

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: P933920

Luminaire Tested: SQ4-FA-025U-075D-840-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933920
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-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

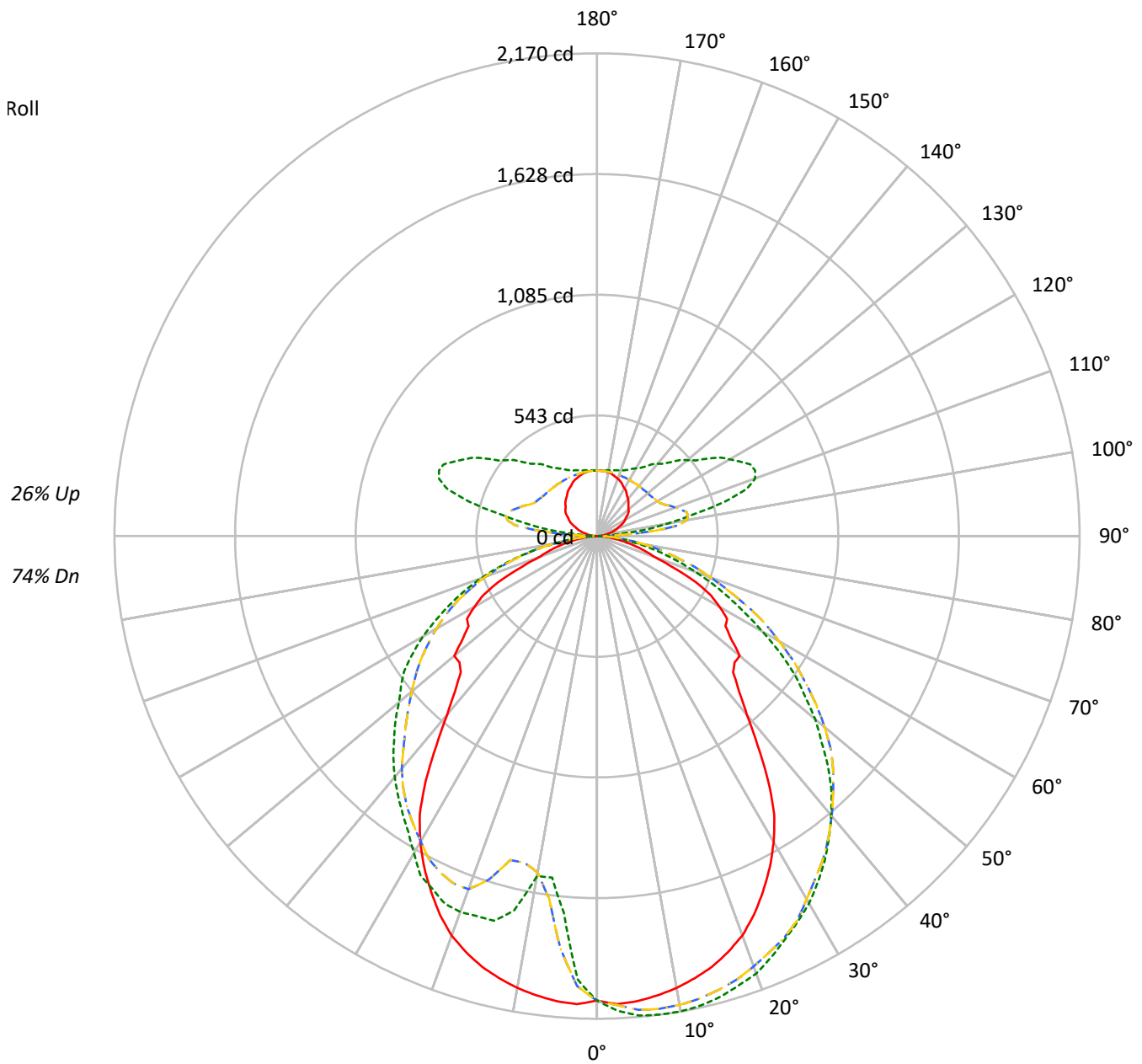
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7328.0 lumens
Efficiency: N/A
Efficacy: 122.1 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				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	74				74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62				62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52				52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44				44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38				38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33				33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29				29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26				26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23				23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21				21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9690	9690	9690	9690
5°	9762	9782	9762	7691
10°	9697	9635	9697	6889
15°	9592	9427	9592	7872
20°	9391	9179	9391	7888
25°	8981	8818	8981	7720
30°	8450	8519	8450	7354
35°	7533	8140	7533	6950
40°	6277	7694	6277	6645
45°	5609	7172	5609	6295
50°	5958	6550	5958	5944
55°	5606	5879	5606	5740
60°	5779	4994	5779	5258
65°	5239	4128	5239	4614
70°	3628	3290	3628	3868
75°	3181	2432	3181	2912
80°	2565	1607	2565	1750
85°	1472	851	1472	724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8596 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	2.6
10°-20°	535.3	7.3
20°-30°	827.4	11.3
30°-40°	987.8	13.5
40°-50°	993.6	13.6
50°-60°	864.6	11.8
60°-70°	613.0	8.4
70°-80°	324.3	4.4
80°-90°	81.9	1.1
90°-100°	143.7	2.0
100°-110°	377.9	5.2
110°-120°	391.9	5.3
120°-130°	314.3	4.3
130°-140°	246.6	3.4
140°-150°	189.3	2.6
150°-160°	136.3	1.9
160°-170°	83.4	1.1
170°-180°	28.2	0.4
0°-30°	1551.2	21.2
0°-40°	2539.0	34.6
0°-60°	4397.2	60.0
0°-90°	5416.4	73.9
90°-120°	913.5	12.5
90°-150°	1663.7	22.7
90°-180°	1912.0	26.1
0°-180°	7328.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2088	2088	2088	2088	2088	
5°	2098	2164	2098	1701	2098	199
15°	2004	2144	2004	1790	2004	564
25°	1764	2000	1764	1751	1764	810
35°	1342	1784	1342	1523	1342	830
45°	866	1470	866	1290	866	693
55°	705	1085	705	1059	705	648
65°	490	654	490	731	490	468
75°	186	310	186	372	186	195
85°	32	79	32	67	32	43
90°	2	8	2	8	2	3
95°	19	87	19	87	19	21
105°	68	592	68	592	68	72
115°	121	762	121	762	121	119
125°	168	607	168	607	168	149
135°	200	471	200	471	200	155
145°	233	382	233	382	233	146
155°	263	329	263	329	263	121
165°	284	306	284	306	284	80
175°	295	297	295	297	295	28
180°	295	295	295	295	295	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2106.3	2106.3	2118.2	2122.1	2122.1	2116.2	2110.3	2116.2	2134.0	2139.9	2137.9
5°	2098.4	2114.2	2136.0	2139.9	2143.9	2141.9	2137.9	2141.9	2161.6	2165.6	2167.6
7.5°	2082.6	2112.2	2139.9	2145.8	2151.8	2145.8	2143.9	2147.8	2167.6	2171.5	2171.5
10°	2062.8	2104.3	2136.0	2139.9	2145.8	2139.9	2139.9	2147.8	2167.6	2171.5	2173.5
12.5°	2035.2	2092.5	2122.1	2126.1	2134.0	2132.0	2130.0	2137.9	2157.7	2161.6	2161.6
15°	2003.6	2070.7	2098.4	2102.4	2116.2	2112.2	2112.2	2120.1	2141.9	2147.8	2145.8
17.5°	1960.1	2043.1	2074.7	2080.6	2090.5	2088.5	2090.5	2098.4	2118.2	2122.1	2124.1
20°	1910.7	2005.5	2043.1	2049.0	2058.9	2058.9	2058.9	2068.8	2088.5	2096.4	2096.4
22.5°	1843.5	1966.0	2005.5	2009.5	2021.3	2021.3	2025.3	2039.1	2056.9	2058.9	2058.9
