

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: P936073

Luminaire Tested: SQ4-FA-150U-100D-940-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

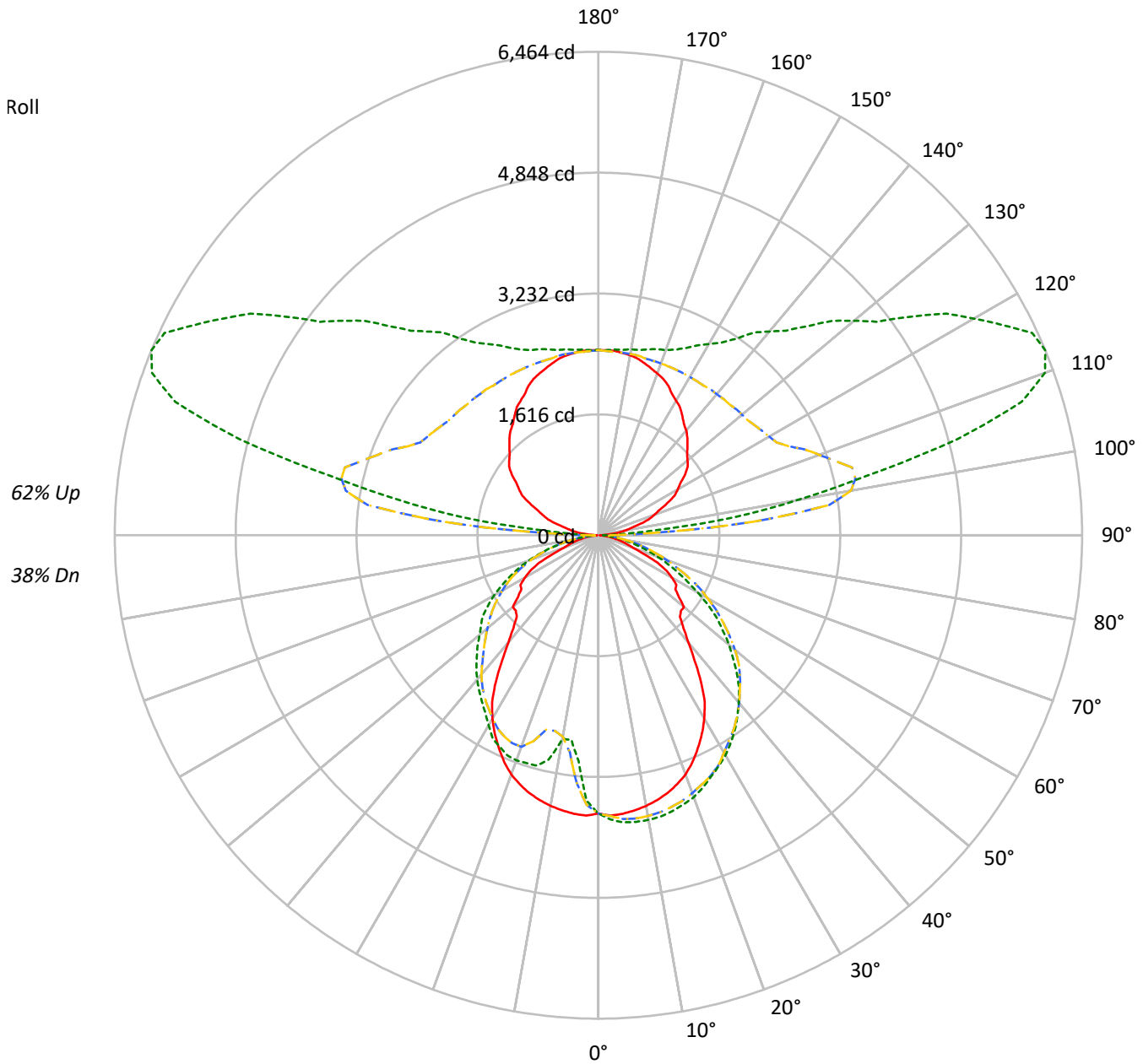
Test Method: LM-79-2019  
Report Number: P936073  
REPORT IS A COMBINATION OF REPORTS P933777 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25704.9 lumens  
Efficiency: N/A  
Efficacy: 118.3 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°	11507	11507	11507	11507
5°	11598	11616	11598	9134
10°	11524	11443	11524	8181
15°	11403	11195	11403	9348
20°	11169	10901	11169	9367
25°	10686	10473	10686	9169
30°	10059	10117	10059	8733
35°	8972	9667	8972	8254
40°	7480	9138	7480	7892
45°	6688	8518	6688	7476
50°	7111	7779	7111	7059
55°	6696	6982	6696	6817
60°	6912	5930	6912	6244
65°	6276	4902	6276	5479
70°	4357	3906	4357	4593
75°	3835	2888	3835	3458
80°	3113	1909	3113	2079
85°	1824	1011	1824	860

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10244 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.8	1.3
10°-20°	953.5	3.7
20°-30°	1474.0	5.7
30°-40°	1759.6	6.8
40°-50°	1769.9	6.9
50°-60°	1540.0	6.0
60°-70°	1091.9	4.2
70°-80°	577.7	2.2
80°-90°	153.3	0.6
90°-100°	1206.8	4.7
100°-110°	3172.7	12.3
110°-120°	3289.8	12.8
120°-130°	2638.8	10.3
130°-140°	2070.5	8.1
140°-150°	1589.2	6.2
150°-160°	1144.5	4.5
160°-170°	700.3	2.7
170°-180°	236.6	0.9
0°-30°	2763.3	10.8
0°-40°	4522.9	17.6
0°-60°	7832.9	30.5
0°-90°	9655.8	37.6
90°-120°	7669.3	29.8
90°-150°	13967.8	54.3
90°-180°	16049.0	62.4
0°-180°	25704.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3720	3720	3720	3720	3720	
5°	3738	3854	3738	3031	3738	355
15°	3569	3819	3569	3189	3569	1004
25°	3143	3562	3143	3118	3143	1443
35°	2390	3178	2390	2714	2390	1479
45°	1542	2619	1542	2298	1542	1235
55°	1256	1932	1256	1887	1256	1155
65°	873	1165	873	1302	873	834
75°	331	553	331	662	331	348
85°	56	141	56	120	56	76
90°	17	63	17	63	17	16
95°	160	729	160	729	160	177
105°	572	4968	572	4968	572	606
115°	1015	6397	1015	6397	1015	1003
125°	1412	5094	1412	5094	1412	1254
135°	1683	3953	1683	3953	1683	1302
145°	1952	3207	1952	3207	1952	1223
155°	2207	2762	2207	2762	2207	1014
165°	2381	2572	2381	2572	2381	672
175°	2476	2492	2476	2492	2476	235
180°	2476	2476	2476	2476	2476	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3752.1	3752.1	3773.2	3780.2	3780.2	3769.6	3759.1	3769.6	3801.4	3811.9	3808.4
5°	3738.0	3766.2	3804.9	3811.9	3818.9	3815.5	3808.4	3815.5	3850.6	3857.6	3861.2
7.5°	3709.8	3762.6	3811.9	3822.5	3833.1	3822.5	3818.9	3826.0	3861.2	3868.2	3868.2
10°	3674.6	3748.6	3804.9	3811.9	3822.5	3811.9	3811.9	3826.0	3861.2	3868.2	3871.8
12.5°	3625.3	3727.5	3780.2	3787.3	3801.4	3797.8	3794.3	3808.4	3843.6	3850.6	3850.6
15°	3569.0	3688.8	3738.0	3745.1	3769.6	3762.6	3762.6	3776.8	3815.5	3826.0	3822.5
17.5°	3491.6	3639.5	3695.8	3706.3	3723.9	3720.4	3723.9	3738.0	3773.2	3780.2	3783.8
20°	3403.6	3572.6	3639.5	3650.0	3667.6	3667.6	3667.6	3685.2	3720.4	3734.5	3734.5
22.5°	3283.9	3502.2	3572.6	3579.6	3600.8	3600.8	3607.8	3632.4	3664.1	3667.6	3667.6
25°	3143.2	3424.7	3484.6	3505.7	3526.8	3537.3	3547.9	3562.0	3572.6	3569.0	3572.6
27.5°	2995.3	3326.2	3403.6	3417.7	3445.9	3456.5	3470.5	3474.0	3477.5	3488.1	3481.0
30°	2829.9	3188.9	3305.0	3319.2	3364.9	3371.9	3357.9	3364.9	3382.5	3389.6	3396.6
32.5°	2643.3	2984.7	3203.0	3234.6	3276.9	3255.8	3252.3	3262.9	3291.0	3291.0	3298.0
35°	2390.0	2826.4	3108.0	3136.1	3167.8	3143.2	3157.2	3160.7	3178.3	3188.9	3185.4
37.5°	2111.8	2689.1	3009.4	3030.6	3055.2	3023.5	3044.6	3055.2	3069.3	3062.2	3062.2
40°	1865.5	2474.4	2893.3	2907.3	2928.4	2903.8	2924.9	2932.0	2939.0	2932.0	2928.4
42.5°	1682.5	2238.6	2770.0	2787.7	2773.6	2791.2	2798.2	2812.3	2801.7	2787.7	2787.7
45°	1541.7	2175.2	2636.3	2657.4	2636.3	2664.4	2675.0	2675.0	2643.3	2636.3	2632.8
