

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: P936055

Luminaire Tested: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

**Test Information**

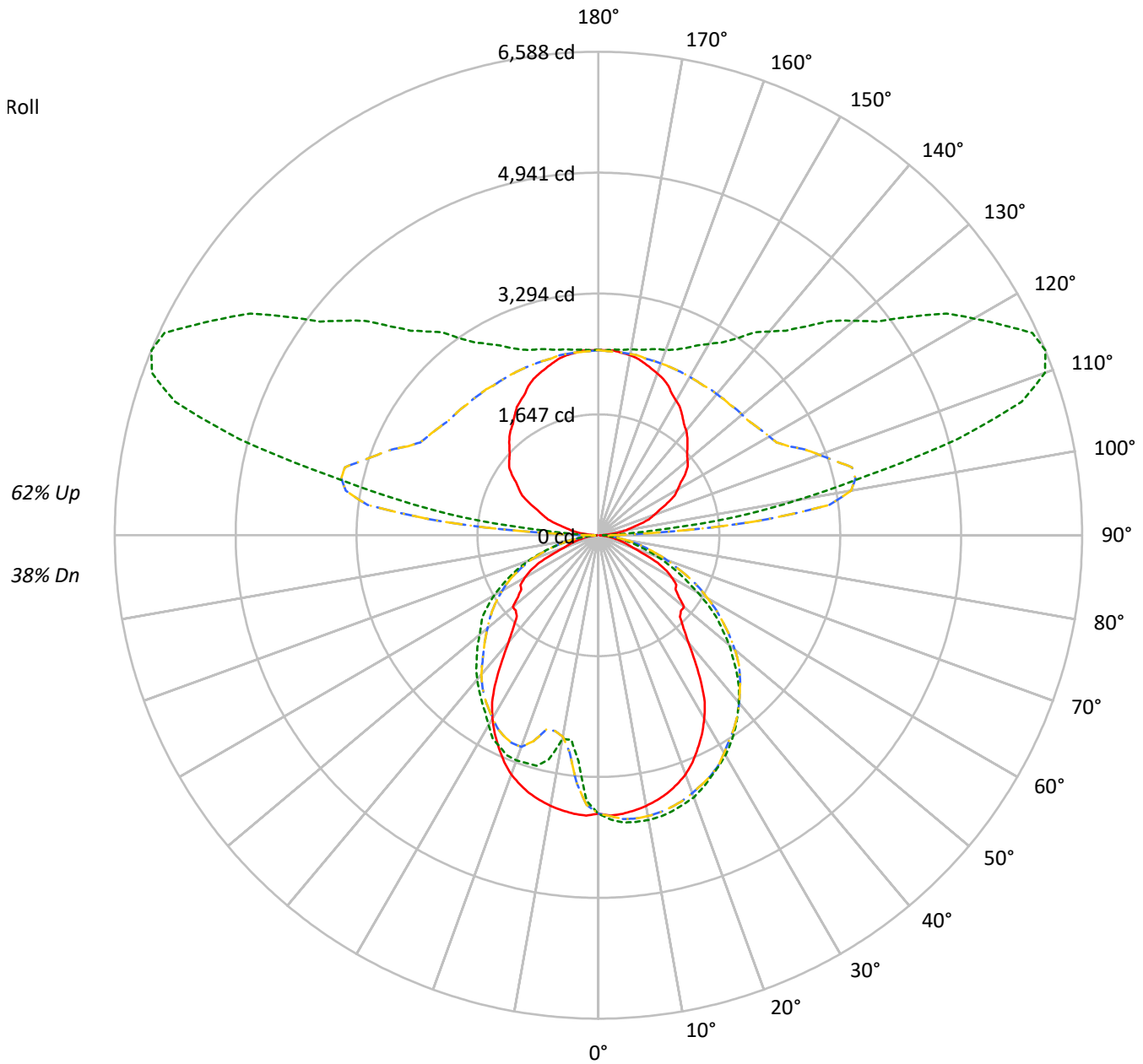
Test Method: LM-79-2019  
Report Number: P936055  
REPORT IS A COMBINATION OF REPORTS P933777 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26201.7 lumens  
Efficiency: N/A  
Efficacy: 120.6 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	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						38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32						32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27						27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23						23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19						19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17						17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15						15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13						13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12						12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10						10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9						9

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

	0°	90°	180°	270°
0°	11730	11730	11730	11730
5°	11822	11841	11822	9310
10°	11747	11664	11747	8339
15°	11624	11411	11624	9528
20°	11385	11112	11385	9548
25°	10892	10675	10892	9346
30°	10253	10312	10253	8902
35°	9146	9854	9146	8414
40°	7625	9314	7625	8044
45°	6817	8682	6817	7620
50°	7248	7929	7248	7195
55°	6826	7117	6826	6948
60°	7045	6045	7045	6364
65°	6398	4997	6398	5585
70°	4441	3982	4441	4682
75°	3909	2944	3909	3525
80°	3174	1946	3174	2119
85°	1860	1031	1860	876

