

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: P934551

Luminaire Tested: SQ4-FA-050U-125D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934551
REPORT IS A COMBINATION OF REPORTS P933703 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

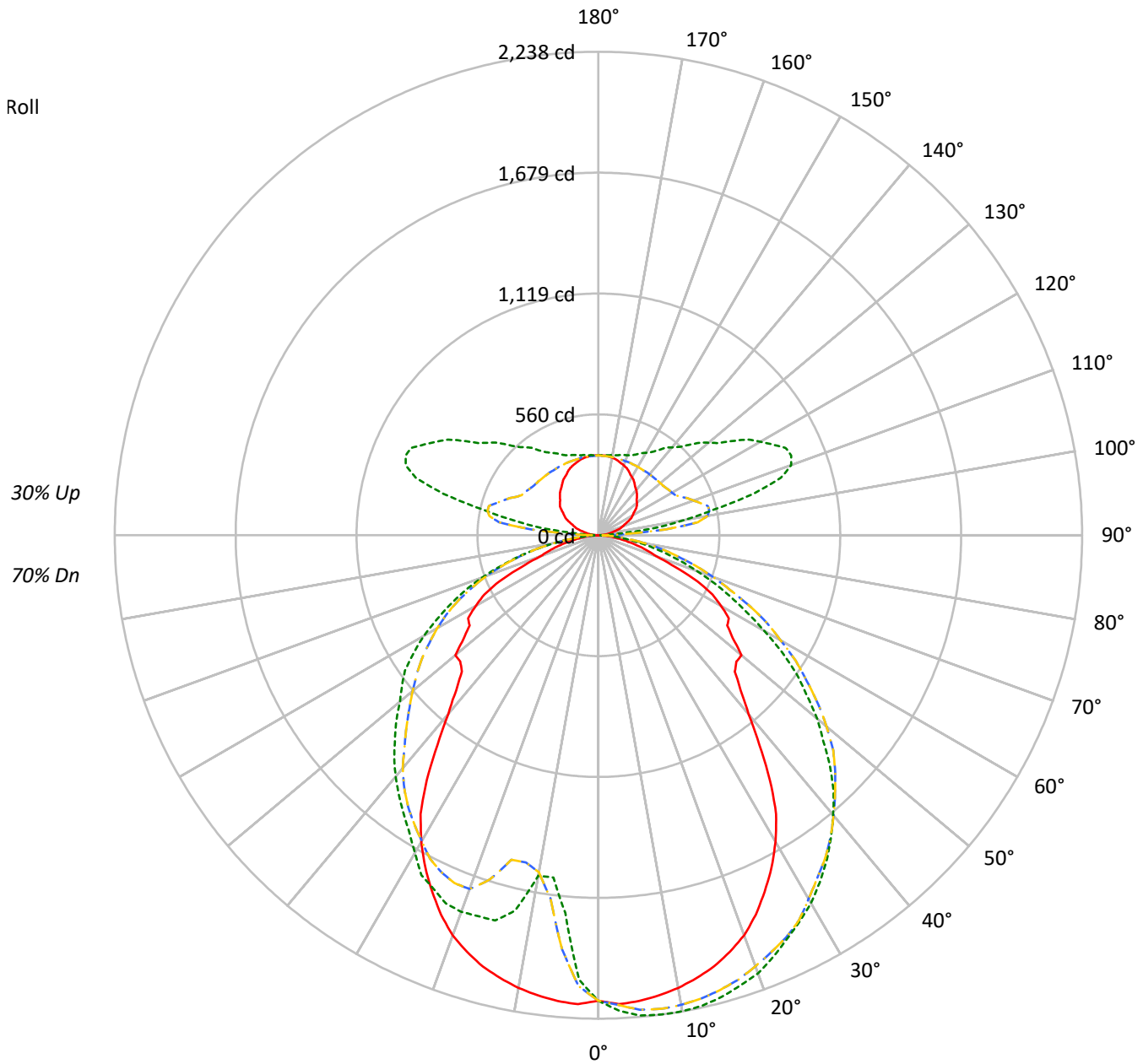
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7985.1 lumens
Efficiency: N/A
Efficacy: 95.1 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): 84
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	29	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13327	13327	13327	13327
5°	13422	13453	13422	10578
10°	13327	13252	13327	9474
15°	13177	12965	13177	10825
20°	12897	12625	12897	10848
25°	12327	12128	12327	10618
30°	11593	11717	11593	10114
35°	10331	11195	10331	9559
40°	8603	10582	8603	9140
45°	7682	9865	7682	8658
50°	8155	9008	8155	8174
55°	7665	8086	7665	7894
60°	7892	6868	7892	7231
65°	7144	5677	7144	6346
70°	4934	4524	4934	5319
75°	4311	3344	4311	4005
80°	3450	2211	3450	2407
85°	1944	1171	1944	995

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11781 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	2.4
10°-20°	552.1	6.9
20°-30°	853.5	10.7
30°-40°	1018.9	12.8
40°-50°	1024.9	12.8
50°-60°	891.8	11.2
60°-70°	632.3	7.9
70°-80°	334.5	4.2
80°-90°	84.7	1.1
90°-100°	180.3	2.3
100°-110°	474.0	5.9
110°-120°	491.5	6.2
120°-130°	394.3	4.9
130°-140°	309.4	3.9
140°-150°	237.4	3.0
150°-160°	171.0	2.1
160°-170°	104.6	1.3
170°-180°	35.3	0.4
0°-30°	1600.1	20.0
0°-40°	2619.0	32.8
0°-60°	4535.6	56.8
0°-90°	5587.1	70.0
90°-120°	1145.9	14.4
90°-150°	2087.0	26.1
90°-180°	2398.0	30.0
0°-180°	7985.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2154	2154	2154	2154	2154	
5°	2164	2232	2164	1755	2164	205
15°	2067	2211	2067	1846	2067	581
25°	1820	2063	1820	1806	1820	836
35°	1384	1840	1384	1571	1384	856
45°	893	1516	893	1331	893	715
55°	728	1119	728	1092	728	669
65°	506	675	506	754	506	483
75°	192	320	192	383	192	201
85°	33	82	33	69	33	44
90°	2	9	2	9	2	3
95°	24	109	24	109	24	26
105°	85	742	85	742	85	91
115°	152	956	152	956	152	150
125°	211	761	211	761	211	187
135°	252	591	252	591	252	195
145°	292	479	292	479	292	183
155°	330	413	330	413	330	151
165°	356	384	356	384	356	100
175°	370	372	370	372	370	35
180°	370	370	370	370	370	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2172.6	2172.6	2184.9	2188.9	2188.9	2182.8	2176.7	2182.8	2201.2	2207.3	2205.2
5°	2164.5	2180.8	2203.2	2207.3	2211.4	2209.3	2205.2	2209.3	2229.7	2233.8	2235.8
7.5°	2148.2	2178.7	2207.3	2213.4	2219.5	2213.4	2211.4	2215.4	2235.8	2239.9	2239.9
10°	2127.8	2170.6	2203.2	2207.3	2213.4	2207.3	2207.3	2215.4	2235.8	2239.9	2241.9
12.5°	2099.3	2158.4	2188.9	2193.0	2201.2	2199.1	2197.1	2205.2	2225.6	2229.7	2229.7
15°	2066.7	2135.9	2164.5	2168.6	2182.8	2178.7	2178.7	2186.9	2209.3	2215.4	2213.4
17.5°	2021.8	2107.4	2140.0	2146.1	2156.3	2154.3	2156.3	2164.5	2184.9	2188.9	2191.0
20°	1970.9	2068.7	2107.4	2113.5	2123.7	2123.7	2123.7	2133.9	2154.3	2162.4	2162.4
22.5°	1901.6	2027.9	2068.7	2072.8	2085.0	2085.0	2089.1	2103.3	2121.7	2123.7	2123.7
25°	1820.0	1983.1	2017.7	2030.0	2042.2	2048.3	2054.4	2062.6	2068.7	2066.7	2068.7
27.5°	1734.4	1926.0	1970.9	1979.0	1995.3	2001.4	2009.6	2011.6	2013.7	2019.8	2015.7
30°	1638.6	1846.5	1913.8	1921.9	1948.4	1952.5	1944.4	1948.4	1958.6	1962.7	1966.8
32.5°	1530.6	1728.3	1854.7	1873.0	1897.5	1885.3	1883.2	1889.3	1905.6	1905.6	1909.7
35°	1383.9	1636.6	1799.7	1816.0	1834.3	1820.0	1828.2	1830.2	1840.4	1846.5	1844.5
