

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: P936009

Luminaire Tested: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936009
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-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

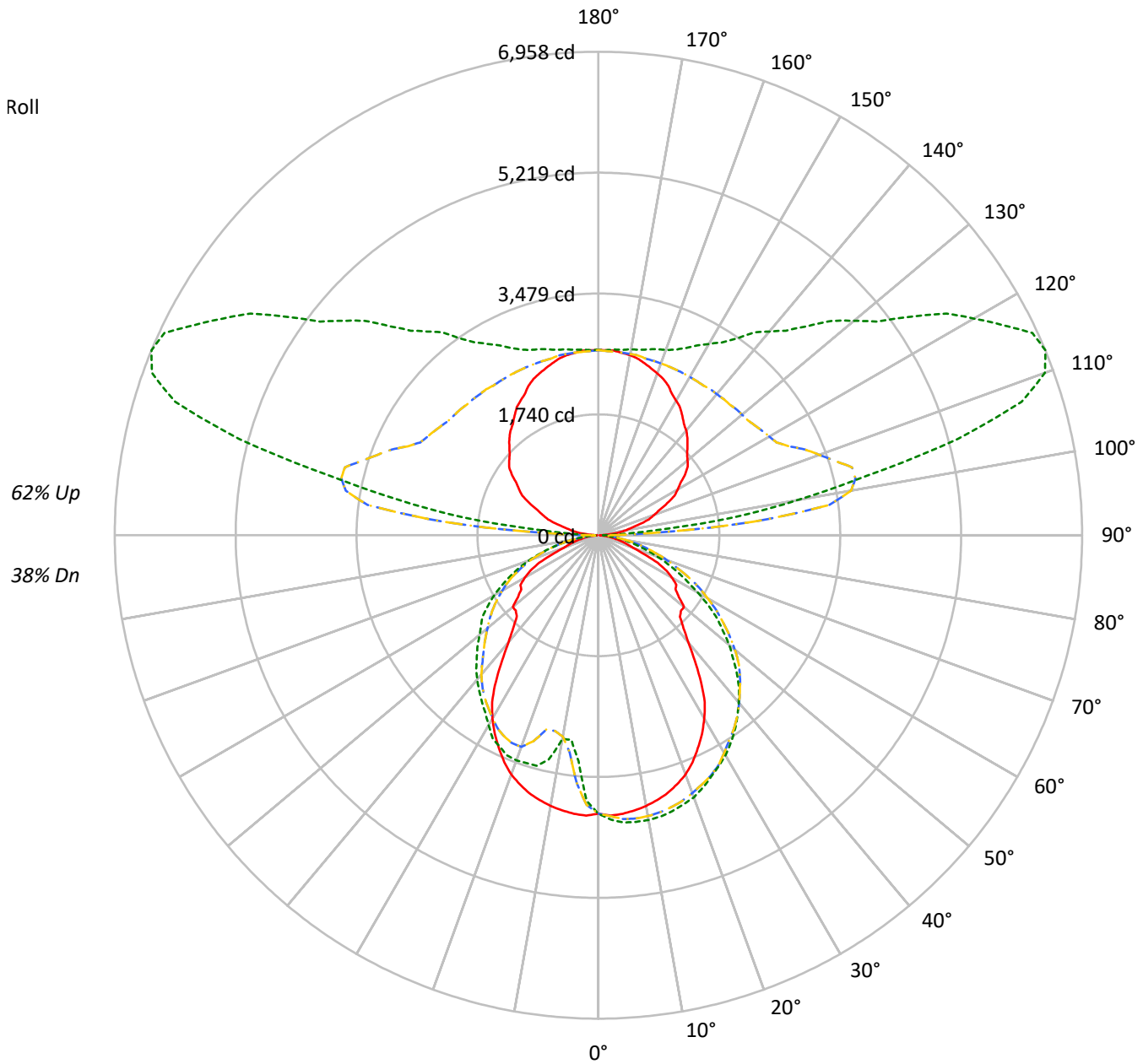
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27673.3 lumens
Efficiency: N/A
Efficacy: 127.4 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

TEST NUMBER: P936009
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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										
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																				
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°	12389	12389	12389	12389
5°	12486	12506	12486	9833
10°	12407	12319	12407	8807
15°	12277	12052	12277	10064
20°	12025	11736	12025	10085
25°	11504	11275	11504	9871
30°	10829	10892	10829	9402
35°	9659	10407	9659	8886
40°	8053	9837	8053	8496
45°	7200	9170	7200	8048
50°	7655	8374	7655	7599
55°	7209	7517	7209	7338
60°	7440	6384	7440	6722
65°	6757	5277	6757	5899
70°	4690	4206	4690	4945
75°	4128	3109	4128	3723
80°	3351	2055	3351	2238
85°	1964	1088	1964	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11028 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	1.3
10°-20°	1026.5	3.7
20°-30°	1586.8	5.7
30°-40°	1894.3	6.8
40°-50°	1905.5	6.9
50°-60°	1658.0	6.0
60°-70°	1175.5	4.2
70°-80°	621.9	2.2
80°-90°	165.1	0.6
90°-100°	1299.2	4.7
100°-110°	3415.7	12.3
110°-120°	3541.7	12.8
120°-130°	2840.9	10.3
130°-140°	2229.1	8.1
140°-150°	1710.9	6.2
150°-160°	1232.1	4.5
160°-170°	753.9	2.7
170°-180°	254.7	0.9
0°-30°	2974.9	10.8
0°-40°	4869.3	17.6
0°-60°	8432.7	30.5
0°-90°	10395.2	37.6
90°-120°	8256.6	29.8
90°-150°	15037.4	54.3
90°-180°	17278.0	62.4
0°-180°	27673.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4005	4005	4005	4005	4005	
5°	4024	4149	4024	3263	4024	382
15°	3842	4111	3842	3433	3842	1081
25°	3384	3835	3384	3357	3384	1554
35°	2573	3422	2573	2922	2573	1592
45°	1660	2819	1660	2474	1660	1330
55°	1353	2080	1353	2031	1353	1243
65°	940	1254	940	1402	940	898
75°	356	595	356	712	356	375
85°	61	152	61	129	61	82
90°	18	68	18	68	18	17
95°	172	785	172	785	172	191
105°	615	5348	615	5348	615	652
115°	1093	6887	1093	6887	1093	1080
125°	1520	5484	1520	5484	1520	1350
135°	1812	4256	1812	4256	1812	1402
145°	2102	3452	2102	3452	2102	1317
155°	2376	2973	2376	2973	2376	1092
165°	2563	2769	2563	2769	2563	723
175°	2665	2683	2665	2683	2665	253
180°	2665	2665	2665	2665	2665	