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.3	1.3
10°-20°	971.9	3.7
20°-30°	1502.5	5.7
30°-40°	1793.6	6.8
40°-50°	1804.1	6.9
50°-60°	1569.8	6.0
60°-70°	1113.0	4.2
70°-80°	588.8	2.2
80°-90°	156.3	0.6
90°-100°	1230.1	4.7
100°-110°	3234.0	12.3
110°-120°	3353.3	12.8
120°-130°	2689.8	10.3
130°-140°	2110.5	8.1
140°-150°	1619.9	6.2
150°-160°	1166.6	4.5
160°-170°	713.8	2.7
170°-180°	241.2	0.9
0°-30°	2816.7	10.8
0°-40°	4610.3	17.6
0°-60°	7984.3	30.5
0°-90°	9842.4	37.6
90°-120°	7817.5	29.8
90°-150°	14237.7	54.3
90°-180°	16359.0	62.4
0°-180°	26201.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3792	3792	3792	3792	3792	
5°	3810	3929	3810	3089	3810	361
15°	3638	3893	3638	3250	3638	1024
25°	3204	3631	3204	3179	3204	1471
35°	2436	3240	2436	2766	2436	1507
45°	1572	2669	1572	2343	1572	1259
55°	1281	1970	1281	1923	1281	1177
65°	890	1188	890	1328	890	850
75°	337	563	337	674	337	355
85°	57	144	57	122	57	78
90°	17	64	17	64	17	16
95°	163	744	163	744	163	181
105°	583	5064	583	5064	583	618
115°	1035	6521	1035	6521	1035	1022
125°	1440	5193	1440	5193	1440	1278
135°	1716	4029	1716	4029	1716	1327
145°	1990	3269	1990	3269	1990	1247
155°	2249	2815	2249	2815	2249	1033
165°	2427	2622	2427	2622	2427	685
175°	2524	2540	2524	2540	2524	240
180°	2524	2524	2524	2524	2524	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3824.6	3824.6	3846.1	3853.3	3853.3	3842.5	3831.7	3842.5	3874.8	3885.6	3882.0
5°	3810.3	3839.0	3878.4	3885.6	3892.7	3889.2	3882.0	3889.2	3925.0	3932.2	3935.8
7.5°	3781.5	3835.3	3885.6	3896.4	3907.1	3896.4	3892.7	3900.0	3935.8	3943.0	3943.0
10°	3745.6	3821.0	3878.4	3885.6	3896.4	3885.6	3885.6	3900.0	3935.8	3943.0	3946.6
12.5°	3695.4	3799.5	3853.3	3860.5	3874.8	3871.2	3867.7	3882.0	3917.9	3925.0	3925.0
15°	3638.0	3760.0	3810.3	3817.4	3842.5	3835.3	3835.3	3849.7	3889.2	3900.0	3896.4
17.5°	3559.1	3709.8	3767.2	3778.0	3795.9	3792.3	3795.9	3810.3	3846.1	3853.3	3856.9
20°	3469.4	3641.6	3709.8	3720.6	3738.5	3738.5	3738.5	3756.4	3792.3	3806.7	3806.7
22.5°	3347.4	3569.9	3641.6	3648.8	3670.3	3670.3	3677.5	3702.6	3734.9	3738.5	3738.5
25°	3203.9	3490.9	3551.9	3573.5	3594.9	3605.7	3616.5	3630.9	3641.6	3638.0	3641.6
27.5°	3053.2	3390.5	3469.4	3483.8	3512.5	3523.2	3537.6	3541.2	3544.7	3555.5	3548.3
30°	2884.6	3250.5	3368.9	3383.3	3429.9	3437.1	3422.8	3429.9	3447.8	3455.1	3462.2
32.5°	2694.4	3042.4	3264.9	3297.1	3340.2	3318.7	3315.2	3325.9	3354.6	3354.6	3361.8
35°	2436.2	2881.0	3168.1	3196.8	3229.0	3203.9	3218.2	3221.8	3239.8	3250.5	3247.0
37.5°	2152.7	2741.1	3067.6	3089.1	3114.2	3081.9	3103.4	3114.2	3128.6	3121.4	3121.4
40°	1901.6	2522.2	2949.2	2963.5	2985.0	2960.0	2981.4	2988.7	2995.8	2988.7	2985.0
42.5°	1715.0	2281.8	2823.6	2841.6	2827.2	2845.1	2852.3	2866.6	2855.9	2841.6	2841.6
45°	1571.5	2217.3	2687.2	2708.8	2687.2	2715.9	2726.7	2726.7	2694.4	2687.2	2683.7
47.5°	1524.8	2088.1	2550.9	2550.9	2540.2	2576.0	2594.0	2568.8	2536.5	2525.9	2525.9
50°	1521.2	1944.6	2364.4	2350.0	2400.2	2443.3	2425.4	2400.2	2375.1	2335.7	2335.7
52.5°	1381.3	1768.8	2124.0	2177.8	2256.7	2281.8	2253.1	2228.1	2185.0	2167.0	2152.7
55°	1280.8	1585.8	1905.1	2012.7	2095.3	2127.6	2073.7	2048.7	1984.0	1973.3	1966.1
57.5°	1259.4	1320.3	1704.2	1840.6	1941.0	1937.4	1905.1	1858.5	1804.6	1793.9	1790.3
60°	1155.3	954.3	1488.9	1650.4	1754.5	1743.7	1715.0	1671.9	1621.7	1614.5	1607.3
62.5°	1047.6	692.4	1245.0	1428.0	1575.1	1571.5	1546.4	1481.7	1445.9	1428.0	1413.6
65°	889.8	581.2	886.2	1187.6	1399.2	1406.4	1352.6	1306.0	1266.5	1245.0	1241.3
67.5°	678.1	473.6	599.1	990.2	1230.7	1223.4	1155.3	1133.7	1083.5	1072.7	1051.3
70°	502.3	315.7	416.2	803.7	1065.6	1047.6	993.8	968.7	922.1	896.9	882.6
72.5°	416.2	254.7	304.9	624.3	896.9	875.4	828.8	800.1	760.6	739.1	724.8
75°	337.3	269.1	233.2	462.8	728.3	714.0	670.9	642.2	609.9	581.2	584.8
77.5°	247.6	251.2	186.6	340.9	577.7	556.1	531.0	495.1	480.7	452.0	452.0
80°	186.6	197.3	139.9	233.2	416.2	416.2	394.7	369.6	344.4	330.1	330.1
82.5°	125.5	125.5	104.0	147.1	283.4	272.6	258.3	251.2	236.8	229.6	229.6
85°	57.4	71.8	64.5	89.7	154.2	161.5	161.5	154.2	150.7	143.5	147.1
87.5°	17.9	32.3	39.5	50.2	78.9	82.6	86.1	86.1	86.1	89.7	89.7
90°	16.9	30.5	44.1	47.4	74.5	110.6	128.7	114.4	85.8	64.4	64.4
92.5°	67.7	182.8	298.1	326.9	459.6	636.4	724.9	635.2	456.1	321.8	309.0
95°	162.6	373.3	584.1	636.8	1130.8	1789.5	2118.8	1890.7	1434.6	1092.4	1053.7
97.5°	281.1	467.1	653.0	699.5	1523.2	2621.4	3170.5	3026.4	2738.1	2521.9	2448.1
100°	372.6	541.2	709.8	752.0	1666.0	2884.7	3494.0	3504.5	3525.6	3541.4	3453.6
102.5°	450.5	607.8	765.1	804.5	1731.5	2967.5	3585.5	3769.2	4136.5	4412.0	4336.7
105°	582.7	715.9	849.1	882.4	1780.1	2976.9	3575.3	3987.1	4810.6	5428.2	5387.7
107.5°	718.2	842.3	966.5	997.6	1789.1	2844.4	3372.1	3946.4	5095.1	5956.6	5966.4
110°	809.6	921.7	1033.9	1061.9	1775.6	2727.0	3202.7	3844.9	5129.0	6092.1	6134.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	899.4	1006.3	1113.2	1139.9	1776.1	2624.4	3048.6	3705.7	5020.0	6005.7	6070.5
115°	1034.9	1133.4	1232.1	1256.7	1792.5	2506.8	2864.0	3497.1	4763.1	5712.7	5802.5
117.5°	1168.7	1258.2	1347.8	1370.1	1825.7	2433.2	2736.9	3308.3	4450.9	5308.0	5407.5
120°	1246.5	1330.9	1415.1	1436.2	1852.9	2408.4	2686.2	3208.2	4252.2	5035.2	5132.0
122.5°	1322.7	1407.8	1492.9	1514.2	1891.9	2395.4	2647.2	3117.3	4057.5	4762.6	4858.0
125°	1439.7	1517.1	1594.7	1614.1	1944.4	2384.7	2604.9	3004.2	3802.9	4401.8	4489.7
127.5°	1534.4	1612.7	1691.0	1710.6	1996.8	2378.5	2569.3	2912.2	3597.9	4112.2	4186.4
130°	1585.3	1669.6	1753.8	1774.9	2035.2	2382.2	2555.7	2860.9	3471.5	3929.3	3997.8
132.5°	1637.8	1722.1	1806.3	1827.4	2066.2	2384.6	2543.9	2817.1	3363.7	3773.5	3834.9
135°	1715.6	1792.4	1869.2	1888.4	2100.2	2382.5	2523.6	2752.4	3210.1	3553.3	3606.2
137.5°	1795.3	1871.3	1947.4	1966.4	2150.9	2397.0	2520.1	2713.6	3100.5	3390.7	3434.0
140°	1861.4	1931.3	2001.4	2018.9	2182.0	2399.5	2508.3	2675.4	3009.7	3260.3	3300.8
142.5°	1912.2	1976.9	2041.6	2057.8	2208.0	2408.2	2508.3	2655.1	2948.7	3168.9	3203.7
145°	1990.1	2046.6	2103.0	2117.1	2241.8	2408.2	2491.4	2611.4	2851.5	3031.7	3058.0
147.5°	2067.9	2122.9	2177.8	2191.6	2291.5	2424.7	2491.4	2585.9	2774.8	2916.5	2938.3
150°	2118.8	2168.5	2218.2	2230.6	2317.5	2433.4	2491.4	2571.2	2730.8	2850.4	2868.1
152.5°	2171.3	2209.0	2246.5	2255.9	2334.4	2439.0	2491.4	2559.5	2695.8	2797.9	2811.3
155°	2249.2	2277.1	2304.9	2311.9	2371.7	2451.4	2491.4	2545.6	2654.0	2735.3	2744.2
157.5°	2306.8	2333.9	2360.9	2367.7	2408.9	2463.8	2491.4	2533.5	2617.8	2681.1	2687.3
160°	2345.7	2366.8	2387.9	2393.2	2425.9	2469.6	2491.4	2527.5	2599.7	2653.9	2657.6
162.5°	2384.6	2400.5	2416.2	2420.2	2443.9	2475.5	2491.4	2521.9	2582.9	2628.6	2631.9
165°	2427.0	2441.3	2455.6	2459.2	2469.9	2484.2	2491.4	2513.2	2556.8	2589.6	2593.2
167.5°	2466.0	2472.8	2479.5	2481.2	2490.3	2502.3	2508.3	2522.6	2551.2	2572.6	2574.2
170°	2491.4	2498.2	2504.9	2506.7	2507.2	2507.9	2508.3	2522.6	2551.2	2572.6	2572.6
172.5°	2504.9	2506.4	2507.9	2508.3	2508.3	2508.3	2508.3	2519.6	2542.2	2559.2	2557.8
175°	2523.6	2523.6	2523.6	2523.6	2518.5	2511.7	2508.3	2515.4	2529.7	2540.5	2540.5
177.5°	2523.6	2523.6	2523.6	2523.6	2519.6	2514.4	2511.7	2517.3	2528.7	2537.1	2535.5
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P936055