37.5°	1222.9	1557.1	1742.6	1754.8	1769.1	1750.7	1763.0	1769.1	1777.2	1773.2	1773.2
40°	1080.2	1432.8	1675.3	1683.5	1695.7	1681.4	1693.7	1697.8	1701.8	1697.8	1695.7
42.5°	974.2	1296.2	1604.0	1614.2	1606.0	1616.2	1620.3	1628.5	1622.3	1614.2	1614.2
45°	892.7	1259.6	1526.5	1538.8	1526.5	1542.9	1549.0	1549.0	1530.6	1526.5	1524.5
47.5°	866.2	1186.2	1449.1	1449.1	1443.0	1463.4	1473.6	1459.3	1440.9	1434.8	1434.8
50°	864.2	1104.7	1343.1	1335.0	1363.5	1388.0	1377.8	1363.5	1349.2	1326.8	1326.8
52.5°	784.7	1004.8	1206.6	1237.1	1282.0	1296.2	1279.9	1265.7	1241.2	1231.0	1222.9
55°	727.6	900.8	1082.2	1143.4	1190.3	1208.6	1178.0	1163.8	1127.1	1121.0	1116.9
57.5°	715.4	750.0	968.1	1045.6	1102.6	1100.6	1082.2	1055.7	1025.2	1019.1	1017.0
60°	656.3	542.1	845.8	937.5	996.6	990.5	974.2	949.8	921.2	917.2	913.1
62.5°	595.1	393.4	707.2	811.2	894.7	892.7	878.4	841.7	821.4	811.2	803.0
65°	505.5	330.2	503.4	674.6	794.9	798.9	768.4	741.9	719.5	707.2	705.2
67.5°	385.2	269.0	340.4	562.5	699.1	695.0	656.3	644.0	615.5	609.4	597.2
70°	285.3	179.4	236.4	456.5	605.3	595.1	564.6	550.3	523.8	509.5	501.4
72.5°	236.4	144.7	173.2	354.6	509.5	497.3	470.8	454.5	432.1	419.9	411.7
75°	191.6	152.9	132.5	262.9	413.7	405.6	381.1	364.8	346.5	330.2	332.2
77.5°	140.6	142.7	106.0	193.6	328.1	315.9	301.6	281.3	273.1	256.8	256.8
80°	106.0	112.1	79.5	132.5	236.4	236.4	224.2	209.9	195.7	187.5	187.5
82.5°	71.3	71.3	59.1	83.6	161.0	154.9	146.7	142.7	134.5	130.4	130.4
85°	32.6	40.8	36.7	51.0	87.6	91.7	91.7	87.6	85.6	81.5	83.6
87.5°	10.2	18.3	22.4	28.5	44.8	46.9	48.9	48.9	48.9	51.0	51.0
90°	2.5	4.5	6.5	7.0	10.9	16.2	18.9	16.8	12.5	9.4	9.4
92.5°	10.0	26.8	43.7	47.9	67.4	93.3	106.2	93.1	66.8	47.1	45.3
95°	23.8	54.7	85.6	93.3	165.7	262.3	310.6	277.2	210.3	160.1	154.4
97.5°	41.2	68.5	95.7	102.5	223.3	384.3	464.8	443.7	401.3	369.6	358.8
100°	54.6	79.3	104.1	110.3	244.2	422.9	512.2	513.7	516.8	519.1	506.3
102.5°	66.0	89.1	112.2	118.0	253.8	435.0	525.6	552.5	606.3	646.7	635.7
105°	85.4	105.0	124.5	129.4	260.9	436.4	524.0	584.4	705.1	795.7	789.8
107.5°	105.3	123.5	141.6	146.2	262.3	416.9	494.2	578.4	746.8	873.1	874.5
110°	118.7	135.1	151.5	155.6	260.3	399.7	469.4	563.5	751.8	893.0	899.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	131.9	147.5	163.2	167.1	260.3	384.7	446.9	543.2	735.9	880.3	889.8
115°	151.7	166.1	180.6	184.2	262.7	367.5	419.8	512.6	698.2	837.4	850.5
117.5°	171.3	184.4	197.5	200.8	267.6	356.7	401.2	484.9	652.4	778.0	792.6
120°	182.7	195.0	207.4	210.5	271.6	353.0	393.7	470.2	623.3	738.0	752.3
122.5°	193.9	206.4	218.8	221.9	277.3	351.1	388.0	456.9	594.8	698.1	712.1
125°	211.0	222.4	233.8	236.6	285.0	349.5	381.8	440.4	557.4	645.2	658.1
127.5°	224.9	236.4	247.9	250.8	292.7	348.7	376.6	426.9	527.3	602.7	613.6
130°	232.4	244.8	257.1	260.2	298.3	349.1	374.6	419.3	508.9	576.0	586.0
132.5°	240.1	252.5	264.8	267.9	302.9	349.5	372.9	413.0	493.0	553.1	562.1
135°	251.5	262.7	274.0	276.8	307.9	349.2	369.9	403.5	470.6	520.8	528.6
137.5°	263.1	274.3	285.4	288.2	315.3	351.3	369.4	397.7	454.4	497.0	503.3
140°	272.9	283.1	293.3	295.9	319.8	351.7	367.7	392.2	441.2	477.9	483.8
142.5°	280.2	289.7	299.2	301.6	323.6	353.0	367.7	389.2	432.2	464.5	469.6
145°	291.7	300.0	308.3	310.4	328.7	353.0	365.2	382.8	418.0	444.4	448.2
147.5°	303.1	311.2	319.3	321.3	335.9	355.4	365.2	379.0	406.7	427.5	430.7
150°	310.6	317.9	325.1	327.0	339.7	356.7	365.2	376.9	400.3	417.8	420.4
152.5°	318.2	323.8	329.3	330.7	342.2	357.5	365.2	375.2	395.2	410.1	412.0
155°	329.7	333.8	337.8	338.9	347.6	359.3	365.2	373.2	389.1	400.9	402.2