47.5°	1495.9	2048.5	2502.6	2502.6	2492.0	2527.2	2544.8	2520.1	2488.4	2478.0	2478.0
50°	1492.4	1907.7	2319.5	2305.4	2354.7	2397.0	2379.4	2354.7	2330.1	2291.4	2291.4
52.5°	1355.1	1735.2	2083.7	2136.5	2214.0	2238.6	2210.4	2185.8	2143.5	2126.0	2111.8
55°	1256.5	1555.8	1869.0	1974.6	2055.5	2087.2	2034.4	2009.8	1946.4	1935.8	1928.8
57.5°	1235.5	1295.2	1671.9	1805.7	1904.2	1900.7	1869.0	1823.2	1770.4	1759.9	1756.4
60°	1133.4	936.2	1460.7	1619.1	1721.2	1710.6	1682.5	1640.2	1590.9	1583.9	1576.8
62.5°	1027.8	679.3	1221.4	1400.9	1545.2	1541.7	1517.1	1453.7	1418.5	1400.9	1386.8
65°	872.9	570.2	869.4	1165.1	1372.7	1379.8	1326.9	1281.2	1242.5	1221.4	1217.8
67.5°	665.2	464.6	587.8	971.5	1207.3	1200.2	1133.4	1112.2	1062.9	1052.4	1031.3
70°	492.8	309.7	408.3	788.5	1045.4	1027.8	974.9	950.3	904.6	879.9	865.9
72.5°	408.3	249.9	299.2	612.5	879.9	858.8	813.1	784.9	746.2	725.1	711.0
75°	330.9	264.0	228.7	454.0	714.5	700.5	658.2	630.0	598.3	570.2	573.7
77.5°	242.9	246.4	183.0	334.4	566.7	545.6	520.9	485.7	471.6	443.5	443.5
80°	183.0	193.6	137.3	228.7	408.3	408.3	387.2	362.6	337.9	323.9	323.9
82.5°	123.2	123.2	102.0	144.3	278.0	267.5	253.4	246.4	232.3	225.3	225.3
85°	56.3	70.4	63.3	88.0	151.3	158.4	158.4	151.3	147.9	140.7	144.3
87.5°	17.6	31.7	38.7	49.3	77.4	81.0	84.4	84.4	84.4	88.0	88.0
90°	16.6	29.9	43.2	46.5	73.1	108.5	126.3	112.2	84.2	63.1	63.1
92.5°	66.4	179.4	292.4	320.7	450.8	624.4	711.1	623.2	447.5	315.7	303.2
95°	159.5	366.2	573.0	624.7	1109.4	1755.6	2078.6	1854.9	1407.4	1071.7	1033.7
97.5°	275.8	458.2	640.6	686.2	1494.3	2571.7	3110.4	2969.0	2686.2	2474.1	2401.7
100°	365.5	530.9	696.4	737.8	1634.5	2830.0	3427.8	3438.1	3458.8	3474.3	3388.1
102.5°	442.0	596.3	750.6	789.3	1698.7	2911.2	3517.5	3697.7	4058.1	4328.4	4254.5
105°	571.6	702.3	833.0	865.7	1746.3	2920.5	3507.5	3911.5	4719.4	5325.2	5285.6
107.5°	704.5	826.4	948.2	978.7	1755.1	2790.5	3308.2	3871.6	4998.5	5843.7	5853.3
110°	794.2	904.3	1014.3	1041.8	1741.9	2675.3	3142.0	3772.0	5031.8	5976.6	6018.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	882.3	987.2	1092.1	1118.3	1742.4	2574.7	2990.8	3635.5	4924.8	5891.9	5955.4
115°	1015.3	1112.0	1208.7	1232.9	1758.5	2459.3	2809.7	3430.8	4672.8	5604.4	5692.5
117.5°	1146.5	1234.3	1322.2	1344.2	1791.1	2387.0	2685.0	3245.6	4366.6	5207.3	5305.0
120°	1222.9	1305.6	1388.3	1409.0	1817.7	2362.7	2635.2	3147.3	4171.6	4939.8	5034.7
122.5°	1297.6	1381.1	1464.6	1485.4	1856.0	2350.0	2597.0	3058.2	3980.5	4672.3	4765.9
125°	1412.4	1488.4	1564.5	1583.5	1907.5	2339.5	2555.5	2947.3	3730.8	4318.3	4404.6
127.5°	1505.3	1582.1	1659.0	1678.1	1958.9	2333.4	2520.6	2857.0	3529.7	4034.3	4107.0
130°	1555.2	1637.9	1720.6	1741.3	1996.6	2337.0	2507.3	2806.7	3405.7	3854.8	3922.0
132.5°	1606.7	1689.4	1772.1	1792.8	2027.0	2339.4	2495.6	2763.7	3299.9	3702.0	3762.2
135°	1683.1	1758.4	1833.8	1852.6	2060.3	2337.3	2475.7	2700.2	3149.2	3485.9	3537.8
137.5°	1761.3	1835.9	1910.4	1929.1	2110.2	2351.6	2472.4	2662.1	3041.8	3326.4	3368.9
140°	1826.1	1894.7	1963.5	1980.6	2140.6	2354.0	2460.7	2624.7	2952.6	3198.5	3238.2
142.5°	1875.9	1939.4	2002.9	2018.8	2166.1	2362.5	2460.7	2604.8	2892.7	3108.8	3143.0
145°	1952.4	2007.8	2063.1	2076.9	2199.3	2362.5	2444.1	2561.9	2797.5	2974.2	3000.0
147.5°	2028.7	2082.6	2136.5	2150.0	2248.1	2378.8	2444.1	2536.8	2722.2	2861.2	2882.6
150°	2078.6	2127.4	2176.1	2188.3	2273.5	2387.3	2444.1	2522.5	2679.0	2796.4	2813.7
152.5°	2130.1	2167.1	2203.9	2213.2	2290.2	2392.8	2444.1	2511.0	2644.6	2744.9	2758.0
155°	2206.6	2233.9	2261.2	2268.0	2326.7	2405.0	2444.1	2497.3	2603.7	2683.4	2692.1
157.5°	2263.1	2289.6	2316.2	2322.8	2363.2	2417.1	2444.1	2485.5	2568.2	2630.3	2636.4
160°	2301.3	2321.9	2342.6	2347.8	2379.9	2422.7	2444.1	2479.6	2550.4	2603.6	2607.2
162.5°	2339.4	2355.0	2370.4	2374.3	2397.6	2428.6	2444.1	2474.1	2533.9	2578.8	2582.0
