

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: P934368

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934368
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

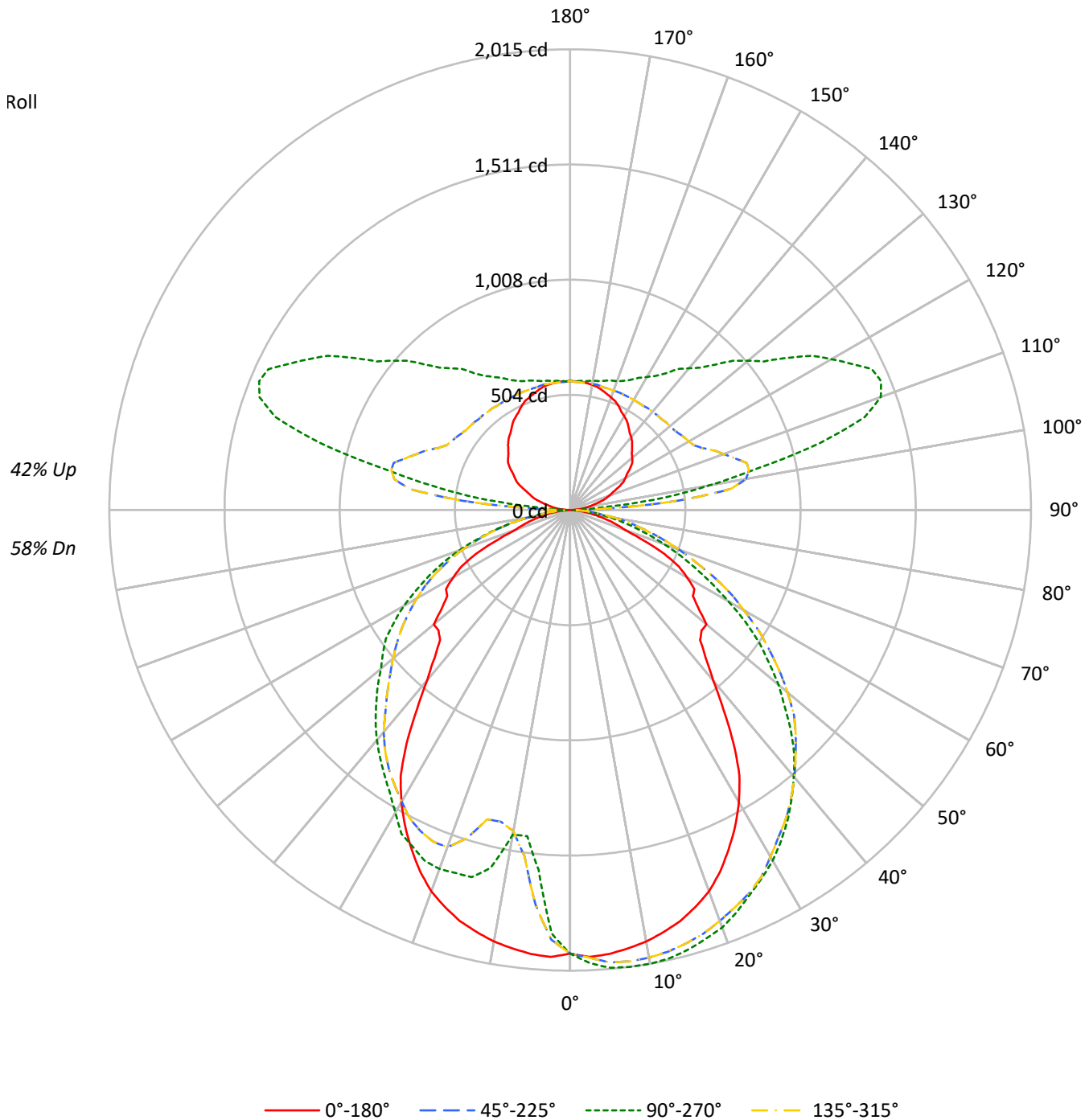
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8686.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 72.8
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	
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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9000	9000	9000	9000
5°	9068	9086	9068	7144
10°	9007	8950	9007	6398
15°	8909	8756	8909	7311
20°	8723	8526	8723	7326
25°	8341	8191	8341	7171
30°	7849	7913	7849	6830
35°	6997	7561	6997	6456
40°	5831	7147	5831	6172
45°	5210	6662	5210	5847
50°	5535	6084	5535	5521
55°	5207	5461	5207	5332
60°	5368	4638	5368	4883
65°	4867	3834	4867	4286
70°	3371	3056	3371	3592
75°	2954	2259	2954	2705
80°	2380	1493	2380	1626
85°	1369	791	1369	672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7984 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	2.0
10°-20°	497.2	5.7
20°-30°	768.6	8.8
30°-40°	917.5	10.6
40°-50°	922.9	10.6
50°-60°	803.0	9.2
60°-70°	569.4	6.6
70°-80°	301.2	3.5
80°-90°	77.2	0.9
90°-100°	274.8	3.2
100°-110°	722.3	8.3
110°-120°	749.0	8.6
120°-130°	600.8	6.9
130°-140°	471.4	5.4
140°-150°	361.8	4.2
150°-160°	260.6	3.0
160°-170°	159.4	1.8
170°-180°	53.9	0.6
0°-30°	1440.9	16.6
0°-40°	2358.3	27.2
0°-60°	4084.3	47.0
0°-90°	5032.0	57.9
90°-120°	1746.1	20.1
90°-150°	3180.1	36.6
90°-180°	3654.0	42.1
0°-180°	8686.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1940	1940	1940	1940	1940	
5°	1949	2010	1949	1580	1949	185
15°	1861	1991	1861	1663	1861	524
25°	1639	1857	1639	1626	1639	753
35°	1246	1657	1246	1415	1246	771
45°	804	1365	804	1198	804	644
55°	655	1008	655	984	655	602
65°	455	608	455	679	455	435
75°	172	288	172	345	172	181
85°	29	73	29	62	29	40
90°	4	14	4	14	4	4
95°	36	166	36	166	36	40
105°	130	1131	130	1131	130	138
115°	231	1456	231	1456	231	228
125°	322	1160	322	1160	322	285
135°	383	900	383	900	383	296
145°	444	730	444	730	444	278
155°	502	629	502	629	502	231
165°	542	586	542	586	542	153
175°	564	567	564	567	564	54
180°	564	564	564	564	564	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9
2.5°	1956.4	1956.4	1967.4	1971.1	1971.1	1965.6	1960.1	1965.6	1982.1	1987.6	1985.8
5°	1949.1	1963.8	1984.0	1987.6	1991.3	1989.5	1985.8	1989.5	2007.8	2011.5	2013.3
7.5°	1934.4	1961.9	1987.6	1993.1	1998.6	1993.1	1991.3	1995.0	2013.3	2017.0	2017.0
10°	1916.1	1954.6	1984.0	1987.6	1993.1	1987.6	1987.6	1995.0	2013.3	2017.0	2018.8
12.5°	1890.4	1943.6	1971.1	1974.8	1982.1	1980.3	1978.5	1985.8	2004.2	2007.8	2007.8
15°	1861.0	1923.4	1949.1	1952.8	1965.6	1961.9	1961.9	1969.3	1989.5	1995.0	1993.1
17.5°	1820.6	1897.7	1927.1	1932.6	1941.8	1939.9	1941.8	1949.1	1967.4	1971.1	1973.0
20°	1774.7	1862.8	1897.7	1903.2	1912.4	1912.4	1912.4	1921.6	1939.9	1947.3	1947.3
22.5°	1712.3	1826.1	1862.8	1866.5	1877.5	1877.5	1881.2	1894.0	1910.5	1912.4	1912.4
25°	1638.9	1785.7	1816.9	1828.0	1839.0	1844.5	1850.0	1857.3	1862.8	1861.0	1862.8
27.5°	1561.8	1734.4	1774.7	1782.1	1796.8	1802.3	1809.6	1811.4	1813.3	1818.8	1815.1
30°	1475.6	1662.8	1723.3	1730.7	1754.5	1758.2	1750.9	1754.5	1763.7	1767.4	1771.1
32.5°	1378.3	1556.3	1670.1	1686.6	1708.7	1697.6	1695.8	1701.3	1716.0	1716.0	1719.7
35°	1246.1	1473.7	1620.6	1635.2	1651.8	1638.9	1646.3	1648.1	1657.3	1662.8	1660.9
37.5°	1101.1	1402.1	1569.2	1580.2	1593.0	1576.5	1587.5	1593.0	1600.4	1596.7	1596.7
40°	972.8	1290.2	1508.6	1515.9	1527.0	1514.1	1525.1	1528.8	1532.5	1528.8	1527.0
