

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: P933916

Luminaire Tested: SQ4-FA-025U-075D-835-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933916
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

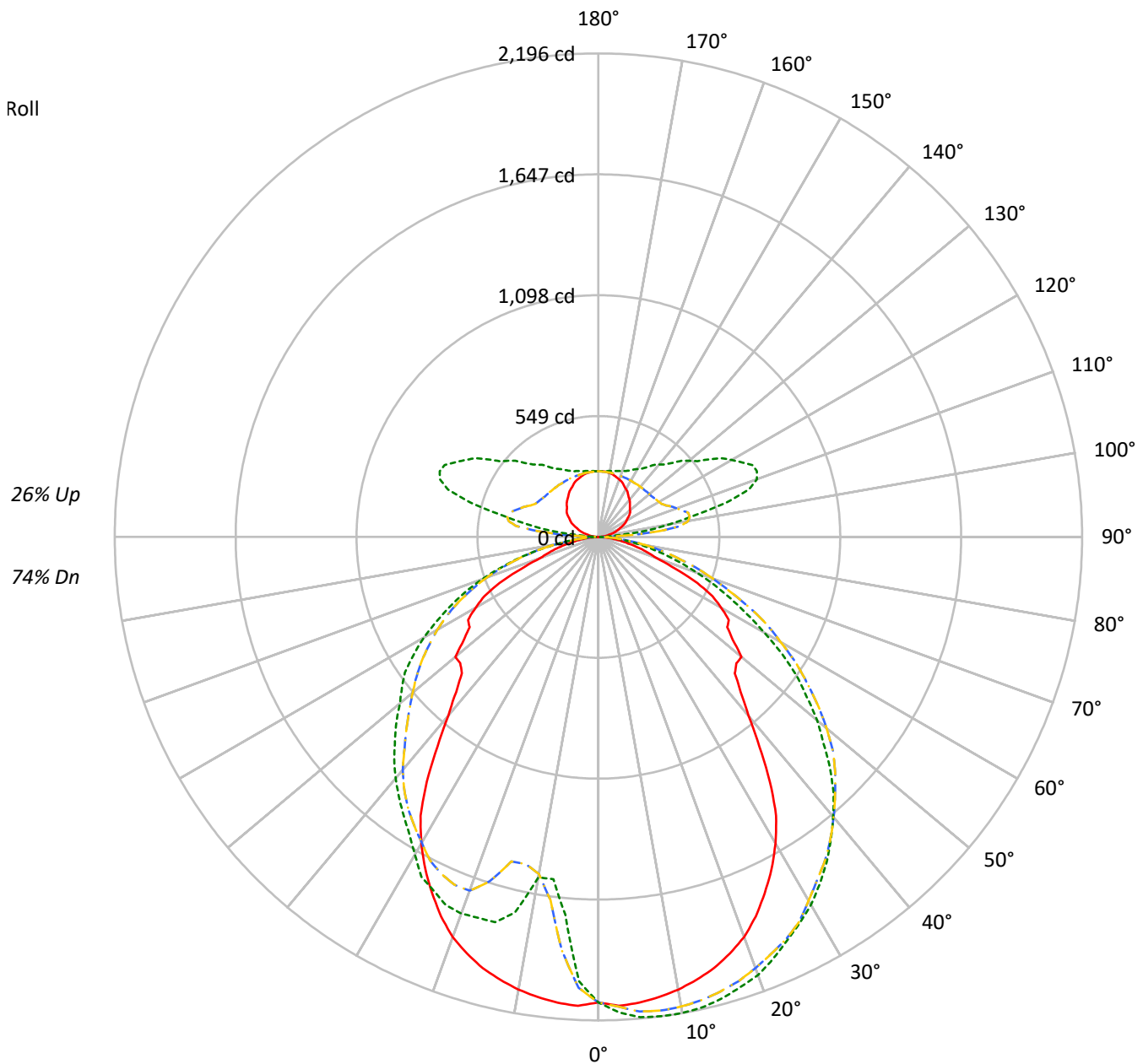
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7417.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9808	9808	9808	9808
5°	9881	9900	9881	7785
10°	9815	9752	9815	6972
15°	9708	9541	9708	7967
20°	9505	9291	9505	7984
25°	9089	8926	9089	7814
30°	8552	8623	8552	7443
35°	7624	8239	7624	7035
40°	6353	7788	6353	6726
45°	5677	7259	5677	6371
50°	6031	6629	6031	6016
55°	5674	5951	5674	5810
60°	5849	5054	5849	5321
65°	5303	4178	5303	4670
70°	3672	3330	3672	3915
75°	3220	2461	3220	2947
80°	2595	1627	2595	1772
85°	1491	862	1491	733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8700 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	2.6
10°-20°	541.8	7.3
20°-30°	837.5	11.3
30°-40°	999.8	13.5
40°-50°	1005.6	13.6
50°-60°	875.1	11.8
60°-70°	620.4	8.4
70°-80°	328.2	4.4
80°-90°	82.9	1.1
90°-100°	145.5	2.0
100°-110°	382.5	5.2
110°-120°	396.6	5.3
120°-130°	318.1	4.3
130°-140°	249.6	3.4
140°-150°	191.6	2.6
150°-160°	138.0	1.9
160°-170°	84.4	1.1
170°-180°	28.5	0.4
0°-30°	1570.1	21.2
0°-40°	2569.9	34.6
0°-60°	4450.6	60.0
0°-90°	5482.2	73.9
90°-120°	924.6	12.5
90°-150°	1684.0	22.7
90°-180°	1935.0	26.1
0°-180°	7417.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2114	2114	2114	2114	2114	
5°	2124	2190	2124	1722	2124	201
15°	2028	2170	2028	1812	2028	571
25°	1786	2024	1786	1772	1786	820
35°	1358	1806	1358	1542	1358	840
45°	876	1488	876	1306	876	702
55°	714	1098	714	1072	714	656
65°	496	662	496	740	496	474
75°	188	314	188	376	188	198
85°	32	80	32	68	32	43
90°	2	8	2	8	2	3
95°	19	88	19	88	19	21
105°	69	599	69	599	69	73
115°	122	771	122	771	122	121
125°	170	614	170	614	170	151
135°	203	476	203	476	203	157
145°	235	387	235	387	235	147
155°	266	333	266	333	266	122
165°	287	310	287	310	287	81
175°	298	300	298	300	298	28
180°	298	298	298	298	298	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2131.9	2131.9	2143.9	2147.9	2147.9	2141.9	2135.9	2141.9	2159.9	2165.9	2163.9
5°	2123.9	2139.9	2161.9	2165.9	2169.9	2167.9	2163.9	2167.9	2187.9	2191.9	2193.9
7.5°	2107.9	2137.9	2165.9	2171.9	2177.9	2171.9	2169.9	2173.9	2193.9	2197.9	2197.9
10°	2087.9	2129.9	2161.9	2165.9	2171.9	2165.9	2165.9	2173.9	2193.9	2197.9	2199.9
12.5°	2059.9	2117.9	2147.9	2151.9	2159.9	2157.9	2155.9	2163.9	2183.9	2187.9	2187.9
15°	2027.9	2095.9	2123.9	2127.9	2141.9	2137.9	2137.9	2145.9	2167.9	2173.9	2171.9
17.5°	1983.9	2067.9	2099.9	2105.9	2115.9	2113.9	2115.9	2123.9	2143.9	2147.9	2149.9
20°	1933.9	2029.9	2067.9	2073.9	2083.9	2083.9	2083.9	2093.9	2113.9	2121.9	2121.9
22.5°	1865.9	1989.9	2029.9	2033.9	2045.9	2045.9	2049.9	2063.9	2081.9	2083.9	2083.9
25°	1785.9	1945.9	1979.9	1991.9	2003.9	2009.9	2015.9	2023.9	2029.9	2027.9	2029.9
27.5°	1701.9	1889.9	1933.9	1941.9	1957.9	1963.9	1971.9	1973.9	1975.9	1981.9	1977.9
30°	1607.9	1811.9	1877.9	1885.9	1911.9	1915.9	1907.9	1911.9	1921.9	1925.9	1929.9
32.5°	1501.9	1695.9	1819.9	1837.9	1861.9	1849.9	1847.9	1853.9	1869.9	1869.9	1873.9
35°	1357.9	1605.9	1765.9	1781.9	1799.9	1785.9	1793.9	1795.9	1805.9	1811.9	1809.9
37.5°	1199.9	1527.9	1709.9	1721.9	1735.9	1717.9	1729.9	1735.9	1743.9	1739.9	1739.9
40°	1060.0	1405.9	1643.9	1651.9	1663.9	1649.9	1661.9	1665.9	1669.9	1665.9	1663.9
42.5°	956.0	1271.9	1573.9	1583.9	1575.9	1585.9	1589.9	1597.9	1591.9	1583.9	1583.9
