

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: P934491

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934491
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-B2750-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

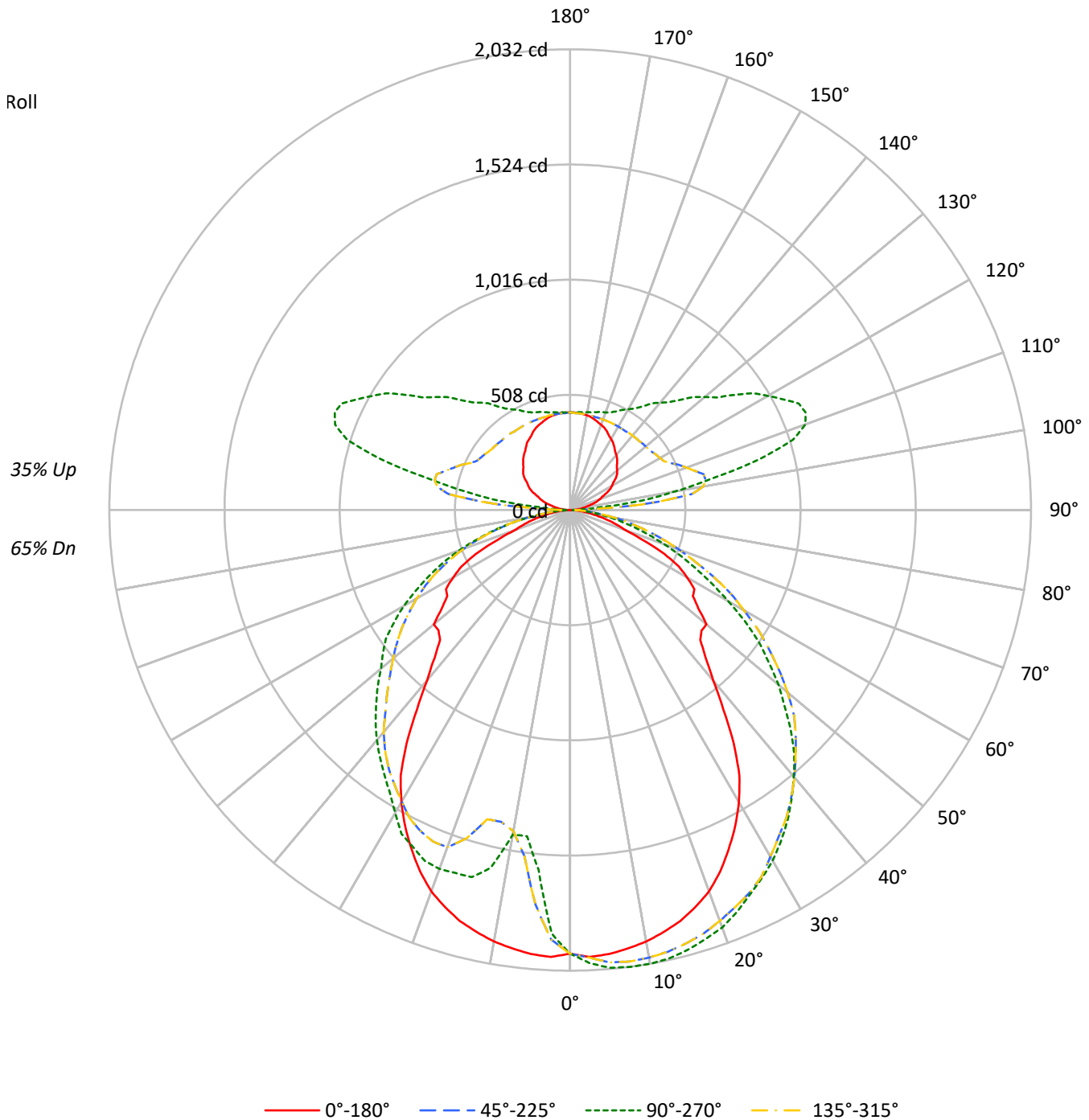
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7863.4 lumens
Efficiency: N/A
Efficacy: 116.0 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				
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	65	65	65	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55	55	55	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46	46	46	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39	39	39	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33	33	33	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29	29	29	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25	25	25	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22	22	22	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20	20	20	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18	18	18	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12103	12103	12103	12103
5°	12188	12217	12188	9606
10°	12103	12034	12103	8603
15°	11966	11773	11966	9831
20°	11712	11465	11712	9852
25°	11194	11014	11194	9643
30°	10528	10640	10528	9185
35°	9382	10167	9382	8681
40°	7813	9610	7813	8301
45°	6976	8958	6976	7862
50°	7405	8180	7405	7423
55°	6961	7343	6961	7169
60°	7167	6236	7167	6566
65°	6488	5155	6488	5763
70°	4481	4108	4481	4831
75°	3915	3037	3915	3637
80°	3131	2008	3131	2186
85°	1765	1064	1765	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	2.2
10°-20°	501.4	6.4
20°-30°	775.1	9.9
30°-40°	925.3	11.8
40°-50°	930.7	11.8
50°-60°	809.8	10.3
60°-70°	574.2	7.3
70°-80°	303.8	3.9
80°-90°	77.3	1.0
90°-100°	209.7	2.7
100°-110°	551.4	7.0
110°-120°	571.7	7.3
120°-130°	458.6	5.8
130°-140°	359.8	4.6
140°-150°	276.2	3.5
150°-160°	198.9	2.5
160°-170°	121.7	1.5
170°-180°	41.1	0.5
0°-30°	1453.1	18.5
0°-40°	2378.4	30.2
0°-60°	4118.9	52.4
0°-90°	5074.2	64.5
90°-120°	1332.8	16.9
90°-150°	2427.4	30.9
90°-180°	2789.0	35.5
0°-180°	7863.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1956	1956	1956	1956	1956	
5°	1966	2027	1966	1594	1966	186
15°	1877	2008	1877	1677	1877	528
25°	1653	1873	1653	1640	1653	759
35°	1257	1671	1257	1427	1257	778
45°	811	1377	811	1209	811	649
55°	661	1016	661	992	661	607
65°	459	613	459	685	459	439
75°	174	291	174	348	174	183
85°	30	74	30	63	30	40
90°	3	11	3	11	3	4
95°	28	127	28	127	28	31
105°	99	863	99	863	99	105
115°	176	1112	176	1112	176	174
125°	246	885	246	885	246	218
135°	292	687	292	687	292	226
145°	339	557	339	557	339	213
155°	384	480	384	480	384	176
165°	414	447	414	447	414	117
175°	430	433	430	433	430	41
180°	430	430	430	430	430	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	1973.1	1973.1	1984.2	1987.8	1987.8	1982.3	1976.7	1982.3	1998.9	2004.6	2002.7
5°	1965.6	1980.5	2000.8	2004.6	2008.2	2006.3	2002.7	2006.3	2024.8	2028.6	2030.4
7.5°	1950.8	1978.6	2004.6	2010.1	2015.6	2010.1	2008.2	2011.9	2030.4	2034.2	2034.2
10°	1932.4	1971.2	2000.8	2004.6	2010.1	2004.6	2004.6	2011.9	2030.4	2034.2	2035.9
12.5°	1906.4	1960.1	1987.8	1991.6	1998.9	1997.1	1995.2	2002.7	2021.2	2024.8	2024.8
15°	1876.8	1939.7	1965.6	1969.3	1982.3	1978.6	1978.6	1986.0	2006.3	2011.9	2010.1
17.5°	1836.1	1913.8	1943.5	1949.0	1958.2	1956.4	1958.2	1965.6	1984.2	1987.8	1989.7
20°	1789.8	1878.6	1913.8	1919.4	1928.6	1928.6	1928.6	1937.9	1956.4	1963.8	1963.8
22.5°	1726.9	1841.7	1878.6	1882.4	1893.5	1893.5	1897.1	1910.1	1926.7	1928.6	1928.6
25°	1652.8	1800.9	1832.4	1843.4	1854.6	1860.2	1865.7	1873.1	1878.6	1876.8	1878.6
27.5°	1575.1	1749.1	1789.8	1797.2	1812.1	1817.6	1824.9	1826.8	1828.7	1834.2	1830.5
30°	1488.1	1676.9	1738.0	1745.4	1769.5	1773.1	1765.7	1769.5	1778.7	1782.4	1786.1
32.5°	1390.0	1569.6	1684.3	1701.0	1723.1	1712.0	1710.2	1715.8	1730.6	1730.6	1734.3