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3889.2	3878.4	3889.2	3882.0	3885.6	3874.8	3842.5	3831.7	3842.5	3853.3	3853.3
5°	3935.8	3928.7	3935.8	3935.8	3932.2	3925.0	3889.2	3882.0	3889.2	3892.7	3885.6
7.5°	3950.1	3939.4	3950.1	3943.0	3943.0	3935.8	3900.0	3892.7	3896.4	3907.1	3896.4
10°	3950.1	3939.4	3950.1	3946.6	3943.0	3935.8	3900.0	3885.6	3885.6	3896.4	3885.6
12.5°	3932.2	3925.0	3932.2	3925.0	3925.0	3917.9	3882.0	3867.7	3871.2	3874.8	3860.5
15°	3903.5	3892.7	3903.5	3896.4	3900.0	3889.2	3849.7	3835.3	3835.3	3842.5	3817.4
17.5°	3860.5	3846.1	3860.5	3856.9	3853.3	3846.1	3810.3	3795.9	3792.3	3795.9	3778.0
20°	3810.3	3799.5	3810.3	3806.7	3806.7	3792.3	3756.4	3738.5	3738.5	3738.5	3720.6
22.5°	3731.3	3720.6	3731.3	3738.5	3738.5	3734.9	3702.6	3677.5	3670.3	3670.3	3648.8
25°	3641.6	3630.9	3641.6	3641.6	3638.0	3641.6	3630.9	3616.5	3605.7	3594.9	3573.5
27.5°	3555.5	3548.3	3555.5	3548.3	3555.5	3544.7	3541.2	3537.6	3523.2	3512.5	3483.8
30°	3469.4	3462.2	3469.4	3462.2	3455.1	3447.8	3429.9	3422.8	3437.1	3429.9	3383.3
32.5°	3361.8	3354.6	3361.8	3361.8	3354.6	3354.6	3325.9	3315.2	3318.7	3340.2	3297.1
35°	3250.5	3239.8	3250.5	3247.0	3250.5	3239.8	3221.8	3218.2	3203.9	3229.0	3196.8
37.5°	3121.4	3110.6	3121.4	3121.4	3121.4	3128.6	3114.2	3103.4	3081.9	3114.2	3089.1
40°	2988.7	2974.3	2988.7	2985.0	2988.7	2995.8	2988.7	2981.4	2960.0	2985.0	2963.5
42.5°	2838.0	2834.3	2838.0	2841.6	2841.6	2855.9	2866.6	2852.3	2845.1	2827.2	2841.6
45°	2676.5	2669.3	2676.5	2683.7	2687.2	2694.4	2726.7	2726.7	2715.9	2687.2	2708.8
47.5°	2504.3	2486.4	2504.3	2525.9	2525.9	2536.5	2568.8	2594.0	2576.0	2540.2	2550.9
50°	2321.3	2324.9	2321.3	2335.7	2335.7	2375.1	2400.2	2425.4	2443.3	2400.2	2350.0
52.5°	2141.9	2138.4	2141.9	2152.7	2167.0	2185.0	2228.1	2253.1	2281.8	2256.7	2177.8
55°	1962.5	1969.7	1962.5	1966.1	1973.3	1984.0	2048.7	2073.7	2127.6	2095.3	2012.7
57.5°	1783.2	1772.4	1783.2	1790.3	1793.9	1804.6	1858.5	1905.1	1937.4	1941.0	1840.6
60°	1575.1	1560.7	1575.1	1607.3	1614.5	1621.7	1671.9	1715.0	1743.7	1754.5	1650.4
62.5°	1392.0	1367.0	1392.0	1413.6	1428.0	1445.9	1481.7	1546.4	1571.5	1575.1	1428.0
65°	1198.3	1187.6	1198.3	1241.3	1245.0	1266.5	1306.0	1352.6	1406.4	1399.2	1187.6
67.5°	1022.6	1022.6	1022.6	1051.3	1072.7	1083.5	1133.7	1155.3	1223.4	1230.7	990.2
70°	861.1	857.5	861.1	882.6	896.9	922.1	968.7	993.8	1047.6	1065.6	803.7
72.5°	706.8	703.2	706.8	724.8	739.1	760.6	800.1	828.8	875.4	896.9	624.3
75°	570.4	563.3	570.4	584.8	581.2	609.9	642.2	670.9	714.0	728.3	462.8
77.5°	437.7	437.7	437.7	452.0	452.0	480.7	495.1	531.0	556.1	577.7	340.9
80°	326.5	322.9	326.5	330.1	330.1	344.4	369.6	394.7	416.2	416.2	233.2
82.5°	229.6	222.4	229.6	229.6	229.6	236.8	251.2	258.3	272.6	283.4	147.1
85°	143.5	143.5	143.5	147.1	143.5	150.7	154.2	161.5	161.5	154.2	89.7
87.5°	93.3	89.7	93.3	89.7	89.7	86.1	86.1	86.1	82.6	78.9	50.2
90°	64.4	64.4	64.4	64.4	64.4	85.8	114.4	128.7	110.6	74.5	47.4
92.5°	257.8	206.6	257.8	309.0	321.8	456.1	635.2	724.9	636.4	459.6	326.9
95°	898.6	743.5	898.6	1053.7	1092.4	1434.6	1890.7	2118.8	1789.5	1130.8	636.8
97.5°	2153.0	1857.9	2153.0	2448.1	2521.9	2738.1	3026.4	3170.5	2621.4	1523.2	699.5
100°	3102.1	2750.5	3102.1	3453.6	3541.4	3525.6	3504.5	3494.0	2884.7	1666.0	752.0
102.5°	4035.7	3734.5	4035.7	4336.7	4412.0	4136.5	3769.2	3585.5	2967.5	1731.5	804.5
105°	5225.9	5064.1	5225.9	5387.7	5428.2	4810.6	3987.1	3575.3	2976.9	1780.1	882.4
107.5°	6005.6	6044.7	6005.6	5966.4	5956.6	5095.1	3946.4	3372.1	2844.4	1789.1	997.6
110°	6302.9	6471.5	6302.9	6134.3	6092.1	5129.0	3844.9	3202.7	2727.0	1775.6	1061.9





