

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: P936013

Luminaire Tested: SQ4-FA-150U-100D-835-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

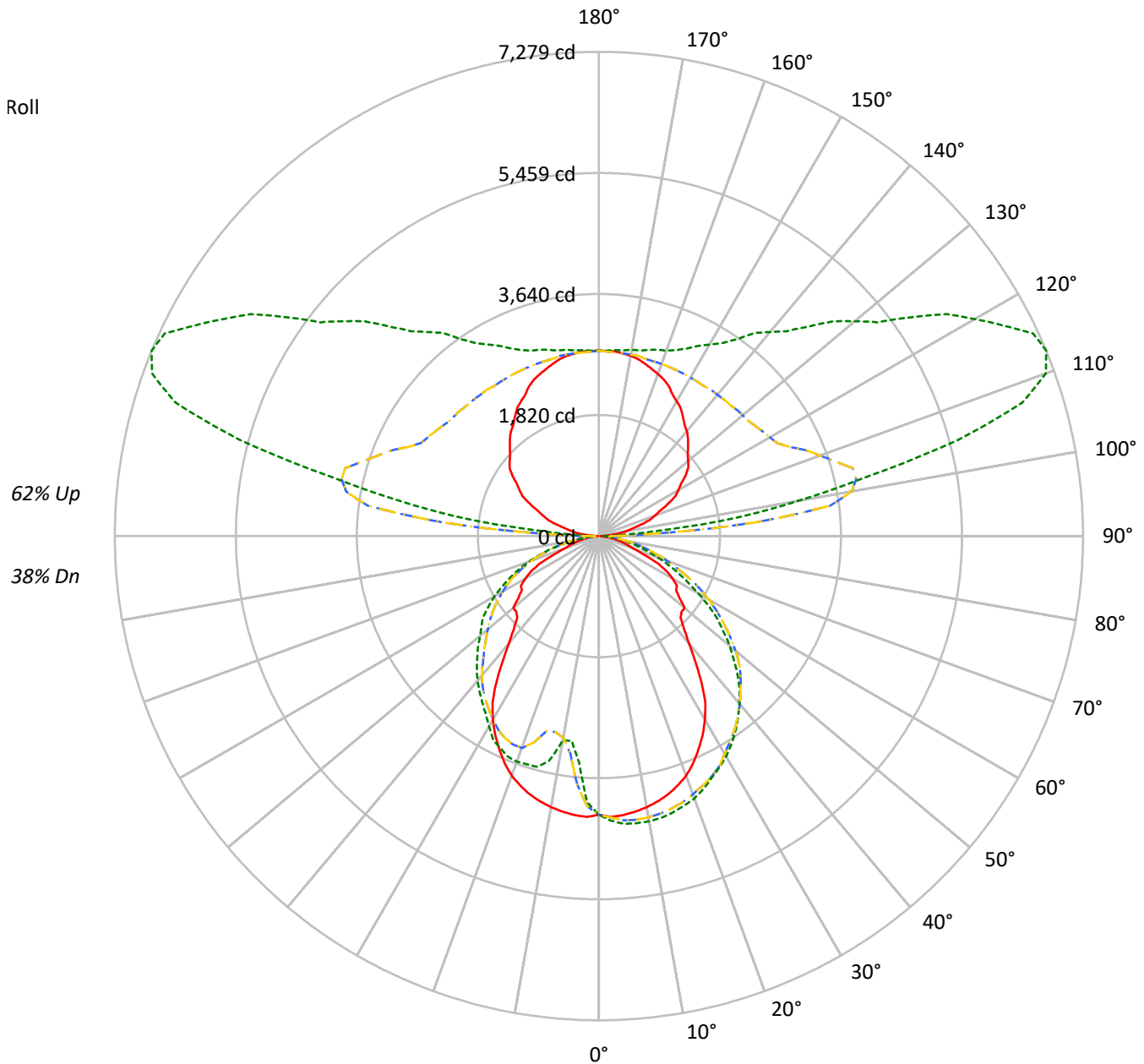
Test Method: LM-79-2019  
Report Number: P936013  
REPORT IS A COMBINATION OF REPORTS P933777 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28947.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 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				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	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°	12959	12959	12959	12959
5°	13061	13082	13061	10286
10°	12978	12886	12978	9212
15°	12842	12607	12842	10527
20°	12578	12276	12578	10549
25°	12033	11794	12033	10325
30°	11327	11393	11327	9835
35°	10104	10886	10104	9295
40°	8424	10290	8424	8888
45°	7531	9592	7531	8419
50°	8007	8760	8007	7949
55°	7541	7863	7541	7676
60°	7783	6678	7783	7031
65°	7068	5520	7068	6171
70°	4906	4399	4906	5172
75°	4319	3252	4319	3894
80°	3505	2150	3505	2341
85°	2054	1138	2054	968