35°	1256.8	1486.3	1634.3	1649.2	1665.8	1652.8	1660.3	1662.1	1671.3	1676.9	1675.0
37.5°	1110.5	1414.1	1582.5	1593.6	1606.6	1589.9	1601.0	1606.6	1614.0	1610.3	1610.3
40°	981.0	1301.2	1521.4	1528.9	1540.0	1527.0	1538.1	1541.8	1545.5	1541.8	1540.0
42.5°	884.7	1177.1	1456.7	1465.9	1458.5	1467.8	1471.4	1478.9	1473.3	1465.9	1465.9
45°	810.7	1143.9	1386.3	1397.5	1386.3	1401.1	1406.7	1406.7	1390.0	1386.3	1384.5
47.5°	786.6	1077.2	1316.0	1316.0	1310.4	1328.9	1338.1	1325.3	1308.5	1303.0	1303.0
50°	784.7	1003.2	1219.7	1212.3	1238.2	1260.4	1251.2	1238.2	1225.3	1205.0	1205.0
52.5°	712.5	912.5	1095.7	1123.5	1164.2	1177.1	1162.4	1149.4	1127.2	1117.9	1110.5
55°	660.8	818.1	982.8	1038.3	1080.9	1097.5	1069.8	1056.8	1023.6	1018.0	1014.3
57.5°	649.7	681.2	879.2	949.5	1001.3	999.5	982.8	958.8	931.0	925.4	923.6
60°	596.0	492.3	768.1	851.4	905.0	899.5	884.7	862.5	836.6	832.9	829.2
62.5°	540.4	357.3	642.2	736.6	812.6	810.7	797.7	764.4	745.9	736.6	729.3
65°	459.1	299.8	457.2	612.6	721.9	725.5	697.8	673.7	653.3	642.2	640.4
67.5°	349.8	244.3	309.1	510.8	634.8	631.2	596.0	584.9	559.0	553.4	542.3
70°	259.1	162.9	214.7	414.6	549.8	540.4	512.7	499.8	475.7	462.7	455.3
72.5°	214.7	131.4	157.3	322.0	462.7	451.6	427.6	412.7	392.4	381.3	373.9
75°	174.0	138.8	120.3	238.7	375.7	368.4	346.1	331.3	314.7	299.8	301.7
77.5°	127.7	129.5	96.2	175.9	297.9	286.9	273.9	255.4	248.0	233.2	233.2
80°	96.2	101.8	72.2	120.3	214.7	214.7	203.6	190.6	177.6	170.3	170.3
82.5°	64.8	64.8	53.7	75.8	146.3	140.7	133.3	129.5	122.2	118.4	118.4
85°	29.6	37.0	33.3	46.2	79.6	83.3	83.3	79.6	77.7	74.1	75.8
87.5°	9.2	16.6	20.4	25.9	40.7	42.6	44.5	44.5	44.5	46.2	46.2
90°	2.9	5.2	7.6	8.1	12.7	18.9	21.9	19.5	14.6	10.9	10.9
92.5°	11.6	31.2	50.8	55.8	78.4	108.5	123.6	108.3	77.7	54.8	52.7
95°	27.7	63.6	99.6	108.5	192.8	305.1	361.3	322.4	244.6	186.2	179.6
97.5°	47.9	79.7	111.3	119.3	259.7	447.0	540.6	516.0	466.8	429.9	417.3
100°	63.5	92.3	121.0	128.2	284.0	491.8	595.7	597.5	601.1	603.8	588.9
102.5°	76.8	103.7	130.5	137.2	295.2	505.9	611.3	642.6	705.3	752.2	739.4
105°	99.4	122.1	144.8	150.5	303.5	507.5	609.5	679.8	820.1	925.5	918.6
107.5°	122.4	143.6	164.8	170.1	305.0	484.9	574.9	672.8	868.6	1015.5	1017.2
110°	138.0	157.1	176.2	181.0	302.7	464.9	546.0	655.5	874.5	1038.7	1045.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.4	171.6	189.8	194.4	302.8	447.5	519.8	631.9	855.9	1023.9	1035.0
115°	176.4	193.2	210.1	214.3	305.6	427.4	488.3	596.3	812.1	974.0	989.3
117.5°	199.2	214.5	229.8	233.6	311.3	414.9	466.6	564.0	758.9	905.0	922.0
120°	212.5	226.9	241.3	244.9	315.9	410.6	457.9	547.0	725.0	858.4	875.0
122.5°	225.6	240.0	254.5	258.2	322.5	408.3	451.3	531.4	691.8	812.0	828.3
125°	245.5	258.6	271.9	275.2	331.5	406.6	444.1	512.2	648.4	750.5	765.4
127.5°	261.6	275.0	288.3	291.7	340.4	405.5	438.0	496.5	613.4	701.1	713.7
130°	270.3	284.7	299.1	302.6	347.0	406.1	435.7	487.7	591.9	670.0	681.6
132.5°	279.3	293.6	308.0	311.6	352.3	406.6	433.7	480.4	573.5	643.3	653.8
135°	292.5	305.6	318.7	321.9	358.1	406.2	430.3	469.3	547.3	605.8	614.9
137.5°	306.1	319.1	331.9	335.2	366.7	408.6	429.6	462.6	528.6	578.1	585.4
140°	317.4	329.3	341.2	344.2	372.0	409.1	427.7	456.2	513.1	555.8	562.7
142.5°	326.0	337.0	348.0	350.8	376.4	410.6	427.7	452.7	502.7	540.2	546.2
145°	339.3	348.9	358.6	361.0	382.3	410.6	424.8	445.2	486.1	516.9	521.4
147.5°	352.6	361.9	371.4	373.7	390.7	413.4	424.8	440.8	473.1	497.3	501.0
150°	361.3	369.8	378.2	380.3	395.2	414.9	424.8	438.4	465.6	486.0	488.9
152.5°	370.1	376.6	383.0	384.6	398.0	415.8	424.8	436.4	459.6	477.0	479.2
155°	383.5	388.3	392.9	394.1	404.3	418.0	424.8	434.0	452.5	466.3	467.8
157.5°	393.3	397.9	402.6	403.7	410.7	420.1	424.8	432.0	446.4	457.1	458.1
160°	399.9	403.5	407.0	408.0	413.6	421.0	424.8	430.9	443.3	452.5	453.1
162.5°	406.6	409.3	412.0	412.6	416.7	422.1	424.8	430.0	440.4	448.1	448.7
