

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: P933809

Luminaire Tested: SQ4-FA-025U-050D-830-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933809
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

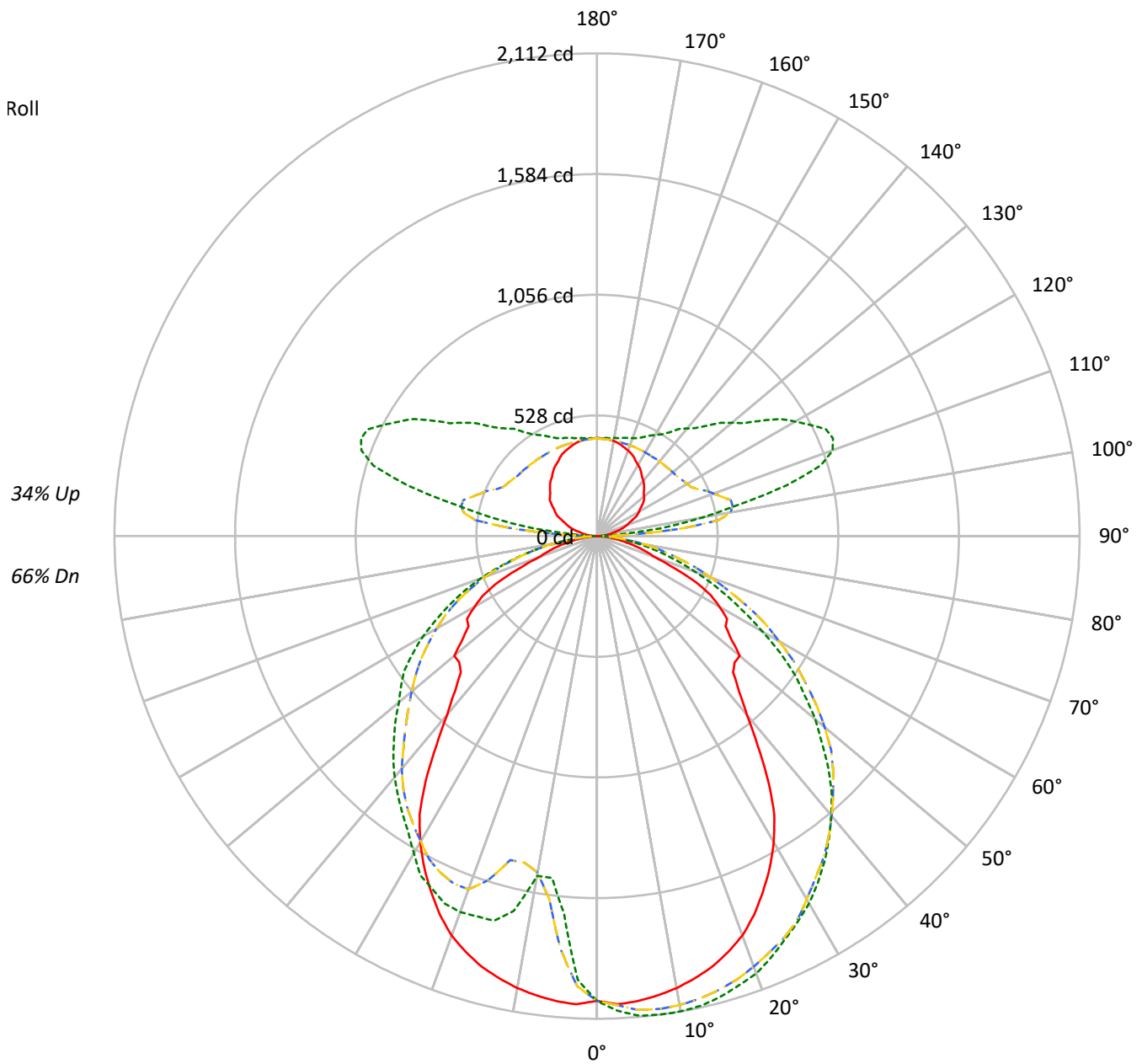
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8047.6 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 66
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	70	70	70	66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	50	50	50	46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	43	43	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	37	37	37	34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	32	32	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	28	28	28	26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	25	25	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6288	6288	6288	6288
5°	6338	6348	6338	4991
10°	6298	6253	6298	4470
15°	6231	6117	6231	5108
20°	6104	5957	6104	5119
25°	5839	5723	5839	5010
30°	5497	5529	5497	4773
35°	4903	5283	4903	4510
40°	4087	4993	4087	4313
45°	3654	4655	3654	4085
50°	3886	4250	3886	3857
55°	3660	3816	3660	3725
60°	3777	3241	3777	3412
65°	3430	2679	3430	2994
70°	2381	2135	2381	2510
75°	2096	1578	2096	1890
80°	1701	1043	1701	1136
85°	998	553	998	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5598 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	2.3
10°-20°	521.1	6.5
20°-30°	805.5	10.0
30°-40°	961.6	11.9
40°-50°	967.2	12.0
50°-60°	841.6	10.5
60°-70°	596.7	7.4
70°-80°	315.7	3.9
80°-90°	80.3	1.0
90°-100°	208.6	2.6
100°-110°	548.5	6.8
110°-120°	568.7	7.1
120°-130°	456.2	5.7
130°-140°	358.0	4.4
140°-150°	274.7	3.4
150°-160°	197.9	2.5
160°-170°	121.1	1.5
170°-180°	40.9	0.5
0°-30°	1510.0	18.8
0°-40°	2471.6	30.7
0°-60°	4280.4	53.2
0°-90°	5273.0	65.5
90°-120°	1325.9	16.5
90°-150°	2414.8	30.0
90°-180°	2775.0	34.5
0°-180°	8047.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2033	2033	2033	2033	2033	
5°	2043	2106	2043	1656	2043	194
15°	1950	2087	1950	1743	1950	549
25°	1718	1946	1718	1704	1718	789
35°	1306	1737	1306	1483	1306	808
45°	842	1431	842	1256	842	675
55°	687	1056	687	1031	687	631
65°	477	637	477	712	477	456
75°	181	302	181	362	181	190
85°	31	77	31	65	31	42
90°	3	11	3	11	3	4
95°	28	126	28	126	28	31
105°	99	859	99	859	99	105
115°	176	1106	176	1106	176	173
125°	244	881	244	881	244	217
135°	291	683	291	683	291	225
145°	338	554	338	554	338	211
155°	381	477	381	477	381	175
165°	412	445	412	445	412	116
175°	428	431	428	431	428	41
180°	428	428	428	428	428	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0
2.5°	2050.3	2050.3	2061.9	2065.7	2065.7	2060.0	2054.3	2060.0	2077.3	2083.0	2081.1
5°	2042.7	2058.1	2079.2	2083.0	2086.9	2085.0	2081.1	2085.0	2104.3	2108.1	2110.0
7.5°	2027.3	2056.2	2083.0	2088.9	2094.6	2088.9	2086.9	2090.8	2110.0	2113.8	2113.8
10°	2008.1	2048.4	2079.2	2083.0	2088.9	2083.0	2083.0	2090.8	2110.0	2113.8	2115.8
12.5°	1981.1	2036.9	2065.7	2069.6	2077.3	2075.4	2073.5	2081.1	2100.4	2104.3	2104.3
15°	1950.3	2015.7	2042.7	2046.5	2060.0	2056.2	2056.2	2063.8	2085.0	2090.8	2088.9
17.5°	1908.1	1988.9	2019.6	2025.4	2035.0	2033.0	2035.0	2042.7	2061.9	2065.7	2067.7
20°	1860.0	1952.2	1988.9	1994.6	2004.3	2004.3	2004.3	2013.8	2033.0	2040.8	2040.8
22.5°	1794.6	1913.8	1952.2	1956.2	1967.6	1967.6	1971.6	1984.9	2002.2	2004.3	2004.3
25°	1717.6	1871.5	1904.2	1915.7	1927.3	1933.0	1938.9	1946.5	1952.2	1950.3	1952.2
27.5°	1636.9	1817.6	1860.0	1867.6	1883.0	1888.8	1896.5	1898.4	1900.3	1906.1	1902.2
30°	1546.4	1742.6	1806.1	1813.8	1838.8	1842.7	1834.9	1838.8	1848.4	1852.2	1856.1
