

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: P934499

Luminaire Tested: SQ4-FA-050U-100D-B35-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934499
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-B35-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

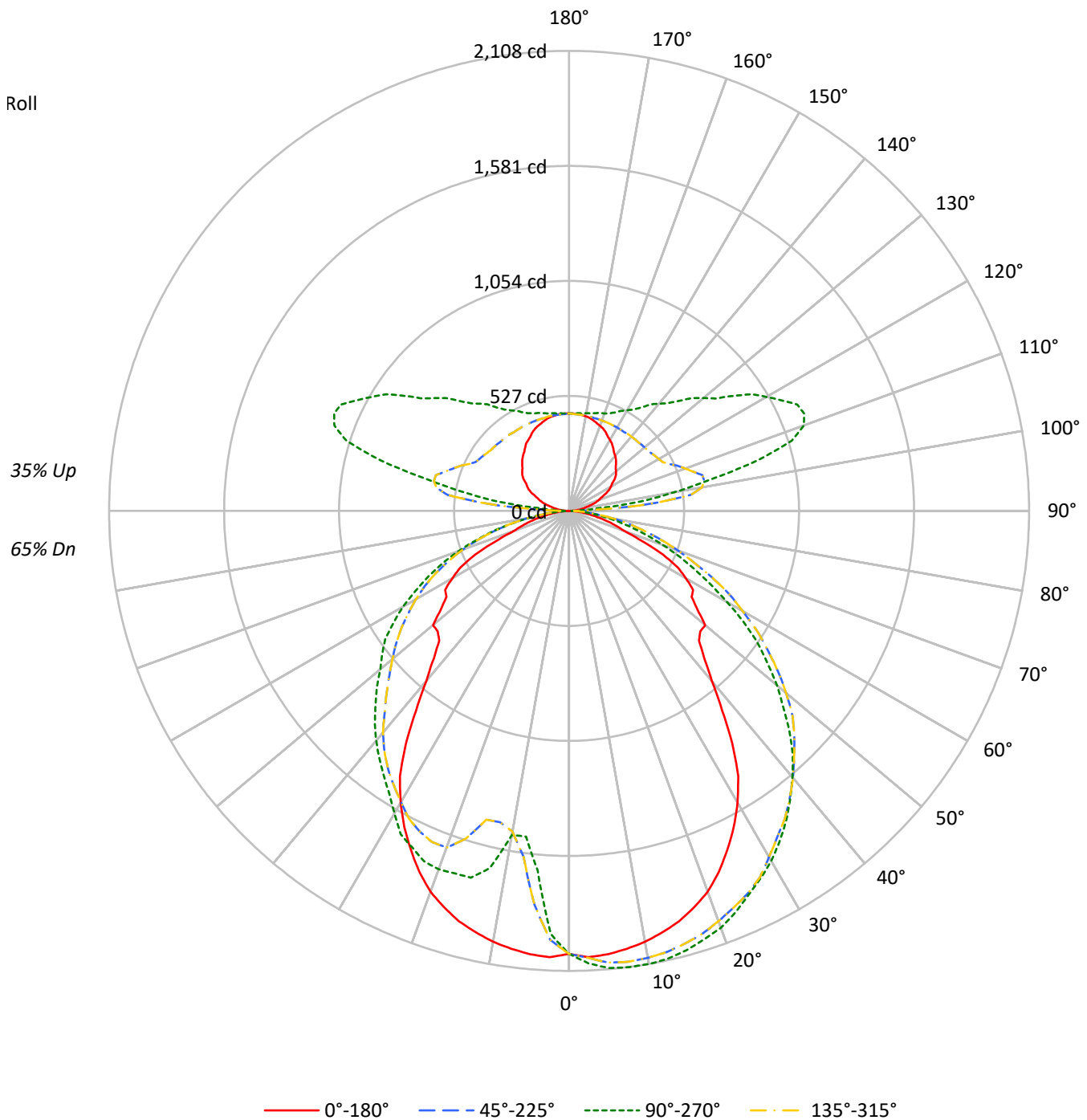
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8158.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.8
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	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12556	12556	12556	12556
5°	12645	12674	12645	9966
10°	12556	12485	12556	8926
15°	12415	12214	12415	10199
20°	12151	11894	12151	10221
25°	11614	11427	11614	10005
30°	10923	11039	10923	9528
35°	9733	10548	9733	9006
40°	8105	9970	8105	8611
45°	7238	9294	7238	8157
50°	7683	8487	7683	7701
55°	7222	7618	7222	7438
60°	7435	6470	7435	6813
65°	6731	5349	6731	5979
70°	4649	4262	4649	5011
75°	4062	3151	4062	3773
80°	3248	2084	3248	2268
85°	1830	1103	1830	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11100 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	2.2
10°-20°	520.2	6.4
20°-30°	804.1	9.9
30°-40°	960.0	11.8
40°-50°	965.6	11.8
50°-60°	840.2	10.3
60°-70°	595.7	7.3
70°-80°	315.2	3.9
80°-90°	80.2	1.0
90°-100°	217.6	2.7
100°-110°	572.0	7.0
110°-120°	593.1	7.3
120°-130°	475.8	5.8
130°-140°	373.3	4.6
140°-150°	286.5	3.5
150°-160°	206.4	2.5
160°-170°	126.3	1.5
170°-180°	42.7	0.5
0°-30°	1507.5	18.5
0°-40°	2467.5	30.2
0°-60°	4273.3	52.4
0°-90°	5264.3	64.5
90°-120°	1382.8	16.9
90°-150°	2518.4	30.9
90°-180°	2894.0	35.5
0°-180°	8158.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2030	2030	2030	2030	2030	
5°	2039	2103	2039	1653	2039	193
15°	1947	2083	1947	1740	1947	548
25°	1715	1943	1715	1701	1715	787
35°	1304	1734	1304	1480	1304	807
45°	841	1429	841	1254	841	674
55°	686	1054	686	1029	686	630
65°	476	636	476	710	476	455
75°	180	302	180	361	180	190
85°	31	77	31	65	31	41
90°	3	11	3	11	3	4
95°	29	132	29	132	29	32
105°	103	896	103	896	103	109
115°	183	1153	183	1153	183	181
125°	255	918	255	918	255	226
135°	304	713	304	713	304	235
145°	352	578	352	578	352	221
155°	398	498	398	498	398	183
165°	429	464	429	464	429	121
175°	446	449	446	449	446	42
180°	446	446	446	446	446	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2047.0	2047.0	2058.5	2062.3	2062.3	2056.6	2050.8	2056.6	2073.9	2079.7	2077.7
5°	2039.3	2054.7	2075.8	2079.7	2083.4	2081.5	2077.7	2081.5	2100.7	2104.6	2106.5
7.5°	2024.0	2052.7	2079.7	2085.4	2091.1	2085.4	2083.4	2087.3	2106.5	2110.4	2110.4
10°	2004.8	2045.1	2075.8	2079.7	2085.4	2079.7	2079.7	2087.3	2106.5	2110.4	2112.2
12.5°	1977.8	2033.5	2062.3	2066.2	2073.9	2071.9	2070.0	2077.7	2096.9	2100.7	2100.7
15°	1947.1	2012.4	2039.3	2043.1	2056.6	2052.7	2052.7	2060.4	2081.5	2087.3	2085.4
17.5°	1904.9	1985.5	2016.3	2022.0	2031.6	2029.7	2031.6	2039.3	2058.5	2062.3	2064.3
20°	1856.9	1949.0	1985.5	1991.3	2000.9	2000.9	2000.9	2010.5	2029.7	2037.4	2037.4
22.5°	1791.6	1910.7	1949.0	1952.9	1964.5	1964.5	1968.2	1981.7	1999.0	2000.9	2000.9
25°	1714.7	1868.4	1901.1	1912.5	1924.0	1929.9	1935.6	1943.3	1949.0	1947.1	1949.0
27.5°	1634.1	1814.6	1856.9	1864.5	1880.0	1885.7	1893.3	1895.3	1897.2	1902.9	1899.1
30°	1543.9	1739.7	1803.1	1810.8	1835.8	1839.5	1831.9	1835.8	1845.4	1849.2	1853.0
32.5°	1442.1	1628.4	1747.4	1764.7	1787.7	1776.2	1774.3	1780.1	1795.5	1795.5	1799.2
35°	1303.9	1542.0	1695.6	1711.0	1728.2	1714.7	1722.5	1724.3	1733.9	1739.7	1737.8
37.5°	1152.1	1467.1	1641.8	1653.3	1666.8	1649.5	1661.0	1666.8	1674.4	1670.7	1670.7