45°	876.0	1235.9	1497.9	1509.9	1497.9	1513.9	1519.9	1519.9	1501.9	1497.9	1495.9
47.5°	850.0	1164.0	1421.9	1421.9	1415.9	1435.9	1445.9	1431.9	1413.9	1407.9	1407.9
50°	848.0	1084.0	1317.9	1309.9	1337.9	1361.9	1351.9	1337.9	1323.9	1301.9	1301.9
52.5°	770.0	986.0	1184.0	1213.9	1257.9	1271.9	1255.9	1241.9	1217.9	1207.9	1199.9
55°	714.0	884.0	1062.0	1122.0	1168.0	1186.0	1156.0	1142.0	1106.0	1100.0	1096.0
57.5°	702.0	736.0	950.0	1026.0	1082.0	1080.0	1062.0	1036.0	1006.0	1000.0	998.0
60°	644.0	532.0	830.0	920.0	978.0	972.0	956.0	932.0	904.0	900.0	896.0
62.5°	584.0	386.0	694.0	796.0	878.0	876.0	862.0	826.0	806.0	796.0	788.0
65°	496.0	324.0	494.0	662.0	780.0	784.0	754.0	728.0	706.0	694.0	692.0
67.5°	378.0	264.0	334.0	552.0	686.0	682.0	644.0	632.0	604.0	598.0	586.0
70°	280.0	176.0	232.0	448.0	594.0	584.0	554.0	540.0	514.0	500.0	492.0
72.5°	232.0	142.0	170.0	348.0	500.0	488.0	462.0	446.0	424.0	412.0	404.0
75°	188.0	150.0	130.0	258.0	406.0	398.0	374.0	358.0	340.0	324.0	326.0
77.5°	138.0	140.0	104.0	190.0	322.0	310.0	296.0	276.0	268.0	252.0	252.0
80°	104.0	110.0	78.0	130.0	232.0	232.0	220.0	206.0	192.0	184.0	184.0
82.5°	70.0	70.0	58.0	82.0	158.0	152.0	144.0	140.0	132.0	128.0	128.0
85°	32.0	40.0	36.0	50.0	86.0	90.0	90.0	86.0	84.0	80.0	82.0
87.5°	10.0	18.0	22.0	28.0	44.0	46.0	48.0	48.0	48.0	50.0	50.0
90°	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1	7.6	7.6
92.5°	8.0	21.6	35.3	38.7	54.4	75.3	85.7	75.1	54.0	38.1	36.6
95°	19.2	44.1	69.1	75.3	133.7	211.6	250.6	223.6	169.7	129.2	124.6
97.5°	33.3	55.3	77.2	82.7	180.1	310.0	375.0	358.0	323.9	298.3	289.6
100°	44.1	64.0	83.9	88.9	197.0	341.1	413.2	414.5	417.0	418.9	408.5
102.5°	53.3	71.9	90.5	95.1	204.8	351.0	424.1	445.8	489.2	521.8	512.9
105°	68.9	84.7	100.5	104.4	210.6	352.1	422.9	471.6	569.0	642.0	637.2
107.5°	84.9	99.6	114.3	118.0	211.6	336.4	398.8	466.7	602.6	704.5	705.7
110°	95.8	109.0	122.3	125.6	210.0	322.5	378.8	454.7	606.6	720.5	725.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	106.4	119.0	131.6	134.8	210.1	310.4	360.6	438.3	593.7	710.3	718.0
115°	122.4	134.0	145.7	148.6	212.0	296.5	338.7	413.6	563.4	675.7	686.3
117.5°	138.2	148.8	159.4	162.1	216.0	287.8	323.7	391.3	526.4	627.8	639.6
120°	147.4	157.4	167.4	169.9	219.2	284.9	317.7	379.4	502.9	595.5	606.9
122.5°	156.4	166.5	176.6	179.1	223.8	283.3	313.1	368.7	479.9	563.3	574.6
125°	170.3	179.5	188.6	190.9	230.0	282.1	308.1	355.3	449.8	520.6	531.0
127.5°	181.5	190.7	200.0	202.3	236.2	281.3	303.9	344.5	425.6	486.4	495.2
130°	187.5	197.5	207.4	209.9	240.7	281.8	302.3	338.4	410.6	464.7	472.8
132.5°	193.7	203.7	213.6	216.1	244.4	282.1	300.9	333.2	397.8	446.3	453.6
135°	202.9	212.0	221.1	223.4	248.4	281.8	298.5	325.6	379.7	420.3	426.5
137.5°	212.3	221.3	230.3	232.6	254.4	283.5	298.1	321.0	366.7	401.0	406.1
140°	220.1	228.4	236.7	238.8	258.1	283.8	296.7	316.5	356.0	385.6	390.4
142.5°	226.2	233.8	241.5	243.4	261.2	284.9	296.7	314.1	348.8	374.8	378.9
145°	235.4	242.1	248.7	250.4	265.2	284.9	294.7	308.9	337.3	358.6	361.7
147.5°	244.6	251.1	257.6	259.2	271.0	286.8	294.7	305.9	328.2	344.9	347.5
150°	250.6	256.5	262.3	263.8	274.1	287.8	294.7	304.1	323.0	337.1	339.2
152.5°	256.8	261.2	265.7	266.8	276.1	288.5	294.7	302.7	318.8	330.9	332.5
155°	266.0	269.3	272.6	273.4	280.5	290.0	294.7	301.1	313.9	323.5	324.5
157.5°	272.8	276.0	279.2	280.0	284.9	291.4	294.7	299.7	309.6	317.1	317.8
160°	277.4	279.9	282.4	283.0	286.9	292.1	294.7	299.0	307.5	313.9	314.3
162.5°	282.0	283.9	285.7	286.2	289.0	292.8	294.7	298.3	305.5	310.9	311.3
