

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: P934119

Luminaire Tested: SQ4-FA-025U-125D-840-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934119
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

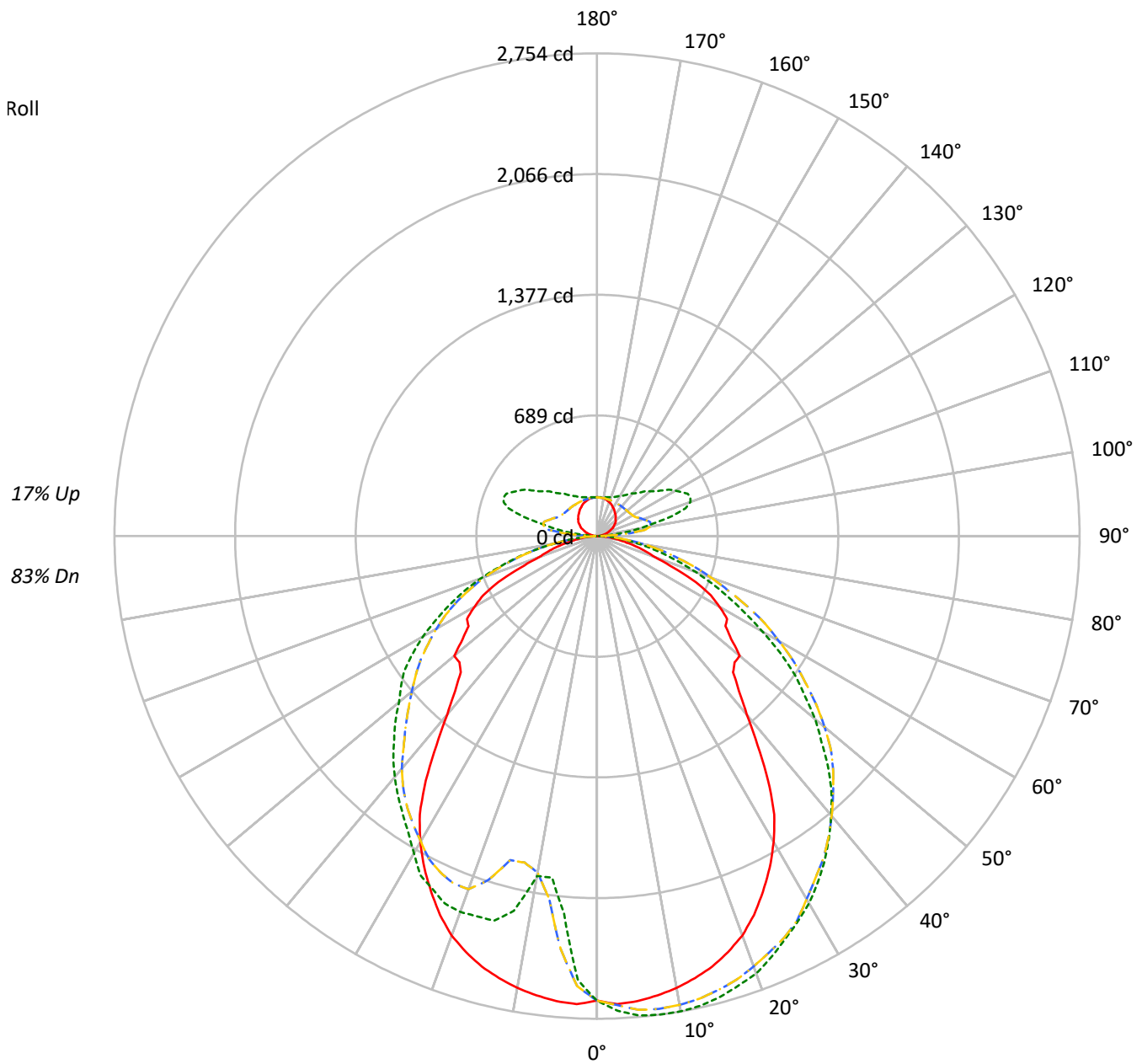
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8307.1 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16397	16397	16397	16397
5°	16514	16552	16514	13015
10°	16397	16305	16397	11657
15°	16213	15952	16213	13319
20°	15867	15533	15867	13348
25°	15167	14923	15167	13065
30°	14264	14416	14264	12444
35°	12710	13775	12710	11761
40°	10585	13021	10585	11246
45°	9452	12137	9452	10652
50°	10034	11084	10034	10057
55°	9430	9949	9430	9713
60°	9710	8450	9710	8897
65°	8789	6984	8789	7807
70°	6071	5566	6071	6544
75°	5304	4115	5304	4928
80°	4244	2720	4244	2961
85°	2391	1441	2391	1225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14495 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	2.9
10°-20°	679.3	8.2
20°-30°	1050.1	12.6
30°-40°	1253.6	15.1
40°-50°	1261.0	15.2
50°-60°	1097.2	13.2
60°-70°	777.9	9.4
70°-80°	411.6	5.0
80°-90°	103.3	1.2
90°-100°	107.8	1.3
100°-110°	283.4	3.4
110°-120°	293.9	3.5
120°-130°	235.7	2.8
130°-140°	185.0	2.2
140°-150°	142.0	1.7
150°-160°	102.2	1.2
160°-170°	62.6	0.8
170°-180°	21.1	0.3
0°-30°	1968.7	23.7
0°-40°	3222.3	38.8
0°-60°	5580.5	67.2
0°-90°	6873.4	82.7
90°-120°	685.1	8.2
90°-150°	1247.8	15.0
90°-180°	1434.0	17.3
0°-180°	8307.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2651	2651	2651	2651	2651	
5°	2663	2746	2663	2159	2663	253
15°	2543	2721	2543	2272	2543	715
25°	2239	2538	2239	2222	2239	1028
35°	1703	2264	1703	1933	1703	1053
45°	1098	1866	1098	1638	1098	880
55°	895	1377	895	1344	895	823
65°	622	830	622	928	622	594
75°	236	394	236	472	236	248
85°	40	100	40	85	40	54
90°	2	6	2	6	2	3
95°	14	65	14	65	14	16
105°	51	444	51	444	51	54
115°	91	572	91	572	91	90
125°	126	455	126	455	126	112
135°	150	353	150	353	150	116
145°	174	286	174	286	174	109
155°	197	247	197	247	197	91
165°	213	230	213	230	213	60
175°	221	223	221	223	221	21
180°	221	221	221	221	221	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6
2.5°	2673.1	2673.1	2688.2	2693.2	2693.2	2685.7	2678.2	2685.7	2708.3	2715.8	2713.2
5°	2663.2	2683.2	2710.8	2715.8	2720.9	2718.3	2713.2	2718.3	2743.4	2748.4	2750.9
7.5°	2643.1	2680.6	2715.8	2723.3	2730.8	2723.3	2720.9	2725.8	2750.9	2755.9	2755.9
10°	2618.0	2670.7	2710.8	2715.8	2723.3	2715.8	2715.8	2725.8	2750.9	2755.9	2758.4
12.5°	2582.9	2655.6	2693.2	2698.2	2708.3	2705.7	2703.3	2713.2	2738.3	2743.4	2743.4
15°	2542.8	2628.0	2663.2	2668.2	2685.7	2680.6	2680.6	2690.7	2718.3	2725.8	2723.3
17.5°	2487.6	2592.9	2633.0	2640.5	2653.1	2650.6	2653.1	2663.2	2688.2	2693.2	2695.8
20°	2424.9	2545.3	2592.9	2600.4	2613.0	2613.0	2613.0	2625.5	2650.6	2660.6	2660.6
22.5°	2339.7	2495.1	2545.3	2550.3	2565.3	2565.3	2570.4	2587.9	2610.5	2613.0	2613.0
25°	2239.3	2440.0	2482.5	2497.7	2512.7	2520.2	2527.7	2537.8	2545.3	2542.8	2545.3
27.5°	2134.0	2369.7	2424.9	2434.9	2455.0	2462.5	2472.6	2475.0	2477.6	2485.1	2480.1
30°	2016.1	2271.9	2354.7	2364.7	2397.3	2402.3	2392.3	2397.3	2409.8	2414.9	2419.9
32.5°	1883.2	2126.5	2282.0	2304.5	2334.6	2319.6	2317.1	2324.6	2344.6	2344.6	2349.7
35°	1702.7	2013.6	2214.3	2234.4	2256.9	2239.3	2249.4	2251.8	2264.4	2271.9	2269.4
37.5°	1504.6	1915.8	2144.1	2159.1	2176.7	2154.0	2169.2	2176.7	2186.6	2181.7	2181.7
40°	1329.1	1762.9	2061.3	2071.3	2086.4	2068.8	2083.9	2088.9	2093.9	2088.9	2086.4
42.5°	1198.6	1594.8	1973.5	1986.1	1976.0	1988.5	1993.6	2003.7	1996.1	1986.1	1986.1