25°	1764.5	1922.5	1956.1	1968.0	1979.9	1985.8	1991.7	1999.6	2005.5	2003.6	2005.5
27.5°	1681.5	1867.2	1910.7	1918.6	1934.4	1940.3	1948.2	1950.2	1952.2	1958.1	1954.2
30°	1588.6	1790.2	1855.4	1863.3	1889.0	1892.9	1885.0	1889.0	1898.8	1902.8	1906.7
32.5°	1483.9	1675.5	1798.1	1815.8	1839.6	1827.7	1825.7	1831.7	1847.5	1847.5	1851.4
35°	1341.6	1586.6	1744.7	1760.5	1778.3	1764.5	1772.4	1774.3	1784.2	1790.2	1788.2
37.5°	1185.5	1509.6	1689.4	1701.2	1715.1	1697.3	1709.1	1715.1	1723.0	1719.0	1719.0
40°	1047.3	1389.0	1624.2	1632.1	1643.9	1630.1	1642.0	1645.9	1649.9	1645.9	1643.9
42.5°	944.5	1256.6	1555.0	1564.9	1557.0	1566.9	1570.8	1578.7	1572.8	1564.9	1564.9
45°	865.5	1221.1	1479.9	1491.8	1479.9	1495.7	1501.7	1501.7	1483.9	1479.9	1477.9
47.5°	839.8	1150.0	1404.8	1404.8	1398.9	1418.7	1428.5	1414.7	1396.9	1391.0	1391.0
50°	837.8	1071.0	1302.1	1294.2	1321.8	1345.6	1335.7	1321.8	1308.0	1286.3	1286.3
52.5°	760.8	974.2	1169.8	1199.3	1242.8	1256.6	1240.8	1227.0	1203.3	1193.4	1185.5
55°	705.4	873.4	1049.3	1108.5	1154.0	1171.8	1142.1	1128.3	1092.7	1086.8	1082.8
57.5°	693.6	727.2	938.6	1013.7	1069.0	1067.0	1049.3	1023.6	993.9	988.0	986.0
60°	636.3	525.6	820.0	909.0	966.3	960.3	944.5	920.8	893.2	889.2	885.2
62.5°	577.0	381.4	685.7	786.4	867.5	865.5	851.7	816.1	796.3	786.4	778.5
65°	490.0	320.1	488.1	654.1	770.6	774.6	745.0	719.3	697.5	685.7	683.7
67.5°	373.5	260.8	330.0	545.4	677.8	673.8	636.3	624.4	596.8	590.8	579.0
70°	276.6	173.9	229.2	442.6	586.9	577.0	547.4	533.5	507.8	494.0	486.1
72.5°	229.2	140.3	168.0	343.8	494.0	482.1	456.5	440.6	418.9	407.1	399.2
75°	185.7	148.2	128.4	254.9	401.1	393.2	369.5	353.7	335.9	320.1	322.1
77.5°	136.3	138.3	102.8	187.7	318.1	306.3	292.4	272.7	264.8	249.0	249.0
80°	102.8	108.7	77.1	128.4	229.2	229.2	217.4	203.5	189.7	181.8	181.8
82.5°	69.2	69.2	57.3	81.0	156.1	150.2	142.3	138.3	130.4	126.5	126.5
85°	31.6	39.5	35.6	49.4	85.0	88.9	88.9	85.0	83.0	79.0	81.0
87.5°	9.9	17.8	21.7	27.7	43.5	45.4	47.4	47.4	47.4	49.4	49.4
90°	2.0	3.6	5.1	5.5	8.7	12.9	15.0	13.3	10.0	7.5	7.5
92.5°	7.9	21.3	34.9	38.2	53.7	74.4	84.7	74.2	53.4	37.6	36.2
95°	19.0	43.6	68.3	74.4	132.1	209.1	247.6	220.9	167.7	127.6	123.1
97.5°	32.9	54.6	76.3	81.7	177.9	306.3	370.5	353.7	320.0	294.7	286.1
100°	43.6	63.2	82.9	87.8	194.6	337.0	408.2	409.5	412.0	413.9	403.6
102.5°	52.7	71.0	89.4	94.0	202.3	346.8	419.0	440.5	483.3	515.5	506.7
105°	68.1	83.7	99.3	103.1	208.1	347.9	417.8	465.9	562.2	634.3	629.6
107.5°	83.9	98.4	112.9	116.6	209.1	332.4	394.0	461.1	595.4	696.0	697.2
110°	94.7	107.7	120.8	124.1	207.5	318.6	374.3	449.2	599.3	711.9	716.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	105.1	117.6	130.0	133.2	207.6	306.7	356.3	433.0	586.6	701.8	709.4
115°	120.9	132.4	144.0	146.8	209.5	292.9	334.6	408.6	556.6	667.6	678.1
117.5°	136.5	147.0	157.5	160.2	213.4	284.3	319.8	386.6	520.1	620.3	631.9
120°	145.6	155.5	165.4	167.9	216.6	281.5	313.9	374.8	496.9	588.4	599.6
122.5°	154.5	164.5	174.5	177.0	221.1	279.9	309.3	364.3	474.1	556.5	567.7
125°	168.3	177.3	186.3	188.6	227.2	278.7	304.4	351.0	444.4	514.4	524.6
127.5°	179.3	188.4	197.6	199.9	233.4	277.9	300.3	340.4	420.5	480.6	489.3
130°	185.2	195.1	204.9	207.4	237.8	278.4	298.7	334.3	405.7	459.1	467.1
132.5°	191.4	201.3	211.0	213.5	241.5	278.7	297.3	329.2	393.0	440.9	448.2
135°	200.5	209.5	218.4	220.7	245.4	278.4	294.9	321.7	375.1	415.3	421.4
137.5°	209.8	218.6	227.5	229.8	251.3	280.1	294.5	317.1	362.3	396.2	401.2
140°	217.5	225.7	233.9	235.9	255.0	280.4	293.1	312.7	351.7	381.0	385.7
142.5°	223.5	231.0	238.6	240.5	258.1	281.5	293.1	310.3	344.6	370.3	374.4
