8
82.5°	161.6	161.6	133.9	189.3	364.9	350.9	332.5	323.3	304.8	295.5	295.5
85°	73.9	92.3	83.1	115.4	198.6	207.8	207.8	198.6	193.9	184.7	189.3
87.5°	23.1	41.6	50.8	64.7	101.6	106.2	110.8	110.8	110.8	115.4	115.4
90°	17.0	30.7	44.3	47.7	74.9	111.2	129.4	115.0	86.2	64.7	64.7
92.5°	68.0	183.7	299.5	328.5	461.8	639.6	728.4	638.4	458.4	323.4	310.6
95°	163.4	375.1	587.0	639.9	1136.4	1798.4	2129.3	1900.0	1441.7	1097.8	1058.9
97.5°	282.5	469.4	656.2	703.0	1530.7	2634.4	3186.2	3041.4	2751.7	2534.3	2460.2
100°	374.4	543.9	713.3	755.7	1674.3	2898.9	3511.3	3521.8	3543.0	3559.0	3470.6
102.5°	452.7	610.8	768.9	808.5	1740.0	2982.2	3603.3	3787.8	4157.0	4433.8	4358.2
105°	585.5	719.4	853.3	886.8	1788.9	2991.6	3593.0	4006.8	4834.4	5455.0	5414.3
107.5°	721.7	846.5	971.3	1002.5	1797.9	2858.4	3388.8	3965.9	5120.3	5986.0	5995.9
110°	813.6	926.3	1039.0	1067.2	1784.3	2740.5	3218.6	3863.9	5154.4	6122.2	6164.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	903.8	1011.2	1118.7	1145.5	1784.9	2637.4	3063.7	3724.1	5044.8	6035.4	6100.5
115°	1040.0	1139.0	1238.2	1262.9	1801.4	2519.2	2878.2	3514.4	4786.7	5741.0	5831.2
117.5°	1174.4	1264.4	1354.4	1376.9	1834.7	2445.2	2750.5	3324.6	4473.0	5334.2	5434.3
120°	1252.7	1337.4	1422.1	1443.3	1862.0	2420.3	2699.4	3224.0	4273.2	5060.1	5157.4
122.5°	1329.3	1414.8	1500.3	1521.6	1901.2	2407.3	2660.3	3132.7	4077.5	4786.1	4882.0
125°	1446.8	1524.6	1602.6	1622.1	1954.0	2396.5	2617.8	3019.1	3821.7	4423.6	4511.9
127.5°	1542.0	1620.7	1699.4	1719.0	2006.7	2390.3	2582.0	2926.6	3615.7	4132.6	4207.1
130°	1593.1	1677.8	1762.5	1783.7	2045.2	2394.0	2568.4	2875.1	3488.6	3948.7	4017.6
132.5°	1645.9	1730.6	1815.3	1836.5	2076.4	2396.4	2556.4	2831.1	3380.3	3792.2	3853.9
135°	1724.1	1801.3	1878.5	1897.8	2110.5	2394.3	2536.1	2766.0	3225.9	3570.9	3624.0
137.5°	1804.2	1880.6	1957.0	1976.1	2161.6	2408.9	2532.6	2727.0	3115.9	3407.5	3451.0
140°	1870.6	1940.9	2011.3	2028.9	2192.8	2411.4	2520.7	2688.6	3024.5	3276.4	3317.1
142.5°	1921.6	1986.6	2051.7	2068.0	2218.9	2420.1	2520.7	2668.2	2963.2	3184.5	3219.6
145°	1999.9	2056.7	2113.4	2127.5	2252.9	2420.1	2503.7	2624.3	2865.6	3046.6	3073.1
147.5°	2078.2	2133.4	2188.6	2202.4	2302.8	2436.7	2503.7	2598.7	2788.5	2930.9	2952.9
150°	2129.3	2179.2	2229.2	2241.6	2328.9	2445.5	2503.7	2583.9	2744.3	2864.5	2882.3
152.5°	2182.0	2219.9	2257.6	2267.1	2346.0	2451.1	2503.7	2572.2	2709.1	2811.8	2825.2
155°	2260.4	2288.4	2316.3	2323.3	2383.4	2463.6	2503.7	2558.2	2667.1	2748.8	2757.7
157.5°	2318.2	2345.4	2372.6	2379.4	2420.8	2476.0	2503.7	2546.1	2630.8	2694.3	2700.6
160°	2357.3	2378.5	2399.7	2405.0	2437.9	2481.8	2503.7	2540.0	2612.6	2667.1	2670.7
162.5°	2396.4	2412.4	2428.2	2432.2	2456.0	2487.8	2503.7	2534.3	2595.6	2641.6	2645.0
165°	2439.0	2453.4	2467.8	2471.4	2482.1	2496.5	2503.7	2525.6	2569.5	2602.4	2606.0
167.5°	2478.2	2485.0	2491.8	2493.5	2502.6	2514.7	2520.7	2535.1	2563.8	2585.4	2586.9
170°	2503.7	2510.5	2517.3	2519.1	2519.6	2520.3	2520.7	2535.1	2563.8	2585.4	2585.4
172.5°	2517.3	2518.8	2520.3	2520.7	2520.7	2520.7	2520.7	2532.1	2554.8	2571.8	2570.5
175°	2536.1	2536.1	2536.1	2536.1	2531.0	2524.2	2520.7	2527.9	2542.3	2553.1	2553.1
177.5°	2536.1	2536.1	2536.1	2536.1	2532.1	2526.8	2524.2	2529.8	2541.2	2549.6	2548.1
