

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: P934841

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934841
REPORT IS A COMBINATION OF REPORTS P933715 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

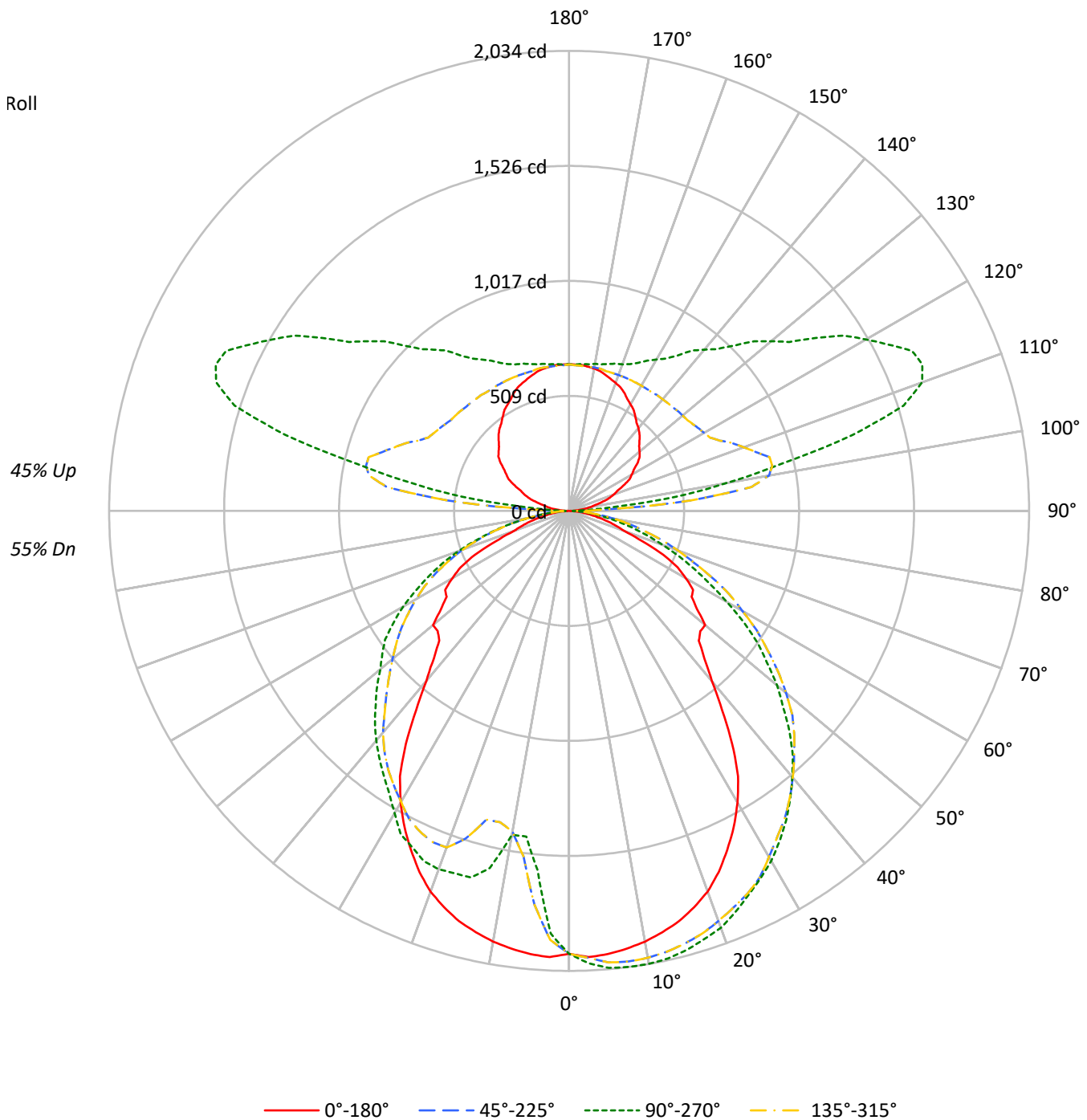
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9277.0 lumens
Efficiency: N/A
Efficacy: 120.8 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: General Diffuse