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11536 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.2	1.3
10°-20°	1073.8	3.7
20°-30°	1659.9	5.7
30°-40°	1981.5	6.8
40°-50°	1993.2	6.9
50°-60°	1734.3	6.0
60°-70°	1229.6	4.2
70°-80°	650.5	2.2
80°-90°	172.7	0.6
90°-100°	1359.0	4.7
100°-110°	3572.9	12.3
110°-120°	3704.7	12.8
120°-130°	2971.6	10.3
130°-140°	2331.7	8.1
140°-150°	1789.6	6.2
150°-160°	1288.8	4.5
160°-170°	788.6	2.7
170°-180°	266.4	0.9
0°-30°	3111.8	10.8
0°-40°	5093.4	17.6
0°-60°	8820.8	30.5
0°-90°	10873.6	37.6
90°-120°	8636.6	29.8
90°-150°	15729.5	54.3
90°-180°	18073.0	62.4
0°-180°	28947.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4190	4190	4190	4190	4190	
5°	4210	4340	4210	3413	4210	399
15°	4019	4301	4019	3591	4019	1131
25°	3540	4011	3540	3512	3540	1625
35°	2691	3579	2691	3056	2691	1665
45°	1736	2949	1736	2588	1736	1391
55°	1415	2176	1415	2124	1415	1300
65°	983	1312	983	1467	983	939
75°	373	622	373	745	373	392
85°	63	158	63	135	63	86
90°	19	71	19	71	19	18
95°	180	821	180	821	180	199
105°	644	5595	644	5595	644	682
115°	1143	7204	1143	7204	1143	1129
125°	1590	5737	1590	5737	1590	1412
135°	1895	4451	1895	4451	1895	1467
145°	2199	3611	2199	3611	2199	1377
155°	2485	3110	2485	3110	2485	1142
165°	2681	2896	2681	2896	2681	757
175°	2788	2807	2788	2807	2788	265
180°	2788	2788	2788	2788	2788	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4225.3	4225.3	4249.1	4257.0	4257.0	4245.1	4233.2	4245.1	4280.8	4292.7	4288.7
5°	4209.5	4241.2	4284.8	4292.7	4300.6	4296.7	4288.7	4296.7	4336.3	4344.2	4348.2
7.5°	4177.7	4237.2	4292.7	4304.6	4316.5	4304.6	4300.6	4308.6	4348.2	4356.1	4356.1
10°	4138.1	4221.4	4284.8	4292.7	4304.6	4292.7	4292.7	4308.6	4348.2	4356.1	4360.1
12.5°	4082.6	4197.6	4257.0	4265.0	4280.8	4276.8	4272.9	4288.7	4328.4	4336.3	4336.3
15°	4019.2	4154.0	4209.5	4217.4	4245.1	4237.2	4237.2	4253.1	4296.7	4308.6	4304.6
17.5°	3932.0	4098.5	4161.9	4173.8	4193.6	4189.6	4193.6	4209.5	4249.1	4257.0	4261.0
20°	3832.9	4023.2	4098.5	4110.4	4130.2	4130.2	4130.2	4150.0	4189.6	4205.5	4205.5
22.5°	3698.1	3943.9	4023.2	4031.1	4054.9	4054.9	4062.8	4090.5	4126.2	4130.2	4130.2
25°	3539.6	3856.7	3924.1	3947.9	3971.6	3983.5	3995.4	4011.3	4023.2	4019.2	4023.2
27.5°	3373.1	3745.7	3832.9	3848.8	3880.5	3892.4	3908.2	3912.2	3916.1	3928.0	3920.1
30°	3186.8	3591.1	3721.9	3737.8	3789.3	3797.2	3781.4	3789.3	3809.1	3817.1	3825.0
32.5°	2976.7	3361.2	3607.0	3642.6	3690.2	3666.4	3662.5	3674.4	3706.1	3706.1	3714.0
35°	2691.4	3182.9	3500.0	3531.7	3567.3	3539.6	3555.4	3559.4	3579.2	3591.1	3587.2
37.5°	2378.2	3028.3	3389.0	3412.8	3440.5	3404.8	3428.6	3440.5	3456.4	3448.4	3448.4
40°	2100.8	2786.5	3258.2	3274.0	3297.8	3270.1	3293.8	3301.8	3309.7	3301.8	3297.8
42.5°	1894.7	2520.9	3119.4	3139.3	3123.4	3143.2	3151.1	3167.0	3155.1	3139.3	3139.3
45°	1736.1	2449.6	2968.8	2992.6	2968.8	3000.5	3012.4	3012.4	2976.7	2968.8	2964.9
47.5°	1684.6	2306.9	2818.2	2818.2	2806.3	2845.9	2865.8	2838.0	2802.3	2790.5	2790.5
50°	1680.6	2148.3	2612.1	2596.2	2651.7	2699.3	2679.5	2651.7	2624.0	2580.4	2580.4
52.5°	1526.0	1954.1	2346.5	2406.0	2493.2	2520.9	2489.2	2461.5	2413.9	2394.1	2378.2
55°	1415.0	1752.0	2104.7	2223.6	2314.8	2350.5	2291.0	2263.3	2191.9	2180.0	2172.1
57.5°	1391.3	1458.6	1882.8	2033.4	2144.4	2140.4	2104.7	2053.2	1993.7	1981.9	1977.9
60°	1276.3	1054.3	1644.9	1823.3	1938.3	1926.4	1894.7	1847.1	1791.6	1783.7	1775.7
62.5°	1157.4	765.0	1375.4	1577.6	1740.1	1736.1	1708.4	1637.0	1597.4	1577.6	1561.7
65°	983.0	642.1	979.0	1312.0	1545.8	1553.8	1494.3	1442.8	1399.2	1375.4	1371.4
67.5°	749.1	523.2	661.9	1094.0	1359.6	1351.6	1276.3	1252.5	1197.0	1185.1	1161.4
70°	554.9	348.8	459.8	887.9	1177.2	1157.4	1097.9	1070.2	1018.7	990.9	975.1
72.5°	459.8	281.4	336.9	689.7	990.9	967.1	915.6	883.9	840.3	816.5	800.7
75°	372.6	297.3	257.6	511.3	804.6	788.8	741.2	709.5	673.8	642.1	646.1
77.5°	273.5	277.5	206.1	376.6	638.2	614.4	586.6	547.0	531.1	499.4	499.4
80°	206.1	218.0	154.6	257.6	459.8	459.8	436.0	408.3	380.5	364.7	364.7
82.5°	138.7	138.7	114.9	162.5	313.1	301.2	285.4	277.5	261.6	253.7	253.7
85°	63.4	79.3	71.3	99.1	170.4	178.4	178.4	170.4	166.5	158.5	162.5
87.5°	19.8	35.7	43.6	55.5	87.2	91.2	95.1	95.1	95.1	99.1	99.1
90°	18.7	33.7	48.7	52.4	82.3	122.2	142.2	126.4	94.8	71.1	71.1
92.5°	74.8	202.0	329.3	361.1	507.7	703.1	800.8	701.8	503.9	355.5	341.4
95°	179.6	412.4	645.3	703.5	1249.3	1977.0	2340.8	2088.8	1584.9	1206.9	1164.1
97.5°	310.6	516.0	721.4	772.8	1682.8	2896.1	3502.7	3343.5	3025.0	2786.1	2704.6
100°	411.6	597.9	784.2	830.8	1840.6	3186.9	3860.1	3871.7	3895.0	3912.5	3815.4
102.5°	497.7	671.5	845.3	888.8	1912.9	3278.4	3961.2	4164.1	4569.9	4874.3	4791.1
105°	643.7	790.9	938.1	974.9	1966.6	3288.8	3949.9	4404.8	5314.6	5996.9	5952.2
107.5°	793.4	930.6	1067.8	1102.1	1976.5	3142.4	3725.4	4359.9	5628.9	6580.7	6591.5
110°	894.4	1018.3	1142.2	1173.2	1961.6	3012.7	3538.3	4247.7	5666.4	6730.4	6777.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	993.6	1111.7	1229.8	1259.3	1962.2	2899.4	3368.0	4094.0	5546.0	6635.0	6706.5
115°	1143.3	1252.2	1361.2	1388.4	1980.3	2769.5	3164.1	3863.5	5262.2	6311.3	6410.5
117.5°	1291.1	1390.0	1489.0	1513.7	2017.0	2688.1	3023.7	3654.9	4917.3	5864.1	5974.1
120°	1377.1	1470.3	1563.4	1586.7	2047.0	2660.7	2967.6	3544.3	4697.7	5562.8	5669.7
122.5°	1461.3	1555.3	1649.3	1672.8	2090.1	2646.4	2924.6	3443.9	4482.6	5261.6	5367.0