180°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1
2.5°	5005.7	4991.9	5005.7	4996.5	5001.2	4987.3	4945.7	4931.9	4945.7	4959.6	4959.6
5°	5065.8	5056.6	5065.8	5065.8	5061.2	5051.9	5005.7	4996.5	5005.7	5010.4	5001.2
7.5°	5084.2	5070.4	5084.2	5075.0	5075.0	5065.8	5019.6	5010.4	5015.0	5028.8	5015.0
10°	5084.2	5070.4	5084.2	5079.7	5075.0	5065.8	5019.6	5001.2	5001.2	5015.0	5001.2
12.5°	5061.2	5051.9	5061.2	5051.9	5051.9	5042.7	4996.5	4978.1	4982.6	4987.3	4968.8
15°	5024.2	5010.4	5024.2	5015.0	5019.6	5005.7	4955.0	4936.5	4936.5	4945.7	4913.4
17.5°	4968.8	4950.3	4968.8	4964.2	4959.6	4950.3	4904.1	4885.7	4881.1	4885.7	4862.6
20°	4904.1	4890.3	4904.1	4899.6	4899.6	4881.1	4834.9	4811.8	4811.8	4811.8	4788.7
22.5°	4802.6	4788.7	4802.6	4811.8	4811.8	4807.2	4765.6	4733.3	4724.1	4724.1	4696.4
25°	4687.1	4673.3	4687.1	4687.1	4682.5	4687.1	4673.3	4654.8	4641.0	4627.1	4599.4
27.5°	4576.3	4567.1	4576.3	4567.1	4576.3	4562.5	4557.8	4553.2	4534.7	4520.9	4484.0
30°	4465.5	4456.2	4465.5	4456.2	4447.0	4437.8	4414.7	4405.5	4423.9	4414.7	4354.6
32.5°	4327.0	4317.7	4327.0	4327.0	4317.7	4317.7	4280.8	4266.9	4271.6	4299.2	4243.8
35°	4183.8	4170.0	4183.8	4179.1	4183.8	4170.0	4146.9	4142.2	4123.7	4156.0	4114.5
37.5°	4017.5	4003.7	4017.5	4017.5	4017.5	4026.8	4008.3	3994.5	3966.7	4008.3	3976.0
40°	3846.7	3828.2	3846.7	3842.0	3846.7	3856.0	3846.7	3837.5	3809.7	3842.0	3814.4
42.5°	3652.7	3648.1	3652.7	3657.4	3657.4	3675.8	3689.7	3671.2	3661.9	3638.9	3657.4
45°	3444.9	3435.7	3444.9	3454.2	3458.8	3468.0	3509.6	3509.6	3495.7	3458.8	3486.5
47.5°	3223.3	3200.2	3223.3	3251.0	3251.0	3264.9	3306.3	3338.7	3315.6	3269.4	3283.3
50°	2987.8	2992.3	2987.8	3006.3	3006.3	3057.0	3089.3	3121.7	3144.8	3089.3	3024.7
52.5°	2756.8	2752.3	2756.8	2770.8	2789.2	2812.2	2867.7	2900.0	2936.9	2904.7	2803.0
55°	2526.0	2535.2	2526.0	2530.6	2539.8	2553.7	2636.8	2669.1	2738.4	2696.8	2590.6
57.5°	2295.1	2281.2	2295.1	2304.3	2308.9	2322.8	2392.1	2452.1	2493.7	2498.2	2369.0
60°	2027.2	2008.8	2027.2	2068.8	2078.1	2087.3	2151.9	2207.3	2244.3	2258.2	2124.2
62.5°	1791.7	1759.4	1791.7	1819.5	1837.9	1861.0	1907.1	1990.3	2022.6	2027.2	1837.9
65°	1542.4	1528.6	1542.4	1597.8	1602.4	1630.1	1680.9	1741.0	1810.2	1801.0	1528.6
67.5°	1316.1	1316.1	1316.1	1353.0	1380.7	1394.6	1459.2	1487.0	1574.7	1584.0	1274.5
70°	1108.3	1103.7	1108.3	1136.0	1154.4	1186.8	1246.8	1279.1	1348.4	1371.5	1034.4
72.5°	909.7	905.1	909.7	932.8	951.3	979.0	1029.8	1066.7	1126.8	1154.4	803.5
75°	734.3	725.0	734.3	752.7	748.1	785.0	826.6	863.5	918.9	937.4	595.7
77.5°	563.3	563.3	563.3	581.9	581.9	618.8	637.3	683.4	715.8	743.4	438.7
80°	420.3	415.6	420.3	424.8	424.8	443.4	475.6	507.9	535.7	535.7	300.2
82.5°	295.5	286.3	295.5	295.5	295.5	304.8	323.3	332.5	350.9	364.9	189.3
85°	184.7	184.7	184.7	189.3	184.7	193.9	198.6	207.8	207.8	198.6	115.4
87.5°	120.1	115.4	120.1	115.4	115.4	110.8	110.8	110.8	106.2	101.6	64.7
90°	64.7	64.7	64.7	64.7	64.7	86.2	115.0	129.4	111.2	74.9	47.7
92.5°	259.1	207.7	259.1	310.6	323.4	458.4	638.4	728.4	639.6	461.8	328.5
95°	903.0	747.2	903.0	1058.9	1097.8	1441.7	1900.0	2129.3	1798.4	1136.4	639.9
97.5°	2163.7	1867.1	2163.7	2460.2	2534.3	2751.7	3041.4	3186.2	2634.4	1530.7	703.0