Input Watts (W): 76.8
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12111	12111	12111	12111
5°	12197	12226	12197	9613
10°	12112	12043	12112	8610
15°	11975	11782	11975	9839
20°	11721	11474	11721	9859
25°	11203	11023	11203	9651
30°	10537	10648	10537	9191
35°	9388	10175	9388	8687
40°	7818	9617	7818	8307
45°	6981	8965	6981	7868
50°	7410	8187	7410	7429
55°	6966	7349	6966	7174
60°	7172	6241	7172	6571
65°	6493	5159	6493	5767
70°	4485	4112	4485	4833
75°	3918	3039	3918	3640
80°	3134	2010	3134	2188
85°	1765	1064	1765	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10707 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.9
10°-20°	501.8	5.4
20°-30°	775.7	8.4
30°-40°	926.0	10.0
40°-50°	931.4	10.0
50°-60°	810.4	8.7
60°-70°	574.6	6.2
70°-80°	304.0	3.3
80°-90°	78.2	0.8
90°-100°	315.7	3.4
100°-110°	829.9	8.9
110°-120°	860.5	9.3
120°-130°	690.3	7.4
130°-140°	541.6	5.8
140°-150°	415.7	4.5
150°-160°	299.4	3.2
160°-170°	183.2	2.0
170°-180°	61.9	0.7
0°-30°	1454.2	15.7
0°-40°	2380.2	25.7
0°-60°	4122.1	44.4
0°-90°	5078.9	54.7
90°-120°	2006.1	21.6
90°-150°	3653.7	39.4
90°-180°	4198.0	45.3
0°-180°	9277.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1958	1958	1958	1958	1958	
5°	1967	2028	1967	1595	1967	187
15°	1878	2010	1878	1678	1878	528
25°	1654	1875	1654	1641	1654	759
35°	1258	1673	1258	1428	1258	778
45°	811	1378	811	1210	811	650
55°	661	1017	661	993	661	608
65°	459	613	459	685	459	439
75°	174	291	174	348	174	183
85°	30	74	30	63	30	40
90°	4	16	4	16	4	5
95°	42	191	42	191	42	46
105°	150	1300	150	1300	150	159
115°	266	1673	266	1673	266	262
125°	369	1333	369	1333	369	328
135°	440	1034	440	1034	440	341
145°	511	839	511	839	511	320
155°	577	722	577	722	577	265
165°	623	673	623	673	623	176
175°	648	652	648	652	648	61
180°	648	648	648	648	648	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1974.6	1974.6	1985.7	1989.3	1989.3	1983.8	1978.2	1983.8	2000.5	2006.1	2004.2
5°	1967.1	1982.0	2002.3	2006.1	2009.7	2007.8	2004.2	2007.8	2026.3	2030.1	2032.0
7.5°	1952.3	1980.1	2006.1	2011.6	2017.1	2011.6	2009.7	2013.5	2032.0	2035.7	2035.7
10°	1933.8	1972.7	2002.3	2006.1	2011.6	2006.1	2006.1	2013.5	2032.0	2035.7	2037.5
12.5°	1907.8	1961.6	1989.3	1993.1	2000.5	1998.6	1996.7	2004.2	2022.7	2026.3	2026.3
15°	1878.2	1941.2	1967.1	1970.8	1983.8	1980.1	1980.1	1987.5	2007.8	2013.5	2011.6
17.5°	1837.4	1915.2	1944.9	1950.5	1959.7	1957.8	1959.7	1967.1	1985.7	1989.3	1991.2
20°	1791.2	1880.1	1915.2	1920.8	1930.1	1930.1	1930.1	1939.3	1957.8	1965.3	1965.3
22.5°	1728.2	1843.1	1880.1	1883.8	1894.9	1894.9	1898.6	1911.6	1928.2	1930.1	1930.1
25°	1654.1	1802.3	1833.8	1844.8	1856.0	1861.6	1867.1	1874.6	1880.1	1878.2	1880.1
27.5°	1576.3	1750.4	1791.2	1798.6	1813.4	1818.9	1826.3	1828.2	1830.1	1835.6	1831.9
30°	1489.3	1678.2	1739.3	1746.7	1770.8	1774.4	1767.1	1770.8	1780.1	1783.8	1787.4
32.5°	1391.0	1570.8	1685.6	1702.3	1724.4	1713.3	1711.5	1717.1	1731.9	1731.9	1735.6
35°	1257.7	1487.4	1635.5	1650.4	1667.0	1654.1	1661.5	1663.3	1672.6	1678.2	1676.3
37.5°	1111.4	1415.1	1583.7	1594.8	1607.8	1591.2	1602.2	1607.8	1615.2	1611.5	1611.5
40°	981.7	1302.1	1522.5	1530.0	1541.1	1528.2	1539.3	1542.9	1546.7	1542.9	1541.1
42.5°	885.4	1178.0	1457.8	1467.0	1459.6	1468.9	1472.5	1480.0	1474.4	1467.0	1467.0
45°	811.3	1144.7	1387.4	1398.5	1387.4	1402.2	1407.8	1407.8	1391.0	1387.4	1385.5
47.5°	787.2	1078.0	1317.0	1317.0	1311.4	1329.9	1339.2	1326.3	1309.5	1304.0	1304.0
50°	785.3	1004.0	1220.6	1213.2	1239.1	1261.4	1252.1	1239.1	1226.2	1205.9	1205.9
52.5°	713.1	913.2	1096.5	1124.4	1165.1	1178.0	1163.2	1150.2	1128.0	1118.7	1111.4
55°	661.3	818.7	983.6	1039.1	1081.7	1098.4	1070.6	1057.6	1024.3	1018.7	1015.1
57.5°	650.2	681.7	879.8	950.2	1002.1	1000.2	983.6	959.5	931.7	926.1	924.3
60°	596.4	492.7	768.7	852.1	905.7	900.2	885.4	863.2	837.2	833.6	829.8
62.5°	540.8	357.5	642.7	737.2	813.2	811.3	798.3	765.0	746.5	737.2	729.8
65°	459.4	300.0	457.5	613.1	722.4	726.1	698.3	674.2	653.8	642.7	640.9
67.5°	350.0	244.5	309.3	511.2	635.3	631.7	596.4	585.3	559.4	553.8	542.7
70°	259.3	163.0	214.9	414.9	550.2	540.8	513.1	500.2	476.0	463.1	455.7
72.5°	214.9	131.5	157.4	322.3	463.1	451.9	427.9	413.0	392.7	381.5	374.2
75°	174.1	138.9	120.4	238.9	376.0	368.6	346.4	331.5	314.9	300.0	301.9
77.5°	127.8	129.6	96.3	176.0	298.2	287.1	274.1	255.6	248.2	233.4	233.4
80°	96.3	101.9	72.3	120.4	214.9	214.9	203.8	190.8	177.8	170.4	170.4
82.5°	64.9	64.9	53.7	75.9	146.4	140.8	133.4	129.6	122.3	118.5	118.5
85°	29.6	37.0	33.4	46.3	79.6	83.4	83.4	79.6	77.8	74.1	75.9
87.5°	9.3	16.6	20.4	25.9	40.8	42.6	44.5	44.5	44.5	46.3	46.3
90°	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1	16.5	16.5
92.5°	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0	82.5	79.3
95°	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1	280.3	270.4
97.5°	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7	647.2	628.2
100°	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8	908.8	886.3
102.5°	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5	1132.2	1112.9
105°	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5	1393.0	1382.6
107.5°	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6	1528.6	1531.1
110°	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3	1563.4	1574.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2	1541.1	1557.8
115°	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3	1466.0	1489.0