125°	1590.5	1676.1	1761.8	1783.2	2148.1	2634.6	2877.8	3319.0	4201.3	4863.0	4960.1
127.5°	1695.2	1781.7	1868.2	1889.8	2206.0	2627.7	2838.5	3217.3	3974.9	4543.1	4625.0
130°	1751.4	1844.5	1937.6	1960.9	2248.4	2631.8	2823.5	3160.7	3835.2	4341.0	4416.7
132.5°	1809.4	1902.5	1995.6	2018.9	2282.7	2634.5	2810.4	3112.3	3716.1	4168.9	4236.7
135°	1895.4	1980.2	2065.1	2086.3	2320.2	2632.1	2788.0	3040.8	3546.4	3925.6	3984.0
137.5°	1983.4	2067.4	2151.4	2172.4	2376.3	2648.2	2784.2	2997.9	3425.4	3746.0	3793.8
140°	2056.4	2133.7	2211.1	2230.4	2410.6	2650.9	2771.1	2955.7	3325.0	3601.9	3646.6
142.5°	2112.5	2184.0	2255.5	2273.4	2439.3	2660.5	2771.1	2933.3	3257.6	3500.9	3539.4
145°	2198.6	2261.0	2323.3	2338.9	2476.7	2660.5	2752.4	2885.0	3150.3	3349.3	3378.4
147.5°	2284.6	2345.3	2406.0	2421.2	2531.6	2678.8	2752.4	2856.8	3065.5	3222.1	3246.2
150°	2340.8	2395.7	2450.6	2464.3	2560.3	2688.4	2752.4	2840.6	3016.9	3149.1	3168.6
152.5°	2398.8	2440.4	2481.9	2492.3	2579.0	2694.6	2752.4	2827.7	2978.2	3091.1	3105.9
155°	2484.9	2515.7	2546.4	2554.1	2620.2	2708.3	2752.4	2812.3	2932.1	3021.9	3031.7
157.5°	2548.5	2578.4	2608.3	2615.8	2661.3	2722.0	2752.4	2799.0	2892.1	2962.0	2968.9
160°	2591.5	2614.8	2638.1	2643.9	2680.1	2728.3	2752.4	2792.3	2872.1	2932.0	2936.0
162.5°	2634.5	2652.0	2669.4	2673.8	2700.0	2734.9	2752.4	2786.1	2853.5	2904.0	2907.7
165°	2681.3	2697.1	2712.9	2716.9	2728.7	2744.5	2752.4	2776.5	2824.7	2860.9	2864.9
167.5°	2724.4	2731.9	2739.3	2741.2	2751.2	2764.5	2771.1	2786.9	2818.5	2842.2	2843.9
170°	2752.4	2759.9	2767.4	2769.3	2769.9	2770.7	2771.1	2786.9	2818.5	2842.2	2842.2
172.5°	2767.4	2769.0	2770.7	2771.1	2771.1	2771.1	2771.1	2783.6	2808.6	2827.3	2825.8
175°	2788.0	2788.0	2788.0	2788.0	2782.4	2774.9	2771.1	2779.0	2794.8	2806.7	2806.7
177.5°	2788.0	2788.0	2788.0	2788.0	2783.6	2777.8	2774.9	2781.1	2793.6	2802.9	2801.2
180°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4296.7	4284.8	4296.7	4288.7	4292.7	4280.8	4245.1	4233.2	4245.1	4257.0	4257.0
5°	4348.2	4340.3	4348.2	4348.2	4344.2	4336.3	4296.7	4288.7	4296.7	4300.6	4292.7
7.5°	4364.0	4352.2	4364.0	4356.1	4356.1	4348.2	4308.6	4300.6	4304.6	4316.5	4304.6
10°	4364.0	4352.2	4364.0	4360.1	4356.1	4348.2	4308.6	4292.7	4292.7	4304.6	4292.7
12.5°	4344.2	4336.3	4344.2	4336.3	4336.3	4328.4	4288.7	4272.9	4276.8	4280.8	4265.0
15°	4312.5	4300.6	4312.5	4304.6	4308.6	4296.7	4253.1	4237.2	4237.2	4245.1	4217.4
17.5°	4265.0	4249.1	4265.0	4261.0	4257.0	4249.1	4209.5	4193.6	4189.6	4193.6	4173.8
20°	4209.5	4197.6	4209.5	4205.5	4205.5	4189.6	4150.0	4130.2	4130.2	4130.2	4110.4
22.5°	4122.3	4110.4	4122.3	4130.2	4130.2	4126.2	4090.5	4062.8	4054.9	4054.9	4031.1
25°	4023.2	4011.3	4023.2	4023.2	4019.2	4023.2	4011.3	3995.4	3983.5	3971.6	3947.9
27.5°	3928.0	3920.1	3928.0	3920.1	3928.0	3916.1	3912.2	3908.2	3892.4	3880.5	3848.8
30°	3832.9	3825.0	3832.9	3825.0	3817.1	3809.1	3789.3	3781.4	3797.2	3789.3	3737.8
32.5°	3714.0	3706.1	3714.0	3714.0	3706.1	3706.1	3674.4	3662.5	3666.4	3690.2	3642.6
35°	3591.1	3579.2	3591.1	3587.2	3591.1	3579.2	3559.4	3555.4	3539.6	3567.3	3531.7
37.5°	3448.4	3436.5	3448.4	3448.4	3448.4	3456.4	3440.5	3428.6	3404.8	3440.5	3412.8
40°	3301.8	3285.9	3301.8	3297.8	3301.8	3309.7	3301.8	3293.8	3270.1	3297.8	3274.0
42.5°	3135.3	3131.3	3135.3	3139.3	3139.3	3155.1	3167.0	3151.1	3143.2	3123.4	3139.3
45°	2956.9	2949.0	2956.9	2964.9	2968.8	2976.7	3012.4	3012.4	3000.5	2968.8	2992.6
47.5°	2766.7	2746.9	2766.7	2790.5	2790.5	2802.3	2838.0	2865.8	2845.9	2806.3	2818.2
50°	2564.5	2568.5	2564.5	2580.4	2580.4	2624.0	2651.7	2679.5	2699.3	2651.7	2596.2
52.5°	2366.3	2362.4	2366.3	2378.2	2394.1	2413.9	2461.5	2489.2	2520.9	2493.2	2406.0
55°	2168.1	2176.1	2168.1	2172.1	2180.0	2191.9	2263.3	2291.0	2350.5	2314.8	2223.6
57.5°	1970.0	1958.1	1970.0	1977.9	1981.9	1993.7	2053.2	2104.7	2140.4	2144.4	2033.4
60°	1740.1	1724.2	1740.1	1775.7	1783.7	1791.6	1847.1	1894.7	1926.4	1938.3	1823.3
62.5°	1537.9	1510.2	1537.9	1561.7	1577.6	1597.4	1637.0	1708.4	1736.1	1740.1	1577.6
65°	1323.9	1312.0	1323.9	1371.4	1375.4	1399.2	1442.8	1494.3	1553.8	1545.8	1312.0
67.5°	1129.7	1129.7	1129.7	1161.4	1185.1	1197.0	1252.5	1276.3	1351.6	1359.6	1094.0
70°	951.3	947.3	951.3	975.1	990.9	1018.7	1070.2	1097.9	1157.4	1177.2	887.9
72.5°	780.9	776.9	780.9	800.7	816.5	840.3	883.9	915.6	967.1	990.9	689.7
75°	630.2	622.3	630.2	646.1	642.1	673.8	709.5	741.2	788.8	804.6	511.3
77.5°	483.6	483.6	483.6	499.4	499.4	531.1	547.0	586.6	614.4	638.2	376.6
80°	360.7	356.7	360.7	364.7	364.7	380.5	408.3	436.0	459.8	459.8	257.6
82.5°	253.7	245.7	253.7	253.7	253.7	261.6	277.5	285.4	301.2	313.1	162.5
85°	158.5	158.5	158.5	162.5	158.5	166.5	170.4	178.4	178.4	170.4	99.1
87.5°	103.1	99.1	103.1	99.1	99.1	95.1	95.1	95.1	91.2	87.2	55.5
90°	71.1	71.1	71.1	71.1	71.1	94.8	126.4	142.2	122.2	82.3	52.4
92.5°	284.8	228.3	284.8	341.4	355.5	503.9	701.8	800.8	703.1	507.7	361.1
95°	992.7	821.4	992.7	1164.1	1206.9	1584.9	2088.8	2340.8	1977.0	1249.3	703.5
97.5°	2378.6	2052.6	2378.6	2704.6	2786.1	3025.0	3343.5	3502.7	2896.1	1682.8	772.8
100°	3427.1	3038.7	3427.1	3815.4	3912.5	3895.0	3871.7	3860.1	3186.9	1840.6	830.8
102.5°	4458.5	4125.8	4458.5	4791.1	4874.3	4569.9	4164.1	3961.2	3278.4	1912.9	888.8
105°	5773.5	5594.7	5773.5	5952.2	5996.9	5314.6	4404.8	3949.9	3288.8	1966.6	974.9
107.5°	6634.8	6678.0	6634.8	6591.5	6580.7	5628.9	4359.9	3725.4	3142.4	1976.5	1102.1
110°	6963.3	7149.6	6963.3	6777.0	6730.4	5666.4	4247.7	3538.3	3012.7	1961.6	1173.2