165°	413.8	416.2	418.6	419.3	421.1	423.6	424.8	428.5	435.9	441.5	442.2
167.5°	420.4	421.5	422.7	423.0	424.6	426.7	427.7	430.1	435.0	438.6	438.9
170°	424.8	425.9	427.1	427.4	427.5	427.6	427.7	430.1	435.0	438.6	438.6
172.5°	427.1	427.4	427.6	427.7	427.7	427.7	427.7	429.5	433.4	436.3	436.1
175°	430.3	430.3	430.3	430.3	429.5	428.2	427.7	428.9	431.3	433.1	433.1
177.5°	430.3	430.3	430.3	430.3	429.6	428.7	428.2	429.2	431.1	432.5	432.3
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	2006.3	2000.8	2006.3	2002.7	2004.6	1998.9	1982.3	1976.7	1982.3	1987.8	1987.8
5°	2030.4	2026.7	2030.4	2030.4	2028.6	2024.8	2006.3	2002.7	2006.3	2008.2	2004.6
7.5°	2037.8	2032.3	2037.8	2034.2	2034.2	2030.4	2011.9	2008.2	2010.1	2015.6	2010.1
10°	2037.8	2032.3	2037.8	2035.9	2034.2	2030.4	2011.9	2004.6	2004.6	2010.1	2004.6
12.5°	2028.6	2024.8	2028.6	2024.8	2024.8	2021.2	2002.7	1995.2	1997.1	1998.9	1991.6
15°	2013.8	2008.2	2013.8	2010.1	2011.9	2006.3	1986.0	1978.6	1978.6	1982.3	1969.3
17.5°	1991.6	1984.2	1991.6	1989.7	1987.8	1984.2	1965.6	1958.2	1956.4	1958.2	1949.0
20°	1965.6	1960.1	1965.6	1963.8	1963.8	1956.4	1937.9	1928.6	1928.6	1928.6	1919.4
22.5°	1924.9	1919.4	1924.9	1928.6	1928.6	1926.7	1910.1	1897.1	1893.5	1893.5	1882.4
25°	1878.6	1873.1	1878.6	1878.6	1876.8	1878.6	1873.1	1865.7	1860.2	1854.6	1843.4
27.5°	1834.2	1830.5	1834.2	1830.5	1834.2	1828.7	1826.8	1824.9	1817.6	1812.1	1797.2
30°	1789.8	1786.1	1789.8	1786.1	1782.4	1778.7	1769.5	1765.7	1773.1	1769.5	1745.4
32.5°	1734.3	1730.6	1734.3	1734.3	1730.6	1730.6	1715.8	1710.2	1712.0	1723.1	1701.0
35°	1676.9	1671.3	1676.9	1675.0	1676.9	1671.3	1662.1	1660.3	1652.8	1665.8	1649.2
37.5°	1610.3	1604.7	1610.3	1610.3	1610.3	1614.0	1606.6	1601.0	1589.9	1606.6	1593.6
40°	1541.8	1534.4	1541.8	1540.0	1541.8	1545.5	1541.8	1538.1	1527.0	1540.0	1528.9
42.5°	1464.0	1462.2	1464.0	1465.9	1465.9	1473.3	1478.9	1471.4	1467.8	1458.5	1465.9
45°	1380.7	1377.1	1380.7	1384.5	1386.3	1390.0	1406.7	1406.7	1401.1	1386.3	1397.5
47.5°	1291.9	1282.7	1291.9	1303.0	1303.0	1308.5	1325.3	1338.1	1328.9	1310.4	1316.0
50°	1197.5	1199.3	1197.5	1205.0	1205.0	1225.3	1238.2	1251.2	1260.4	1238.2	1212.3
52.5°	1105.0	1103.1	1105.0	1110.5	1117.9	1127.2	1149.4	1162.4	1177.1	1164.2	1123.5
55°	1012.5	1016.1	1012.5	1014.3	1018.0	1023.6	1056.8	1069.8	1097.5	1080.9	1038.3
57.5°	919.9	914.3	919.9	923.6	925.4	931.0	958.8	982.8	999.5	1001.3	949.5
60°	812.6	805.1	812.6	829.2	832.9	836.6	862.5	884.7	899.5	905.0	851.4
62.5°	718.2	705.2	718.2	729.3	736.6	745.9	764.4	797.7	810.7	812.6	736.6
65°	618.2	612.6	618.2	640.4	642.2	653.3	673.7	697.8	725.5	721.9	612.6
67.5°	527.5	527.5	527.5	542.3	553.4	559.0	584.9	596.0	631.2	634.8	510.8
70°	444.2	442.3	444.2	455.3	462.7	475.7	499.8	512.7	540.4	549.8	414.6
72.5°	364.6	362.8	364.6	373.9	381.3	392.4	412.7	427.6	451.6	462.7	322.0
75°	294.3	290.6	294.3	301.7	299.8	314.7	331.3	346.1	368.4	375.7	238.7
77.5°	225.8	225.8	225.8	233.2	233.2	248.0	255.4	273.9	286.9	297.9	175.9
80°	168.4	166.6	168.4	170.3	170.3	177.6	190.6	203.6	214.7	214.7	120.3
82.5°	118.4	114.8	118.4	118.4	118.4	122.2	129.5	133.3	140.7	146.3	75.8
85°	74.1	74.1	74.1	75.8	74.1	77.7	79.6	83.3	83.3	79.6	46.2
87.5°	48.1	46.2	48.1	46.2	46.2	44.5	44.5	44.5	42.6	40.7	25.9
90°	10.9	10.9	10.9	10.9	10.9	14.6	19.5	21.9	18.9	12.7	8.1
92.5°	43.9	35.2	43.9	52.7	54.8	77.7	108.3	123.6	108.5	78.4	55.8
95°	153.2	126.7	153.2	179.6	186.2	244.6	322.4	361.3	305.1	192.8	108.5
97.5°	367.1	316.8	367.1	417.3	429.9	466.8	516.0	540.6	447.0	259.7	119.3
100°	528.9	469.0	528.9	588.9	603.8	601.1	597.5	595.7	491.8	284.0	128.2
102.5°	688.1	636.7	688.1	739.4	752.2	705.3	642.6	611.3	505.9	295.2	137.2
105°	891.0	863.4	891.0	918.6	925.5	820.1	679.8	609.5	507.5	303.5	150.5
107.5°	1023.9	1030.6	1023.9	1017.2	1015.5	868.6	672.8	574.9	484.9	305.0	170.1
110°	1074.6	1103.3	1074.6	1045.9	1038.7	874.5	655.5	546.0	464.9	302.7	181.0