165°	287.1	288.8	290.5	290.9	292.2	293.9	294.7	297.3	302.4	306.3	306.7
167.5°	291.7	292.5	293.3	293.5	294.6	296.0	296.7	298.4	301.8	304.3	304.5
170°	294.7	295.5	296.3	296.5	296.6	296.7	296.7	298.4	301.8	304.3	304.3
172.5°	296.3	296.5	296.7	296.7	296.7	296.7	296.7	298.0	300.7	302.7	302.5
175°	298.5	298.5	298.5	298.5	297.9	297.1	296.7	297.5	299.2	300.5	300.5
177.5°	298.5	298.5	298.5	298.5	298.0	297.4	297.1	297.8	299.1	300.1	299.9
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2167.9	2161.9	2167.9	2163.9	2165.9	2159.9	2141.9	2135.9	2141.9	2147.9	2147.9
5°	2193.9	2189.9	2193.9	2193.9	2191.9	2187.9	2167.9	2163.9	2167.9	2169.9	2165.9
7.5°	2201.9	2195.9	2201.9	2197.9	2197.9	2193.9	2173.9	2169.9	2171.9	2177.9	2171.9
10°	2201.9	2195.9	2201.9	2199.9	2197.9	2193.9	2173.9	2165.9	2165.9	2171.9	2165.9
12.5°	2191.9	2187.9	2191.9	2187.9	2187.9	2183.9	2163.9	2155.9	2157.9	2159.9	2151.9
15°	2175.9	2169.9	2175.9	2171.9	2173.9	2167.9	2145.9	2137.9	2137.9	2141.9	2127.9
17.5°	2151.9	2143.9	2151.9	2149.9	2147.9	2143.9	2123.9	2115.9	2113.9	2115.9	2105.9
20°	2123.9	2117.9	2123.9	2121.9	2121.9	2113.9	2093.9	2083.9	2083.9	2083.9	2073.9
22.5°	2079.9	2073.9	2079.9	2083.9	2083.9	2081.9	2063.9	2049.9	2045.9	2045.9	2033.9
25°	2029.9	2023.9	2029.9	2029.9	2027.9	2029.9	2023.9	2015.9	2009.9	2003.9	1991.9
27.5°	1981.9	1977.9	1981.9	1977.9	1981.9	1975.9	1973.9	1971.9	1963.9	1957.9	1941.9
30°	1933.9	1929.9	1933.9	1929.9	1925.9	1921.9	1911.9	1907.9	1915.9	1911.9	1885.9
32.5°	1873.9	1869.9	1873.9	1873.9	1869.9	1869.9	1853.9	1847.9	1849.9	1861.9	1837.9
35°	1811.9	1805.9	1811.9	1809.9	1811.9	1805.9	1795.9	1793.9	1785.9	1799.9	1781.9
37.5°	1739.9	1733.9	1739.9	1739.9	1739.9	1743.9	1735.9	1729.9	1717.9	1735.9	1721.9
40°	1665.9	1657.9	1665.9	1663.9	1665.9	1669.9	1665.9	1661.9	1649.9	1663.9	1651.9
42.5°	1581.9	1579.9	1581.9	1583.9	1583.9	1591.9	1597.9	1589.9	1585.9	1575.9	1583.9
45°	1491.9	1487.9	1491.9	1495.9	1497.9	1501.9	1519.9	1519.9	1513.9	1497.9	1509.9
47.5°	1395.9	1385.9	1395.9	1407.9	1407.9	1413.9	1431.9	1445.9	1435.9	1415.9	1421.9
50°	1293.9	1295.9	1293.9	1301.9	1301.9	1323.9	1337.9	1351.9	1361.9	1337.9	1309.9
52.5°	1193.9	1192.0	1193.9	1199.9	1207.9	1217.9	1241.9	1255.9	1271.9	1257.9	1213.9
55°	1094.0	1098.0	1094.0	1096.0	1100.0	1106.0	1142.0	1156.0	1186.0	1168.0	1122.0
57.5°	994.0	988.0	994.0	998.0	1000.0	1006.0	1036.0	1062.0	1080.0	1082.0	1026.0
60°	878.0	870.0	878.0	896.0	900.0	904.0	932.0	956.0	972.0	978.0	920.0
62.5°	776.0	762.0	776.0	788.0	796.0	806.0	826.0	862.0	876.0	878.0	796.0
65°	668.0	662.0	668.0	692.0	694.0	706.0	728.0	754.0	784.0	780.0	662.0
67.5°	570.0	570.0	570.0	586.0	598.0	604.0	632.0	644.0	682.0	686.0	552.0
70°	480.0	478.0	480.0	492.0	500.0	514.0	540.0	554.0	584.0	594.0	448.0
72.5°	394.0	392.0	394.0	404.0	412.0	424.0	446.0	462.0	488.0	500.0	348.0
75°	318.0	314.0	318.0	326.0	324.0	340.0	358.0	374.0	398.0	406.0	258.0
77.5°	244.0	244.0	244.0	252.0	252.0	268.0	276.0	296.0	310.0	322.0	190.0
80°	182.0	180.0	182.0	184.0	184.0	192.0	206.0	220.0	232.0	232.0	130.0
82.5°	128.0	124.0	128.0	128.0	128.0	132.0	140.0	144.0	152.0	158.0	82.0
85°	80.0	80.0	80.0	82.0	80.0	84.0	86.0	90.0	90.0	86.0	50.0
87.5°	52.0	50.0	52.0	50.0	50.0	48.0	48.0	48.0	46.0	44.0	28.0
90°	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1	8.8	5.6
92.5°	30.5	24.4	30.5	36.6	38.1	54.0	75.1	85.7	75.3	54.4	38.7
95°	106.3	87.9	106.3	124.6	129.2	169.7	223.6	250.6	211.6	133.7	75.3
97.5°	254.6	219.7	254.6	289.6	298.3	323.9	358.0	375.0	310.0	180.1	82.7