40°	1017.7	1349.9	1578.4	1586.2	1597.7	1584.2	1595.7	1599.5	1603.4	1599.5	1597.7
42.5°	917.8	1221.2	1511.3	1520.8	1513.2	1522.8	1526.6	1534.3	1528.5	1520.8	1520.8
45°	841.1	1186.7	1438.3	1449.8	1438.3	1453.6	1459.4	1459.4	1442.1	1438.3	1436.3
47.5°	816.1	1117.5	1365.3	1365.3	1359.5	1378.7	1388.3	1374.9	1357.6	1351.9	1351.9
50°	814.2	1040.8	1265.4	1257.8	1284.6	1307.7	1298.1	1284.6	1271.2	1250.1	1250.1
52.5°	739.3	946.7	1136.7	1165.6	1207.9	1221.2	1205.9	1192.5	1169.4	1159.8	1152.1
55°	685.6	848.7	1019.7	1077.2	1121.4	1138.7	1109.9	1096.4	1061.9	1056.1	1052.3
57.5°	674.0	706.7	912.1	985.1	1038.9	1036.9	1019.7	994.7	965.9	960.1	958.2
60°	618.3	510.8	796.9	883.3	939.0	933.2	917.8	894.9	867.9	864.2	860.3
62.5°	560.7	370.6	666.3	764.3	843.0	841.1	827.6	793.0	773.8	764.3	756.6
65°	476.3	311.0	474.3	635.6	748.9	752.7	723.9	698.9	677.8	666.3	664.4
67.5°	362.9	253.5	320.6	529.9	658.6	654.9	618.3	606.8	579.9	574.1	562.6
70°	268.8	169.0	222.8	430.1	570.4	560.7	531.9	518.5	493.5	480.0	472.4
72.5°	222.8	136.3	163.2	334.1	480.0	468.5	443.6	428.2	407.1	395.5	387.9
75°	180.5	144.0	124.8	247.7	389.8	382.2	359.1	343.7	326.5	311.0	313.0
77.5°	132.5	134.4	99.8	182.5	309.1	297.7	284.2	265.0	257.3	242.0	242.0
80°	99.8	105.6	74.9	124.8	222.8	222.8	211.2	197.8	184.3	176.6	176.6
82.5°	67.2	67.2	55.7	78.7	151.7	145.9	138.3	134.4	126.7	122.9	122.9
85°	30.7	38.4	34.6	48.0	82.6	86.4	86.4	82.6	80.6	76.8	78.7
87.5°	9.6	17.2	21.1	26.8	42.2	44.2	46.1	46.1	46.1	48.0	48.0
90°	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.1	11.3	11.3
92.5°	12.0	32.4	52.7	57.8	81.3	112.6	128.2	112.3	80.6	56.9	54.7
95°	28.8	66.0	103.3	112.6	200.0	316.6	374.8	334.5	253.8	193.2	186.3
97.5°	49.7	82.7	115.5	123.7	269.5	463.8	560.9	535.4	484.3	446.0	432.9
100°	65.9	95.7	125.6	133.0	294.7	510.3	618.0	619.9	623.6	626.5	611.0
102.5°	79.7	107.6	135.4	142.3	306.3	524.9	634.2	666.7	731.7	780.4	767.2
105°	103.1	126.6	150.2	156.1	314.8	526.6	632.4	705.2	850.9	960.2	953.0
107.5°	127.0	149.0	170.9	176.5	316.5	503.1	596.4	698.0	901.2	1053.6	1055.3
110°	143.2	163.0	182.9	187.8	314.1	482.4	566.5	680.0	907.3	1077.6	1085.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.1	178.0	196.9	201.6	314.1	464.2	539.2	655.5	888.0	1062.3	1073.7
115°	183.0	200.5	217.9	222.3	317.1	443.4	506.6	618.6	842.5	1010.5	1026.4
117.5°	206.7	222.6	238.4	242.3	323.0	430.4	484.1	585.2	787.3	938.9	956.5
120°	220.4	235.4	250.3	254.1	327.7	426.0	475.1	567.4	752.1	890.6	907.8
122.5°	234.0	249.0	264.1	267.8	334.6	423.6	468.2	551.4	717.7	842.4	859.3
125°	254.7	268.3	282.1	285.5	343.9	421.8	460.8	531.4	672.7	778.6	794.1
127.5°	271.4	285.3	299.1	302.6	353.2	420.7	454.5	515.1	636.3	727.3	740.4
130°	280.4	295.4	310.3	314.0	360.0	421.3	452.0	506.0	614.1	695.1	707.2
132.5°	289.7	304.7	319.6	323.3	365.5	421.8	450.0	498.4	595.0	667.4	678.3
135°	303.5	317.1	330.6	334.0	371.5	421.4	446.4	486.9	567.8	628.5	637.9
137.5°	317.5	331.0	344.4	347.8	380.4	423.9	445.7	479.9	548.4	599.7	607.4
140°	329.3	341.7	354.0	357.1	386.0	424.4	443.7	473.3	532.4	576.7	583.8
142.5°	338.2	349.6	361.0	364.0	390.5	426.0	443.7	469.7	521.5	560.5	566.7
145°	352.0	362.0	372.0	374.5	396.6	426.0	440.7	461.9	504.4	536.2	540.9
147.5°	365.8	375.5	385.3	387.7	405.3	428.9	440.7	457.4	490.8	515.9	519.8
150°	374.8	383.6	392.3	394.6	410.0	430.4	440.7	454.8	483.0	504.2	507.3
152.5°	384.0	390.7	397.4	399.0	412.9	431.4	440.7	452.7	476.8	494.9	497.2
155°	397.9	402.8	407.7	408.9	419.5	433.6	440.7	450.3	469.5	483.8	485.4
157.5°	408.0	412.8	417.6	418.8	426.1	435.9	440.7	448.2	463.1	474.2	475.3
