

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: P933901

Luminaire Tested: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933901
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-B40-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

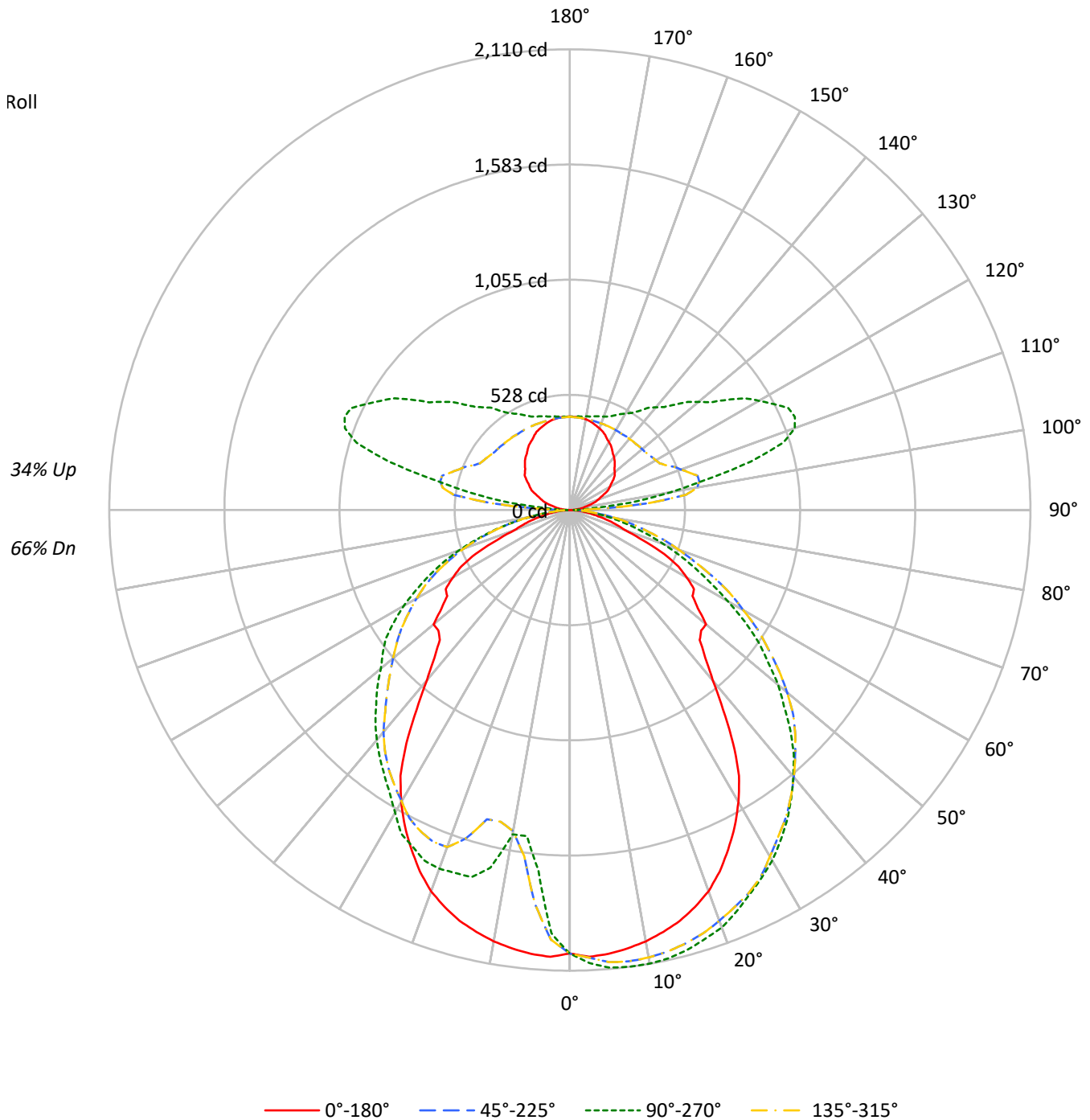
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8039.2 lumens
Efficiency: N/A
Efficacy: 121.8 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