TEST NUMBER: P936013

CATALOG NUMBER: SQ4-FA-150U-100D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6992.6	7278.7	6992.6	6706.5	6635.0	5546.0	4094.0	3368.0	2899.4	1962.2	1259.3
115°	6807.1	7203.8	6807.1	6410.5	6311.3	5262.2	3863.5	3164.1	2769.5	1980.3	1388.4
117.5°	6414.0	6853.9	6414.0	5974.1	5864.1	4917.3	3654.9	3023.7	2688.1	2017.0	1513.7
120°	6097.1	6524.6	6097.1	5669.7	5562.8	4697.7	3544.3	2967.6	2660.7	2047.0	1586.7
122.5°	5788.7	6210.3	5788.7	5367.0	5261.6	4482.6	3443.9	2924.6	2646.4	2090.1	1672.8
125°	5348.5	5736.9	5348.5	4960.1	4863.0	4201.3	3319.0	2877.8	2634.6	2148.1	1783.2
127.5°	4952.7	5280.3	4952.7	4625.0	4543.1	3974.9	3217.3	2838.5	2627.7	2206.0	1889.8
130°	4719.4	5022.1	4719.4	4416.7	4341.0	3835.2	3160.7	2823.5	2631.8	2248.4	1960.9
132.5°	4507.7	4778.8	4507.7	4236.7	4168.9	3716.1	3112.3	2810.4	2634.5	2282.7	2018.9
135°	4217.7	4451.4	4217.7	3984.0	3925.6	3546.4	3040.8	2788.0	2632.1	2320.2	2086.3
137.5°	3985.1	4176.3	3985.1	3793.8	3746.0	3425.4	2997.9	2784.2	2648.2	2376.3	2172.4
140°	3825.4	4004.2	3825.4	3646.6	3601.9	3325.0	2955.7	2771.1	2650.9	2410.6	2230.4
142.5°	3693.2	3847.0	3693.2	3539.4	3500.9	3257.6	2933.3	2771.1	2660.5	2439.3	2273.4
145°	3494.9	3611.3	3494.9	3378.4	3349.3	3150.3	2885.0	2752.4	2660.5	2476.7	2338.9
147.5°	3342.7	3439.1	3342.7	3246.2	3222.1	3065.5	2856.8	2752.4	2678.8	2531.6	2421.2
150°	3246.8	3325.0	3246.8	3168.6	3149.1	3016.9	2840.6	2752.4	2688.4	2560.3	2464.3
152.5°	3164.9	3223.9	3164.9	3105.9	3091.1	2978.2	2827.7	2752.4	2694.6	2579.0	2492.3
155°	3070.7	3109.8	3070.7	3031.7	3021.9	2932.1	2812.3	2752.4	2708.3	2620.2	2554.1
157.5°	2996.3	3023.7	2996.3	2968.9	2962.0	2892.1	2799.0	2752.4	2722.0	2661.3	2615.8
160°	2951.8	2967.6	2951.8	2936.0	2932.0	2872.1	2792.3	2752.4	2728.3	2680.1	2643.9
162.5°	2922.7	2937.7	2922.7	2907.7	2904.0	2853.5	2786.1	2752.4	2734.9	2700.0	2673.8
165°	2880.7	2896.5	2880.7	2864.9	2860.9	2824.7	2776.5	2752.4	2744.5	2728.7	2716.9
167.5°	2850.5	2857.2	2850.5	2843.9	2842.2	2818.5	2786.9	2771.1	2764.5	2751.2	2741.2
170°	2842.2	2842.2	2842.2	2842.2	2842.2	2818.5	2786.9	2771.1	2770.7	2769.9	2769.3
172.5°	2820.0	2814.2	2820.0	2825.8	2827.3	2808.6	2783.6	2771.1	2771.1	2771.1	2771.1
175°	2806.7	2806.7	2806.7	2806.7	2806.7	2794.8	2779.0	2771.1	2774.9	2782.4	2788.0
177.5°	2794.6	2788.0	2794.6	2801.2	2802.9	2793.6	2781.1	2774.9	2777.8	2783.6	2788.0
180°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0