32.5°	1444.5	1631.0	1750.3	1767.6	1790.7	1779.2	1777.2	1783.0	1798.4	1798.4	1802.3
35°	1306.0	1544.5	1698.4	1713.8	1731.1	1717.6	1725.3	1727.2	1736.9	1742.6	1740.7
37.5°	1154.1	1469.5	1644.5	1656.1	1669.6	1652.3	1663.7	1669.6	1677.2	1673.4	1673.4
40°	1019.4	1352.2	1581.0	1588.8	1600.2	1586.9	1598.3	1602.3	1606.1	1602.3	1600.2
42.5°	919.4	1223.3	1513.7	1523.4	1515.6	1525.3	1529.1	1536.9	1531.0	1523.4	1523.4
45°	842.4	1188.7	1440.7	1452.2	1440.7	1456.1	1461.8	1461.8	1444.5	1440.7	1438.7
47.5°	817.5	1119.5	1367.6	1367.6	1361.8	1381.0	1390.6	1377.2	1359.9	1354.1	1354.1
50°	815.6	1042.5	1267.6	1259.8	1286.8	1309.8	1300.3	1286.8	1273.3	1252.2	1252.2
52.5°	740.5	948.3	1138.7	1167.6	1209.8	1223.3	1207.9	1194.4	1171.4	1161.7	1154.1
55°	686.7	850.2	1021.3	1079.0	1123.3	1140.6	1111.7	1098.3	1063.6	1057.9	1054.1
57.5°	675.1	707.8	913.6	986.7	1040.6	1038.7	1021.3	996.3	967.5	961.7	959.8
60°	619.4	511.7	798.3	884.8	940.5	934.8	919.4	896.3	869.4	865.6	861.7
62.5°	561.6	371.2	667.4	765.6	844.3	842.4	829.0	794.3	775.1	765.6	757.8
65°	477.0	311.6	475.1	636.7	750.2	754.0	725.1	700.2	679.0	667.4	665.5
67.5°	363.6	253.9	321.2	530.9	659.7	655.9	619.4	607.8	580.9	575.1	563.6
70°	269.3	169.3	223.1	430.9	571.3	561.6	532.8	519.3	494.3	480.9	473.1
72.5°	223.1	136.5	163.5	334.7	480.9	469.3	444.3	429.0	407.7	396.3	388.5
75°	180.8	144.3	125.0	248.1	390.4	382.8	359.6	344.3	327.0	311.6	313.5
77.5°	132.7	134.6	100.0	182.7	309.6	298.2	284.7	265.5	257.7	242.3	242.3
80°	100.0	105.8	75.0	125.0	223.1	223.1	211.6	198.1	184.6	177.0	177.0
82.5°	67.3	67.3	55.7	78.9	151.9	146.2	138.5	134.6	127.0	123.1	123.1
85°	30.8	38.4	34.6	48.1	82.7	86.5	86.5	82.7	80.8	77.0	78.9
87.5°	9.7	17.3	21.1	27.0	42.4	44.3	46.2	46.2	46.2	48.1	48.1
90°	2.9	5.2	7.5	8.0	12.6	18.7	21.8	19.4	14.5	10.9	10.9
92.5°	11.5	31.0	50.6	55.4	77.9	107.9	122.9	107.7	77.3	54.6	52.4
95°	27.5	63.3	99.0	108.0	191.8	303.5	359.4	320.6	243.3	185.3	178.7
97.5°	47.7	79.3	110.8	118.6	258.3	444.6	537.8	513.3	464.4	427.7	415.2
100°	63.2	91.8	120.4	127.5	282.6	489.3	592.6	594.4	598.0	600.7	585.7
102.5°	76.4	103.1	129.7	136.4	293.7	503.3	608.1	639.3	701.5	748.3	735.5
105°	98.9	121.4	144.0	149.6	301.9	504.9	606.4	676.2	815.9	920.6	913.7
107.5°	121.8	142.8	164.0	169.2	303.4	482.4	571.9	669.3	864.1	1010.3	1011.9
110°	137.3	156.3	175.3	180.1	301.1	462.5	543.2	652.1	869.9	1033.2	1040.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	152.6	170.6	188.8	193.3	301.2	445.1	517.1	628.6	851.4	1018.6	1029.6
115°	175.5	192.3	209.0	213.2	304.0	425.1	485.7	593.1	807.8	968.9	984.1
117.5°	198.2	213.4	228.6	232.4	309.6	412.7	464.2	561.2	755.0	900.3	917.2
120°	211.4	225.7	240.1	243.6	314.2	408.4	455.5	544.1	721.2	854.0	870.4
122.5°	224.4	238.8	253.1	256.8	320.8	406.2	448.9	528.7	688.1	807.7	823.9
125°	244.2	257.4	270.5	273.8	329.8	404.5	441.8	509.5	644.9	746.5	761.5
127.5°	260.2	273.5	286.8	290.1	338.7	403.4	435.7	493.9	610.2	697.4	710.0
130°	268.8	283.2	297.5	301.0	345.2	404.0	433.5	485.3	588.8	666.4	678.1
132.5°	277.8	292.1	306.4	309.9	350.5	404.5	431.4	477.8	570.5	640.0	650.5
135°	291.0	304.0	317.0	320.3	356.2	404.1	428.0	466.8	544.4	602.7	611.6
137.5°	304.5	317.4	330.2	333.5	364.8	406.6	427.4	460.2	525.8	575.0	582.4
140°	315.7	327.5	339.5	342.4	370.1	407.0	425.4	453.7	510.4	553.0	559.8
142.5°	324.3	335.3	346.3	349.0	374.5	408.4	425.4	450.3	500.1	537.5	543.4
145°	337.6	347.1	356.7	359.1	380.2	408.4	422.6	442.9	483.6	514.1	518.6
147.5°	350.8	360.0	369.4	371.7	388.6	411.3	422.6	438.6	470.6	494.6	498.4
150°	359.4	367.8	376.2	378.3	393.0	412.7	422.6	436.1	463.2	483.4	486.4