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6282	6282	6282	6282
5°	6331	6341	6331	4986
10°	6291	6246	6291	4466
15°	6225	6111	6225	5103
20°	6097	5951	6097	5114
25°	5833	5717	5833	5005
30°	5491	5523	5491	4768
35°	4898	5277	4898	4506
40°	4083	4988	4083	4308
45°	3651	4650	3651	4081
50°	3882	4246	3882	3853
55°	3656	3812	3656	3721
60°	3773	3237	3773	3408
65°	3426	2676	3426	2991
70°	2378	2133	2378	2508
75°	2093	1577	2093	1888
80°	1699	1043	1699	1135
85°	998	552	998	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5592 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	2.3
10°-20°	520.5	6.5
20°-30°	804.6	10.0
30°-40°	960.6	11.9
40°-50°	966.2	12.0
50°-60°	840.7	10.5
60°-70°	596.1	7.4
70°-80°	315.4	3.9
80°-90°	80.2	1.0
90°-100°	208.4	2.6
100°-110°	547.9	6.8
110°-120°	568.1	7.1
120°-130°	455.7	5.7
130°-140°	357.6	4.4
140°-150°	274.5	3.4
150°-160°	197.7	2.5
160°-170°	120.9	1.5
170°-180°	40.9	0.5
0°-30°	1508.5	18.8
0°-40°	2469.0	30.7
0°-60°	4275.9	53.2
0°-90°	5267.5	65.5
90°-120°	1324.5	16.5
90°-150°	2412.2	30.0
90°-180°	2772.0	34.5
0°-180°	8039.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2031	2031	2031	2031	2031	
5°	2040	2104	2040	1654	2040	194
15°	1948	2085	1948	1741	1948	548
25°	1716	1944	1716	1702	1716	788
35°	1305	1735	1305	1481	1305	807
45°	842	1430	842	1255	842	674
55°	686	1055	686	1030	686	630
65°	476	636	476	711	476	455
75°	181	302	181	361	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	858	99	858	99	105
115°	175	1105	175	1105	175	173
125°	244	880	244	880	244	217
135°	291	683	291	683	291	225
145°	337	554	337	554	337	211
155°	381	477	381	477	381	175
165°	411	444	411	444	411	116
175°	428	430	428	430	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°	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	2048.2	2048.2	2059.7	2063.6	2063.6	2057.8	2052.1	2057.8	2075.1	2080.8	2078.9
5°	2040.5	2055.9	2077.0	2080.8	2084.8	2082.9	2078.9	2082.9	2102.1	2105.9	2107.8
7.5°	2025.2	2054.0	2080.8	2086.7	2092.4	2086.7	2084.8	2088.6	2107.8	2111.6	2111.6
10°	2006.0	2046.3	2077.0	2080.8	2086.7	2080.8	2080.8	2088.6	2107.8	2111.6	2113.6
12.5°	1979.0	2034.8	2063.6	2067.5	2075.1	2073.2	2071.3	2078.9	2098.2	2102.1	2102.1
15°	1948.3	2013.6	2040.5	2044.4	2057.8	2054.0	2054.0	2061.7	2082.9	2088.6	2086.7
17.5°	1906.1	1986.8	2017.5	2023.3	2032.9	2030.9	2032.9	2040.5	2059.7	2063.6	2065.6
20°	1858.0	1950.2	1986.8	1992.5	2002.2	2002.2	2002.2	2011.7	2030.9	2038.6	2038.6
22.5°	1792.7	1911.8	1950.2	1954.1	1965.6	1965.6	1969.5	1982.9	2000.2	2002.2	2002.2
25°	1715.8	1869.5	1902.2	1913.7	1925.3	1931.0	1936.8	1944.5	1950.2	1948.3	1950.2
27.5°	1635.2	1815.7	1858.0	1865.7	1881.1	1886.8	1894.5	1896.4	1898.3	1904.1	1900.3
30°	1544.8	1740.8	1804.2	1811.9	1836.8	1840.8	1833.0	1836.8	1846.5	1850.3	1854.1
32.5°	1443.0	1629.3	1748.5	1765.8	1788.8	1777.4	1775.3	1781.2	1796.5	1796.5	1800.4
35°	1304.6	1542.9	1696.7	1712.0	1729.3	1715.8	1723.5	1725.4	1735.0	1740.8	1738.9
37.5°	1152.9	1467.9	1642.8	1654.3	1667.8	1650.5	1662.0	1667.8	1675.5	1671.6	1671.6
40°	1018.3	1350.8	1579.4	1587.1	1598.6	1585.2	1596.7	1600.6	1604.4	1600.6	1598.6
42.5°	918.4	1222.0	1512.1	1521.8	1514.1	1523.7	1527.5	1535.3	1529.4	1521.8	1521.8
45°	841.5	1187.4	1439.2	1450.6	1439.2	1454.6	1460.3	1460.3	1443.0	1439.2	1437.2
47.5°	816.6	1118.3	1366.1	1366.1	1360.4	1379.6	1389.1	1375.8	1358.5	1352.7	1352.7
50°	814.7	1041.4	1266.2	1258.5	1285.4	1308.4	1298.9	1285.4	1272.0	1250.9	1250.9
52.5°	739.7	947.3	1137.5	1166.3	1208.6	1222.0	1206.6	1193.2	1170.2	1160.5	1152.9
55°	686.0	849.3	1020.2	1077.9	1122.1	1139.4	1110.6	1097.1	1062.5	1056.8	1053.0
57.5°	674.4	707.1	912.7	985.7	1039.5	1037.6	1020.2	995.3	966.5	960.7	958.8
60°	618.7	511.1	797.4	883.9	939.5	933.8	918.4	895.4	868.5	864.7	860.8
62.5°	561.1	370.8	666.7	764.8	843.5	841.5	828.2	793.5	774.3	764.8	757.0
65°	476.5	311.2	474.6	636.0	749.4	753.2	724.4	699.4	678.2	666.7	664.8
67.5°	363.2	253.6	320.9	530.3	659.0	655.2	618.7	607.2	580.3	574.5	563.0
70°	269.0	169.1	222.9	430.4	570.7	561.1	532.2	518.8	493.8	480.4	472.6
72.5°	222.9	136.4	163.3	334.3	480.4	468.8	443.9	428.5	407.3	395.8	388.1
75°	180.6	144.1	124.9	247.8	390.0	382.4	359.3	343.9	326.6	311.2	313.1
77.5°	132.6	134.5	99.9	182.5	309.3	297.9	284.4	265.2	257.5	242.1	242.1
80°	99.9	105.7	75.0	124.9	222.9	222.9	211.3	197.9	184.4	176.8	176.8
82.5°	67.2	67.2	55.7	78.8	151.7	146.0	138.4	134.5	126.8	123.0	123.0
85°	30.8	38.4	34.6	48.0	82.6	86.4	86.4	82.6	80.7	76.9	78.8
87.5°	9.6	17.3	21.1	26.9	42.3	44.2	46.1	46.1	46.1	48.0	48.0
90°	2.9	5.2	7.4	8.0	12.6	18.7	21.8	19.4	14.5	10.9	10.9
92.5°	11.5	30.9	50.5	55.4	77.8	107.8	122.8	107.6	77.3	54.5	52.3
95°	27.5	63.2	98.9	107.9	191.6	303.2	359.0	320.3	243.0	185.1	178.5
97.5°	47.7	79.2	110.7	118.5	258.0	444.2	537.2	512.7	463.9	427.3	414.8
100°	63.1	91.7	120.2	127.4	282.3	488.8	592.0	593.8	597.4	600.0	585.1
102.5°	76.3	102.9	129.6	136.3	293.4	502.8	607.5	638.6	700.8	747.5	734.7
105°	98.7	121.3	143.8	149.5	301.6	504.3	605.8	675.5	815.0	919.7	912.8
107.5°	121.7	142.7	163.8	169.0	303.1	481.9	571.3	668.6	863.2	1009.2	1010.9
110°	137.1	156.1	175.1	179.9	300.8	462.0	542.6	651.4	869.0	1032.2	1039.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	152.4	170.5	188.6	193.1	300.9	444.6	516.6	627.9	850.5	1017.6	1028.5
115°	175.3	192.1	208.8	213.0	303.7	424.7	485.2	592.5	807.0	967.9	983.1