45°	1098.4	1549.8	1878.2	1893.3	1878.2	1898.3	1905.9	1905.9	1883.2	1878.2	1875.7
47.5°	1065.8	1459.5	1782.9	1782.9	1775.4	1800.5	1813.1	1795.5	1772.9	1765.4	1765.4
50°	1063.3	1359.2	1652.5	1642.6	1677.6	1707.8	1695.2	1677.6	1660.0	1632.5	1632.5
52.5°	965.5	1236.3	1484.6	1522.1	1577.3	1594.8	1574.8	1557.3	1527.2	1514.6	1504.6
55°	895.2	1108.3	1331.5	1406.8	1464.5	1487.0	1449.4	1431.9	1386.8	1379.2	1374.2
57.5°	880.2	922.8	1191.1	1286.5	1356.6	1354.2	1331.5	1298.9	1261.4	1253.9	1251.3
60°	807.5	667.0	1040.7	1153.5	1226.2	1218.7	1198.6	1168.6	1133.4	1128.5	1123.5
62.5°	732.2	484.0	870.1	998.1	1100.8	1098.4	1080.8	1035.6	1010.6	998.1	988.0
65°	621.9	406.3	619.4	830.0	978.0	983.0	945.4	912.8	885.2	870.1	867.7
67.5°	473.9	331.0	418.8	692.1	860.2	855.1	807.5	792.4	757.3	749.8	734.8
70°	351.0	220.7	290.9	561.7	744.8	732.2	694.7	677.1	644.5	626.9	616.9
72.5°	290.9	178.0	213.1	436.3	626.9	611.9	579.3	559.2	531.6	516.6	506.5
75°	235.7	188.1	163.0	323.5	509.0	499.0	468.9	448.8	426.3	406.3	408.7
77.5°	173.0	175.6	130.4	238.2	403.7	388.7	371.1	346.1	336.0	316.0	316.0
80°	130.4	137.9	97.8	163.0	290.9	290.9	275.8	258.3	240.8	230.7	230.7
82.5°	87.7	87.7	72.7	102.9	198.1	190.6	180.5	175.6	165.5	160.5	160.5
85°	40.1	50.2	45.2	62.7	107.8	112.8	112.8	107.8	105.3	100.3	102.9
87.5°	12.5	22.5	27.6	35.1	55.1	57.7	60.2	60.2	60.2	62.7	62.7
90°	1.5	2.7	3.9	4.1	6.5	9.7	11.3	10.0	7.5	5.6	5.6
92.5°	5.9	16.0	26.1	28.7	40.3	55.8	63.5	55.6	39.9	28.2	27.1
95°	14.2	32.7	51.2	55.8	99.1	156.8	185.6	165.7	125.7	95.7	92.4
97.5°	24.6	40.9	57.2	61.3	133.5	229.7	277.8	265.2	240.0	221.0	214.6
100°	32.7	47.4	62.2	65.9	146.0	252.8	306.2	307.1	308.9	310.3	302.6
102.5°	39.5	53.4	67.1	70.5	151.8	260.0	314.2	330.3	362.5	386.7	380.1
105°	51.1	62.7	74.4	77.4	156.0	260.8	313.3	349.4	421.6	475.7	472.2
107.5°	62.9	73.8	84.7	87.4	156.8	249.3	295.5	345.9	446.6	522.1	522.9
110°	70.9	80.8	90.6	93.1	155.6	239.0	280.7	337.0	449.5	533.9	537.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	78.8	88.2	97.5	99.9	155.6	230.0	267.2	324.8	440.0	526.3	531.9
115°	90.7	99.4	108.0	110.2	157.1	219.6	251.0	306.5	417.4	500.6	508.5
117.5°	102.5	110.3	118.1	120.0	160.0	213.2	239.9	290.0	390.1	465.2	473.8
120°	109.3	116.7	124.0	125.9	162.4	211.1	235.4	281.2	372.7	441.3	449.8
122.5°	115.9	123.4	130.8	132.7	165.8	210.0	232.0	273.2	355.6	417.4	425.8
125°	126.2	133.0	139.8	141.5	170.4	209.1	228.3	263.3	333.4	385.8	393.5
127.5°	134.5	141.3	148.2	149.9	175.0	208.5	225.2	255.2	315.4	360.4	366.9
130°	138.9	146.3	153.6	155.5	178.3	208.8	224.0	250.8	304.2	344.3	350.3
132.5°	143.6	151.0	158.3	160.2	181.1	209.1	223.0	246.9	294.8	330.7	336.0
135°	150.4	157.1	163.8	165.5	184.1	208.9	221.2	241.3	281.4	311.4	316.1
137.5°	157.4	164.0	170.6	172.3	188.5	210.1	220.9	237.9	271.8	297.2	300.9
140°	163.1	169.2	175.4	177.0	191.3	210.3	219.8	234.5	263.8	285.7	289.3
142.5°	167.6	173.2	178.9	180.3	193.5	211.0	219.8	232.7	258.5	277.7	280.8
145°	174.4	179.3	184.3	185.5	196.5	211.0	218.3	228.8	249.9	265.7	267.9
147.5°	181.2	186.0	190.9	192.1	200.9	212.5	218.3	226.6	243.1	255.6	257.5
150°	185.6	190.0	194.4	195.5	203.1	213.3	218.3	225.4	239.3	249.8	251.3
152.5°	190.3	193.5	196.9	197.7	204.6	213.8	218.3	224.3	236.2	245.2	246.4
155°	197.1	199.6	202.0	202.6	207.9	214.9	218.3	223.1	232.6	239.7	240.5
157.5°	202.1	204.5	206.9	207.5	211.1	216.0	218.3	222.0	229.4	234.9	235.5
160°	205.6	207.5	209.3	209.8	212.6	216.5	218.3	221.5	227.8	232.6	232.9
162.5°	209.0	210.3	211.7	212.1	214.2	217.0	218.3	221.0	226.4	230.4	230.7