TEST NUMBER: P936013

CATALOG NUMBER: SQ4-FA-150U-100D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4249.1	4225.3	4225.3	4185.7	4169.8	4157.9	4138.1	4078.7	4062.8	4046.9	4070.7
5°	4284.8	4241.2	4209.5	4138.1	4078.7	4054.9	3979.6	3836.9	3741.7	3670.4	3630.8
7.5°	4292.7	4237.2	4177.7	4066.8	3924.1	3860.7	3630.8	3369.2	3297.8	3234.4	3194.7
10°	4284.8	4221.4	4138.1	3971.6	3634.7	3523.7	3293.8	3123.4	3079.8	3067.9	3079.8
12.5°	4257.0	4197.6	4082.6	3805.2	3333.5	3258.2	3123.4	3024.3	3016.4	3036.2	3143.2
15°	4209.5	4154.0	4019.2	3583.2	3167.0	3111.5	3016.4	2980.7	3024.3	3163.0	3484.1
17.5°	4161.9	4098.5	3932.0	3365.2	3040.2	3000.5	2933.1	3004.5	3250.2	3436.5	3543.6
20°	4098.5	4023.2	3832.9	3206.6	2949.0	2913.3	2881.6	3202.7	3389.0	3456.4	3515.8
22.5°	4023.2	3943.9	3698.1	3095.7	2853.9	2826.1	2845.9	3313.7	3389.0	3436.5	3488.1
25°	3924.1	3856.7	3539.6	3008.5	2778.6	2746.9	2822.2	3301.8	3345.4	3357.3	3460.3
27.5°	3832.9	3745.7	3373.1	2929.2	2687.4	2675.5	2842.0	3250.2	3282.0	3293.8	3404.8
30°	3721.9	3591.1	3186.8	2845.9	2592.3	2588.3	2845.9	3186.8	3178.9	3210.6	3321.6
32.5°	3607.0	3361.2	2976.7	2742.9	2501.1	2497.1	2818.2	3091.7	3083.8	3127.4	3210.6
35°	3500.0	3182.9	2691.4	2624.0	2386.2	2390.1	2750.8	2980.7	2984.7	3024.3	3075.8
37.5°	3389.0	3028.3	2378.2	2493.2	2275.2	2275.2	2659.6	2877.7	2869.7	2881.6	2953.0
40°	3258.2	2786.5	2100.8	2322.7	2172.1	2160.2	2548.7	2766.7	2738.9	2735.0	2834.1
42.5°	3119.4	2520.9	1894.7	2096.8	2053.2	2037.3	2413.9	2631.9	2580.4	2592.3	2719.1
45°	2968.8	2449.6	1736.1	1771.8	1930.3	1918.4	2267.2	2477.3	2441.6	2473.4	2604.2
47.5°	2818.2	2306.9	1684.6	1470.5	1799.5	1795.6	2104.7	2326.7	2306.9	2338.6	2477.3
50°	2612.1	2148.3	1680.6	1260.5	1652.9	1668.7	1910.5	2180.0	2180.0	2207.8	2354.4
52.5°	2346.5	1954.1	1526.0	1141.5	1482.4	1530.0	1740.1	2053.2	2061.1	2088.9	2219.7
55°	2104.7	1752.0	1415.0	1050.4	1280.3	1383.3	1573.6	1922.4	1938.3	1966.0	2084.9
57.5°	1882.8	1458.6	1391.3	943.4	1094.0	1193.1	1426.9	1795.6	1803.5	1827.3	1942.2
60°	1644.9	1054.3	1276.3	828.4	931.5	1006.8	1292.2	1644.9	1672.7	1688.5	1787.6
62.5°	1375.4	765.0	1157.4	749.1	852.2	868.1	1181.2	1502.2	1537.9	1549.8	1609.3
65°	979.0	642.1	983.0	681.8	769.0	772.9	1062.3	1355.6	1387.3	1407.1	1450.7
67.5°	661.9	523.2	749.1	618.3	705.5	709.5	947.3	1185.1	1228.7	1244.6	1272.4
70°	459.8	348.8	554.9	551.0	634.2	642.1	824.5	1030.6	1070.2	1082.1	1097.9
72.5°	336.9	281.4	459.8	495.5	558.9	566.8	697.6	856.2	895.8	907.7	915.6
75°	257.6	297.3	372.6	432.0	475.6	479.6	570.8	697.6	725.4	733.3	737.2
77.5°	206.1	277.5	273.5	348.8	388.4	380.5	447.9	539.1	562.8	562.8	562.8
80°	154.6	218.0	206.1	249.7	285.4	277.5	321.1	384.5	392.4	400.3	396.4
82.5°	114.9	138.7	138.7	158.5	190.3	182.3	214.0	249.7	249.7	249.7	257.6
85°	71.3	79.3	63.4	83.2	107.0	103.1	118.9	134.8	138.7	138.7	130.8
87.5°	43.6	35.7	19.8	31.7	47.6	47.6	55.5	59.5	55.5	55.5	55.5
90°	48.7	33.7	18.7	33.7	48.7	52.4	82.3	122.2	142.2	126.4	94.8
92.5°	329.3	202.0	74.8	202.0	329.3	361.1	507.7	703.1	800.8	701.8	503.9
95°	645.3	412.4	179.6	412.4	645.3	703.5	1249.3	1977.0	2340.8	2088.8	1584.9
97.5°	721.4	516.0	310.6	516.0	721.4	772.8	1682.8	2896.1	3502.7	3343.5	3025.0
100°	784.2	597.9	411.6	597.9	784.2	830.8	1840.6	3186.9	3860.1	3871.7	3895.0
102.5°	845.3	671.5	497.7	671.5	845.3	888.8	1912.9	3278.4	3961.2	4164.1	4569.9
105°	938.1	790.9	643.7	790.9	938.1	974.9	1966.6	3288.8	3949.9	4404.8	5314.6
107.5°	1067.8	930.6	793.4	930.6	1067.8	1102.1	1976.5	3142.4	3725.4	4359.9	5628.9
110°	1142.2	1018.3	894.4	1018.3	1142.2	1173.2	1961.6	3012.7	3538.3	4247.7	5666.4