117.5°	198.0	213.2	228.3	232.2	309.3	412.3	463.7	560.6	754.2	899.3	916.2
120°	211.2	225.5	239.8	243.3	313.9	408.0	455.1	543.5	720.5	853.1	869.5
122.5°	224.1	238.6	252.9	256.5	320.5	405.8	448.5	528.1	687.4	806.9	823.0
125°	243.9	257.1	270.3	273.5	329.5	404.1	441.3	508.9	644.2	745.8	760.7
127.5°	260.0	273.2	286.5	289.8	338.4	403.0	435.3	493.4	609.6	696.7	709.3
130°	268.5	282.9	297.2	300.7	344.9	403.6	433.0	484.8	588.2	665.7	677.4
132.5°	277.5	291.8	306.1	309.6	350.1	404.1	431.0	477.3	569.9	639.4	649.8
135°	290.7	303.7	316.7	319.9	355.8	403.7	427.6	466.3	543.9	602.0	611.0
137.5°	304.2	317.1	329.9	333.1	364.4	406.2	427.0	459.7	525.2	574.4	581.8
140°	315.3	327.2	339.1	342.1	369.7	406.5	425.0	453.2	509.9	552.4	559.2
142.5°	323.9	334.9	345.9	348.7	374.1	408.0	425.0	449.8	499.6	536.9	542.8
145°	337.2	346.8	356.3	358.7	379.8	408.0	422.1	442.5	483.1	513.6	518.1
147.5°	350.4	359.7	369.0	371.3	388.2	410.8	422.1	438.2	470.1	494.1	497.8
150°	359.0	367.4	375.8	377.9	392.6	412.3	422.1	435.7	462.7	482.9	485.9
152.5°	367.9	374.3	380.6	382.2	395.5	413.2	422.1	433.7	456.8	474.1	476.4
155°	381.0	385.7	390.5	391.6	401.8	415.3	422.1	431.3	449.7	463.5	465.0
157.5°	390.8	395.4	400.0	401.2	408.2	417.4	422.1	429.3	443.5	454.2	455.2
160°	397.5	401.0	404.6	405.5	411.0	418.4	422.1	428.2	440.4	449.6	450.2
162.5°	404.1	406.7	409.4	410.1	414.1	419.4	422.1	427.3	437.6	445.3	445.9
165°	411.2	413.6	416.1	416.7	418.5	420.9	422.1	425.8	433.2	438.7	439.3
167.5°	417.8	419.0	420.1	420.4	421.9	423.9	425.0	427.4	432.2	435.9	436.1
170°	422.1	423.3	424.4	424.7	424.8	424.9	425.0	427.4	432.2	435.9	435.9
172.5°	424.4	424.7	424.9	425.0	425.0	425.0	425.0	426.9	430.7	433.6	433.4
175°	427.6	427.6	427.6	427.6	426.7	425.5	425.0	426.2	428.6	430.4	430.4
177.5°	427.6	427.6	427.6	427.6	426.9	426.0	425.5	426.5	428.4	429.8	429.6
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	2082.9	2077.0	2082.9	2078.9	2080.8	2075.1	2057.8	2052.1	2057.8	2063.6	2063.6
5°	2107.8	2104.0	2107.8	2107.8	2105.9	2102.1	2082.9	2078.9	2082.9	2084.8	2080.8
7.5°	2115.5	2109.7	2115.5	2111.6	2111.6	2107.8	2088.6	2084.8	2086.7	2092.4	2086.7
10°	2115.5	2109.7	2115.5	2113.6	2111.6	2107.8	2088.6	2080.8	2080.8	2086.7	2080.8
12.5°	2105.9	2102.1	2105.9	2102.1	2102.1	2098.2	2078.9	2071.3	2073.2	2075.1	2067.5
15°	2090.5	2084.8	2090.5	2086.7	2088.6	2082.9	2061.7	2054.0	2054.0	2057.8	2044.4
17.5°	2067.5	2059.7	2067.5	2065.6	2063.6	2059.7	2040.5	2032.9	2030.9	2032.9	2023.3
20°	2040.5	2034.8	2040.5	2038.6	2038.6	2030.9	2011.7	2002.2	2002.2	2002.2	1992.5
22.5°	1998.2	1992.5	1998.2	2002.2	2002.2	2000.2	1982.9	1969.5	1965.6	1965.6	1954.1
25°	1950.2	1944.5	1950.2	1950.2	1948.3	1950.2	1944.5	1936.8	1931.0	1925.3	1913.7
27.5°	1904.1	1900.3	1904.1	1900.3	1904.1	1898.3	1896.4	1894.5	1886.8	1881.1	1865.7
30°	1858.0	1854.1	1858.0	1854.1	1850.3	1846.5	1836.8	1833.0	1840.8	1836.8	1811.9
32.5°	1800.4	1796.5	1800.4	1800.4	1796.5	1796.5	1781.2	1775.3	1777.4	1788.8	1765.8
35°	1740.8	1735.0	1740.8	1738.9	1740.8	1735.0	1725.4	1723.5	1715.8	1729.3	1712.0
37.5°	1671.6	1665.9	1671.6	1671.6	1671.6	1675.5	1667.8	1662.0	1650.5	1667.8	1654.3
40°	1600.6	1592.8	1600.6	1598.6	1600.6	1604.4	1600.6	1596.7	1585.2	1598.6	1587.1
42.5°	1519.9	1517.9	1519.9	1521.8	1521.8	1529.4	1535.3	1527.5	1523.7	1514.1	1521.8
45°	1433.4	1429.5	1433.4	1437.2	1439.2	1443.0	1460.3	1460.3	1454.6	1439.2	1450.6
47.5°	1341.1	1331.6	1341.1	1352.7	1352.7	1358.5	1375.8	1389.1	1379.6	1360.4	1366.1
50°	1243.1	1245.0	1243.1	1250.9	1250.9	1272.0	1285.4	1298.9	1308.4	1285.4	1258.5
52.5°	1147.1	1145.1	1147.1	1152.9	1160.5	1170.2	1193.2	1206.6	1222.0	1208.6	1166.3
55°	1051.0	1054.9	1051.0	1053.0	1056.8	1062.5	1097.1	1110.6	1139.4	1122.1	1077.9
57.5°	954.9	949.2	954.9	958.8	960.7	966.5	995.3	1020.2	1037.6	1039.5	985.7
60°	843.5	835.8	843.5	860.8	864.7	868.5	895.4	918.4	933.8	939.5	883.9
62.5°	745.5	732.1	745.5	757.0	764.8	774.3	793.5	828.2	841.5	843.5	764.8
65°	641.8	636.0	641.8	664.8	666.7	678.2	699.4	724.4	753.2	749.4	636.0
67.5°	547.6	547.6	547.6	563.0	574.5	580.3	607.2	618.7	655.2	659.0	530.3
70°	461.2	459.3	461.2	472.6	480.4	493.8	518.8	532.2	561.1	570.7	430.4
72.5°	378.6	376.6	378.6	388.1	395.8	407.3	428.5	443.9	468.8	480.4	334.3
75°	305.5	301.7	305.5	313.1	311.2	326.6	343.9	359.3	382.4	390.0	247.8
77.5°	234.5	234.5	234.5	242.1	242.1	257.5	265.2	284.4	297.9	309.3	182.5
80°	174.9	173.0	174.9	176.8	176.8	184.4	197.9	211.3	222.9	222.9	124.9
82.5°	123.0	119.1	123.0	123.0	123.0	126.8	134.5	138.4	146.0	151.7	78.8
85°	76.9	76.9	76.9	78.8	76.9	80.7	82.6	86.4	86.4	82.6	48.0
87.5°	49.9	48.0	49.9	48.0	48.0	46.1	46.1	46.1	44.2	42.3	26.9
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°	43.7	35.0	43.7	52.3	54.5	77.3	107.6	122.8	107.8	77.8	55.4
95°	152.2	126.0	152.2	178.5	185.1	243.0	320.3	359.0	303.2	191.6	107.9
97.5°	364.8	314.8	364.8	414.8	427.3	463.9	512.7	537.2	444.2	258.0	118.5
100°	525.6	466.0	525.6	585.1	600.0	597.4	593.8	592.0	488.8	282.3	127.4
102.5°	683.7	632.7	683.7	734.7	747.5	700.8	638.6	607.5	502.8	293.4	136.3
105°	885.4	858.0	885.4	912.8	919.7	815.0	675.5	605.8	504.3	301.6	149.5
107.5°	1017.6	1024.1	1017.6	1010.9	1009.2	863.2	668.6	571.3	481.9	303.1	169.0
110°	1067.9	1096.4	1067.9	1039.3	1032.2	869.0	651.4	542.6	462.0	300.8	179.9