117.5°	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2	1362.1	1387.7
120°	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2	1292.1	1317.0
122.5°	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2	1222.1	1246.6
125°	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9	1129.6	1152.1
127.5°	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3	1055.3	1074.4
130°	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9	1008.4	1025.9
132.5°	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2	968.4	984.1
135°	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8	911.8	925.4
137.5°	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6	870.1	881.2
140°	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3	836.7	847.0
142.5°	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6	813.2	822.2
145°	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8	778.0	784.7
147.5°	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1	748.4	754.0
150°	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7	731.5	736.1
152.5°	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8	718.0	721.5
155°	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1	702.0	704.2
157.5°	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8	688.0	689.6
160°	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1	681.0	682.0
162.5°	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8	674.6	675.4
165°	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2	664.6	665.5
167.5°	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7	660.2	660.6
170°	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7	660.2	660.2
172.5°	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3	656.7	656.4
175°	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2	652.0	652.0
177.5°	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0	651.1	650.7
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	2007.8	2002.3	2007.8	2004.2	2006.1	2000.5	1983.8	1978.2	1983.8	1989.3	1989.3
5°	2032.0	2028.2	2032.0	2032.0	2030.1	2026.3	2007.8	2004.2	2007.8	2009.7	2006.1
7.5°	2039.3	2033.8	2039.3	2035.7	2035.7	2032.0	2013.5	2009.7	2011.6	2017.1	2011.6
10°	2039.3	2033.8	2039.3	2037.5	2035.7	2032.0	2013.5	2006.1	2006.1	2011.6	2006.1
12.5°	2030.1	2026.3	2030.1	2026.3	2026.3	2022.7	2004.2	1996.7	1998.6	2000.5	1993.1
15°	2015.3	2009.7	2015.3	2011.6	2013.5	2007.8	1987.5	1980.1	1980.1	1983.8	1970.8
17.5°	1993.1	1985.7	1993.1	1991.2	1989.3	1985.7	1967.1	1959.7	1957.8	1959.7	1950.5
20°	1967.1	1961.6	1967.1	1965.3	1965.3	1957.8	1939.3	1930.1	1930.1	1930.1	1920.8
22.5°	1926.3	1920.8	1926.3	1930.1	1930.1	1928.2	1911.6	1898.6	1894.9	1894.9	1883.8
25°	1880.1	1874.6	1880.1	1880.1	1878.2	1880.1	1874.6	1867.1	1861.6	1856.0	1844.8
27.5°	1835.6	1831.9	1835.6	1831.9	1835.6	1830.1	1828.2	1826.3	1818.9	1813.4	1798.6
30°	1791.2	1787.4	1791.2	1787.4	1783.8	1780.1	1770.8	1767.1	1774.4	1770.8	1746.7
32.5°	1735.6	1731.9	1735.6	1735.6	1731.9	1731.9	1717.1	1711.5	1713.3	1724.4	1702.3
35°	1678.2	1672.6	1678.2	1676.3	1678.2	1672.6	1663.3	1661.5	1654.1	1667.0	1650.4
37.5°	1611.5	1605.9	1611.5	1611.5	1611.5	1615.2	1607.8	1602.2	1591.2	1607.8	1594.8
40°	1542.9	1535.5	1542.9	1541.1	1542.9	1546.7	1542.9	1539.3	1528.2	1541.1	1530.0
42.5°	1465.2	1463.3	1465.2	1467.0	1467.0	1474.4	1480.0	1472.5	1468.9	1459.6	1467.0
45°	1381.8	1378.1	1381.8	1385.5	1387.4	1391.0	1407.8	1407.8	1402.2	1387.4	1398.5
47.5°	1292.9	1283.6	1292.9	1304.0	1304.0	1309.5	1326.3	1339.2	1329.9	1311.4	1317.0
50°	1198.4	1200.3	1198.4	1205.9	1205.9	1226.2	1239.1	1252.1	1261.4	1239.1	1213.2
52.5°	1105.9	1104.0	1105.9	1111.4	1118.7	1128.0	1150.2	1163.2	1178.0	1165.1	1124.4
55°	1013.2	1016.9	1013.2	1015.1	1018.7	1024.3	1057.6	1070.6	1098.4	1081.7	1039.1
57.5°	920.6	915.0	920.6	924.3	926.1	931.7	959.5	983.6	1000.2	1002.1	950.2
60°	813.2	805.7	813.2	829.8	833.6	837.2	863.2	885.4	900.2	905.7	852.1
62.5°	718.7	705.7	718.7	729.8	737.2	746.5	765.0	798.3	811.3	813.2	737.2
65°	618.7	613.1	618.7	640.9	642.7	653.8	674.2	698.3	726.1	722.4	613.1
67.5°	527.9	527.9	527.9	542.7	553.8	559.4	585.3	596.4	631.7	635.3	511.2
70°	444.5	442.7	444.5	455.7	463.1	476.0	500.2	513.1	540.8	550.2	414.9
72.5°	364.9	363.0	364.9	374.2	381.5	392.7	413.0	427.9	451.9	463.1	322.3
75°	294.5	290.8	294.5	301.9	300.0	314.9	331.5	346.4	368.6	376.0	238.9
77.5°	226.0	226.0	226.0	233.4	233.4	248.2	255.6	274.1	287.1	298.2	176.0
80°	168.5	166.8	168.5	170.4	170.4	177.8	190.8	203.8	214.9	214.9	120.4
82.5°	118.5	114.9	118.5	118.5	118.5	122.3	129.6	133.4	140.8	146.4	75.9
85°	74.1	74.1	74.1	75.9	74.1	77.8	79.6	83.4	83.4	79.6	46.3
87.5°	48.1	46.3	48.1	46.3	46.3	44.5	44.5	44.5	42.6	40.8	25.9
90°	16.5	16.5	16.5	16.5	16.5	22.1	29.3	33.0	28.3	19.1	12.2
92.5°	66.1	53.0	66.1	79.3	82.5	117.0	163.0	186.0	163.3	117.9	83.8
95°	230.6	190.8	230.6	270.4	280.3	368.1	485.2	543.7	459.2	290.1	163.4
97.5°	552.5	476.8	552.5	628.2	647.2	702.7	776.6	813.7	672.7	390.9	179.5
100°	796.0	705.8	796.0	886.3	908.8	904.8	899.4	896.7	740.3	427.5	193.0
102.5°	1035.7	958.4	1035.7	1112.9	1132.2	1061.5	967.2	920.1	761.5	444.4	206.5
105°	1341.0	1299.5	1341.0	1382.6	1393.0	1234.5	1023.1	917.5	763.9	456.8	226.5
107.5°	1541.1	1551.1	1541.1	1531.1	1528.6	1307.6	1012.8	865.4	729.9	459.1	256.0
110°	1617.4	1660.7	1617.4	1574.2	1563.4	1316.3	986.7	821.9	699.8	455.6	272.5