165°	2381.0	2395.0	2409.1	2412.6	2423.1	2437.1	2444.1	2465.5	2508.3	2540.5	2544.0
167.5°	2419.3	2425.9	2432.5	2434.2	2443.1	2454.9	2460.7	2474.8	2502.8	2523.9	2525.4
170°	2444.1	2450.8	2457.5	2459.1	2459.7	2460.4	2460.7	2474.8	2502.8	2523.9	2523.9
172.5°	2457.5	2458.9	2460.4	2460.7	2460.7	2460.7	2460.7	2471.8	2494.0	2510.6	2509.3
175°	2475.7	2475.7	2475.7	2475.7	2470.8	2464.1	2460.7	2467.8	2481.8	2492.3	2492.3
177.5°	2475.7	2475.7	2475.7	2475.7	2471.8	2466.7	2464.1	2469.6	2480.7	2489.0	2487.5
180°	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3815.5	3804.9	3815.5	3808.4	3811.9	3801.4	3769.6	3759.1	3769.6	3780.2	3780.2
5°	3861.2	3854.2	3861.2	3861.2	3857.6	3850.6	3815.5	3808.4	3815.5	3818.9	3811.9
7.5°	3875.2	3864.8	3875.2	3868.2	3868.2	3861.2	3826.0	3818.9	3822.5	3833.1	3822.5
10°	3875.2	3864.8	3875.2	3871.8	3868.2	3861.2	3826.0	3811.9	3811.9	3822.5	3811.9
12.5°	3857.6	3850.6	3857.6	3850.6	3850.6	3843.6	3808.4	3794.3	3797.8	3801.4	3787.3
15°	3829.5	3818.9	3829.5	3822.5	3826.0	3815.5	3776.8	3762.6	3762.6	3769.6	3745.1
17.5°	3787.3	3773.2	3787.3	3783.8	3780.2	3773.2	3738.0	3723.9	3720.4	3723.9	3706.3
20°	3738.0	3727.5	3738.0	3734.5	3734.5	3720.4	3685.2	3667.6	3667.6	3667.6	3650.0
22.5°	3660.6	3650.0	3660.6	3667.6	3667.6	3664.1	3632.4	3607.8	3600.8	3600.8	3579.6
25°	3572.6	3562.0	3572.6	3572.6	3569.0	3572.6	3562.0	3547.9	3537.3	3526.8	3505.7
27.5°	3488.1	3481.0	3488.1	3481.0	3488.1	3477.5	3474.0	3470.5	3456.5	3445.9	3417.7
30°	3403.6	3396.6	3403.6	3396.6	3389.6	3382.5	3364.9	3357.9	3371.9	3364.9	3319.2
32.5°	3298.0	3291.0	3298.0	3298.0	3291.0	3291.0	3262.9	3252.3	3255.8	3276.9	3234.6
35°	3188.9	3178.3	3188.9	3185.4	3188.9	3178.3	3160.7	3157.2	3143.2	3167.8	3136.1
37.5°	3062.2	3051.6	3062.2	3062.2	3062.2	3069.3	3055.2	3044.6	3023.5	3055.2	3030.6
40°	2932.0	2917.9	2932.0	2928.4	2932.0	2939.0	2932.0	2924.9	2903.8	2928.4	2907.3
42.5°	2784.1	2780.6	2784.1	2787.7	2787.7	2801.7	2812.3	2798.2	2791.2	2773.6	2787.7
45°	2625.7	2618.7	2625.7	2632.8	2636.3	2643.3	2675.0	2675.0	2664.4	2636.3	2657.4
47.5°	2456.8	2439.2	2456.8	2478.0	2478.0	2488.4	2520.1	2544.8	2527.2	2492.0	2502.6
50°	2277.3	2280.8	2277.3	2291.4	2291.4	2330.1	2354.7	2379.4	2397.0	2354.7	2305.4
52.5°	2101.3	2097.8	2101.3	2111.8	2126.0	2143.5	2185.8	2210.4	2238.6	2214.0	2136.5
55°	1925.3	1932.4	1925.3	1928.8	1935.8	1946.4	2009.8	2034.4	2087.2	2055.5	1974.6
57.5°	1749.4	1738.8	1749.4	1756.4	1759.9	1770.4	1823.2	1869.0	1900.7	1904.2	1805.7
60°	1545.2	1531.1	1545.2	1576.8	1583.9	1590.9	1640.2	1682.5	1710.6	1721.2	1619.1
62.5°	1365.7	1341.1	1365.7	1386.8	1400.9	1418.5	1453.7	1517.1	1541.7	1545.2	1400.9
65°	1175.6	1165.1	1175.6	1217.8	1221.4	1242.5	1281.2	1326.9	1379.8	1372.7	1165.1
67.5°	1003.2	1003.2	1003.2	1031.3	1052.4	1062.9	1112.2	1133.4	1200.2	1207.3	971.5
70°	844.8	841.2	844.8	865.9	879.9	904.6	950.3	974.9	1027.8	1045.4	788.5
72.5°	693.4	689.9	693.4	711.0	725.1	746.2	784.9	813.1	858.8	879.9	612.5
75°	559.6	552.6	559.6	573.7	570.2	598.3	630.0	658.2	700.5	714.5	454.0
77.5°	429.4	429.4	429.4	443.5	443.5	471.6	485.7	520.9	545.6	566.7	334.4
80°	320.3	316.7	320.3	323.9	323.9	337.9	362.6	387.2	408.3	408.3	228.7
82.5°	225.3	218.2	225.3	225.3	225.3	232.3	246.4	253.4	267.5	278.0	144.3
85°	140.7	140.7	140.7	144.3	140.7	147.9	151.3	158.4	158.4	151.3	88.0
87.5°	91.6	88.0	91.6	88.0	88.0	84.4	84.4	84.4	81.0	77.4	49.3
90°	63.1	63.1	63.1	63.1	63.1	84.2	112.2	126.3	108.5	73.1	46.5
92.5°	252.9	202.7	252.9	303.2	315.7	447.5	623.2	711.1	624.4	450.8	320.7
95°	881.5	729.4	881.5	1033.7	1071.7	1407.4	1854.9	2078.6	1755.6	1109.4	624.7
97.5°	2112.2	1822.7	2112.2	2401.7	2474.1	2686.2	2969.0	3110.4	2571.7	1494.3	686.2
100°	3043.3	2698.4	3043.3	3388.1	3474.3	3458.8	3438.1	3427.8	2830.0	1634.5	737.8
