

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: P934490

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934490
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-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

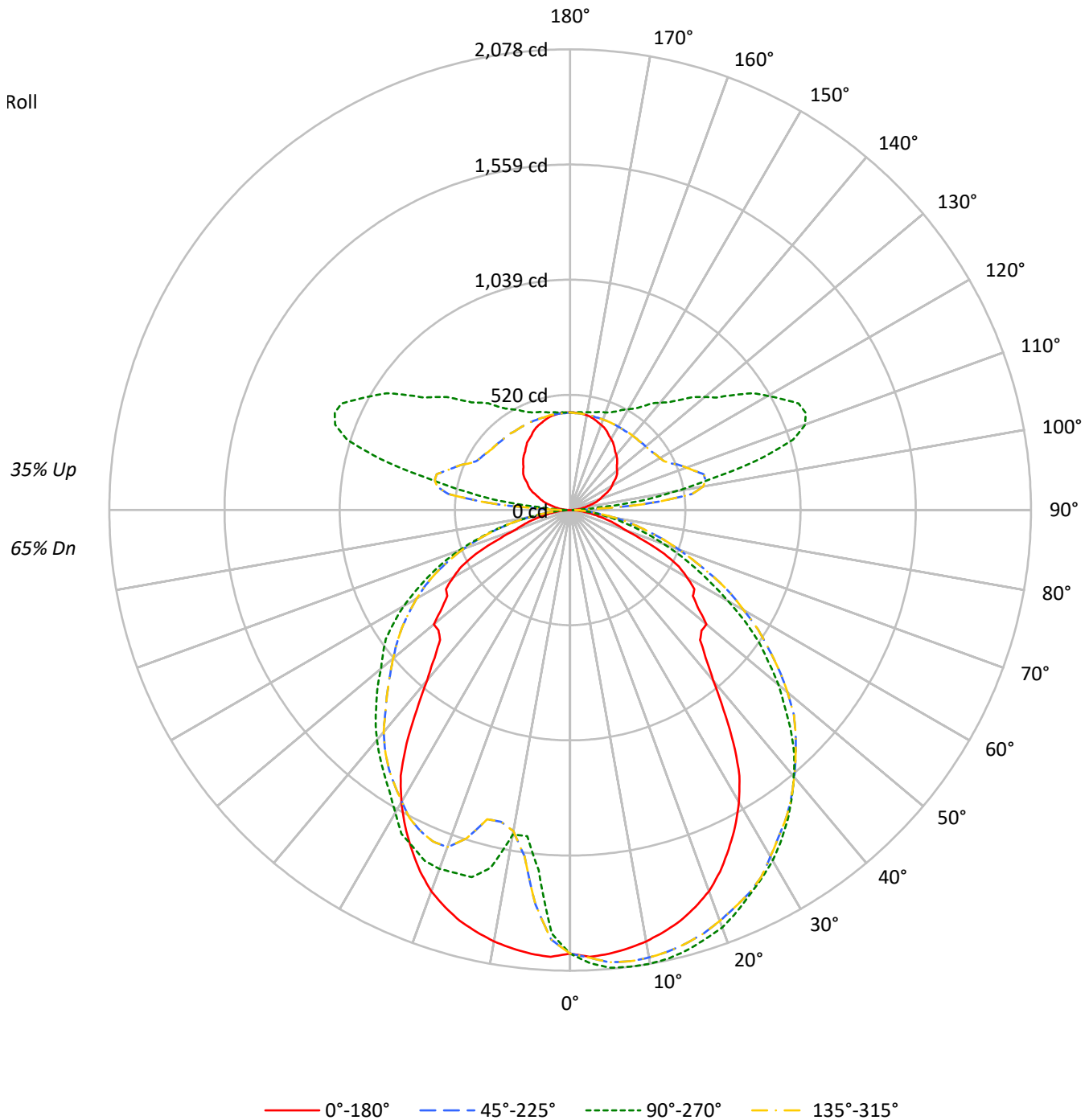
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8040.2 lumens
Efficiency: N/A
Efficacy: 118.6 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
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12374	12374	12374	12374
5°	12462	12492	12462	9822
10°	12375	12305	12375	8797
15°	12235	12038	12235	10052
20°	11975	11723	11975	10073
25°	11446	11262	11446	9860
30°	10765	10879	10765	9391
35°	9592	10395	9592	8876
40°	7988	9826	7988	8487
45°	7133	9160	7133	8039
50°	7572	8364	7572	7590
55°	7118	7508	7118	7331
60°	7328	6376	7328	6714
65°	6634	5271	6634	5892
70°	4581	4201	4581	4938
75°	4003	3105	4003	3719
80°	3203	2054	3203	2236
85°	1806	1087	1806	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10940 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.2
10°-20°	512.7	6.4
20°-30°	792.5	9.9
30°-40°	946.1	11.8
40°-50°	951.6	11.8
50°-60°	828.0	10.3
60°-70°	587.1	7.3
70°-80°	310.6	3.9
80°-90°	79.0	1.0
90°-100°	214.4	2.7
100°-110°	563.8	7.0
110°-120°	584.6	7.3
120°-130°	468.9	5.8
130°-140°	367.9	4.6
140°-150°	282.4	3.5
150°-160°	203.4	2.5
160°-170°	124.4	1.5
170°-180°	42.0	0.5
0°-30°	1485.8	18.5
0°-40°	2431.9	30.2
0°-60°	4211.6	52.4
0°-90°	5188.3	64.5
90°-120°	1362.8	16.9
90°-150°	2482.0	30.9
90°-180°	2852.0	35.5
0°-180°	8040.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2000	2000	2000	2000	2000	
5°	2010	2072	2010	1629	2010	191
15°	1919	2053	1919	1715	1919	540
25°	1690	1915	1690	1677	1690	776
35°	1285	1709	1285	1459	1285	795
45°	829	1408	829	1236	829	664
55°	676	1039	676	1014	676	621
65°	469	626	469	700	469	449
75°	178	297	178	356	178	187
85°	30	76	30	64	30	41
90°	3	11	3	11	3	4
95°	28	130	28	130	28	31