TEST NUMBER: P936055

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6329.4	6588.4	6329.4	6070.5	6005.7	5020.0	3705.7	3048.6	2624.4	1776.1	1139.9
115°	6161.5	6520.6	6161.5	5802.5	5712.7	4763.1	3497.1	2864.0	2506.8	1792.5	1256.7
117.5°	5805.7	6203.9	5805.7	5407.5	5308.0	4450.9	3308.3	2736.9	2433.2	1825.7	1370.1
120°	5518.9	5905.8	5518.9	5132.0	5035.2	4252.2	3208.2	2686.2	2408.4	1852.9	1436.2
122.5°	5239.7	5621.3	5239.7	4858.0	4762.6	4057.5	3117.3	2647.2	2395.4	1891.9	1514.2
125°	4841.3	5192.8	4841.3	4489.7	4401.8	3802.9	3004.2	2604.9	2384.7	1944.4	1614.1
127.5°	4483.0	4779.5	4483.0	4186.4	4112.2	3597.9	2912.2	2569.3	2378.5	1996.8	1710.6
130°	4271.8	4545.8	4271.8	3997.8	3929.3	3471.5	2860.9	2555.7	2382.2	2035.2	1774.9
132.5°	4080.2	4325.6	4080.2	3834.9	3773.5	3363.7	2817.1	2543.9	2384.6	2066.2	1827.4
135°	3817.7	4029.2	3817.7	3606.2	3553.3	3210.1	2752.4	2523.6	2382.5	2100.2	1888.4
137.5°	3607.2	3780.2	3607.2	3434.0	3390.7	3100.5	2713.6	2520.1	2397.0	2150.9	1966.4
140°	3462.6	3624.4	3462.6	3300.8	3260.3	3009.7	2675.4	2508.3	2399.5	2182.0	2018.9
142.5°	3342.9	3482.2	3342.9	3203.7	3168.9	2948.7	2655.1	2508.3	2408.2	2208.0	2057.8
145°	3163.4	3268.8	3163.4	3058.0	3031.7	2851.5	2611.4	2491.4	2408.2	2241.8	2117.1
147.5°	3025.7	3112.9	3025.7	2938.3	2916.5	2774.8	2585.9	2491.4	2424.7	2291.5	2191.6
150°	2938.9	3009.7	2938.9	2868.1	2850.4	2730.8	2571.2	2491.4	2433.4	2317.5	2230.6
152.5°	2864.7	2918.1	2864.7	2811.3	2797.9	2695.8	2559.5	2491.4	2439.0	2334.4	2255.9
155°	2779.5	2814.9	2779.5	2744.2	2735.3	2654.0	2545.6	2491.4	2451.4	2371.7	2311.9
157.5°	2712.1	2736.9	2712.1	2687.3	2681.1	2617.8	2533.5	2491.4	2463.8	2408.9	2367.7
160°	2671.9	2686.2	2671.9	2657.6	2653.9	2599.7	2527.5	2491.4	2469.6	2425.9	2393.2
162.5°	2645.5	2659.1	2645.5	2631.9	2628.6	2582.9	2521.9	2491.4	2475.5	2443.9	2420.2
165°	2607.5	2621.8	2607.5	2593.2	2589.6	2556.8	2513.2	2491.4	2484.2	2469.9	2459.2
167.5°	2580.2	2586.2	2580.2	2574.2	2572.6	2551.2	2522.6	2508.3	2502.3	2490.3	2481.2
170°	2572.6	2572.6	2572.6	2572.6	2572.6	2551.2	2522.6	2508.3	2507.9	2507.2	2506.7
172.5°	2552.6	2547.3	2552.6	2557.8	2559.2	2542.2	2519.6	2508.3	2508.3	2508.3	2508.3
175°	2540.5	2540.5	2540.5	2540.5	2540.5	2529.7	2515.4	2508.3	2511.7	2518.5	2523.6
177.5°	2529.6	2523.6	2529.6	2535.5	2537.1	2528.7	2517.3	2511.7	2514.4	2519.6	2523.6
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P936055