42.5°	877.3	1167.2	1444.4	1453.5	1446.2	1455.4	1459.0	1466.4	1460.9	1453.5	1453.5
45°	803.9	1134.2	1374.6	1385.6	1374.6	1389.3	1394.8	1394.8	1378.3	1374.6	1372.8
47.5°	780.0	1068.2	1304.9	1304.9	1299.4	1317.7	1326.9	1314.0	1297.5	1292.0	1292.0
50°	778.2	994.8	1209.4	1202.1	1227.8	1249.8	1240.6	1227.8	1214.9	1194.7	1194.7
52.5°	706.6	904.8	1086.6	1114.0	1154.4	1167.2	1152.5	1139.7	1117.7	1108.5	1101.1
55°	655.2	811.2	974.6	1029.7	1071.9	1088.4	1060.9	1048.0	1015.0	1009.5	1005.8
57.5°	644.2	675.4	871.8	941.6	992.9	991.1	974.6	950.7	923.2	917.7	915.9
60°	591.0	488.2	761.7	844.3	897.5	892.0	877.3	855.3	829.6	825.9	822.3
62.5°	535.9	354.2	636.9	730.5	805.7	803.9	791.1	758.0	739.7	730.5	723.1
65°	455.2	297.3	453.3	607.5	715.8	719.5	691.9	668.1	647.9	636.9	635.0
67.5°	346.9	242.3	306.5	506.6	629.5	625.9	591.0	580.0	554.3	548.8	537.8
70°	257.0	161.5	212.9	411.1	545.1	535.9	508.4	495.6	471.7	458.8	451.5
72.5°	212.9	130.3	156.0	319.4	458.8	447.8	424.0	409.3	389.1	378.1	370.7
75°	172.5	137.7	119.3	236.8	372.6	365.2	343.2	328.5	312.0	297.3	299.2
77.5°	126.6	128.5	95.4	174.4	295.5	284.5	271.6	253.3	245.9	231.3	231.3
80°	95.4	100.9	71.6	119.3	212.9	212.9	201.9	189.0	176.2	168.9	168.9
82.5°	64.2	64.2	53.2	75.3	145.0	139.5	132.1	128.5	121.1	117.5	117.5
85°	29.4	36.7	33.0	45.9	78.9	82.6	82.6	78.9	77.1	73.4	75.3
87.5°	9.2	16.5	20.2	25.7	40.4	42.2	44.0	44.0	44.0	45.9	45.9
90°	3.8	6.8	9.8	10.6	16.6	24.7	28.7	25.5	19.2	14.4	14.4
92.5°	15.1	40.8	66.6	73.0	102.7	142.2	161.9	141.9	101.9	71.9	69.0
95°	36.3	83.4	130.5	142.2	252.5	399.7	473.3	422.3	320.5	244.0	235.4
97.5°	62.8	104.3	145.8	156.2	340.2	585.5	708.2	676.0	611.6	563.3	546.8
100°	83.2	120.9	158.5	167.9	372.1	644.3	780.4	782.8	787.5	791.0	771.3
102.5°	100.7	135.8	170.9	179.7	386.7	662.9	800.9	841.9	923.9	985.4	968.6
105°	130.1	159.9	189.7	197.1	397.6	665.0	798.6	890.5	1074.5	1212.5	1203.4
107.5°	160.4	188.1	215.8	222.8	399.6	635.3	753.2	881.4	1138.0	1330.5	1332.7
110°	180.8	205.8	231.0	237.2	396.6	609.1	715.3	858.8	1145.6	1360.7	1370.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	200.9	224.7	248.6	254.6	396.7	586.2	680.9	827.7	1121.2	1341.4	1355.9
115°	231.2	253.2	275.2	280.7	400.4	560.0	639.7	781.1	1063.9	1276.0	1296.0
117.5°	261.0	281.0	301.0	306.1	407.8	543.5	611.3	738.9	994.1	1185.6	1207.8
120°	278.4	297.2	316.1	320.8	413.9	538.0	600.0	716.5	949.7	1124.6	1146.2
122.5°	295.4	314.4	333.4	338.2	422.5	535.0	591.3	696.3	906.3	1063.8	1085.1
125°	321.6	338.8	356.2	360.5	434.3	532.6	581.8	671.0	849.4	983.2	1002.9
127.5°	342.8	360.2	377.6	382.0	446.0	531.3	573.8	650.5	803.6	918.5	935.0
130°	354.0	372.9	391.8	396.4	454.5	532.1	570.8	639.0	775.4	877.6	892.9
132.5°	365.8	384.6	403.5	408.2	461.5	532.6	568.2	629.3	751.3	842.8	856.5
135°	383.2	400.4	417.5	421.8	469.0	532.1	563.6	614.8	717.0	793.6	805.5
137.5°	401.0	418.0	435.0	439.2	480.4	535.4	562.9	606.1	692.6	757.4	767.0
140°	415.7	431.4	447.0	451.0	487.4	535.9	560.3	597.6	672.2	728.2	737.2
142.5°	427.1	441.5	456.0	459.6	493.2	537.9	560.3	593.0	658.6	707.8	715.6
145°	444.5	457.1	469.8	472.9	500.8	538.0	556.5	583.3	637.0	677.2	683.0
147.5°	461.9	474.2	486.5	489.5	511.8	541.6	556.5	577.6	619.7	651.4	656.2
150°	473.3	484.4	495.5	498.2	517.7	543.6	556.5	574.3	610.0	636.7	640.6
152.5°	485.0	493.4	501.8	503.9	521.4	544.8	556.5	571.7	602.1	625.0	628.0
155°	502.3	508.6	514.8	516.4	529.8	547.6	556.5	568.6	592.7	610.9	612.9
157.5°	515.2	521.3	527.3	528.9	538.0	550.3	556.5	565.9	584.7	598.8	600.2
160°	523.9	528.7	533.4	534.6	541.9	551.6	556.5	564.6	580.6	592.7	593.6