TEST NUMBER: P936009

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4039.4	4039.4	4062.1	4069.7	4069.7	4058.3	4046.9	4058.3	4092.4	4103.8	4100.0
5°	4024.3	4054.6	4096.3	4103.8	4111.4	4107.6	4100.0	4107.6	4145.5	4153.1	4156.9
7.5°	3993.9	4050.8	4103.8	4115.2	4126.6	4115.2	4111.4	4119.0	4156.9	4164.4	4164.4
10°	3956.0	4035.7	4096.3	4103.8	4115.2	4103.8	4103.8	4119.0	4156.9	4164.4	4168.3
12.5°	3903.0	4012.9	4069.7	4077.3	4092.4	4088.6	4084.9	4100.0	4138.0	4145.5	4145.5
15°	3842.4	3971.2	4024.3	4031.8	4058.3	4050.8	4050.8	4066.0	4107.6	4119.0	4115.2
17.5°	3759.0	3918.2	3978.8	3990.2	4009.1	4005.3	4009.1	4024.3	4062.1	4069.7	4073.5
20°	3664.3	3846.2	3918.2	3929.5	3948.5	3948.5	3948.5	3967.4	4005.3	4020.5	4020.5
22.5°	3535.4	3770.4	3846.2	3853.7	3876.5	3876.5	3884.0	3910.5	3944.6	3948.5	3948.5
25°	3383.9	3687.0	3751.4	3774.2	3796.8	3808.2	3819.6	3834.8	3846.2	3842.4	3846.2
27.5°	3224.7	3580.9	3664.3	3679.5	3709.8	3721.1	3736.2	3740.1	3743.8	3755.2	3747.6
30°	3046.6	3433.1	3558.1	3573.3	3622.6	3630.1	3615.0	3622.6	3641.5	3649.1	3656.7
32.5°	2845.7	3213.3	3448.3	3482.3	3527.8	3505.1	3501.4	3512.7	3543.0	3543.0	3550.6
35°	2573.0	3042.9	3346.0	3376.3	3410.3	3383.9	3399.0	3402.8	3421.7	3433.1	3429.4
37.5°	2273.6	2895.1	3239.9	3262.6	3289.1	3255.0	3277.7	3289.1	3304.3	3296.7	3296.7
40°	2008.4	2663.9	3114.8	3129.9	3152.7	3126.2	3148.9	3156.5	3164.1	3156.5	3152.7
42.5°	1811.3	2410.0	2982.1	3001.2	2986.0	3004.9	3012.5	3027.7	3016.3	3001.2	3001.2
45°	1659.7	2341.8	2838.2	2860.9	2838.2	2868.5	2879.9	2879.9	2845.7	2838.2	2834.4
47.5°	1610.5	2205.4	2694.2	2694.2	2682.8	2720.7	2739.7	2713.1	2679.0	2667.7	2667.7
50°	1606.7	2053.8	2497.2	2482.0	2535.0	2580.5	2561.6	2535.0	2508.5	2466.9	2466.9
52.5°	1458.9	1868.1	2243.3	2300.1	2383.5	2410.0	2379.7	2353.2	2307.7	2288.8	2273.6
55°	1352.7	1674.9	2012.1	2125.8	2212.9	2247.1	2190.2	2163.7	2095.5	2084.1	2076.5
57.5°	1330.1	1394.4	1800.0	1943.9	2050.0	2046.2	2012.1	1962.9	1906.0	1894.7	1890.9
60°	1220.1	1007.9	1572.5	1743.1	1853.0	1841.6	1811.3	1765.8	1712.8	1705.2	1697.6
62.5°	1106.5	731.3	1314.9	1508.2	1663.5	1659.7	1633.2	1565.0	1527.1	1508.2	1493.0
65°	939.7	613.8	935.9	1254.3	1477.8	1485.4	1428.6	1379.3	1337.6	1314.9	1311.1
67.5°	716.1	500.2	632.8	1045.9	1299.8	1292.1	1220.1	1197.4	1144.3	1133.0	1110.3
70°	530.5	333.5	439.6	848.8	1125.4	1106.5	1049.6	1023.1	973.9	947.3	932.2
72.5°	439.6	269.0	322.1	659.4	947.3	924.5	875.3	845.0	803.3	780.6	765.5
75°	356.2	284.2	246.3	488.8	769.2	754.1	708.6	678.3	644.2	613.8	617.7
77.5°	261.5	265.3	197.0	360.0	610.1	587.4	560.8	522.9	507.7	477.4	477.4
80°	197.0	208.4	147.8	246.3	439.6	439.6	416.8	390.3	363.8	348.7	348.7
82.5°	132.6	132.6	109.8	155.4	299.3	287.9	272.8	265.3	250.1	242.5	242.5
85°	60.6	75.8	68.2	94.7	162.9	170.6	170.6	162.9	159.2	151.5	155.4
87.5°	18.9	34.1	41.7	53.1	83.4	87.2	90.9	90.9	90.9	94.7	94.7
90°	17.9	32.2	46.6	50.1	78.7	116.8	135.9	120.8	90.6	68.0	68.0
92.5°	71.5	193.1	314.8	345.2	485.4	672.2	765.6	670.9	481.7	339.9	326.4
95°	171.7	394.3	616.9	672.5	1194.3	1890.0	2237.8	1996.9	1515.2	1153.8	1112.9
97.5°	296.9	493.3	689.7	738.8	1608.8	2768.7	3348.6	3196.4	2891.9	2663.5	2585.6
100°	393.5	571.6	749.7	794.2	1759.6	3046.7	3690.3	3701.3	3723.6	3740.4	3647.5
102.5°	475.8	642.0	808.1	849.7	1828.7	3134.2	3786.9	3980.9	4368.8	4659.8	4580.3
105°	615.4	756.1	896.8	932.0	1880.1	3144.1	3776.1	4211.0	5080.8	5733.0	5690.3
107.5°	758.5	889.7	1020.8	1053.6	1889.5	3004.1	3561.5	4168.1	5381.2	6291.1	6301.5
110°	855.0	973.5	1091.9	1121.6	1875.3	2880.1	3382.6	4060.8	5417.1	6434.3	6478.8