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3846.1	3824.6	3824.6	3788.7	3774.3	3763.6	3745.6	3691.9	3677.5	3663.1	3684.6
5°	3878.4	3839.0	3810.3	3745.6	3691.9	3670.3	3602.2	3473.0	3386.8	3322.3	3286.5
7.5°	3885.6	3835.3	3781.5	3681.1	3551.9	3494.6	3286.5	3049.7	2985.0	2927.7	2891.7
10°	3878.4	3821.0	3745.6	3594.9	3290.0	3189.5	2981.4	2827.2	2787.7	2776.9	2787.7
12.5°	3853.3	3799.5	3695.4	3444.3	3017.4	2949.2	2827.2	2737.5	2730.3	2748.2	2845.1
15°	3810.3	3760.0	3638.0	3243.4	2866.6	2816.4	2730.3	2698.0	2737.5	2863.0	3153.7
17.5°	3767.2	3709.8	3559.1	3046.0	2751.9	2715.9	2654.9	2719.6	2942.0	3110.6	3207.5
20°	3709.8	3641.6	3469.4	2902.5	2669.3	2637.0	2608.3	2899.0	3067.6	3128.6	3182.4
22.5°	3641.6	3569.9	3347.4	2802.1	2583.2	2558.1	2576.0	2999.4	3067.6	3110.6	3157.3
25°	3551.9	3490.9	3203.9	2723.2	2515.1	2486.4	2554.5	2988.7	3028.1	3038.9	3132.1
27.5°	3469.4	3390.5	3053.2	2651.4	2432.5	2421.8	2572.5	2942.0	2970.7	2981.4	3081.9
30°	3368.9	3250.5	2884.6	2576.0	2346.4	2342.8	2576.0	2884.6	2877.4	2906.1	3006.6
32.5°	3264.9	3042.4	2694.4	2482.8	2263.9	2260.3	2550.9	2798.5	2791.3	2830.8	2906.1
35°	3168.1	2881.0	2436.2	2375.1	2159.9	2163.4	2489.9	2698.0	2701.6	2737.5	2784.1
37.5°	3067.6	2741.1	2152.7	2256.7	2059.4	2059.4	2407.4	2604.8	2597.5	2608.3	2672.9
40°	2949.2	2522.2	1901.6	2102.4	1966.1	1955.3	2307.0	2504.3	2479.1	2475.6	2565.3
42.5°	2823.6	2281.8	1715.0	1897.9	1858.5	1844.1	2185.0	2382.3	2335.7	2346.4	2461.2
45°	2687.2	2217.3	1571.5	1603.8	1747.2	1736.5	2052.2	2242.4	2210.0	2238.8	2357.2
47.5°	2550.9	2088.1	1524.8	1331.0	1628.8	1625.3	1905.1	2106.0	2088.1	2116.8	2242.4
50°	2364.4	1944.6	1521.2	1141.0	1496.1	1510.4	1729.3	1973.3	1973.3	1998.4	2131.1
52.5°	2124.0	1768.8	1381.3	1033.2	1341.8	1384.9	1575.1	1858.5	1865.6	1890.8	2009.2
55°	1905.1	1585.8	1280.8	950.8	1158.9	1252.1	1424.4	1740.1	1754.5	1779.5	1887.2
57.5°	1704.2	1320.3	1259.4	853.9	990.2	1079.9	1291.6	1625.3	1632.5	1654.0	1758.0
60°	1488.9	954.3	1155.3	749.8	843.2	911.3	1169.6	1488.9	1514.1	1528.4	1618.1
62.5°	1245.0	692.4	1047.6	678.1	771.4	785.8	1069.2	1359.7	1392.0	1402.8	1456.7
65°	886.2	581.2	889.8	617.1	696.1	699.6	961.6	1227.0	1255.7	1273.7	1313.1
67.5°	599.1	473.6	678.1	559.7	638.6	642.2	857.5	1072.7	1112.2	1126.6	1151.7
70°	416.2	315.7	502.3	498.7	574.1	581.2	746.3	932.9	968.7	979.5	993.8
72.5°	304.9	254.7	416.2	448.5	505.9	513.0	631.4	775.0	810.8	821.6	828.8
75°	233.2	269.1	337.3	391.0	430.5	434.1	516.7	631.4	656.6	663.8	667.3
77.5°	186.6	251.2	247.6	315.7	351.6	344.4	405.4	488.0	509.4	509.4	509.4
80°	139.9	197.3	186.6	226.0	258.3	251.2	290.6	348.0	355.2	362.3	358.8
82.5°	104.0	125.5	125.5	143.5	172.3	165.0	193.7	226.0	226.0	226.0	233.2
85°	64.5	71.8	57.4	75.3	96.9	93.3	107.6	122.0	125.5	125.5	118.4
87.5°	39.5	32.3	17.9	28.7	43.1	43.1	50.2	53.9	50.2	50.2	50.2
90°	44.1	30.5	16.9	30.5	44.1	47.4	74.5	110.6	128.7	114.4	85.8
92.5°	298.1	182.8	67.7	182.8	298.1	326.9	459.6	636.4	724.9	635.2	456.1
95°	584.1	373.3	162.6	373.3	584.1	636.8	1130.8	1789.5	2118.8	1890.7	1434.6
97.5°	653.0	467.1	281.1	467.1	653.0	699.5	1523.2	2621.4	3170.5	3026.4	2738.1
100°	709.8	541.2	372.6	541.2	709.8	752.0	1666.0	2884.7	3494.0	3504.5	3525.6
102.5°	765.1	607.8	450.5	607.8	765.1	804.5	1731.5	2967.5	3585.5	3769.2	4136.5
105°	849.1	715.9	582.7	715.9	849.1	882.4	1780.1	2976.9	3575.3	3987.1	4810.6
107.5°	966.5	842.3	718.2	842.3	966.5	997.6	1789.1	2844.4	3372.1	3946.4	5095.1
110°	1033.9	921.7	809.6	921.7	1033.9	1061.9	1775.6	2727.0	3202.7	3844.9	5129.0