145°	232.6	239.2	245.7	247.4	262.0	281.5	291.2	305.2	333.3	354.3	357.4
147.5°	241.7	248.1	254.5	256.1	267.7	283.4	291.2	302.2	324.3	340.8	343.3
150°	247.6	253.4	259.2	260.6	270.8	284.3	291.2	300.5	319.1	333.1	335.1
152.5°	253.7	258.1	262.5	263.6	272.8	285.0	291.2	299.1	315.0	326.9	328.5
155°	262.8	266.1	269.3	270.1	277.1	286.5	291.2	297.5	310.1	319.6	320.6
157.5°	269.5	272.7	275.8	276.6	281.5	287.9	291.2	296.1	305.9	313.3	314.0
160°	274.1	276.5	279.0	279.6	283.5	288.6	291.2	295.4	303.8	310.1	310.5
162.5°	278.6	280.5	282.3	282.8	285.5	289.3	291.2	294.7	301.8	307.2	307.6
165°	283.7	285.3	287.0	287.4	288.7	290.4	291.2	293.7	298.8	302.6	303.0
167.5°	288.2	289.0	289.8	290.0	291.1	292.4	293.1	294.8	298.2	300.6	300.8
170°	291.2	292.0	292.7	292.9	293.0	293.1	293.1	294.8	298.2	300.6	300.6
172.5°	292.7	292.9	293.1	293.1	293.1	293.1	293.1	294.4	297.1	299.1	298.9
175°	294.9	294.9	294.9	294.9	294.3	293.5	293.1	293.9	295.6	296.9	296.9
177.5°	294.9	294.9	294.9	294.9	294.4	293.8	293.5	294.2	295.5	296.5	296.3
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2141.9	2136.0	2141.9	2137.9	2139.9	2134.0	2116.2	2110.3	2116.2	2122.1	2122.1
5°	2167.6	2163.6	2167.6	2167.6	2165.6	2161.6	2141.9	2137.9	2141.9	2143.9	2139.9
7.5°	2175.5	2169.5	2175.5	2171.5	2171.5	2167.6	2147.8	2143.9	2145.8	2151.8	2145.8
10°	2175.5	2169.5	2175.5	2173.5	2171.5	2167.6	2147.8	2139.9	2139.9	2145.8	2139.9
12.5°	2165.6	2161.6	2165.6	2161.6	2161.6	2157.7	2137.9	2130.0	2132.0	2134.0	2126.1
15°	2149.8	2143.9	2149.8	2145.8	2147.8	2141.9	2120.1	2112.2	2112.2	2116.2	2102.4
17.5°	2126.1	2118.2	2126.1	2124.1	2122.1	2118.2	2098.4	2090.5	2088.5	2090.5	2080.6
20°	2098.4	2092.5	2098.4	2096.4	2096.4	2088.5	2068.8	2058.9	2058.9	2058.9	2049.0
22.5°	2054.9	2049.0	2054.9	2058.9	2058.9	2056.9	2039.1	2025.3	2021.3	2021.3	2009.5
25°	2005.5	1999.6	2005.5	2005.5	2003.6	2005.5	1999.6	1991.7	1985.8	1979.9	1968.0
27.5°	1958.1	1954.2	1958.1	1954.2	1958.1	1952.2	1950.2	1948.2	1940.3	1934.4	1918.6
30°	1910.7	1906.7	1910.7	1906.7	1902.8	1898.8	1889.0	1885.0	1892.9	1889.0	1863.3
32.5°	1851.4	1847.5	1851.4	1851.4	1847.5	1847.5	1831.7	1825.7	1827.7	1839.6	1815.8
35°	1790.2	1784.2	1790.2	1788.2	1790.2	1784.2	1774.3	1772.4	1764.5	1778.3	1760.5
37.5°	1719.0	1713.1	1719.0	1719.0	1719.0	1723.0	1715.1	1709.1	1697.3	1715.1	1701.2
40°	1645.9	1638.0	1645.9	1643.9	1645.9	1649.9	1645.9	1642.0	1630.1	1643.9	1632.1
42.5°	1562.9	1560.9	1562.9	1564.9	1564.9	1572.8	1578.7	1570.8	1566.9	1557.0	1564.9
45°	1474.0	1470.0	1474.0	1477.9	1479.9	1483.9	1501.7	1501.7	1495.7	1479.9	1491.8
47.5°	1379.1	1369.3	1379.1	1391.0	1391.0	1396.9	1414.7	1428.5	1418.7	1398.9	1404.8
50°	1278.4	1280.3	1278.4	1286.3	1286.3	1308.0	1321.8	1335.7	1345.6	1321.8	1294.2
52.5°	1179.6	1177.7	1179.6	1185.5	1193.4	1203.3	1227.0	1240.8	1256.6	1242.8	1199.3
55°	1080.9	1084.8	1080.9	1082.8	1086.8	1092.7	1128.3	1142.1	1171.8	1154.0	1108.5
57.5°	982.1	976.1	982.1	986.0	988.0	993.9	1023.6	1049.3	1067.0	1069.0	1013.7
60°	867.5	859.6	867.5	885.2	889.2	893.2	920.8	944.5	960.3	966.3	909.0
62.5°	766.7	752.9	766.7	778.5	786.4	796.3	816.1	851.7	865.5	867.5	786.4
65°	660.0	654.1	660.0	683.7	685.7	697.5	719.3	745.0	774.6	770.6	654.1
67.5°	563.2	563.2	563.2	579.0	590.8	596.8	624.4	636.3	673.8	677.8	545.4
70°	474.2	472.3	474.2	486.1	494.0	507.8	533.5	547.4	577.0	586.9	442.6
72.5°	389.3	387.3	389.3	399.2	407.1	418.9	440.6	456.5	482.1	494.0	343.8
75°	314.2	310.2	314.2	322.1	320.1	335.9	353.7	369.5	393.2	401.1	254.9
77.5°	241.1	241.1	241.1	249.0	249.0	264.8	272.7	292.4	306.3	318.1	187.7
80°	179.8	177.8	179.8	181.8	181.8	189.7	203.5	217.4	229.2	229.2	128.4