157.5°	338.1	342.1	346.1	347.1	353.1	361.2	365.2	371.4	383.8	393.0	393.9
160°	343.8	346.9	349.9	350.8	355.6	362.0	365.2	370.5	381.1	389.1	389.5
162.5°	349.5	351.9	354.2	354.8	358.2	362.9	365.2	369.7	378.6	385.3	385.8
165°	355.7	357.8	359.9	360.5	362.1	364.2	365.2	368.4	374.8	379.6	380.1
167.5°	361.4	362.4	363.4	363.7	365.0	366.8	367.7	369.8	374.0	377.1	377.3
170°	365.2	366.2	367.2	367.5	367.5	367.6	367.7	369.8	374.0	377.1	377.1
172.5°	367.2	367.5	367.6	367.7	367.7	367.7	367.7	369.3	372.6	375.1	374.9
175°	369.9	369.9	369.9	369.9	369.2	368.2	367.7	368.7	370.8	372.4	372.4
177.5°	369.9	369.9	369.9	369.9	369.4	368.6	368.2	369.0	370.7	371.9	371.6
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2209.3	2203.2	2209.3	2205.2	2207.3	2201.2	2182.8	2176.7	2182.8	2188.9	2188.9
5°	2235.8	2231.7	2235.8	2235.8	2233.8	2229.7	2209.3	2205.2	2209.3	2211.4	2207.3
7.5°	2244.0	2237.9	2244.0	2239.9	2239.9	2235.8	2215.4	2211.4	2213.4	2219.5	2213.4
10°	2244.0	2237.9	2244.0	2241.9	2239.9	2235.8	2215.4	2207.3	2207.3	2213.4	2207.3
12.5°	2233.8	2229.7	2233.8	2229.7	2229.7	2225.6	2205.2	2197.1	2199.1	2201.2	2193.0
15°	2217.5	2211.4	2217.5	2213.4	2215.4	2209.3	2186.9	2178.7	2178.7	2182.8	2168.6
17.5°	2193.0	2184.9	2193.0	2191.0	2188.9	2184.9	2164.5	2156.3	2154.3	2156.3	2146.1
20°	2164.5	2158.4	2164.5	2162.4	2162.4	2154.3	2133.9	2123.7	2123.7	2123.7	2113.5
22.5°	2119.6	2113.5	2119.6	2123.7	2123.7	2121.7	2103.3	2089.1	2085.0	2085.0	2072.8
25°	2068.7	2062.6	2068.7	2068.7	2066.7	2068.7	2062.6	2054.4	2048.3	2042.2	2030.0
27.5°	2019.8	2015.7	2019.8	2015.7	2019.8	2013.7	2011.6	2009.6	2001.4	1995.3	1979.0
30°	1970.9	1966.8	1970.9	1966.8	1962.7	1958.6	1948.4	1944.4	1952.5	1948.4	1921.9
32.5°	1909.7	1905.6	1909.7	1909.7	1905.6	1905.6	1889.3	1883.2	1885.3	1897.5	1873.0
35°	1846.5	1840.4	1846.5	1844.5	1846.5	1840.4	1830.2	1828.2	1820.0	1834.3	1816.0
37.5°	1773.2	1767.0	1773.2	1773.2	1773.2	1777.2	1769.1	1763.0	1750.7	1769.1	1754.8
40°	1697.8	1689.6	1697.8	1695.7	1697.8	1701.8	1697.8	1693.7	1681.4	1695.7	1683.5
42.5°	1612.2	1610.1	1612.2	1614.2	1614.2	1622.3	1628.5	1620.3	1616.2	1606.0	1614.2
45°	1520.4	1516.4	1520.4	1524.5	1526.5	1530.6	1549.0	1549.0	1542.9	1526.5	1538.8
47.5°	1422.6	1412.4	1422.6	1434.8	1434.8	1440.9	1459.3	1473.6	1463.4	1443.0	1449.1
50°	1318.7	1320.7	1318.7	1326.8	1326.8	1349.2	1363.5	1377.8	1388.0	1363.5	1335.0
52.5°	1216.8	1214.7	1216.8	1222.9	1231.0	1241.2	1265.7	1279.9	1296.2	1282.0	1237.1
55°	1114.8	1118.9	1114.8	1116.9	1121.0	1127.1	1163.8	1178.0	1208.6	1190.3	1143.4
57.5°	1012.9	1006.8	1012.9	1017.0	1019.1	1025.2	1055.7	1082.2	1100.6	1102.6	1045.6
60°	894.7	886.6	894.7	913.1	917.2	921.2	949.8	974.2	990.5	996.6	937.5
62.5°	790.8	776.5	790.8	803.0	811.2	821.4	841.7	878.4	892.7	894.7	811.2
65°	680.7	674.6	680.7	705.2	707.2	719.5	741.9	768.4	798.9	794.9	674.6
67.5°	580.9	580.9	580.9	597.2	609.4	615.5	644.0	656.3	695.0	699.1	562.5
70°	489.1	487.1	489.1	501.4	509.5	523.8	550.3	564.6	595.1	605.3	456.5
72.5°	401.5	399.5	401.5	411.7	419.9	432.1	454.5	470.8	497.3	509.5	354.6
75°	324.1	320.0	324.1	332.2	330.2	346.5	364.8	381.1	405.6	413.7	262.9
77.5°	248.7	248.7	248.7	256.8	256.8	273.1	281.3	301.6	315.9	328.1	193.6
80°	185.5	183.4	185.5	187.5	187.5	195.7	209.9	224.2	236.4	236.4	132.5
82.5°	130.4	126.4	130.4	130.4	130.4	134.5	142.7	146.7	154.9	161.0	83.6
85°	81.5	81.5	81.5	83.6	81.5	85.6	87.6	91.7	91.7	87.6	51.0
87.5°	53.0	51.0	53.0	51.0	51.0	48.9	48.9	48.9	46.9	44.8	28.5
90°	9.4	9.4	9.4	9.4	9.4	12.5	16.8	18.9	16.2	10.9	7.0
92.5°	37.7	30.3	37.7	45.3	47.1	66.8	93.1	106.2	93.3	67.4	47.9