100°	3117.4	2764.1	3117.4	3470.6	3559.0	3543.0	3521.8	3511.3	2898.9	1674.3	755.7
102.5°	4055.6	3753.0	4055.6	4358.2	4433.8	4157.0	3787.8	3603.3	2982.2	1740.0	808.5
105°	5251.8	5089.1	5251.8	5414.3	5455.0	4834.4	4006.8	3593.0	2991.6	1788.9	886.8
107.5°	6035.3	6074.6	6035.3	5995.9	5986.0	5120.3	3965.9	3388.8	2858.4	1797.9	1002.5
110°	6334.1	6503.5	6334.1	6164.6	6122.2	5154.4	3863.9	3218.6	2740.5	1784.3	1067.2





TEST NUMBER: P936128

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6360.7	6621.0	6360.7	6100.5	6035.4	5044.8	3724.1	3063.7	2637.4	1784.9	1145.5
115°	6192.0	6552.8	6192.0	5831.2	5741.0	4786.7	3514.4	2878.2	2519.2	1801.4	1262.9
117.5°	5834.4	6234.6	5834.4	5434.3	5334.2	4473.0	3324.6	2750.5	2445.2	1834.7	1376.9
120°	5546.1	5935.0	5546.1	5157.4	5060.1	4273.2	3224.0	2699.4	2420.3	1862.0	1443.3
122.5°	5265.6	5649.1	5265.6	4882.0	4786.1	4077.5	3132.7	2660.3	2407.3	1901.2	1521.6
125°	4865.2	5218.5	4865.2	4511.9	4423.6	3821.7	3019.1	2617.8	2396.5	1954.0	1622.1
127.5°	4505.2	4803.2	4505.2	4207.1	4132.6	3615.7	2926.6	2582.0	2390.3	2006.7	1719.0
130°	4292.9	4568.3	4292.9	4017.6	3948.7	3488.6	2875.1	2568.4	2394.0	2045.2	1783.7
132.5°	4100.4	4347.0	4100.4	3853.9	3792.2	3380.3	2831.1	2556.4	2396.4	2076.4	1836.5
135°	3836.6	4049.2	3836.6	3624.0	3570.9	3225.9	2766.0	2536.1	2394.3	2110.5	1897.8
137.5°	3625.0	3798.9	3625.0	3451.0	3407.5	3115.9	2727.0	2532.6	2408.9	2161.6	1976.1
140°	3479.7	3642.4	3479.7	3317.1	3276.4	3024.5	2688.6	2520.7	2411.4	2192.8	2028.9
142.5°	3359.5	3499.4	3359.5	3219.6	3184.5	2963.2	2668.2	2520.7	2420.1	2218.9	2068.0
145°	3179.1	3285.0	3179.1	3073.1	3046.6	2865.6	2624.3	2503.7	2420.1	2252.9	2127.5
147.5°	3040.6	3128.3	3040.6	2952.9	2930.9	2788.5	2598.7	2503.7	2436.7	2302.8	2202.4
150°	2953.4	3024.5	2953.4	2882.3	2864.5	2744.3	2583.9	2503.7	2445.5	2328.9	2241.6
152.5°	2878.9	2932.6	2878.9	2825.2	2811.8	2709.1	2572.2	2503.7	2451.1	2346.0	2267.1
155°	2793.2	2828.8	2793.2	2757.7	2748.8	2667.1	2558.2	2503.7	2463.6	2383.4	2323.3
157.5°	2725.5	2750.5	2725.5	2700.6	2694.3	2630.8	2546.1	2503.7	2476.0	2420.8	2379.4
160°	2685.1	2699.4	2685.1	2670.7	2667.1	2612.6	2540.0	2503.7	2481.8	2437.9	2405.0
162.5°	2658.6	2672.2	2658.6	2645.0	2641.6	2595.6	2534.3	2503.7	2487.8	2456.0	2432.2
165°	2620.4	2634.8	2620.4	2606.0	2602.4	2569.5	2525.6	2503.7	2496.5	2482.1	2471.4
167.5°	2592.9	2599.0	2592.9	2586.9	2585.4	2563.8	2535.1	2520.7	2514.7	2502.6	2493.5
170°	2585.4	2585.4	2585.4	2585.4	2585.4	2563.8	2535.1	2520.7	2520.3	2519.6	2519.1
172.5°	2565.2	2559.9	2565.2	2570.5	2571.8	2554.8	2532.1	2520.7	2520.7	2520.7	2520.7
175°	2553.1	2553.1	2553.1	2553.1	2553.1	2542.3	2527.9	2520.7	2524.2	2531.0	2536.1
177.5°	2542.1	2536.1	2542.1	2548.1	2549.6	2541.2	2529.8	2524.2	2526.8	2532.1	2536.1
180°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1



TEST NUMBER: P936128

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1
2.5°	4950.3	4922.7	4922.7	4876.5	4858.0	4844.2	4821.1	4751.8	4733.3	4714.8	4742.6
5°	4991.9	4941.1	4904.1	4821.1	4751.8	4724.1	4636.3	4470.0	4359.3	4276.1	4230.0
7.5°	5001.2	4936.5	4867.2	4737.9	4571.7	4497.8	4230.0	3925.2	3842.0	3768.2	3722.0
10°	4991.9	4918.0	4821.1	4627.1	4234.5	4105.3	3837.5	3638.9	3588.1	3574.2	3588.1