TEST NUMBER: P936013

CATALOG NUMBER: SQ4-FA-150U-100D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1229.8	1111.7	993.6	1111.7	1229.8	1259.3	1962.2	2899.4	3368.0	4094.0	5546.0
115°	1361.2	1252.2	1143.3	1252.2	1361.2	1388.4	1980.3	2769.5	3164.1	3863.5	5262.2
117.5°	1489.0	1390.0	1291.1	1390.0	1489.0	1513.7	2017.0	2688.1	3023.7	3654.9	4917.3
120°	1563.4	1470.3	1377.1	1470.3	1563.4	1586.7	2047.0	2660.7	2967.6	3544.3	4697.7
122.5°	1649.3	1555.3	1461.3	1555.3	1649.3	1672.8	2090.1	2646.4	2924.6	3443.9	4482.6
125°	1761.8	1676.1	1590.5	1676.1	1761.8	1783.2	2148.1	2634.6	2877.8	3319.0	4201.3
127.5°	1868.2	1781.7	1695.2	1781.7	1868.2	1889.8	2206.0	2627.7	2838.5	3217.3	3974.9
130°	1937.6	1844.5	1751.4	1844.5	1937.6	1960.9	2248.4	2631.8	2823.5	3160.7	3835.2
132.5°	1995.6	1902.5	1809.4	1902.5	1995.6	2018.9	2282.7	2634.5	2810.4	3112.3	3716.1
135°	2065.1	1980.2	1895.4	1980.2	2065.1	2086.3	2320.2	2632.1	2788.0	3040.8	3546.4
137.5°	2151.4	2067.4	1983.4	2067.4	2151.4	2172.4	2376.3	2648.2	2784.2	2997.9	3425.4
140°	2211.1	2133.7	2056.4	2133.7	2211.1	2230.4	2410.6	2650.9	2771.1	2955.7	3325.0
142.5°	2255.5	2184.0	2112.5	2184.0	2255.5	2273.4	2439.3	2660.5	2771.1	2933.3	3257.6
145°	2323.3	2261.0	2198.6	2261.0	2323.3	2338.9	2476.7	2660.5	2752.4	2885.0	3150.3
147.5°	2406.0	2345.3	2284.6	2345.3	2406.0	2421.2	2531.6	2678.8	2752.4	2856.8	3065.5
150°	2450.6	2395.7	2340.8	2395.7	2450.6	2464.3	2560.3	2688.4	2752.4	2840.6	3016.9
152.5°	2481.9	2440.4	2398.8	2440.4	2481.9	2492.3	2579.0	2694.6	2752.4	2827.7	2978.2
155°	2546.4	2515.7	2484.9	2515.7	2546.4	2554.1	2620.2	2708.3	2752.4	2812.3	2932.1
157.5°	2608.3	2578.4	2548.5	2578.4	2608.3	2615.8	2661.3	2722.0	2752.4	2799.0	2892.1
160°	2638.1	2614.8	2591.5	2614.8	2638.1	2643.9	2680.1	2728.3	2752.4	2792.3	2872.1
162.5°	2669.4	2652.0	2634.5	2652.0	2669.4	2673.8	2700.0	2734.9	2752.4	2786.1	2853.5
165°	2712.9	2697.1	2681.3	2697.1	2712.9	2716.9	2728.7	2744.5	2752.4	2776.5	2824.7
167.5°	2739.3	2731.9	2724.4	2731.9	2739.3	2741.2	2751.2	2764.5	2771.1	2786.9	2818.5
170°	2767.4	2759.9	2752.4	2759.9	2767.4	2769.3	2769.9	2770.7	2771.1	2786.9	2818.5
172.5°	2770.7	2769.0	2767.4	2769.0	2770.7	2771.1	2771.1	2771.1	2771.1	2783.6	2808.6
175°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2782.4	2774.9	2771.1	2779.0	2794.8
177.5°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2783.6	2777.8	2774.9	2781.1	2793.6
180°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0



TEST NUMBER: P936013

CATALOG NUMBER: SQ4-FA-150U-100D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4043.0	4031.1	4046.9	4003.3	4046.9	4031.1	4043.0	4070.7	4046.9	4062.8	4078.7
5°	3547.5	3527.7	3464.3	3412.8	3464.3	3527.7	3547.5	3630.8	3670.4	3741.7	3836.9
7.5°	3171.0	3155.1	3139.3	3107.5	3139.3	3155.1	3171.0	3194.7	3234.4	3297.8	3369.2
10°	3087.7	3091.7	3115.5	3111.5	3115.5	3091.7	3087.7	3079.8	3067.9	3079.8	3123.4
12.5°	3301.8	3337.4	3468.2	3460.3	3468.2	3337.4	3301.8	3143.2	3036.2	3016.4	3024.3
15°	3547.5	3559.4	3587.2	3591.1	3587.2	3559.4	3547.5	3484.1	3163.0	3024.3	2980.7
17.5°	3571.3	3575.3	3595.1	3595.1	3595.1	3575.3	3571.3	3543.6	3436.5	3250.2	3004.5
20°	3551.5	3559.4	3599.0	3607.0	3599.0	3559.4	3551.5	3515.8	3456.4	3389.0	3202.7
22.5°	3543.6	3559.4	3591.1	3587.2	3591.1	3559.4	3543.6	3488.1	3436.5	3389.0	3313.7
25°	3503.9	3503.9	3507.9	3511.8	3507.9	3503.9	3503.9	3460.3	3357.3	3345.4	3301.8
27.5°	3420.7	3428.6	3452.4	3448.4	3452.4	3428.6	3420.7	3404.8	3293.8	3282.0	3250.2
30°	3345.4	3337.4	3317.6	3301.8	3317.6	3337.4	3345.4	3321.6	3210.6	3178.9	3186.8
32.5°	3218.5	3198.7	3178.9	3167.0	3178.9	3198.7	3218.5	3210.6	3127.4	3083.8	3091.7
35°	3067.9	3071.9	3067.9	3056.0	3067.9	3071.9	3067.9	3075.8	3024.3	2984.7	2980.7
37.5°	2960.9	2968.8	2964.9	2949.0	2964.9	2968.8	2960.9	2953.0	2881.6	2869.7	2877.7
40°	2849.9	2853.9	2849.9	2838.0	2849.9	2853.9	2849.9	2834.1	2735.0	2738.9	2766.7
42.5°	2742.9	2738.9	2727.0	2719.1	2727.0	2738.9	2742.9	2719.1	2592.3	2580.4	2631.9
45°	2620.0	2624.0	2600.2	2588.3	2600.2	2624.0	2620.0	2604.2	2473.4	2441.6	2477.3
47.5°	2497.1	2497.1	2477.3	2465.4	2477.3	2497.1	2497.1	2477.3	2338.6	2306.9	2326.7
50°	2366.3	2362.4	2334.6	2330.7	2334.6	2362.4	2366.3	2354.4	2207.8	2180.0	2180.0
52.5°	2215.7	2215.7	2219.7	2227.6	2219.7	2215.7	2215.7	2219.7	2088.9	2061.1	2053.2
55°	2084.9	2088.9	2116.6	2124.5	2116.6	2088.9	2084.9	2084.9	1966.0	1938.3	1922.4
57.5°	1950.1	1950.1	1970.0	1970.0	1970.0	1950.1	1950.1	1942.2	1827.3	1803.5	1795.6
60°	1795.6	1803.5	1819.3	1815.4	1819.3	1803.5	1795.6	1787.6	1688.5	1672.7	1644.9
62.5°	1633.0	1641.0	1644.9	1637.0	1644.9	1641.0	1633.0	1609.3	1549.8	1537.9	1502.2
65°	1462.6	1470.5	1474.5	1466.6	1474.5	1470.5	1462.6	1450.7	1407.1	1387.3	1355.6
67.5°	1288.2	1284.2	1280.3	1296.1	1280.3	1284.2	1288.2	1272.4	1244.6	1228.7	1185.1
70°	1109.8	1109.8	1105.9	1113.8	1105.9	1109.8	1109.8	1097.9	1082.1	1070.2	1030.6
72.5°	919.6	915.6	931.5	919.6	931.5	915.6	919.6	915.6	907.7	895.8	856.2
75°	733.3	741.2	733.3	745.2	733.3	741.2	733.3	737.2	733.3	725.4	697.6
77.5°	558.9	566.8	558.9	558.9	558.9	566.8	558.9	562.8	562.8	562.8	539.1
80°	396.4	392.4	392.4	388.4	392.4	392.4	396.4	396.4	400.3	392.4	384.5
82.5°	253.7	249.7	249.7	257.6	249.7	249.7	253.7	257.6	249.7	249.7	249.7
85°	138.7	142.7	134.8	134.8	134.8	142.7	138.7	130.8	138.7	138.7	134.8
87.5°	51.5	47.6	47.6	47.6	47.6	47.6	51.5	55.5	55.5	55.5	59.5
90°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	94.8	126.4	142.2	122.2
92.5°	355.5	341.4	284.8	228.3	284.8	341.4	355.5	503.9	701.8	800.8	703.1
95°	1206.9	1164.1	992.7	821.4	992.7	1164.1	1206.9	1584.9	2088.8	2340.8	1977.0
97.5°	2786.1	2704.6	2378.6	2052.6	2378.6	2704.6	2786.1	3025.0	3343.5	3502.7	2896.1
100°	3912.5	3815.4	3427.1	3038.7	3427.1	3815.4	3912.5	3895.0	3871.7	3860.1	3186.9
102.5°	4874.3	4791.1	4458.5	4125.8	4458.5	4791.1	4874.3	4569.9	4164.1	3961.2	3278.4
105°	5996.9	5952.2	5773.5	5594.7	5773.5	5952.2	5996.9	5314.6	4404.8	3949.9	3288.8
107.5°	6580.7	6591.5	6634.8	6678.0	6634.8	6591.5	6580.7	5628.9	4359.9	3725.4	3142.4
110°	6730.4	6777.0	6963.3	7149.6	6963.3	6777.0	6730.4	5666.4	4247.7	3538.3	3012.7