102.5°	3959.1	3663.7	3959.1	4254.5	4328.4	4058.1	3697.7	3517.5	2911.2	1698.7	789.3
105°	5126.9	4968.1	5126.9	5285.6	5325.2	4719.4	3911.5	3507.5	2920.5	1746.3	865.7
107.5°	5891.7	5930.1	5891.7	5853.3	5843.7	4998.5	3871.6	3308.2	2790.5	1755.1	978.7
110°	6183.4	6348.8	6183.4	6018.0	5976.6	5031.8	3772.0	3142.0	2675.3	1741.9	1041.8





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6209.4	6463.5	6209.4	5955.4	5891.9	4924.8	3635.5	2990.8	2574.7	1742.4	1118.3
115°	6044.7	6397.0	6044.7	5692.5	5604.4	4672.8	3430.8	2809.7	2459.3	1758.5	1232.9
117.5°	5695.6	6086.3	5695.6	5305.0	5207.3	4366.6	3245.6	2685.0	2387.0	1791.1	1344.2
120°	5414.2	5793.8	5414.2	5034.7	4939.8	4171.6	3147.3	2635.2	2362.7	1817.7	1409.0
122.5°	5140.4	5514.7	5140.4	4765.9	4672.3	3980.5	3058.2	2597.0	2350.0	1856.0	1485.4
125°	4749.5	5094.4	4749.5	4404.6	4318.3	3730.8	2947.3	2555.5	2339.5	1907.5	1583.5
127.5°	4398.0	4688.9	4398.0	4107.0	4034.3	3529.7	2857.0	2520.6	2333.4	1958.9	1678.1
130°	4190.8	4459.6	4190.8	3922.0	3854.8	3405.7	2806.7	2507.3	2337.0	1996.6	1741.3
132.5°	4002.8	4243.6	4002.8	3762.2	3702.0	3299.9	2763.7	2495.6	2339.4	2027.0	1792.8
135°	3745.3	3952.8	3745.3	3537.8	3485.9	3149.2	2700.2	2475.7	2337.3	2060.3	1852.6
137.5°	3538.8	3708.6	3538.8	3368.9	3326.4	3041.8	2662.1	2472.4	2351.6	2110.2	1929.1
140°	3397.0	3555.7	3397.0	3238.2	3198.5	2952.6	2624.7	2460.7	2354.0	2140.6	1980.6
142.5°	3279.6	3416.1	3279.6	3143.0	3108.8	2892.7	2604.8	2460.7	2362.5	2166.1	2018.8
145°	3103.5	3206.8	3103.5	3000.0	2974.2	2797.5	2561.9	2444.1	2362.5	2199.3	2076.9
147.5°	2968.3	3053.9	2968.3	2882.6	2861.2	2722.2	2536.8	2444.1	2378.8	2248.1	2150.0
150°	2883.2	2952.6	2883.2	2813.7	2796.4	2679.0	2522.5	2444.1	2387.3	2273.5	2188.3
152.5°	2810.4	2862.8	2810.4	2758.0	2744.9	2644.6	2511.0	2444.1	2392.8	2290.2	2213.2
155°	2726.8	2761.5	2726.8	2692.1	2683.4	2603.7	2497.3	2444.1	2405.0	2326.7	2268.0
157.5°	2660.7	2685.0	2660.7	2636.4	2630.3	2568.2	2485.5	2444.1	2417.1	2363.2	2322.8
160°	2621.2	2635.2	2621.2	2607.2	2603.6	2550.4	2479.6	2444.1	2422.7	2379.9	2347.8
162.5°	2595.4	2608.7	2595.4	2582.0	2578.8	2533.9	2474.1	2444.1	2428.6	2397.6	2374.3
165°	2558.1	2572.1	2558.1	2544.0	2540.5	2508.3	2465.5	2444.1	2437.1	2423.1	2412.6
167.5°	2531.2	2537.2	2531.2	2525.4	2523.9	2502.8	2474.8	2460.7	2454.9	2443.1	2434.2
170°	2523.9	2523.9	2523.9	2523.9	2523.9	2502.8	2474.8	2460.7	2460.4	2459.7	2459.1
172.5°	2504.2	2499.0	2504.2	2509.3	2510.6	2494.0	2471.8	2460.7	2460.7	2460.7	2460.7
175°	2492.3	2492.3	2492.3	2492.3	2492.3	2481.8	2467.8	2460.7	2464.1	2470.8	2475.7
177.5°	2481.6	2475.7	2481.6	2487.5	2489.0	2480.7	2469.6	2464.1	2466.7	2471.8	2475.7
180°	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3773.2	3752.1	3752.1	3716.9	3702.8	3692.2	3674.6	3621.9	3607.8	3593.6	3614.8
5°	3804.9	3766.2	3738.0	3674.6	3621.9	3600.8	3533.9	3407.2	3322.6	3259.3	3224.2
7.5°	3811.9	3762.6	3709.8	3611.3	3484.6	3428.3	3224.2	2991.8	2928.4	2872.1	2836.9
10°	3804.9	3748.6	3674.6	3526.8	3227.6	3129.0	2924.9	2773.6	2734.9	2724.3	2734.9
12.5°	3780.2	3727.5	3625.3	3379.0	2960.1	2893.3	2773.6	2685.6	2678.6	2696.1	2791.2
15°	3738.0	3688.8	3569.0	3181.9	2812.3	2763.0	2678.6	2646.9	2685.6	2808.7	3093.9
17.5°	3695.8	3639.5	3491.6	2988.3	2699.7	2664.4	2604.6	2668.0	2886.2	3051.6	3146.7
20°	3639.5	3572.6	3403.6	2847.5	2618.7	2587.0	2558.9	2844.0	3009.4	3069.3	3122.0
22.5°	3572.6	3502.2	3283.9	2749.0	2534.3	2509.6	2527.2	2942.6	3009.4	3051.6	3097.4
25°	3484.6	3424.7	3143.2	2671.5	2467.4	2439.2	2506.1	2932.0	2970.7	2981.3	3072.7
27.5°	3403.6	3326.2	2995.3	2601.1	2386.4	2375.8	2523.7	2886.2	2914.4	2924.9	3023.5
30°	3305.0	3188.9	2829.9	2527.2	2302.0	2298.4	2527.2	2829.9	2822.9	2851.0	2949.6
32.5°	3203.0	2984.7	2643.3	2435.7	2221.0	2217.4	2502.6	2745.4	2738.4	2777.1	2851.0
35°	3108.0	2826.4	2390.0	2330.1	2118.9	2122.4	2442.7	2646.9	2650.4	2685.6	2731.3