82.5°	126.5	122.5	126.5	126.5	126.5	130.4	138.3	142.3	150.2	156.1	81.0
85°	79.0	79.0	79.0	81.0	79.0	83.0	85.0	88.9	88.9	85.0	49.4
87.5°	51.4	49.4	51.4	49.4	49.4	47.4	47.4	47.4	45.4	43.5	27.7
90°	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9	8.7	5.5
92.5°	30.1	24.1	30.1	36.2	37.6	53.4	74.2	84.7	74.4	53.7	38.2
95°	105.0	86.8	105.0	123.1	127.6	167.7	220.9	247.6	209.1	132.1	74.4
97.5°	251.5	217.1	251.5	286.1	294.7	320.0	353.7	370.5	306.3	177.9	81.7
100°	362.5	321.4	362.5	403.6	413.9	412.0	409.5	408.2	337.0	194.6	87.8
102.5°	471.6	436.4	471.6	506.7	515.5	483.3	440.5	419.0	346.8	202.3	94.0
105°	610.7	591.7	610.7	629.6	634.3	562.2	465.9	417.8	347.9	208.1	103.1
107.5°	701.8	706.3	701.8	697.2	696.0	595.4	461.1	394.0	332.4	209.1	116.6
110°	736.5	756.2	736.5	716.8	711.9	599.3	449.2	374.3	318.6	207.5	124.1



TEST NUMBER: P933920

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	739.6	769.8	739.6	709.4	701.8	586.6	433.0	356.3	306.7	207.6	133.2
115°	720.1	761.9	720.1	678.1	667.6	556.6	408.6	334.6	292.9	209.5	146.8
117.5°	678.5	725.0	678.5	631.9	620.3	520.1	386.6	319.8	284.3	213.4	160.2
120°	644.9	690.1	644.9	599.6	588.4	496.9	374.8	313.9	281.5	216.6	167.9
122.5°	612.3	656.8	612.3	567.7	556.5	474.1	364.3	309.3	279.9	221.1	177.0
125°	565.7	606.8	565.7	524.6	514.4	444.4	351.0	304.4	278.7	227.2	188.6
127.5°	523.8	558.5	523.8	489.3	480.6	420.5	340.4	300.3	277.9	233.4	199.9
130°	499.1	531.1	499.1	467.1	459.1	405.7	334.3	298.7	278.4	237.8	207.4
132.5°	476.8	505.5	476.8	448.2	440.9	393.0	329.2	297.3	278.7	241.5	213.5
135°	446.1	470.8	446.1	421.4	415.3	375.1	321.7	294.9	278.4	245.4	220.7
137.5°	421.5	441.7	421.5	401.2	396.2	362.3	317.1	294.5	280.1	251.3	229.8
140°	404.6	423.6	404.6	385.7	381.0	351.7	312.7	293.1	280.4	255.0	235.9
142.5°	390.7	406.9	390.7	374.4	370.3	344.6	310.3	293.1	281.5	258.1	240.5
145°	369.7	382.0	369.7	357.4	354.3	333.3	305.2	291.2	281.5	262.0	247.4
147.5°	353.5	363.8	353.5	343.3	340.8	324.3	302.2	291.2	283.4	267.7	256.1
150°	343.4	351.7	343.4	335.1	333.1	319.1	300.5	291.2	284.3	270.8	260.6
152.5°	334.7	341.0	334.7	328.5	326.9	315.0	299.1	291.2	285.0	272.8	263.6
155°	324.8	328.9	324.8	320.6	319.6	310.1	297.5	291.2	286.5	277.1	270.1
157.5°	317.0	319.8	317.0	314.0	313.3	305.9	296.1	291.2	287.9	281.5	276.6
160°	312.2	313.9	312.2	310.5	310.1	303.8	295.4	291.2	288.6	283.5	279.6
162.5°	309.1	310.7	309.1	307.6	307.2	301.8	294.7	291.2	289.3	285.5	282.8
165°	304.7	306.4	304.7	303.0	302.6	298.8	293.7	291.2	290.4	288.7	287.4
167.5°	301.5	302.2	301.5	300.8	300.6	298.2	294.8	293.1	292.4	291.1	290.0
170°	300.6	300.6	300.6	300.6	300.6	298.2	294.8	293.1	293.1	293.0	292.9
172.5°	298.3	297.7	298.3	298.9	299.1	297.1	294.4	293.1	293.1	293.1	293.1
175°	296.9	296.9	296.9	296.9	296.9	295.6	293.9	293.1	293.5	294.3	294.9
177.5°	295.6	294.9	295.6	296.3	296.5	295.5	294.2	293.5	293.8	294.4	294.9
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



TEST NUMBER: P933920

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2118.2	2106.3	2106.3	2086.6	2078.7	2072.7	2062.8	2033.2	2025.3	2017.4	2029.3
5°	2136.0	2114.2	2098.4	2062.8	2033.2	2021.3	1983.8	1912.7	1865.2	1829.7	1809.9
7.5°	2139.9	2112.2	2082.6	2027.3	1956.1	1924.5	1809.9	1679.5	1643.9	1612.3	1592.6
10°	2136.0	2104.3	2062.8	1979.9	1811.9	1756.6	1642.0	1557.0	1535.3	1529.3	1535.3
12.5°	2122.1	2092.5	2035.2	1896.9	1661.7	1624.2	1557.0	1507.6	1503.6	1513.5	1566.9
15°	2098.4	2070.7	2003.6	1786.2	1578.7	1551.1	1503.6	1485.9	1507.6	1576.7	1736.8
17.5°	2074.7	2043.1	1960.1	1677.5	1515.5	1495.7	1462.1	1497.7	1620.2	1713.1	1766.4