TEST NUMBER: P934491

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1079.1	1123.2	1079.1	1035.0	1023.9	855.9	631.9	519.8	447.5	302.8	194.4
115°	1050.5	1111.7	1050.5	989.3	974.0	812.1	596.3	488.3	427.4	305.6	214.3
117.5°	989.9	1057.8	989.9	922.0	905.0	758.9	564.0	466.6	414.9	311.3	233.6
120°	940.9	1006.9	940.9	875.0	858.4	725.0	547.0	457.9	410.6	315.9	244.9
122.5°	893.4	958.4	893.4	828.3	812.0	691.8	531.4	451.3	408.3	322.5	258.2
125°	825.4	885.3	825.4	765.4	750.5	648.4	512.2	444.1	406.6	331.5	275.2
127.5°	764.3	814.9	764.3	713.7	701.1	613.4	496.5	438.0	405.5	340.4	291.7
130°	728.3	775.0	728.3	681.6	670.0	591.9	487.7	435.7	406.1	347.0	302.6
132.5°	695.6	737.5	695.6	653.8	643.3	573.5	480.4	433.7	406.6	352.3	311.6
135°	650.9	687.0	650.9	614.9	605.8	547.3	469.3	430.3	406.2	358.1	321.9
137.5°	615.0	644.6	615.0	585.4	578.1	528.6	462.6	429.6	408.6	366.7	335.2
140°	590.3	617.9	590.3	562.7	555.8	513.1	456.2	427.7	409.1	372.0	344.2
142.5°	569.9	593.7	569.9	546.2	540.2	502.7	452.7	427.7	410.6	376.4	350.8
145°	539.4	557.3	539.4	521.4	516.9	486.1	445.2	424.8	410.6	382.3	361.0
147.5°	515.8	530.7	515.8	501.0	497.3	473.1	440.8	424.8	413.4	390.7	373.7
150°	501.1	513.1	501.1	488.9	486.0	465.6	438.4	424.8	414.9	395.2	380.3
152.5°	488.4	497.5	488.4	479.2	477.0	459.6	436.4	424.8	415.8	398.0	384.6
155°	473.9	479.9	473.9	467.8	466.3	452.5	434.0	424.8	418.0	404.3	394.1
157.5°	462.4	466.6	462.4	458.1	457.1	446.4	432.0	424.8	420.1	410.7	403.7
160°	455.5	457.9	455.5	453.1	452.5	443.3	430.9	424.8	421.0	413.6	408.0
162.5°	451.0	453.4	451.0	448.7	448.1	440.4	430.0	424.8	422.1	416.7	412.6
165°	444.6	447.0	444.6	442.2	441.5	435.9	428.5	424.8	423.6	421.1	419.3
167.5°	439.9	440.9	439.9	438.9	438.6	435.0	430.1	427.7	426.7	424.6	423.0
170°	438.6	438.6	438.6	438.6	438.6	435.0	430.1	427.7	427.6	427.5	427.4
172.5°	435.2	434.3	435.2	436.1	436.3	433.4	429.5	427.7	427.7	427.7	427.7
175°	433.1	433.1	433.1	433.1	433.1	431.3	428.9	427.7	428.2	429.5	430.3
177.5°	431.3	430.3	431.3	432.3	432.5	431.1	429.2	428.2	428.7	429.6	430.3
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3