160°	414.9	418.6	422.3	423.3	429.1	436.8	440.7	447.1	459.9	469.5	470.1
162.5°	421.8	424.6	427.4	428.1	432.3	437.9	440.7	446.1	456.9	464.9	465.5
165°	429.3	431.8	434.3	435.0	436.9	439.4	440.7	444.6	452.2	458.0	458.7
167.5°	436.1	437.3	438.6	438.9	440.5	442.6	443.7	446.2	451.3	455.0	455.3
170°	440.7	441.9	443.1	443.4	443.5	443.6	443.7	446.2	451.3	455.0	455.0
172.5°	443.1	443.4	443.6	443.7	443.7	443.7	443.7	445.6	449.6	452.6	452.4
175°	446.4	446.4	446.4	446.4	445.5	444.3	443.7	445.0	447.5	449.3	449.3
177.5°	446.4	446.4	446.4	446.4	445.7	444.8	444.3	445.3	447.3	448.7	448.5
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2081.5	2075.8	2081.5	2077.7	2079.7	2073.9	2056.6	2050.8	2056.6	2062.3	2062.3
5°	2106.5	2102.6	2106.5	2106.5	2104.6	2100.7	2081.5	2077.7	2081.5	2083.4	2079.7
7.5°	2114.2	2108.4	2114.2	2110.4	2110.4	2106.5	2087.3	2083.4	2085.4	2091.1	2085.4
10°	2114.2	2108.4	2114.2	2112.2	2110.4	2106.5	2087.3	2079.7	2079.7	2085.4	2079.7
12.5°	2104.6	2100.7	2104.6	2100.7	2100.7	2096.9	2077.7	2070.0	2071.9	2073.9	2066.2
15°	2089.3	2083.4	2089.3	2085.4	2087.3	2081.5	2060.4	2052.7	2052.7	2056.6	2043.1
17.5°	2066.2	2058.5	2066.2	2064.3	2062.3	2058.5	2039.3	2031.6	2029.7	2031.6	2022.0
20°	2039.3	2033.5	2039.3	2037.4	2037.4	2029.7	2010.5	2000.9	2000.9	2000.9	1991.3
22.5°	1997.0	1991.3	1997.0	2000.9	2000.9	1999.0	1981.7	1968.2	1964.5	1964.5	1952.9
25°	1949.0	1943.3	1949.0	1949.0	1947.1	1949.0	1943.3	1935.6	1929.9	1924.0	1912.5
27.5°	1902.9	1899.1	1902.9	1899.1	1902.9	1897.2	1895.3	1893.3	1885.7	1880.0	1864.5
30°	1856.9	1853.0	1856.9	1853.0	1849.2	1845.4	1835.8	1831.9	1839.5	1835.8	1810.8
32.5°	1799.2	1795.5	1799.2	1799.2	1795.5	1795.5	1780.1	1774.3	1776.2	1787.7	1764.7
35°	1739.7	1733.9	1739.7	1737.8	1739.7	1733.9	1724.3	1722.5	1714.7	1728.2	1711.0
37.5°	1670.7	1664.8	1670.7	1670.7	1670.7	1674.4	1666.8	1661.0	1649.5	1666.8	1653.3
40°	1599.5	1591.9	1599.5	1597.7	1599.5	1603.4	1599.5	1595.7	1584.2	1597.7	1586.2
42.5°	1518.9	1517.0	1518.9	1520.8	1520.8	1528.5	1534.3	1526.6	1522.8	1513.2	1520.8
45°	1432.5	1428.7	1432.5	1436.3	1438.3	1442.1	1459.4	1459.4	1453.6	1438.3	1449.8
47.5°	1340.3	1330.7	1340.3	1351.9	1351.9	1357.6	1374.9	1388.3	1378.7	1359.5	1365.3
50°	1242.4	1244.3	1242.4	1250.1	1250.1	1271.2	1284.6	1298.1	1307.7	1284.6	1257.8
52.5°	1146.4	1144.5	1146.4	1152.1	1159.8	1169.4	1192.5	1205.9	1221.2	1207.9	1165.6
55°	1050.4	1054.2	1050.4	1052.3	1056.1	1061.9	1096.4	1109.9	1138.7	1121.4	1077.2
57.5°	954.4	948.6	954.4	958.2	960.1	965.9	994.7	1019.7	1036.9	1038.9	985.1
60°	843.0	835.3	843.0	860.3	864.2	867.9	894.9	917.8	933.2	939.0	883.3
62.5°	745.1	731.6	745.1	756.6	764.3	773.8	793.0	827.6	841.1	843.0	764.3
65°	641.4	635.6	641.4	664.4	666.3	677.8	698.9	723.9	752.7	748.9	635.6
67.5°	547.3	547.3	547.3	562.6	574.1	579.9	606.8	618.3	654.9	658.6	529.9
70°	460.9	458.9	460.9	472.4	480.0	493.5	518.5	531.9	560.7	570.4	430.1
72.5°	378.3	376.4	378.3	387.9	395.5	407.1	428.2	443.6	468.5	480.0	334.1
75°	305.3	301.5	305.3	313.0	311.0	326.5	343.7	359.1	382.2	389.8	247.7
77.5°	234.3	234.3	234.3	242.0	242.0	257.3	265.0	284.2	297.7	309.1	182.5
80°	174.7	172.9	174.7	176.6	176.6	184.3	197.8	211.2	222.8	222.8	124.8
82.5°	122.9	119.1	122.9	122.9	122.9	126.7	134.4	138.3	145.9	151.7	78.7
85°	76.8	76.8	76.8	78.7	76.8	80.6	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	42.2	26.8
90°	11.3	11.3	11.3	11.3	11.3	15.1	20.3	22.8	19.6	13.2	8.4
92.5°	45.5	36.5	45.5	54.7	56.9	80.6	112.3	128.2	112.6	81.3	57.8
95°	158.9	131.5	158.9	186.3	193.2	253.8	334.5	374.8	316.6	200.0	112.6