20°	2043.1	2005.5	1910.7	1598.5	1470.0	1452.3	1436.5	1596.5	1689.4	1723.0	1752.6
22.5°	2005.5	1966.0	1843.5	1543.2	1422.6	1408.8	1418.7	1651.8	1689.4	1713.1	1738.8
25°	1956.1	1922.5	1764.5	1499.7	1385.1	1369.3	1406.8	1645.9	1667.6	1673.6	1724.9
27.5°	1910.7	1867.2	1681.5	1460.2	1339.6	1333.7	1416.7	1620.2	1636.0	1642.0	1697.3
30°	1855.4	1790.2	1588.6	1418.7	1292.2	1290.2	1418.7	1588.6	1584.7	1600.5	1655.8
32.5°	1798.1	1675.5	1483.9	1367.3	1246.8	1244.8	1404.8	1541.2	1537.2	1559.0	1600.5
35°	1744.7	1586.6	1341.6	1308.0	1189.5	1191.4	1371.2	1485.9	1487.8	1507.6	1533.3
37.5°	1689.4	1509.6	1185.5	1242.8	1134.2	1134.2	1325.8	1434.5	1430.5	1436.5	1472.0
40°	1624.2	1389.0	1047.3	1157.9	1082.8	1076.9	1270.5	1379.1	1365.3	1363.3	1412.7
42.5°	1555.0	1256.6	944.5	1045.3	1023.6	1015.7	1203.3	1312.0	1286.3	1292.2	1355.4
45°	1479.9	1221.1	865.5	883.3	962.3	956.4	1130.3	1234.9	1217.1	1232.9	1298.1
47.5°	1404.8	1150.0	839.8	733.1	897.1	895.1	1049.3	1159.9	1150.0	1165.8	1234.9
50°	1302.1	1071.0	837.8	628.4	824.0	831.9	952.4	1086.8	1086.8	1100.6	1173.7
52.5°	1169.8	974.2	760.8	569.1	739.0	762.7	867.5	1023.6	1027.5	1041.4	1106.6
55°	1049.3	873.4	705.4	523.6	638.2	689.6	784.5	958.4	966.3	980.1	1039.4
57.5°	938.6	727.2	693.6	470.3	545.4	594.8	711.4	895.1	899.1	910.9	968.2
60°	820.0	525.6	636.3	413.0	464.4	501.9	644.2	820.0	833.9	841.8	891.2
62.5°	685.7	381.4	577.0	373.5	424.8	432.7	588.8	748.9	766.7	772.6	802.3
65°	488.1	320.1	490.0	339.9	383.3	385.3	529.6	675.8	691.6	701.5	723.2
67.5°	330.0	260.8	373.5	308.3	351.7	353.7	472.3	590.8	612.6	620.5	634.3
70°	229.2	173.9	276.6	274.7	316.2	320.1	411.0	513.8	533.5	539.4	547.4
72.5°	168.0	140.3	229.2	247.0	278.6	282.6	347.8	426.8	446.6	452.5	456.5
75°	128.4	148.2	185.7	215.4	237.1	239.1	284.5	347.8	361.6	365.6	367.5
77.5°	102.8	138.3	136.3	173.9	193.6	189.7	223.3	268.7	280.6	280.6	280.6
80°	77.1	108.7	102.8	124.5	142.3	138.3	160.1	191.7	195.6	199.6	197.6
82.5°	57.3	69.2	69.2	79.0	94.8	90.9	106.7	124.5	124.5	124.5	128.4
85°	35.6	39.5	31.6	41.5	53.4	51.4	59.3	67.2	69.2	69.2	65.2
87.5°	21.7	17.8	9.9	15.8	23.7	23.7	27.7	29.6	27.7	27.7	27.7
90°	5.1	3.6	2.0	3.6	5.1	5.5	8.7	12.9	15.0	13.3	10.0
92.5°	34.9	21.3	7.9	21.3	34.9	38.2	53.7	74.4	84.7	74.2	53.4
95°	68.3	43.6	19.0	43.6	68.3	74.4	132.1	209.1	247.6	220.9	167.7
97.5°	76.3	54.6	32.9	54.6	76.3	81.7	177.9	306.3	370.5	353.7	320.0
100°	82.9	63.2	43.6	63.2	82.9	87.8	194.6	337.0	408.2	409.5	412.0
102.5°	89.4	71.0	52.7	71.0	89.4	94.0	202.3	346.8	419.0	440.5	483.3
105°	99.3	83.7	68.1	83.7	99.3	103.1	208.1	347.9	417.8	465.9	562.2
107.5°	112.9	98.4	83.9	98.4	112.9	116.6	209.1	332.4	394.0	461.1	595.4
110°	120.8	107.7	94.7	107.7	120.8	124.1	207.5	318.6	374.3	449.2	599.3



TEST NUMBER: P933920

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	130.0	117.6	105.1	117.6	130.0	133.2	207.6	306.7	356.3	433.0	586.6
115°	144.0	132.4	120.9	132.4	144.0	146.8	209.5	292.9	334.6	408.6	556.6
117.5°	157.5	147.0	136.5	147.0	157.5	160.2	213.4	284.3	319.8	386.6	520.1
120°	165.4	155.5	145.6	155.5	165.4	167.9	216.6	281.5	313.9	374.8	496.9
122.5°	174.5	164.5	154.5	164.5	174.5	177.0	221.1	279.9	309.3	364.3	474.1
125°	186.3	177.3	168.3	177.3	186.3	188.6	227.2	278.7	304.4	351.0	444.4
127.5°	197.6	188.4	179.3	188.4	197.6	199.9	233.4	277.9	300.3	340.4	420.5
130°	204.9	195.1	185.2	195.1	204.9	207.4	237.8	278.4	298.7	334.3	405.7
132.5°	211.0	201.3	191.4	201.3	211.0	213.5	241.5	278.7	297.3	329.2	393.0
135°	218.4	209.5	200.5	209.5	218.4	220.7	245.4	278.4	294.9	321.7	375.1
137.5°	227.5	218.6	209.8	218.6	227.5	229.8	251.3	280.1	294.5	317.1	362.3
140°	233.9	225.7	217.5	225.7	233.9	235.9	255.0	280.4	293.1	312.7	351.7