TEST NUMBER: P936009

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	949.9	1062.8	1175.7	1203.9	1875.9	2771.8	3219.8	3913.9	5302.0	6343.1	6411.4
115°	1093.0	1197.1	1301.3	1327.3	1893.2	2647.6	3024.9	3693.5	5030.7	6033.6	6128.4
117.5°	1234.3	1328.8	1423.5	1447.1	1928.3	2569.8	2890.7	3494.1	4700.9	5606.1	5711.2
120°	1316.5	1405.6	1494.6	1516.9	1956.9	2543.6	2837.0	3388.4	4491.0	5318.0	5420.2
122.5°	1397.0	1486.9	1576.7	1599.2	1998.1	2530.0	2795.9	3292.4	4285.4	5030.1	5130.9
125°	1520.5	1602.4	1684.3	1704.7	2053.6	2518.7	2751.2	3173.0	4016.4	4649.0	4741.9
127.5°	1620.6	1703.3	1786.0	1806.6	2108.9	2512.1	2713.6	3075.7	3800.0	4343.2	4421.5
130°	1674.3	1763.3	1852.3	1874.6	2149.5	2516.0	2699.3	3021.6	3666.5	4150.0	4222.4
132.5°	1729.8	1818.8	1907.8	1930.1	2182.3	2518.6	2686.7	2975.4	3552.6	3985.5	4050.3
135°	1812.0	1893.1	1974.2	1994.5	2218.1	2516.3	2665.3	2907.0	3390.4	3752.9	3808.7
137.5°	1896.1	1976.4	2056.7	2076.8	2271.7	2531.7	2661.7	2866.0	3274.7	3581.2	3626.9
140°	1965.9	2039.8	2113.8	2132.3	2304.5	2534.3	2649.2	2825.6	3178.7	3443.4	3486.1
142.5°	2019.6	2087.9	2156.3	2173.4	2332.0	2543.4	2649.2	2804.2	3114.3	3346.9	3383.7
145°	2101.9	2161.5	2221.1	2236.0	2367.7	2543.4	2631.3	2758.1	3011.7	3201.9	3229.8
147.5°	2184.1	2242.1	2300.1	2314.7	2420.2	2560.9	2631.3	2731.1	2930.6	3080.3	3103.4
150°	2237.8	2290.3	2342.8	2355.9	2447.6	2570.1	2631.3	2715.6	2884.2	3010.5	3029.2
152.5°	2293.3	2333.0	2372.7	2382.6	2465.5	2576.0	2631.3	2703.3	2847.2	2955.1	2969.2
155°	2375.6	2405.0	2434.4	2441.7	2504.9	2589.1	2631.3	2688.6	2803.1	2888.9	2898.3
157.5°	2436.4	2465.0	2493.5	2500.7	2544.2	2602.2	2631.3	2675.8	2764.8	2831.7	2838.3
160°	2477.5	2499.7	2522.0	2527.6	2562.2	2608.3	2631.3	2669.4	2745.7	2803.0	2806.8
162.5°	2518.6	2535.3	2551.9	2556.2	2581.2	2614.6	2631.3	2663.5	2727.9	2776.2	2779.8
165°	2563.3	2578.4	2593.5	2597.4	2608.6	2623.7	2631.3	2654.3	2700.4	2735.0	2738.8
167.5°	2604.5	2611.7	2618.8	2620.6	2630.1	2642.9	2649.2	2664.3	2694.5	2717.1	2718.8
170°	2631.3	2638.5	2645.6	2647.5	2648.0	2648.8	2649.2	2664.3	2694.5	2717.1	2717.1
172.5°	2645.6	2647.2	2648.8	2649.2	2649.2	2649.2	2649.2	2661.1	2685.0	2702.9	2701.5
175°	2665.3	2665.3	2665.3	2665.3	2660.0	2652.8	2649.2	2656.7	2671.8	2683.2	2683.2
177.5°	2665.3	2665.3	2665.3	2665.3	2661.1	2655.6	2652.8	2658.7	2670.7	2679.6	2677.9
180°	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3



TEST NUMBER: P936009

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4107.6	4096.3	4107.6	4100.0	4103.8	4092.4	4058.3	4046.9	4058.3	4069.7	4069.7
5°	4156.9	4149.3	4156.9	4156.9	4153.1	4145.5	4107.6	4100.0	4107.6	4111.4	4103.8
7.5°	4172.0	4160.7	4172.0	4164.4	4164.4	4156.9	4119.0	4111.4	4115.2	4126.6	4115.2
10°	4172.0	4160.7	4172.0	4168.3	4164.4	4156.9	4119.0	4103.8	4103.8	4115.2	4103.8
12.5°	4153.1	4145.5	4153.1	4145.5	4145.5	4138.0	4100.0	4084.9	4088.6	4092.4	4077.3
15°	4122.8	4111.4	4122.8	4115.2	4119.0	4107.6	4066.0	4050.8	4050.8	4058.3	4031.8
17.5°	4077.3	4062.1	4077.3	4073.5	4069.7	4062.1	4024.3	4009.1	4005.3	4009.1	3990.2
20°	4024.3	4012.9	4024.3	4020.5	4020.5	4005.3	3967.4	3948.5	3948.5	3948.5	3929.5
22.5°	3940.9	3929.5	3940.9	3948.5	3948.5	3944.6	3910.5	3884.0	3876.5	3876.5	3853.7
25°	3846.2	3834.8	3846.2	3846.2	3842.4	3846.2	3834.8	3819.6	3808.2	3796.8	3774.2
27.5°	3755.2	3747.6	3755.2	3747.6	3755.2	3743.8	3740.1	3736.2	3721.1	3709.8	3679.5
30°	3664.3	3656.7	3664.3	3656.7	3649.1	3641.5	3622.6	3615.0	3630.1	3622.6	3573.3
32.5°	3550.6	3543.0	3550.6	3550.6	3543.0	3543.0	3512.7	3501.4	3505.1	3527.8	3482.3
35°	3433.1	3421.7	3433.1	3429.4	3433.1	3421.7	3402.8	3399.0	3383.9	3410.3	3376.3
37.5°	3296.7	3285.3	3296.7	3296.7	3296.7	3304.3	3289.1	3277.7	3255.0	3289.1	3262.6
40°	3156.5	3141.3	3156.5	3152.7	3156.5	3164.1	3156.5	3148.9	3126.2	3152.7	3129.9
42.5°	2997.3	2993.5	2997.3	3001.2	3001.2	3016.3	3027.7	3012.5	3004.9	2986.0	3001.2
45°	2826.8	2819.2	2826.8	2834.4	2838.2	2845.7	2879.9	2879.9	2868.5	2838.2	2860.9
47.5°	2645.0	2626.0	2645.0	2667.7	2667.7	2679.0	2713.1	2739.7	2720.7	2682.8	2694.2
50°	2451.7	2455.5	2451.7	2466.9	2466.9	2508.5	2535.0	2561.6	2580.5	2535.0	2482.0
52.5°	2262.2	2258.5	2262.2	2273.6	2288.8	2307.7	2353.2	2379.7	2410.0	2383.5	2300.1
55°	2072.7	2080.4	2072.7	2076.5	2084.1	2095.5	2163.7	2190.2	2247.1	2212.9	2125.8
57.5°	1883.3	1871.9	1883.3	1890.9	1894.7	1906.0	1962.9	2012.1	2046.2	2050.0	1943.9
60°	1663.5	1648.3	1663.5	1697.6	1705.2	1712.8	1765.8	1811.3	1841.6	1853.0	1743.1
62.5°	1470.2	1443.8	1470.2	1493.0	1508.2	1527.1	1565.0	1633.2	1659.7	1663.5	1508.2
65°	1265.6	1254.3	1265.6	1311.1	1314.9	1337.6	1379.3	1428.6	1485.4	1477.8	1254.3
67.5°	1080.0	1080.0	1080.0	1110.3	1133.0	1144.3	1197.4	1220.1	1292.1	1299.8	1045.9
70°	909.4	905.6	909.4	932.2	947.3	973.9	1023.1	1049.6	1106.5	1125.4	848.8
72.5°	746.5	742.7	746.5	765.5	780.6	803.3	845.0	875.3	924.5	947.3	659.4
75°	602.5	594.9	602.5	617.7	613.8	644.2	678.3	708.6	754.1	769.2	488.8
77.5°	462.3	462.3	462.3	477.4	477.4	507.7	522.9	560.8	587.4	610.1	360.0
80°	344.8	341.0	344.8	348.7	348.7	363.8	390.3	416.8	439.6	439.6	246.3
82.5°	242.5	234.9	242.5	242.5	242.5	250.1	265.3	272.8	287.9	299.3	155.4
85°	151.5	151.5	151.5	155.4	151.5	159.2	162.9	170.6	170.6	162.9	94.7
87.5°	98.6	94.7	98.6	94.7	94.7	90.9	90.9	90.9	87.2	83.4	53.1
90°	68.0	68.0	68.0	68.0	68.0	90.6	120.8	135.9	116.8	78.7	50.1
92.5°	272.3	218.3	272.3	326.4	339.9	481.7	670.9	765.6	672.2	485.4	345.2
95°	949.0	785.3	949.0	1112.9	1153.8	1515.2	1996.9	2237.8	1890.0	1194.3	672.5
97.5°	2273.9	1962.3	2273.9	2585.6	2663.5	2891.9	3196.4	3348.6	2768.7	1608.8	738.8
100°	3276.3	2905.0	3276.3	3647.5	3740.4	3723.6	3701.3	3690.3	3046.7	1759.6	794.2
102.5°	4262.3	3944.3	4262.3	4580.3	4659.8	4368.8	3980.9	3786.9	3134.2	1828.7	849.7
105°	5519.5	5348.5	5519.5	5690.3	5733.0	5080.8	4211.0	3776.1	3144.1	1880.1	932.0
107.5°	6342.9	6384.2	6342.9	6301.5	6291.1	5381.2	4168.1	3561.5	3004.1	1889.5	1053.6
110°	6656.9	6835.0	6656.9	6478.8	6434.3	5417.1	4060.8	3382.6	2880.1	1875.3	1121.6