165°	212.7	213.9	215.2	215.5	216.5	217.8	218.3	220.2	224.1	226.9	227.2
167.5°	216.1	216.7	217.3	217.5	218.2	219.3	219.8	221.1	223.6	225.5	225.6
170°	218.3	218.9	219.5	219.6	219.7	219.8	219.8	221.1	223.6	225.5	225.5
172.5°	219.5	219.6	219.8	219.8	219.8	219.8	219.8	220.8	222.8	224.3	224.2
175°	221.2	221.2	221.2	221.2	220.7	220.1	219.8	220.4	221.7	222.7	222.7
177.5°	221.2	221.2	221.2	221.2	220.8	220.3	220.1	220.6	221.6	222.4	222.3
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6
2.5°	2718.3	2710.8	2718.3	2713.2	2715.8	2708.3	2685.7	2678.2	2685.7	2693.2	2693.2
5°	2750.9	2745.8	2750.9	2750.9	2748.4	2743.4	2718.3	2713.2	2718.3	2720.9	2715.8
7.5°	2761.0	2753.5	2761.0	2755.9	2755.9	2750.9	2725.8	2720.9	2723.3	2730.8	2723.3
10°	2761.0	2753.5	2761.0	2758.4	2755.9	2750.9	2725.8	2715.8	2715.8	2723.3	2715.8
12.5°	2748.4	2743.4	2748.4	2743.4	2743.4	2738.3	2713.2	2703.3	2705.7	2708.3	2698.2
15°	2728.4	2720.9	2728.4	2723.3	2725.8	2718.3	2690.7	2680.6	2680.6	2685.7	2668.2
17.5°	2698.2	2688.2	2698.2	2695.8	2693.2	2688.2	2663.2	2653.1	2650.6	2653.1	2640.5
20°	2663.2	2655.6	2663.2	2660.6	2660.6	2650.6	2625.5	2613.0	2613.0	2613.0	2600.4
22.5°	2607.9	2600.4	2607.9	2613.0	2613.0	2610.5	2587.9	2570.4	2565.3	2565.3	2550.3
25°	2545.3	2537.8	2545.3	2545.3	2542.8	2545.3	2537.8	2527.7	2520.2	2512.7	2497.7
27.5°	2485.1	2480.1	2485.1	2480.1	2485.1	2477.6	2475.0	2472.6	2462.5	2455.0	2434.9
30°	2424.9	2419.9	2424.9	2419.9	2414.9	2409.8	2397.3	2392.3	2402.3	2397.3	2364.7
32.5°	2349.7	2344.6	2349.7	2349.7	2344.6	2344.6	2324.6	2317.1	2319.6	2334.6	2304.5
35°	2271.9	2264.4	2271.9	2269.4	2271.9	2264.4	2251.8	2249.4	2239.3	2256.9	2234.4
37.5°	2181.7	2174.1	2181.7	2181.7	2181.7	2186.6	2176.7	2169.2	2154.0	2176.7	2159.1
40°	2088.9	2078.9	2088.9	2086.4	2088.9	2093.9	2088.9	2083.9	2068.8	2086.4	2071.3
42.5°	1983.6	1981.0	1983.6	1986.1	1986.1	1996.1	2003.7	1993.6	1988.5	1976.0	1986.1
45°	1870.7	1865.7	1870.7	1875.7	1878.2	1883.2	1905.9	1905.9	1898.3	1878.2	1893.3
47.5°	1750.3	1737.8	1750.3	1765.4	1765.4	1772.9	1795.5	1813.1	1800.5	1775.4	1782.9
50°	1622.5	1625.0	1622.5	1632.5	1632.5	1660.0	1677.6	1695.2	1707.8	1677.6	1642.6
52.5°	1497.1	1494.5	1497.1	1504.6	1514.6	1527.2	1557.3	1574.8	1594.8	1577.3	1522.1
55°	1371.6	1376.7	1371.6	1374.2	1379.2	1386.8	1431.9	1449.4	1487.0	1464.5	1406.8
57.5°	1246.3	1238.8	1246.3	1251.3	1253.9	1261.4	1298.9	1331.5	1354.2	1356.6	1286.5
60°	1100.8	1090.9	1100.8	1123.5	1128.5	1133.4	1168.6	1198.6	1218.7	1226.2	1153.5
62.5°	973.0	955.4	973.0	988.0	998.1	1010.6	1035.6	1080.8	1098.4	1100.8	998.1
65°	837.5	830.0	837.5	867.7	870.1	885.2	912.8	945.4	983.0	978.0	830.0
67.5°	714.7	714.7	714.7	734.8	749.8	757.3	792.4	807.5	855.1	860.2	692.1
70°	601.8	599.3	601.8	616.9	626.9	644.5	677.1	694.7	732.2	744.8	561.7
72.5°	494.0	491.5	494.0	506.5	516.6	531.6	559.2	579.3	611.9	626.9	436.3
75°	398.8	393.7	398.8	408.7	406.3	426.3	448.8	468.9	499.0	509.0	323.5
77.5°	306.0	306.0	306.0	316.0	316.0	336.0	346.1	371.1	388.7	403.7	238.2
80°	228.2	225.7	228.2	230.7	230.7	240.8	258.3	275.8	290.9	290.9	163.0
82.5°	160.5	155.5	160.5	160.5	160.5	165.5	175.6	180.5	190.6	198.1	102.9
85°	100.3	100.3	100.3	102.9	100.3	105.3	107.8	112.8	112.8	107.8	62.7
87.5°	65.2	62.7	65.2	62.7	62.7	60.2	60.2	60.2	57.7	55.1	35.1
90°	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.3	9.7	6.5	4.1
92.5°	22.5	18.1	22.5	27.1	28.2	39.9	55.6	63.5	55.8	40.3	28.7
95°	78.7	65.2	78.7	92.4	95.7	125.7	165.7	185.6	156.8	99.1	55.8
97.5°	188.7	162.8	188.7	214.6	221.0	240.0	265.2	277.8	229.7	133.5	61.3