95°	131.7	109.0	131.7	154.4	160.1	210.3	277.2	310.6	262.3	165.7	93.3
97.5°	315.6	272.4	315.6	358.8	369.6	401.3	443.7	464.8	384.3	223.3	102.5
100°	454.7	403.2	454.7	506.3	519.1	516.8	513.7	512.2	422.9	244.2	110.3
102.5°	591.6	547.4	591.6	635.7	646.7	606.3	552.5	525.6	435.0	253.8	118.0
105°	766.1	742.3	766.1	789.8	795.7	705.1	584.4	524.0	436.4	260.9	129.4
107.5°	880.2	886.0	880.2	874.5	873.1	746.8	578.4	494.2	416.9	262.3	146.2
110°	923.9	948.6	923.9	899.2	893.0	751.8	563.5	469.4	399.7	260.3	155.6



TEST NUMBER: P934551

CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	927.8	965.7	927.8	889.8	880.3	735.9	543.2	446.9	384.7	260.3	167.1
115°	903.1	955.8	903.1	850.5	837.4	698.2	512.6	419.8	367.5	262.7	184.2
117.5°	851.0	909.4	851.0	792.6	778.0	652.4	484.9	401.2	356.7	267.6	200.8
120°	808.9	865.7	808.9	752.3	738.0	623.3	470.2	393.7	353.0	271.6	210.5
122.5°	768.1	824.0	768.1	712.1	698.1	594.8	456.9	388.0	351.1	277.3	221.9
125°	709.6	761.2	709.6	658.1	645.2	557.4	440.4	381.8	349.5	285.0	236.6
127.5°	657.1	700.6	657.1	613.6	602.7	527.3	426.9	376.6	348.7	292.7	250.8
130°	626.2	666.3	626.2	586.0	576.0	508.9	419.3	374.6	349.1	298.3	260.2
132.5°	598.1	634.0	598.1	562.1	553.1	493.0	413.0	372.9	349.5	302.9	267.9
135°	559.6	590.6	559.6	528.6	520.8	470.6	403.5	369.9	349.2	307.9	276.8
137.5°	528.8	554.2	528.8	503.3	497.0	454.4	397.7	369.4	351.3	315.3	288.2
140°	507.5	531.3	507.5	483.8	477.9	441.2	392.2	367.7	351.7	319.8	295.9
142.5°	490.0	510.4	490.0	469.6	464.5	432.2	389.2	367.7	353.0	323.6	301.6
145°	463.7	479.2	463.7	448.2	444.4	418.0	382.8	365.2	353.0	328.7	310.4
147.5°	443.5	456.3	443.5	430.7	427.5	406.7	379.0	365.2	355.4	335.9	321.3
150°	430.8	441.2	430.8	420.4	417.8	400.3	376.9	365.2	356.7	339.7	327.0
152.5°	419.9	427.8	419.9	412.0	410.1	395.2	375.2	365.2	357.5	342.2	330.7
155°	407.4	412.6	407.4	402.2	400.9	389.1	373.2	365.2	359.3	347.6	338.9
157.5°	397.6	401.2	397.6	393.9	393.0	383.8	371.4	365.2	361.2	353.1	347.1
160°	391.6	393.7	391.6	389.5	389.1	381.1	370.5	365.2	362.0	355.6	350.8
162.5°	387.8	389.8	387.8	385.8	385.3	378.6	369.7	365.2	362.9	358.2	354.8
165°	382.2	384.3	382.2	380.1	379.6	374.8	368.4	365.2	364.2	362.1	360.5
167.5°	378.2	379.1	378.2	377.3	377.1	374.0	369.8	367.7	366.8	365.0	363.7
170°	377.1	377.1	377.1	377.1	377.1	374.0	369.8	367.7	367.6	367.5	367.5
172.5°	374.1	373.4	374.1	374.9	375.1	372.6	369.3	367.7	367.7	367.7	367.7
175°	372.4	372.4	372.4	372.4	372.4	370.8	368.7	367.7	368.2	369.2	369.9
177.5°	370.8	369.9	370.8	371.6	371.9	370.7	369.0	368.2	368.6	369.4	369.9
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934551

CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2184.9	2172.6	2172.6	2152.3	2144.1	2138.0	2127.8	2097.2	2089.1	2080.9	2093.1
5°	2203.2	2180.8	2164.5	2127.8	2097.2	2085.0	2046.3	1972.9	1924.0	1887.3	1866.9
7.5°	2207.3	2178.7	2148.2	2091.1	2017.7	1985.1	1866.9	1732.4	1695.7	1663.1	1642.7
10°	2203.2	2170.6	2127.8	2042.2	1869.0	1811.9	1693.7	1606.0	1583.6	1577.5	1583.6
12.5°	2188.9	2158.4	2099.3	1956.6	1714.1	1675.3	1606.0	1555.1	1551.0	1561.2	1616.2
15°	2164.5	2135.9	2066.7	1842.5	1628.5	1599.9	1551.0	1532.7	1555.1	1626.4	1791.5
17.5°	2140.0	2107.4	2021.8	1730.4	1563.2	1542.9	1508.2	1544.9	1671.3	1767.0	1822.1
20°	2107.4	2068.7	1970.9	1648.8	1516.4	1498.0	1481.7	1646.8	1742.6	1777.2	1807.8
22.5°	2068.7	2027.9	1901.6	1591.8	1467.4	1453.2	1463.4	1703.9	1742.6	1767.0	1793.5
25°	2017.7	1983.1	1820.0	1546.9	1428.7	1412.4	1451.1	1697.8	1720.2	1726.3	1779.3