12.5°	4959.6	4890.3	4756.4	4433.1	3883.6	3795.9	3638.9	3523.4	3514.2	3537.3	3661.9
15°	4904.1	4839.5	4682.5	4174.5	3689.7	3625.0	3514.2	3472.6	3523.4	3685.0	4059.1
17.5°	4848.7	4774.9	4580.9	3920.5	3541.9	3495.7	3417.2	3500.4	3786.6	4003.7	4128.4
20°	4774.9	4687.1	4465.5	3735.9	3435.7	3394.1	3357.2	3731.2	3948.3	4026.8	4096.0
22.5°	4687.1	4594.8	4308.5	3606.5	3324.9	3292.5	3315.6	3860.5	3948.3	4003.7	4063.7
25°	4571.7	4493.2	4123.7	3504.9	3237.1	3200.2	3287.9	3846.7	3897.4	3911.3	4031.4
27.5°	4465.5	4363.9	3929.8	3412.6	3130.9	3117.1	3311.0	3786.6	3823.6	3837.5	3966.7
30°	4336.1	4183.8	3712.8	3315.6	3020.1	3015.4	3315.6	3712.8	3703.5	3740.4	3869.8
32.5°	4202.3	3916.0	3468.0	3195.6	2913.8	2909.3	3283.3	3601.9	3592.7	3643.5	3740.4
35°	4077.5	3708.1	3135.5	3057.0	2779.9	2784.6	3204.8	3472.6	3477.3	3523.4	3583.4
37.5°	3948.3	3528.0	2770.8	2904.7	2650.7	2650.7	3098.6	3352.6	3343.4	3357.2	3440.3
40°	3795.9	3246.3	2447.5	2706.1	2530.6	2516.7	2969.3	3223.3	3190.9	3186.4	3301.8
42.5°	3634.3	2936.9	2207.3	2442.8	2392.1	2373.6	2812.2	3066.3	3006.3	3020.1	3167.8
45°	3458.8	2853.8	2022.6	2064.1	2248.9	2235.1	2641.4	2886.2	2844.6	2881.5	3033.9
47.5°	3283.3	2687.6	1962.6	1713.2	2096.5	2091.9	2452.1	2710.7	2687.6	2724.5	2886.2
50°	3043.2	2502.9	1958.0	1468.5	1925.6	1944.1	2225.8	2539.8	2539.8	2572.2	2743.0
52.5°	2733.7	2276.6	1777.9	1330.0	1727.0	1782.5	2027.2	2392.1	2401.3	2433.6	2586.0
55°	2452.1	2041.1	1648.5	1223.7	1491.5	1611.6	1833.3	2239.6	2258.2	2290.5	2429.0
57.5°	2193.5	1699.4	1620.9	1099.0	1274.5	1390.0	1662.5	2091.9	2101.2	2128.8	2262.7
60°	1916.4	1228.4	1487.0	965.1	1085.2	1173.0	1505.4	1916.4	1948.7	1967.2	2082.6
62.5°	1602.4	891.3	1348.4	872.8	992.9	1011.3	1376.1	1750.1	1791.7	1805.5	1874.9
65°	1140.6	748.1	1145.2	794.3	895.9	900.4	1237.6	1579.3	1616.2	1639.3	1690.1
67.5°	771.2	609.5	872.8	720.3	821.9	826.6	1103.7	1380.7	1431.5	1450.1	1482.3
70°	535.7	406.3	646.5	641.8	738.9	748.1	960.5	1200.6	1246.8	1260.7	1279.1
72.5°	392.5	327.8	535.7	577.3	651.1	660.4	812.8	997.4	1043.6	1057.5	1066.7
75°	300.2	346.3	434.1	503.3	554.2	558.8	664.9	812.8	845.1	854.3	858.9
77.5°	240.1	323.3	318.6	406.3	452.5	443.4	521.9	628.0	655.8	655.8	655.8
80°	180.1	254.0	240.1	290.9	332.5	323.3	374.0	447.9	457.2	466.4	461.8
82.5°	133.9	161.6	161.6	184.7	221.7	212.4	249.3	290.9	290.9	290.9	300.2
85°	83.1	92.3	73.9	97.0	124.7	120.1	138.5	157.0	161.6	161.6	152.4
87.5°	50.8	41.6	23.1	36.9	55.4	55.4	64.7	69.2	64.7	64.7	64.7
90°	44.3	30.7	17.0	30.7	44.3	47.7	74.9	111.2	129.4	115.0	86.2
92.5°	299.5	183.7	68.0	183.7	299.5	328.5	461.8	639.6	728.4	638.4	458.4
95°	587.0	375.1	163.4	375.1	587.0	639.9	1136.4	1798.4	2129.3	1900.0	1441.7
97.5°	656.2	469.4	282.5	469.4	656.2	703.0	1530.7	2634.4	3186.2	3041.4	2751.7
100°	713.3	543.9	374.4	543.9	713.3	755.7	1674.3	2898.9	3511.3	3521.8	3543.0
102.5°	768.9	610.8	452.7	610.8	768.9	808.5	1740.0	2982.2	3603.3	3787.8	4157.0
105°	853.3	719.4	585.5	719.4	853.3	886.8	1788.9	2991.6	3593.0	4006.8	4834.4
107.5°	971.3	846.5	721.7	846.5	971.3	1002.5	1797.9	2858.4	3388.8	3965.9	5120.3
110°	1039.0	926.3	813.6	926.3	1039.0	1067.2	1784.3	2740.5	3218.6	3863.9	5154.4



TEST NUMBER: P936128