TEST NUMBER: P933901

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1072.4	1116.2	1072.4	1028.5	1017.6	850.5	627.9	516.6	444.6	300.9	193.1
115°	1043.9	1104.7	1043.9	983.1	967.9	807.0	592.5	485.2	424.7	303.7	213.0
117.5°	983.6	1051.1	983.6	916.2	899.3	754.2	560.6	463.7	412.3	309.3	232.2
120°	935.0	1000.6	935.0	869.5	853.1	720.5	543.5	455.1	408.0	313.9	243.3
122.5°	887.8	952.4	887.8	823.0	806.9	687.4	528.1	448.5	405.8	320.5	256.5
125°	820.2	879.7	820.2	760.7	745.8	644.2	508.9	441.3	404.1	329.5	273.5
127.5°	759.5	809.7	759.5	709.3	696.7	609.6	493.4	435.3	403.0	338.4	289.8
130°	723.8	770.2	723.8	677.4	665.7	588.2	484.8	433.0	403.6	344.9	300.7
132.5°	691.3	732.9	691.3	649.8	639.4	569.9	477.3	431.0	404.1	350.1	309.6
135°	646.8	682.6	646.8	611.0	602.0	543.9	466.3	427.6	403.7	355.8	319.9
137.5°	611.1	640.5	611.1	581.8	574.4	525.2	459.7	427.0	406.2	364.4	333.1
140°	586.7	614.1	586.7	559.2	552.4	509.9	453.2	425.0	406.5	369.7	342.1
142.5°	566.4	590.0	566.4	542.8	536.9	499.6	449.8	425.0	408.0	374.1	348.7
145°	535.9	553.8	535.9	518.1	513.6	483.1	442.5	422.1	408.0	379.8	358.7
147.5°	512.6	527.4	512.6	497.8	494.1	470.1	438.2	422.1	410.8	388.2	371.3
150°	497.9	509.9	497.9	485.9	482.9	462.7	435.7	422.1	412.3	392.6	377.9
152.5°	485.3	494.4	485.3	476.4	474.1	456.8	433.7	422.1	413.2	395.5	382.2
155°	470.9	476.9	470.9	465.0	463.5	449.7	431.3	422.1	415.3	401.8	391.6
157.5°	459.5	463.7	459.5	455.2	454.2	443.5	429.3	422.1	417.4	408.2	401.2
160°	452.7	455.1	452.7	450.2	449.6	440.4	428.2	422.1	418.4	411.0	405.5
162.5°	448.2	450.5	448.2	445.9	445.3	437.6	427.3	422.1	419.4	414.1	410.1
165°	441.8	444.2	441.8	439.3	438.7	433.2	425.8	422.1	420.9	418.5	416.7
167.5°	437.1	438.2	437.1	436.1	435.9	432.2	427.4	425.0	423.9	421.9	420.4
170°	435.9	435.9	435.9	435.9	435.9	432.2	427.4	425.0	424.9	424.8	424.7
172.5°	432.4	431.6	432.4	433.4	433.6	430.7	426.9	425.0	425.0	425.0	425.0
175°	430.4	430.4	430.4	430.4	430.4	428.6	426.2	425.0	425.5	426.7	427.6
177.5°	428.6	427.6	428.6	429.6	429.8	428.4	426.5	425.5	426.0	426.9	427.6
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6