TEST NUMBER: P936009

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6684.9	6958.4	6684.9	6411.4	6343.1	5302.0	3913.9	3219.8	2771.8	1875.9	1203.9
115°	6507.6	6886.8	6507.6	6128.4	6033.6	5030.7	3693.5	3024.9	2647.6	1893.2	1327.3
117.5°	6131.8	6552.3	6131.8	5711.2	5606.1	4700.9	3494.1	2890.7	2569.8	1928.3	1447.1
120°	5828.8	6237.5	5828.8	5420.2	5318.0	4491.0	3388.4	2837.0	2543.6	1956.9	1516.9
122.5°	5534.0	5937.0	5534.0	5130.9	5030.1	4285.4	3292.4	2795.9	2530.0	1998.1	1599.2
125°	5113.2	5484.5	5113.2	4741.9	4649.0	4016.4	3173.0	2751.2	2518.7	2053.6	1704.7
127.5°	4734.8	5048.0	4734.8	4421.5	4343.2	3800.0	3075.7	2713.6	2512.1	2108.9	1806.6
130°	4511.7	4801.1	4511.7	4222.4	4150.0	3666.5	3021.6	2699.3	2516.0	2149.5	1874.6
132.5°	4309.4	4568.5	4309.4	4050.3	3985.5	3552.6	2975.4	2686.7	2518.6	2182.3	1930.1
135°	4032.1	4255.5	4032.1	3808.7	3752.9	3390.4	2907.0	2665.3	2516.3	2218.1	1994.5
137.5°	3809.8	3992.5	3809.8	3626.9	3581.2	3274.7	2866.0	2661.7	2531.7	2271.7	2076.8
140°	3657.1	3828.0	3657.1	3486.1	3443.4	3178.7	2825.6	2649.2	2534.3	2304.5	2132.3
142.5°	3530.7	3677.7	3530.7	3383.7	3346.9	3114.3	2804.2	2649.2	2543.4	2332.0	2173.4
145°	3341.1	3452.4	3341.1	3229.8	3201.9	3011.7	2758.1	2631.3	2543.4	2367.7	2236.0
147.5°	3195.6	3287.8	3195.6	3103.4	3080.3	2930.6	2731.1	2631.3	2560.9	2420.2	2314.7
150°	3103.9	3178.7	3103.9	3029.2	3010.5	2884.2	2715.6	2631.3	2570.1	2447.6	2355.9
152.5°	3025.6	3082.0	3025.6	2969.2	2955.1	2847.2	2703.3	2631.3	2576.0	2465.5	2382.6
155°	2935.6	2973.0	2935.6	2898.3	2888.9	2803.1	2688.6	2631.3	2589.1	2504.9	2441.7
157.5°	2864.5	2890.7	2864.5	2838.3	2831.7	2764.8	2675.8	2631.3	2602.2	2544.2	2500.7
160°	2821.9	2837.0	2821.9	2806.8	2803.0	2745.7	2669.4	2631.3	2608.3	2562.2	2527.6
162.5°	2794.1	2808.4	2794.1	2779.8	2776.2	2727.9	2663.5	2631.3	2614.6	2581.2	2556.2
165°	2753.9	2769.1	2753.9	2738.8	2735.0	2700.4	2654.3	2631.3	2623.7	2608.6	2597.4
167.5°	2725.1	2731.5	2725.1	2718.8	2717.1	2694.5	2664.3	2649.2	2642.9	2630.1	2620.6
170°	2717.1	2717.1	2717.1	2717.1	2717.1	2694.5	2664.3	2649.2	2648.8	2648.0	2647.5
172.5°	2695.9	2690.4	2695.9	2701.5	2702.9	2685.0	2661.1	2649.2	2649.2	2649.2	2649.2
175°	2683.2	2683.2	2683.2	2683.2	2683.2	2671.8	2656.7	2649.2	2652.8	2660.0	2665.3
177.5°	2671.6	2665.3	2671.6	2677.9	2679.6	2670.7	2658.7	2652.8	2655.6	2661.1	2665.3
180°	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3