100°	366.9	325.3	366.9	408.5	418.9	417.0	414.5	413.2	341.1	197.0	88.9
102.5°	477.3	441.7	477.3	512.9	521.8	489.2	445.8	424.1	351.0	204.8	95.1
105°	618.1	598.9	618.1	637.2	642.0	569.0	471.6	422.9	352.1	210.6	104.4
107.5°	710.3	714.9	710.3	705.7	704.5	602.6	466.7	398.8	336.4	211.6	118.0
110°	745.4	765.4	745.4	725.5	720.5	606.6	454.7	378.8	322.5	210.0	125.6



TEST NUMBER: P933916

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	748.6	779.2	748.6	718.0	710.3	593.7	438.3	360.6	310.4	210.1	134.8
115°	728.8	771.2	728.8	686.3	675.7	563.4	413.6	338.7	296.5	212.0	148.6
117.5°	686.7	733.8	686.7	639.6	627.8	526.4	391.3	323.7	287.8	216.0	162.1
120°	652.7	698.5	652.7	606.9	595.5	502.9	379.4	317.7	284.9	219.2	169.9
122.5°	619.7	664.8	619.7	574.6	563.3	479.9	368.7	313.1	283.3	223.8	179.1
125°	572.6	614.2	572.6	531.0	520.6	449.8	355.3	308.1	282.1	230.0	190.9
127.5°	530.2	565.3	530.2	495.2	486.4	425.6	344.5	303.9	281.3	236.2	202.3
130°	505.2	537.6	505.2	472.8	464.7	410.6	338.4	302.3	281.8	240.7	209.9
132.5°	482.6	511.6	482.6	453.6	446.3	397.8	333.2	300.9	282.1	244.4	216.1
135°	451.5	476.5	451.5	426.5	420.3	379.7	325.6	298.5	281.8	248.4	223.4
137.5°	426.6	447.1	426.6	406.1	401.0	366.7	321.0	298.1	283.5	254.4	232.6
140°	409.5	428.7	409.5	390.4	385.6	356.0	316.5	296.7	283.8	258.1	238.8
142.5°	395.4	411.8	395.4	378.9	374.8	348.8	314.1	296.7	284.9	261.2	243.4
145°	374.2	386.6	374.2	361.7	358.6	337.3	308.9	294.7	284.9	265.2	250.4
147.5°	357.8	368.2	357.8	347.5	344.9	328.2	305.9	294.7	286.8	271.0	259.2
150°	347.6	356.0	347.6	339.2	337.1	323.0	304.1	294.7	287.8	274.1	263.8
152.5°	338.8	345.1	338.8	332.5	330.9	318.8	302.7	294.7	288.5	276.1	266.8
155°	328.7	332.9	328.7	324.5	323.5	313.9	301.1	294.7	290.0	280.5	273.4
157.5°	320.8	323.7	320.8	317.8	317.1	309.6	299.7	294.7	291.4	284.9	280.0
160°	316.0	317.7	316.0	314.3	313.9	307.5	299.0	294.7	292.1	286.9	283.0
162.5°	312.9	314.5	312.9	311.3	310.9	305.5	298.3	294.7	292.8	289.0	286.2
165°	308.4	310.1	308.4	306.7	306.3	302.4	297.3	294.7	293.9	292.2	290.9
167.5°	305.2	305.9	305.2	304.5	304.3	301.8	298.4	296.7	296.0	294.6	293.5
170°	304.3	304.3	304.3	304.3	304.3	301.8	298.4	296.7	296.7	296.6	296.5
172.5°	301.9	301.3	301.9	302.5	302.7	300.7	298.0	296.7	296.7	296.7	296.7
175°	300.5	300.5	300.5	300.5	300.5	299.2	297.5	296.7	297.1	297.9	298.5
177.5°	299.2	298.5	299.2	299.9	300.1	299.1	297.8	297.1	297.4	298.0	298.5
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



TEST NUMBER: P933916

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2143.9	2131.9	2131.9	2111.9	2103.9	2097.9	2087.9	2057.9	2049.9	2041.9	2053.9
5°	2161.9	2139.9	2123.9	2087.9	2057.9	2045.9	2007.9	1935.9	1887.9	1851.9	1831.9
7.5°	2165.9	2137.9	2107.9	2051.9	1979.9	1947.9	1831.9	1699.9	1663.9	1631.9	1611.9
10°	2161.9	2129.9	2087.9	2003.9	1833.9	1777.9	1661.9	1575.9	1553.9	1547.9	1553.9
12.5°	2147.9	2117.9	2059.9	1919.9	1681.9	1643.9	1575.9	1525.9	1521.9	1531.9	1585.9
15°	2123.9	2095.9	2027.9	1807.9	1597.9	1569.9	1521.9	1503.9	1525.9	1595.9	1757.9
17.5°	2099.9	2067.9	1983.9	1697.9	1533.9	1513.9	1479.9	1515.9	1639.9	1733.9	1787.9
20°	2067.9	2029.9	1933.9	1617.9	1487.9	1469.9	1453.9	1615.9	1709.9	1743.9	1773.9
22.5°	2029.9	1989.9	1865.9	1561.9	1439.9	1425.9	1435.9	1671.9	1709.9	1733.9	1759.9
25°	1979.9	1945.9	1785.9	1517.9	1401.9	1385.9	1423.9	1665.9	1687.9	1693.9	1745.9
27.5°	1933.9	1889.9	1701.9	1477.9	1355.9	1349.9	1433.9	1639.9	1655.9	1661.9	1717.9