TEST NUMBER: P933901

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	2059.7	2048.2	2048.2	2029.0	2021.4	2015.5	2006.0	1977.1	1969.5	1961.8	1973.3
5°	2077.0	2055.9	2040.5	2006.0	1977.1	1965.6	1929.1	1860.0	1813.8	1779.3	1760.1
7.5°	2080.8	2054.0	2025.2	1971.4	1902.2	1871.4	1760.1	1633.2	1598.6	1567.9	1548.6
10°	2077.0	2046.3	2006.0	1925.3	1762.0	1708.1	1596.7	1514.1	1493.0	1487.2	1493.0
12.5°	2063.6	2034.8	1979.0	1844.6	1616.0	1579.4	1514.1	1466.0	1462.2	1471.8	1523.7
15°	2040.5	2013.6	1948.3	1737.0	1535.3	1508.3	1462.2	1444.9	1466.0	1533.3	1688.9
17.5°	2017.5	1986.8	1906.1	1631.3	1473.8	1454.6	1421.8	1456.5	1575.6	1665.9	1717.8
20°	1986.8	1950.2	1858.0	1554.5	1429.5	1412.3	1396.9	1552.5	1642.8	1675.5	1704.3
22.5°	1950.2	1911.8	1792.7	1500.6	1383.4	1369.9	1379.6	1606.3	1642.8	1665.9	1690.8
25°	1902.2	1869.5	1715.8	1458.4	1346.9	1331.6	1368.0	1600.6	1621.7	1627.4	1677.4
27.5°	1858.0	1815.7	1635.2	1419.9	1302.7	1297.0	1377.7	1575.6	1590.9	1596.7	1650.5
30°	1804.2	1740.8	1544.8	1379.6	1256.6	1254.7	1379.6	1544.8	1541.0	1556.4	1610.1
32.5°	1748.5	1629.3	1443.0	1329.6	1212.4	1210.5	1366.1	1498.7	1494.9	1516.0	1556.4
35°	1696.7	1542.9	1304.6	1272.0	1156.7	1158.6	1333.5	1444.9	1446.8	1466.0	1491.0
37.5°	1642.8	1467.9	1152.9	1208.6	1102.9	1102.9	1289.2	1395.0	1391.1	1396.9	1431.4
40°	1579.4	1350.8	1018.3	1125.9	1053.0	1047.2	1235.5	1341.1	1327.7	1325.8	1373.8
42.5°	1512.1	1222.0	918.4	1016.4	995.3	987.6	1170.2	1275.8	1250.9	1256.6	1318.1
45°	1439.2	1187.4	841.5	858.8	935.7	930.0	1099.0	1200.9	1183.6	1199.0	1262.4
47.5°	1366.1	1118.3	816.6	712.8	872.3	870.4	1020.2	1127.9	1118.3	1133.7	1200.9
50°	1266.2	1041.4	814.7	611.0	801.2	808.9	926.2	1056.8	1056.8	1070.3	1141.3
52.5°	1137.5	947.3	739.7	553.3	718.6	741.7	843.5	995.3	999.1	1012.6	1076.0
55°	1020.2	849.3	686.0	509.2	620.7	670.6	762.8	931.9	939.5	953.0	1010.7
57.5°	912.7	707.1	674.4	457.3	530.3	578.3	691.7	870.4	874.2	885.8	941.5
60°	797.4	511.1	618.7	401.6	451.5	488.0	626.4	797.4	810.8	818.5	866.6
62.5°	666.7	370.8	561.1	363.2	413.1	420.8	572.6	728.2	745.5	751.3	780.1
65°	474.6	311.2	476.5	330.5	372.7	374.6	514.9	657.1	672.5	682.1	703.3
67.5°	320.9	253.6	363.2	299.8	342.0	343.9	459.3	574.5	595.6	603.4	616.7
70°	222.9	169.1	269.0	267.1	307.4	311.2	399.7	499.6	518.8	524.6	532.2
72.5°	163.3	136.4	222.9	240.2	270.9	274.8	338.2	415.0	434.2	440.0	443.9
75°	124.9	144.1	180.6	209.4	230.5	232.4	276.7	338.2	351.6	355.5	357.4
77.5°	99.9	134.5	132.6	169.1	188.3	184.4	217.2	261.3	272.8	272.8	272.8
80°	75.0	105.7	99.9	121.1	138.4	134.5	155.7	186.4	190.2	194.1	192.1
82.5°	55.7	67.2	67.2	76.9	92.3	88.4	103.7	121.1	121.1	121.1	124.9
85°	34.6	38.4	30.8	40.4	51.9	49.9	57.7	65.3	67.2	67.2	63.4
87.5°	21.1	17.3	9.6	15.4	23.0	23.0	26.9	28.8	26.9	26.9	26.9
90°	7.4	5.2	2.9	5.2	7.4	8.0	12.6	18.7	21.8	19.4	14.5
92.5°	50.5	30.9	11.5	30.9	50.5	55.4	77.8	107.8	122.8	107.6	77.3
95°	98.9	63.2	27.5	63.2	98.9	107.9	191.6	303.2	359.0	320.3	243.0
97.5°	110.7	79.2	47.7	79.2	110.7	118.5	258.0	444.2	537.2	512.7	463.9
100°	120.2	91.7	63.1	91.7	120.2	127.4	282.3	488.8	592.0	593.8	597.4
102.5°	129.6	102.9	76.3	102.9	129.6	136.3	293.4	502.8	607.5	638.6	700.8
105°	143.8	121.3	98.7	121.3	143.8	149.5	301.6	504.3	605.8	675.5	815.0
107.5°	163.8	142.7	121.7	142.7	163.8	169.0	303.1	481.9	571.3	668.6	863.2
110°	175.1	156.1	137.1	156.1	175.1	179.9	300.8	462.0	542.6	651.4	869.0