97.5°	380.8	328.7	380.8	432.9	446.0	484.3	535.4	560.9	463.8	269.5	123.7
100°	548.7	486.5	548.7	611.0	626.5	623.6	619.9	618.0	510.3	294.7	133.0
102.5°	713.9	660.6	713.9	767.2	780.4	731.7	666.7	634.2	524.9	306.3	142.3
105°	924.4	895.7	924.4	953.0	960.2	850.9	705.2	632.4	526.6	314.8	156.1
107.5°	1062.2	1069.2	1062.2	1055.3	1053.6	901.2	698.0	596.4	503.1	316.5	176.5
110°	1114.8	1144.7	1114.8	1085.1	1077.6	907.3	680.0	566.5	482.4	314.1	187.8



TEST NUMBER: P934499

CATALOG NUMBER: SQ4-FA-050U-100D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1119.6	1165.3	1119.6	1073.7	1062.3	888.0	655.5	539.2	464.2	314.1	201.6
115°	1089.8	1153.4	1089.8	1026.4	1010.5	842.5	618.6	506.6	443.4	317.1	222.3
117.5°	1026.9	1097.4	1026.9	956.5	938.9	787.3	585.2	484.1	430.4	323.0	242.3
120°	976.2	1044.7	976.2	907.8	890.6	752.1	567.4	475.1	426.0	327.7	254.1
122.5°	926.8	994.3	926.8	859.3	842.4	717.7	551.4	468.2	423.6	334.6	267.8
125°	856.3	918.5	856.3	794.1	778.6	672.7	531.4	460.8	421.8	343.9	285.5
127.5°	792.9	845.5	792.9	740.4	727.3	636.3	515.1	454.5	420.7	353.2	302.6
130°	755.6	804.1	755.6	707.2	695.1	614.1	506.0	452.0	421.3	360.0	314.0
132.5°	721.7	765.1	721.7	678.3	667.4	595.0	498.4	450.0	421.8	365.5	323.3
135°	675.3	712.7	675.3	637.9	628.5	567.8	486.9	446.4	421.4	371.5	334.0
137.5°	638.1	668.7	638.1	607.4	599.7	548.4	479.9	445.7	423.9	380.4	347.8
140°	612.4	641.1	612.4	583.8	576.7	532.4	473.3	443.7	424.4	386.0	357.1
142.5°	591.3	615.9	591.3	566.7	560.5	521.5	469.7	443.7	426.0	390.5	364.0
145°	559.6	578.2	559.6	540.9	536.2	504.4	461.9	440.7	426.0	396.6	374.5
147.5°	535.2	550.6	535.2	519.8	515.9	490.8	457.4	440.7	428.9	405.3	387.7
150°	519.9	532.4	519.9	507.3	504.2	483.0	454.8	440.7	430.4	410.0	394.6
152.5°	506.7	516.2	506.7	497.2	494.9	476.8	452.7	440.7	431.4	412.9	399.0
155°	491.7	497.9	491.7	485.4	483.8	469.5	450.3	440.7	433.6	419.5	408.9
157.5°	479.8	484.1	479.8	475.3	474.2	463.1	448.2	440.7	435.9	426.1	418.8
160°	472.6	475.1	472.6	470.1	469.5	459.9	447.1	440.7	436.8	429.1	423.3
162.5°	467.9	470.4	467.9	465.5	464.9	456.9	446.1	440.7	437.9	432.3	428.1
165°	461.2	463.8	461.2	458.7	458.0	452.2	444.6	440.7	439.4	436.9	435.0
167.5°	456.4	457.5	456.4	455.3	455.0	451.3	446.2	443.7	442.6	440.5	438.9
170°	455.0	455.0	455.0	455.0	455.0	451.3	446.2	443.7	443.6	443.5	443.4
172.5°	451.5	450.6	451.5	452.4	452.6	449.6	445.6	443.7	443.7	443.7	443.7
175°	449.3	449.3	449.3	449.3	449.3	447.5	445.0	443.7	444.3	445.5	446.4
177.5°	447.5	446.4	447.5	448.5	448.7	447.3	445.3	444.3	444.8	445.7	446.4
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4



TEST NUMBER: P934499

CATALOG NUMBER: SQ4-FA-050U-100D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2058.5	2047.0	2047.0	2027.7	2020.1	2014.4	2004.8	1975.9	1968.2	1960.6	1972.1
5°	2075.8	2054.7	2039.3	2004.8	1975.9	1964.5	1927.9	1858.8	1812.7	1778.1	1758.9
7.5°	2079.7	2052.7	2024.0	1970.2	1901.1	1870.3	1758.9	1632.2	1597.7	1566.9	1547.7
10°	2075.8	2045.1	2004.8	1924.0	1760.9	1707.1	1595.7	1513.2	1492.1	1486.3	1492.1
12.5°	2062.3	2033.5	1977.8	1843.4	1614.9	1578.4	1513.2	1465.1	1461.3	1470.9	1522.8
15°	2039.3	2012.4	1947.1	1735.9	1534.3	1507.4	1461.3	1444.0	1465.1	1532.4	1687.9
17.5°	2016.3	1985.5	1904.9	1630.2	1472.8	1453.6	1420.9	1455.5	1574.6	1664.8	1716.7
20°	1985.5	1949.0	1856.9	1553.5	1428.7	1411.3	1396.0	1551.6	1641.8	1674.4	1703.2
22.5°	1949.0	1910.7	1791.6	1499.7	1382.6	1369.1	1378.7	1605.3	1641.8	1664.8	1689.8
25°	1901.1	1868.4	1714.7	1457.5	1346.1	1330.7	1367.3	1599.5	1620.7	1626.5	1676.4
27.5°	1856.9	1814.6	1634.1	1419.1	1301.9	1296.1	1376.9	1574.6	1589.9	1595.7	1649.5