152.5°	368.3	374.7	381.0	382.6	395.9	413.7	422.6	434.1	457.3	474.6	476.9
155°	381.4	386.1	390.9	392.1	402.2	415.8	422.6	431.7	450.2	463.9	465.5
157.5°	391.2	395.8	400.5	401.6	408.6	417.9	422.6	429.7	444.0	454.7	455.7
160°	397.9	401.4	405.1	405.9	411.5	418.8	422.6	428.7	440.9	450.1	450.7
162.5°	404.5	407.2	409.8	410.5	414.5	419.9	422.6	427.7	438.0	445.8	446.4
165°	411.7	414.0	416.5	417.1	418.9	421.3	422.6	426.3	433.6	439.2	439.8
167.5°	418.2	419.4	420.5	420.8	422.4	424.4	425.4	427.8	432.7	436.3	436.6
170°	422.6	423.7	424.8	425.1	425.2	425.3	425.4	427.8	432.7	436.3	436.3
172.5°	424.8	425.1	425.3	425.4	425.4	425.4	425.4	427.3	431.2	434.0	433.8
175°	428.0	428.0	428.0	428.0	427.1	426.0	425.4	426.7	429.1	430.9	430.9
177.5°	428.0	428.0	428.0	428.0	427.3	426.5	426.0	426.9	428.9	430.3	430.0
180°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0
2.5°	2085.0	2079.2	2085.0	2081.1	2083.0	2077.3	2060.0	2054.3	2060.0	2065.7	2065.7
5°	2110.0	2106.2	2110.0	2110.0	2108.1	2104.3	2085.0	2081.1	2085.0	2086.9	2083.0
7.5°	2117.7	2111.9	2117.7	2113.8	2113.8	2110.0	2090.8	2086.9	2088.9	2094.6	2088.9
10°	2117.7	2111.9	2117.7	2115.8	2113.8	2110.0	2090.8	2083.0	2083.0	2088.9	2083.0
12.5°	2108.1	2104.3	2108.1	2104.3	2104.3	2100.4	2081.1	2073.5	2075.4	2077.3	2069.6
15°	2092.7	2086.9	2092.7	2088.9	2090.8	2085.0	2063.8	2056.2	2056.2	2060.0	2046.5
17.5°	2069.6	2061.9	2069.6	2067.7	2065.7	2061.9	2042.7	2035.0	2033.0	2035.0	2025.4
20°	2042.7	2036.9	2042.7	2040.8	2040.8	2033.0	2013.8	2004.3	2004.3	2004.3	1994.6
22.5°	2000.3	1994.6	2000.3	2004.3	2004.3	2002.2	1984.9	1971.6	1967.6	1967.6	1956.2
25°	1952.2	1946.5	1952.2	1952.2	1950.3	1952.2	1946.5	1938.9	1933.0	1927.3	1915.7
27.5°	1906.1	1902.2	1906.1	1902.2	1906.1	1900.3	1898.4	1896.5	1888.8	1883.0	1867.6
30°	1860.0	1856.1	1860.0	1856.1	1852.2	1848.4	1838.8	1834.9	1842.7	1838.8	1813.8
32.5°	1802.3	1798.4	1802.3	1802.3	1798.4	1798.4	1783.0	1777.2	1779.2	1790.7	1767.6
35°	1742.6	1736.9	1742.6	1740.7	1742.6	1736.9	1727.2	1725.3	1717.6	1731.1	1713.8
37.5°	1673.4	1667.6	1673.4	1673.4	1673.4	1677.2	1669.6	1663.7	1652.3	1669.6	1656.1
40°	1602.3	1594.5	1602.3	1600.2	1602.3	1606.1	1602.3	1598.3	1586.9	1600.2	1588.8
42.5°	1521.5	1519.5	1521.5	1523.4	1523.4	1531.0	1536.9	1529.1	1525.3	1515.6	1523.4
45°	1434.9	1431.0	1434.9	1438.7	1440.7	1444.5	1461.8	1461.8	1456.1	1440.7	1452.2
47.5°	1342.5	1333.0	1342.5	1354.1	1354.1	1359.9	1377.2	1390.6	1381.0	1361.8	1367.6
50°	1244.4	1246.3	1244.4	1252.2	1252.2	1273.3	1286.8	1300.3	1309.8	1286.8	1259.8
52.5°	1148.3	1146.3	1148.3	1154.1	1161.7	1171.4	1194.4	1207.9	1223.3	1209.8	1167.6
55°	1052.1	1056.0	1052.1	1054.1	1057.9	1063.6	1098.3	1111.7	1140.6	1123.3	1079.0
57.5°	955.9	950.2	955.9	959.8	961.7	967.5	996.3	1021.3	1038.7	1040.6	986.7
60°	844.3	836.7	844.3	861.7	865.6	869.4	896.3	919.4	934.8	940.5	884.8
62.5°	746.3	732.9	746.3	757.8	765.6	775.1	794.3	829.0	842.4	844.3	765.6
65°	642.4	636.7	642.4	665.5	667.4	679.0	700.2	725.1	754.0	750.2	636.7
67.5°	548.2	548.2	548.2	563.6	575.1	580.9	607.8	619.4	655.9	659.7	530.9
70°	461.7	459.7	461.7	473.1	480.9	494.3	519.3	532.8	561.6	571.3	430.9
72.5°	379.0	377.0	379.0	388.5	396.3	407.7	429.0	444.3	469.3	480.9	334.7
75°	305.8	302.0	305.8	313.5	311.6	327.0	344.3	359.6	382.8	390.4	248.1
77.5°	234.7	234.7	234.7	242.3	242.3	257.7	265.5	284.7	298.2	309.6	182.7
80°	175.0	173.1	175.0	177.0	177.0	184.6	198.1	211.6	223.1	223.1	125.0
82.5°	123.1	119.2	123.1	123.1	123.1	127.0	134.6	138.5	146.2	151.9	78.9
85°	77.0	77.0	77.0	78.9	77.0	80.8	82.7	86.5	86.5	82.7	48.1