TEST NUMBER: P936009

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4062.1	4039.4	4039.4	4001.5	3986.3	3975.0	3956.0	3899.2	3884.0	3868.8	3891.6
5°	4096.3	4054.6	4024.3	3956.0	3899.2	3876.5	3804.5	3668.1	3577.1	3508.9	3471.0
7.5°	4103.8	4050.8	3993.9	3887.9	3751.4	3690.8	3471.0	3221.0	3152.7	3092.1	3054.1
10°	4096.3	4035.7	3956.0	3796.8	3474.8	3368.7	3148.9	2986.0	2944.3	2932.9	2944.3
12.5°	4069.7	4012.9	3903.0	3637.8	3186.8	3114.8	2986.0	2891.2	2883.7	2902.6	3004.9
15°	4024.3	3971.2	3842.4	3425.5	3027.7	2974.6	2883.7	2849.5	2891.2	3023.8	3330.8
17.5°	3978.8	3918.2	3759.0	3217.1	2906.4	2868.5	2804.0	2872.3	3107.2	3285.3	3387.7
20°	3918.2	3846.2	3664.3	3065.5	2819.2	2785.1	2754.8	3061.8	3239.9	3304.3	3361.1
22.5°	3846.2	3770.4	3535.4	2959.5	2728.3	2701.8	2720.7	3167.9	3239.9	3285.3	3334.6
25°	3751.4	3687.0	3383.9	2876.1	2656.3	2626.0	2698.0	3156.5	3198.2	3209.6	3308.0
27.5°	3664.3	3580.9	3224.7	2800.3	2569.2	2557.8	2717.0	3107.2	3137.6	3148.9	3255.0
30°	3558.1	3433.1	3046.6	2720.7	2478.2	2474.4	2720.7	3046.6	3039.0	3069.3	3175.4
32.5°	3448.3	3213.3	2845.7	2622.2	2391.1	2387.2	2694.2	2955.7	2948.1	2989.8	3069.3
35°	3346.0	3042.9	2573.0	2508.5	2281.2	2284.9	2629.8	2849.5	2853.4	2891.2	2940.5
37.5°	3239.9	2895.1	2273.6	2383.5	2175.1	2175.1	2542.6	2751.1	2743.4	2754.8	2823.1
40°	3114.8	2663.9	2008.4	2220.5	2076.5	2065.2	2436.6	2645.0	2618.4	2614.7	2709.4
42.5°	2982.1	2410.0	1811.3	2004.5	1962.9	1947.7	2307.7	2516.1	2466.9	2478.2	2599.5
45°	2838.2	2341.8	1659.7	1693.8	1845.4	1834.0	2167.4	2368.3	2334.2	2364.6	2489.6
47.5°	2694.2	2205.4	1610.5	1405.8	1720.3	1716.6	2012.1	2224.3	2205.4	2235.7	2368.3
50°	2497.2	2053.8	1606.7	1205.0	1580.2	1595.3	1826.4	2084.1	2084.1	2110.7	2250.8
52.5°	2243.3	1868.1	1458.9	1091.3	1417.2	1462.7	1663.5	1962.9	1970.4	1997.0	2122.0
55°	2012.1	1674.9	1352.7	1004.2	1224.0	1322.4	1504.4	1837.8	1853.0	1879.5	1993.2
57.5°	1800.0	1394.4	1330.1	901.9	1045.9	1140.6	1364.1	1716.6	1724.1	1746.9	1856.7
60°	1572.5	1007.9	1220.1	792.0	890.5	962.5	1235.3	1572.5	1599.1	1614.2	1708.9
62.5°	1314.9	731.3	1106.5	716.1	814.7	829.9	1129.2	1436.1	1470.2	1481.6	1538.5
65°	935.9	613.8	939.7	651.8	735.2	738.9	1015.6	1296.0	1326.3	1345.2	1386.9
67.5°	632.8	500.2	716.1	591.1	674.5	678.3	905.6	1133.0	1174.6	1189.8	1216.4
70°	439.6	333.5	530.5	526.8	606.3	613.8	788.2	985.3	1023.1	1034.5	1049.6
72.5°	322.1	269.0	439.6	473.7	534.3	541.9	666.9	818.5	856.4	867.8	875.3
75°	246.3	284.2	356.2	413.0	454.7	458.5	545.7	666.9	693.5	701.0	704.8
77.5°	197.0	265.3	261.5	333.5	371.3	363.8	428.2	515.4	538.0	538.0	538.0
80°	147.8	208.4	197.0	238.7	272.8	265.3	307.0	367.6	375.1	382.7	379.0
82.5°	109.8	132.6	132.6	151.5	181.9	174.3	204.6	238.7	238.7	238.7	246.3
85°	68.2	75.8	60.6	79.5	102.3	98.6	113.7	128.9	132.6	132.6	125.0
87.5°	41.7	34.1	18.9	30.3	45.5	45.5	53.1	56.9	53.1	53.1	53.1
90°	46.6	32.2	17.9	32.2	46.6	50.1	78.7	116.8	135.9	120.8	90.6
92.5°	314.8	193.1	71.5	193.1	314.8	345.2	485.4	672.2	765.6	670.9	481.7
95°	616.9	394.3	171.7	394.3	616.9	672.5	1194.3	1890.0	2237.8	1996.9	1515.2
97.5°	689.7	493.3	296.9	493.3	689.7	738.8	1608.8	2768.7	3348.6	3196.4	2891.9
100°	749.7	571.6	393.5	571.6	749.7	794.2	1759.6	3046.7	3690.3	3701.3	3723.6
102.5°	808.1	642.0	475.8	642.0	808.1	849.7	1828.7	3134.2	3786.9	3980.9	4368.8
105°	896.8	756.1	615.4	756.1	896.8	932.0	1880.1	3144.1	3776.1	4211.0	5080.8
107.5°	1020.8	889.7	758.5	889.7	1020.8	1053.6	1889.5	3004.1	3561.5	4168.1	5381.2
110°	1091.9	973.5	855.0	973.5	1091.9	1121.6	1875.3	2880.1	3382.6	4060.8	5417.1