30°	1803.1	1739.7	1543.9	1378.7	1255.8	1253.9	1378.7	1543.9	1540.0	1555.4	1609.1
32.5°	1747.4	1628.4	1442.1	1328.8	1211.6	1209.8	1365.3	1497.8	1493.9	1515.0	1555.4
35°	1695.6	1542.0	1303.9	1271.2	1156.0	1157.9	1332.7	1444.0	1445.9	1465.1	1490.1
37.5°	1641.8	1467.1	1152.1	1207.9	1102.2	1102.2	1288.5	1394.1	1390.2	1396.0	1430.5
40°	1578.4	1349.9	1017.7	1125.3	1052.3	1046.5	1234.7	1340.3	1326.9	1325.0	1373.0
42.5°	1511.3	1221.2	917.8	1015.8	994.7	987.0	1169.4	1275.0	1250.1	1255.8	1317.3
45°	1438.3	1186.7	841.1	858.3	935.2	929.4	1098.4	1200.1	1182.9	1198.3	1261.6
47.5°	1365.3	1117.5	816.1	712.4	871.8	869.9	1019.7	1127.1	1117.5	1133.0	1200.1
50°	1265.4	1040.8	814.2	610.7	800.8	808.4	925.6	1056.1	1056.1	1069.6	1140.6
52.5°	1136.7	946.7	739.3	553.0	718.1	741.2	843.0	994.7	998.6	1011.9	1075.3
55°	1019.7	848.7	685.6	508.8	620.3	670.2	762.3	931.3	939.0	952.4	1010.1
57.5°	912.1	706.7	674.0	457.0	529.9	578.0	691.3	869.9	873.7	885.3	940.9
60°	796.9	510.8	618.3	401.4	451.3	487.7	626.0	796.9	810.4	818.0	866.0
62.5°	666.3	370.6	560.7	362.9	412.9	420.5	572.2	727.8	745.1	750.8	779.7
65°	474.3	311.0	476.3	330.2	372.5	374.4	514.6	656.7	672.1	681.7	702.8
67.5°	320.6	253.5	362.9	299.5	341.8	343.7	458.9	574.1	595.3	602.9	616.4
70°	222.8	169.0	268.8	267.0	307.3	311.0	399.4	499.2	518.5	524.2	531.9
72.5°	163.2	136.3	222.8	240.0	270.7	274.6	338.0	414.7	434.0	439.7	443.6
75°	124.8	144.0	180.5	209.3	230.4	232.4	276.6	338.0	351.4	355.2	357.2
77.5°	99.8	134.4	132.5	169.0	188.2	184.3	217.0	261.1	272.7	272.7	272.7
80°	74.9	105.6	99.8	120.9	138.3	134.4	155.5	186.2	190.1	193.9	192.1
82.5°	55.7	67.2	67.2	76.8	92.2	88.4	103.7	120.9	120.9	120.9	124.8
85°	34.6	38.4	30.7	40.3	51.8	49.9	57.7	65.3	67.2	67.2	63.4
87.5°	21.1	17.2	9.6	15.4	23.1	23.1	26.8	28.8	26.8	26.8	26.8
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.1
92.5°	52.7	32.4	12.0	32.4	52.7	57.8	81.3	112.6	128.2	112.3	80.6
95°	103.3	66.0	28.8	66.0	103.3	112.6	200.0	316.6	374.8	334.5	253.8
97.5°	115.5	82.7	49.7	82.7	115.5	123.7	269.5	463.8	560.9	535.4	484.3
100°	125.6	95.7	65.9	95.7	125.6	133.0	294.7	510.3	618.0	619.9	623.6
102.5°	135.4	107.6	79.7	107.6	135.4	142.3	306.3	524.9	634.2	666.7	731.7
105°	150.2	126.6	103.1	126.6	150.2	156.1	314.8	526.6	632.4	705.2	850.9
107.5°	170.9	149.0	127.0	149.0	170.9	176.5	316.5	503.1	596.4	698.0	901.2
110°	182.9	163.0	143.2	163.0	182.9	187.8	314.1	482.4	566.5	680.0	907.3



TEST NUMBER: P934499

CATALOG NUMBER: SQ4-FA-050U-100D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	196.9	178.0	159.1	178.0	196.9	201.6	314.1	464.2	539.2	655.5	888.0
115°	217.9	200.5	183.0	200.5	217.9	222.3	317.1	443.4	506.6	618.6	842.5
117.5°	238.4	222.6	206.7	222.6	238.4	242.3	323.0	430.4	484.1	585.2	787.3
120°	250.3	235.4	220.4	235.4	250.3	254.1	327.7	426.0	475.1	567.4	752.1
122.5°	264.1	249.0	234.0	249.0	264.1	267.8	334.6	423.6	468.2	551.4	717.7
125°	282.1	268.3	254.7	268.3	282.1	285.5	343.9	421.8	460.8	531.4	672.7
127.5°	299.1	285.3	271.4	285.3	299.1	302.6	353.2	420.7	454.5	515.1	636.3
130°	310.3	295.4	280.4	295.4	310.3	314.0	360.0	421.3	452.0	506.0	614.1
132.5°	319.6	304.7	289.7	304.7	319.6	323.3	365.5	421.8	450.0	498.4	595.0
135°	330.6	317.1	303.5	317.1	330.6	334.0	371.5	421.4	446.4	486.9	567.8
137.5°	344.4	331.0	317.5	331.0	344.4	347.8	380.4	423.9	445.7	479.9	548.4
140°	354.0	341.7	329.3	341.7	354.0	357.1	386.0	424.4	443.7	473.3	532.4
142.5°	361.0	349.6	338.2	349.6	361.0	364.0	390.5	426.0	443.7	469.7	521.5
145°	372.0	362.0	352.0	362.0	372.0	374.5	396.6	426.0	440.7	461.9	504.4