30°	1877.9	1811.9	1607.9	1435.9	1307.9	1305.9	1435.9	1607.9	1603.9	1619.9	1675.9
32.5°	1819.9	1695.9	1501.9	1383.9	1261.9	1259.9	1421.9	1559.9	1555.9	1577.9	1619.9
35°	1765.9	1605.9	1357.9	1323.9	1203.9	1205.9	1387.9	1503.9	1505.9	1525.9	1551.9
37.5°	1709.9	1527.9	1199.9	1257.9	1148.0	1148.0	1341.9	1451.9	1447.9	1453.9	1489.9
40°	1643.9	1405.9	1060.0	1172.0	1096.0	1090.0	1285.9	1395.9	1381.9	1379.9	1429.9
42.5°	1573.9	1271.9	956.0	1058.0	1036.0	1028.0	1217.9	1327.9	1301.9	1307.9	1371.9
45°	1497.9	1235.9	876.0	894.0	974.0	968.0	1144.0	1249.9	1231.9	1247.9	1313.9
47.5°	1421.9	1164.0	850.0	742.0	908.0	906.0	1062.0	1174.0	1164.0	1180.0	1249.9
50°	1317.9	1084.0	848.0	636.0	834.0	842.0	964.0	1100.0	1100.0	1114.0	1188.0
52.5°	1184.0	986.0	770.0	576.0	748.0	772.0	878.0	1036.0	1040.0	1054.0	1120.0
55°	1062.0	884.0	714.0	530.0	646.0	698.0	794.0	970.0	978.0	992.0	1052.0
57.5°	950.0	736.0	702.0	476.0	552.0	602.0	720.0	906.0	910.0	922.0	980.0
60°	830.0	532.0	644.0	418.0	470.0	508.0	652.0	830.0	844.0	852.0	902.0
62.5°	694.0	386.0	584.0	378.0	430.0	438.0	596.0	758.0	776.0	782.0	812.0
65°	494.0	324.0	496.0	344.0	388.0	390.0	536.0	684.0	700.0	710.0	732.0
67.5°	334.0	264.0	378.0	312.0	356.0	358.0	478.0	598.0	620.0	628.0	642.0
70°	232.0	176.0	280.0	278.0	320.0	324.0	416.0	520.0	540.0	546.0	554.0
72.5°	170.0	142.0	232.0	250.0	282.0	286.0	352.0	432.0	452.0	458.0	462.0
75°	130.0	150.0	188.0	218.0	240.0	242.0	288.0	352.0	366.0	370.0	372.0
77.5°	104.0	140.0	138.0	176.0	196.0	192.0	226.0	272.0	284.0	284.0	284.0
80°	78.0	110.0	104.0	126.0	144.0	140.0	162.0	194.0	198.0	202.0	200.0
82.5°	58.0	70.0	70.0	80.0	96.0	92.0	108.0	126.0	126.0	126.0	130.0
85°	36.0	40.0	32.0	42.0	54.0	52.0	60.0	68.0	70.0	70.0	66.0
87.5°	22.0	18.0	10.0	16.0	24.0	24.0	28.0	30.0	28.0	28.0	28.0
90°	5.2	3.6	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1
92.5°	35.3	21.6	8.0	21.6	35.3	38.7	54.4	75.3	85.7	75.1	54.0
95°	69.1	44.1	19.2	44.1	69.1	75.3	133.7	211.6	250.6	223.6	169.7
97.5°	77.2	55.3	33.3	55.3	77.2	82.7	180.1	310.0	375.0	358.0	323.9
100°	83.9	64.0	44.1	64.0	83.9	88.9	197.0	341.1	413.2	414.5	417.0
102.5°	90.5	71.9	53.3	71.9	90.5	95.1	204.8	351.0	424.1	445.8	489.2
105°	100.5	84.7	68.9	84.7	100.5	104.4	210.6	352.1	422.9	471.6	569.0
107.5°	114.3	99.6	84.9	99.6	114.3	118.0	211.6	336.4	398.8	466.7	602.6
110°	122.3	109.0	95.8	109.0	122.3	125.6	210.0	322.5	378.8	454.7	606.6



TEST NUMBER: P933916

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	131.6	119.0	106.4	119.0	131.6	134.8	210.1	310.4	360.6	438.3	593.7
115°	145.7	134.0	122.4	134.0	145.7	148.6	212.0	296.5	338.7	413.6	563.4
117.5°	159.4	148.8	138.2	148.8	159.4	162.1	216.0	287.8	323.7	391.3	526.4
120°	167.4	157.4	147.4	157.4	167.4	169.9	219.2	284.9	317.7	379.4	502.9
122.5°	176.6	166.5	156.4	166.5	176.6	179.1	223.8	283.3	313.1	368.7	479.9
125°	188.6	179.5	170.3	179.5	188.6	190.9	230.0	282.1	308.1	355.3	449.8
127.5°	200.0	190.7	181.5	190.7	200.0	202.3	236.2	281.3	303.9	344.5	425.6
130°	207.4	197.5	187.5	197.5	207.4	209.9	240.7	281.8	302.3	338.4	410.6
132.5°	213.6	203.7	193.7	203.7	213.6	216.1	244.4	282.1	300.9	333.2	397.8
135°	221.1	212.0	202.9	212.0	221.1	223.4	248.4	281.8	298.5	325.6	379.7
137.5°	230.3	221.3	212.3	221.3	230.3	232.6	254.4	283.5	298.1	321.0	366.7
140°	236.7	228.4	220.1	228.4	236.7	238.8	258.1	283.8	296.7	316.5	356.0
142.5°	241.5	233.8	226.2	233.8	241.5	243.4	261.2	284.9	296.7	314.1	348.8
145°	248.7	242.1	235.4	242.1	248.7	250.4	265.2	284.9	294.7	308.9	337.3
147.5°	257.6	251.1	244.6	251.1	257.6	259.2	271.0	286.8	294.7	305.9	328.2