TEST NUMBER: P934841

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1624.2	1690.7	1624.2	1557.8	1541.1	1288.2	951.0	782.3	673.5	455.8	292.5
115°	1581.1	1673.3	1581.1	1489.0	1466.0	1222.3	897.4	735.0	643.3	460.0	322.5
117.5°	1489.8	1592.0	1489.8	1387.7	1362.1	1142.2	849.0	702.3	624.4	468.6	351.6
120°	1416.3	1515.5	1416.3	1317.0	1292.1	1091.2	823.3	689.3	618.0	475.5	368.6
122.5°	1344.6	1442.5	1344.6	1246.6	1222.1	1041.2	799.9	679.3	614.8	485.5	388.6
125°	1242.4	1332.6	1242.4	1152.1	1129.6	975.9	770.9	668.5	612.0	498.9	414.2
127.5°	1150.4	1226.5	1150.4	1074.4	1055.3	923.3	747.3	659.3	610.4	512.4	438.9
130°	1096.2	1166.5	1096.2	1025.9	1008.4	890.9	734.2	655.9	611.4	522.3	455.5
132.5°	1047.1	1110.1	1047.1	984.1	968.4	863.2	722.9	652.8	612.0	530.3	468.9
135°	979.7	1034.0	979.7	925.4	911.8	823.8	706.3	647.6	611.4	539.0	484.6
137.5°	925.6	970.1	925.6	881.2	870.1	795.6	696.4	646.7	615.1	551.9	504.6
140°	888.6	930.1	888.6	847.0	836.7	772.3	686.5	643.6	615.8	560.0	518.1
142.5°	857.9	893.6	857.9	822.2	813.2	756.6	681.3	643.6	617.9	566.6	528.1
145°	811.8	838.8	811.8	784.7	778.0	731.8	670.2	639.3	618.0	575.3	543.3
147.5°	776.4	798.8	776.4	754.0	748.4	712.1	663.5	639.3	622.2	588.0	562.4
150°	754.2	772.3	754.2	736.1	731.5	700.7	659.8	639.3	624.5	594.8	572.4
152.5°	735.1	748.9	735.1	721.5	718.0	691.8	656.8	639.3	625.9	599.1	579.0
155°	713.3	722.3	713.3	704.2	702.0	681.1	653.3	639.3	629.1	608.6	593.3
157.5°	696.0	702.3	696.0	689.6	688.0	671.8	650.2	639.3	632.3	618.2	607.7
160°	685.6	689.3	685.6	682.0	681.0	667.1	648.6	639.3	633.7	622.5	614.1
162.5°	678.9	682.3	678.9	675.4	674.6	662.8	647.2	639.3	635.3	627.2	621.1
165°	669.2	672.8	669.2	665.5	664.6	656.2	644.9	639.3	637.5	633.8	631.1
167.5°	662.1	663.6	662.1	660.6	660.2	654.7	647.3	643.6	642.1	639.1	636.7
170°	660.2	660.2	660.2	660.2	660.2	654.7	647.3	643.6	643.5	643.4	643.3
172.5°	655.0	653.6	655.0	656.4	656.7	652.3	646.5	643.6	643.6	643.6	643.6
175°	652.0	652.0	652.0	652.0	652.0	649.2	645.5	643.6	644.5	646.3	647.6
177.5°	649.2	647.6	649.2	650.7	651.1	649.0	646.1	644.6	645.2	646.5	647.6
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