TEST NUMBER: P936055

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1113.2	1006.3	899.4	1006.3	1113.2	1139.9	1776.1	2624.4	3048.6	3705.7	5020.0
115°	1232.1	1133.4	1034.9	1133.4	1232.1	1256.7	1792.5	2506.8	2864.0	3497.1	4763.1
117.5°	1347.8	1258.2	1168.7	1258.2	1347.8	1370.1	1825.7	2433.2	2736.9	3308.3	4450.9
120°	1415.1	1330.9	1246.5	1330.9	1415.1	1436.2	1852.9	2408.4	2686.2	3208.2	4252.2
122.5°	1492.9	1407.8	1322.7	1407.8	1492.9	1514.2	1891.9	2395.4	2647.2	3117.3	4057.5
125°	1594.7	1517.1	1439.7	1517.1	1594.7	1614.1	1944.4	2384.7	2604.9	3004.2	3802.9
127.5°	1691.0	1612.7	1534.4	1612.7	1691.0	1710.6	1996.8	2378.5	2569.3	2912.2	3597.9
130°	1753.8	1669.6	1585.3	1669.6	1753.8	1774.9	2035.2	2382.2	2555.7	2860.9	3471.5
132.5°	1806.3	1722.1	1637.8	1722.1	1806.3	1827.4	2066.2	2384.6	2543.9	2817.1	3363.7
135°	1869.2	1792.4	1715.6	1792.4	1869.2	1888.4	2100.2	2382.5	2523.6	2752.4	3210.1
137.5°	1947.4	1871.3	1795.3	1871.3	1947.4	1966.4	2150.9	2397.0	2520.1	2713.6	3100.5
140°	2001.4	1931.3	1861.4	1931.3	2001.4	2018.9	2182.0	2399.5	2508.3	2675.4	3009.7
142.5°	2041.6	1976.9	1912.2	1976.9	2041.6	2057.8	2208.0	2408.2	2508.3	2655.1	2948.7
145°	2103.0	2046.6	1990.1	2046.6	2103.0	2117.1	2241.8	2408.2	2491.4	2611.4	2851.5
147.5°	2177.8	2122.9	2067.9	2122.9	2177.8	2191.6	2291.5	2424.7	2491.4	2585.9	2774.8
150°	2218.2	2168.5	2118.8	2168.5	2218.2	2230.6	2317.5	2433.4	2491.4	2571.2	2730.8
152.5°	2246.5	2209.0	2171.3	2209.0	2246.5	2255.9	2334.4	2439.0	2491.4	2559.5	2695.8
155°	2304.9	2277.1	2249.2	2277.1	2304.9	2311.9	2371.7	2451.4	2491.4	2545.6	2654.0
157.5°	2360.9	2333.9	2306.8	2333.9	2360.9	2367.7	2408.9	2463.8	2491.4	2533.5	2617.8
160°	2387.9	2366.8	2345.7	2366.8	2387.9	2393.2	2425.9	2469.6	2491.4	2527.5	2599.7
162.5°	2416.2	2400.5	2384.6	2400.5	2416.2	2420.2	2443.9	2475.5	2491.4	2521.9	2582.9
165°	2455.6	2441.3	2427.0	2441.3	2455.6	2459.2	2469.9	2484.2	2491.4	2513.2	2556.8
167.5°	2479.5	2472.8	2466.0	2472.8	2479.5	2481.2	2490.3	2502.3	2508.3	2522.6	2551.2
170°	2504.9	2498.2	2491.4	2498.2	2504.9	2506.7	2507.2	2507.9	2508.3	2522.6	2551.2
172.5°	2507.9	2506.4	2504.9	2506.4	2507.9	2508.3	2508.3	2508.3	2508.3	2519.6	2542.2
175°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2518.5	2511.7	2508.3	2515.4	2529.7
177.5°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2519.6	2514.4	2511.7	2517.3	2528.7
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P936055  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3659.6	3648.8	3663.1	3623.6	3663.1	3648.8	3659.6	3684.6	3663.1	3677.5	3691.9
5°	3211.1	3193.1	3135.7	3089.1	3135.7	3193.1	3211.1	3286.5	3322.3	3386.8	3473.0
7.5°	2870.3	2855.9	2841.6	2812.8	2841.6	2855.9	2870.3	2891.7	2927.7	2985.0	3049.7
10°	2794.9	2798.5	2820.0	2816.4	2820.0	2798.5	2794.9	2787.7	2776.9	2787.7	2827.2
12.5°	2988.7	3020.9	3139.3	3132.1	3139.3	3020.9	2988.7	2845.1	2748.2	2730.3	2737.5
15°	3211.1	3221.8	3247.0	3250.5	3247.0	3221.8	3211.1	3153.7	2863.0	2737.5	2698.0
17.5°	3232.6	3236.2	3254.1	3254.1	3254.1	3236.2	3232.6	3207.5	3110.6	2942.0	2719.6
20°	3214.7	3221.8	3257.7	3264.9	3257.7	3221.8	3214.7	3182.4	3128.6	3067.6	2899.0
22.5°	3207.5	3221.8	3250.5	3247.0	3250.5	3221.8	3207.5	3157.3	3110.6	3067.6	2999.4
25°	3171.6	3171.6	3175.2	3178.7	3175.2	3171.6	3171.6	3132.1	3038.9	3028.1	2988.7
27.5°	3096.3	3103.4	3125.0	3121.4	3125.0	3103.4	3096.3	3081.9	2981.4	2970.7	2942.0
30°	3028.1	3020.9	3003.0	2988.7	3003.0	3020.9	3028.1	3006.6	2906.1	2877.4	2884.6
32.5°	2913.3	2895.3	2877.4	2866.6	2877.4	2895.3	2913.3	2906.1	2830.8	2791.3	2798.5
35°	2776.9	2780.6	2776.9	2766.2	2776.9	2780.6	2776.9	2784.1	2737.5	2701.6	2698.0
37.5°	2680.1	2687.2	2683.7	2669.3	2683.7	2687.2	2680.1	2672.9	2608.3	2597.5	2604.8
40°	2579.6	2583.2	2579.6	2568.8	2579.6	2583.2	2579.6	2565.3	2475.6	2479.1	2504.3
42.5°	2482.8	2479.1	2468.4	2461.2	2468.4	2479.1	2482.8	2461.2	2346.4	2335.7	2382.3
45°	2371.5	2375.1	2353.6	2342.8	2353.6	2375.1	2371.5	2357.2	2238.8	2210.0	2242.4
47.5°	2260.3	2260.3	2242.4	2231.6	2242.4	2260.3	2260.3	2242.4	2116.8	2088.1	2106.0
50°	2141.9	2138.4	2113.2	2109.7	2113.2	2138.4	2141.9	2131.1	1998.4	1973.3	1973.3
52.5°	2005.6	2005.6	2009.2	2016.3	2009.2	2005.6	2005.6	2009.2	1890.8	1865.6	1858.5
55°	1887.2	1890.8	1915.9	1923.0	1915.9	1890.8	1887.2	1887.2	1779.5	1754.5	1740.1
57.5°	1765.2	1765.2	1783.2	1783.2	1783.2	1765.2	1765.2	1758.0	1654.0	1632.5	1625.3
60°	1625.3	1632.5	1646.8	1643.2	1646.8	1632.5	1625.3	1618.1	1528.4	1514.1	1488.9
62.5°	1478.1	1485.4	1488.9	1481.7	1488.9	1485.4	1478.1	1456.7	1402.8	1392.0	1359.7
65°	1323.9	1331.0	1334.7	1327.5	1334.7	1331.0	1323.9	1313.1	1273.7	1255.7	1227.0
67.5°	1166.0	1162.4	1158.9	1173.2	1158.9	1162.4	1166.0	1151.7	1126.6	1112.2	1072.7
70°	1004.5	1004.5	1001.0	1008.2	1001.0	1004.5	1004.5	993.8	979.5	968.7	932.9
72.5°	832.4	828.8	843.2	832.4	843.2	828.8	832.4	828.8	821.6	810.8	775.0
75°	663.8	670.9	663.8	674.5	663.8	670.9	663.8	667.3	663.8	656.6	631.4
77.5°	505.9	513.0	505.9	505.9	505.9	513.0	505.9	509.4	509.4	509.4	488.0
80°	358.8	355.2	355.2	351.6	355.2	355.2	358.8	358.8	362.3	355.2	348.0
82.5°	229.6	226.0	226.0	233.2	226.0	226.0	229.6	233.2	226.0	226.0	226.0
85°	125.5	129.2	122.0	122.0	122.0	129.2	125.5	118.4	125.5	125.5	122.0
87.5°	46.6	43.1	43.1	43.1	43.1	43.1	46.6	50.2	50.2	50.2	53.9
90°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	85.8	114.4	128.7	110.6
92.5°	321.8	309.0	257.8	206.6	257.8	309.0	321.8	456.1	635.2	724.9	636.4
95°	1092.4	1053.7	898.6	743.5	898.6	1053.7	1092.4	1434.6	1890.7	2118.8	1789.5
97.5°	2521.9	2448.1	2153.0	1857.9	2153.0	2448.1	2521.9	2738.1	3026.4	3170.5	2621.4
100°	3541.4	3453.6	3102.1	2750.5	3102.1	3453.6	3541.4	3525.6	3504.5	3494.0	2884.7
102.5°	4412.0	4336.7	4035.7	3734.5	4035.7	4336.7	4412.0	4136.5	3769.2	3585.5	2967.5
105°	5428.2	5387.7	5225.9	5064.1	5225.9	5387.7	5428.2	4810.6	3987.1	3575.3	2976.9
107.5°	5956.6	5966.4	6005.6	6044.7	6005.6	5966.4	5956.6	5095.1	3946.4	3372.1	2844.4
110°	6092.1	6134.3	6302.9	6471.5	6302.9	6134.3	6092.1	5129.0	3844.9	3202.7	2727.0