150°	262.3	256.5	250.6	256.5	262.3	263.8	274.1	287.8	294.7	304.1	323.0
152.5°	265.7	261.2	256.8	261.2	265.7	266.8	276.1	288.5	294.7	302.7	318.8
155°	272.6	269.3	266.0	269.3	272.6	273.4	280.5	290.0	294.7	301.1	313.9
157.5°	279.2	276.0	272.8	276.0	279.2	280.0	284.9	291.4	294.7	299.7	309.6
160°	282.4	279.9	277.4	279.9	282.4	283.0	286.9	292.1	294.7	299.0	307.5
162.5°	285.7	283.9	282.0	283.9	285.7	286.2	289.0	292.8	294.7	298.3	305.5
165°	290.5	288.8	287.1	288.8	290.5	290.9	292.2	293.9	294.7	297.3	302.4
167.5°	293.3	292.5	291.7	292.5	293.3	293.5	294.6	296.0	296.7	298.4	301.8
170°	296.3	295.5	294.7	295.5	296.3	296.5	296.6	296.7	296.7	298.4	301.8
172.5°	296.7	296.5	296.3	296.5	296.7	296.7	296.7	296.7	296.7	298.0	300.7
175°	298.5	298.5	298.5	298.5	298.5	298.5	297.9	297.1	296.7	297.5	299.2
177.5°	298.5	298.5	298.5	298.5	298.5	298.5	298.0	297.4	297.1	297.8	299.1
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



TEST NUMBER: P933916
 CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2039.9	2033.9	2041.9	2019.9	2041.9	2033.9	2039.9	2053.9	2041.9	2049.9	2057.9
5°	1789.9	1779.9	1747.9	1721.9	1747.9	1779.9	1789.9	1831.9	1851.9	1887.9	1935.9
7.5°	1599.9	1591.9	1583.9	1567.9	1583.9	1591.9	1599.9	1611.9	1631.9	1663.9	1699.9
10°	1557.9	1559.9	1571.9	1569.9	1571.9	1559.9	1557.9	1553.9	1547.9	1553.9	1575.9
12.5°	1665.9	1683.9	1749.9	1745.9	1749.9	1683.9	1665.9	1585.9	1531.9	1521.9	1525.9
15°	1789.9	1795.9	1809.9	1811.9	1809.9	1795.9	1789.9	1757.9	1595.9	1525.9	1503.9
17.5°	1801.9	1803.9	1813.9	1813.9	1813.9	1803.9	1801.9	1787.9	1733.9	1639.9	1515.9
20°	1791.9	1795.9	1815.9	1819.9	1815.9	1795.9	1791.9	1773.9	1743.9	1709.9	1615.9
22.5°	1787.9	1795.9	1811.9	1809.9	1811.9	1795.9	1787.9	1759.9	1733.9	1709.9	1671.9
25°	1767.9	1767.9	1769.9	1771.9	1769.9	1767.9	1767.9	1745.9	1693.9	1687.9	1665.9
27.5°	1725.9	1729.9	1741.9	1739.9	1741.9	1729.9	1725.9	1717.9	1661.9	1655.9	1639.9
30°	1687.9	1683.9	1673.9	1665.9	1673.9	1683.9	1687.9	1675.9	1619.9	1603.9	1607.9
32.5°	1623.9	1613.9	1603.9	1597.9	1603.9	1613.9	1623.9	1619.9	1577.9	1555.9	1559.9
35°	1547.9	1549.9	1547.9	1541.9	1547.9	1549.9	1547.9	1551.9	1525.9	1505.9	1503.9
37.5°	1493.9	1497.9	1495.9	1487.9	1495.9	1497.9	1493.9	1489.9	1453.9	1447.9	1451.9
40°	1437.9	1439.9	1437.9	1431.9	1437.9	1439.9	1437.9	1429.9	1379.9	1381.9	1395.9
42.5°	1383.9	1381.9	1375.9	1371.9	1375.9	1381.9	1383.9	1371.9	1307.9	1301.9	1327.9
45°	1321.9	1323.9	1311.9	1305.9	1311.9	1323.9	1321.9	1313.9	1247.9	1231.9	1249.9
47.5°	1259.9	1259.9	1249.9	1243.9	1249.9	1259.9	1259.9	1249.9	1180.0	1164.0	1174.0
50°	1193.9	1192.0	1178.0	1176.0	1178.0	1192.0	1193.9	1188.0	1114.0	1100.0	1100.0
52.5°	1118.0	1118.0	1120.0	1124.0	1120.0	1118.0	1118.0	1120.0	1054.0	1040.0	1036.0
55°	1052.0	1054.0	1068.0	1072.0	1068.0	1054.0	1052.0	1052.0	992.0	978.0	970.0
57.5°	984.0	984.0	994.0	994.0	994.0	984.0	984.0	980.0	922.0	910.0	906.0
60°	906.0	910.0	918.0	916.0	918.0	910.0	906.0	902.0	852.0	844.0	830.0
62.5°	824.0	828.0	830.0	826.0	830.0	828.0	824.0	812.0	782.0	776.0	758.0
65°	738.0	742.0	744.0	740.0	744.0	742.0	738.0	732.0	710.0	700.0	684.0
67.5°	650.0	648.0	646.0	654.0	646.0	648.0	650.0	642.0	628.0	620.0	598.0
70°	560.0	560.0	558.0	562.0	558.0	560.0	560.0	554.0	546.0	540.0	520.0
72.5°	464.0	462.0	470.0	464.0	470.0	462.0	464.0	462.0	458.0	452.0	432.0
75°	370.0	374.0	370.0	376.0	370.0	374.0	370.0	372.0	370.0	366.0	352.0
77.5°	282.0	286.0	282.0	282.0	282.0	286.0	282.0	284.0	284.0	284.0	272.0