TEST NUMBER: P936009

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1175.7	1062.8	949.9	1062.8	1175.7	1203.9	1875.9	2771.8	3219.8	3913.9	5302.0
115°	1301.3	1197.1	1093.0	1197.1	1301.3	1327.3	1893.2	2647.6	3024.9	3693.5	5030.7
117.5°	1423.5	1328.8	1234.3	1328.8	1423.5	1447.1	1928.3	2569.8	2890.7	3494.1	4700.9
120°	1494.6	1405.6	1316.5	1405.6	1494.6	1516.9	1956.9	2543.6	2837.0	3388.4	4491.0
122.5°	1576.7	1486.9	1397.0	1486.9	1576.7	1599.2	1998.1	2530.0	2795.9	3292.4	4285.4
125°	1684.3	1602.4	1520.5	1602.4	1684.3	1704.7	2053.6	2518.7	2751.2	3173.0	4016.4
127.5°	1786.0	1703.3	1620.6	1703.3	1786.0	1806.6	2108.9	2512.1	2713.6	3075.7	3800.0
130°	1852.3	1763.3	1674.3	1763.3	1852.3	1874.6	2149.5	2516.0	2699.3	3021.6	3666.5
132.5°	1907.8	1818.8	1729.8	1818.8	1907.8	1930.1	2182.3	2518.6	2686.7	2975.4	3552.6
135°	1974.2	1893.1	1812.0	1893.1	1974.2	1994.5	2218.1	2516.3	2665.3	2907.0	3390.4
137.5°	2056.7	1976.4	1896.1	1976.4	2056.7	2076.8	2271.7	2531.7	2661.7	2866.0	3274.7
140°	2113.8	2039.8	1965.9	2039.8	2113.8	2132.3	2304.5	2534.3	2649.2	2825.6	3178.7
142.5°	2156.3	2087.9	2019.6	2087.9	2156.3	2173.4	2332.0	2543.4	2649.2	2804.2	3114.3
145°	2221.1	2161.5	2101.9	2161.5	2221.1	2236.0	2367.7	2543.4	2631.3	2758.1	3011.7
147.5°	2300.1	2242.1	2184.1	2242.1	2300.1	2314.7	2420.2	2560.9	2631.3	2731.1	2930.6
150°	2342.8	2290.3	2237.8	2290.3	2342.8	2355.9	2447.6	2570.1	2631.3	2715.6	2884.2
152.5°	2372.7	2333.0	2293.3	2333.0	2372.7	2382.6	2465.5	2576.0	2631.3	2703.3	2847.2
155°	2434.4	2405.0	2375.6	2405.0	2434.4	2441.7	2504.9	2589.1	2631.3	2688.6	2803.1
157.5°	2493.5	2465.0	2436.4	2465.0	2493.5	2500.7	2544.2	2602.2	2631.3	2675.8	2764.8
160°	2522.0	2499.7	2477.5	2499.7	2522.0	2527.6	2562.2	2608.3	2631.3	2669.4	2745.7
162.5°	2551.9	2535.3	2518.6	2535.3	2551.9	2556.2	2581.2	2614.6	2631.3	2663.5	2727.9
165°	2593.5	2578.4	2563.3	2578.4	2593.5	2597.4	2608.6	2623.7	2631.3	2654.3	2700.4
167.5°	2618.8	2611.7	2604.5	2611.7	2618.8	2620.6	2630.1	2642.9	2649.2	2664.3	2694.5
170°	2645.6	2638.5	2631.3	2638.5	2645.6	2647.5	2648.0	2648.8	2649.2	2664.3	2694.5
172.5°	2648.8	2647.2	2645.6	2647.2	2648.8	2649.2	2649.2	2649.2	2649.2	2661.1	2685.0
175°	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2660.0	2652.8	2649.2	2656.7	2671.8
177.5°	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2661.1	2655.6	2652.8	2658.7	2670.7
180°	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3



TEST NUMBER: P936009

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	3865.1	3853.7	3868.8	3827.2	3868.8	3853.7	3865.1	3891.6	3868.8	3884.0	3899.2
5°	3391.4	3372.5	3311.9	3262.6	3311.9	3372.5	3391.4	3471.0	3508.9	3577.1	3668.1
7.5°	3031.5	3016.3	3001.2	2970.8	3001.2	3016.3	3031.5	3054.1	3092.1	3152.7	3221.0
10°	2951.8	2955.7	2978.4	2974.6	2978.4	2955.7	2951.8	2944.3	2932.9	2944.3	2986.0
12.5°	3156.5	3190.6	3315.6	3308.0	3315.6	3190.6	3156.5	3004.9	2902.6	2883.7	2891.2
15°	3391.4	3402.8	3429.4	3433.1	3429.4	3402.8	3391.4	3330.8	3023.8	2891.2	2849.5
17.5°	3414.2	3418.0	3436.9	3436.9	3436.9	3418.0	3414.2	3387.7	3285.3	3107.2	2872.3
20°	3395.2	3402.8	3440.6	3448.3	3440.6	3402.8	3395.2	3361.1	3304.3	3239.9	3061.8
22.5°	3387.7	3402.8	3433.1	3429.4	3433.1	3402.8	3387.7	3334.6	3285.3	3239.9	3167.9
25°	3349.7	3349.7	3353.6	3357.3	3353.6	3349.7	3349.7	3308.0	3209.6	3198.2	3156.5
27.5°	3270.2	3277.7	3300.5	3296.7	3300.5	3277.7	3270.2	3255.0	3148.9	3137.6	3107.2
30°	3198.2	3190.6	3171.6	3156.5	3171.6	3190.6	3198.2	3175.4	3069.3	3039.0	3046.6
32.5°	3076.9	3058.0	3039.0	3027.7	3039.0	3058.0	3076.9	3069.3	2989.8	2948.1	2955.7
35°	2932.9	2936.7	2932.9	2921.5	2932.9	2936.7	2932.9	2940.5	2891.2	2853.4	2849.5
37.5°	2830.6	2838.2	2834.4	2819.2	2834.4	2838.2	2830.6	2823.1	2754.8	2743.4	2751.1
40°	2724.5	2728.3	2724.5	2713.1	2724.5	2728.3	2724.5	2709.4	2614.7	2618.4	2645.0
42.5°	2622.2	2618.4	2607.0	2599.5	2607.0	2618.4	2622.2	2599.5	2478.2	2466.9	2516.1
45°	2504.7	2508.5	2485.8	2474.4	2485.8	2508.5	2504.7	2489.6	2364.6	2334.2	2368.3
47.5°	2387.2	2387.2	2368.3	2356.9	2368.3	2387.2	2387.2	2368.3	2235.7	2205.4	2224.3
50°	2262.2	2258.5	2231.9	2228.1	2231.9	2258.5	2262.2	2250.8	2110.7	2084.1	2084.1
52.5°	2118.2	2118.2	2122.0	2129.6	2122.0	2118.2	2118.2	2122.0	1997.0	1970.4	1962.9
55°	1993.2	1997.0	2023.5	2031.0	2023.5	1997.0	1993.2	1993.2	1879.5	1853.0	1837.8
57.5°	1864.3	1864.3	1883.3	1883.3	1883.3	1864.3	1864.3	1856.7	1746.9	1724.1	1716.6
60°	1716.6	1724.1	1739.3	1735.5	1739.3	1724.1	1716.6	1708.9	1614.2	1599.1	1572.5
62.5°	1561.1	1568.8	1572.5	1565.0	1572.5	1568.8	1561.1	1538.5	1481.6	1470.2	1436.1
65°	1398.2	1405.8	1409.6	1402.1	1409.6	1405.8	1398.2	1386.9	1345.2	1326.3	1296.0
67.5°	1231.5	1227.7	1224.0	1239.1	1224.0	1227.7	1231.5	1216.4	1189.8	1174.6	1133.0
70°	1061.0	1061.0	1057.2	1064.8	1057.2	1061.0	1061.0	1049.6	1034.5	1023.1	985.3
72.5°	879.1	875.3	890.5	879.1	890.5	875.3	879.1	875.3	867.8	856.4	818.5
75°	701.0	708.6	701.0	712.4	701.0	708.6	701.0	704.8	701.0	693.5	666.9
77.5°	534.3	541.9	534.3	534.3	534.3	541.9	534.3	538.0	538.0	538.0	515.4
80°	379.0	375.1	375.1	371.3	375.1	375.1	379.0	379.0	382.7	375.1	367.6
82.5°	242.5	238.7	238.7	246.3	238.7	238.7	242.5	246.3	238.7	238.7	238.7
85°	132.6	136.4	128.9	128.9	128.9	136.4	132.6	125.0	132.6	132.6	128.9
87.5°	49.2	45.5	45.5	45.5	45.5	45.5	49.2	53.1	53.1	53.1	56.9
90°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	90.6	120.8	135.9	116.8
92.5°	339.9	326.4	272.3	218.3	272.3	326.4	339.9	481.7	670.9	765.6	672.2
95°	1153.8	1112.9	949.0	785.3	949.0	1112.9	1153.8	1515.2	1996.9	2237.8	1890.0
97.5°	2663.5	2585.6	2273.9	1962.3	2273.9	2585.6	2663.5	2891.9	3196.4	3348.6	2768.7
100°	3740.4	3647.5	3276.3	2905.0	3276.3	3647.5	3740.4	3723.6	3701.3	3690.3	3046.7
102.5°	4659.8	4580.3	4262.3	3944.3	4262.3	4580.3	4659.8	4368.8	3980.9	3786.9	3134.2
105°	5733.0	5690.3	5519.5	5348.5	5519.5	5690.3	5733.0	5080.8	4211.0	3776.1	3144.1
107.5°	6291.1	6301.5	6342.9	6384.2	6342.9	6301.5	6291.1	5381.2	4168.1	3561.5	3004.1
110°	6434.3	6478.8	6656.9	6835.0	6656.9	6478.8	6434.3	5417.1	4060.8	3382.6	2880.1