TEST NUMBER: P934841

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1985.7	1974.6	1974.6	1956.0	1948.6	1943.1	1933.8	1906.0	1898.6	1891.2	1902.3
5°	2002.3	1982.0	1967.1	1933.8	1906.0	1894.9	1859.7	1793.0	1748.6	1715.2	1696.7
7.5°	2006.1	1980.1	1952.3	1900.4	1833.8	1804.1	1696.7	1574.4	1541.1	1511.4	1492.9
10°	2002.3	1972.7	1933.8	1856.0	1698.5	1646.7	1539.3	1459.6	1439.3	1433.7	1439.3
12.5°	1989.3	1961.6	1907.8	1778.2	1557.8	1522.5	1459.6	1413.3	1409.6	1418.9	1468.9
15°	1967.1	1941.2	1878.2	1674.4	1480.0	1454.0	1409.6	1392.9	1413.3	1478.1	1628.2
17.5°	1944.9	1915.2	1837.4	1572.5	1420.7	1402.2	1370.7	1404.0	1518.9	1605.9	1655.9
20°	1915.2	1880.1	1791.2	1498.5	1378.1	1361.4	1346.6	1496.7	1583.7	1615.2	1642.9
22.5°	1880.1	1843.1	1728.2	1446.6	1333.6	1320.6	1329.9	1548.5	1583.7	1605.9	1630.0
25°	1833.8	1802.3	1654.1	1405.9	1298.5	1283.6	1318.9	1542.9	1563.3	1568.9	1617.0
27.5°	1791.2	1750.4	1576.3	1368.9	1255.9	1250.3	1328.1	1518.9	1533.7	1539.3	1591.2
30°	1739.3	1678.2	1489.3	1329.9	1211.4	1209.5	1329.9	1489.3	1485.5	1500.4	1552.2
32.5°	1685.6	1570.8	1391.0	1281.8	1168.8	1167.0	1317.0	1444.8	1441.0	1461.4	1500.4
35°	1635.5	1487.4	1257.7	1226.2	1115.1	1116.9	1285.5	1392.9	1394.8	1413.3	1437.4
37.5°	1583.7	1415.1	1111.4	1165.1	1063.2	1063.2	1242.9	1344.8	1341.0	1346.6	1379.9
40°	1522.5	1302.1	981.7	1085.5	1015.1	1009.5	1191.0	1292.9	1279.9	1278.1	1324.4
42.5°	1457.8	1178.0	885.4	979.9	959.5	952.1	1128.0	1229.9	1205.9	1211.4	1270.6
45°	1387.4	1144.7	811.3	828.0	902.1	896.5	1059.5	1157.6	1141.0	1155.9	1217.0
47.5°	1317.0	1078.0	787.2	687.2	841.0	839.1	983.6	1087.3	1078.0	1092.9	1157.6
50°	1220.6	1004.0	785.3	589.1	772.4	779.8	892.8	1018.7	1018.7	1031.7	1100.2
52.5°	1096.5	913.2	713.1	533.4	692.7	715.0	813.2	959.5	963.2	976.1	1037.2
55°	983.6	818.7	661.3	490.8	598.3	646.4	735.3	898.3	905.7	918.7	974.3
57.5°	879.8	681.7	650.2	440.8	511.2	557.6	666.8	839.1	842.8	853.9	907.6
60°	768.7	492.7	596.4	387.2	435.3	470.4	603.8	768.7	781.7	789.1	835.3
62.5°	642.7	357.5	540.8	350.0	398.3	405.7	551.9	702.1	718.7	724.2	752.1
65°	457.5	300.0	459.4	318.5	359.3	361.2	496.4	633.5	648.3	657.6	677.9
67.5°	309.3	244.5	350.0	288.9	329.7	331.5	442.7	553.8	574.2	581.6	594.6
70°	214.9	163.0	259.3	257.5	296.4	300.0	385.3	481.6	500.2	505.7	513.1
72.5°	157.4	131.5	214.9	231.5	261.2	264.9	326.0	400.1	418.7	424.2	427.9
75°	120.4	138.9	174.1	201.9	222.3	224.1	266.8	326.0	338.9	342.7	344.5
77.5°	96.3	129.6	127.8	163.0	181.5	177.8	209.3	251.9	263.0	263.0	263.0
80°	72.3	101.9	96.3	116.7	133.4	129.6	150.0	179.7	183.4	187.0	185.3
82.5°	53.7	64.9	64.9	74.1	88.9	85.2	100.0	116.7	116.7	116.7	120.4
85°	33.4	37.0	29.6	38.9	50.0	48.1	55.6	63.0	64.9	64.9	61.1
87.5°	20.4	16.6	9.3	14.9	22.2	22.2	25.9	27.8	25.9	25.9	25.9
90°	11.3	7.8	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1
92.5°	76.5	46.9	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0
95°	149.8	95.8	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1
97.5°	167.5	119.8	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7
100°	182.2	138.9	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8
102.5°	196.4	156.0	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5
105°	218.0	183.8	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5
107.5°	248.1	216.2	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6
110°	265.3	236.6	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3