37.5°	3009.4	2689.1	2111.8	2214.0	2020.4	2020.4	2361.7	2555.4	2548.3	2558.9	2622.3
40°	2893.3	2474.4	1865.5	2062.6	1928.8	1918.3	2263.2	2456.8	2432.1	2428.7	2516.7
42.5°	2770.0	2238.6	1682.5	1862.0	1823.2	1809.1	2143.5	2337.1	2291.4	2302.0	2414.6
45°	2636.3	2175.2	1541.7	1573.4	1714.1	1703.5	2013.3	2199.8	2168.1	2196.4	2312.5
47.5°	2502.6	2048.5	1495.9	1305.8	1598.0	1594.5	1869.0	2066.1	2048.5	2076.7	2199.8
50°	2319.5	1907.7	1492.4	1119.3	1467.8	1481.8	1696.5	1935.8	1935.8	1960.5	2090.7
52.5°	2083.7	1735.2	1355.1	1013.7	1316.4	1358.6	1545.2	1823.2	1830.3	1854.9	1971.1
55°	1869.0	1555.8	1256.5	932.8	1136.9	1228.4	1397.4	1707.1	1721.2	1745.8	1851.4
57.5°	1671.9	1295.2	1235.5	837.7	971.5	1059.5	1267.1	1594.5	1601.5	1622.6	1724.7
60°	1460.7	936.2	1133.4	735.6	827.2	894.0	1147.5	1460.7	1485.4	1499.4	1587.4
62.5°	1221.4	679.3	1027.8	665.2	756.8	770.9	1048.9	1334.0	1365.7	1376.2	1429.1
65°	869.4	570.2	872.9	605.4	682.9	686.3	943.3	1203.8	1231.9	1249.5	1288.2
67.5°	587.8	464.6	665.2	549.1	626.5	630.0	841.2	1052.4	1091.1	1105.2	1129.9
70°	408.3	309.7	492.8	489.3	563.2	570.2	732.2	915.2	950.3	960.9	974.9
72.5°	299.2	249.9	408.3	440.0	496.3	503.3	619.5	760.3	795.5	806.0	813.1
75°	228.7	264.0	330.9	383.6	422.3	425.9	506.9	619.5	644.2	651.2	654.6
77.5°	183.0	246.4	242.9	309.7	344.9	337.9	397.7	478.7	499.8	499.8	499.8
80°	137.3	193.6	183.0	221.7	253.4	246.4	285.1	341.4	348.5	355.5	352.0
82.5°	102.0	123.2	123.2	140.7	169.0	161.9	190.0	221.7	221.7	221.7	228.7
85°	63.3	70.4	56.3	73.9	95.0	91.6	105.6	119.7	123.2	123.2	116.2
87.5°	38.7	31.7	17.6	28.1	42.3	42.3	49.3	52.8	49.3	49.3	49.3
90°	43.2	29.9	16.6	29.9	43.2	46.5	73.1	108.5	126.3	112.2	84.2
92.5°	292.4	179.4	66.4	179.4	292.4	320.7	450.8	624.4	711.1	623.2	447.5
95°	573.0	366.2	159.5	366.2	573.0	624.7	1109.4	1755.6	2078.6	1854.9	1407.4
97.5°	640.6	458.2	275.8	458.2	640.6	686.2	1494.3	2571.7	3110.4	2969.0	2686.2
100°	696.4	530.9	365.5	530.9	696.4	737.8	1634.5	2830.0	3427.8	3438.1	3458.8
102.5°	750.6	596.3	442.0	596.3	750.6	789.3	1698.7	2911.2	3517.5	3697.7	4058.1
105°	833.0	702.3	571.6	702.3	833.0	865.7	1746.3	2920.5	3507.5	3911.5	4719.4
107.5°	948.2	826.4	704.5	826.4	948.2	978.7	1755.1	2790.5	3308.2	3871.6	4998.5
110°	1014.3	904.3	794.2	904.3	1014.3	1041.8	1741.9	2675.3	3142.0	3772.0	5031.8



TEST NUMBER: P936073

CATALOG NUMBER: SQ4-FA-150U-100D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1092.1	987.2	882.3	987.2	1092.1	1118.3	1742.4	2574.7	2990.8	3635.5	4924.8
115°	1208.7	1112.0	1015.3	1112.0	1208.7	1232.9	1758.5	2459.3	2809.7	3430.8	4672.8
117.5°	1322.2	1234.3	1146.5	1234.3	1322.2	1344.2	1791.1	2387.0	2685.0	3245.6	4366.6
120°	1388.3	1305.6	1222.9	1305.6	1388.3	1409.0	1817.7	2362.7	2635.2	3147.3	4171.6
122.5°	1464.6	1381.1	1297.6	1381.1	1464.6	1485.4	1856.0	2350.0	2597.0	3058.2	3980.5
125°	1564.5	1488.4	1412.4	1488.4	1564.5	1583.5	1907.5	2339.5	2555.5	2947.3	3730.8
127.5°	1659.0	1582.1	1505.3	1582.1	1659.0	1678.1	1958.9	2333.4	2520.6	2857.0	3529.7
130°	1720.6	1637.9	1555.2	1637.9	1720.6	1741.3	1996.6	2337.0	2507.3	2806.7	3405.7
132.5°	1772.1	1689.4	1606.7	1689.4	1772.1	1792.8	2027.0	2339.4	2495.6	2763.7	3299.9
135°	1833.8	1758.4	1683.1	1758.4	1833.8	1852.6	2060.3	2337.3	2475.7	2700.2	3149.2
137.5°	1910.4	1835.9	1761.3	1835.9	1910.4	1929.1	2110.2	2351.6	2472.4	2662.1	3041.8
140°	1963.5	1894.7	1826.1	1894.7	1963.5	1980.6	2140.6	2354.0	2460.7	2624.7	2952.6
142.5°	2002.9	1939.4	1875.9	1939.4	2002.9	2018.8	2166.1	2362.5	2460.7	2604.8	2892.7
145°	2063.1	2007.8	1952.4	2007.8	2063.1	2076.9	2199.3	2362.5	2444.1	2561.9	2797.5
147.5°	2136.5	2082.6	2028.7	2082.6	2136.5	2150.0	2248.1	2378.8	2444.1	2536.8	2722.2
150°	2176.1	2127.4	2078.6	2127.4	2176.1	2188.3	2273.5	2387.3	2444.1	2522.5	2679.0