100°	271.9	241.1	271.9	302.6	310.3	308.9	307.1	306.2	252.8	146.0	65.9
102.5°	353.7	327.3	353.7	380.1	386.7	362.5	330.3	314.2	260.0	151.8	70.5
105°	458.0	443.8	458.0	472.2	475.7	421.6	349.4	313.3	260.8	156.0	77.4
107.5°	526.3	529.8	526.3	522.9	522.1	446.6	345.9	295.5	249.3	156.8	87.4
110°	552.4	567.2	552.4	537.6	533.9	449.5	337.0	280.7	239.0	155.6	93.1



TEST NUMBER: P934119

CATALOG NUMBER: SQ4-FA-025U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	554.7	577.4	554.7	531.9	526.3	440.0	324.8	267.2	230.0	155.6	99.9
115°	539.9	571.5	539.9	508.5	500.6	417.4	306.5	251.0	219.6	157.1	110.2
117.5°	508.8	543.7	508.8	473.8	465.2	390.1	290.0	239.9	213.2	160.0	120.0
120°	483.7	517.6	483.7	449.8	441.3	372.7	281.2	235.4	211.1	162.4	125.9
122.5°	459.2	492.6	459.2	425.8	417.4	355.6	273.2	232.0	210.0	165.8	132.7
125°	424.2	455.1	424.2	393.5	385.8	333.4	263.3	228.3	209.1	170.4	141.5
127.5°	392.9	418.9	392.9	366.9	360.4	315.4	255.2	225.2	208.5	175.0	149.9
130°	374.4	398.4	374.4	350.3	344.3	304.2	250.8	224.0	208.8	178.3	155.5
132.5°	357.6	379.1	357.6	336.0	330.7	294.8	246.9	223.0	209.1	181.1	160.2
135°	334.5	353.1	334.5	316.1	311.4	281.4	241.3	221.2	208.9	184.1	165.5
137.5°	316.2	331.3	316.2	300.9	297.2	271.8	237.9	220.9	210.1	188.5	172.3
140°	303.4	317.6	303.4	289.3	285.7	263.8	234.5	219.8	210.3	191.3	177.0
142.5°	292.9	305.2	292.9	280.8	277.7	258.5	232.7	219.8	211.0	193.5	180.3
145°	277.2	286.5	277.2	267.9	265.7	249.9	228.8	218.3	211.0	196.5	185.5
147.5°	265.2	272.8	265.2	257.5	255.6	243.1	226.6	218.3	212.5	200.9	192.1
150°	257.6	263.8	257.6	251.3	249.8	239.3	225.4	218.3	213.3	203.1	195.5
152.5°	251.1	255.8	251.1	246.4	245.2	236.2	224.3	218.3	213.8	204.6	197.7
155°	243.5	246.7	243.5	240.5	239.7	232.6	223.1	218.3	214.9	207.9	202.6
157.5°	237.7	239.9	237.7	235.5	234.9	229.4	222.0	218.3	216.0	211.1	207.5
160°	234.2	235.4	234.2	232.9	232.6	227.8	221.5	218.3	216.5	212.6	209.8
162.5°	231.9	233.1	231.9	230.7	230.4	226.4	221.0	218.3	217.0	214.2	212.1
165°	228.5	229.8	228.5	227.2	226.9	224.1	220.2	218.3	217.8	216.5	215.5
167.5°	226.2	226.6	226.2	225.6	225.5	223.6	221.1	219.8	219.3	218.2	217.5
170°	225.5	225.5	225.5	225.5	225.5	223.6	221.1	219.8	219.8	219.7	219.6
172.5°	223.7	223.3	223.7	224.2	224.3	222.8	220.8	219.8	219.8	219.8	219.8
175°	222.7	222.7	222.7	222.7	222.7	221.7	220.4	219.8	220.1	220.7	221.2
177.5°	221.7	221.2	221.7	222.3	222.4	221.6	220.6	220.1	220.3	220.8	221.2
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P934119

CATALOG NUMBER: SQ4-FA-025U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6
2.5°	2688.2	2673.1	2673.1	2648.1	2638.1	2630.6	2618.0	2580.4	2570.4	2560.3	2575.3
5°	2710.8	2683.2	2663.2	2618.0	2580.4	2565.3	2517.7	2427.4	2367.2	2322.1	2297.0
7.5°	2715.8	2680.6	2643.1	2572.9	2482.5	2442.4	2297.0	2131.5	2086.4	2046.2	2021.2
10°	2710.8	2670.7	2618.0	2512.7	2299.6	2229.3	2083.9	1976.0	1948.4	1940.9	1948.4
12.5°	2693.2	2655.6	2582.9	2407.4	2109.0	2061.3	1976.0	1913.4	1908.3	1920.9	1988.5
15°	2663.2	2628.0	2542.8	2267.0	2003.7	1968.5	1908.3	1885.8	1913.4	2001.1	2204.2
17.5°	2633.0	2592.9	2487.6	2129.0	1923.3	1898.3	1855.7	1900.8	2056.3	2174.1	2241.9
20°	2592.9	2545.3	2424.9	2028.7	1865.7	1843.1	1823.1	2026.2	2144.1	2186.6	2224.3
22.5°	2545.3	2495.1	2339.7	1958.5	1805.5	1788.0	1800.5	2096.4	2144.1	2174.1	2206.7
25°	2482.5	2440.0	2239.3	1903.3	1757.8	1737.8	1785.4	2088.9	2116.5	2124.0	2189.2
27.5°	2424.9	2369.7	2134.0	1853.2	1700.2	1692.6	1798.0	2056.3	2076.4	2083.9	2154.0
30°	2354.7	2271.9	2016.1	1800.5	1640.0	1637.5	1800.5	2016.1	2011.2	2031.2	2101.4