105°	102	883	102	883	102	108
115°	180	1137	180	1137	180	178
125°	251	905	251	905	251	223
135°	299	702	299	702	299	231
145°	347	570	347	570	347	217
155°	392	491	392	491	392	180
165°	423	457	423	457	423	119
175°	440	443	440	443	440	42
180°	440	440	440	440	440	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2017.4	2017.4	2028.8	2032.5	2032.5	2026.9	2021.2	2026.9	2043.9	2049.6	2047.7
5°	2009.8	2025.0	2045.8	2049.6	2053.3	2051.4	2047.7	2051.4	2070.3	2074.2	2076.1
7.5°	1994.7	2023.1	2049.6	2055.3	2060.9	2055.3	2053.3	2057.2	2076.1	2079.9	2079.9
10°	1975.8	2015.5	2045.8	2049.6	2055.3	2049.6	2049.6	2057.2	2076.1	2079.9	2081.7
12.5°	1949.3	2004.2	2032.5	2036.3	2043.9	2042.0	2040.1	2047.7	2066.6	2070.3	2070.3
15°	1919.0	1983.3	2009.8	2013.6	2026.9	2023.1	2023.1	2030.6	2051.4	2057.2	2055.3
17.5°	1877.3	1956.8	1987.2	1992.8	2002.3	2000.3	2002.3	2009.8	2028.8	2032.5	2034.4
20°	1830.1	1920.9	1956.8	1962.5	1972.0	1972.0	1972.0	1981.4	2000.3	2008.0	2008.0
22.5°	1765.7	1883.1	1920.9	1924.7	1936.1	1936.1	1939.8	1953.1	1970.1	1972.0	1972.0
25°	1690.0	1841.4	1873.6	1884.9	1896.2	1902.0	1907.6	1915.3	1920.9	1919.0	1920.9
27.5°	1610.5	1788.4	1830.1	1837.6	1852.8	1858.4	1866.0	1867.9	1869.8	1875.4	1871.7
30°	1521.6	1714.6	1777.1	1784.6	1809.2	1813.0	1805.4	1809.2	1818.7	1822.5	1826.2
32.5°	1421.2	1604.9	1722.2	1739.2	1761.9	1750.5	1748.7	1754.3	1769.5	1769.5	1773.2
35°	1285.0	1519.7	1671.1	1686.2	1703.2	1690.0	1697.6	1699.4	1708.9	1714.6	1712.7
37.5°	1135.5	1445.9	1618.1	1629.4	1642.7	1625.7	1637.0	1642.7	1650.2	1646.5	1646.5
40°	1003.0	1330.4	1555.6	1563.2	1574.6	1561.3	1572.7	1576.4	1580.2	1576.4	1574.6
42.5°	904.6	1203.6	1489.4	1498.9	1491.3	1500.8	1504.5	1512.1	1506.4	1498.9	1498.9
45°	828.9	1169.6	1417.5	1428.9	1417.5	1432.6	1438.3	1438.3	1421.2	1417.5	1415.6
47.5°	804.3	1101.4	1345.6	1345.6	1339.9	1358.8	1368.2	1355.0	1338.0	1332.3	1332.3
50°	802.4	1025.8	1247.1	1239.6	1266.0	1288.8	1279.3	1266.0	1252.9	1232.0	1232.0