147.5°	385.3	375.5	365.8	375.5	385.3	387.7	405.3	428.9	440.7	457.4	490.8
150°	392.3	383.6	374.8	383.6	392.3	394.6	410.0	430.4	440.7	454.8	483.0
152.5°	397.4	390.7	384.0	390.7	397.4	399.0	412.9	431.4	440.7	452.7	476.8
155°	407.7	402.8	397.9	402.8	407.7	408.9	419.5	433.6	440.7	450.3	469.5
157.5°	417.6	412.8	408.0	412.8	417.6	418.8	426.1	435.9	440.7	448.2	463.1
160°	422.3	418.6	414.9	418.6	422.3	423.3	429.1	436.8	440.7	447.1	459.9
162.5°	427.4	424.6	421.8	424.6	427.4	428.1	432.3	437.9	440.7	446.1	456.9
165°	434.3	431.8	429.3	431.8	434.3	435.0	436.9	439.4	440.7	444.6	452.2
167.5°	438.6	437.3	436.1	437.3	438.6	438.9	440.5	442.6	443.7	446.2	451.3
170°	443.1	441.9	440.7	441.9	443.1	443.4	443.5	443.6	443.7	446.2	451.3
172.5°	443.6	443.4	443.1	443.4	443.6	443.7	443.7	443.7	443.7	445.6	449.6
175°	446.4	446.4	446.4	446.4	446.4	446.4	445.5	444.3	443.7	445.0	447.5
177.5°	446.4	446.4	446.4	446.4	446.4	446.4	445.7	444.8	444.3	445.3	447.3
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4



TEST NUMBER: P934499

CATALOG NUMBER: SQ4-FA-050U-100D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	1958.6	1952.9	1960.6	1939.5	1960.6	1952.9	1958.6	1972.1	1960.6	1968.2	1975.9
5°	1718.6	1709.0	1678.3	1653.3	1678.3	1709.0	1718.6	1758.9	1778.1	1812.7	1858.8
7.5°	1536.2	1528.5	1520.8	1505.4	1520.8	1528.5	1536.2	1547.7	1566.9	1597.7	1632.2
10°	1495.8	1497.8	1509.3	1507.4	1509.3	1497.8	1495.8	1492.1	1486.3	1492.1	1513.2
12.5°	1599.5	1616.9	1680.2	1676.4	1680.2	1616.9	1599.5	1522.8	1470.9	1461.3	1465.1
15°	1718.6	1724.3	1737.8	1739.7	1737.8	1724.3	1718.6	1687.9	1532.4	1465.1	1444.0
17.5°	1730.1	1732.1	1741.7	1741.7	1741.7	1732.1	1730.1	1716.7	1664.8	1574.6	1455.5
20°	1720.6	1724.3	1743.6	1747.4	1743.6	1724.3	1720.6	1703.2	1674.4	1641.8	1551.6
22.5°	1716.7	1724.3	1739.7	1737.8	1739.7	1724.3	1716.7	1689.8	1664.8	1641.8	1605.3
25°	1697.5	1697.5	1699.4	1701.4	1699.4	1697.5	1697.5	1676.4	1626.5	1620.7	1599.5
27.5°	1657.2	1661.0	1672.5	1670.7	1672.5	1661.0	1657.2	1649.5	1595.7	1589.9	1574.6
30°	1620.7	1616.9	1607.3	1599.5	1607.3	1616.9	1620.7	1609.1	1555.4	1540.0	1543.9
32.5°	1559.2	1549.6	1540.0	1534.3	1540.0	1549.6	1559.2	1555.4	1515.0	1493.9	1497.8
35°	1486.3	1488.2	1486.3	1480.5	1486.3	1488.2	1486.3	1490.1	1465.1	1445.9	1444.0
37.5°	1434.4	1438.3	1436.3	1428.7	1436.3	1438.3	1434.4	1430.5	1396.0	1390.2	1394.1
40°	1380.6	1382.6	1380.6	1374.9	1380.6	1382.6	1380.6	1373.0	1325.0	1326.9	1340.3
42.5°	1328.8	1326.9	1321.1	1317.3	1321.1	1326.9	1328.8	1317.3	1255.8	1250.1	1275.0
45°	1269.3	1271.2	1259.7	1253.9	1259.7	1271.2	1269.3	1261.6	1198.3	1182.9	1200.1
47.5°	1209.8	1209.8	1200.1	1194.4	1200.1	1209.8	1209.8	1200.1	1133.0	1117.5	1127.1
50°	1146.4	1144.5	1131.0	1129.1	1131.0	1144.5	1146.4	1140.6	1069.6	1056.1	1056.1
52.5°	1073.5	1073.5	1075.3	1079.2	1075.3	1073.5	1073.5	1075.3	1011.9	998.6	994.7
55°	1010.1	1011.9	1025.4	1029.3	1025.4	1011.9	1010.1	1010.1	952.4	939.0	931.3
57.5°	944.8	944.8	954.4	954.4	954.4	944.8	944.8	940.9	885.3	873.7	869.9
60°	869.9	873.7	881.4	879.5	881.4	873.7	869.9	866.0	818.0	810.4	796.9
62.5°	791.1	795.0	796.9	793.0	796.9	795.0	791.1	779.7	750.8	745.1	727.8
65°	708.5	712.4	714.3	710.5	714.3	712.4	708.5	702.8	681.7	672.1	656.7
67.5°	624.0	622.2	620.3	627.9	620.3	622.2	624.0	616.4	602.9	595.3	574.1
70°	537.7	537.7	535.8	539.5	535.8	537.7	537.7	531.9	524.2	518.5	499.2
72.5°	445.4	443.6	451.3	445.4	451.3	443.6	445.4	443.6	439.7	434.0	414.7
75°	355.2	359.1	355.2	361.0	355.2	359.1	355.2	357.2	355.2	351.4	338.0
77.5°	270.7	274.6	270.7	270.7	270.7	274.6	270.7	272.7	272.7	272.7	261.1