162.5°	532.6	536.2	539.7	540.6	545.9	553.0	556.5	563.3	577.0	587.1	587.9
165°	542.1	545.3	548.4	549.2	551.6	554.8	556.5	561.4	571.1	578.4	579.2
167.5°	550.8	552.3	553.8	554.2	556.2	558.9	560.3	563.5	569.9	574.7	575.0
170°	556.5	558.0	559.5	559.9	560.0	560.2	560.3	563.5	569.9	574.7	574.7
172.5°	559.5	559.9	560.2	560.3	560.3	560.3	560.3	562.8	567.9	571.6	571.4
175°	563.6	563.6	563.6	563.6	562.5	561.0	560.3	561.8	565.0	567.4	567.4
177.5°	563.6	563.6	563.6	563.6	562.7	561.5	561.0	562.3	564.7	566.7	566.3
180°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9
2.5°	1989.5	1984.0	1989.5	1985.8	1987.6	1982.1	1965.6	1960.1	1965.6	1971.1	1971.1
5°	2013.3	2009.7	2013.3	2013.3	2011.5	2007.8	1989.5	1985.8	1989.5	1991.3	1987.6
7.5°	2020.7	2015.2	2020.7	2017.0	2017.0	2013.3	1995.0	1991.3	1993.1	1998.6	1993.1
10°	2020.7	2015.2	2020.7	2018.8	2017.0	2013.3	1995.0	1987.6	1987.6	1993.1	1987.6
12.5°	2011.5	2007.8	2011.5	2007.8	2007.8	2004.2	1985.8	1978.5	1980.3	1982.1	1974.8
15°	1996.8	1991.3	1996.8	1993.1	1995.0	1989.5	1969.3	1961.9	1961.9	1965.6	1952.8
17.5°	1974.8	1967.4	1974.8	1973.0	1971.1	1967.4	1949.1	1941.8	1939.9	1941.8	1932.6
20°	1949.1	1943.6	1949.1	1947.3	1947.3	1939.9	1921.6	1912.4	1912.4	1912.4	1903.2
22.5°	1908.7	1903.2	1908.7	1912.4	1912.4	1910.5	1894.0	1881.2	1877.5	1877.5	1866.5
25°	1862.8	1857.3	1862.8	1862.8	1861.0	1862.8	1857.3	1850.0	1844.5	1839.0	1828.0
27.5°	1818.8	1815.1	1818.8	1815.1	1818.8	1813.3	1811.4	1809.6	1802.3	1796.8	1782.1
30°	1774.7	1771.1	1774.7	1771.1	1767.4	1763.7	1754.5	1750.9	1758.2	1754.5	1730.7
32.5°	1719.7	1716.0	1719.7	1719.7	1716.0	1716.0	1701.3	1695.8	1697.6	1708.7	1686.6
35°	1662.8	1657.3	1662.8	1660.9	1662.8	1657.3	1648.1	1646.3	1638.9	1651.8	1635.2
37.5°	1596.7	1591.2	1596.7	1596.7	1596.7	1600.4	1593.0	1587.5	1576.5	1593.0	1580.2
40°	1528.8	1521.4	1528.8	1527.0	1528.8	1532.5	1528.8	1525.1	1514.1	1527.0	1515.9
42.5°	1451.7	1449.9	1451.7	1453.5	1453.5	1460.9	1466.4	1459.0	1455.4	1446.2	1453.5
45°	1369.1	1365.4	1369.1	1372.8	1374.6	1378.3	1394.8	1394.8	1389.3	1374.6	1385.6
47.5°	1281.0	1271.8	1281.0	1292.0	1292.0	1297.5	1314.0	1326.9	1317.7	1299.4	1304.9
50°	1187.4	1189.2	1187.4	1194.7	1194.7	1214.9	1227.8	1240.6	1249.8	1227.8	1202.1
52.5°	1095.6	1093.9	1095.6	1101.1	1108.5	1117.7	1139.7	1152.5	1167.2	1154.4	1114.0
55°	1004.0	1007.6	1004.0	1005.8	1009.5	1015.0	1048.0	1060.9	1088.4	1071.9	1029.7
57.5°	912.2	906.7	912.2	915.9	917.7	923.2	950.7	974.6	991.1	992.9	941.6
60°	805.7	798.4	805.7	822.3	825.9	829.6	855.3	877.3	892.0	897.5	844.3
62.5°	712.1	699.3	712.1	723.1	730.5	739.7	758.0	791.1	803.9	805.7	730.5
65°	613.0	607.5	613.0	635.0	636.9	647.9	668.1	691.9	719.5	715.8	607.5
67.5°	523.1	523.1	523.1	537.8	548.8	554.3	580.0	591.0	625.9	629.5	506.6
70°	440.5	438.7	440.5	451.5	458.8	471.7	495.6	508.4	535.9	545.1	411.1
72.5°	361.6	359.7	361.6	370.7	378.1	389.1	409.3	424.0	447.8	458.8	319.4
75°	291.8	288.2	291.8	299.2	297.3	312.0	328.5	343.2	365.2	372.6	236.8
77.5°	223.9	223.9	223.9	231.3	231.3	245.9	253.3	271.6	284.5	295.5	174.4
80°	167.0	165.2	167.0	168.9	168.9	176.2	189.0	201.9	212.9	212.9	119.3
82.5°	117.5	113.8	117.5	117.5	117.5	121.1	128.5	132.1	139.5	145.0	75.3
85°	73.4	73.4	73.4	75.3	73.4	77.1	78.9	82.6	82.6	78.9	45.9
87.5°	47.7	45.9	47.7	45.9	45.9	44.0	44.0	44.0	42.2	40.4	25.7
90°	14.4	14.4	14.4	14.4	14.4	19.2	25.5	28.7	24.7	16.6	10.6
92.5°	57.5	46.2	57.5	69.0	71.9	101.9	141.9	161.9	142.2	102.7	73.0
95°	200.7	166.1	200.7	235.4	244.0	320.5	422.3	473.3	399.7	252.5	142.2