TEST NUMBER: P933901

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	188.6	170.5	152.4	170.5	188.6	193.1	300.9	444.6	516.6	627.9	850.5
115°	208.8	192.1	175.3	192.1	208.8	213.0	303.7	424.7	485.2	592.5	807.0
117.5°	228.3	213.2	198.0	213.2	228.3	232.2	309.3	412.3	463.7	560.6	754.2
120°	239.8	225.5	211.2	225.5	239.8	243.3	313.9	408.0	455.1	543.5	720.5
122.5°	252.9	238.6	224.1	238.6	252.9	256.5	320.5	405.8	448.5	528.1	687.4
125°	270.3	257.1	243.9	257.1	270.3	273.5	329.5	404.1	441.3	508.9	644.2
127.5°	286.5	273.2	260.0	273.2	286.5	289.8	338.4	403.0	435.3	493.4	609.6
130°	297.2	282.9	268.5	282.9	297.2	300.7	344.9	403.6	433.0	484.8	588.2
132.5°	306.1	291.8	277.5	291.8	306.1	309.6	350.1	404.1	431.0	477.3	569.9
135°	316.7	303.7	290.7	303.7	316.7	319.9	355.8	403.7	427.6	466.3	543.9
137.5°	329.9	317.1	304.2	317.1	329.9	333.1	364.4	406.2	427.0	459.7	525.2
140°	339.1	327.2	315.3	327.2	339.1	342.1	369.7	406.5	425.0	453.2	509.9
142.5°	345.9	334.9	323.9	334.9	345.9	348.7	374.1	408.0	425.0	449.8	499.6
145°	356.3	346.8	337.2	346.8	356.3	358.7	379.8	408.0	422.1	442.5	483.1
147.5°	369.0	359.7	350.4	359.7	369.0	371.3	388.2	410.8	422.1	438.2	470.1
150°	375.8	367.4	359.0	367.4	375.8	377.9	392.6	412.3	422.1	435.7	462.7
152.5°	380.6	374.3	367.9	374.3	380.6	382.2	395.5	413.2	422.1	433.7	456.8
155°	390.5	385.7	381.0	385.7	390.5	391.6	401.8	415.3	422.1	431.3	449.7
157.5°	400.0	395.4	390.8	395.4	400.0	401.2	408.2	417.4	422.1	429.3	443.5
160°	404.6	401.0	397.5	401.0	404.6	405.5	411.0	418.4	422.1	428.2	440.4
162.5°	409.4	406.7	404.1	406.7	409.4	410.1	414.1	419.4	422.1	427.3	437.6
165°	416.1	413.6	411.2	413.6	416.1	416.7	418.5	420.9	422.1	425.8	433.2
167.5°	420.1	419.0	417.8	419.0	420.1	420.4	421.9	423.9	425.0	427.4	432.2
170°	424.4	423.3	422.1	423.3	424.4	424.7	424.8	424.9	425.0	427.4	432.2
172.5°	424.9	424.7	424.4	424.7	424.9	425.0	425.0	425.0	425.0	426.9	430.7
175°	427.6	427.6	427.6	427.6	427.6	427.6	426.7	425.5	425.0	426.2	428.6
177.5°	427.6	427.6	427.6	427.6	427.6	427.6	426.9	426.0	425.5	426.5	428.4
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6



TEST NUMBER: P933901

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	1959.9	1954.1	1961.8	1940.7	1961.8	1954.1	1959.9	1973.3	1961.8	1969.5	1977.1
5°	1719.7	1710.0	1679.4	1654.3	1679.4	1710.0	1719.7	1760.1	1779.3	1813.8	1860.0
7.5°	1537.2	1529.4	1521.8	1506.4	1521.8	1529.4	1537.2	1548.6	1567.9	1598.6	1633.2
10°	1496.8	1498.7	1510.2	1508.3	1510.2	1498.7	1496.8	1493.0	1487.2	1493.0	1514.1
12.5°	1600.6	1617.9	1681.3	1677.4	1681.3	1617.9	1600.6	1523.7	1471.8	1462.2	1466.0
15°	1719.7	1725.4	1738.9	1740.8	1738.9	1725.4	1719.7	1688.9	1533.3	1466.0	1444.9
17.5°	1731.2	1733.1	1742.7	1742.7	1742.7	1733.1	1731.2	1717.8	1665.9	1575.6	1456.5
20°	1721.6	1725.4	1744.7	1748.5	1744.7	1725.4	1721.6	1704.3	1675.5	1642.8	1552.5
22.5°	1717.8	1725.4	1740.8	1738.9	1740.8	1725.4	1717.8	1690.8	1665.9	1642.8	1606.3
25°	1698.6	1698.6	1700.5	1702.4	1700.5	1698.6	1698.6	1677.4	1627.4	1621.7	1600.6
27.5°	1658.2	1662.0	1673.5	1671.6	1673.5	1662.0	1658.2	1650.5	1596.7	1590.9	1575.6
30°	1621.7	1617.9	1608.2	1600.6	1608.2	1617.9	1621.7	1610.1	1556.4	1541.0	1544.8
32.5°	1560.2	1550.5	1541.0	1535.3	1541.0	1550.5	1560.2	1556.4	1516.0	1494.9	1498.7
35°	1487.2	1489.1	1487.2	1481.4	1487.2	1489.1	1487.2	1491.0	1466.0	1446.8	1444.9
37.5°	1435.3	1439.2	1437.2	1429.5	1437.2	1439.2	1435.3	1431.4	1396.9	1391.1	1395.0
40°	1381.5	1383.4	1381.5	1375.8	1381.5	1383.4	1381.5	1373.8	1325.8	1327.7	1341.1
42.5°	1329.6	1327.7	1321.9	1318.1	1321.9	1327.7	1329.6	1318.1	1256.6	1250.9	1275.8
45°	1270.1	1272.0	1260.4	1254.7	1260.4	1272.0	1270.1	1262.4	1199.0	1183.6	1200.9
47.5°	1210.5	1210.5	1200.9	1195.1	1200.9	1210.5	1210.5	1200.9	1133.7	1118.3	1127.9
50°	1147.1	1145.1	1131.7	1129.8	1131.7	1145.1	1147.1	1141.3	1070.3	1056.8	1056.8
52.5°	1074.1	1074.1	1076.0	1079.8	1076.0	1074.1	1074.1	1076.0	1012.6	999.1	995.3
55°	1010.7	1012.6	1026.1	1029.9	1026.1	1012.6	1010.7	1010.7	953.0	939.5	931.9
57.5°	945.4	945.4	954.9	954.9	954.9	945.4	945.4	941.5	885.8	874.2	870.4
60°	870.4	874.2	881.9	880.0	881.9	874.2	870.4	866.6	818.5	810.8	797.4
62.5°	791.6	795.5	797.4	793.5	797.4	795.5	791.6	780.1	751.3	745.5	728.2
65°	709.0	712.8	714.7	710.9	714.7	712.8	709.0	703.3	682.1	672.5	657.1
67.5°	624.5	622.6	620.7	628.3	620.7	622.6	624.5	616.7	603.4	595.6	574.5
70°	538.0	538.0	536.0	540.0	536.0	538.0	538.0	532.2	524.6	518.8	499.6
72.5°	445.8	443.9	451.5	445.8	451.5	443.9	445.8	443.9	440.0	434.2	415.0
75°	355.5	359.3	355.5	361.2	355.5	359.3	355.5	357.4	355.5	351.6	338.2
77.5°	270.9	274.8	270.9	270.9	270.9	274.8	270.9	272.8	272.8	272.8	261.3
80°	192.1	190.2	190.2	188.3	190.2	190.2	192.1	192.1	194.1	190.2	186.4
82.5°	123.0	121.1	121.1	124.9	121.1	121.1	123.0	124.9	121.1	121.1	121.1
85°	67.2	69.1	65.3	65.3	65.3	69.1	67.2	63.4	67.2	67.2	65.3
87.5°	25.0	23.0	23.0	23.0	23.0	23.0	25.0	26.9	26.9	26.9	28.8
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°	54.5	52.3	43.7	35.0	43.7	52.3	54.5	77.3	107.6	122.8	107.8
95°	185.1	178.5	152.2	126.0	152.2	178.5	185.1	243.0	320.3	359.0	303.2
97.5°	427.3	414.8	364.8	314.8	364.8	414.8	427.3	463.9	512.7	537.2	444.2
100°	600.0	585.1	525.6	466.0	525.6	585.1	600.0	597.4	593.8	592.0	488.8
102.5°	747.5	734.7	683.7	632.7	683.7	734.7	747.5	700.8	638.6	607.5	502.8
105°	919.7	912.8	885.4	858.0	885.4	912.8	919.7	815.0	675.5	605.8	504.3
107.5°	1009.2	1010.9	1017.6	1024.1	1017.6	1010.9	1009.2	863.2	668.6	571.3	481.9
110°	1032.2	1039.3	1067.9	1096.4	1067.9	1039.3	1032.2	869.0	651.4	542.6	462.0