27.5°	1970.9	1926.0	1734.4	1506.2	1381.8	1375.7	1461.3	1671.3	1687.6	1693.7	1750.7
30°	1913.8	1846.5	1638.6	1463.4	1332.9	1330.9	1463.4	1638.6	1634.6	1650.9	1707.9
32.5°	1854.7	1728.3	1530.6	1410.4	1286.1	1284.0	1449.1	1589.7	1585.7	1608.1	1650.9
35°	1799.7	1636.6	1383.9	1349.2	1226.9	1229.0	1414.5	1532.7	1534.7	1555.1	1581.6
37.5°	1742.6	1557.1	1222.9	1282.0	1169.9	1169.9	1367.6	1479.7	1475.6	1481.7	1518.4
40°	1675.3	1432.8	1080.2	1194.3	1116.9	1110.8	1310.5	1422.6	1408.3	1406.3	1457.3
42.5°	1604.0	1296.2	974.2	1078.2	1055.7	1047.6	1241.2	1353.3	1326.8	1332.9	1398.1
45°	1526.5	1259.6	892.7	911.0	992.6	986.4	1165.8	1273.8	1255.5	1271.8	1339.0
47.5°	1449.1	1186.2	866.2	756.1	925.3	923.3	1082.2	1196.4	1186.2	1202.5	1273.8
50°	1343.1	1104.7	864.2	648.1	849.9	858.0	982.4	1121.0	1121.0	1135.2	1210.6
52.5°	1206.6	1004.8	784.7	587.0	762.3	786.7	894.7	1055.7	1059.8	1074.1	1141.3
55°	1082.2	900.8	727.6	540.1	658.3	711.3	809.1	988.5	996.6	1010.9	1072.0
57.5°	968.1	750.0	715.4	485.1	562.5	613.5	733.7	923.3	927.3	939.6	998.7
60°	845.8	542.1	656.3	426.0	479.0	517.7	664.4	845.8	860.1	868.2	919.2
62.5°	707.2	393.4	595.1	385.2	438.2	446.3	607.4	772.4	790.8	796.9	827.5
65°	503.4	330.2	505.5	350.6	395.4	397.4	546.2	697.0	713.3	723.5	746.0
67.5°	340.4	269.0	385.2	317.9	362.8	364.8	487.1	609.4	631.8	640.0	654.2
70°	236.4	179.4	285.3	283.3	326.1	330.2	423.9	529.9	550.3	556.4	564.6
72.5°	173.2	144.7	236.4	254.8	287.4	291.5	358.7	440.2	460.6	466.7	470.8
75°	132.5	152.9	191.6	222.2	244.6	246.6	293.5	358.7	373.0	377.1	379.1
77.5°	106.0	142.7	140.6	179.4	199.7	195.7	230.3	277.2	289.4	289.4	289.4
80°	79.5	112.1	106.0	128.4	146.7	142.7	165.1	197.7	201.8	205.8	203.8
82.5°	59.1	71.3	71.3	81.5	97.8	93.8	110.1	128.4	128.4	128.4	132.5
85°	36.7	40.8	32.6	42.8	55.0	53.0	61.1	69.3	71.3	71.3	67.3
87.5°	22.4	18.3	10.2	16.3	24.5	24.5	28.5	30.6	28.5	28.5	28.5
90°	6.5	4.5	2.5	4.5	6.5	7.0	10.9	16.2	18.9	16.8	12.5
92.5°	43.7	26.8	10.0	26.8	43.7	47.9	67.4	93.3	106.2	93.1	66.8
95°	85.6	54.7	23.8	54.7	85.6	93.3	165.7	262.3	310.6	277.2	210.3
97.5°	95.7	68.5	41.2	68.5	95.7	102.5	223.3	384.3	464.8	443.7	401.3
100°	104.1	79.3	54.6	79.3	104.1	110.3	244.2	422.9	512.2	513.7	516.8
102.5°	112.2	89.1	66.0	89.1	112.2	118.0	253.8	435.0	525.6	552.5	606.3
105°	124.5	105.0	85.4	105.0	124.5	129.4	260.9	436.4	524.0	584.4	705.1
107.5°	141.6	123.5	105.3	123.5	141.6	146.2	262.3	416.9	494.2	578.4	746.8
110°	151.5	135.1	118.7	135.1	151.5	155.6	260.3	399.7	469.4	563.5	751.8



TEST NUMBER: P934551

CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	163.2	147.5	131.9	147.5	163.2	167.1	260.3	384.7	446.9	543.2	735.9
115°	180.6	166.1	151.7	166.1	180.6	184.2	262.7	367.5	419.8	512.6	698.2
117.5°	197.5	184.4	171.3	184.4	197.5	200.8	267.6	356.7	401.2	484.9	652.4
120°	207.4	195.0	182.7	195.0	207.4	210.5	271.6	353.0	393.7	470.2	623.3
122.5°	218.8	206.4	193.9	206.4	218.8	221.9	277.3	351.1	388.0	456.9	594.8
125°	233.8	222.4	211.0	222.4	233.8	236.6	285.0	349.5	381.8	440.4	557.4
127.5°	247.9	236.4	224.9	236.4	247.9	250.8	292.7	348.7	376.6	426.9	527.3
130°	257.1	244.8	232.4	244.8	257.1	260.2	298.3	349.1	374.6	419.3	508.9
132.5°	264.8	252.5	240.1	252.5	264.8	267.9	302.9	349.5	372.9	413.0	493.0
135°	274.0	262.7	251.5	262.7	274.0	276.8	307.9	349.2	369.9	403.5	470.6
137.5°	285.4	274.3	263.1	274.3	285.4	288.2	315.3	351.3	369.4	397.7	454.4
140°	293.3	283.1	272.9	283.1	293.3	295.9	319.8	351.7	367.7	392.2	441.2
142.5°	299.2	289.7	280.2	289.7	299.2	301.6	323.6	353.0	367.7	389.2	432.2
145°	308.3	300.0	291.7	300.0	308.3	310.4	328.7	353.0	365.2	382.8	418.0