97.5°	480.9	415.0	480.9	546.8	563.3	611.6	676.0	708.2	585.5	340.2	156.2
100°	692.9	614.3	692.9	771.3	791.0	787.5	782.8	780.4	644.3	372.1	167.9
102.5°	901.4	834.1	901.4	968.6	985.4	923.9	841.9	800.9	662.9	386.7	179.7
105°	1167.2	1131.1	1167.2	1203.4	1212.5	1074.5	890.5	798.6	665.0	397.6	197.1
107.5°	1341.4	1350.1	1341.4	1332.7	1330.5	1138.0	881.4	753.2	635.3	399.6	222.8
110°	1407.7	1445.5	1407.7	1370.1	1360.7	1145.6	858.8	715.3	609.1	396.6	237.2



TEST NUMBER: P934368

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1413.7	1471.5	1413.7	1355.9	1341.4	1121.2	827.7	680.9	586.2	396.7	254.6
115°	1376.2	1456.4	1376.2	1296.0	1276.0	1063.9	781.1	639.7	560.0	400.4	280.7
117.5°	1296.8	1385.7	1296.8	1207.8	1185.6	994.1	738.9	611.3	543.5	407.8	306.1
120°	1232.6	1319.1	1232.6	1146.2	1124.6	949.7	716.5	600.0	538.0	413.9	320.8
122.5°	1170.3	1255.6	1170.3	1085.1	1063.8	906.3	696.3	591.3	535.0	422.5	338.2
125°	1081.3	1159.9	1081.3	1002.9	983.2	849.4	671.0	581.8	532.6	434.3	360.5
127.5°	1001.3	1067.6	1001.3	935.0	918.5	803.6	650.5	573.8	531.3	446.0	382.0
130°	954.1	1015.3	954.1	892.9	877.6	775.4	639.0	570.8	532.1	454.5	396.4
132.5°	911.4	966.1	911.4	856.5	842.8	751.3	629.3	568.2	532.6	461.5	408.2
135°	852.7	900.0	852.7	805.5	793.6	717.0	614.8	563.6	532.1	469.0	421.8
137.5°	805.7	844.4	805.7	767.0	757.4	692.6	606.1	562.9	535.4	480.4	439.2
140°	773.3	809.5	773.3	737.2	728.2	672.2	597.6	560.3	535.9	487.4	451.0
142.5°	746.6	777.7	746.6	715.6	707.8	658.6	593.0	560.3	537.9	493.2	459.6
145°	706.6	730.1	706.6	683.0	677.2	637.0	583.3	556.5	538.0	500.8	472.9
147.5°	675.8	695.3	675.8	656.2	651.4	619.7	577.6	556.5	541.6	511.8	489.5
150°	656.4	672.2	656.4	640.6	636.7	610.0	574.3	556.5	543.6	517.7	498.2
152.5°	639.9	651.8	639.9	628.0	625.0	602.1	571.7	556.5	544.8	521.4	503.9
155°	620.8	628.7	620.8	612.9	610.9	592.7	568.6	556.5	547.6	529.8	516.4
157.5°	605.8	611.3	605.8	600.2	598.8	584.7	565.9	556.5	550.3	538.0	528.9
160°	596.8	600.0	596.8	593.6	592.7	580.6	564.6	556.5	551.6	541.9	534.6
162.5°	590.9	593.9	590.9	587.9	587.1	577.0	563.3	556.5	553.0	545.9	540.6
165°	582.4	585.6	582.4	579.2	578.4	571.1	561.4	556.5	554.8	551.6	549.2
167.5°	576.3	577.7	576.3	575.0	574.7	569.9	563.5	560.3	558.9	556.2	554.2
170°	574.7	574.7	574.7	574.7	574.7	569.9	563.5	560.3	560.2	560.0	559.9
172.5°	570.2	569.0	570.2	571.4	571.6	567.9	562.8	560.3	560.3	560.3	560.3
175°	567.4	567.4	567.4	567.4	567.4	565.0	561.8	560.3	561.0	562.5	563.6
177.5°	565.0	563.6	565.0	566.3	566.7	564.7	562.3	561.0	561.5	562.7	563.6
180°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6



TEST NUMBER: P934368

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9
2.5°	1967.4	1956.4	1956.4	1938.1	1930.7	1925.2	1916.1	1888.5	1881.2	1873.8	1884.9
5°	1984.0	1963.8	1949.1	1916.1	1888.5	1877.5	1842.6	1776.6	1732.5	1699.5	1681.1
7.5°	1987.6	1961.9	1934.4	1883.0	1816.9	1787.6	1681.1	1560.0	1527.0	1497.6	1479.2
10°	1984.0	1954.6	1916.1	1839.0	1683.0	1631.6	1525.1	1446.2	1426.0	1420.5	1426.0
12.5°	1971.1	1943.6	1890.4	1761.9	1543.5	1508.6	1446.2	1400.3	1396.6	1405.8	1455.4
15°	1949.1	1923.4	1861.0	1659.1	1466.4	1440.7	1396.6	1380.1	1400.3	1464.5	1613.2
17.5°	1927.1	1897.7	1820.6	1558.2	1407.7	1389.3	1358.1	1391.1	1504.9	1591.2	1640.7
20°	1897.7	1862.8	1774.7	1484.7	1365.4	1348.9	1334.2	1482.9	1569.2	1600.4	1627.9
22.5°	1862.8	1826.1	1712.3	1433.3	1321.4	1308.5	1317.7	1534.3	1569.2	1591.2	1615.1
25°	1816.9	1785.7	1638.9	1393.0	1286.5	1271.8	1306.7	1528.8	1549.0	1554.5	1602.2
27.5°	1774.7	1734.4	1561.8	1356.3	1244.3	1238.8	1315.9	1504.9	1519.6	1525.1	1576.5