80°	200.0	198.0	198.0	196.0	198.0	198.0	200.0	200.0	202.0	198.0	194.0
82.5°	128.0	126.0	126.0	130.0	126.0	126.0	128.0	130.0	126.0	126.0	126.0
85°	70.0	72.0	68.0	68.0	68.0	72.0	70.0	66.0	70.0	70.0	68.0
87.5°	26.0	24.0	24.0	24.0	24.0	24.0	26.0	28.0	28.0	28.0	30.0
90°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1
92.5°	38.1	36.6	30.5	24.4	30.5	36.6	38.1	54.0	75.1	85.7	75.3
95°	129.2	124.6	106.3	87.9	106.3	124.6	129.2	169.7	223.6	250.6	211.6
97.5°	298.3	289.6	254.6	219.7	254.6	289.6	298.3	323.9	358.0	375.0	310.0
100°	418.9	408.5	366.9	325.3	366.9	408.5	418.9	417.0	414.5	413.2	341.1
102.5°	521.8	512.9	477.3	441.7	477.3	512.9	521.8	489.2	445.8	424.1	351.0
105°	642.0	637.2	618.1	598.9	618.1	637.2	642.0	569.0	471.6	422.9	352.1
107.5°	704.5	705.7	710.3	714.9	710.3	705.7	704.5	602.6	466.7	398.8	336.4
110°	720.5	725.5	745.4	765.4	745.4	725.5	720.5	606.6	454.7	378.8	322.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	710.3	718.0	748.6	779.2	748.6	718.0	710.3	593.7	438.3	360.6	310.4
115°	675.7	686.3	728.8	771.2	728.8	686.3	675.7	563.4	413.6	338.7	296.5
117.5°	627.8	639.6	686.7	733.8	686.7	639.6	627.8	526.4	391.3	323.7	287.8
120°	595.5	606.9	652.7	698.5	652.7	606.9	595.5	502.9	379.4	317.7	284.9
122.5°	563.3	574.6	619.7	664.8	619.7	574.6	563.3	479.9	368.7	313.1	283.3
125°	520.6	531.0	572.6	614.2	572.6	531.0	520.6	449.8	355.3	308.1	282.1
127.5°	486.4	495.2	530.2	565.3	530.2	495.2	486.4	425.6	344.5	303.9	281.3
130°	464.7	472.8	505.2	537.6	505.2	472.8	464.7	410.6	338.4	302.3	281.8
132.5°	446.3	453.6	482.6	511.6	482.6	453.6	446.3	397.8	333.2	300.9	282.1
135°	420.3	426.5	451.5	476.5	451.5	426.5	420.3	379.7	325.6	298.5	281.8
137.5°	401.0	406.1	426.6	447.1	426.6	406.1	401.0	366.7	321.0	298.1	283.5
140°	385.6	390.4	409.5	428.7	409.5	390.4	385.6	356.0	316.5	296.7	283.8
142.5°	374.8	378.9	395.4	411.8	395.4	378.9	374.8	348.8	314.1	296.7	284.9
145°	358.6	361.7	374.2	386.6	374.2	361.7	358.6	337.3	308.9	294.7	284.9
147.5°	344.9	347.5	357.8	368.2	357.8	347.5	344.9	328.2	305.9	294.7	286.8
150°	337.1	339.2	347.6	356.0	347.6	339.2	337.1	323.0	304.1	294.7	287.8
152.5°	330.9	332.5	338.8	345.1	338.8	332.5	330.9	318.8	302.7	294.7	288.5
155°	323.5	324.5	328.7	332.9	328.7	324.5	323.5	313.9	301.1	294.7	290.0
157.5°	317.1	317.8	320.8	323.7	320.8	317.8	317.1	309.6	299.7	294.7	291.4
160°	313.9	314.3	316.0	317.7	316.0	314.3	313.9	307.5	299.0	294.7	292.1
162.5°	310.9	311.3	312.9	314.5	312.9	311.3	310.9	305.5	298.3	294.7	292.8
165°	306.3	306.7	308.4	310.1	308.4	306.7	306.3	302.4	297.3	294.7	293.9
167.5°	304.3	304.5	305.2	305.9	305.2	304.5	304.3	301.8	298.4	296.7	296.0
170°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	301.8	298.4	296.7	296.7
172.5°	302.7	302.5	301.9	301.3	301.9	302.5	302.7	300.7	298.0	296.7	296.7
175°	300.5	300.5	300.5	300.5	300.5	300.5	300.5	299.2	297.5	296.7	297.1
177.5°	300.1	299.9	299.2	298.5	299.2	299.9	300.1	299.1	297.8	297.1	297.4
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2087.9	2097.9	2103.9	2111.9	2131.9
5°	2007.9	2045.9	2057.9	2087.9	2123.9
7.5°	1831.9	1947.9	1979.9	2051.9	2107.9
10°	1661.9	1777.9	1833.9	2003.9	2087.9
12.5°	1575.9	1643.9	1681.9	1919.9	2059.9
15°	1521.9	1569.9	1597.9	1807.9	2027.9
17.5°	1479.9	1513.9	1533.9	1697.9	1983.9
20°	1453.9	1469.9	1487.9	1617.9	1933.9
22.5°	1435.9	1425.9	1439.9	1561.9	1865.9
25°	1423.9	1385.9	1401.9	1517.9	1785.9
27.5°	1433.9	1349.9	1355.9	1477.9	1701.9
30°	1435.9	1305.9	1307.9	1435.9	1607.9
32.5°	1421.9	1259.9	1261.9	1383.9	1501.9