TEST NUMBER: P934841

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	285.6	258.2	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2
115°	316.1	290.9	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3
117.5°	345.8	322.8	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2
120°	363.1	341.5	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2
122.5°	383.1	361.3	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2
125°	409.2	389.3	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9
127.5°	433.9	413.9	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3
130°	450.1	428.5	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9
132.5°	463.5	441.9	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2
135°	479.7	460.0	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8
137.5°	499.7	480.2	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6
140°	513.6	495.6	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3
142.5°	524.0	507.4	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6
145°	539.6	525.2	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8
147.5°	558.9	544.7	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1
150°	569.2	556.4	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7
152.5°	576.5	566.9	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8
155°	591.5	584.3	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1
157.5°	605.9	599.0	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8
160°	612.8	607.4	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1
162.5°	620.1	616.1	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8
165°	630.2	626.5	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2
167.5°	636.3	634.6	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7
170°	642.8	641.1	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7
172.5°	643.5	643.2	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3
175°	647.6	647.6	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2
177.5°	647.6	647.6	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



TEST NUMBER: P934841

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1889.3	1883.8	1891.2	1870.8	1891.2	1883.8	1889.3	1902.3	1891.2	1898.6	1906.0
5°	1657.8	1648.5	1618.9	1594.8	1618.9	1648.5	1657.8	1696.7	1715.2	1748.6	1793.0
7.5°	1481.8	1474.4	1467.0	1452.2	1467.0	1474.4	1481.8	1492.9	1511.4	1541.1	1574.4
10°	1442.9	1444.8	1455.9	1454.0	1455.9	1444.8	1442.9	1439.3	1433.7	1439.3	1459.6
12.5°	1542.9	1559.7	1620.8	1617.0	1620.8	1559.7	1542.9	1468.9	1418.9	1409.6	1413.3
15°	1657.8	1663.3	1676.3	1678.2	1676.3	1663.3	1657.8	1628.2	1478.1	1413.3	1392.9
17.5°	1668.9	1670.8	1680.0	1680.0	1680.0	1670.8	1668.9	1655.9	1605.9	1518.9	1404.0
20°	1659.7	1663.3	1681.9	1685.6	1681.9	1663.3	1659.7	1642.9	1615.2	1583.7	1496.7
22.5°	1655.9	1663.3	1678.2	1676.3	1678.2	1663.3	1655.9	1630.0	1605.9	1583.7	1548.5
25°	1637.4	1637.4	1639.3	1641.2	1639.3	1637.4	1637.4	1617.0	1568.9	1563.3	1542.9
27.5°	1598.5	1602.2	1613.3	1611.5	1613.3	1602.2	1598.5	1591.2	1539.3	1533.7	1518.9
30°	1563.3	1559.7	1550.4	1542.9	1550.4	1559.7	1563.3	1552.2	1500.4	1485.5	1489.3
32.5°	1504.0	1494.8	1485.5	1480.0	1485.5	1494.8	1504.0	1500.4	1461.4	1441.0	1444.8
35°	1433.7	1435.5	1433.7	1428.1	1433.7	1435.5	1433.7	1437.4	1413.3	1394.8	1392.9
37.5°	1383.6	1387.4	1385.5	1378.1	1385.5	1387.4	1383.6	1379.9	1346.6	1341.0	1344.8
40°	1331.8	1333.6	1331.8	1326.3	1331.8	1333.6	1331.8	1324.4	1278.1	1279.9	1292.9
42.5°	1281.8	1279.9	1274.4	1270.6	1274.4	1279.9	1281.8	1270.6	1211.4	1205.9	1229.9
45°	1224.4	1226.2	1215.1	1209.5	1215.1	1226.2	1224.4	1217.0	1155.9	1141.0	1157.6
47.5°	1167.0	1167.0	1157.6	1152.1	1157.6	1167.0	1167.0	1157.6	1092.9	1078.0	1087.3
50°	1105.9	1104.0	1091.0	1089.1	1091.0	1104.0	1105.9	1100.2	1031.7	1018.7	1018.7
52.5°	1035.5	1035.5	1037.2	1041.0	1037.2	1035.5	1035.5	1037.2	976.1	963.2	959.5
55°	974.3	976.1	989.1	992.8	989.1	976.1	974.3	974.3	918.7	905.7	898.3
57.5°	911.3	911.3	920.6	920.6	920.6	911.3	911.3	907.6	853.9	842.8	839.1
60°	839.1	842.8	850.2	848.3	850.2	842.8	839.1	835.3	789.1	781.7	768.7
62.5°	763.1	766.8	768.7	765.0	768.7	766.8	763.1	752.1	724.2	718.7	702.1
65°	683.5	687.2	689.1	685.3	689.1	687.2	683.5	677.9	657.6	648.3	633.5
67.5°	602.0	600.2	598.3	605.7	598.3	600.2	602.0	594.6	581.6	574.2	553.8
70°	518.7	518.7	516.8	520.4	516.8	518.7	518.7	513.1	505.7	500.2	481.6
72.5°	429.7	427.9	435.3	429.7	435.3	427.9	429.7	427.9	424.2	418.7	400.1
75°	342.7	346.4	342.7	348.3	342.7	346.4	342.7	344.5	342.7	338.9	326.0
77.5°	261.2	264.9	261.2	261.2	261.2	264.9	261.2	263.0	263.0	263.0	251.9
80°	185.3	183.4	183.4	181.5	183.4	183.4	185.3	185.3	187.0	183.4	179.7