30°	1723.3	1662.8	1475.6	1317.7	1200.3	1198.4	1317.7	1475.6	1471.9	1486.6	1538.0
32.5°	1670.1	1556.3	1378.3	1270.0	1158.0	1156.2	1304.9	1431.5	1427.8	1448.0	1486.6
35°	1620.6	1473.7	1246.1	1214.9	1104.8	1106.6	1273.7	1380.1	1382.0	1400.3	1424.2
37.5°	1569.2	1402.1	1101.1	1154.4	1053.5	1053.5	1231.5	1332.4	1328.7	1334.2	1367.3
40°	1508.6	1290.2	972.8	1075.5	1005.8	1000.3	1180.1	1281.0	1268.2	1266.3	1312.2
42.5°	1444.4	1167.2	877.3	970.9	950.7	943.4	1117.7	1218.6	1194.7	1200.3	1259.0
45°	1374.6	1134.2	803.9	820.4	893.8	888.3	1049.8	1147.0	1130.5	1145.2	1205.8
47.5°	1304.9	1068.2	780.0	680.9	833.3	831.4	974.6	1077.4	1068.2	1082.9	1147.0
50°	1209.4	994.8	778.2	583.7	765.4	772.7	884.7	1009.5	1009.5	1022.3	1090.2
52.5°	1086.6	904.8	706.6	528.6	686.4	708.5	805.7	950.7	954.4	967.3	1027.8
55°	974.6	811.2	655.2	486.4	592.8	640.6	728.6	890.2	897.5	910.4	965.4
57.5°	871.8	675.4	644.2	436.8	506.6	552.5	660.7	831.4	835.1	846.1	899.3
60°	761.7	488.2	591.0	383.6	431.3	466.2	598.3	761.7	774.5	781.9	827.8
62.5°	636.9	354.2	535.9	346.9	394.6	402.0	546.9	695.6	712.1	717.6	745.2
65°	453.3	297.3	455.2	315.7	356.1	357.9	491.9	627.7	642.4	651.6	671.8
67.5°	306.5	242.3	346.9	286.3	326.7	328.5	438.7	548.8	569.0	576.3	589.2
70°	212.9	161.5	257.0	255.1	293.7	297.3	381.8	477.2	495.6	501.1	508.4
72.5°	156.0	130.3	212.9	229.4	258.8	262.5	323.0	396.4	414.8	420.3	424.0
75°	119.3	137.7	172.5	200.1	220.2	222.1	264.3	323.0	335.9	339.5	341.4
77.5°	95.4	128.5	126.6	161.5	179.9	176.2	207.4	249.6	260.6	260.6	260.6
80°	71.6	100.9	95.4	115.6	132.1	128.5	148.7	178.0	181.7	185.4	183.5
82.5°	53.2	64.2	64.2	73.4	88.1	84.4	99.1	115.6	115.6	115.6	119.3
85°	33.0	36.7	29.4	38.5	49.6	47.7	55.1	62.4	64.2	64.2	60.6
87.5°	20.2	16.5	9.2	14.7	22.0	22.0	25.7	27.5	25.7	25.7	25.7
90°	9.8	6.8	3.8	6.8	9.8	10.6	16.6	24.7	28.7	25.5	19.2
92.5°	66.6	40.8	15.1	40.8	66.6	73.0	102.7	142.2	161.9	141.9	101.9
95°	130.5	83.4	36.3	83.4	130.5	142.2	252.5	399.7	473.3	422.3	320.5
97.5°	145.8	104.3	62.8	104.3	145.8	156.2	340.2	585.5	708.2	676.0	611.6
100°	158.5	120.9	83.2	120.9	158.5	167.9	372.1	644.3	780.4	782.8	787.5
102.5°	170.9	135.8	100.7	135.8	170.9	179.7	386.7	662.9	800.9	841.9	923.9
105°	189.7	159.9	130.1	159.9	189.7	197.1	397.6	665.0	798.6	890.5	1074.5
107.5°	215.8	188.1	160.4	188.1	215.8	222.8	399.6	635.3	753.2	881.4	1138.0
110°	231.0	205.8	180.8	205.8	231.0	237.2	396.6	609.1	715.3	858.8	1145.6



TEST NUMBER: P934368

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	248.6	224.7	200.9	224.7	248.6	254.6	396.7	586.2	680.9	827.7	1121.2
115°	275.2	253.2	231.2	253.2	275.2	280.7	400.4	560.0	639.7	781.1	1063.9
117.5°	301.0	281.0	261.0	281.0	301.0	306.1	407.8	543.5	611.3	738.9	994.1
120°	316.1	297.2	278.4	297.2	316.1	320.8	413.9	538.0	600.0	716.5	949.7
122.5°	333.4	314.4	295.4	314.4	333.4	338.2	422.5	535.0	591.3	696.3	906.3
125°	356.2	338.8	321.6	338.8	356.2	360.5	434.3	532.6	581.8	671.0	849.4
127.5°	377.6	360.2	342.8	360.2	377.6	382.0	446.0	531.3	573.8	650.5	803.6
130°	391.8	372.9	354.0	372.9	391.8	396.4	454.5	532.1	570.8	639.0	775.4
132.5°	403.5	384.6	365.8	384.6	403.5	408.2	461.5	532.6	568.2	629.3	751.3
135°	417.5	400.4	383.2	400.4	417.5	421.8	469.0	532.1	563.6	614.8	717.0
137.5°	435.0	418.0	401.0	418.0	435.0	439.2	480.4	535.4	562.9	606.1	692.6
140°	447.0	431.4	415.7	431.4	447.0	451.0	487.4	535.9	560.3	597.6	672.2
142.5°	456.0	441.5	427.1	441.5	456.0	459.6	493.2	537.9	560.3	593.0	658.6
145°	469.8	457.1	444.5	457.1	469.8	472.9	500.8	538.0	556.5	583.3	637.0
147.5°	486.5	474.2	461.9	474.2	486.5	489.5	511.8	541.6	556.5	577.6	619.7