TEST NUMBER: P934491

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	1984.2	1973.1	1973.1	1954.5	1947.1	1941.6	1932.4	1904.5	1897.1	1889.8	1900.9
5°	2000.8	1980.5	1965.6	1932.4	1904.5	1893.5	1858.3	1791.7	1747.2	1713.9	1695.4
7.5°	2004.6	1978.6	1950.8	1899.0	1832.4	1802.7	1695.4	1573.2	1540.0	1510.3	1491.8
10°	2000.8	1971.2	1932.4	1854.6	1697.3	1645.4	1538.1	1458.5	1438.2	1432.6	1438.2
12.5°	1987.8	1960.1	1906.4	1776.8	1556.6	1521.4	1458.5	1412.2	1408.6	1417.8	1467.8
15°	1965.6	1939.7	1876.8	1673.2	1478.9	1452.9	1408.6	1391.8	1412.2	1477.0	1626.9
17.5°	1943.5	1913.8	1836.1	1571.4	1419.6	1401.1	1369.6	1403.0	1517.8	1604.7	1654.7
20°	1913.8	1878.6	1789.8	1497.4	1377.1	1360.4	1345.6	1495.5	1582.5	1614.0	1641.7
22.5°	1878.6	1841.7	1726.9	1445.6	1332.6	1319.6	1328.9	1547.4	1582.5	1604.7	1628.8
25°	1832.4	1800.9	1652.8	1404.8	1297.5	1282.7	1317.9	1541.8	1562.1	1567.7	1615.8
27.5°	1789.8	1749.1	1575.1	1367.8	1254.9	1249.3	1327.1	1517.8	1532.5	1538.1	1589.9
30°	1738.0	1676.9	1488.1	1328.9	1210.5	1208.6	1328.9	1488.1	1484.4	1499.3	1551.0
32.5°	1684.3	1569.6	1390.0	1280.8	1167.9	1166.1	1316.0	1443.7	1439.9	1460.3	1499.3
35°	1634.3	1486.3	1256.8	1225.3	1114.3	1116.0	1284.5	1391.8	1393.7	1412.2	1436.3
37.5°	1582.5	1414.1	1110.5	1164.2	1062.4	1062.4	1241.9	1343.7	1340.0	1345.6	1378.9
40°	1521.4	1301.2	981.0	1084.7	1014.3	1008.7	1190.1	1291.9	1278.9	1277.2	1323.4
42.5°	1456.7	1177.1	884.7	979.1	958.8	951.4	1127.2	1229.0	1205.0	1210.5	1269.7
45°	1386.3	1143.9	810.7	827.3	901.4	895.8	1058.7	1156.8	1140.1	1155.0	1216.1
47.5°	1316.0	1077.2	786.6	686.7	840.3	838.5	982.8	1086.4	1077.2	1092.0	1156.8
50°	1219.7	1003.2	784.7	588.6	771.9	779.2	892.2	1018.0	1018.0	1030.9	1099.4
52.5°	1095.7	912.5	712.5	533.0	692.2	714.4	812.6	958.8	962.5	975.4	1036.5
55°	982.8	818.1	660.8	490.4	597.9	646.0	734.8	897.7	905.0	918.0	973.6
57.5°	879.2	681.2	649.7	440.5	510.8	557.1	666.3	838.5	842.2	853.3	906.9
60°	768.1	492.3	596.0	386.9	435.0	470.1	603.4	768.1	781.1	788.5	834.7
62.5°	642.2	357.3	540.4	349.8	398.0	405.4	551.5	701.5	718.2	723.7	751.5
65°	457.2	299.8	459.1	318.3	359.0	360.9	496.0	633.0	647.8	657.1	677.4
67.5°	309.1	244.3	349.8	288.7	329.4	331.3	442.3	553.4	573.8	581.1	594.1
70°	214.7	162.9	259.1	257.3	296.2	299.8	385.0	481.2	499.8	505.3	512.7
72.5°	157.3	131.4	214.7	231.4	261.0	264.7	325.8	399.8	418.3	423.8	427.6
75°	120.3	138.8	174.0	201.7	222.1	224.0	266.6	325.8	338.7	342.4	344.3
77.5°	96.2	129.5	127.7	162.9	181.4	177.6	209.1	251.7	262.8	262.8	262.8
80°	72.2	101.8	96.2	116.6	133.3	129.5	149.9	179.5	183.3	186.9	185.1
82.5°	53.7	64.8	64.8	74.1	88.8	85.2	99.9	116.6	116.6	116.6	120.3
85°	33.3	37.0	29.6	38.9	50.0	48.1	55.6	63.0	64.8	64.8	61.1
87.5°	20.4	16.6	9.2	14.9	22.2	22.2	25.9	27.7	25.9	25.9	25.9
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.7	18.9	21.9	19.5	14.6
92.5°	50.8	31.2	11.6	31.2	50.8	55.8	78.4	108.5	123.6	108.3	77.7
95°	99.6	63.6	27.7	63.6	99.6	108.5	192.8	305.1	361.3	322.4	244.6
97.5°	111.3	79.7	47.9	79.7	111.3	119.3	259.7	447.0	540.6	516.0	466.8
100°	121.0	92.3	63.5	92.3	121.0	128.2	284.0	491.8	595.7	597.5	601.1
102.5°	130.5	103.7	76.8	103.7	130.5	137.2	295.2	505.9	611.3	642.6	705.3
105°	144.8	122.1	99.4	122.1	144.8	150.5	303.5	507.5	609.5	679.8	820.1
107.5°	164.8	143.6	122.4	143.6	164.8	170.1	305.0	484.9	574.9	672.8	868.6
110°	176.2	157.1	138.0	157.1	176.2	181.0	302.7	464.9	546.0	655.5	874.5