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1118.7	1011.2	903.8	1011.2	1118.7	1145.5	1784.9	2637.4	3063.7	3724.1	5044.8
115°	1238.2	1139.0	1040.0	1139.0	1238.2	1262.9	1801.4	2519.2	2878.2	3514.4	4786.7
117.5°	1354.4	1264.4	1174.4	1264.4	1354.4	1376.9	1834.7	2445.2	2750.5	3324.6	4473.0
120°	1422.1	1337.4	1252.7	1337.4	1422.1	1443.3	1862.0	2420.3	2699.4	3224.0	4273.2
122.5°	1500.3	1414.8	1329.3	1414.8	1500.3	1521.6	1901.2	2407.3	2660.3	3132.7	4077.5
125°	1602.6	1524.6	1446.8	1524.6	1602.6	1622.1	1954.0	2396.5	2617.8	3019.1	3821.7
127.5°	1699.4	1620.7	1542.0	1620.7	1699.4	1719.0	2006.7	2390.3	2582.0	2926.6	3615.7
130°	1762.5	1677.8	1593.1	1677.8	1762.5	1783.7	2045.2	2394.0	2568.4	2875.1	3488.6
132.5°	1815.3	1730.6	1645.9	1730.6	1815.3	1836.5	2076.4	2396.4	2556.4	2831.1	3380.3
135°	1878.5	1801.3	1724.1	1801.3	1878.5	1897.8	2110.5	2394.3	2536.1	2766.0	3225.9
137.5°	1957.0	1880.6	1804.2	1880.6	1957.0	1976.1	2161.6	2408.9	2532.6	2727.0	3115.9
140°	2011.3	1940.9	1870.6	1940.9	2011.3	2028.9	2192.8	2411.4	2520.7	2688.6	3024.5
142.5°	2051.7	1986.6	1921.6	1986.6	2051.7	2068.0	2218.9	2420.1	2520.7	2668.2	2963.2
145°	2113.4	2056.7	1999.9	2056.7	2113.4	2127.5	2252.9	2420.1	2503.7	2624.3	2865.6
147.5°	2188.6	2133.4	2078.2	2133.4	2188.6	2202.4	2302.8	2436.7	2503.7	2598.7	2788.5
150°	2229.2	2179.2	2129.3	2179.2	2229.2	2241.6	2328.9	2445.5	2503.7	2583.9	2744.3
152.5°	2257.6	2219.9	2182.0	2219.9	2257.6	2267.1	2346.0	2451.1	2503.7	2572.2	2709.1
155°	2316.3	2288.4	2260.4	2288.4	2316.3	2323.3	2383.4	2463.6	2503.7	2558.2	2667.1
157.5°	2372.6	2345.4	2318.2	2345.4	2372.6	2379.4	2420.8	2476.0	2503.7	2546.1	2630.8
160°	2399.7	2378.5	2357.3	2378.5	2399.7	2405.0	2437.9	2481.8	2503.7	2540.0	2612.6
162.5°	2428.2	2412.4	2396.4	2412.4	2428.2	2432.2	2456.0	2487.8	2503.7	2534.3	2595.6
165°	2467.8	2453.4	2439.0	2453.4	2467.8	2471.4	2482.1	2496.5	2503.7	2525.6	2569.5
167.5°	2491.8	2485.0	2478.2	2485.0	2491.8	2493.5	2502.6	2514.7	2520.7	2535.1	2563.8
170°	2517.3	2510.5	2503.7	2510.5	2517.3	2519.1	2519.6	2520.3	2520.7	2535.1	2563.8
172.5°	2520.3	2518.8	2517.3	2518.8	2520.3	2520.7	2520.7	2520.7	2520.7	2532.1	2554.8
175°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2531.0	2524.2	2520.7	2527.9	2542.3
177.5°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2532.1	2526.8	2524.2	2529.8	2541.2
180°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1



TEST NUMBER: P936128  
 CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1
2.5°	4710.2	4696.4	4714.8	4664.1	4714.8	4696.4	4710.2	4742.6	4714.8	4733.3	4751.8
5°	4133.0	4109.9	4036.0	3976.0	4036.0	4109.9	4133.0	4230.0	4276.1	4359.3	4470.0
7.5°	3694.3	3675.8	3657.4	3620.4	3657.4	3675.8	3694.3	3722.0	3768.2	3842.0	3925.2
10°	3597.3	3601.9	3629.6	3625.0	3629.6	3601.9	3597.3	3588.1	3574.2	3588.1	3638.9
12.5°	3846.7	3888.2	4040.6	4031.4	4040.6	3888.2	3846.7	3661.9	3537.3	3514.2	3523.4
15°	4133.0	4146.9	4179.1	4183.8	4179.1	4146.9	4133.0	4059.1	3685.0	3523.4	3472.6
17.5°	4160.7	4165.3	4188.4	4188.4	4188.4	4165.3	4160.7	4128.4	4003.7	3786.6	3500.4
20°	4137.6	4146.9	4193.1	4202.3	4193.1	4146.9	4137.6	4096.0	4026.8	3948.3	3731.2
22.5°	4128.4	4146.9	4183.8	4179.1	4183.8	4146.9	4128.4	4063.7	4003.7	3948.3	3860.5