82.5°	118.5	116.7	116.7	120.4	116.7	116.7	118.5	120.4	116.7	116.7	116.7
85°	64.9	66.6	63.0	63.0	63.0	66.6	64.9	61.1	64.9	64.9	63.0
87.5°	24.1	22.2	22.2	22.2	22.2	22.2	24.1	25.9	25.9	25.9	27.8
90°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	22.1	29.3	33.0	28.3
92.5°	82.5	79.3	66.1	53.0	66.1	79.3	82.5	117.0	163.0	186.0	163.3
95°	280.3	270.4	230.6	190.8	230.6	270.4	280.3	368.1	485.2	543.7	459.2
97.5°	647.2	628.2	552.5	476.8	552.5	628.2	647.2	702.7	776.6	813.7	672.7
100°	908.8	886.3	796.0	705.8	796.0	886.3	908.8	904.8	899.4	896.7	740.3
102.5°	1132.2	1112.9	1035.7	958.4	1035.7	1112.9	1132.2	1061.5	967.2	920.1	761.5
105°	1393.0	1382.6	1341.0	1299.5	1341.0	1382.6	1393.0	1234.5	1023.1	917.5	763.9
107.5°	1528.6	1531.1	1541.1	1551.1	1541.1	1531.1	1528.6	1307.6	1012.8	865.4	729.9
110°	1563.4	1574.2	1617.4	1660.7	1617.4	1574.2	1563.4	1316.3	986.7	821.9	699.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1541.1	1557.8	1624.2	1690.7	1624.2	1557.8	1541.1	1288.2	951.0	782.3	673.5
115°	1466.0	1489.0	1581.1	1673.3	1581.1	1489.0	1466.0	1222.3	897.4	735.0	643.3
117.5°	1362.1	1387.7	1489.8	1592.0	1489.8	1387.7	1362.1	1142.2	849.0	702.3	624.4
120°	1292.1	1317.0	1416.3	1515.5	1416.3	1317.0	1292.1	1091.2	823.3	689.3	618.0
122.5°	1222.1	1246.6	1344.6	1442.5	1344.6	1246.6	1222.1	1041.2	799.9	679.3	614.8
125°	1129.6	1152.1	1242.4	1332.6	1242.4	1152.1	1129.6	975.9	770.9	668.5	612.0
127.5°	1055.3	1074.4	1150.4	1226.5	1150.4	1074.4	1055.3	923.3	747.3	659.3	610.4
130°	1008.4	1025.9	1096.2	1166.5	1096.2	1025.9	1008.4	890.9	734.2	655.9	611.4
132.5°	968.4	984.1	1047.1	1110.1	1047.1	984.1	968.4	863.2	722.9	652.8	612.0
135°	911.8	925.4	979.7	1034.0	979.7	925.4	911.8	823.8	706.3	647.6	611.4
137.5°	870.1	881.2	925.6	970.1	925.6	881.2	870.1	795.6	696.4	646.7	615.1
140°	836.7	847.0	888.6	930.1	888.6	847.0	836.7	772.3	686.5	643.6	615.8
142.5°	813.2	822.2	857.9	893.6	857.9	822.2	813.2	756.6	681.3	643.6	617.9
145°	778.0	784.7	811.8	838.8	811.8	784.7	778.0	731.8	670.2	639.3	618.0
147.5°	748.4	754.0	776.4	798.8	776.4	754.0	748.4	712.1	663.5	639.3	622.2
150°	731.5	736.1	754.2	772.3	754.2	736.1	731.5	700.7	659.8	639.3	624.5
152.5°	718.0	721.5	735.1	748.9	735.1	721.5	718.0	691.8	656.8	639.3	625.9
155°	702.0	704.2	713.3	722.3	713.3	704.2	702.0	681.1	653.3	639.3	629.1
157.5°	688.0	689.6	696.0	702.3	696.0	689.6	688.0	671.8	650.2	639.3	632.3
160°	681.0	682.0	685.6	689.3	685.6	682.0	681.0	667.1	648.6	639.3	633.7
162.5°	674.6	675.4	678.9	682.3	678.9	675.4	674.6	662.8	647.2	639.3	635.3
165°	664.6	665.5	669.2	672.8	669.2	665.5	664.6	656.2	644.9	639.3	637.5
167.5°	660.2	660.6	662.1	663.6	662.1	660.6	660.2	654.7	647.3	643.6	642.1
170°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	654.7	647.3	643.6	643.5
172.5°	656.7	656.4	655.0	653.6	655.0	656.4	656.7	652.3	646.5	643.6	643.6
175°	652.0	652.0	652.0	652.0	652.0	652.0	652.0	649.2	645.5	643.6	644.5
177.5°	651.1	650.7	649.2	647.6	649.2	650.7	651.1	649.0	646.1	644.6	645.2
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1933.8	1943.1	1948.6	1956.0	1974.6
5°	1859.7	1894.9	1906.0	1933.8	1967.1
7.5°	1696.7	1804.1	1833.8	1900.4	1952.3
10°	1539.3	1646.7	1698.5	1856.0	1933.8
12.5°	1459.6	1522.5	1557.8	1778.2	1907.8
15°	1409.6	1454.0	1480.0	1674.4	1878.2
17.5°	1370.7	1402.2	1420.7	1572.5	1837.4
20°	1346.6	1361.4	1378.1	1498.5	1791.2
22.5°	1329.9	1320.6	1333.6	1446.6	1728.2
25°	1318.9	1283.6	1298.5	1405.9	1654.1
27.5°	1328.1	1250.3	1255.9	1368.9	1576.3
30°	1329.9	1209.5	1211.4	1329.9	1489.3
32.5°	1317.0	1167.0	1168.8	1281.8	1391.0
35°	1285.5	1116.9	1115.1	1226.2	1257.7
37.5°	1242.9	1063.2	1063.2	1165.1	1111.4
40°	1191.0	1009.5	1015.1	1085.5	981.7
42.5°	1128.0	952.1	959.5	979.9	885.4
45°	1059.5	896.5	902.1	828.0	811.3
47.5°	983.6	839.1	841.0	687.2	787.2
50°	892.8	779.8	772.4	589.1	785.3
52.5°	813.2	715.0	692.7	533.4	713.1
55°	735.3	646.4	598.3	490.8	661.3
57.5°	666.8	557.6	511.2	440.8	650.2
60°	603.8	470.4	435.3	387.2	596.4
62.5°	551.9	405.7	398.3	350.0	540.8
65°	496.4	361.2	359.3	318.5	459.4
67.5°	442.7	331.5	329.7	288.9	350.0
70°	385.3	300.0	296.4	257.5	259.3
72.5°	326.0	264.9	261.2	231.5	214.9
75°	266.8	224.1	222.3	201.9	174.1
77.5°	209.3	177.8	181.5	163.0	127.8
80°	150.0	129.6	133.4	116.7	96.3
82.5°	100.0	85.2	88.9	74.1	64.9
85°	55.6	48.1	50.0	38.9	29.6
87.5°	25.9	22.2	22.2	14.9	9.3
90°	19.1	12.2	11.3	7.8	4.3
92.5°	117.9	83.8	76.5	46.9	17.4
95°	290.1	163.4	149.8	95.8	41.7
97.5°	390.9	179.5	167.5	119.8	72.2
100°	427.5	193.0	182.2	138.9	95.6
102.5°	444.4	206.5	196.4	156.0	115.6
105°	456.8	226.5	218.0	183.8	149.6
107.5°	459.1	256.0	248.1	216.2	184.3
110°	455.6	272.5	265.3	236.6	207.8