TEST NUMBER: P936009

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6343.1	6411.4	6684.9	6958.4	6684.9	6411.4	6343.1	5302.0	3913.9	3219.8	2771.8
115°	6033.6	6128.4	6507.6	6886.8	6507.6	6128.4	6033.6	5030.7	3693.5	3024.9	2647.6
117.5°	5606.1	5711.2	6131.8	6552.3	6131.8	5711.2	5606.1	4700.9	3494.1	2890.7	2569.8
120°	5318.0	5420.2	5828.8	6237.5	5828.8	5420.2	5318.0	4491.0	3388.4	2837.0	2543.6
122.5°	5030.1	5130.9	5534.0	5937.0	5534.0	5130.9	5030.1	4285.4	3292.4	2795.9	2530.0
125°	4649.0	4741.9	5113.2	5484.5	5113.2	4741.9	4649.0	4016.4	3173.0	2751.2	2518.7
127.5°	4343.2	4421.5	4734.8	5048.0	4734.8	4421.5	4343.2	3800.0	3075.7	2713.6	2512.1
130°	4150.0	4222.4	4511.7	4801.1	4511.7	4222.4	4150.0	3666.5	3021.6	2699.3	2516.0
132.5°	3985.5	4050.3	4309.4	4568.5	4309.4	4050.3	3985.5	3552.6	2975.4	2686.7	2518.6
135°	3752.9	3808.7	4032.1	4255.5	4032.1	3808.7	3752.9	3390.4	2907.0	2665.3	2516.3
137.5°	3581.2	3626.9	3809.8	3992.5	3809.8	3626.9	3581.2	3274.7	2866.0	2661.7	2531.7
140°	3443.4	3486.1	3657.1	3828.0	3657.1	3486.1	3443.4	3178.7	2825.6	2649.2	2534.3
142.5°	3346.9	3383.7	3530.7	3677.7	3530.7	3383.7	3346.9	3114.3	2804.2	2649.2	2543.4
145°	3201.9	3229.8	3341.1	3452.4	3341.1	3229.8	3201.9	3011.7	2758.1	2631.3	2543.4
147.5°	3080.3	3103.4	3195.6	3287.8	3195.6	3103.4	3080.3	2930.6	2731.1	2631.3	2560.9
150°	3010.5	3029.2	3103.9	3178.7	3103.9	3029.2	3010.5	2884.2	2715.6	2631.3	2570.1
152.5°	2955.1	2969.2	3025.6	3082.0	3025.6	2969.2	2955.1	2847.2	2703.3	2631.3	2576.0
155°	2888.9	2898.3	2935.6	2973.0	2935.6	2898.3	2888.9	2803.1	2688.6	2631.3	2589.1
157.5°	2831.7	2838.3	2864.5	2890.7	2864.5	2838.3	2831.7	2764.8	2675.8	2631.3	2602.2
160°	2803.0	2806.8	2821.9	2837.0	2821.9	2806.8	2803.0	2745.7	2669.4	2631.3	2608.3
162.5°	2776.2	2779.8	2794.1	2808.4	2794.1	2779.8	2776.2	2727.9	2663.5	2631.3	2614.6
165°	2735.0	2738.8	2753.9	2769.1	2753.9	2738.8	2735.0	2700.4	2654.3	2631.3	2623.7
167.5°	2717.1	2718.8	2725.1	2731.5	2725.1	2718.8	2717.1	2694.5	2664.3	2649.2	2642.9
170°	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2694.5	2664.3	2649.2	2648.8
172.5°	2702.9	2701.5	2695.9	2690.4	2695.9	2701.5	2702.9	2685.0	2661.1	2649.2	2649.2
175°	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2671.8	2656.7	2649.2	2652.8
177.5°	2679.6	2677.9	2671.6	2665.3	2671.6	2677.9	2679.6	2670.7	2658.7	2652.8	2655.6
180°	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3	2665.3