147.5°	319.3	311.2	303.1	311.2	319.3	321.3	335.9	355.4	365.2	379.0	406.7
150°	325.1	317.9	310.6	317.9	325.1	327.0	339.7	356.7	365.2	376.9	400.3
152.5°	329.3	323.8	318.2	323.8	329.3	330.7	342.2	357.5	365.2	375.2	395.2
155°	337.8	333.8	329.7	333.8	337.8	338.9	347.6	359.3	365.2	373.2	389.1
157.5°	346.1	342.1	338.1	342.1	346.1	347.1	353.1	361.2	365.2	371.4	383.8
160°	349.9	346.9	343.8	346.9	349.9	350.8	355.6	362.0	365.2	370.5	381.1
162.5°	354.2	351.9	349.5	351.9	354.2	354.8	358.2	362.9	365.2	369.7	378.6
165°	359.9	357.8	355.7	357.8	359.9	360.5	362.1	364.2	365.2	368.4	374.8
167.5°	363.4	362.4	361.4	362.4	363.4	363.7	365.0	366.8	367.7	369.8	374.0
170°	367.2	366.2	365.2	366.2	367.2	367.5	367.5	367.6	367.7	369.8	374.0
172.5°	367.6	367.5	367.2	367.5	367.6	367.7	367.7	367.7	367.7	369.3	372.6
175°	369.9	369.9	369.9	369.9	369.9	369.9	369.2	368.2	367.7	368.7	370.8
177.5°	369.9	369.9	369.9	369.9	369.9	369.9	369.4	368.6	368.2	369.0	370.7
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934551
 CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2078.9	2072.8	2080.9	2058.5	2080.9	2072.8	2078.9	2093.1	2080.9	2089.1	2097.2
5°	1824.1	1813.9	1781.3	1754.8	1781.3	1813.9	1824.1	1866.9	1887.3	1924.0	1972.9
7.5°	1630.5	1622.3	1614.2	1597.9	1614.2	1622.3	1630.5	1642.7	1663.1	1695.7	1732.4
10°	1587.7	1589.7	1602.0	1599.9	1602.0	1589.7	1587.7	1583.6	1577.5	1583.6	1606.0
12.5°	1697.8	1716.1	1783.4	1779.3	1783.4	1716.1	1697.8	1616.2	1561.2	1551.0	1555.1
15°	1824.1	1830.2	1844.5	1846.5	1844.5	1830.2	1824.1	1791.5	1626.4	1555.1	1532.7
17.5°	1836.3	1838.4	1848.6	1848.6	1848.6	1838.4	1836.3	1822.1	1767.0	1671.3	1544.9
20°	1826.2	1830.2	1850.6	1854.7	1850.6	1830.2	1826.2	1807.8	1777.2	1742.6	1646.8
22.5°	1822.1	1830.2	1846.5	1844.5	1846.5	1830.2	1822.1	1793.5	1767.0	1742.6	1703.9
25°	1801.7	1801.7	1803.7	1805.8	1803.7	1801.7	1801.7	1779.3	1726.3	1720.2	1697.8
27.5°	1758.9	1763.0	1775.2	1773.2	1775.2	1763.0	1758.9	1750.7	1693.7	1687.6	1671.3
30°	1720.2	1716.1	1705.9	1697.8	1705.9	1716.1	1720.2	1707.9	1650.9	1634.6	1638.6
32.5°	1655.0	1644.8	1634.6	1628.5	1634.6	1644.8	1655.0	1650.9	1608.1	1585.7	1589.7
35°	1577.5	1579.5	1577.5	1571.4	1577.5	1579.5	1577.5	1581.6	1555.1	1534.7	1532.7
37.5°	1522.5	1526.5	1524.5	1516.4	1524.5	1526.5	1522.5	1518.4	1481.7	1475.6	1479.7
40°	1465.4	1467.4	1465.4	1459.3	1465.4	1467.4	1465.4	1457.3	1406.3	1408.3	1422.6
42.5°	1410.4	1408.3	1402.2	1398.1	1402.2	1408.3	1410.4	1398.1	1332.9	1326.8	1353.3
45°	1347.2	1349.2	1337.0	1330.9	1337.0	1349.2	1347.2	1339.0	1271.8	1255.5	1273.8
47.5°	1284.0	1284.0	1273.8	1267.7	1273.8	1284.0	1284.0	1273.8	1202.5	1186.2	1196.4
50°	1216.8	1214.7	1200.5	1198.4	1200.5	1214.7	1216.8	1210.6	1135.2	1121.0	1121.0
52.5°	1139.3	1139.3	1141.3	1145.4	1141.3	1139.3	1139.3	1141.3	1074.1	1059.8	1055.7
55°	1072.0	1074.1	1088.4	1092.4	1088.4	1074.1	1072.0	1072.0	1010.9	996.6	988.5
57.5°	1002.8	1002.8	1012.9	1012.9	1012.9	1002.8	1002.8	998.7	939.6	927.3	923.3
60°	923.3	927.3	935.5	933.5	935.5	927.3	923.3	919.2	868.2	860.1	845.8
62.5°	839.7	843.8	845.8	841.7	845.8	843.8	839.7	827.5	796.9	790.8	772.4
65°	752.1	756.1	758.2	754.1	758.2	756.1	752.1	746.0	723.5	713.3	697.0
67.5°	662.4	660.3	658.3	666.5	658.3	660.3	662.4	654.2	640.0	631.8	609.4
70°	570.7	570.7	568.6	572.7	568.6	570.7	570.7	564.6	556.4	550.3	529.9
72.5°	472.8	470.8	479.0	472.8	479.0	470.8	472.8	470.8	466.7	460.6	440.2
75°	377.1	381.1	377.1	383.2	377.1	381.1	377.1	379.1	377.1	373.0	358.7
77.5°	287.4	291.5	287.4	287.4	287.4	291.5	287.4	289.4	289.4	289.4	277.2