87.5°	50.0	48.1	50.0	48.1	48.1	46.2	46.2	46.2	44.3	42.4	27.0
90°	10.9	10.9	10.9	10.9	10.9	14.5	19.4	21.8	18.7	12.6	8.0
92.5°	43.8	35.1	43.8	52.4	54.6	77.3	107.7	122.9	107.9	77.9	55.4
95°	152.4	126.1	152.4	178.7	185.3	243.3	320.6	359.4	303.5	191.8	108.0
97.5°	365.2	315.1	365.2	415.2	427.7	464.4	513.3	537.8	444.6	258.3	118.6
100°	526.2	466.5	526.2	585.7	600.7	598.0	594.4	592.6	489.3	282.6	127.5
102.5°	684.4	633.4	684.4	735.5	748.3	701.5	639.3	608.1	503.3	293.7	136.4
105°	886.3	858.9	886.3	913.7	920.6	815.9	676.2	606.4	504.9	301.9	149.6
107.5°	1018.6	1025.2	1018.6	1011.9	1010.3	864.1	669.3	571.9	482.4	303.4	169.2
110°	1069.0	1097.6	1069.0	1040.4	1033.2	869.9	652.1	543.2	462.5	301.1	180.1



TEST NUMBER: P933809

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1073.5	1117.4	1073.5	1029.6	1018.6	851.4	628.6	517.1	445.1	301.2	193.3
115°	1045.0	1105.9	1045.0	984.1	968.9	807.8	593.1	485.7	425.1	304.0	213.2
117.5°	984.7	1052.2	984.7	917.2	900.3	755.0	561.2	464.2	412.7	309.6	232.4
120°	936.0	1001.6	936.0	870.4	854.0	721.2	544.1	455.5	408.4	314.2	243.6
122.5°	888.7	953.4	888.7	823.9	807.7	688.1	528.7	448.9	406.2	320.8	256.8
125°	821.0	880.7	821.0	761.5	746.5	644.9	509.5	441.8	404.5	329.8	273.8
127.5°	760.3	810.6	760.3	710.0	697.4	610.2	493.9	435.7	403.4	338.7	290.1
130°	724.6	771.0	724.6	678.1	666.4	588.8	485.3	433.5	404.0	345.2	301.0
132.5°	692.0	733.6	692.0	650.5	640.0	570.5	477.8	431.4	404.5	350.5	309.9
135°	647.5	683.3	647.5	611.6	602.7	544.4	466.8	428.0	404.1	356.2	320.3
137.5°	611.7	641.2	611.7	582.4	575.0	525.8	460.2	427.4	406.6	364.8	333.5
140°	587.3	614.7	587.3	559.8	553.0	510.4	453.7	425.4	407.0	370.1	342.4
142.5°	567.0	590.6	567.0	543.4	537.5	500.1	450.3	425.4	408.4	374.5	349.0
145°	536.5	554.4	536.5	518.6	514.1	483.6	442.9	422.6	408.4	380.2	359.1
147.5°	513.2	528.0	513.2	498.4	494.6	470.6	438.6	422.6	411.3	388.6	371.7
150°	498.5	510.4	498.5	486.4	483.4	463.2	436.1	422.6	412.7	393.0	378.3
152.5°	485.8	494.9	485.8	476.9	474.6	457.3	434.1	422.6	413.7	395.9	382.6
155°	471.4	477.4	471.4	465.5	463.9	450.2	431.7	422.6	415.8	402.2	392.1
157.5°	460.0	464.2	460.0	455.7	454.7	444.0	429.7	422.6	417.9	408.6	401.6
160°	453.1	455.5	453.1	450.7	450.1	440.9	428.7	422.6	418.8	411.5	405.9
162.5°	448.7	450.9	448.7	446.4	445.8	438.0	427.7	422.6	419.9	414.5	410.5
165°	442.2	444.6	442.2	439.8	439.2	433.6	426.3	422.6	421.3	418.9	417.1
167.5°	437.6	438.6	437.6	436.6	436.3	432.7	427.8	425.4	424.4	422.4	420.8
170°	436.3	436.3	436.3	436.3	436.3	432.7	427.8	425.4	425.3	425.2	425.1
172.5°	432.9	432.0	432.9	433.8	434.0	431.2	427.3	425.4	425.4	425.4	425.4
175°	430.9	430.9	430.9	430.9	430.9	429.1	426.7	425.4	426.0	427.1	428.0
177.5°	429.1	428.0	429.1	430.0	430.3	428.9	426.9	426.0	426.5	427.3	428.0
180°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0



TEST NUMBER: P933809

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0
2.5°	2061.9	2050.3	2050.3	2031.1	2023.5	2017.6	2008.1	1979.2	1971.6	1963.8	1975.4
5°	2079.2	2058.1	2042.7	2008.1	1979.2	1967.6	1931.1	1861.9	1815.7	1781.1	1761.9
7.5°	2083.0	2056.2	2027.3	1973.5	1904.2	1873.4	1761.9	1635.0	1600.2	1569.6	1550.2
10°	2079.2	2048.4	2008.1	1927.3	1763.8	1709.9	1598.3	1515.6	1494.5	1488.8	1494.5
12.5°	2065.7	2036.9	1981.1	1846.5	1617.6	1581.0	1515.6	1467.6	1463.7	1473.4	1525.3
15°	2042.7	2015.7	1950.3	1738.8	1536.9	1509.9	1463.7	1446.4	1467.6	1534.9	1690.7
17.5°	2019.6	1988.9	1908.1	1633.0	1475.3	1456.1	1423.3	1458.0	1577.2	1667.6	1719.6
20°	1988.9	1952.2	1860.0	1556.1	1431.0	1413.7	1398.3	1554.2	1644.5	1677.2	1706.1
22.5°	1952.2	1913.8	1794.6	1502.2	1384.9	1371.4	1381.0	1608.0	1644.5	1667.6	1692.6