32.5°	2282.0	2126.5	1883.2	1735.3	1582.4	1579.8	1782.9	1955.9	1951.0	1978.6	2031.2
35°	2214.3	2013.6	1702.7	1660.0	1509.6	1512.1	1740.4	1885.8	1888.3	1913.4	1946.0
37.5°	2144.1	1915.8	1504.6	1577.3	1439.4	1439.4	1682.7	1820.6	1815.5	1823.1	1868.2
40°	2061.3	1762.9	1329.1	1469.5	1374.2	1366.7	1612.4	1750.3	1732.8	1730.3	1793.0
42.5°	1973.5	1594.8	1198.6	1326.6	1298.9	1288.9	1527.2	1665.1	1632.5	1640.0	1720.2
45°	1878.2	1549.8	1098.4	1120.9	1221.3	1213.7	1434.4	1567.3	1544.7	1564.8	1647.5
47.5°	1782.9	1459.5	1065.8	930.3	1138.5	1136.0	1331.5	1472.0	1459.5	1479.5	1567.3
50°	1652.5	1359.2	1063.3	797.4	1045.7	1055.7	1208.7	1379.2	1379.2	1396.7	1489.5
52.5°	1484.6	1236.3	965.5	722.2	937.9	967.9	1100.8	1298.9	1304.0	1321.5	1404.2
55°	1331.5	1108.3	895.2	664.5	810.0	875.2	995.5	1216.2	1226.2	1243.8	1319.0
57.5°	1191.1	922.8	880.2	596.9	692.1	754.8	902.7	1136.0	1140.9	1156.1	1228.8
60°	1040.7	667.0	807.5	524.1	589.3	637.0	817.5	1040.7	1058.2	1068.2	1131.0
62.5°	870.1	484.0	732.2	473.9	539.2	549.1	747.3	950.4	973.0	980.5	1018.1
65°	619.4	406.3	621.9	431.4	486.5	489.0	672.0	857.6	877.6	890.2	917.9
67.5°	418.8	331.0	473.9	391.1	446.4	448.8	599.3	749.8	777.4	787.4	804.9
70°	290.9	220.7	351.0	348.6	401.2	406.3	521.6	652.0	677.1	684.6	694.7
72.5°	213.1	178.0	290.9	313.5	353.6	358.6	441.3	541.6	566.7	574.2	579.3
75°	163.0	188.1	235.7	273.4	300.9	303.4	361.1	441.3	458.9	464.0	466.4
77.5°	130.4	175.6	173.0	220.7	245.7	240.8	283.4	341.1	356.1	356.1	356.1
80°	97.8	137.9	130.4	158.0	180.5	175.6	203.1	243.2	248.3	253.2	250.8
82.5°	72.7	87.7	87.7	100.3	120.3	115.4	135.5	158.0	158.0	158.0	163.0
85°	45.2	50.2	40.1	52.7	67.7	65.2	75.2	85.3	87.7	87.7	82.8
87.5°	27.6	22.5	12.5	20.1	30.1	30.1	35.1	37.6	35.1	35.1	35.1
90°	3.9	2.7	1.5	2.7	3.9	4.1	6.5	9.7	11.3	10.0	7.5
92.5°	26.1	16.0	5.9	16.0	26.1	28.7	40.3	55.8	63.5	55.6	39.9
95°	51.2	32.7	14.2	32.7	51.2	55.8	99.1	156.8	185.6	165.7	125.7
97.5°	57.2	40.9	24.6	40.9	57.2	61.3	133.5	229.7	277.8	265.2	240.0
100°	62.2	47.4	32.7	47.4	62.2	65.9	146.0	252.8	306.2	307.1	308.9
102.5°	67.1	53.4	39.5	53.4	67.1	70.5	151.8	260.0	314.2	330.3	362.5
105°	74.4	62.7	51.1	62.7	74.4	77.4	156.0	260.8	313.3	349.4	421.6
107.5°	84.7	73.8	62.9	73.8	84.7	87.4	156.8	249.3	295.5	345.9	446.6
110°	90.6	80.8	70.9	80.8	90.6	93.1	155.6	239.0	280.7	337.0	449.5



TEST NUMBER: P934119

CATALOG NUMBER: SQ4-FA-025U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	97.5	88.2	78.8	88.2	97.5	99.9	155.6	230.0	267.2	324.8	440.0
115°	108.0	99.4	90.7	99.4	108.0	110.2	157.1	219.6	251.0	306.5	417.4
117.5°	118.1	110.3	102.5	110.3	118.1	120.0	160.0	213.2	239.9	290.0	390.1
120°	124.0	116.7	109.3	116.7	124.0	125.9	162.4	211.1	235.4	281.2	372.7
122.5°	130.8	123.4	115.9	123.4	130.8	132.7	165.8	210.0	232.0	273.2	355.6
125°	139.8	133.0	126.2	133.0	139.8	141.5	170.4	209.1	228.3	263.3	333.4
127.5°	148.2	141.3	134.5	141.3	148.2	149.9	175.0	208.5	225.2	255.2	315.4
130°	153.6	146.3	138.9	146.3	153.6	155.5	178.3	208.8	224.0	250.8	304.2
132.5°	158.3	151.0	143.6	151.0	158.3	160.2	181.1	209.1	223.0	246.9	294.8
135°	163.8	157.1	150.4	157.1	163.8	165.5	184.1	208.9	221.2	241.3	281.4
137.5°	170.6	164.0	157.4	164.0	170.6	172.3	188.5	210.1	220.9	237.9	271.8
140°	175.4	169.2	163.1	169.2	175.4	177.0	191.3	210.3	219.8	234.5	263.8
142.5°	178.9	173.2	167.6	173.2	178.9	180.3	193.5	211.0	219.8	232.7	258.5
145°	184.3	179.3	174.4	179.3	184.3	185.5	196.5	211.0	218.3	228.8	249.9
147.5°	190.9	186.0	181.2	186.0	190.9	192.1	200.9	212.5	218.3	226.6	243.1