TEST NUMBER: P936055

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6005.7	6070.5	6329.4	6588.4	6329.4	6070.5	6005.7	5020.0	3705.7	3048.6	2624.4
115°	5712.7	5802.5	6161.5	6520.6	6161.5	5802.5	5712.7	4763.1	3497.1	2864.0	2506.8
117.5°	5308.0	5407.5	5805.7	6203.9	5805.7	5407.5	5308.0	4450.9	3308.3	2736.9	2433.2
120°	5035.2	5132.0	5518.9	5905.8	5518.9	5132.0	5035.2	4252.2	3208.2	2686.2	2408.4
122.5°	4762.6	4858.0	5239.7	5621.3	5239.7	4858.0	4762.6	4057.5	3117.3	2647.2	2395.4
125°	4401.8	4489.7	4841.3	5192.8	4841.3	4489.7	4401.8	3802.9	3004.2	2604.9	2384.7
127.5°	4112.2	4186.4	4483.0	4779.5	4483.0	4186.4	4112.2	3597.9	2912.2	2569.3	2378.5
130°	3929.3	3997.8	4271.8	4545.8	4271.8	3997.8	3929.3	3471.5	2860.9	2555.7	2382.2
132.5°	3773.5	3834.9	4080.2	4325.6	4080.2	3834.9	3773.5	3363.7	2817.1	2543.9	2384.6
135°	3553.3	3606.2	3817.7	4029.2	3817.7	3606.2	3553.3	3210.1	2752.4	2523.6	2382.5
137.5°	3390.7	3434.0	3607.2	3780.2	3607.2	3434.0	3390.7	3100.5	2713.6	2520.1	2397.0
140°	3260.3	3300.8	3462.6	3624.4	3462.6	3300.8	3260.3	3009.7	2675.4	2508.3	2399.5
142.5°	3168.9	3203.7	3342.9	3482.2	3342.9	3203.7	3168.9	2948.7	2655.1	2508.3	2408.2
145°	3031.7	3058.0	3163.4	3268.8	3163.4	3058.0	3031.7	2851.5	2611.4	2491.4	2408.2
147.5°	2916.5	2938.3	3025.7	3112.9	3025.7	2938.3	2916.5	2774.8	2585.9	2491.4	2424.7
150°	2850.4	2868.1	2938.9	3009.7	2938.9	2868.1	2850.4	2730.8	2571.2	2491.4	2433.4
152.5°	2797.9	2811.3	2864.7	2918.1	2864.7	2811.3	2797.9	2695.8	2559.5	2491.4	2439.0
155°	2735.3	2744.2	2779.5	2814.9	2779.5	2744.2	2735.3	2654.0	2545.6	2491.4	2451.4
157.5°	2681.1	2687.3	2712.1	2736.9	2712.1	2687.3	2681.1	2617.8	2533.5	2491.4	2463.8
160°	2653.9	2657.6	2671.9	2686.2	2671.9	2657.6	2653.9	2599.7	2527.5	2491.4	2469.6
162.5°	2628.6	2631.9	2645.5	2659.1	2645.5	2631.9	2628.6	2582.9	2521.9	2491.4	2475.5
165°	2589.6	2593.2	2607.5	2621.8	2607.5	2593.2	2589.6	2556.8	2513.2	2491.4	2484.2
167.5°	2572.6	2574.2	2580.2	2586.2	2580.2	2574.2	2572.6	2551.2	2522.6	2508.3	2502.3
170°	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2551.2	2522.6	2508.3	2507.9
172.5°	2559.2	2557.8	2552.6	2547.3	2552.6	2557.8	2559.2	2542.2	2519.6	2508.3	2508.3
175°	2540.5	2540.5	2540.5	2540.5	2540.5	2540.5	2540.5	2529.7	2515.4	2508.3	2511.7
177.5°	2537.1	2535.5	2529.6	2523.6	2529.6	2535.5	2537.1	2528.7	2517.3	2511.7	2514.4
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P936055