35°	1387.9	1205.9	1203.9	1323.9	1357.9
37.5°	1341.9	1148.0	1148.0	1257.9	1199.9
40°	1285.9	1090.0	1096.0	1172.0	1060.0
42.5°	1217.9	1028.0	1036.0	1058.0	956.0
45°	1144.0	968.0	974.0	894.0	876.0
47.5°	1062.0	906.0	908.0	742.0	850.0
50°	964.0	842.0	834.0	636.0	848.0
52.5°	878.0	772.0	748.0	576.0	770.0
55°	794.0	698.0	646.0	530.0	714.0
57.5°	720.0	602.0	552.0	476.0	702.0
60°	652.0	508.0	470.0	418.0	644.0
62.5°	596.0	438.0	430.0	378.0	584.0
65°	536.0	390.0	388.0	344.0	496.0
67.5°	478.0	358.0	356.0	312.0	378.0
70°	416.0	324.0	320.0	278.0	280.0
72.5°	352.0	286.0	282.0	250.0	232.0
75°	288.0	242.0	240.0	218.0	188.0
77.5°	226.0	192.0	196.0	176.0	138.0
80°	162.0	140.0	144.0	126.0	104.0
82.5°	108.0	92.0	96.0	80.0	70.0
85°	60.0	52.0	54.0	42.0	32.0
87.5°	28.0	24.0	24.0	16.0	10.0
90°	8.8	5.6	5.2	3.6	2.0
92.5°	54.4	38.7	35.3	21.6	8.0
95°	133.7	75.3	69.1	44.1	19.2
97.5°	180.1	82.7	77.2	55.3	33.3
100°	197.0	88.9	83.9	64.0	44.1
102.5°	204.8	95.1	90.5	71.9	53.3
105°	210.6	104.4	100.5	84.7	68.9
107.5°	211.6	118.0	114.3	99.6	84.9
110°	210.0	125.6	122.3	109.0	95.8



TEST NUMBER: P933916

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	210.1	134.8	131.6	119.0	106.4
115°	212.0	148.6	145.7	134.0	122.4
117.5°	216.0	162.1	159.4	148.8	138.2
120°	219.2	169.9	167.4	157.4	147.4
122.5°	223.8	179.1	176.6	166.5	156.4
125°	230.0	190.9	188.6	179.5	170.3
127.5°	236.2	202.3	200.0	190.7	181.5
130°	240.7	209.9	207.4	197.5	187.5
132.5°	244.4	216.1	213.6	203.7	193.7
135°	248.4	223.4	221.1	212.0	202.9
137.5°	254.4	232.6	230.3	221.3	212.3
140°	258.1	238.8	236.7	228.4	220.1
142.5°	261.2	243.4	241.5	233.8	226.2
145°	265.2	250.4	248.7	242.1	235.4
147.5°	271.0	259.2	257.6	251.1	244.6
150°	274.1	263.8	262.3	256.5	250.6
152.5°	276.1	266.8	265.7	261.2	256.8
155°	280.5	273.4	272.6	269.3	266.0
157.5°	284.9	280.0	279.2	276.0	272.8
160°	286.9	283.0	282.4	279.9	277.4
162.5°	289.0	286.2	285.7	283.9	282.0
165°	292.2	290.9	290.5	288.8	287.1
167.5°	294.6	293.5	293.3	292.5	291.7
170°	296.6	296.5	296.3	295.5	294.7
172.5°	296.7	296.7	296.7	296.5	296.3
175°	297.9	298.5	298.5	298.5	298.5
177.5°	298.0	298.5	298.5	298.5	298.5
180°	298.5	298.5	298.5	298.5	298.5



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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	14.71	15.83	15.43	16.57	17.46	17.54	18.67	18.26	19.41	20.29
	3H	15.20	16.21	15.94	16.97	17.88	18.91	19.92	19.65	20.67	21.59
	4H	15.41	16.36	16.16	17.12	18.05	19.37	20.32	20.12	21.08	22.01
	6H	15.54	16.42	16.30	17.19	18.13	19.67	20.55	20.43	21.32	22.26
	8H	15.55	16.39	16.32	17.18	18.12	19.75	20.59	20.53	21.38	22.32
	12H	15.53	16.33	16.31	17.11	18.08	19.80	20.60	20.58	21.38	22.35
4H	2H	15.77	16.73	16.53	17.49	18.41	17.98	18.94	18.74	19.70	20.63
	3H	16.82	17.62	17.59	18.42	19.36	19.52	20.31	20.29	21.11	22.05
	4H	17.11	17.83	17.89	18.63	19.60	20.06	20.78	20.84	21.58	22.55
	6H	17.25	17.88	18.05	18.70	19.68	20.44	21.06	21.24	21.89	22.87
	8H	17.26	17.85	18.07	18.66	19.66	20.55	21.14	21.36	21.95	22.95
	12H	17.24	17.77	18.07	18.61	19.60	20.62	21.15	21.45	21.99	22.99
8H	4H	17.59	18.17	18.39	18.99	19.98	20.20	20.79	21.01	21.60	22.60
	6H	17.86	18.34	18.69	19.20	20.19	20.65	21.14	21.49	22.00	22.99
	8H	17.90	18.33	18.75	19.19	20.20	20.81	21.24	21.65	22.09	23.10
	12H	17.90	18.28	18.75	19.13	20.19	20.92	21.30	21.77	22.15	23.21
12H	4H	17.61	18.13	18.43	18.97	19.97	20.18	20.71	21.01	21.54	22.54
	6H	17.92	18.35	18.77	19.21	20.22	20.65	21.08	21.50	21.94	22.95
	8H	18.00	18.38	18.85	19.23	20.29	20.83	21.21	21.67	22.05	23.12