150°	194.4	190.0	185.6	190.0	194.4	195.5	203.1	213.3	218.3	225.4	239.3
152.5°	196.9	193.5	190.3	193.5	196.9	197.7	204.6	213.8	218.3	224.3	236.2
155°	202.0	199.6	197.1	199.6	202.0	202.6	207.9	214.9	218.3	223.1	232.6
157.5°	206.9	204.5	202.1	204.5	206.9	207.5	211.1	216.0	218.3	222.0	229.4
160°	209.3	207.5	205.6	207.5	209.3	209.8	212.6	216.5	218.3	221.5	227.8
162.5°	211.7	210.3	209.0	210.3	211.7	212.1	214.2	217.0	218.3	221.0	226.4
165°	215.2	213.9	212.7	213.9	215.2	215.5	216.5	217.8	218.3	220.2	224.1
167.5°	217.3	216.7	216.1	216.7	217.3	217.5	218.2	219.3	219.8	221.1	223.6
170°	219.5	218.9	218.3	218.9	219.5	219.6	219.7	219.8	219.8	221.1	223.6
172.5°	219.8	219.6	219.5	219.6	219.8	219.8	219.8	219.8	219.8	220.8	222.8
175°	221.2	221.2	221.2	221.2	221.2	221.2	220.7	220.1	219.8	220.4	221.7
177.5°	221.2	221.2	221.2	221.2	221.2	221.2	220.8	220.3	220.1	220.6	221.6
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P934119
 CATALOG NUMBER: SQ4-FA-025U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6	2650.6
2.5°	2557.8	2550.3	2560.3	2532.7	2560.3	2550.3	2557.8	2575.3	2560.3	2570.4	2580.4
5°	2244.3	2231.8	2191.7	2159.1	2191.7	2231.8	2244.3	2297.0	2322.1	2367.2	2427.4
7.5°	2006.1	1996.1	1986.1	1966.0	1986.1	1996.1	2006.1	2021.2	2046.2	2086.4	2131.5
10°	1953.5	1955.9	1971.1	1968.5	1971.1	1955.9	1953.5	1948.4	1940.9	1948.4	1976.0
12.5°	2088.9	2111.5	2194.2	2189.2	2194.2	2111.5	2088.9	1988.5	1920.9	1908.3	1913.4
15°	2244.3	2251.8	2269.4	2271.9	2269.4	2251.8	2244.3	2204.2	2001.1	1913.4	1885.8
17.5°	2259.4	2261.9	2274.5	2274.5	2274.5	2261.9	2259.4	2241.9	2174.1	2056.3	1900.8
20°	2246.9	2251.8	2276.9	2282.0	2276.9	2251.8	2246.9	2224.3	2186.6	2144.1	2026.2
22.5°	2241.9	2251.8	2271.9	2269.4	2271.9	2251.8	2241.9	2206.7	2174.1	2144.1	2096.4
25°	2216.8	2216.8	2219.2	2221.8	2219.2	2216.8	2216.8	2189.2	2124.0	2116.5	2088.9
27.5°	2164.1	2169.2	2184.2	2181.7	2184.2	2169.2	2164.1	2154.0	2083.9	2076.4	2056.3
30°	2116.5	2111.5	2098.9	2088.9	2098.9	2111.5	2116.5	2101.4	2031.2	2011.2	2016.1
32.5°	2036.3	2023.7	2011.2	2003.7	2011.2	2023.7	2036.3	2031.2	1978.6	1951.0	1955.9
35°	1940.9	1943.4	1940.9	1933.4	1940.9	1943.4	1940.9	1946.0	1913.4	1888.3	1885.8
37.5°	1873.2	1878.2	1875.7	1865.7	1875.7	1878.2	1873.2	1868.2	1823.1	1815.5	1820.6
40°	1803.0	1805.5	1803.0	1795.5	1803.0	1805.5	1803.0	1793.0	1730.3	1732.8	1750.3
42.5°	1735.3	1732.8	1725.2	1720.2	1725.2	1732.8	1735.3	1720.2	1640.0	1632.5	1665.1
45°	1657.6	1660.0	1645.0	1637.5	1645.0	1660.0	1657.6	1647.5	1564.8	1544.7	1567.3
47.5°	1579.8	1579.8	1567.3	1559.8	1567.3	1579.8	1579.8	1567.3	1479.5	1459.5	1472.0
50°	1497.1	1494.5	1477.1	1474.5	1477.1	1494.5	1497.1	1489.5	1396.7	1379.2	1379.2
52.5°	1401.8	1401.8	1404.2	1409.3	1404.2	1401.8	1401.8	1404.2	1321.5	1304.0	1298.9
55°	1319.0	1321.5	1339.1	1344.1	1339.1	1321.5	1319.0	1319.0	1243.8	1226.2	1216.2
57.5°	1233.8	1233.8	1246.3	1246.3	1246.3	1233.8	1233.8	1228.8	1156.1	1140.9	1136.0
60°	1136.0	1140.9	1151.0	1148.6	1151.0	1140.9	1136.0	1131.0	1068.2	1058.2	1040.7
62.5°	1033.2	1038.2	1040.7	1035.6	1040.7	1038.2	1033.2	1018.1	980.5	973.0	950.4
65°	925.4	930.3	932.9	927.8	932.9	930.3	925.4	917.9	890.2	877.6	857.6
67.5°	815.0	812.4	810.0	820.0	810.0	812.4	815.0	804.9	787.4	777.4	749.8
70°	702.2	702.2	699.6	704.6	699.6	702.2	702.2	694.7	684.6	677.1	652.0
72.5°	581.7	579.3	589.3	581.7	589.3	579.3	581.7	579.3	574.2	566.7	541.6
75°	464.0	468.9	464.0	471.5	464.0	468.9	464.0	466.4	464.0	458.9	441.3
77.5°	353.6	358.6	353.6	353.6	353.6	358.6	353.6	356.1	356.1	356.1	341.1