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3792.3	3792.3	3792.3	3792.3	3792.3
2.5°	3745.6	3763.6	3774.3	3788.7	3824.6
5°	3602.2	3670.3	3691.9	3745.6	3810.3
7.5°	3286.5	3494.6	3551.9	3681.1	3781.5
10°	2981.4	3189.5	3290.0	3594.9	3745.6
12.5°	2827.2	2949.2	3017.4	3444.3	3695.4
15°	2730.3	2816.4	2866.6	3243.4	3638.0
17.5°	2654.9	2715.9	2751.9	3046.0	3559.1
20°	2608.3	2637.0	2669.3	2902.5	3469.4
22.5°	2576.0	2558.1	2583.2	2802.1	3347.4
25°	2554.5	2486.4	2515.1	2723.2	3203.9
27.5°	2572.5	2421.8	2432.5	2651.4	3053.2
30°	2576.0	2342.8	2346.4	2576.0	2884.6
32.5°	2550.9	2260.3	2263.9	2482.8	2694.4
35°	2489.9	2163.4	2159.9	2375.1	2436.2
37.5°	2407.4	2059.4	2059.4	2256.7	2152.7
40°	2307.0	1955.3	1966.1	2102.4	1901.6
42.5°	2185.0	1844.1	1858.5	1897.9	1715.0
45°	2052.2	1736.5	1747.2	1603.8	1571.5
47.5°	1905.1	1625.3	1628.8	1331.0	1524.8
50°	1729.3	1510.4	1496.1	1141.0	1521.2
52.5°	1575.1	1384.9	1341.8	1033.2	1381.3
55°	1424.4	1252.1	1158.9	950.8	1280.8
57.5°	1291.6	1079.9	990.2	853.9	1259.4
60°	1169.6	911.3	843.2	749.8	1155.3
62.5°	1069.2	785.8	771.4	678.1	1047.6
65°	961.6	699.6	696.1	617.1	889.8
67.5°	857.5	642.2	638.6	559.7	678.1
70°	746.3	581.2	574.1	498.7	502.3
72.5°	631.4	513.0	505.9	448.5	416.2
75°	516.7	434.1	430.5	391.0	337.3
77.5°	405.4	344.4	351.6	315.7	247.6
80°	290.6	251.2	258.3	226.0	186.6
82.5°	193.7	165.0	172.3	143.5	125.5
85°	107.6	93.3	96.9	75.3	57.4
87.5°	50.2	43.1	43.1	28.7	17.9
90°	74.5	47.4	44.1	30.5	16.9
92.5°	459.6	326.9	298.1	182.8	67.7
95°	1130.8	636.8	584.1	373.3	162.6
97.5°	1523.2	699.5	653.0	467.1	281.1
100°	1666.0	752.0	709.8	541.2	372.6
102.5°	1731.5	804.5	765.1	607.8	450.5
105°	1780.1	882.4	849.1	715.9	582.7
107.5°	1789.1	997.6	966.5	842.3	718.2
110°	1775.6	1061.9	1033.9	921.7	809.6



TEST NUMBER: P936055

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1776.1	1139.9	1113.2	1006.3	899.4
115°	1792.5	1256.7	1232.1	1133.4	1034.9
117.5°	1825.7	1370.1	1347.8	1258.2	1168.7
120°	1852.9	1436.2	1415.1	1330.9	1246.5
122.5°	1891.9	1514.2	1492.9	1407.8	1322.7
125°	1944.4	1614.1	1594.7	1517.1	1439.7
127.5°	1996.8	1710.6	1691.0	1612.7	1534.4
130°	2035.2	1774.9	1753.8	1669.6	1585.3
132.5°	2066.2	1827.4	1806.3	1722.1	1637.8
135°	2100.2	1888.4	1869.2	1792.4	1715.6
137.5°	2150.9	1966.4	1947.4	1871.3	1795.3
140°	2182.0	2018.9	2001.4	1931.3	1861.4
142.5°	2208.0	2057.8	2041.6	1976.9	1912.2
145°	2241.8	2117.1	2103.0	2046.6	1990.1
147.5°	2291.5	2191.6	2177.8	2122.9	2067.9
150°	2317.5	2230.6	2218.2	2168.5	2118.8
152.5°	2334.4	2255.9	2246.5	2209.0	2171.3
155°	2371.7	2311.9	2304.9	2277.1	2249.2
157.5°	2408.9	2367.7	2360.9	2333.9	2306.8
160°	2425.9	2393.2	2387.9	2366.8	2345.7
162.5°	2443.9	2420.2	2416.2	2400.5	2384.6
165°	2469.9	2459.2	2455.6	2441.3	2427.0
167.5°	2490.3	2481.2	2479.5	2472.8	2466.0
170°	2507.2	2506.7	2504.9	2498.2	2491.4
172.5°	2508.3	2508.3	2507.9	2506.4	2504.9
175°	2518.5	2523.6	2523.6	2523.6	2523.6
177.5°	2519.6	2523.6	2523.6	2523.6	2523.6
180°	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P936055  
 CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-12-4000K

**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	12.09	12.85	13.15	13.91	15.35	14.95	15.70	16.00	16.77	18.20
	3H	12.56	13.24	13.63	14.31	15.77	16.29	16.97	17.36	18.04	19.50
	4H	12.75	13.39	13.83	14.47	15.93	16.73	17.38	17.81	18.45	19.91
	6H	12.86	13.46	13.95	14.53	16.01	17.02	17.61	18.11	18.69	20.16
	8H	12.86	13.43	13.95	14.52	15.99	17.09	17.66	18.18	18.75	20.22
	12H	12.83	13.36	13.92	14.45	15.94	17.13	17.67	18.23	18.75	20.25
4H	2H	13.12	13.76	14.20	14.83	16.30	15.34	15.99	16.43	17.06	18.52
	3H	14.14	14.67	15.23	15.77	17.25	16.84	17.38	17.94	18.48	19.96
	4H	14.41	14.90	15.51	15.99	17.49	17.37	17.86	18.47	18.95	20.45
	6H	14.53	14.95	15.63	16.06	17.55	17.74	18.16	18.84	19.27	20.76
	8H	14.53	14.93	15.64	16.03	17.54	17.84	18.24	18.95	19.34	20.85
	12H	14.49	14.85	15.62	15.97	17.48	17.90	18.26	19.02	19.37	20.89
8H	4H	14.86	15.25	15.96	16.36	17.86	17.49	17.88	18.59	18.99	20.49
	6H	15.11	15.44	16.24	16.59	18.09	17.93	18.25	19.05	19.40	20.90
	8H	15.16	15.44	16.29	16.57	18.09	18.08	18.36	19.21	19.49	21.02
	12H	15.13	15.39	16.27	16.51	18.07	18.18	18.43	19.31	19.55	21.11
12H	4H	14.86	15.22	15.98	16.33	17.84	17.45	17.80	18.57	18.92	20.43
	6H	15.18	15.46	16.31	16.59	18.11	17.92	18.21	19.05	19.33	20.86
	8H	15.24	15.49	16.37	16.61	18.17	18.08	18.33	19.22	19.46	21.02