25°	1904.2	1871.5	1717.6	1459.9	1348.3	1333.0	1369.5	1602.3	1623.4	1629.1	1679.1
27.5°	1860.0	1817.6	1636.9	1421.4	1304.1	1298.3	1379.1	1577.2	1592.6	1598.3	1652.3
30°	1806.1	1742.6	1546.4	1381.0	1257.9	1256.0	1381.0	1546.4	1542.6	1558.0	1611.8
32.5°	1750.3	1631.0	1444.5	1331.0	1213.6	1211.7	1367.6	1500.3	1496.4	1517.6	1558.0
35°	1698.4	1544.5	1306.0	1273.3	1157.9	1159.8	1334.9	1446.4	1448.3	1467.6	1492.6
37.5°	1644.5	1469.5	1154.1	1209.8	1104.1	1104.1	1290.6	1396.4	1392.6	1398.3	1432.9
40°	1581.0	1352.2	1019.4	1127.1	1054.1	1048.3	1236.8	1342.5	1329.1	1327.2	1375.2
42.5°	1513.7	1223.3	919.4	1017.5	996.3	988.6	1171.4	1277.1	1252.2	1257.9	1319.5
45°	1440.7	1188.7	842.4	859.7	936.7	931.0	1100.2	1202.2	1184.9	1200.3	1263.7
47.5°	1367.6	1119.5	817.5	713.6	873.2	871.3	1021.3	1129.0	1119.5	1134.9	1202.2
50°	1267.6	1042.5	815.6	611.6	802.1	809.7	927.1	1057.9	1057.9	1071.4	1142.5
52.5°	1138.7	948.3	740.5	553.9	719.4	742.4	844.3	996.3	1000.2	1013.6	1077.1
55°	1021.3	850.2	686.7	509.7	621.3	671.3	763.6	932.9	940.5	954.0	1011.7
57.5°	913.6	707.8	675.1	457.7	530.9	579.0	692.4	871.3	875.1	886.7	942.5
60°	798.3	511.7	619.4	402.0	452.0	488.5	627.0	798.3	811.6	819.4	867.5
62.5°	667.4	371.2	561.6	363.6	413.6	421.2	573.2	728.9	746.3	752.1	781.0
65°	475.1	311.6	477.0	330.9	373.1	375.0	515.5	657.8	673.2	682.8	704.0
67.5°	321.2	253.9	363.6	300.1	342.3	344.3	459.7	575.1	596.3	604.0	617.4
70°	223.1	169.3	269.3	267.4	307.7	311.6	400.1	500.1	519.3	525.1	532.8
72.5°	163.5	136.5	223.1	240.4	271.2	275.0	338.5	415.5	434.7	440.4	444.3
75°	125.0	144.3	180.8	209.7	230.8	232.7	277.0	338.5	352.0	355.8	357.7
77.5°	100.0	134.6	132.7	169.3	188.5	184.6	217.4	261.6	273.1	273.1	273.1
80°	75.0	105.8	100.0	121.2	138.5	134.6	155.8	186.6	190.4	194.3	192.3
82.5°	55.7	67.3	67.3	77.0	92.3	88.5	103.8	121.2	121.2	121.2	125.0
85°	34.6	38.4	30.8	40.4	51.9	50.0	57.7	65.4	67.3	67.3	63.5
87.5°	21.1	17.3	9.7	15.4	23.0	23.0	27.0	28.9	27.0	27.0	27.0
90°	7.5	5.2	2.9	5.2	7.5	8.0	12.6	18.7	21.8	19.4	14.5
92.5°	50.6	31.0	11.5	31.0	50.6	55.4	77.9	107.9	122.9	107.7	77.3
95°	99.0	63.3	27.5	63.3	99.0	108.0	191.8	303.5	359.4	320.6	243.3
97.5°	110.8	79.3	47.7	79.3	110.8	118.6	258.3	444.6	537.8	513.3	464.4
100°	120.4	91.8	63.2	91.8	120.4	127.5	282.6	489.3	592.6	594.4	598.0
102.5°	129.7	103.1	76.4	103.1	129.7	136.4	293.7	503.3	608.1	639.3	701.5
105°	144.0	121.4	98.9	121.4	144.0	149.6	301.9	504.9	606.4	676.2	815.9
107.5°	164.0	142.8	121.8	142.8	164.0	169.2	303.4	482.4	571.9	669.3	864.1
110°	175.3	156.3	137.3	156.3	175.3	180.1	301.1	462.5	543.2	652.1	869.9



TEST NUMBER: P933809

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	188.8	170.6	152.6	170.6	188.8	193.3	301.2	445.1	517.1	628.6	851.4
115°	209.0	192.3	175.5	192.3	209.0	213.2	304.0	425.1	485.7	593.1	807.8
117.5°	228.6	213.4	198.2	213.4	228.6	232.4	309.6	412.7	464.2	561.2	755.0
120°	240.1	225.7	211.4	225.7	240.1	243.6	314.2	408.4	455.5	544.1	721.2
122.5°	253.1	238.8	224.4	238.8	253.1	256.8	320.8	406.2	448.9	528.7	688.1
125°	270.5	257.4	244.2	257.4	270.5	273.8	329.8	404.5	441.8	509.5	644.9
127.5°	286.8	273.5	260.2	273.5	286.8	290.1	338.7	403.4	435.7	493.9	610.2
130°	297.5	283.2	268.8	283.2	297.5	301.0	345.2	404.0	433.5	485.3	588.8
132.5°	306.4	292.1	277.8	292.1	306.4	309.9	350.5	404.5	431.4	477.8	570.5
135°	317.0	304.0	291.0	304.0	317.0	320.3	356.2	404.1	428.0	466.8	544.4
137.5°	330.2	317.4	304.5	317.4	330.2	333.5	364.8	406.6	427.4	460.2	525.8
140°	339.5	327.5	315.7	327.5	339.5	342.4	370.1	407.0	425.4	453.7	510.4