TEST NUMBER: P936009
 CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	3956.0	3975.0	3986.3	4001.5	4039.4
5°	3804.5	3876.5	3899.2	3956.0	4024.3
7.5°	3471.0	3690.8	3751.4	3887.9	3993.9
10°	3148.9	3368.7	3474.8	3796.8	3956.0
12.5°	2986.0	3114.8	3186.8	3637.8	3903.0
15°	2883.7	2974.6	3027.7	3425.5	3842.4
17.5°	2804.0	2868.5	2906.4	3217.1	3759.0
20°	2754.8	2785.1	2819.2	3065.5	3664.3
22.5°	2720.7	2701.8	2728.3	2959.5	3535.4
25°	2698.0	2626.0	2656.3	2876.1	3383.9
27.5°	2717.0	2557.8	2569.2	2800.3	3224.7
30°	2720.7	2474.4	2478.2	2720.7	3046.6
32.5°	2694.2	2387.2	2391.1	2622.2	2845.7
35°	2629.8	2284.9	2281.2	2508.5	2573.0
37.5°	2542.6	2175.1	2175.1	2383.5	2273.6
40°	2436.6	2065.2	2076.5	2220.5	2008.4
42.5°	2307.7	1947.7	1962.9	2004.5	1811.3
45°	2167.4	1834.0	1845.4	1693.8	1659.7
47.5°	2012.1	1716.6	1720.3	1405.8	1610.5
50°	1826.4	1595.3	1580.2	1205.0	1606.7
52.5°	1663.5	1462.7	1417.2	1091.3	1458.9
55°	1504.4	1322.4	1224.0	1004.2	1352.7
57.5°	1364.1	1140.6	1045.9	901.9	1330.1
60°	1235.3	962.5	890.5	792.0	1220.1
62.5°	1129.2	829.9	814.7	716.1	1106.5
65°	1015.6	738.9	735.2	651.8	939.7
67.5°	905.6	678.3	674.5	591.1	716.1
70°	788.2	613.8	606.3	526.8	530.5
72.5°	666.9	541.9	534.3	473.7	439.6
75°	545.7	458.5	454.7	413.0	356.2
77.5°	428.2	363.8	371.3	333.5	261.5
80°	307.0	265.3	272.8	238.7	197.0
82.5°	204.6	174.3	181.9	151.5	132.6
85°	113.7	98.6	102.3	79.5	60.6
87.5°	53.1	45.5	45.5	30.3	18.9
90°	78.7	50.1	46.6	32.2	17.9
92.5°	485.4	345.2	314.8	193.1	71.5
95°	1194.3	672.5	616.9	394.3	171.7
97.5°	1608.8	738.8	689.7	493.3	296.9
100°	1759.6	794.2	749.7	571.6	393.5
102.5°	1828.7	849.7	808.1	642.0	475.8
105°	1880.1	932.0	896.8	756.1	615.4
107.5°	1889.5	1053.6	1020.8	889.7	758.5
110°	1875.3	1121.6	1091.9	973.5	855.0



TEST NUMBER: P936009

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1875.9	1203.9	1175.7	1062.8	949.9
115°	1893.2	1327.3	1301.3	1197.1	1093.0
117.5°	1928.3	1447.1	1423.5	1328.8	1234.3
120°	1956.9	1516.9	1494.6	1405.6	1316.5
122.5°	1998.1	1599.2	1576.7	1486.9	1397.0
125°	2053.6	1704.7	1684.3	1602.4	1520.5
127.5°	2108.9	1806.6	1786.0	1703.3	1620.6
130°	2149.5	1874.6	1852.3	1763.3	1674.3
132.5°	2182.3	1930.1	1907.8	1818.8	1729.8
135°	2218.1	1994.5	1974.2	1893.1	1812.0
137.5°	2271.7	2076.8	2056.7	1976.4	1896.1
140°	2304.5	2132.3	2113.8	2039.8	1965.9
142.5°	2332.0	2173.4	2156.3	2087.9	2019.6
145°	2367.7	2236.0	2221.1	2161.5	2101.9
147.5°	2420.2	2314.7	2300.1	2242.1	2184.1
150°	2447.6	2355.9	2342.8	2290.3	2237.8
152.5°	2465.5	2382.6	2372.7	2333.0	2293.3
155°	2504.9	2441.7	2434.4	2405.0	2375.6
157.5°	2544.2	2500.7	2493.5	2465.0	2436.4
160°	2562.2	2527.6	2522.0	2499.7	2477.5
162.5°	2581.2	2556.2	2551.9	2535.3	2518.6
165°	2608.6	2597.4	2593.5	2578.4	2563.3
167.5°	2630.1	2620.6	2618.8	2611.7	2604.5
170°	2648.0	2647.5	2645.6	2638.5	2631.3
172.5°	2649.2	2649.2	2648.8	2647.2	2645.6
175°	2660.0	2665.3	2665.3	2665.3	2665.3
177.5°	2661.1	2665.3	2665.3	2665.3	2665.3
180°	2665.3	2665.3	2665.3	2665.3	2665.3



TEST NUMBER: P936009
 CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-12

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	12.28	13.04	13.34	14.10	15.54	15.14	15.89	16.19	16.96	18.39
	3H	12.75	13.43	13.82	14.50	15.96	16.48	17.16	17.55	18.23	19.69
	4H	12.94	13.58	14.02	14.66	16.12	16.92	17.57	18.00	18.64	20.10
	6H	13.05	13.65	14.14	14.72	16.20	17.21	17.80	18.30	18.88	20.35
	8H	13.05	13.62	14.14	14.71	16.18	17.28	17.85	18.37	18.94	20.41
	12H	13.02	13.55	14.11	14.64	16.13	17.32	17.86	18.42	18.94	20.44
4H	2H	13.31	13.95	14.39	15.02	16.49	15.53	16.18	16.62	17.25	18.71
	3H	14.33	14.86	15.42	15.96	17.44	17.03	17.57	18.13	18.67	20.15
	4H	14.60	15.09	15.70	16.18	17.68	17.56	18.05	18.66	19.14	20.64
	6H	14.72	15.14	15.82	16.25	17.74	17.93	18.35	19.03	19.46	20.95
	8H	14.72	15.12	15.83	16.22	17.73	18.03	18.43	19.14	19.53	21.04
	12H	14.68	15.04	15.81	16.16	17.67	18.09	18.45	19.21	19.56	21.08
8H	4H	15.05	15.44	16.15	16.55	18.05	17.68	18.07	18.78	19.18	20.68
	6H	15.30	15.63	16.43	16.78	18.28	18.11	18.44	19.24	19.59	21.09
	8H	15.35	15.63	16.48	16.76	18.28	18.27	18.55	19.40	19.68	21.20
	12H	15.32	15.58	16.46	16.70	18.26	18.37	18.62	19.50	19.74	21.30
12H	4H	15.05	15.41	16.17	16.52	18.03	17.64	17.99	18.76	19.11	20.62
	6H	15.37	15.65	16.50	16.78	18.30	18.11	18.40	19.24	19.52	21.05
	8H	15.43	15.68	16.56	16.80	18.36	18.27	18.52	19.41	19.65	21.21