TEST NUMBER: P936013

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6635.0	6706.5	6992.6	7278.7	6992.6	6706.5	6635.0	5546.0	4094.0	3368.0	2899.4
115°	6311.3	6410.5	6807.1	7203.8	6807.1	6410.5	6311.3	5262.2	3863.5	3164.1	2769.5
117.5°	5864.1	5974.1	6414.0	6853.9	6414.0	5974.1	5864.1	4917.3	3654.9	3023.7	2688.1
120°	5562.8	5669.7	6097.1	6524.6	6097.1	5669.7	5562.8	4697.7	3544.3	2967.6	2660.7
122.5°	5261.6	5367.0	5788.7	6210.3	5788.7	5367.0	5261.6	4482.6	3443.9	2924.6	2646.4
125°	4863.0	4960.1	5348.5	5736.9	5348.5	4960.1	4863.0	4201.3	3319.0	2877.8	2634.6
127.5°	4543.1	4625.0	4952.7	5280.3	4952.7	4625.0	4543.1	3974.9	3217.3	2838.5	2627.7
130°	4341.0	4416.7	4719.4	5022.1	4719.4	4416.7	4341.0	3835.2	3160.7	2823.5	2631.8
132.5°	4168.9	4236.7	4507.7	4778.8	4507.7	4236.7	4168.9	3716.1	3112.3	2810.4	2634.5
135°	3925.6	3984.0	4217.7	4451.4	4217.7	3984.0	3925.6	3546.4	3040.8	2788.0	2632.1
137.5°	3746.0	3793.8	3985.1	4176.3	3985.1	3793.8	3746.0	3425.4	2997.9	2784.2	2648.2
140°	3601.9	3646.6	3825.4	4004.2	3825.4	3646.6	3601.9	3325.0	2955.7	2771.1	2650.9
142.5°	3500.9	3539.4	3693.2	3847.0	3693.2	3539.4	3500.9	3257.6	2933.3	2771.1	2660.5
145°	3349.3	3378.4	3494.9	3611.3	3494.9	3378.4	3349.3	3150.3	2885.0	2752.4	2660.5
147.5°	3222.1	3246.2	3342.7	3439.1	3342.7	3246.2	3222.1	3065.5	2856.8	2752.4	2678.8
150°	3149.1	3168.6	3246.8	3325.0	3246.8	3168.6	3149.1	3016.9	2840.6	2752.4	2688.4
152.5°	3091.1	3105.9	3164.9	3223.9	3164.9	3105.9	3091.1	2978.2	2827.7	2752.4	2694.6
155°	3021.9	3031.7	3070.7	3109.8	3070.7	3031.7	3021.9	2932.1	2812.3	2752.4	2708.3
157.5°	2962.0	2968.9	2996.3	3023.7	2996.3	2968.9	2962.0	2892.1	2799.0	2752.4	2722.0
160°	2932.0	2936.0	2951.8	2967.6	2951.8	2936.0	2932.0	2872.1	2792.3	2752.4	2728.3
162.5°	2904.0	2907.7	2922.7	2937.7	2922.7	2907.7	2904.0	2853.5	2786.1	2752.4	2734.9
165°	2860.9	2864.9	2880.7	2896.5	2880.7	2864.9	2860.9	2824.7	2776.5	2752.4	2744.5
167.5°	2842.2	2843.9	2850.5	2857.2	2850.5	2843.9	2842.2	2818.5	2786.9	2771.1	2764.5
170°	2842.2	2842.2	2842.2	2842.2	2842.2	2842.2	2842.2	2818.5	2786.9	2771.1	2770.7
172.5°	2827.3	2825.8	2820.0	2814.2	2820.0	2825.8	2827.3	2808.6	2783.6	2771.1	2771.1
175°	2806.7	2806.7	2806.7	2806.7	2806.7	2806.7	2806.7	2794.8	2779.0	2771.1	2774.9
177.5°	2802.9	2801.2	2794.6	2788.0	2794.6	2801.2	2802.9	2793.6	2781.1	2774.9	2777.8
180°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0