142.5°	346.3	335.3	324.3	335.3	346.3	349.0	374.5	408.4	425.4	450.3	500.1
145°	356.7	347.1	337.6	347.1	356.7	359.1	380.2	408.4	422.6	442.9	483.6
147.5°	369.4	360.0	350.8	360.0	369.4	371.7	388.6	411.3	422.6	438.6	470.6
150°	376.2	367.8	359.4	367.8	376.2	378.3	393.0	412.7	422.6	436.1	463.2
152.5°	381.0	374.7	368.3	374.7	381.0	382.6	395.9	413.7	422.6	434.1	457.3
155°	390.9	386.1	381.4	386.1	390.9	392.1	402.2	415.8	422.6	431.7	450.2
157.5°	400.5	395.8	391.2	395.8	400.5	401.6	408.6	417.9	422.6	429.7	444.0
160°	405.1	401.4	397.9	401.4	405.1	405.9	411.5	418.8	422.6	428.7	440.9
162.5°	409.8	407.2	404.5	407.2	409.8	410.5	414.5	419.9	422.6	427.7	438.0
165°	416.5	414.0	411.7	414.0	416.5	417.1	418.9	421.3	422.6	426.3	433.6
167.5°	420.5	419.4	418.2	419.4	420.5	420.8	422.4	424.4	425.4	427.8	432.7
170°	424.8	423.7	422.6	423.7	424.8	425.1	425.2	425.3	425.4	427.8	432.7
172.5°	425.3	425.1	424.8	425.1	425.3	425.4	425.4	425.4	425.4	427.3	431.2
175°	428.0	428.0	428.0	428.0	428.0	428.0	427.1	426.0	425.4	426.7	429.1
177.5°	428.0	428.0	428.0	428.0	428.0	428.0	427.3	426.5	426.0	426.9	428.9
180°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0



TEST NUMBER: P933809

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0
2.5°	1961.9	1956.2	1963.8	1942.7	1963.8	1956.2	1961.9	1975.4	1963.8	1971.6	1979.2
5°	1721.5	1711.8	1681.1	1656.1	1681.1	1711.8	1721.5	1761.9	1781.1	1815.7	1861.9
7.5°	1538.8	1531.0	1523.4	1508.0	1523.4	1531.0	1538.8	1550.2	1569.6	1600.2	1635.0
10°	1498.3	1500.3	1511.8	1509.9	1511.8	1500.3	1498.3	1494.5	1488.8	1494.5	1515.6
12.5°	1602.3	1619.6	1683.0	1679.1	1683.0	1619.6	1602.3	1525.3	1473.4	1463.7	1467.6
15°	1721.5	1727.2	1740.7	1742.6	1740.7	1727.2	1721.5	1690.7	1534.9	1467.6	1446.4
17.5°	1733.0	1734.9	1744.5	1744.5	1744.5	1734.9	1733.0	1719.6	1667.6	1577.2	1458.0
20°	1723.4	1727.2	1746.5	1750.3	1746.5	1727.2	1723.4	1706.1	1677.2	1644.5	1554.2
22.5°	1719.6	1727.2	1742.6	1740.7	1742.6	1727.2	1719.6	1692.6	1667.6	1644.5	1608.0
25°	1700.3	1700.3	1702.3	1704.2	1702.3	1700.3	1700.3	1679.1	1629.1	1623.4	1602.3
27.5°	1659.9	1663.7	1675.3	1673.4	1675.3	1663.7	1659.9	1652.3	1598.3	1592.6	1577.2
30°	1623.4	1619.6	1609.9	1602.3	1609.9	1619.6	1623.4	1611.8	1558.0	1542.6	1546.4
32.5°	1561.8	1552.2	1542.6	1536.9	1542.6	1552.2	1561.8	1558.0	1517.6	1496.4	1500.3
35°	1488.8	1490.7	1488.8	1482.9	1488.8	1490.7	1488.8	1492.6	1467.6	1448.3	1446.4
37.5°	1436.8	1440.7	1438.7	1431.0	1438.7	1440.7	1436.8	1432.9	1398.3	1392.6	1396.4
40°	1382.9	1384.9	1382.9	1377.2	1382.9	1384.9	1382.9	1375.2	1327.2	1329.1	1342.5
42.5°	1331.0	1329.1	1323.3	1319.5	1323.3	1329.1	1331.0	1319.5	1257.9	1252.2	1277.1
45°	1271.4	1273.3	1261.7	1256.0	1261.7	1273.3	1271.4	1263.7	1200.3	1184.9	1202.2
47.5°	1211.7	1211.7	1202.2	1196.3	1202.2	1211.7	1211.7	1202.2	1134.9	1119.5	1129.0
50°	1148.3	1146.3	1132.9	1130.9	1132.9	1146.3	1148.3	1142.5	1071.4	1057.9	1057.9
52.5°	1075.2	1075.2	1077.1	1080.9	1077.1	1075.2	1075.2	1077.1	1013.6	1000.2	996.3
55°	1011.7	1013.6	1027.1	1031.0	1027.1	1013.6	1011.7	1011.7	954.0	940.5	932.9
57.5°	946.3	946.3	955.9	955.9	955.9	946.3	946.3	942.5	886.7	875.1	871.3
60°	871.3	875.1	882.9	881.0	882.9	875.1	871.3	867.5	819.4	811.6	798.3
62.5°	792.4	796.3	798.3	794.3	798.3	796.3	792.4	781.0	752.1	746.3	728.9
65°	709.7	713.6	715.5	711.6	715.5	713.6	709.7	704.0	682.8	673.2	657.8
67.5°	625.1	623.2	621.3	629.0	621.3	623.2	625.1	617.4	604.0	596.3	575.1
70°	538.5	538.5	536.6	540.5	536.6	538.5	538.5	532.8	525.1	519.3	500.1
72.5°	446.3	444.3	452.0	446.3	452.0	444.3	446.3	444.3	440.4	434.7	415.5
75°	355.8	359.6	355.8	361.6	355.8	359.6	355.8	357.7	355.8	352.0	338.5