TEST NUMBER: P933901

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1017.6	1028.5	1072.4	1116.2	1072.4	1028.5	1017.6	850.5	627.9	516.6	444.6
115°	967.9	983.1	1043.9	1104.7	1043.9	983.1	967.9	807.0	592.5	485.2	424.7
117.5°	899.3	916.2	983.6	1051.1	983.6	916.2	899.3	754.2	560.6	463.7	412.3
120°	853.1	869.5	935.0	1000.6	935.0	869.5	853.1	720.5	543.5	455.1	408.0
122.5°	806.9	823.0	887.8	952.4	887.8	823.0	806.9	687.4	528.1	448.5	405.8
125°	745.8	760.7	820.2	879.7	820.2	760.7	745.8	644.2	508.9	441.3	404.1
127.5°	696.7	709.3	759.5	809.7	759.5	709.3	696.7	609.6	493.4	435.3	403.0
130°	665.7	677.4	723.8	770.2	723.8	677.4	665.7	588.2	484.8	433.0	403.6
132.5°	639.4	649.8	691.3	732.9	691.3	649.8	639.4	569.9	477.3	431.0	404.1
135°	602.0	611.0	646.8	682.6	646.8	611.0	602.0	543.9	466.3	427.6	403.7
137.5°	574.4	581.8	611.1	640.5	611.1	581.8	574.4	525.2	459.7	427.0	406.2
140°	552.4	559.2	586.7	614.1	586.7	559.2	552.4	509.9	453.2	425.0	406.5
142.5°	536.9	542.8	566.4	590.0	566.4	542.8	536.9	499.6	449.8	425.0	408.0
145°	513.6	518.1	535.9	553.8	535.9	518.1	513.6	483.1	442.5	422.1	408.0
147.5°	494.1	497.8	512.6	527.4	512.6	497.8	494.1	470.1	438.2	422.1	410.8
150°	482.9	485.9	497.9	509.9	497.9	485.9	482.9	462.7	435.7	422.1	412.3
152.5°	474.1	476.4	485.3	494.4	485.3	476.4	474.1	456.8	433.7	422.1	413.2
155°	463.5	465.0	470.9	476.9	470.9	465.0	463.5	449.7	431.3	422.1	415.3
157.5°	454.2	455.2	459.5	463.7	459.5	455.2	454.2	443.5	429.3	422.1	417.4
160°	449.6	450.2	452.7	455.1	452.7	450.2	449.6	440.4	428.2	422.1	418.4
162.5°	445.3	445.9	448.2	450.5	448.2	445.9	445.3	437.6	427.3	422.1	419.4
165°	438.7	439.3	441.8	444.2	441.8	439.3	438.7	433.2	425.8	422.1	420.9
167.5°	435.9	436.1	437.1	438.2	437.1	436.1	435.9	432.2	427.4	425.0	423.9
170°	435.9	435.9	435.9	435.9	435.9	435.9	435.9	432.2	427.4	425.0	424.9
172.5°	433.6	433.4	432.4	431.6	432.4	433.4	433.6	430.7	426.9	425.0	425.0
175°	430.4	430.4	430.4	430.4	430.4	430.4	430.4	428.6	426.2	425.0	425.5
177.5°	429.8	429.6	428.6	427.6	428.6	429.6	429.8	428.4	426.5	425.5	426.0
180°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6