142.5°	238.6	231.0	223.5	231.0	238.6	240.5	258.1	281.5	293.1	310.3	344.6
145°	245.7	239.2	232.6	239.2	245.7	247.4	262.0	281.5	291.2	305.2	333.3
147.5°	254.5	248.1	241.7	248.1	254.5	256.1	267.7	283.4	291.2	302.2	324.3
150°	259.2	253.4	247.6	253.4	259.2	260.6	270.8	284.3	291.2	300.5	319.1
152.5°	262.5	258.1	253.7	258.1	262.5	263.6	272.8	285.0	291.2	299.1	315.0
155°	269.3	266.1	262.8	266.1	269.3	270.1	277.1	286.5	291.2	297.5	310.1
157.5°	275.8	272.7	269.5	272.7	275.8	276.6	281.5	287.9	291.2	296.1	305.9
160°	279.0	276.5	274.1	276.5	279.0	279.6	283.5	288.6	291.2	295.4	303.8
162.5°	282.3	280.5	278.6	280.5	282.3	282.8	285.5	289.3	291.2	294.7	301.8
165°	287.0	285.3	283.7	285.3	287.0	287.4	288.7	290.4	291.2	293.7	298.8
167.5°	289.8	289.0	288.2	289.0	289.8	290.0	291.1	292.4	293.1	294.8	298.2
170°	292.7	292.0	291.2	292.0	292.7	292.9	293.0	293.1	293.1	294.8	298.2
172.5°	293.1	292.9	292.7	292.9	293.1	293.1	293.1	293.1	293.1	294.4	297.1
175°	294.9	294.9	294.9	294.9	294.9	294.9	294.3	293.5	293.1	293.9	295.6
177.5°	294.9	294.9	294.9	294.9	294.9	294.9	294.4	293.8	293.5	294.2	295.5
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



TEST NUMBER: P933920
 CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2015.4	2009.5	2017.4	1995.7	2017.4	2009.5	2015.4	2029.3	2017.4	2025.3	2033.2
5°	1768.4	1758.5	1726.9	1701.2	1726.9	1758.5	1768.4	1809.9	1829.7	1865.2	1912.7
7.5°	1580.7	1572.8	1564.9	1549.1	1564.9	1572.8	1580.7	1592.6	1612.3	1643.9	1679.5
10°	1539.2	1541.2	1553.0	1551.1	1553.0	1541.2	1539.2	1535.3	1529.3	1535.3	1557.0
12.5°	1645.9	1663.7	1728.9	1724.9	1728.9	1663.7	1645.9	1566.9	1513.5	1503.6	1507.6
15°	1768.4	1774.3	1788.2	1790.2	1788.2	1774.3	1768.4	1736.8	1576.7	1507.6	1485.9
17.5°	1780.3	1782.3	1792.1	1792.1	1792.1	1782.3	1780.3	1766.4	1713.1	1620.2	1497.7
20°	1770.4	1774.3	1794.1	1798.1	1794.1	1774.3	1770.4	1752.6	1723.0	1689.4	1596.5
22.5°	1766.4	1774.3	1790.2	1788.2	1790.2	1774.3	1766.4	1738.8	1713.1	1689.4	1651.8
25°	1746.7	1746.7	1748.7	1750.6	1748.7	1746.7	1746.7	1724.9	1673.6	1667.6	1645.9
27.5°	1705.2	1709.1	1721.0	1719.0	1721.0	1709.1	1705.2	1697.3	1642.0	1636.0	1620.2
30°	1667.6	1663.7	1653.8	1645.9	1653.8	1663.7	1667.6	1655.8	1600.5	1584.7	1588.6
32.5°	1604.4	1594.5	1584.7	1578.7	1584.7	1594.5	1604.4	1600.5	1559.0	1537.2	1541.2
35°	1529.3	1531.3	1529.3	1523.4	1529.3	1531.3	1529.3	1533.3	1507.6	1487.8	1485.9
37.5°	1476.0	1479.9	1477.9	1470.0	1477.9	1479.9	1476.0	1472.0	1436.5	1430.5	1434.5
40°	1420.6	1422.6	1420.6	1414.7	1420.6	1422.6	1420.6	1412.7	1363.3	1365.3	1379.1
42.5°	1367.3	1365.3	1359.4	1355.4	1359.4	1365.3	1367.3	1355.4	1292.2	1286.3	1312.0
45°	1306.0	1308.0	1296.2	1290.2	1296.2	1308.0	1306.0	1298.1	1232.9	1217.1	1234.9
47.5°	1244.8	1244.8	1234.9	1229.0	1234.9	1244.8	1244.8	1234.9	1165.8	1150.0	1159.9
50°	1179.6	1177.7	1163.9	1161.9	1163.9	1177.7	1179.6	1173.7	1100.6	1086.8	1086.8
52.5°	1104.6	1104.6	1106.6	1110.5	1106.6	1104.6	1104.6	1106.6	1041.4	1027.5	1023.6
55°	1039.4	1041.4	1055.2	1059.1	1055.2	1041.4	1039.4	1039.4	980.1	966.3	958.4
57.5°	972.2	972.2	982.1	982.1	982.1	972.2	972.2	968.2	910.9	899.1	895.1
60°	895.1	899.1	907.0	905.0	907.0	899.1	895.1	891.2	841.8	833.9	820.0
62.5°	814.1	818.1	820.0	816.1	820.0	818.1	814.1	802.3	772.6	766.7	748.9
65°	729.1	733.1	735.1	731.1	735.1	733.1	729.1	723.2	701.5	691.6	675.8
67.5°	642.2	640.2	638.2	646.2	638.2	640.2	642.2	634.3	620.5	612.6	590.8
70°	553.3	553.3	551.3	555.3	551.3	553.3	553.3	547.4	539.4	533.5	513.8
72.5°	458.4	456.5	464.4	458.4	464.4	456.5	458.4	456.5	452.5	446.6	426.8