150°	495.5	484.4	473.3	484.4	495.5	498.2	517.7	543.6	556.5	574.3	610.0
152.5°	501.8	493.4	485.0	493.4	501.8	503.9	521.4	544.8	556.5	571.7	602.1
155°	514.8	508.6	502.3	508.6	514.8	516.4	529.8	547.6	556.5	568.6	592.7
157.5°	527.3	521.3	515.2	521.3	527.3	528.9	538.0	550.3	556.5	565.9	584.7
160°	533.4	528.7	523.9	528.7	533.4	534.6	541.9	551.6	556.5	564.6	580.6
162.5°	539.7	536.2	532.6	536.2	539.7	540.6	545.9	553.0	556.5	563.3	577.0
165°	548.4	545.3	542.1	545.3	548.4	549.2	551.6	554.8	556.5	561.4	571.1
167.5°	553.8	552.3	550.8	552.3	553.8	554.2	556.2	558.9	560.3	563.5	569.9
170°	559.5	558.0	556.5	558.0	559.5	559.9	560.0	560.2	560.3	563.5	569.9
172.5°	560.2	559.9	559.5	559.9	560.2	560.3	560.3	560.3	560.3	562.8	567.9
175°	563.6	563.6	563.6	563.6	563.6	563.6	562.5	561.0	560.3	561.8	565.0
177.5°	563.6	563.6	563.6	563.6	563.6	563.6	562.7	561.5	561.0	562.3	564.7
180°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6



TEST NUMBER: P934368

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9	1939.9
2.5°	1872.0	1866.5	1873.8	1853.7	1873.8	1866.5	1872.0	1884.9	1873.8	1881.2	1888.5
5°	1642.6	1633.4	1604.0	1580.2	1604.0	1633.4	1642.6	1681.1	1699.5	1732.5	1776.6
7.5°	1468.2	1460.9	1453.5	1438.9	1453.5	1460.9	1468.2	1479.2	1497.6	1527.0	1560.0
10°	1429.7	1431.5	1442.5	1440.7	1442.5	1431.5	1429.7	1426.0	1420.5	1426.0	1446.2
12.5°	1528.8	1545.3	1605.9	1602.2	1605.9	1545.3	1528.8	1455.4	1405.8	1396.6	1400.3
15°	1642.6	1648.1	1660.9	1662.8	1660.9	1648.1	1642.6	1613.2	1464.5	1400.3	1380.1
17.5°	1653.6	1655.4	1664.6	1664.6	1664.6	1655.4	1653.6	1640.7	1591.2	1504.9	1391.1
20°	1644.4	1648.1	1666.4	1670.1	1666.4	1648.1	1644.4	1627.9	1600.4	1569.2	1482.9
22.5°	1640.7	1648.1	1662.8	1660.9	1662.8	1648.1	1640.7	1615.1	1591.2	1569.2	1534.3
25°	1622.4	1622.4	1624.2	1626.1	1624.2	1622.4	1622.4	1602.2	1554.5	1549.0	1528.8
27.5°	1583.8	1587.5	1598.5	1596.7	1598.5	1587.5	1583.8	1576.5	1525.1	1519.6	1504.9
30°	1549.0	1545.3	1536.1	1528.8	1536.1	1545.3	1549.0	1538.0	1486.6	1471.9	1475.6
32.5°	1490.2	1481.1	1471.9	1466.4	1471.9	1481.1	1490.2	1486.6	1448.0	1427.8	1431.5
35°	1420.5	1422.3	1420.5	1415.0	1420.5	1422.3	1420.5	1424.2	1400.3	1382.0	1380.1
37.5°	1370.9	1374.6	1372.8	1365.4	1372.8	1374.6	1370.9	1367.3	1334.2	1328.7	1332.4
40°	1319.6	1321.4	1319.6	1314.0	1319.6	1321.4	1319.6	1312.2	1266.3	1268.2	1281.0
42.5°	1270.0	1268.2	1262.7	1259.0	1262.7	1268.2	1270.0	1259.0	1200.3	1194.7	1218.6
45°	1213.1	1214.9	1203.9	1198.4	1203.9	1214.9	1213.1	1205.8	1145.2	1130.5	1147.0
47.5°	1156.2	1156.2	1147.0	1141.5	1147.0	1156.2	1156.2	1147.0	1082.9	1068.2	1077.4
50°	1095.6	1093.9	1081.0	1079.2	1081.0	1093.9	1095.6	1090.2	1022.3	1009.5	1009.5
52.5°	1026.0	1026.0	1027.8	1031.5	1027.8	1026.0	1026.0	1027.8	967.3	954.4	950.7
55°	965.4	967.3	980.1	983.8	980.1	967.3	965.4	965.4	910.4	897.5	890.2
57.5°	903.0	903.0	912.2	912.2	912.2	903.0	903.0	899.3	846.1	835.1	831.4
60°	831.4	835.1	842.4	840.6	842.4	835.1	831.4	827.8	781.9	774.5	761.7
62.5°	756.2	759.9	761.7	758.0	761.7	759.9	756.2	745.2	717.6	712.1	695.6
65°	677.3	680.9	682.8	679.1	682.8	680.9	677.3	671.8	651.6	642.4	627.7
67.5°	596.5	594.7	592.8	600.2	592.8	594.7	596.5	589.2	576.3	569.0	548.8
70°	513.9	513.9	512.1	515.7	512.1	513.9	513.9	508.4	501.1	495.6	477.2
72.5°	425.8	424.0	431.3	425.8	431.3	424.0	425.8	424.0	420.3	414.8	396.4
75°	339.5	343.2	339.5	345.1	339.5	343.2	339.5	341.4	339.5	335.9	323.0
77.5°	258.8	262.5	258.8	258.8	258.8	262.5	258.8	260.6	260.6	260.6	249.6
80°	183.5	181.7	181.7	179.9	181.7	181.7	183.5	183.5	185.4	181.7	178.0