80°	203.8	201.8	201.8	199.7	201.8	201.8	203.8	203.8	205.8	201.8	197.7
82.5°	130.4	128.4	128.4	132.5	128.4	128.4	130.4	132.5	128.4	128.4	128.4
85°	71.3	73.4	69.3	69.3	69.3	73.4	71.3	67.3	71.3	71.3	69.3
87.5°	26.5	24.5	24.5	24.5	24.5	24.5	26.5	28.5	28.5	28.5	30.6
90°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.5	16.8	18.9	16.2
92.5°	47.1	45.3	37.7	30.3	37.7	45.3	47.1	66.8	93.1	106.2	93.3
95°	160.1	154.4	131.7	109.0	131.7	154.4	160.1	210.3	277.2	310.6	262.3
97.5°	369.6	358.8	315.6	272.4	315.6	358.8	369.6	401.3	443.7	464.8	384.3
100°	519.1	506.3	454.7	403.2	454.7	506.3	519.1	516.8	513.7	512.2	422.9
102.5°	646.7	635.7	591.6	547.4	591.6	635.7	646.7	606.3	552.5	525.6	435.0
105°	795.7	789.8	766.1	742.3	766.1	789.8	795.7	705.1	584.4	524.0	436.4
107.5°	873.1	874.5	880.2	886.0	880.2	874.5	873.1	746.8	578.4	494.2	416.9
110°	893.0	899.2	923.9	948.6	923.9	899.2	893.0	751.8	563.5	469.4	399.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	880.3	889.8	927.8	965.7	927.8	889.8	880.3	735.9	543.2	446.9	384.7
115°	837.4	850.5	903.1	955.8	903.1	850.5	837.4	698.2	512.6	419.8	367.5
117.5°	778.0	792.6	851.0	909.4	851.0	792.6	778.0	652.4	484.9	401.2	356.7
120°	738.0	752.3	808.9	865.7	808.9	752.3	738.0	623.3	470.2	393.7	353.0
122.5°	698.1	712.1	768.1	824.0	768.1	712.1	698.1	594.8	456.9	388.0	351.1
125°	645.2	658.1	709.6	761.2	709.6	658.1	645.2	557.4	440.4	381.8	349.5
127.5°	602.7	613.6	657.1	700.6	657.1	613.6	602.7	527.3	426.9	376.6	348.7
130°	576.0	586.0	626.2	666.3	626.2	586.0	576.0	508.9	419.3	374.6	349.1
132.5°	553.1	562.1	598.1	634.0	598.1	562.1	553.1	493.0	413.0	372.9	349.5
135°	520.8	528.6	559.6	590.6	559.6	528.6	520.8	470.6	403.5	369.9	349.2
137.5°	497.0	503.3	528.8	554.2	528.8	503.3	497.0	454.4	397.7	369.4	351.3
140°	477.9	483.8	507.5	531.3	507.5	483.8	477.9	441.2	392.2	367.7	351.7
142.5°	464.5	469.6	490.0	510.4	490.0	469.6	464.5	432.2	389.2	367.7	353.0
145°	444.4	448.2	463.7	479.2	463.7	448.2	444.4	418.0	382.8	365.2	353.0
147.5°	427.5	430.7	443.5	456.3	443.5	430.7	427.5	406.7	379.0	365.2	355.4
150°	417.8	420.4	430.8	441.2	430.8	420.4	417.8	400.3	376.9	365.2	356.7
152.5°	410.1	412.0	419.9	427.8	419.9	412.0	410.1	395.2	375.2	365.2	357.5
155°	400.9	402.2	407.4	412.6	407.4	402.2	400.9	389.1	373.2	365.2	359.3
157.5°	393.0	393.9	397.6	401.2	397.6	393.9	393.0	383.8	371.4	365.2	361.2
160°	389.1	389.5	391.6	393.7	391.6	389.5	389.1	381.1	370.5	365.2	362.0
162.5°	385.3	385.8	387.8	389.8	387.8	385.8	385.3	378.6	369.7	365.2	362.9
165°	379.6	380.1	382.2	384.3	382.2	380.1	379.6	374.8	368.4	365.2	364.2
167.5°	377.1	377.3	378.2	379.1	378.2	377.3	377.1	374.0	369.8	367.7	366.8
170°	377.1	377.1	377.1	377.1	377.1	377.1	377.1	374.0	369.8	367.7	367.6
172.5°	375.1	374.9	374.1	373.4	374.1	374.9	375.1	372.6	369.3	367.7	367.7
175°	372.4	372.4	372.4	372.4	372.4	372.4	372.4	370.8	368.7	367.7	368.2
177.5°	371.9	371.6	370.8	369.9	370.8	371.6	371.9	370.7	369.0	368.2	368.6
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2127.8	2138.0	2144.1	2152.3	2172.6
5°	2046.3	2085.0	2097.2	2127.8	2164.5
7.5°	1866.9	1985.1	2017.7	2091.1	2148.2
10°	1693.7	1811.9	1869.0	2042.2	2127.8
12.5°	1606.0	1675.3	1714.1	1956.6	2099.3
15°	1551.0	1599.9	1628.5	1842.5	2066.7
17.5°	1508.2	1542.9	1563.2	1730.4	2021.8
20°	1481.7	1498.0	1516.4	1648.8	1970.9
22.5°	1463.4	1453.2	1467.4	1591.8	1901.6
25°	1451.1	1412.4	1428.7	1546.9	1820.0
27.5°	1461.3	1375.7	1381.8	1506.2	1734.4
30°	1463.4	1330.9	1332.9	1463.4	1638.6
32.5°	1449.1	1284.0	1286.1	1410.4	1530.6
35°	1414.5	1229.0	1226.9	1349.2	1383.9