25°	4082.2	4082.2	4086.8	4091.5	4086.8	4082.2	4082.2	4031.4	3911.3	3897.4	3846.7
27.5°	3985.2	3994.5	4022.1	4017.5	4022.1	3994.5	3985.2	3966.7	3837.5	3823.6	3786.6
30°	3897.4	3888.2	3865.1	3846.7	3865.1	3888.2	3897.4	3869.8	3740.4	3703.5	3712.8
32.5°	3749.7	3726.6	3703.5	3689.7	3703.5	3726.6	3749.7	3740.4	3643.5	3592.7	3601.9
35°	3574.2	3578.9	3574.2	3560.4	3574.2	3578.9	3574.2	3583.4	3523.4	3477.3	3472.6
37.5°	3449.5	3458.8	3454.2	3435.7	3454.2	3458.8	3449.5	3440.3	3357.2	3343.4	3352.6
40°	3320.3	3324.9	3320.3	3306.3	3320.3	3324.9	3320.3	3301.8	3186.4	3190.9	3223.3
42.5°	3195.6	3190.9	3177.1	3167.8	3177.1	3190.9	3195.6	3167.8	3020.1	3006.3	3066.3
45°	3052.4	3057.0	3029.3	3015.4	3029.3	3057.0	3052.4	3033.9	2881.5	2844.6	2886.2
47.5°	2909.3	2909.3	2886.2	2872.3	2886.2	2909.3	2909.3	2886.2	2724.5	2687.6	2710.7
50°	2756.8	2752.3	2719.9	2715.3	2719.9	2752.3	2756.8	2743.0	2572.2	2539.8	2539.8
52.5°	2581.4	2581.4	2586.0	2595.2	2586.0	2581.4	2581.4	2586.0	2433.6	2401.3	2392.1
55°	2429.0	2433.6	2465.9	2475.2	2465.9	2433.6	2429.0	2429.0	2290.5	2258.2	2239.6
57.5°	2272.0	2272.0	2295.1	2295.1	2295.1	2272.0	2272.0	2262.7	2128.8	2101.2	2091.9
60°	2091.9	2101.2	2119.6	2115.0	2119.6	2101.2	2091.9	2082.6	1967.2	1948.7	1916.4
62.5°	1902.6	1911.8	1916.4	1907.1	1916.4	1911.8	1902.6	1874.9	1805.5	1791.7	1750.1
65°	1704.0	1713.2	1717.8	1708.6	1717.8	1713.2	1704.0	1690.1	1639.3	1616.2	1579.3
67.5°	1500.8	1496.2	1491.5	1510.0	1491.5	1496.2	1500.8	1482.3	1450.1	1431.5	1380.7
70°	1293.0	1293.0	1288.4	1297.6	1288.4	1293.0	1293.0	1279.1	1260.7	1246.8	1200.6
72.5°	1071.4	1066.7	1085.2	1071.4	1085.2	1066.7	1071.4	1066.7	1057.5	1043.6	997.4
75°	854.3	863.5	854.3	868.2	854.3	863.5	854.3	858.9	854.3	845.1	812.8
77.5°	651.1	660.4	651.1	651.1	651.1	660.4	651.1	655.8	655.8	655.8	628.0
80°	461.8	457.2	457.2	452.5	457.2	457.2	461.8	461.8	466.4	457.2	447.9
82.5°	295.5	290.9	290.9	300.2	290.9	290.9	295.5	300.2	290.9	290.9	290.9
85°	161.6	166.3	157.0	157.0	157.0	166.3	161.6	152.4	161.6	161.6	157.0
87.5°	60.0	55.4	55.4	55.4	55.4	55.4	60.0	64.7	64.7	64.7	69.2
90°	64.7	64.7	64.7	64.7	64.7	64.7	64.7	86.2	115.0	129.4	111.2
92.5°	323.4	310.6	259.1	207.7	259.1	310.6	323.4	458.4	638.4	728.4	639.6
95°	1097.8	1058.9	903.0	747.2	903.0	1058.9	1097.8	1441.7	1900.0	2129.3	1798.4
97.5°	2534.3	2460.2	2163.7	1867.1	2163.7	2460.2	2534.3	2751.7	3041.4	3186.2	2634.4
100°	3559.0	3470.6	3117.4	2764.1	3117.4	3470.6	3559.0	3543.0	3521.8	3511.3	2898.9
102.5°	4433.8	4358.2	4055.6	3753.0	4055.6	4358.2	4433.8	4157.0	3787.8	3603.3	2982.2
105°	5455.0	5414.3	5251.8	5089.1	5251.8	5414.3	5455.0	4834.4	4006.8	3593.0	2991.6
107.5°	5986.0	5995.9	6035.3	6074.6	6035.3	5995.9	5986.0	5120.3	3965.9	3388.8	2858.4
110°	6122.2	6164.6	6334.1	6503.5	6334.1	6164.6	6122.2	5154.4	3863.9	3218.6	2740.5



TEST NUMBER: P936128

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6035.4	6100.5	6360.7	6621.0	6360.7	6100.5	6035.4	5044.8	3724.1	3063.7	2637.4
115°	5741.0	5831.2	6192.0	6552.8	6192.0	5831.2	5741.0	4786.7	3514.4	2878.2	2519.2
117.5°	5334.2	5434.3	5834.4	6234.6	5834.4	5434.3	5334.2	4473.0	3324.6	2750.5	2445.2
120°	5060.1	5157.4	5546.1	5935.0	5546.1	5157.4	5060.1	4273.2	3224.0	2699.4	2420.3