TEST NUMBER: P933901

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	2006.0	2015.5	2021.4	2029.0	2048.2
5°	1929.1	1965.6	1977.1	2006.0	2040.5
7.5°	1760.1	1871.4	1902.2	1971.4	2025.2
10°	1596.7	1708.1	1762.0	1925.3	2006.0
12.5°	1514.1	1579.4	1616.0	1844.6	1979.0
15°	1462.2	1508.3	1535.3	1737.0	1948.3
17.5°	1421.8	1454.6	1473.8	1631.3	1906.1
20°	1396.9	1412.3	1429.5	1554.5	1858.0
22.5°	1379.6	1369.9	1383.4	1500.6	1792.7
25°	1368.0	1331.6	1346.9	1458.4	1715.8
27.5°	1377.7	1297.0	1302.7	1419.9	1635.2
30°	1379.6	1254.7	1256.6	1379.6	1544.8
32.5°	1366.1	1210.5	1212.4	1329.6	1443.0
35°	1333.5	1158.6	1156.7	1272.0	1304.6
37.5°	1289.2	1102.9	1102.9	1208.6	1152.9
40°	1235.5	1047.2	1053.0	1125.9	1018.3
42.5°	1170.2	987.6	995.3	1016.4	918.4
45°	1099.0	930.0	935.7	858.8	841.5
47.5°	1020.2	870.4	872.3	712.8	816.6
50°	926.2	808.9	801.2	611.0	814.7
52.5°	843.5	741.7	718.6	553.3	739.7
55°	762.8	670.6	620.7	509.2	686.0
57.5°	691.7	578.3	530.3	457.3	674.4
60°	626.4	488.0	451.5	401.6	618.7
62.5°	572.6	420.8	413.1	363.2	561.1
65°	514.9	374.6	372.7	330.5	476.5
67.5°	459.3	343.9	342.0	299.8	363.2
70°	399.7	311.2	307.4	267.1	269.0
72.5°	338.2	274.8	270.9	240.2	222.9
75°	276.7	232.4	230.5	209.4	180.6
77.5°	217.2	184.4	188.3	169.1	132.6
80°	155.7	134.5	138.4	121.1	99.9
82.5°	103.7	88.4	92.3	76.9	67.2
85°	57.7	49.9	51.9	40.4	30.8
87.5°	26.9	23.0	23.0	15.4	9.6
90°	12.6	8.0	7.4	5.2	2.9
92.5°	77.8	55.4	50.5	30.9	11.5
95°	191.6	107.9	98.9	63.2	27.5
97.5°	258.0	118.5	110.7	79.2	47.7
100°	282.3	127.4	120.2	91.7	63.1
102.5°	293.4	136.3	129.6	102.9	76.3
105°	301.6	149.5	143.8	121.3	98.7
107.5°	303.1	169.0	163.8	142.7	121.7
110°	300.8	179.9	175.1	156.1	137.1



TEST NUMBER: P933901

CATALOG NUMBER: SQ4-FA-025U-050D-B40-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	300.9	193.1	188.6	170.5	152.4
115°	303.7	213.0	208.8	192.1	175.3
117.5°	309.3	232.2	228.3	213.2	198.0
120°	313.9	243.3	239.8	225.5	211.2
122.5°	320.5	256.5	252.9	238.6	224.1
125°	329.5	273.5	270.3	257.1	243.9
127.5°	338.4	289.8	286.5	273.2	260.0
130°	344.9	300.7	297.2	282.9	268.5
132.5°	350.1	309.6	306.1	291.8	277.5
135°	355.8	319.9	316.7	303.7	290.7
137.5°	364.4	333.1	329.9	317.1	304.2
140°	369.7	342.1	339.1	327.2	315.3
142.5°	374.1	348.7	345.9	334.9	323.9
145°	379.8	358.7	356.3	346.8	337.2
147.5°	388.2	371.3	369.0	359.7	350.4
150°	392.6	377.9	375.8	367.4	359.0
152.5°	395.5	382.2	380.6	374.3	367.9
155°	401.8	391.6	390.5	385.7	381.0
157.5°	408.2	401.2	400.0	395.4	390.8
160°	411.0	405.5	404.6	401.0	397.5
162.5°	414.1	410.1	409.4	406.7	404.1
165°	418.5	416.7	416.1	413.6	411.2
167.5°	421.9	420.4	420.1	419.0	417.8
170°	424.8	424.7	424.4	423.3	422.1
172.5°	425.0	425.0	424.9	424.7	424.4
175°	426.7	427.6	427.6	427.6	427.6
177.5°	426.9	427.6	427.6	427.6	427.6
180°	427.6	427.6	427.6	427.6	427.6



TEST NUMBER: P933901
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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	14.37	15.40	15.37	16.39	16.18	17.22	18.25
	3H	13.01	13.92	13.83	14.77	15.83	16.73	17.65	17.56	18.49	19.55
	4H	13.21	14.07	14.05	14.92	15.99	17.19	18.05	18.03	18.91	19.98
	6H	13.33	14.13	14.19	14.99	16.07	17.49	18.29	18.34	19.14	20.23
	8H	13.34	14.10	14.20	14.97	16.06	17.57	18.33	18.43	19.21	20.29
	12H	13.31	14.04	14.18	14.91	16.02	17.62	18.34	18.49	19.21	20.32
4H	2H	13.57	14.44	14.42	15.29	16.36	15.80	16.66	16.64	17.51	18.58
	3H	14.62	15.34	15.48	16.22	17.31	17.32	18.04	18.18	18.93	20.01
	4H	14.90	15.56	15.77	16.44	17.55	17.86	18.52	18.73	19.40	20.51
	6H	15.03	15.60	15.92	16.51	17.62	18.24	18.81	19.13	19.72	20.83
	8H	15.04	15.57	15.93	16.47	17.60	18.36	18.89	19.25	19.79	20.91
	12H	15.02	15.49	15.93	16.41	17.55	18.43	18.90	19.33	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	16.55	17.02	18.15	18.45	18.89	19.36	19.83	20.96
	8H	15.68	16.07	16.61	17.00	18.15	18.61	18.99	19.53	19.93	21.07
	12H	15.67	16.02	16.60	16.94	18.14	18.72	19.06	19.64	19.98	21.18
12H	4H	15.38	15.86	16.29	16.78	17.91	17.97	18.45	18.88	19.37	20.50
	6H	15.70	16.09	16.63	17.02	18.17	18.45	18.84	19.37	19.77	20.92
	8H	15.78	16.12	16.70	17.04	18.24	18.62	18.96	19.55	19.89	21.08