80°	250.8	248.3	248.3	245.7	248.3	248.3	250.8	250.8	253.2	248.3	243.2
82.5°	160.5	158.0	158.0	163.0	158.0	158.0	160.5	163.0	158.0	158.0	158.0
85°	87.7	90.3	85.3	85.3	85.3	90.3	87.7	82.8	87.7	87.7	85.3
87.5°	32.6	30.1	30.1	30.1	30.1	30.1	32.6	35.1	35.1	35.1	37.6
90°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.3	9.7
92.5°	28.2	27.1	22.5	18.1	22.5	27.1	28.2	39.9	55.6	63.5	55.8
95°	95.7	92.4	78.7	65.2	78.7	92.4	95.7	125.7	165.7	185.6	156.8
97.5°	221.0	214.6	188.7	162.8	188.7	214.6	221.0	240.0	265.2	277.8	229.7
100°	310.3	302.6	271.9	241.1	271.9	302.6	310.3	308.9	307.1	306.2	252.8
102.5°	386.7	380.1	353.7	327.3	353.7	380.1	386.7	362.5	330.3	314.2	260.0
105°	475.7	472.2	458.0	443.8	458.0	472.2	475.7	421.6	349.4	313.3	260.8
107.5°	522.1	522.9	526.3	529.8	526.3	522.9	522.1	446.6	345.9	295.5	249.3
110°	533.9	537.6	552.4	567.2	552.4	537.6	533.9	449.5	337.0	280.7	239.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	526.3	531.9	554.7	577.4	554.7	531.9	526.3	440.0	324.8	267.2	230.0
115°	500.6	508.5	539.9	571.5	539.9	508.5	500.6	417.4	306.5	251.0	219.6
117.5°	465.2	473.8	508.8	543.7	508.8	473.8	465.2	390.1	290.0	239.9	213.2
120°	441.3	449.8	483.7	517.6	483.7	449.8	441.3	372.7	281.2	235.4	211.1
122.5°	417.4	425.8	459.2	492.6	459.2	425.8	417.4	355.6	273.2	232.0	210.0
125°	385.8	393.5	424.2	455.1	424.2	393.5	385.8	333.4	263.3	228.3	209.1
127.5°	360.4	366.9	392.9	418.9	392.9	366.9	360.4	315.4	255.2	225.2	208.5
130°	344.3	350.3	374.4	398.4	374.4	350.3	344.3	304.2	250.8	224.0	208.8
132.5°	330.7	336.0	357.6	379.1	357.6	336.0	330.7	294.8	246.9	223.0	209.1
135°	311.4	316.1	334.5	353.1	334.5	316.1	311.4	281.4	241.3	221.2	208.9
137.5°	297.2	300.9	316.2	331.3	316.2	300.9	297.2	271.8	237.9	220.9	210.1
140°	285.7	289.3	303.4	317.6	303.4	289.3	285.7	263.8	234.5	219.8	210.3
142.5°	277.7	280.8	292.9	305.2	292.9	280.8	277.7	258.5	232.7	219.8	211.0
145°	265.7	267.9	277.2	286.5	277.2	267.9	265.7	249.9	228.8	218.3	211.0
147.5°	255.6	257.5	265.2	272.8	265.2	257.5	255.6	243.1	226.6	218.3	212.5
150°	249.8	251.3	257.6	263.8	257.6	251.3	249.8	239.3	225.4	218.3	213.3
152.5°	245.2	246.4	251.1	255.8	251.1	246.4	245.2	236.2	224.3	218.3	213.8
155°	239.7	240.5	243.5	246.7	243.5	240.5	239.7	232.6	223.1	218.3	214.9
157.5°	234.9	235.5	237.7	239.9	237.7	235.5	234.9	229.4	222.0	218.3	216.0
160°	232.6	232.9	234.2	235.4	234.2	232.9	232.6	227.8	221.5	218.3	216.5
162.5°	230.4	230.7	231.9	233.1	231.9	230.7	230.4	226.4	221.0	218.3	217.0
165°	226.9	227.2	228.5	229.8	228.5	227.2	226.9	224.1	220.2	218.3	217.8
167.5°	225.5	225.6	226.2	226.6	226.2	225.6	225.5	223.6	221.1	219.8	219.3
170°	225.5	225.5	225.5	225.5	225.5	225.5	225.5	223.6	221.1	219.8	219.8
172.5°	224.3	224.2	223.7	223.3	223.7	224.2	224.3	222.8	220.8	219.8	219.8
175°	222.7	222.7	222.7	222.7	222.7	222.7	222.7	221.7	220.4	219.8	220.1
177.5°	222.4	222.3	221.7	221.2	221.7	222.3	222.4	221.6	220.6	220.1	220.3
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2650.6	2650.6	2650.6	2650.6	2650.6
2.5°	2618.0	2630.6	2638.1	2648.1	2673.1
5°	2517.7	2565.3	2580.4	2618.0	2663.2
7.5°	2297.0	2442.4	2482.5	2572.9	2643.1
10°	2083.9	2229.3	2299.6	2512.7	2618.0
12.5°	1976.0	2061.3	2109.0	2407.4	2582.9
15°	1908.3	1968.5	2003.7	2267.0	2542.8
17.5°	1855.7	1898.3	1923.3	2129.0	2487.6
20°	1823.1	1843.1	1865.7	2028.7	2424.9
22.5°	1800.5	1788.0	1805.5	1958.5	2339.7
25°	1785.4	1737.8	1757.8	1903.3	2239.3
27.5°	1798.0	1692.6	1700.2	1853.2	2134.0
30°	1800.5	1637.5	1640.0	1800.5	2016.1
32.5°	1782.9	1579.8	1582.4	1735.3	1883.2
35°	1740.4	1512.1	1509.6	1660.0	1702.7