TEST NUMBER: P934491

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	189.8	171.6	153.4	171.6	189.8	194.4	302.8	447.5	519.8	631.9	855.9
115°	210.1	193.2	176.4	193.2	210.1	214.3	305.6	427.4	488.3	596.3	812.1
117.5°	229.8	214.5	199.2	214.5	229.8	233.6	311.3	414.9	466.6	564.0	758.9
120°	241.3	226.9	212.5	226.9	241.3	244.9	315.9	410.6	457.9	547.0	725.0
122.5°	254.5	240.0	225.6	240.0	254.5	258.2	322.5	408.3	451.3	531.4	691.8
125°	271.9	258.6	245.5	258.6	271.9	275.2	331.5	406.6	444.1	512.2	648.4
127.5°	288.3	275.0	261.6	275.0	288.3	291.7	340.4	405.5	438.0	496.5	613.4
130°	299.1	284.7	270.3	284.7	299.1	302.6	347.0	406.1	435.7	487.7	591.9
132.5°	308.0	293.6	279.3	293.6	308.0	311.6	352.3	406.6	433.7	480.4	573.5
135°	318.7	305.6	292.5	305.6	318.7	321.9	358.1	406.2	430.3	469.3	547.3
137.5°	331.9	319.1	306.1	319.1	331.9	335.2	366.7	408.6	429.6	462.6	528.6
140°	341.2	329.3	317.4	329.3	341.2	344.2	372.0	409.1	427.7	456.2	513.1
142.5°	348.0	337.0	326.0	337.0	348.0	350.8	376.4	410.6	427.7	452.7	502.7
145°	358.6	348.9	339.3	348.9	358.6	361.0	382.3	410.6	424.8	445.2	486.1
147.5°	371.4	361.9	352.6	361.9	371.4	373.7	390.7	413.4	424.8	440.8	473.1
150°	378.2	369.8	361.3	369.8	378.2	380.3	395.2	414.9	424.8	438.4	465.6
152.5°	383.0	376.6	370.1	376.6	383.0	384.6	398.0	415.8	424.8	436.4	459.6
155°	392.9	388.3	383.5	388.3	392.9	394.1	404.3	418.0	424.8	434.0	452.5
157.5°	402.6	397.9	393.3	397.9	402.6	403.7	410.7	420.1	424.8	432.0	446.4
160°	407.0	403.5	399.9	403.5	407.0	408.0	413.6	421.0	424.8	430.9	443.3
162.5°	412.0	409.3	406.6	409.3	412.0	412.6	416.7	422.1	424.8	430.0	440.4
165°	418.6	416.2	413.8	416.2	418.6	419.3	421.1	423.6	424.8	428.5	435.9
167.5°	422.7	421.5	420.4	421.5	422.7	423.0	424.6	426.7	427.7	430.1	435.0
170°	427.1	425.9	424.8	425.9	427.1	427.4	427.5	427.6	427.7	430.1	435.0
172.5°	427.6	427.4	427.1	427.4	427.6	427.7	427.7	427.7	427.7	429.5	433.4
175°	430.3	430.3	430.3	430.3	430.3	430.3	429.5	428.2	427.7	428.9	431.3
177.5°	430.3	430.3	430.3	430.3	430.3	430.3	429.6	428.7	428.2	429.2	431.1
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3



TEST NUMBER: P934491

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	1887.9	1882.4	1889.8	1869.4	1889.8	1882.4	1887.9	1900.9	1889.8	1897.1	1904.5
5°	1656.5	1647.3	1617.7	1593.6	1617.7	1647.3	1656.5	1695.4	1713.9	1747.2	1791.7
7.5°	1480.7	1473.3	1465.9	1451.1	1465.9	1473.3	1480.7	1491.8	1510.3	1540.0	1573.2
10°	1441.8	1443.7	1454.8	1452.9	1454.8	1443.7	1441.8	1438.2	1432.6	1438.2	1458.5
12.5°	1541.8	1558.5	1619.6	1615.8	1619.6	1558.5	1541.8	1467.8	1417.8	1408.6	1412.2
15°	1656.5	1662.1	1675.0	1676.9	1675.0	1662.1	1656.5	1626.9	1477.0	1412.2	1391.8
17.5°	1667.7	1669.5	1678.8	1678.8	1678.8	1669.5	1667.7	1654.7	1604.7	1517.8	1403.0
20°	1658.4	1662.1	1680.6	1684.3	1680.6	1662.1	1658.4	1641.7	1614.0	1582.5	1495.5
22.5°	1654.7	1662.1	1676.9	1675.0	1676.9	1662.1	1654.7	1628.8	1604.7	1582.5	1547.4
25°	1636.2	1636.2	1638.0	1639.9	1638.0	1636.2	1636.2	1615.8	1567.7	1562.1	1541.8
27.5°	1597.3	1601.0	1612.1	1610.3	1612.1	1601.0	1597.3	1589.9	1538.1	1532.5	1517.8
30°	1562.1	1558.5	1549.2	1541.8	1549.2	1558.5	1562.1	1551.0	1499.3	1484.4	1488.1
32.5°	1502.9	1493.7	1484.4	1478.9	1484.4	1493.7	1502.9	1499.3	1460.3	1439.9	1443.7
35°	1432.6	1434.4	1432.6	1427.1	1432.6	1434.4	1432.6	1436.3	1412.2	1393.7	1391.8
37.5°	1382.6	1386.3	1384.5	1377.1	1384.5	1386.3	1382.6	1378.9	1345.6	1340.0	1343.7
40°	1330.8	1332.6	1330.8	1325.3	1330.8	1332.6	1330.8	1323.4	1277.2	1278.9	1291.9
42.5°	1280.8	1278.9	1273.4	1269.7	1273.4	1278.9	1280.8	1269.7	1210.5	1205.0	1229.0
45°	1223.4	1225.3	1214.2	1208.6	1214.2	1225.3	1223.4	1216.1	1155.0	1140.1	1156.8
47.5°	1166.1	1166.1	1156.8	1151.2	1156.8	1166.1	1166.1	1156.8	1092.0	1077.2	1086.4
50°	1105.0	1103.1	1090.2	1088.3	1090.2	1103.1	1105.0	1099.4	1030.9	1018.0	1018.0
52.5°	1034.7	1034.7	1036.5	1040.2	1036.5	1034.7	1034.7	1036.5	975.4	962.5	958.8
55°	973.6	975.4	988.4	992.1	988.4	975.4	973.6	973.6	918.0	905.0	897.7
57.5°	910.6	910.6	919.9	919.9	919.9	910.6	910.6	906.9	853.3	842.2	838.5
60°	838.5	842.2	849.6	847.7	849.6	842.2	838.5	834.7	788.5	781.1	768.1
62.5°	762.5	766.3	768.1	764.4	768.1	766.3	762.5	751.5	723.7	718.2	701.5
65°	682.9	686.7	688.5	684.8	688.5	686.7	682.9	677.4	657.1	647.8	633.0
67.5°	601.5	599.7	597.9	605.2	597.9	599.7	601.5	594.1	581.1	573.8	553.4
70°	518.3	518.3	516.4	520.1	516.4	518.3	518.3	512.7	505.3	499.8	481.2
72.5°	429.4	427.6	435.0	429.4	435.0	427.6	429.4	427.6	423.8	418.3	399.8
75°	342.4	346.1	342.4	348.0	342.4	346.1	342.4	344.3	342.4	338.7	325.8
77.5°	261.0	264.7	261.0	261.0	261.0	264.7	261.0	262.8	262.8	262.8	251.7
80°	185.1	183.3	183.3	181.4	183.3	183.3	185.1	185.1	186.9	183.3	179.5
82.5°	118.4	116.6	116.6	120.3	116.6	116.6	118.4	120.3	116.6	116.6	116.6
85°	64.8	66.6	63.0	63.0	63.0	66.6	64.8	61.1	64.8	64.8	63.0
87.5°	24.1	22.2	22.2	22.2	22.2	22.2	24.1	25.9	25.9	25.9	27.7
90°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	14.6	19.5	21.9	18.9
92.5°	54.8	52.7	43.9	35.2	43.9	52.7	54.8	77.7	108.3	123.6	108.5
95°	186.2	179.6	153.2	126.7	153.2	179.6	186.2	244.6	322.4	361.3	305.1
97.5°	429.9	417.3	367.1	316.8	367.1	417.3	429.9	466.8	516.0	540.6	447.0
100°	603.8	588.9	528.9	469.0	528.9	588.9	603.8	601.1	597.5	595.7	491.8
102.5°	752.2	739.4	688.1	636.7	688.1	739.4	752.2	705.3	642.6	611.3	505.9
105°	925.5	918.6	891.0	863.4	891.0	918.6	925.5	820.1	679.8	609.5	507.5
107.5°	1015.5	1017.2	1023.9	1030.6	1023.9	1017.2	1015.5	868.6	672.8	574.9	484.9
110°	1038.7	1045.9	1074.6	1103.3	1074.6	1045.9	1038.7	874.5	655.5	546.0	464.9