37.5°	1367.6	1169.9	1169.9	1282.0	1222.9
40°	1310.5	1110.8	1116.9	1194.3	1080.2
42.5°	1241.2	1047.6	1055.7	1078.2	974.2
45°	1165.8	986.4	992.6	911.0	892.7
47.5°	1082.2	923.3	925.3	756.1	866.2
50°	982.4	858.0	849.9	648.1	864.2
52.5°	894.7	786.7	762.3	587.0	784.7
55°	809.1	711.3	658.3	540.1	727.6
57.5°	733.7	613.5	562.5	485.1	715.4
60°	664.4	517.7	479.0	426.0	656.3
62.5°	607.4	446.3	438.2	385.2	595.1
65°	546.2	397.4	395.4	350.6	505.5
67.5°	487.1	364.8	362.8	317.9	385.2
70°	423.9	330.2	326.1	283.3	285.3
72.5°	358.7	291.5	287.4	254.8	236.4
75°	293.5	246.6	244.6	222.2	191.6
77.5°	230.3	195.7	199.7	179.4	140.6
80°	165.1	142.7	146.7	128.4	106.0
82.5°	110.1	93.8	97.8	81.5	71.3
85°	61.1	53.0	55.0	42.8	32.6
87.5°	28.5	24.5	24.5	16.3	10.2
90°	10.9	7.0	6.5	4.5	2.5
92.5°	67.4	47.9	43.7	26.8	10.0
95°	165.7	93.3	85.6	54.7	23.8
97.5°	223.3	102.5	95.7	68.5	41.2
100°	244.2	110.3	104.1	79.3	54.6
102.5°	253.8	118.0	112.2	89.1	66.0
105°	260.9	129.4	124.5	105.0	85.4
107.5°	262.3	146.2	141.6	123.5	105.3
110°	260.3	155.6	151.5	135.1	118.7



TEST NUMBER: P934551

CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	260.3	167.1	163.2	147.5	131.9
115°	262.7	184.2	180.6	166.1	151.7
117.5°	267.6	200.8	197.5	184.4	171.3
120°	271.6	210.5	207.4	195.0	182.7
122.5°	277.3	221.9	218.8	206.4	193.9
125°	285.0	236.6	233.8	222.4	211.0
127.5°	292.7	250.8	247.9	236.4	224.9
130°	298.3	260.2	257.1	244.8	232.4
132.5°	302.9	267.9	264.8	252.5	240.1
135°	307.9	276.8	274.0	262.7	251.5
137.5°	315.3	288.2	285.4	274.3	263.1
140°	319.8	295.9	293.3	283.1	272.9
142.5°	323.6	301.6	299.2	289.7	280.2
145°	328.7	310.4	308.3	300.0	291.7
147.5°	335.9	321.3	319.3	311.2	303.1
150°	339.7	327.0	325.1	317.9	310.6
152.5°	342.2	330.7	329.3	323.8	318.2
155°	347.6	338.9	337.8	333.8	329.7
157.5°	353.1	347.1	346.1	342.1	338.1
160°	355.6	350.8	349.9	346.9	343.8
162.5°	358.2	354.8	354.2	351.9	349.5
165°	362.1	360.5	359.9	357.8	355.7
167.5°	365.0	363.7	363.4	362.4	361.4
170°	367.5	367.5	367.2	366.2	365.2
172.5°	367.7	367.7	367.6	367.5	367.2
175°	369.2	369.9	369.9	369.9	369.9
177.5°	369.4	369.9	369.9	369.9	369.9
180°	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934551
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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	15.47	16.54	16.23	17.33	18.28	18.29	19.37	19.06	20.15	21.11
	3H	15.96	16.93	16.74	17.72	18.71	19.65	20.62	20.43	21.41	22.40
	4H	16.16	17.07	16.96	17.88	18.87	20.10	21.01	20.90	21.82	22.82
	6H	16.29	17.13	17.10	17.94	18.95	20.40	21.24	21.21	22.05	23.06
	8H	16.30	17.10	17.12	17.93	18.94	20.48	21.28	21.30	22.11	23.12
	12H	16.28	17.04	17.10	17.87	18.90	20.52	21.29	21.35	22.11	23.15
4H	2H	16.52	17.43	17.32	18.24	19.24	18.73	19.64	19.53	20.44	21.44
	3H	17.57	18.33	18.38	19.17	20.18	20.25	21.01	21.06	21.85	22.86
	4H	17.86	18.55	18.68	19.38	20.42	20.79	21.48	21.61	22.31	23.35
	6H	17.99	18.59	18.84	19.45	20.50	21.16	21.76	22.01	22.62	23.67
	8H	18.00	18.56	18.85	19.42	20.48	21.27	21.83	22.12	22.69	23.75
	12H	17.98	18.48	18.85	19.36	20.42	21.34	21.84	22.21	22.72	23.78
8H	4H	18.33	18.88	19.17	19.74	20.80	20.93	21.49	21.77	22.34	23.40
	6H	18.60	19.06	19.47	19.96	21.02	21.37	21.83	22.25	22.73	23.79
	8H	18.64	19.05	19.53	19.94	21.02	21.53	21.93	22.41	22.83	23.90
	12H	18.63	19.00	19.52	19.88	21.01	21.63	21.99	22.52	22.88	24.01
12H	4H	18.34	18.84	19.21	19.72	20.79	20.90	21.40	21.77	22.28	23.35
	6H	18.66	19.07	19.54	19.96	21.04	21.37	21.78	22.26	22.68	23.75
	8H	18.74	19.10	19.62	19.98	21.11	21.54	21.90	22.43	22.79	23.92