TEST NUMBER: P934841

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	455.8	292.5	285.6	258.2	230.8
115°	460.0	322.5	316.1	290.9	265.5
117.5°	468.6	351.6	345.8	322.8	299.9
120°	475.5	368.6	363.1	341.5	319.9
122.5°	485.5	388.6	383.1	361.3	339.5
125°	498.9	414.2	409.2	389.3	369.4
127.5°	512.4	438.9	433.9	413.9	393.8
130°	522.3	455.5	450.1	428.5	406.8
132.5°	530.3	468.9	463.5	441.9	420.2
135°	539.0	484.6	479.7	460.0	440.2
137.5°	551.9	504.6	499.7	480.2	460.7
140°	560.0	518.1	513.6	495.6	477.6
142.5°	566.6	528.1	524.0	507.4	490.7
145°	575.3	543.3	539.6	525.2	510.7
147.5°	588.0	562.4	558.9	544.7	530.6
150°	594.8	572.4	569.2	556.4	543.7
152.5°	599.1	579.0	576.5	566.9	557.2
155°	608.6	593.3	591.5	584.3	577.2
157.5°	618.2	607.7	605.9	599.0	591.9
160°	622.5	614.1	612.8	607.4	602.0
162.5°	627.2	621.1	620.1	616.1	612.0
165°	633.8	631.1	630.2	626.5	622.8
167.5°	639.1	636.7	636.3	634.6	632.8
170°	643.4	643.3	642.8	641.1	639.3
172.5°	643.6	643.6	643.5	643.2	642.8
175°	646.3	647.6	647.6	647.6	647.6
177.5°	646.5	647.6	647.6	647.6	647.6
180°	647.6	647.6	647.6	647.6	647.6



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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	13.90	14.80	14.81	15.74	16.94	16.72	17.63	17.64	18.56	19.76
	3H	14.38	15.19	15.30	16.13	17.36	18.07	18.88	18.99	19.82	21.05
	4H	14.57	15.34	15.51	16.29	17.52	18.51	19.28	19.45	20.23	21.46
	6H	14.69	15.40	15.64	16.35	17.60	18.80	19.51	19.75	20.46	21.71
	8H	14.69	15.37	15.65	16.34	17.58	18.87	19.55	19.83	20.52	21.76
	12H	14.67	15.31	15.63	16.27	17.54	18.91	19.55	19.88	20.52	21.79
4H	2H	14.93	15.70	15.88	16.65	17.88	17.14	17.90	18.08	18.85	20.09
	3H	15.96	16.60	16.92	17.58	18.83	18.64	19.28	19.60	20.26	21.51
	4H	16.24	16.83	17.21	17.80	19.07	19.17	19.76	20.14	20.73	22.00
	6H	16.37	16.87	17.35	17.87	19.14	19.54	20.04	20.52	21.04	22.31
	8H	16.38	16.85	17.36	17.84	19.12	19.65	20.12	20.63	21.10	22.39
	12H	16.35	16.77	17.35	17.78	19.07	19.70	20.13	20.70	21.13	22.43
8H	4H	16.70	17.17	17.68	18.16	19.44	19.30	19.77	20.28	20.76	22.05
	6H	16.96	17.35	17.97	18.38	19.67	19.74	20.13	20.74	21.16	22.44
	8H	17.00	17.35	18.02	18.37	19.67	19.89	20.23	20.90	21.25	22.55
	12H	16.99	17.29	18.01	18.31	19.65	19.99	20.29	21.01	21.30	22.65
12H	4H	16.71	17.13	17.71	18.14	19.43	19.27	19.69	20.27	20.70	21.99
	6H	17.02	17.37	18.04	18.38	19.69	19.73	20.08	20.75	21.10	22.40
	8H	17.09	17.39	18.11	18.41	19.75	19.90	20.20	20.92	21.21	22.56