82.5°	117.5	115.6	115.6	119.3	115.6	115.6	117.5	119.3	115.6	115.6	115.6
85°	64.2	66.1	62.4	62.4	62.4	66.1	64.2	60.6	64.2	64.2	62.4
87.5°	23.9	22.0	22.0	22.0	22.0	22.0	23.9	25.7	25.7	25.7	27.5
90°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	19.2	25.5	28.7	24.7
92.5°	71.9	69.0	57.5	46.2	57.5	69.0	71.9	101.9	141.9	161.9	142.2
95°	244.0	235.4	200.7	166.1	200.7	235.4	244.0	320.5	422.3	473.3	399.7
97.5°	563.3	546.8	480.9	415.0	480.9	546.8	563.3	611.6	676.0	708.2	585.5
100°	791.0	771.3	692.9	614.3	692.9	771.3	791.0	787.5	782.8	780.4	644.3
102.5°	985.4	968.6	901.4	834.1	901.4	968.6	985.4	923.9	841.9	800.9	662.9
105°	1212.5	1203.4	1167.2	1131.1	1167.2	1203.4	1212.5	1074.5	890.5	798.6	665.0
107.5°	1330.5	1332.7	1341.4	1350.1	1341.4	1332.7	1330.5	1138.0	881.4	753.2	635.3
110°	1360.7	1370.1	1407.7	1445.5	1407.7	1370.1	1360.7	1145.6	858.8	715.3	609.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1341.4	1355.9	1413.7	1471.5	1413.7	1355.9	1341.4	1121.2	827.7	680.9	586.2
115°	1276.0	1296.0	1376.2	1456.4	1376.2	1296.0	1276.0	1063.9	781.1	639.7	560.0
117.5°	1185.6	1207.8	1296.8	1385.7	1296.8	1207.8	1185.6	994.1	738.9	611.3	543.5
120°	1124.6	1146.2	1232.6	1319.1	1232.6	1146.2	1124.6	949.7	716.5	600.0	538.0
122.5°	1063.8	1085.1	1170.3	1255.6	1170.3	1085.1	1063.8	906.3	696.3	591.3	535.0
125°	983.2	1002.9	1081.3	1159.9	1081.3	1002.9	983.2	849.4	671.0	581.8	532.6
127.5°	918.5	935.0	1001.3	1067.6	1001.3	935.0	918.5	803.6	650.5	573.8	531.3
130°	877.6	892.9	954.1	1015.3	954.1	892.9	877.6	775.4	639.0	570.8	532.1
132.5°	842.8	856.5	911.4	966.1	911.4	856.5	842.8	751.3	629.3	568.2	532.6
135°	793.6	805.5	852.7	900.0	852.7	805.5	793.6	717.0	614.8	563.6	532.1
137.5°	757.4	767.0	805.7	844.4	805.7	767.0	757.4	692.6	606.1	562.9	535.4
140°	728.2	737.2	773.3	809.5	773.3	737.2	728.2	672.2	597.6	560.3	535.9
142.5°	707.8	715.6	746.6	777.7	746.6	715.6	707.8	658.6	593.0	560.3	537.9
145°	677.2	683.0	706.6	730.1	706.6	683.0	677.2	637.0	583.3	556.5	538.0
147.5°	651.4	656.2	675.8	695.3	675.8	656.2	651.4	619.7	577.6	556.5	541.6
150°	636.7	640.6	656.4	672.2	656.4	640.6	636.7	610.0	574.3	556.5	543.6
152.5°	625.0	628.0	639.9	651.8	639.9	628.0	625.0	602.1	571.7	556.5	544.8
155°	610.9	612.9	620.8	628.7	620.8	612.9	610.9	592.7	568.6	556.5	547.6
157.5°	598.8	600.2	605.8	611.3	605.8	600.2	598.8	584.7	565.9	556.5	550.3
160°	592.7	593.6	596.8	600.0	596.8	593.6	592.7	580.6	564.6	556.5	551.6
162.5°	587.1	587.9	590.9	593.9	590.9	587.9	587.1	577.0	563.3	556.5	553.0
165°	578.4	579.2	582.4	585.6	582.4	579.2	578.4	571.1	561.4	556.5	554.8
167.5°	574.7	575.0	576.3	577.7	576.3	575.0	574.7	569.9	563.5	560.3	558.9
170°	574.7	574.7	574.7	574.7	574.7	574.7	574.7	569.9	563.5	560.3	560.2
172.5°	571.6	571.4	570.2	569.0	570.2	571.4	571.6	567.9	562.8	560.3	560.3
175°	567.4	567.4	567.4	567.4	567.4	567.4	567.4	565.0	561.8	560.3	561.0
177.5°	566.7	566.3	565.0	563.6	565.0	566.3	566.7	564.7	562.3	561.0	561.5
180°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1939.9	1939.9	1939.9	1939.9	1939.9
2.5°	1916.1	1925.2	1930.7	1938.1	1956.4
5°	1842.6	1877.5	1888.5	1916.1	1949.1
7.5°	1681.1	1787.6	1816.9	1883.0	1934.4
10°	1525.1	1631.6	1683.0	1839.0	1916.1
12.5°	1446.2	1508.6	1543.5	1761.9	1890.4
15°	1396.6	1440.7	1466.4	1659.1	1861.0
17.5°	1358.1	1389.3	1407.7	1558.2	1820.6
20°	1334.2	1348.9	1365.4	1484.7	1774.7
22.5°	1317.7	1308.5	1321.4	1433.3	1712.3
25°	1306.7	1271.8	1286.5	1393.0	1638.9
27.5°	1315.9	1238.8	1244.3	1356.3	1561.8
30°	1317.7	1198.4	1200.3	1317.7	1475.6
32.5°	1304.9	1156.2	1158.0	1270.0	1378.3