77.5°	271.2	275.0	271.2	271.2	271.2	275.0	271.2	273.1	273.1	273.1	261.6
80°	192.3	190.4	190.4	188.5	190.4	190.4	192.3	192.3	194.3	190.4	186.6
82.5°	123.1	121.2	121.2	125.0	121.2	121.2	123.1	125.0	121.2	121.2	121.2
85°	67.3	69.2	65.4	65.4	65.4	69.2	67.3	63.5	67.3	67.3	65.4
87.5°	25.0	23.0	23.0	23.0	23.0	23.0	25.0	27.0	27.0	27.0	28.9
90°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	14.5	19.4	21.8	18.7
92.5°	54.6	52.4	43.8	35.1	43.8	52.4	54.6	77.3	107.7	122.9	107.9
95°	185.3	178.7	152.4	126.1	152.4	178.7	185.3	243.3	320.6	359.4	303.5
97.5°	427.7	415.2	365.2	315.1	365.2	415.2	427.7	464.4	513.3	537.8	444.6
100°	600.7	585.7	526.2	466.5	526.2	585.7	600.7	598.0	594.4	592.6	489.3
102.5°	748.3	735.5	684.4	633.4	684.4	735.5	748.3	701.5	639.3	608.1	503.3
105°	920.6	913.7	886.3	858.9	886.3	913.7	920.6	815.9	676.2	606.4	504.9
107.5°	1010.3	1011.9	1018.6	1025.2	1018.6	1011.9	1010.3	864.1	669.3	571.9	482.4
110°	1033.2	1040.4	1069.0	1097.6	1069.0	1040.4	1033.2	869.9	652.1	543.2	462.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1018.6	1029.6	1073.5	1117.4	1073.5	1029.6	1018.6	851.4	628.6	517.1	445.1
115°	968.9	984.1	1045.0	1105.9	1045.0	984.1	968.9	807.8	593.1	485.7	425.1
117.5°	900.3	917.2	984.7	1052.2	984.7	917.2	900.3	755.0	561.2	464.2	412.7
120°	854.0	870.4	936.0	1001.6	936.0	870.4	854.0	721.2	544.1	455.5	408.4
122.5°	807.7	823.9	888.7	953.4	888.7	823.9	807.7	688.1	528.7	448.9	406.2
125°	746.5	761.5	821.0	880.7	821.0	761.5	746.5	644.9	509.5	441.8	404.5
127.5°	697.4	710.0	760.3	810.6	760.3	710.0	697.4	610.2	493.9	435.7	403.4
130°	666.4	678.1	724.6	771.0	724.6	678.1	666.4	588.8	485.3	433.5	404.0
132.5°	640.0	650.5	692.0	733.6	692.0	650.5	640.0	570.5	477.8	431.4	404.5
135°	602.7	611.6	647.5	683.3	647.5	611.6	602.7	544.4	466.8	428.0	404.1
137.5°	575.0	582.4	611.7	641.2	611.7	582.4	575.0	525.8	460.2	427.4	406.6
140°	553.0	559.8	587.3	614.7	587.3	559.8	553.0	510.4	453.7	425.4	407.0
142.5°	537.5	543.4	567.0	590.6	567.0	543.4	537.5	500.1	450.3	425.4	408.4
145°	514.1	518.6	536.5	554.4	536.5	518.6	514.1	483.6	442.9	422.6	408.4
147.5°	494.6	498.4	513.2	528.0	513.2	498.4	494.6	470.6	438.6	422.6	411.3
150°	483.4	486.4	498.5	510.4	498.5	486.4	483.4	463.2	436.1	422.6	412.7
152.5°	474.6	476.9	485.8	494.9	485.8	476.9	474.6	457.3	434.1	422.6	413.7
155°	463.9	465.5	471.4	477.4	471.4	465.5	463.9	450.2	431.7	422.6	415.8
157.5°	454.7	455.7	460.0	464.2	460.0	455.7	454.7	444.0	429.7	422.6	417.9
160°	450.1	450.7	453.1	455.5	453.1	450.7	450.1	440.9	428.7	422.6	418.8
162.5°	445.8	446.4	448.7	450.9	448.7	446.4	445.8	438.0	427.7	422.6	419.9
165°	439.2	439.8	442.2	444.6	442.2	439.8	439.2	433.6	426.3	422.6	421.3
167.5°	436.3	436.6	437.6	438.6	437.6	436.6	436.3	432.7	427.8	425.4	424.4
170°	436.3	436.3	436.3	436.3	436.3	436.3	436.3	432.7	427.8	425.4	425.3
172.5°	434.0	433.8	432.9	432.0	432.9	433.8	434.0	431.2	427.3	425.4	425.4
175°	430.9	430.9	430.9	430.9	430.9	430.9	430.9	429.1	426.7	425.4	426.0
177.5°	430.3	430.0	429.1	428.0	429.1	430.0	430.3	428.9	426.9	426.0	426.5
180°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2033.0	2033.0	2033.0	2033.0	2033.0
2.5°	2008.1	2017.6	2023.5	2031.1	2050.3
5°	1931.1	1967.6	1979.2	2008.1	2042.7
7.5°	1761.9	1873.4	1904.2	1973.5	2027.3
10°	1598.3	1709.9	1763.8	1927.3	2008.1
12.5°	1515.6	1581.0	1617.6	1846.5	1981.1
15°	1463.7	1509.9	1536.9	1738.8	1950.3
17.5°	1423.3	1456.1	1475.3	1633.0	1908.1
20°	1398.3	1413.7	1431.0	1556.1	1860.0
22.5°	1381.0	1371.4	1384.9	1502.2	1794.6
25°	1369.5	1333.0	1348.3	1459.9	1717.6
27.5°	1379.1	1298.3	1304.1	1421.4	1636.9