TEST NUMBER: P934491

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1023.9	1035.0	1079.1	1123.2	1079.1	1035.0	1023.9	855.9	631.9	519.8	447.5
115°	974.0	989.3	1050.5	1111.7	1050.5	989.3	974.0	812.1	596.3	488.3	427.4
117.5°	905.0	922.0	989.9	1057.8	989.9	922.0	905.0	758.9	564.0	466.6	414.9
120°	858.4	875.0	940.9	1006.9	940.9	875.0	858.4	725.0	547.0	457.9	410.6
122.5°	812.0	828.3	893.4	958.4	893.4	828.3	812.0	691.8	531.4	451.3	408.3
125°	750.5	765.4	825.4	885.3	825.4	765.4	750.5	648.4	512.2	444.1	406.6
127.5°	701.1	713.7	764.3	814.9	764.3	713.7	701.1	613.4	496.5	438.0	405.5
130°	670.0	681.6	728.3	775.0	728.3	681.6	670.0	591.9	487.7	435.7	406.1
132.5°	643.3	653.8	695.6	737.5	695.6	653.8	643.3	573.5	480.4	433.7	406.6
135°	605.8	614.9	650.9	687.0	650.9	614.9	605.8	547.3	469.3	430.3	406.2
137.5°	578.1	585.4	615.0	644.6	615.0	585.4	578.1	528.6	462.6	429.6	408.6
140°	555.8	562.7	590.3	617.9	590.3	562.7	555.8	513.1	456.2	427.7	409.1
142.5°	540.2	546.2	569.9	593.7	569.9	546.2	540.2	502.7	452.7	427.7	410.6
145°	516.9	521.4	539.4	557.3	539.4	521.4	516.9	486.1	445.2	424.8	410.6
147.5°	497.3	501.0	515.8	530.7	515.8	501.0	497.3	473.1	440.8	424.8	413.4
150°	486.0	488.9	501.1	513.1	501.1	488.9	486.0	465.6	438.4	424.8	414.9
152.5°	477.0	479.2	488.4	497.5	488.4	479.2	477.0	459.6	436.4	424.8	415.8
155°	466.3	467.8	473.9	479.9	473.9	467.8	466.3	452.5	434.0	424.8	418.0
157.5°	457.1	458.1	462.4	466.6	462.4	458.1	457.1	446.4	432.0	424.8	420.1
160°	452.5	453.1	455.5	457.9	455.5	453.1	452.5	443.3	430.9	424.8	421.0
162.5°	448.1	448.7	451.0	453.4	451.0	448.7	448.1	440.4	430.0	424.8	422.1
165°	441.5	442.2	444.6	447.0	444.6	442.2	441.5	435.9	428.5	424.8	423.6
167.5°	438.6	438.9	439.9	440.9	439.9	438.9	438.6	435.0	430.1	427.7	426.7
170°	438.6	438.6	438.6	438.6	438.6	438.6	438.6	435.0	430.1	427.7	427.6
172.5°	436.3	436.1	435.2	434.3	435.2	436.1	436.3	433.4	429.5	427.7	427.7
175°	433.1	433.1	433.1	433.1	433.1	433.1	433.1	431.3	428.9	427.7	428.2
177.5°	432.5	432.3	431.3	430.3	431.3	432.3	432.5	431.1	429.2	428.2	428.7
180°	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	1932.4	1941.6	1947.1	1954.5	1973.1
5°	1858.3	1893.5	1904.5	1932.4	1965.6
7.5°	1695.4	1802.7	1832.4	1899.0	1950.8
10°	1538.1	1645.4	1697.3	1854.6	1932.4
12.5°	1458.5	1521.4	1556.6	1776.8	1906.4
15°	1408.6	1452.9	1478.9	1673.2	1876.8
17.5°	1369.6	1401.1	1419.6	1571.4	1836.1
20°	1345.6	1360.4	1377.1	1497.4	1789.8
22.5°	1328.9	1319.6	1332.6	1445.6	1726.9
25°	1317.9	1282.7	1297.5	1404.8	1652.8
27.5°	1327.1	1249.3	1254.9	1367.8	1575.1
30°	1328.9	1208.6	1210.5	1328.9	1488.1
32.5°	1316.0	1166.1	1167.9	1280.8	1390.0
35°	1284.5	1116.0	1114.3	1225.3	1256.8
37.5°	1241.9	1062.4	1062.4	1164.2	1110.5
40°	1190.1	1008.7	1014.3	1084.7	981.0
42.5°	1127.2	951.4	958.8	979.1	884.7
45°	1058.7	895.8	901.4	827.3	810.7
47.5°	982.8	838.5	840.3	686.7	786.6
50°	892.2	779.2	771.9	588.6	784.7
52.5°	812.6	714.4	692.2	533.0	712.5
55°	734.8	646.0	597.9	490.4	660.8
57.5°	666.3	557.1	510.8	440.5	649.7
60°	603.4	470.1	435.0	386.9	596.0
62.5°	551.5	405.4	398.0	349.8	540.4
65°	496.0	360.9	359.0	318.3	459.1
67.5°	442.3	331.3	329.4	288.7	349.8
70°	385.0	299.8	296.2	257.3	259.1
72.5°	325.8	264.7	261.0	231.4	214.7
75°	266.6	224.0	222.1	201.7	174.0
77.5°	209.1	177.6	181.4	162.9	127.7
80°	149.9	129.5	133.3	116.6	96.2
82.5°	99.9	85.2	88.8	74.1	64.8
85°	55.6	48.1	50.0	38.9	29.6
87.5°	25.9	22.2	22.2	14.9	9.2
90°	12.7	8.1	7.6	5.2	2.9
92.5°	78.4	55.8	50.8	31.2	11.6
95°	192.8	108.5	99.6	63.6	27.7
97.5°	259.7	119.3	111.3	79.7	47.9
100°	284.0	128.2	121.0	92.3	63.5
102.5°	295.2	137.2	130.5	103.7	76.8
105°	303.5	150.5	144.8	122.1	99.4
107.5°	305.0	170.1	164.8	143.6	122.4
110°	302.7	181.0	176.2	157.1	138.0