122.5°	4786.1	4882.0	5265.6	5649.1	5265.6	4882.0	4786.1	4077.5	3132.7	2660.3	2407.3
125°	4423.6	4511.9	4865.2	5218.5	4865.2	4511.9	4423.6	3821.7	3019.1	2617.8	2396.5
127.5°	4132.6	4207.1	4505.2	4803.2	4505.2	4207.1	4132.6	3615.7	2926.6	2582.0	2390.3
130°	3948.7	4017.6	4292.9	4568.3	4292.9	4017.6	3948.7	3488.6	2875.1	2568.4	2394.0
132.5°	3792.2	3853.9	4100.4	4347.0	4100.4	3853.9	3792.2	3380.3	2831.1	2556.4	2396.4
135°	3570.9	3624.0	3836.6	4049.2	3836.6	3624.0	3570.9	3225.9	2766.0	2536.1	2394.3
137.5°	3407.5	3451.0	3625.0	3798.9	3625.0	3451.0	3407.5	3115.9	2727.0	2532.6	2408.9
140°	3276.4	3317.1	3479.7	3642.4	3479.7	3317.1	3276.4	3024.5	2688.6	2520.7	2411.4
142.5°	3184.5	3219.6	3359.5	3499.4	3359.5	3219.6	3184.5	2963.2	2668.2	2520.7	2420.1
145°	3046.6	3073.1	3179.1	3285.0	3179.1	3073.1	3046.6	2865.6	2624.3	2503.7	2420.1
147.5°	2930.9	2952.9	3040.6	3128.3	3040.6	2952.9	2930.9	2788.5	2598.7	2503.7	2436.7
150°	2864.5	2882.3	2953.4	3024.5	2953.4	2882.3	2864.5	2744.3	2583.9	2503.7	2445.5
152.5°	2811.8	2825.2	2878.9	2932.6	2878.9	2825.2	2811.8	2709.1	2572.2	2503.7	2451.1
155°	2748.8	2757.7	2793.2	2828.8	2793.2	2757.7	2748.8	2667.1	2558.2	2503.7	2463.6
157.5°	2694.3	2700.6	2725.5	2750.5	2725.5	2700.6	2694.3	2630.8	2546.1	2503.7	2476.0
160°	2667.1	2670.7	2685.1	2699.4	2685.1	2670.7	2667.1	2612.6	2540.0	2503.7	2481.8
162.5°	2641.6	2645.0	2658.6	2672.2	2658.6	2645.0	2641.6	2595.6	2534.3	2503.7	2487.8
165°	2602.4	2606.0	2620.4	2634.8	2620.4	2606.0	2602.4	2569.5	2525.6	2503.7	2496.5
167.5°	2585.4	2586.9	2592.9	2599.0	2592.9	2586.9	2585.4	2563.8	2535.1	2520.7	2514.7
170°	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2563.8	2535.1	2520.7	2520.3
172.5°	2571.8	2570.5	2565.2	2559.9	2565.2	2570.5	2571.8	2554.8	2532.1	2520.7	2520.7
175°	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2542.3	2527.9	2520.7	2524.2
177.5°	2549.6	2548.1	2542.1	2536.1	2542.1	2548.1	2549.6	2541.2	2529.8	2524.2	2526.8
180°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1



TEST NUMBER: P936128

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	4881.1	4881.1	4881.1	4881.1	4881.1
2.5°	4821.1	4844.2	4858.0	4876.5	4922.7
5°	4636.3	4724.1	4751.8	4821.1	4904.1
7.5°	4230.0	4497.8	4571.7	4737.9	4867.2
10°	3837.5	4105.3	4234.5	4627.1	4821.1
12.5°	3638.9	3795.9	3883.6	4433.1	4756.4
15°	3514.2	3625.0	3689.7	4174.5	4682.5
17.5°	3417.2	3495.7	3541.9	3920.5	4580.9
20°	3357.2	3394.1	3435.7	3735.9	4465.5
22.5°	3315.6	3292.5	3324.9	3606.5	4308.5
25°	3287.9	3200.2	3237.1	3504.9	4123.7
27.5°	3311.0	3117.1	3130.9	3412.6	3929.8
30°	3315.6	3015.4	3020.1	3315.6	3712.8
32.5°	3283.3	2909.3	2913.8	3195.6	3468.0
35°	3204.8	2784.6	2779.9	3057.0	3135.5
37.5°	3098.6	2650.7	2650.7	2904.7	2770.8
40°	2969.3	2516.7	2530.6	2706.1	2447.5
42.5°	2812.2	2373.6	2392.1	2442.8	2207.3
45°	2641.4	2235.1	2248.9	2064.1	2022.6
47.5°	2452.1	2091.9	2096.5	1713.2	1962.6
50°	2225.8	1944.1	1925.6	1468.5	1958.0
52.5°	2027.2	1782.5	1727.0	1330.0	1777.9
55°	1833.3	1611.6	1491.5	1223.7	1648.5
57.5°	1662.5	1390.0	1274.5	1099.0	1620.9
60°	1505.4	1173.0	1085.2	965.1	1487.0
62.5°	1376.1	1011.3	992.9	872.8	1348.4
65°	1237.6	900.4	895.9	794.3	1145.2
67.5°	1103.7	826.6	821.9	720.3	872.8