35°	1273.7	1106.6	1104.8	1214.9	1246.1
37.5°	1231.5	1053.5	1053.5	1154.4	1101.1
40°	1180.1	1000.3	1005.8	1075.5	972.8
42.5°	1117.7	943.4	950.7	970.9	877.3
45°	1049.8	888.3	893.8	820.4	803.9
47.5°	974.6	831.4	833.3	680.9	780.0
50°	884.7	772.7	765.4	583.7	778.2
52.5°	805.7	708.5	686.4	528.6	706.6
55°	728.6	640.6	592.8	486.4	655.2
57.5°	660.7	552.5	506.6	436.8	644.2
60°	598.3	466.2	431.3	383.6	591.0
62.5°	546.9	402.0	394.6	346.9	535.9
65°	491.9	357.9	356.1	315.7	455.2
67.5°	438.7	328.5	326.7	286.3	346.9
70°	381.8	297.3	293.7	255.1	257.0
72.5°	323.0	262.5	258.8	229.4	212.9
75°	264.3	222.1	220.2	200.1	172.5
77.5°	207.4	176.2	179.9	161.5	126.6
80°	148.7	128.5	132.1	115.6	95.4
82.5°	99.1	84.4	88.1	73.4	64.2
85°	55.1	47.7	49.6	38.5	29.4
87.5°	25.7	22.0	22.0	14.7	9.2
90°	16.6	10.6	9.8	6.8	3.8
92.5°	102.7	73.0	66.6	40.8	15.1
95°	252.5	142.2	130.5	83.4	36.3
97.5°	340.2	156.2	145.8	104.3	62.8
100°	372.1	167.9	158.5	120.9	83.2
102.5°	386.7	179.7	170.9	135.8	100.7
105°	397.6	197.1	189.7	159.9	130.1
107.5°	399.6	222.8	215.8	188.1	160.4
110°	396.6	237.2	231.0	205.8	180.8



TEST NUMBER: P934368

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	396.7	254.6	248.6	224.7	200.9
115°	400.4	280.7	275.2	253.2	231.2
117.5°	407.8	306.1	301.0	281.0	261.0
120°	413.9	320.8	316.1	297.2	278.4
122.5°	422.5	338.2	333.4	314.4	295.4
125°	434.3	360.5	356.2	338.8	321.6
127.5°	446.0	382.0	377.6	360.2	342.8
130°	454.5	396.4	391.8	372.9	354.0
132.5°	461.5	408.2	403.5	384.6	365.8
135°	469.0	421.8	417.5	400.4	383.2
137.5°	480.4	439.2	435.0	418.0	401.0
140°	487.4	451.0	447.0	431.4	415.7
142.5°	493.2	459.6	456.0	441.5	427.1
145°	500.8	472.9	469.8	457.1	444.5
147.5°	511.8	489.5	486.5	474.2	461.9
150°	517.7	498.2	495.5	484.4	473.3
152.5°	521.4	503.9	501.8	493.4	485.0
155°	529.8	516.4	514.8	508.6	502.3
157.5°	538.0	528.9	527.3	521.3	515.2
160°	541.9	534.6	533.4	528.7	523.9
162.5°	545.9	540.6	539.7	536.2	532.6
165°	551.6	549.2	548.4	545.3	542.1
167.5°	556.2	554.2	553.8	552.3	550.8
170°	560.0	559.9	559.5	558.0	556.5
172.5°	560.3	560.3	560.2	559.9	559.5
175°	562.5	563.6	563.6	563.6	563.6
177.5°	562.7	563.6	563.6	563.6	563.6
180°	563.6	563.6	563.6	563.6	563.6



TEST NUMBER: P934368
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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	13.14	14.08	14.03	14.99	16.14	15.98	16.92	16.87	17.83	18.98
	3H	13.63	14.47	14.52	15.38	16.56	17.34	18.18	18.23	19.09	20.27
	4H	13.82	14.62	14.73	15.54	16.72	17.78	18.58	18.70	19.50	20.69
	6H	13.94	14.68	14.87	15.60	16.80	18.08	18.81	19.00	19.73	20.94
	8H	13.95	14.64	14.88	15.59	16.79	18.15	18.85	19.09	19.80	21.00
	12H	13.92	14.58	14.86	15.52	16.75	18.20	18.86	19.13	19.80	21.02
4H	2H	14.19	14.98	15.11	15.90	17.09	16.40	17.19	17.32	18.12	19.30
	3H	15.22	15.88	16.15	16.84	18.04	17.91	18.58	18.84	19.53	20.73
	4H	15.50	16.10	16.44	17.05	18.28	18.45	19.05	19.39	20.00	21.23
	6H	15.63	16.15	16.58	17.12	18.35	18.82	19.34	19.77	20.31	21.54
	8H	15.64	16.12	16.59	17.09	18.33	18.93	19.42	19.88	20.38	21.62
	12H	15.61	16.05	16.58	17.03	18.28	18.99	19.43	19.97	20.41	21.66
8H	4H	15.96	16.45	16.92	17.41	18.65	18.58	19.06	19.53	20.03	21.27
	6H	16.23	16.63	17.21	17.64	18.88	19.02	19.42	20.00	20.43	21.67
	8H	16.27	16.63	17.26	17.62	18.88	19.17	19.53	20.16	20.52	21.78
	12H	16.26	16.57	17.25	17.56	18.86	19.28	19.59	20.27	20.58	21.88
12H	4H	15.97	16.41	16.95	17.39	18.64	18.55	18.98	19.52	19.97	21.21
	6H	16.29	16.64	17.28	17.64	18.90	19.02	19.37	20.01	20.37	21.63
	8H	16.36	16.67	17.35	17.66	18.97	19.18	19.50	20.18	20.49	21.79