75°	365.6	369.5	365.6	371.5	365.6	369.5	365.6	367.5	365.6	361.6	347.8
77.5°	278.6	282.6	278.6	278.6	278.6	282.6	278.6	280.6	280.6	280.6	268.7
80°	197.6	195.6	195.6	193.6	195.6	195.6	197.6	197.6	199.6	195.6	191.7
82.5°	126.5	124.5	124.5	128.4	124.5	124.5	126.5	128.4	124.5	124.5	124.5
85°	69.2	71.1	67.2	67.2	67.2	71.1	69.2	65.2	69.2	69.2	67.2
87.5°	25.7	23.7	23.7	23.7	23.7	23.7	25.7	27.7	27.7	27.7	29.6
90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9
92.5°	37.6	36.2	30.1	24.1	30.1	36.2	37.6	53.4	74.2	84.7	74.4
95°	127.6	123.1	105.0	86.8	105.0	123.1	127.6	167.7	220.9	247.6	209.1
97.5°	294.7	286.1	251.5	217.1	251.5	286.1	294.7	320.0	353.7	370.5	306.3
100°	413.9	403.6	362.5	321.4	362.5	403.6	413.9	412.0	409.5	408.2	337.0
102.5°	515.5	506.7	471.6	436.4	471.6	506.7	515.5	483.3	440.5	419.0	346.8
105°	634.3	629.6	610.7	591.7	610.7	629.6	634.3	562.2	465.9	417.8	347.9
107.5°	696.0	697.2	701.8	706.3	701.8	697.2	696.0	595.4	461.1	394.0	332.4
110°	711.9	716.8	736.5	756.2	736.5	716.8	711.9	599.3	449.2	374.3	318.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	701.8	709.4	739.6	769.8	739.6	709.4	701.8	586.6	433.0	356.3	306.7
115°	667.6	678.1	720.1	761.9	720.1	678.1	667.6	556.6	408.6	334.6	292.9
117.5°	620.3	631.9	678.5	725.0	678.5	631.9	620.3	520.1	386.6	319.8	284.3
120°	588.4	599.6	644.9	690.1	644.9	599.6	588.4	496.9	374.8	313.9	281.5
122.5°	556.5	567.7	612.3	656.8	612.3	567.7	556.5	474.1	364.3	309.3	279.9
125°	514.4	524.6	565.7	606.8	565.7	524.6	514.4	444.4	351.0	304.4	278.7
127.5°	480.6	489.3	523.8	558.5	523.8	489.3	480.6	420.5	340.4	300.3	277.9
130°	459.1	467.1	499.1	531.1	499.1	467.1	459.1	405.7	334.3	298.7	278.4
132.5°	440.9	448.2	476.8	505.5	476.8	448.2	440.9	393.0	329.2	297.3	278.7
135°	415.3	421.4	446.1	470.8	446.1	421.4	415.3	375.1	321.7	294.9	278.4
137.5°	396.2	401.2	421.5	441.7	421.5	401.2	396.2	362.3	317.1	294.5	280.1
140°	381.0	385.7	404.6	423.6	404.6	385.7	381.0	351.7	312.7	293.1	280.4
142.5°	370.3	374.4	390.7	406.9	390.7	374.4	370.3	344.6	310.3	293.1	281.5
145°	354.3	357.4	369.7	382.0	369.7	357.4	354.3	333.3	305.2	291.2	281.5
147.5°	340.8	343.3	353.5	363.8	353.5	343.3	340.8	324.3	302.2	291.2	283.4
150°	333.1	335.1	343.4	351.7	343.4	335.1	333.1	319.1	300.5	291.2	284.3
152.5°	326.9	328.5	334.7	341.0	334.7	328.5	326.9	315.0	299.1	291.2	285.0
155°	319.6	320.6	324.8	328.9	324.8	320.6	319.6	310.1	297.5	291.2	286.5
157.5°	313.3	314.0	317.0	319.8	317.0	314.0	313.3	305.9	296.1	291.2	287.9
160°	310.1	310.5	312.2	313.9	312.2	310.5	310.1	303.8	295.4	291.2	288.6
162.5°	307.2	307.6	309.1	310.7	309.1	307.6	307.2	301.8	294.7	291.2	289.3
165°	302.6	303.0	304.7	306.4	304.7	303.0	302.6	298.8	293.7	291.2	290.4
167.5°	300.6	300.8	301.5	302.2	301.5	300.8	300.6	298.2	294.8	293.1	292.4
170°	300.6	300.6	300.6	300.6	300.6	300.6	300.6	298.2	294.8	293.1	293.1
172.5°	299.1	298.9	298.3	297.7	298.3	298.9	299.1	297.1	294.4	293.1	293.1
175°	296.9	296.9	296.9	296.9	296.9	296.9	296.9	295.6	293.9	293.1	293.5
177.5°	296.5	296.3	295.6	294.9	295.6	296.3	296.5	295.5	294.2	293.5	293.8
180°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9	294.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2062.8	2072.7	2078.7	2086.6	2106.3
5°	1983.8	2021.3	2033.2	2062.8	2098.4
7.5°	1809.9	1924.5	1956.1	2027.3	2082.6
10°	1642.0	1756.6	1811.9	1979.9	2062.8
12.5°	1557.0	1624.2	1661.7	1896.9	2035.2
15°	1503.6	1551.1	1578.7	1786.2	2003.6
17.5°	1462.1	1495.7	1515.5	1677.5	1960.1
20°	1436.5	1452.3	1470.0	1598.5	1910.7
22.5°	1418.7	1408.8	1422.6	1543.2	1843.5
25°	1406.8	1369.3	1385.1	1499.7	1764.5
27.5°	1416.7	1333.7	1339.6	1460.2	1681.5