80°	192.1	190.1	190.1	188.2	190.1	190.1	192.1	192.1	193.9	190.1	186.2
82.5°	122.9	120.9	120.9	124.8	120.9	120.9	122.9	124.8	120.9	120.9	120.9
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	23.1	23.1	23.1	23.1	23.1	25.0	26.8	26.8	26.8	28.8
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.1	20.3	22.8	19.6
92.5°	56.9	54.7	45.5	36.5	45.5	54.7	56.9	80.6	112.3	128.2	112.6
95°	193.2	186.3	158.9	131.5	158.9	186.3	193.2	253.8	334.5	374.8	316.6
97.5°	446.0	432.9	380.8	328.7	380.8	432.9	446.0	484.3	535.4	560.9	463.8
100°	626.5	611.0	548.7	486.5	548.7	611.0	626.5	623.6	619.9	618.0	510.3
102.5°	780.4	767.2	713.9	660.6	713.9	767.2	780.4	731.7	666.7	634.2	524.9
105°	960.2	953.0	924.4	895.7	924.4	953.0	960.2	850.9	705.2	632.4	526.6
107.5°	1053.6	1055.3	1062.2	1069.2	1062.2	1055.3	1053.6	901.2	698.0	596.4	503.1
110°	1077.6	1085.1	1114.8	1144.7	1114.8	1085.1	1077.6	907.3	680.0	566.5	482.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1062.3	1073.7	1119.6	1165.3	1119.6	1073.7	1062.3	888.0	655.5	539.2	464.2
115°	1010.5	1026.4	1089.8	1153.4	1089.8	1026.4	1010.5	842.5	618.6	506.6	443.4
117.5°	938.9	956.5	1026.9	1097.4	1026.9	956.5	938.9	787.3	585.2	484.1	430.4
120°	890.6	907.8	976.2	1044.7	976.2	907.8	890.6	752.1	567.4	475.1	426.0
122.5°	842.4	859.3	926.8	994.3	926.8	859.3	842.4	717.7	551.4	468.2	423.6
125°	778.6	794.1	856.3	918.5	856.3	794.1	778.6	672.7	531.4	460.8	421.8
127.5°	727.3	740.4	792.9	845.5	792.9	740.4	727.3	636.3	515.1	454.5	420.7
130°	695.1	707.2	755.6	804.1	755.6	707.2	695.1	614.1	506.0	452.0	421.3
132.5°	667.4	678.3	721.7	765.1	721.7	678.3	667.4	595.0	498.4	450.0	421.8
135°	628.5	637.9	675.3	712.7	675.3	637.9	628.5	567.8	486.9	446.4	421.4
137.5°	599.7	607.4	638.1	668.7	638.1	607.4	599.7	548.4	479.9	445.7	423.9
140°	576.7	583.8	612.4	641.1	612.4	583.8	576.7	532.4	473.3	443.7	424.4
142.5°	560.5	566.7	591.3	615.9	591.3	566.7	560.5	521.5	469.7	443.7	426.0
145°	536.2	540.9	559.6	578.2	559.6	540.9	536.2	504.4	461.9	440.7	426.0
147.5°	515.9	519.8	535.2	550.6	535.2	519.8	515.9	490.8	457.4	440.7	428.9
150°	504.2	507.3	519.9	532.4	519.9	507.3	504.2	483.0	454.8	440.7	430.4
152.5°	494.9	497.2	506.7	516.2	506.7	497.2	494.9	476.8	452.7	440.7	431.4
155°	483.8	485.4	491.7	497.9	491.7	485.4	483.8	469.5	450.3	440.7	433.6
157.5°	474.2	475.3	479.8	484.1	479.8	475.3	474.2	463.1	448.2	440.7	435.9
160°	469.5	470.1	472.6	475.1	472.6	470.1	469.5	459.9	447.1	440.7	436.8
162.5°	464.9	465.5	467.9	470.4	467.9	465.5	464.9	456.9	446.1	440.7	437.9
165°	458.0	458.7	461.2	463.8	461.2	458.7	458.0	452.2	444.6	440.7	439.4
167.5°	455.0	455.3	456.4	457.5	456.4	455.3	455.0	451.3	446.2	443.7	442.6
170°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	451.3	446.2	443.7	443.6
172.5°	452.6	452.4	451.5	450.6	451.5	452.4	452.6	449.6	445.6	443.7	443.7
175°	449.3	449.3	449.3	449.3	449.3	449.3	449.3	447.5	445.0	443.7	444.3
177.5°	448.7	448.5	447.5	446.4	447.5	448.5	448.7	447.3	445.3	444.3	444.8
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2004.8	2014.4	2020.1	2027.7	2047.0
5°	1927.9	1964.5	1975.9	2004.8	2039.3
7.5°	1758.9	1870.3	1901.1	1970.2	2024.0
10°	1595.7	1707.1	1760.9	1924.0	2004.8
12.5°	1513.2	1578.4	1614.9	1843.4	1977.8
15°	1461.3	1507.4	1534.3	1735.9	1947.1
17.5°	1420.9	1453.6	1472.8	1630.2	1904.9
20°	1396.0	1411.3	1428.7	1553.5	1856.9
22.5°	1378.7	1369.1	1382.6	1499.7	1791.6
25°	1367.3	1330.7	1346.1	1457.5	1714.7
27.5°	1376.9	1296.1	1301.9	1419.1	1634.1
30°	1378.7	1253.9	1255.8	1378.7	1543.9
32.5°	1365.3	1209.8	1211.6	1328.8	1442.1
35°	1332.7	1157.9	1156.0	1271.2	1303.9