70°	960.5	748.1	738.9	641.8	646.5
72.5°	812.8	660.4	651.1	577.3	535.7
75°	664.9	558.8	554.2	503.3	434.1
77.5°	521.9	443.4	452.5	406.3	318.6
80°	374.0	323.3	332.5	290.9	240.1
82.5°	249.3	212.4	221.7	184.7	161.6
85°	138.5	120.1	124.7	97.0	73.9
87.5°	64.7	55.4	55.4	36.9	23.1
90°	74.9	47.7	44.3	30.7	17.0
92.5°	461.8	328.5	299.5	183.7	68.0
95°	1136.4	639.9	587.0	375.1	163.4
97.5°	1530.7	703.0	656.2	469.4	282.5
100°	1674.3	755.7	713.3	543.9	374.4
102.5°	1740.0	808.5	768.9	610.8	452.7
105°	1788.9	886.8	853.3	719.4	585.5
107.5°	1797.9	1002.5	971.3	846.5	721.7
110°	1784.3	1067.2	1039.0	926.3	813.6



TEST NUMBER: P936128

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1784.9	1145.5	1118.7	1011.2	903.8
115°	1801.4	1262.9	1238.2	1139.0	1040.0
117.5°	1834.7	1376.9	1354.4	1264.4	1174.4
120°	1862.0	1443.3	1422.1	1337.4	1252.7
122.5°	1901.2	1521.6	1500.3	1414.8	1329.3
125°	1954.0	1622.1	1602.6	1524.6	1446.8
127.5°	2006.7	1719.0	1699.4	1620.7	1542.0
130°	2045.2	1783.7	1762.5	1677.8	1593.1
132.5°	2076.4	1836.5	1815.3	1730.6	1645.9
135°	2110.5	1897.8	1878.5	1801.3	1724.1
137.5°	2161.6	1976.1	1957.0	1880.6	1804.2
140°	2192.8	2028.9	2011.3	1940.9	1870.6
142.5°	2218.9	2068.0	2051.7	1986.6	1921.6
145°	2252.9	2127.5	2113.4	2056.7	1999.9
147.5°	2302.8	2202.4	2188.6	2133.4	2078.2
150°	2328.9	2241.6	2229.2	2179.2	2129.3
152.5°	2346.0	2267.1	2257.6	2219.9	2182.0
155°	2383.4	2323.3	2316.3	2288.4	2260.4
157.5°	2420.8	2379.4	2372.6	2345.4	2318.2
160°	2437.9	2405.0	2399.7	2378.5	2357.3
162.5°	2456.0	2432.2	2428.2	2412.4	2396.4
165°	2482.1	2471.4	2467.8	2453.4	2439.0
167.5°	2502.6	2493.5	2491.8	2485.0	2478.2
170°	2519.6	2519.1	2517.3	2510.5	2503.7
172.5°	2520.7	2520.7	2520.3	2518.8	2517.3
175°	2531.0	2536.1	2536.1	2536.1	2536.1
177.5°	2532.1	2536.1	2536.1	2536.1	2536.1
180°	2536.1	2536.1	2536.1	2536.1	2536.1



TEST NUMBER: P936128  
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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	13.61	14.42	14.62	15.44	16.80	16.46	17.27	17.47	18.29	19.65
	3H	14.09	14.81	15.11	15.84	17.22	17.81	18.53	18.83	19.56	20.94
	4H	14.27	14.96	15.31	15.99	17.38	18.26	18.94	19.29	19.97	21.36
	6H	14.39	15.02	15.43	16.06	17.46	18.55	19.17	19.59	20.21	21.61
	8H	14.39	14.99	15.44	16.04	17.44	18.62	19.22	19.67	20.27	21.67
	12H	14.36	14.93	15.41	15.97	17.39	18.66	19.23	19.72	20.28	21.70
4H	2H	14.64	15.33	15.68	16.36	17.75	16.87	17.55	17.91	18.58	19.97
	3H	15.67	16.24	16.71	17.30	18.70	18.37	18.94	19.42	20.00	21.40
	4H	15.94	16.46	16.99	17.51	18.94	18.90	19.42	19.96	20.48	21.90
	6H	16.06	16.51	17.13	17.58	19.00	19.27	19.72	20.34	20.79	22.21
	8H	16.07	16.48	17.13	17.55	18.99	19.38	19.80	20.44	20.86	22.30
	12H	16.03	16.41	17.11	17.49	18.93	19.44	19.81	20.52	20.90	22.34
8H	4H	16.39	16.81	17.46	17.88	19.31	19.02	19.44	20.09	20.51	21.94
	6H	16.65	17.00	17.74	18.11	19.54	19.46	19.81	20.55	20.92	22.35
	8H	16.69	17.00	17.79	18.09	19.54	19.62	19.92	20.71	21.01	22.46
	12H	16.67	16.94	17.77	18.03	19.52	19.72	19.98	20.82	21.07	22.56
12H	4H	16.40	16.77	17.48	17.86	19.30	18.98	19.36	20.07	20.44	21.88
	6H	16.71	17.02	17.81	18.11	19.56	19.46	19.76	20.55	20.85	22.31
	8H	16.78	17.04	17.88	18.13	19.62	19.62	19.89	20.72	20.98	22.47