TEST NUMBER: P936013

CATALOG NUMBER: SQ4-FA-150U-100D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	4189.6	4189.6	4189.6	4189.6	4189.6
2.5°	4138.1	4157.9	4169.8	4185.7	4225.3
5°	3979.6	4054.9	4078.7	4138.1	4209.5
7.5°	3630.8	3860.7	3924.1	4066.8	4177.7
10°	3293.8	3523.7	3634.7	3971.6	4138.1
12.5°	3123.4	3258.2	3333.5	3805.2	4082.6
15°	3016.4	3111.5	3167.0	3583.2	4019.2
17.5°	2933.1	3000.5	3040.2	3365.2	3932.0
20°	2881.6	2913.3	2949.0	3206.6	3832.9
22.5°	2845.9	2826.1	2853.9	3095.7	3698.1
25°	2822.2	2746.9	2778.6	3008.5	3539.6
27.5°	2842.0	2675.5	2687.4	2929.2	3373.1
30°	2845.9	2588.3	2592.3	2845.9	3186.8
32.5°	2818.2	2497.1	2501.1	2742.9	2976.7
35°	2750.8	2390.1	2386.2	2624.0	2691.4
37.5°	2659.6	2275.2	2275.2	2493.2	2378.2
40°	2548.7	2160.2	2172.1	2322.7	2100.8
42.5°	2413.9	2037.3	2053.2	2096.8	1894.7
45°	2267.2	1918.4	1930.3	1771.8	1736.1
47.5°	2104.7	1795.6	1799.5	1470.5	1684.6
50°	1910.5	1668.7	1652.9	1260.5	1680.6
52.5°	1740.1	1530.0	1482.4	1141.5	1526.0
55°	1573.6	1383.3	1280.3	1050.4	1415.0
57.5°	1426.9	1193.1	1094.0	943.4	1391.3
60°	1292.2	1006.8	931.5	828.4	1276.3
62.5°	1181.2	868.1	852.2	749.1	1157.4
65°	1062.3	772.9	769.0	681.8	983.0
67.5°	947.3	709.5	705.5	618.3	749.1
70°	824.5	642.1	634.2	551.0	554.9
72.5°	697.6	566.8	558.9	495.5	459.8
75°	570.8	479.6	475.6	432.0	372.6
77.5°	447.9	380.5	388.4	348.8	273.5
80°	321.1	277.5	285.4	249.7	206.1
82.5°	214.0	182.3	190.3	158.5	138.7
85°	118.9	103.1	107.0	83.2	63.4
87.5°	55.5	47.6	47.6	31.7	19.8
90°	82.3	52.4	48.7	33.7	18.7
92.5°	507.7	361.1	329.3	202.0	74.8
95°	1249.3	703.5	645.3	412.4	179.6
97.5°	1682.8	772.8	721.4	516.0	310.6
100°	1840.6	830.8	784.2	597.9	411.6
102.5°	1912.9	888.8	845.3	671.5	497.7
105°	1966.6	974.9	938.1	790.9	643.7
107.5°	1976.5	1102.1	1067.8	930.6	793.4
110°	1961.6	1173.2	1142.2	1018.3	894.4



TEST NUMBER: P936013  
 CATALOG NUMBER: SQ4-FA-150U-100D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1962.2	1259.3	1229.8	1111.7	993.6
115°	1980.3	1388.4	1361.2	1252.2	1143.3
117.5°	2017.0	1513.7	1489.0	1390.0	1291.1
120°	2047.0	1586.7	1563.4	1470.3	1377.1
122.5°	2090.1	1672.8	1649.3	1555.3	1461.3
125°	2148.1	1783.2	1761.8	1676.1	1590.5
127.5°	2206.0	1889.8	1868.2	1781.7	1695.2
130°	2248.4	1960.9	1937.6	1844.5	1751.4
132.5°	2282.7	2018.9	1995.6	1902.5	1809.4
135°	2320.2	2086.3	2065.1	1980.2	1895.4
137.5°	2376.3	2172.4	2151.4	2067.4	1983.4
140°	2410.6	2230.4	2211.1	2133.7	2056.4
142.5°	2439.3	2273.4	2255.5	2184.0	2112.5
145°	2476.7	2338.9	2323.3	2261.0	2198.6
147.5°	2531.6	2421.2	2406.0	2345.3	2284.6
150°	2560.3	2464.3	2450.6	2395.7	2340.8
152.5°	2579.0	2492.3	2481.9	2440.4	2398.8
155°	2620.2	2554.1	2546.4	2515.7	2484.9
157.5°	2661.3	2615.8	2608.3	2578.4	2548.5
160°	2680.1	2643.9	2638.1	2614.8	2591.5
162.5°	2700.0	2673.8	2669.4	2652.0	2634.5
165°	2728.7	2716.9	2712.9	2697.1	2681.3
167.5°	2751.2	2741.2	2739.3	2731.9	2724.4
170°	2769.9	2769.3	2767.4	2759.9	2752.4
172.5°	2771.1	2771.1	2770.7	2769.0	2767.4
175°	2782.4	2788.0	2788.0	2788.0	2788.0
177.5°	2783.6	2788.0	2788.0	2788.0	2788.0
180°	2788.0	2788.0	2788.0	2788.0	2788.0



TEST NUMBER: P936013  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.44	13.20	13.50	14.26	15.70	15.29	16.05	16.35	17.11	18.55
	3H	12.91	13.59	13.98	14.66	16.12	16.64	17.32	17.70	18.39	19.84
	4H	13.10	13.74	14.17	14.81	16.27	17.08	17.72	18.16	18.80	20.26
	6H	13.21	13.80	14.30	14.88	16.35	17.36	17.96	18.45	19.03	20.51
	8H	13.21	13.77	14.30	14.86	16.33	17.44	18.00	18.53	19.09	20.56
	12H	13.17	13.71	14.27	14.80	16.29	17.48	18.01	18.57	19.10	20.59
4H	2H	13.46	14.11	14.55	15.18	16.64	15.69	16.33	16.77	17.40	18.87
	3H	14.48	15.02	15.57	16.12	17.59	17.19	17.73	18.28	18.83	20.30
	4H	14.75	15.25	15.85	16.34	17.83	17.72	18.21	18.81	19.30	20.80
	6H	14.87	15.30	15.98	16.41	17.90	18.08	18.51	19.19	19.62	21.11
	8H	14.88	15.27	15.98	16.38	17.88	18.19	18.59	19.30	19.69	21.20
	12H	14.84	15.20	15.96	16.31	17.82	18.25	18.60	19.37	19.72	21.23
8H	4H	15.20	15.60	16.31	16.70	18.21	17.83	18.23	18.94	19.33	20.84
	6H	15.46	15.79	16.59	16.93	18.44	18.27	18.60	19.40	19.74	21.25
	8H	15.50	15.79	16.64	16.91	18.44	18.43	18.71	19.56	19.84	21.36
	12H	15.48	15.73	16.62	16.86	18.42	18.52	18.77	19.66	19.90	21.46
12H	4H	15.21	15.56	16.33	16.68	18.19	17.79	18.15	18.92	19.27	20.78
	6H	15.52	15.81	16.65	16.93	18.46	18.27	18.55	19.40	19.68	21.20
	8H	15.58	15.83	16.72	16.96	18.52	18.43	18.68	19.56	19.80	21.36