30°	1418.7	1290.2	1292.2	1418.7	1588.6
32.5°	1404.8	1244.8	1246.8	1367.3	1483.9
35°	1371.2	1191.4	1189.5	1308.0	1341.6
37.5°	1325.8	1134.2	1134.2	1242.8	1185.5
40°	1270.5	1076.9	1082.8	1157.9	1047.3
42.5°	1203.3	1015.7	1023.6	1045.3	944.5
45°	1130.3	956.4	962.3	883.3	865.5
47.5°	1049.3	895.1	897.1	733.1	839.8
50°	952.4	831.9	824.0	628.4	837.8
52.5°	867.5	762.7	739.0	569.1	760.8
55°	784.5	689.6	638.2	523.6	705.4
57.5°	711.4	594.8	545.4	470.3	693.6
60°	644.2	501.9	464.4	413.0	636.3
62.5°	588.8	432.7	424.8	373.5	577.0
65°	529.6	385.3	383.3	339.9	490.0
67.5°	472.3	353.7	351.7	308.3	373.5
70°	411.0	320.1	316.2	274.7	276.6
72.5°	347.8	282.6	278.6	247.0	229.2
75°	284.5	239.1	237.1	215.4	185.7
77.5°	223.3	189.7	193.6	173.9	136.3
80°	160.1	138.3	142.3	124.5	102.8
82.5°	106.7	90.9	94.8	79.0	69.2
85°	59.3	51.4	53.4	41.5	31.6
87.5°	27.7	23.7	23.7	15.8	9.9
90°	8.7	5.5	5.1	3.6	2.0
92.5°	53.7	38.2	34.9	21.3	7.9
95°	132.1	74.4	68.3	43.6	19.0
97.5°	177.9	81.7	76.3	54.6	32.9
100°	194.6	87.8	82.9	63.2	43.6
102.5°	202.3	94.0	89.4	71.0	52.7
105°	208.1	103.1	99.3	83.7	68.1
107.5°	209.1	116.6	112.9	98.4	83.9
110°	207.5	124.1	120.8	107.7	94.7



TEST NUMBER: P933920

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	207.6	133.2	130.0	117.6	105.1
115°	209.5	146.8	144.0	132.4	120.9
117.5°	213.4	160.2	157.5	147.0	136.5
120°	216.6	167.9	165.4	155.5	145.6
122.5°	221.1	177.0	174.5	164.5	154.5
125°	227.2	188.6	186.3	177.3	168.3
127.5°	233.4	199.9	197.6	188.4	179.3
130°	237.8	207.4	204.9	195.1	185.2
132.5°	241.5	213.5	211.0	201.3	191.4
135°	245.4	220.7	218.4	209.5	200.5
137.5°	251.3	229.8	227.5	218.6	209.8
140°	255.0	235.9	233.9	225.7	217.5
142.5°	258.1	240.5	238.6	231.0	223.5
145°	262.0	247.4	245.7	239.2	232.6
147.5°	267.7	256.1	254.5	248.1	241.7
150°	270.8	260.6	259.2	253.4	247.6
152.5°	272.8	263.6	262.5	258.1	253.7
155°	277.1	270.1	269.3	266.1	262.8
157.5°	281.5	276.6	275.8	272.7	269.5
160°	283.5	279.6	279.0	276.5	274.1
162.5°	285.5	282.8	282.3	280.5	278.6
165°	288.7	287.4	287.0	285.3	283.7
167.5°	291.1	290.0	289.8	289.0	288.2
170°	293.0	292.9	292.7	292.0	291.2
172.5°	293.1	293.1	293.1	292.9	292.7
175°	294.3	294.9	294.9	294.9	294.9
177.5°	294.4	294.9	294.9	294.9	294.9
180°	294.9	294.9	294.9	294.9	294.9



TEST NUMBER: P933920
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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	14.66	15.79	15.38	16.53	17.41	17.50	18.63	18.22	19.37	20.25
	3H	15.16	16.17	15.89	16.92	17.84	18.87	19.88	19.60	20.63	21.55
	4H	15.36	16.32	16.12	17.08	18.01	19.33	20.28	20.08	21.04	21.97
	6H	15.50	16.38	16.26	17.15	18.09	19.63	20.51	20.39	21.28	22.22
	8H	15.50	16.34	16.28	17.13	18.08	19.71	20.55	20.49	21.34	22.28
	12H	15.48	16.29	16.27	17.07	18.04	19.76	20.56	20.54	21.34	22.31
4H	2H	15.73	16.68	16.49	17.44	18.37	17.94	18.90	18.70	19.66	20.58
	3H	16.78	17.58	17.55	18.37	19.32	19.47	20.27	20.24	21.07	22.01
	4H	17.07	17.79	17.85	18.59	19.56	20.01	20.74	20.80	21.53	22.51
	6H	17.21	17.83	18.01	18.66	19.63	20.40	21.02	21.20	21.84	22.82
	8H	17.22	17.80	18.03	18.62	19.61	20.51	21.10	21.32	21.91	22.90
	12H	17.20	17.73	18.03	18.56	19.56	20.58	21.11	21.41	21.95	22.94
8H	4H	17.54	18.13	18.35	18.95	19.94	20.16	20.75	20.97	21.56	22.55
	6H	17.82	18.30	18.65	19.16	20.15	20.61	21.09	21.44	21.95	22.95
	8H	17.86	18.29	18.71	19.15	20.16	20.77	21.20	21.61	22.05	23.06
	12H	17.86	18.24	18.71	19.08	20.15	20.88	21.26	21.73	22.10	23.17
12H	4H	17.56	18.09	18.39	18.93	19.93	20.14	20.66	20.96	21.50	22.50
	6H	17.88	18.31	18.73	19.17	20.18	20.61	21.04	21.45	21.90	22.91
	8H	17.96	18.34	18.81	19.19	20.25	20.78	21.16	21.63	22.01	23.08