152.5°	2203.9	2167.1	2130.1	2167.1	2203.9	2213.2	2290.2	2392.8	2444.1	2511.0	2644.6
155°	2261.2	2233.9	2206.6	2233.9	2261.2	2268.0	2326.7	2405.0	2444.1	2497.3	2603.7
157.5°	2316.2	2289.6	2263.1	2289.6	2316.2	2322.8	2363.2	2417.1	2444.1	2485.5	2568.2
160°	2342.6	2321.9	2301.3	2321.9	2342.6	2347.8	2379.9	2422.7	2444.1	2479.6	2550.4
162.5°	2370.4	2355.0	2339.4	2355.0	2370.4	2374.3	2397.6	2428.6	2444.1	2474.1	2533.9
165°	2409.1	2395.0	2381.0	2395.0	2409.1	2412.6	2423.1	2437.1	2444.1	2465.5	2508.3
167.5°	2432.5	2425.9	2419.3	2425.9	2432.5	2434.2	2443.1	2454.9	2460.7	2474.8	2502.8
170°	2457.5	2450.8	2444.1	2450.8	2457.5	2459.1	2459.7	2460.4	2460.7	2474.8	2502.8
172.5°	2460.4	2458.9	2457.5	2458.9	2460.4	2460.7	2460.7	2460.7	2460.7	2471.8	2494.0
175°	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2470.8	2464.1	2460.7	2467.8	2481.8
177.5°	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2471.8	2466.7	2464.1	2469.6	2480.7
180°	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7



TEST NUMBER: P936073

CATALOG NUMBER: SQ4-FA-150U-100D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3590.2	3579.6	3593.6	3554.9	3593.6	3579.6	3590.2	3614.8	3593.6	3607.8	3621.9
5°	3150.2	3132.6	3076.3	3030.6	3076.3	3132.6	3150.2	3224.2	3259.3	3322.6	3407.2
7.5°	2815.8	2801.7	2787.7	2759.5	2787.7	2801.7	2815.8	2836.9	2872.1	2928.4	2991.8
10°	2741.9	2745.4	2766.6	2763.0	2766.6	2745.4	2741.9	2734.9	2724.3	2734.9	2773.6
12.5°	2932.0	2963.6	3079.8	3072.7	3079.8	2963.6	2932.0	2791.2	2696.1	2678.6	2685.6
15°	3150.2	3160.7	3185.4	3188.9	3185.4	3160.7	3150.2	3093.9	2808.7	2685.6	2646.9
17.5°	3171.3	3174.9	3192.4	3192.4	3192.4	3174.9	3171.3	3146.7	3051.6	2886.2	2668.0
20°	3153.7	3160.7	3195.9	3203.0	3195.9	3160.7	3153.7	3122.0	3069.3	3009.4	2844.0
22.5°	3146.7	3160.7	3188.9	3185.4	3188.9	3160.7	3146.7	3097.4	3051.6	3009.4	2942.6
25°	3111.5	3111.5	3115.0	3118.5	3115.0	3111.5	3111.5	3072.7	2981.3	2970.7	2932.0
27.5°	3037.6	3044.6	3065.7	3062.2	3065.7	3044.6	3037.6	3023.5	2924.9	2914.4	2886.2
30°	2970.7	2963.6	2946.0	2932.0	2946.0	2963.6	2970.7	2949.6	2851.0	2822.9	2829.9
32.5°	2858.0	2840.4	2822.9	2812.3	2822.9	2840.4	2858.0	2851.0	2777.1	2738.4	2745.4
35°	2724.3	2727.8	2724.3	2713.7	2724.3	2727.8	2724.3	2731.3	2685.6	2650.4	2646.9
37.5°	2629.3	2636.3	2632.8	2618.7	2632.8	2636.3	2629.3	2622.3	2558.9	2548.3	2555.4
40°	2530.7	2534.3	2530.7	2520.1	2530.7	2534.3	2530.7	2516.7	2428.7	2432.1	2456.8
42.5°	2435.7	2432.1	2421.6	2414.6	2421.6	2432.1	2435.7	2414.6	2302.0	2291.4	2337.1
45°	2326.6	2330.1	2309.0	2298.4	2309.0	2330.1	2326.6	2312.5	2196.4	2168.1	2199.8
47.5°	2217.4	2217.4	2199.8	2189.3	2199.8	2217.4	2217.4	2199.8	2076.7	2048.5	2066.1
50°	2101.3	2097.8	2073.1	2069.7	2073.1	2097.8	2101.3	2090.7	1960.5	1935.8	1935.8
52.5°	1967.5	1967.5	1971.1	1978.1	1971.1	1967.5	1967.5	1971.1	1854.9	1830.3	1823.2
55°	1851.4	1854.9	1879.5	1886.6	1879.5	1854.9	1851.4	1851.4	1745.8	1721.2	1707.1
57.5°	1731.7	1731.7	1749.4	1749.4	1749.4	1731.7	1731.7	1724.7	1622.6	1601.5	1594.5
60°	1594.5	1601.5	1615.5	1612.1	1615.5	1601.5	1594.5	1587.4	1499.4	1485.4	1460.7
62.5°	1450.1	1457.2	1460.7	1453.7	1460.7	1457.2	1450.1	1429.1	1376.2	1365.7	1334.0
65°	1298.8	1305.8	1309.4	1302.3	1309.4	1305.8	1298.8	1288.2	1249.5	1231.9	1203.8
67.5°	1143.9	1140.4	1136.9	1150.9	1136.9	1140.4	1143.9	1129.9	1105.2	1091.1	1052.4
70°	985.5	985.5	982.0	989.1	982.0	985.5	985.5	974.9	960.9	950.3	915.2
72.5°	816.6	813.1	827.2	816.6	827.2	813.1	816.6	813.1	806.0	795.5	760.3
75°	651.2	658.2	651.2	661.7	651.2	658.2	651.2	654.6	651.2	644.2	619.5
77.5°	496.3	503.3	496.3	496.3	496.3	503.3	496.3	499.8	499.8	499.8	478.7
80°	352.0	348.5	348.5	344.9	348.5	348.5	352.0	352.0	355.5	348.5	341.4
82.5°	225.3	221.7	221.7	228.7	221.7	221.7	225.3	228.7	221.7	221.7	221.7