TEST NUMBER: P934491

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	302.8	194.4	189.8	171.6	153.4
115°	305.6	214.3	210.1	193.2	176.4
117.5°	311.3	233.6	229.8	214.5	199.2
120°	315.9	244.9	241.3	226.9	212.5
122.5°	322.5	258.2	254.5	240.0	225.6
125°	331.5	275.2	271.9	258.6	245.5
127.5°	340.4	291.7	288.3	275.0	261.6
130°	347.0	302.6	299.1	284.7	270.3
132.5°	352.3	311.6	308.0	293.6	279.3
135°	358.1	321.9	318.7	305.6	292.5
137.5°	366.7	335.2	331.9	319.1	306.1
140°	372.0	344.2	341.2	329.3	317.4
142.5°	376.4	350.8	348.0	337.0	326.0
145°	382.3	361.0	358.6	348.9	339.3
147.5°	390.7	373.7	371.4	361.9	352.6
150°	395.2	380.3	378.2	369.8	361.3
152.5°	398.0	384.6	383.0	376.6	370.1
155°	404.3	394.1	392.9	388.3	383.5
157.5°	410.7	403.7	402.6	397.9	393.3
160°	413.6	408.0	407.0	403.5	399.9
162.5°	416.7	412.6	412.0	409.3	406.6
165°	421.1	419.3	418.6	416.2	413.8
167.5°	424.6	423.0	422.7	421.5	420.4
170°	427.5	427.4	427.1	425.9	424.8
172.5°	427.7	427.7	427.6	427.4	427.1
175°	429.5	430.3	430.3	430.3	430.3
177.5°	429.6	430.3	430.3	430.3	430.3
180°	430.3	430.3	430.3	430.3	430.3



TEST NUMBER: P934491
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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	14.71	15.72	15.53	16.56	17.61	17.53	18.54	18.35	19.39	20.43
	3H	15.20	16.10	16.03	16.96	18.03	18.89	19.79	19.72	20.65	21.72
	4H	15.39	16.25	16.25	17.11	18.20	19.34	20.19	20.19	21.05	22.14
	6H	15.52	16.31	16.38	17.18	18.28	19.63	20.42	20.49	21.28	22.38
	8H	15.53	16.28	16.40	17.16	18.26	19.71	20.46	20.58	21.34	22.44
	12H	15.50	16.22	16.38	17.10	18.22	19.75	20.46	20.63	21.34	22.47
4H	2H	15.76	16.61	16.61	17.47	18.56	17.96	18.81	18.82	19.68	20.76
	3H	16.80	17.51	17.67	18.40	19.51	19.48	20.19	20.35	21.08	22.19
	4H	17.08	17.73	17.96	18.62	19.75	20.01	20.66	20.89	21.55	22.68
	6H	17.21	17.77	18.11	18.69	19.82	20.38	20.94	21.28	21.86	22.99
	8H	17.22	17.75	18.12	18.66	19.80	20.49	21.02	21.39	21.92	23.07
	12H	17.20	17.67	18.12	18.60	19.75	20.56	21.03	21.47	21.95	23.10
8H	4H	17.55	18.07	18.44	18.98	20.12	20.15	20.67	21.05	21.58	22.72
	6H	17.81	18.25	18.74	19.20	20.34	20.59	21.02	21.51	21.97	23.12
	8H	17.86	18.24	18.79	19.18	20.34	20.74	21.12	21.68	22.07	23.23
	12H	17.85	18.19	18.79	19.12	20.33	20.84	21.18	21.78	22.12	23.33
12H	4H	17.56	18.03	18.48	18.96	20.11	20.12	20.59	21.04	21.52	22.67
	6H	17.87	18.26	18.81	19.20	20.36	20.59	20.97	21.52	21.91	23.07
	8H	17.95	18.29	18.89	19.22	20.43	20.75	21.09	21.69	22.03	23.24