37.5°	1288.5	1102.2	1102.2	1207.9	1152.1
40°	1234.7	1046.5	1052.3	1125.3	1017.7
42.5°	1169.4	987.0	994.7	1015.8	917.8
45°	1098.4	929.4	935.2	858.3	841.1
47.5°	1019.7	869.9	871.8	712.4	816.1
50°	925.6	808.4	800.8	610.7	814.2
52.5°	843.0	741.2	718.1	553.0	739.3
55°	762.3	670.2	620.3	508.8	685.6
57.5°	691.3	578.0	529.9	457.0	674.0
60°	626.0	487.7	451.3	401.4	618.3
62.5°	572.2	420.5	412.9	362.9	560.7
65°	514.6	374.4	372.5	330.2	476.3
67.5°	458.9	343.7	341.8	299.5	362.9
70°	399.4	311.0	307.3	267.0	268.8
72.5°	338.0	274.6	270.7	240.0	222.8
75°	276.6	232.4	230.4	209.3	180.5
77.5°	217.0	184.3	188.2	169.0	132.5
80°	155.5	134.4	138.3	120.9	99.8
82.5°	103.7	88.4	92.2	76.8	67.2
85°	57.7	49.9	51.8	40.3	30.7
87.5°	26.8	23.1	23.1	15.4	9.6
90°	13.2	8.4	7.8	5.4	3.0
92.5°	81.3	57.8	52.7	32.4	12.0
95°	200.0	112.6	103.3	66.0	28.8
97.5°	269.5	123.7	115.5	82.7	49.7
100°	294.7	133.0	125.6	95.7	65.9
102.5°	306.3	142.3	135.4	107.6	79.7
105°	314.8	156.1	150.2	126.6	103.1
107.5°	316.5	176.5	170.9	149.0	127.0
110°	314.1	187.8	182.9	163.0	143.2



TEST NUMBER: P934499

CATALOG NUMBER: SQ4-FA-050U-100D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	314.1	201.6	196.9	178.0	159.1
115°	317.1	222.3	217.9	200.5	183.0
117.5°	323.0	242.3	238.4	222.6	206.7
120°	327.7	254.1	250.3	235.4	220.4
122.5°	334.6	267.8	264.1	249.0	234.0
125°	343.9	285.5	282.1	268.3	254.7
127.5°	353.2	302.6	299.1	285.3	271.4
130°	360.0	314.0	310.3	295.4	280.4
132.5°	365.5	323.3	319.6	304.7	289.7
135°	371.5	334.0	330.6	317.1	303.5
137.5°	380.4	347.8	344.4	331.0	317.5
140°	386.0	357.1	354.0	341.7	329.3
142.5°	390.5	364.0	361.0	349.6	338.2
145°	396.6	374.5	372.0	362.0	352.0
147.5°	405.3	387.7	385.3	375.5	365.8
150°	410.0	394.6	392.3	383.6	374.8
152.5°	412.9	399.0	397.4	390.7	384.0
155°	419.5	408.9	407.7	402.8	397.9
157.5°	426.1	418.8	417.6	412.8	408.0
160°	429.1	423.3	422.3	418.6	414.9
162.5°	432.3	428.1	427.4	424.6	421.8
165°	436.9	435.0	434.3	431.8	429.3
167.5°	440.5	438.9	438.6	437.3	436.1
170°	443.5	443.4	443.1	441.9	440.7
172.5°	443.7	443.7	443.6	443.4	443.1
175°	445.5	446.4	446.4	446.4	446.4
177.5°	445.7	446.4	446.4	446.4	446.4
180°	446.4	446.4	446.4	446.4	446.4



TEST NUMBER: P934499
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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	14.84	15.84	15.66	16.69	17.74	17.66	18.67	18.48	19.51	20.56
	3H	15.32	16.23	16.16	17.08	18.16	19.02	19.92	19.85	20.77	21.85
	4H	15.52	16.38	16.37	17.24	18.32	19.47	20.32	20.32	21.18	22.27
	6H	15.65	16.44	16.51	17.31	18.40	19.76	20.54	20.62	21.41	22.51
	8H	15.65	16.40	16.53	17.29	18.39	19.83	20.59	20.71	21.47	22.57
	12H	15.63	16.35	16.51	17.23	18.35	19.88	20.59	20.76	21.47	22.60
4H	2H	15.89	16.74	16.74	17.60	18.69	18.09	18.94	18.94	19.80	20.89
	3H	16.93	17.64	17.79	18.53	19.63	19.61	20.32	20.47	21.21	22.31
	4H	17.21	17.86	18.09	18.75	19.88	20.14	20.79	21.02	21.68	22.81
	6H	17.34	17.90	18.24	18.82	19.95	20.51	21.07	21.41	21.99	23.12
	8H	17.35	17.87	18.25	18.78	19.93	20.62	21.14	21.52	22.05	23.20
	12H	17.33	17.80	18.24	18.72	19.87	20.68	21.15	21.60	22.08	23.23
8H	4H	17.67	18.20	18.57	19.11	20.25	20.28	20.80	21.17	21.71	22.85
	6H	17.94	18.37	18.87	19.32	20.47	20.72	21.15	21.64	22.10	23.24
	8H	17.98	18.37	18.92	19.31	20.47	20.87	21.25	21.80	22.20	23.36
	12H	17.98	18.31	18.91	19.25	20.46	20.97	21.31	21.91	22.25	23.46
12H	4H	17.69	18.16	18.60	19.09	20.23	20.25	20.72	21.16	21.65	22.80
	6H	18.00	18.39	18.94	19.33	20.49	20.71	21.10	21.65	22.04	23.20
	8H	18.08	18.41	19.01	19.35	20.56	20.88	21.22	21.82	22.15	23.37