85°	123.2	126.7	119.7	119.7	119.7	126.7	123.2	116.2	123.2	123.2	119.7
87.5°	45.7	42.3	42.3	42.3	42.3	42.3	45.7	49.3	49.3	49.3	52.8
90°	63.1	63.1	63.1	63.1	63.1	63.1	63.1	84.2	112.2	126.3	108.5
92.5°	315.7	303.2	252.9	202.7	252.9	303.2	315.7	447.5	623.2	711.1	624.4
95°	1071.7	1033.7	881.5	729.4	881.5	1033.7	1071.7	1407.4	1854.9	2078.6	1755.6
97.5°	2474.1	2401.7	2112.2	1822.7	2112.2	2401.7	2474.1	2686.2	2969.0	3110.4	2571.7
100°	3474.3	3388.1	3043.3	2698.4	3043.3	3388.1	3474.3	3458.8	3438.1	3427.8	2830.0
102.5°	4328.4	4254.5	3959.1	3663.7	3959.1	4254.5	4328.4	4058.1	3697.7	3517.5	2911.2
105°	5325.2	5285.6	5126.9	4968.1	5126.9	5285.6	5325.2	4719.4	3911.5	3507.5	2920.5
107.5°	5843.7	5853.3	5891.7	5930.1	5891.7	5853.3	5843.7	4998.5	3871.6	3308.2	2790.5
110°	5976.6	6018.0	6183.4	6348.8	6183.4	6018.0	5976.6	5031.8	3772.0	3142.0	2675.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	5891.9	5955.4	6209.4	6463.5	6209.4	5955.4	5891.9	4924.8	3635.5	2990.8	2574.7
115°	5604.4	5692.5	6044.7	6397.0	6044.7	5692.5	5604.4	4672.8	3430.8	2809.7	2459.3
117.5°	5207.3	5305.0	5695.6	6086.3	5695.6	5305.0	5207.3	4366.6	3245.6	2685.0	2387.0
120°	4939.8	5034.7	5414.2	5793.8	5414.2	5034.7	4939.8	4171.6	3147.3	2635.2	2362.7
122.5°	4672.3	4765.9	5140.4	5514.7	5140.4	4765.9	4672.3	3980.5	3058.2	2597.0	2350.0
125°	4318.3	4404.6	4749.5	5094.4	4749.5	4404.6	4318.3	3730.8	2947.3	2555.5	2339.5
127.5°	4034.3	4107.0	4398.0	4688.9	4398.0	4107.0	4034.3	3529.7	2857.0	2520.6	2333.4
130°	3854.8	3922.0	4190.8	4459.6	4190.8	3922.0	3854.8	3405.7	2806.7	2507.3	2337.0
132.5°	3702.0	3762.2	4002.8	4243.6	4002.8	3762.2	3702.0	3299.9	2763.7	2495.6	2339.4
135°	3485.9	3537.8	3745.3	3952.8	3745.3	3537.8	3485.9	3149.2	2700.2	2475.7	2337.3
137.5°	3326.4	3368.9	3538.8	3708.6	3538.8	3368.9	3326.4	3041.8	2662.1	2472.4	2351.6
140°	3198.5	3238.2	3397.0	3555.7	3397.0	3238.2	3198.5	2952.6	2624.7	2460.7	2354.0
142.5°	3108.8	3143.0	3279.6	3416.1	3279.6	3143.0	3108.8	2892.7	2604.8	2460.7	2362.5
145°	2974.2	3000.0	3103.5	3206.8	3103.5	3000.0	2974.2	2797.5	2561.9	2444.1	2362.5
147.5°	2861.2	2882.6	2968.3	3053.9	2968.3	2882.6	2861.2	2722.2	2536.8	2444.1	2378.8
150°	2796.4	2813.7	2883.2	2952.6	2883.2	2813.7	2796.4	2679.0	2522.5	2444.1	2387.3
152.5°	2744.9	2758.0	2810.4	2862.8	2810.4	2758.0	2744.9	2644.6	2511.0	2444.1	2392.8
155°	2683.4	2692.1	2726.8	2761.5	2726.8	2692.1	2683.4	2603.7	2497.3	2444.1	2405.0
157.5°	2630.3	2636.4	2660.7	2685.0	2660.7	2636.4	2630.3	2568.2	2485.5	2444.1	2417.1
160°	2603.6	2607.2	2621.2	2635.2	2621.2	2607.2	2603.6	2550.4	2479.6	2444.1	2422.7
162.5°	2578.8	2582.0	2595.4	2608.7	2595.4	2582.0	2578.8	2533.9	2474.1	2444.1	2428.6
165°	2540.5	2544.0	2558.1	2572.1	2558.1	2544.0	2540.5	2508.3	2465.5	2444.1	2437.1
167.5°	2523.9	2525.4	2531.2	2537.2	2531.2	2525.4	2523.9	2502.8	2474.8	2460.7	2454.9
170°	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2502.8	2474.8	2460.7	2460.4
172.5°	2510.6	2509.3	2504.2	2499.0	2504.2	2509.3	2510.6	2494.0	2471.8	2460.7	2460.7
175°	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2492.3	2481.8	2467.8	2460.7	2464.1
177.5°	2489.0	2487.5	2481.6	2475.7	2481.6	2487.5	2489.0	2480.7	2469.6	2464.1	2466.7
180°	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3720.4	3720.4	3720.4	3720.4	3720.4
2.5°	3674.6	3692.2	3702.8	3716.9	3752.1
5°	3533.9	3600.8	3621.9	3674.6	3738.0
7.5°	3224.2	3428.3	3484.6	3611.3	3709.8
10°	2924.9	3129.0	3227.6	3526.8	3674.6
12.5°	2773.6	2893.3	2960.1	3379.0	3625.3
15°	2678.6	2763.0	2812.3	3181.9	3569.0
17.5°	2604.6	2664.4	2699.7	2988.3	3491.6
20°	2558.9	2587.0	2618.7	2847.5	3403.6
22.5°	2527.2	2509.6	2534.3	2749.0	3283.9
25°	2506.1	2439.2	2467.4	2671.5	3143.2
27.5°	2523.7	2375.8	2386.4	2601.1	2995.3
30°	2527.2	2298.4	2302.0	2527.2	2829.9
32.5°	2502.6	2217.4	2221.0	2435.7	2643.3
35°	2442.7	2122.4	2118.9	2330.1	2390.0