30°	1381.0	1256.0	1257.9	1381.0	1546.4
32.5°	1367.6	1211.7	1213.6	1331.0	1444.5
35°	1334.9	1159.8	1157.9	1273.3	1306.0
37.5°	1290.6	1104.1	1104.1	1209.8	1154.1
40°	1236.8	1048.3	1054.1	1127.1	1019.4
42.5°	1171.4	988.6	996.3	1017.5	919.4
45°	1100.2	931.0	936.7	859.7	842.4
47.5°	1021.3	871.3	873.2	713.6	817.5
50°	927.1	809.7	802.1	611.6	815.6
52.5°	844.3	742.4	719.4	553.9	740.5
55°	763.6	671.3	621.3	509.7	686.7
57.5°	692.4	579.0	530.9	457.7	675.1
60°	627.0	488.5	452.0	402.0	619.4
62.5°	573.2	421.2	413.6	363.6	561.6
65°	515.5	375.0	373.1	330.9	477.0
67.5°	459.7	344.3	342.3	300.1	363.6
70°	400.1	311.6	307.7	267.4	269.3
72.5°	338.5	275.0	271.2	240.4	223.1
75°	277.0	232.7	230.8	209.7	180.8
77.5°	217.4	184.6	188.5	169.3	132.7
80°	155.8	134.6	138.5	121.2	100.0
82.5°	103.8	88.5	92.3	77.0	67.3
85°	57.7	50.0	51.9	40.4	30.8
87.5°	27.0	23.0	23.0	15.4	9.7
90°	12.6	8.0	7.5	5.2	2.9
92.5°	77.9	55.4	50.6	31.0	11.5
95°	191.8	108.0	99.0	63.3	27.5
97.5°	258.3	118.6	110.8	79.3	47.7
100°	282.6	127.5	120.4	91.8	63.2
102.5°	293.7	136.4	129.7	103.1	76.4
105°	301.9	149.6	144.0	121.4	98.9
107.5°	303.4	169.2	164.0	142.8	121.8
110°	301.1	180.1	175.3	156.3	137.3



TEST NUMBER: P933809

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	301.2	193.3	188.8	170.6	152.6
115°	304.0	213.2	209.0	192.3	175.5
117.5°	309.6	232.4	228.6	213.4	198.2
120°	314.2	243.6	240.1	225.7	211.4
122.5°	320.8	256.8	253.1	238.8	224.4
125°	329.8	273.8	270.5	257.4	244.2
127.5°	338.7	290.1	286.8	273.5	260.2
130°	345.2	301.0	297.5	283.2	268.8
132.5°	350.5	309.9	306.4	292.1	277.8
135°	356.2	320.3	317.0	304.0	291.0
137.5°	364.8	333.5	330.2	317.4	304.5
140°	370.1	342.4	339.5	327.5	315.7
142.5°	374.5	349.0	346.3	335.3	324.3
145°	380.2	359.1	356.7	347.1	337.6
147.5°	388.6	371.7	369.4	360.0	350.8
150°	393.0	378.3	376.2	367.8	359.4
152.5°	395.9	382.6	381.0	374.7	368.3
155°	402.2	392.1	390.9	386.1	381.4
157.5°	408.6	401.6	400.5	395.8	391.2
160°	411.5	405.9	405.1	401.4	397.9
162.5°	414.5	410.5	409.8	407.2	404.5
165°	418.9	417.1	416.5	414.0	411.7
167.5°	422.4	420.8	420.5	419.4	418.2
170°	425.2	425.1	424.8	423.7	422.6
172.5°	425.4	425.4	425.3	425.1	424.8
175°	427.1	428.0	428.0	428.0	428.0
177.5°	427.3	428.0	428.0	428.0	428.0
180°	428.0	428.0	428.0	428.0	428.0



TEST NUMBER: P933809
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.52	13.54	13.33	14.38	15.41	15.37	16.39	16.18	17.23	18.26
	3H	13.01	13.93	13.84	14.77	15.83	16.74	17.65	17.56	18.50	19.56
	4H	13.21	14.07	14.05	14.92	15.99	17.19	18.06	18.03	18.91	19.98
	6H	13.34	14.13	14.19	14.99	16.08	17.49	18.29	18.35	19.15	20.23
	8H	13.34	14.10	14.20	14.98	16.06	17.57	18.33	18.44	19.21	20.29
	12H	13.32	14.04	14.19	14.91	16.02	17.62	18.34	18.49	19.22	20.33
4H	2H	13.58	14.44	14.42	15.29	16.36	15.80	16.66	16.65	17.52	18.59
	3H	14.62	15.34	15.48	16.23	17.31	17.33	18.05	18.19	18.93	20.02
	4H	14.90	15.56	15.77	16.44	17.55	17.87	18.52	18.74	19.40	20.52
	6H	15.04	15.60	15.92	16.51	17.62	18.25	18.81	19.13	19.72	20.83
	8H	15.05	15.58	15.94	16.48	17.60	18.36	18.89	19.25	19.79	20.92
	12H	15.02	15.50	15.93	16.42	17.55	18.43	18.91	19.34	19.82	20.96
8H	4H	15.37	15.90	16.26	16.80	17.93	18.00	18.53	18.89	19.43	20.56
	6H	15.64	16.08	16.56	17.02	18.15	18.45	18.89	19.37	19.83	20.96
	8H	15.69	16.07	16.61	17.01	18.15	18.61	19.00	19.54	19.93	21.08
	12H	15.68	16.02	16.61	16.94	18.14	18.72	19.06	19.65	19.99	21.18
12H	4H	15.39	15.86	16.30	16.78	17.92	17.98	18.45	18.88	19.37	20.51
	6H	15.70	16.09	16.63	17.03	18.17	18.45	18.84	19.38	19.77	20.92
	8H	15.78	16.12	16.71	17.05	18.24	18.62	18.96	19.55	19.89	21.09