37.5°	1682.7	1439.4	1439.4	1577.3	1504.6
40°	1612.4	1366.7	1374.2	1469.5	1329.1
42.5°	1527.2	1288.9	1298.9	1326.6	1198.6
45°	1434.4	1213.7	1221.3	1120.9	1098.4
47.5°	1331.5	1136.0	1138.5	930.3	1065.8
50°	1208.7	1055.7	1045.7	797.4	1063.3
52.5°	1100.8	967.9	937.9	722.2	965.5
55°	995.5	875.2	810.0	664.5	895.2
57.5°	902.7	754.8	692.1	596.9	880.2
60°	817.5	637.0	589.3	524.1	807.5
62.5°	747.3	549.1	539.2	473.9	732.2
65°	672.0	489.0	486.5	431.4	621.9
67.5°	599.3	448.8	446.4	391.1	473.9
70°	521.6	406.3	401.2	348.6	351.0
72.5°	441.3	358.6	353.6	313.5	290.9
75°	361.1	303.4	300.9	273.4	235.7
77.5°	283.4	240.8	245.7	220.7	173.0
80°	203.1	175.6	180.5	158.0	130.4
82.5°	135.5	115.4	120.3	100.3	87.7
85°	75.2	65.2	67.7	52.7	40.1
87.5°	35.1	30.1	30.1	20.1	12.5
90°	6.5	4.1	3.9	2.7	1.5
92.5°	40.3	28.7	26.1	16.0	5.9
95°	99.1	55.8	51.2	32.7	14.2
97.5°	133.5	61.3	57.2	40.9	24.6
100°	146.0	65.9	62.2	47.4	32.7
102.5°	151.8	70.5	67.1	53.4	39.5
105°	156.0	77.4	74.4	62.7	51.1
107.5°	156.8	87.4	84.7	73.8	62.9
110°	155.6	93.1	90.6	80.8	70.9



TEST NUMBER: P934119

CATALOG NUMBER: SQ4-FA-025U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	155.6	99.9	97.5	88.2	78.8
115°	157.1	110.2	108.0	99.4	90.7
117.5°	160.0	120.0	118.1	110.3	102.5
120°	162.4	125.9	124.0	116.7	109.3
122.5°	165.8	132.7	130.8	123.4	115.9
125°	170.4	141.5	139.8	133.0	126.2
127.5°	175.0	149.9	148.2	141.3	134.5
130°	178.3	155.5	153.6	146.3	138.9
132.5°	181.1	160.2	158.3	151.0	143.6
135°	184.1	165.5	163.8	157.1	150.4
137.5°	188.5	172.3	170.6	164.0	157.4
140°	191.3	177.0	175.4	169.2	163.1
142.5°	193.5	180.3	178.9	173.2	167.6
145°	196.5	185.5	184.3	179.3	174.4
147.5°	200.9	192.1	190.9	186.0	181.2
150°	203.1	195.5	194.4	190.0	185.6
152.5°	204.6	197.7	196.9	193.5	190.3
155°	207.9	202.6	202.0	199.6	197.1
157.5°	211.1	207.5	206.9	204.5	202.1
160°	212.6	209.8	209.3	207.5	205.6
162.5°	214.2	212.1	211.7	210.3	209.0
165°	216.5	215.5	215.2	213.9	212.7
167.5°	218.2	217.5	217.3	216.7	216.1
170°	219.7	219.6	219.5	218.9	218.3
172.5°	219.8	219.8	219.8	219.6	219.5
175°	220.7	221.2	221.2	221.2	221.2
177.5°	220.8	221.2	221.2	221.2	221.2
180°	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P934119
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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	17.13	18.39	17.75	19.02	19.73	19.96	21.21	20.57	21.84	22.55
	3H	17.64	18.77	18.27	19.41	20.15	21.33	22.46	21.96	23.10	23.84
	4H	17.85	18.91	18.49	19.56	20.32	21.79	22.86	22.44	23.50	24.27
	6H	17.99	18.97	18.65	19.63	20.41	22.09	23.08	22.75	23.74	24.51
	8H	18.00	18.94	18.67	19.62	20.40	22.18	23.12	22.85	23.80	24.58
	12H	17.98	18.88	18.66	19.55	20.36	22.23	23.13	22.91	23.80	24.61
4H	2H	18.21	19.28	18.86	19.92	20.69	20.41	21.48	21.06	22.13	22.89
	3H	19.27	20.16	19.94	20.85	21.63	21.95	22.84	22.62	23.53	24.31
	4H	19.57	20.37	20.25	21.06	21.87	22.50	23.30	23.18	23.99	24.80
	6H	19.71	20.41	20.41	21.13	21.95	22.88	23.58	23.58	24.30	25.12
	8H	19.73	20.38	20.43	21.10	21.93	23.00	23.65	23.70	24.36	25.20
	12H	19.71	20.30	20.44	21.04	21.88	23.07	23.66	23.80	24.40	25.24
8H	4H	20.05	20.70	20.76	21.42	22.25	22.65	23.31	23.36	24.02	24.85
	6H	20.33	20.87	21.06	21.63	22.46	23.10	23.65	23.84	24.40	25.24
	8H	20.37	20.86	21.12	21.62	22.47	23.26	23.74	24.01	24.50	25.35
	12H	20.38	20.80	21.13	21.55	22.46	23.37	23.80	24.12	24.55	25.46
12H	4H	20.07	20.66	20.80	21.40	22.24	22.64	23.22	23.36	23.96	24.80
	6H	20.39	20.88	21.14	21.63	22.49	23.10	23.59	23.85	24.35	25.20
	8H	20.48	20.90	21.23	21.65	22.56	23.28	23.71	24.03	24.46	25.37