37.5°	2361.7	2020.4	2020.4	2214.0	2111.8
40°	2263.2	1918.3	1928.8	2062.6	1865.5
42.5°	2143.5	1809.1	1823.2	1862.0	1682.5
45°	2013.3	1703.5	1714.1	1573.4	1541.7
47.5°	1869.0	1594.5	1598.0	1305.8	1495.9
50°	1696.5	1481.8	1467.8	1119.3	1492.4
52.5°	1545.2	1358.6	1316.4	1013.7	1355.1
55°	1397.4	1228.4	1136.9	932.8	1256.5
57.5°	1267.1	1059.5	971.5	837.7	1235.5
60°	1147.5	894.0	827.2	735.6	1133.4
62.5°	1048.9	770.9	756.8	665.2	1027.8
65°	943.3	686.3	682.9	605.4	872.9
67.5°	841.2	630.0	626.5	549.1	665.2
70°	732.2	570.2	563.2	489.3	492.8
72.5°	619.5	503.3	496.3	440.0	408.3
75°	506.9	425.9	422.3	383.6	330.9
77.5°	397.7	337.9	344.9	309.7	242.9
80°	285.1	246.4	253.4	221.7	183.0
82.5°	190.0	161.9	169.0	140.7	123.2
85°	105.6	91.6	95.0	73.9	56.3
87.5°	49.3	42.3	42.3	28.1	17.6
90°	73.1	46.5	43.2	29.9	16.6
92.5°	450.8	320.7	292.4	179.4	66.4
95°	1109.4	624.7	573.0	366.2	159.5
97.5°	1494.3	686.2	640.6	458.2	275.8
100°	1634.5	737.8	696.4	530.9	365.5
102.5°	1698.7	789.3	750.6	596.3	442.0
105°	1746.3	865.7	833.0	702.3	571.6
107.5°	1755.1	978.7	948.2	826.4	704.5
110°	1741.9	1041.8	1014.3	904.3	794.2



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CATALOG NUMBER: SQ4-FA-150U-100D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1742.4	1118.3	1092.1	987.2	882.3
115°	1758.5	1232.9	1208.7	1112.0	1015.3
117.5°	1791.1	1344.2	1322.2	1234.3	1146.5
120°	1817.7	1409.0	1388.3	1305.6	1222.9
122.5°	1856.0	1485.4	1464.6	1381.1	1297.6
125°	1907.5	1583.5	1564.5	1488.4	1412.4
127.5°	1958.9	1678.1	1659.0	1582.1	1505.3
130°	1996.6	1741.3	1720.6	1637.9	1555.2
132.5°	2027.0	1792.8	1772.1	1689.4	1606.7
135°	2060.3	1852.6	1833.8	1758.4	1683.1
137.5°	2110.2	1929.1	1910.4	1835.9	1761.3
140°	2140.6	1980.6	1963.5	1894.7	1826.1
142.5°	2166.1	2018.8	2002.9	1939.4	1875.9
145°	2199.3	2076.9	2063.1	2007.8	1952.4
147.5°	2248.1	2150.0	2136.5	2082.6	2028.7
150°	2273.5	2188.3	2176.1	2127.4	2078.6
152.5°	2290.2	2213.2	2203.9	2167.1	2130.1
155°	2326.7	2268.0	2261.2	2233.9	2206.6
157.5°	2363.2	2322.8	2316.2	2289.6	2263.1
160°	2379.9	2347.8	2342.6	2321.9	2301.3
162.5°	2397.6	2374.3	2370.4	2355.0	2339.4
165°	2423.1	2412.6	2409.1	2395.0	2381.0
167.5°	2443.1	2434.2	2432.5	2425.9	2419.3
170°	2459.7	2459.1	2457.5	2450.8	2444.1
172.5°	2460.7	2460.7	2460.4	2458.9	2457.5
175°	2470.8	2475.7	2475.7	2475.7	2475.7
177.5°	2471.8	2475.7	2475.7	2475.7	2475.7
180°	2475.7	2475.7	2475.7	2475.7	2475.7



TEST NUMBER: P936073  
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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	12.03	12.79	13.08	13.85	15.29	14.88	15.64	15.94	16.70	18.14
	3H	12.50	13.18	13.56	14.25	15.70	16.22	16.90	17.29	17.97	19.43
	4H	12.68	13.33	13.76	14.40	15.86	16.67	17.31	17.74	18.38	19.85
	6H	12.80	13.39	13.88	14.46	15.94	16.95	17.55	18.04	18.62	20.10
	8H	12.79	13.36	13.89	14.45	15.92	17.03	17.59	18.12	18.68	20.15
	12H	12.76	13.30	13.86	14.38	15.88	17.06	17.60	18.16	18.69	20.18
4H	2H	13.05	13.70	14.14	14.77	16.23	15.27	15.92	16.36	16.99	18.45
	3H	14.07	14.61	15.16	15.71	17.18	16.78	17.31	17.87	18.41	19.89
	4H	14.34	14.83	15.44	15.92	17.42	17.31	17.80	18.40	18.89	20.38
	6H	14.46	14.88	15.57	16.00	17.49	17.67	18.09	18.78	19.20	20.70
	8H	14.46	14.86	15.57	15.96	17.47	17.78	18.17	18.88	19.28	20.78
	12H	14.43	14.78	15.55	15.90	17.41	17.83	18.19	18.96	19.31	20.82
8H	4H	14.79	15.19	15.90	16.29	17.80	17.42	17.82	18.53	18.92	20.43
	6H	15.05	15.37	16.17	16.52	18.02	17.86	18.18	18.99	19.33	20.83
	8H	15.09	15.37	16.22	16.50	18.02	18.01	18.30	19.15	19.43	20.95
	12H	15.07	15.32	16.21	16.44	18.00	18.11	18.36	19.25	19.48	21.05
12H	4H	14.79	15.15	15.91	16.27	17.78	17.38	17.74	18.50	18.85	20.37
	6H	15.11	15.39	16.24	16.52	18.04	17.85	18.14	18.99	19.27	20.79
	8H	15.17	15.42	16.31	16.54	18.10	18.01	18.27	19.15	19.39	20.95