52.5°	728.6	933.0	1120.3	1148.8	1190.4	1203.6	1188.5	1175.2	1152.5	1143.0	1135.5
55°	675.7	836.5	1004.9	1061.7	1105.2	1122.2	1093.9	1080.6	1046.6	1040.9	1037.1
57.5°	664.3	696.5	898.9	970.9	1023.9	1021.9	1004.9	980.3	951.9	946.2	944.4
60°	609.4	503.4	785.4	870.6	925.4	919.8	904.6	881.9	855.4	851.7	847.8
62.5°	552.6	365.3	656.7	753.2	830.8	828.9	815.7	781.6	762.7	753.2	745.7
65°	469.4	306.6	467.5	626.4	738.1	741.8	713.5	688.8	668.0	656.7	654.8
67.5°	357.6	249.8	316.0	522.3	649.1	645.4	609.4	598.0	571.6	565.8	554.5
70°	264.9	166.6	219.6	423.9	562.1	552.6	524.2	511.0	486.4	473.1	465.6
72.5°	219.6	134.4	160.8	329.3	473.1	461.7	437.2	422.0	401.2	389.8	382.3
75°	177.9	141.9	123.0	244.1	384.2	376.7	353.9	338.7	321.7	306.6	308.5
77.5°	130.5	132.5	98.4	179.8	304.6	293.4	280.1	261.2	253.6	238.5	238.5
80°	98.4	104.1	73.8	123.0	219.6	219.6	208.2	194.9	181.6	174.1	174.1
82.5°	66.3	66.3	54.9	77.5	149.6	143.8	136.3	132.5	124.9	121.1	121.1
85°	30.3	37.8	34.1	47.3	81.4	85.2	85.2	81.4	79.5	75.7	77.5
87.5°	9.5	17.0	20.8	26.5	41.6	43.5	45.5	45.5	45.5	47.3	47.3
90°	3.0	5.3	7.7	8.3	13.0	19.3	22.4	20.0	14.9	11.2	11.2
92.5°	11.8	31.9	52.0	57.0	80.1	111.0	126.3	110.7	79.5	56.1	53.9
95°	28.4	65.0	101.8	111.0	197.1	312.0	369.4	329.7	250.1	190.4	183.6
97.5°	49.0	81.5	113.8	122.0	265.6	457.1	552.8	527.6	477.3	439.6	426.7
100°	64.9	94.4	123.8	131.1	290.4	502.9	609.1	610.9	614.6	617.4	602.1
102.5°	78.5	106.0	133.4	140.3	301.9	517.3	625.0	657.0	721.1	769.2	756.1
105°	101.6	124.8	148.0	153.9	310.3	518.9	623.2	695.0	838.6	946.3	939.2
107.5°	125.2	146.9	168.5	173.9	311.9	495.8	587.8	687.9	888.2	1038.4	1040.1
110°	141.1	160.6	180.2	185.1	309.5	475.4	558.3	670.2	894.2	1062.1	1069.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	156.8	175.4	194.1	198.7	309.6	457.5	531.5	646.1	875.2	1047.0	1058.2
115°	180.4	197.6	214.8	219.1	312.5	437.0	499.3	609.7	830.4	995.9	1011.5
117.5°	203.7	219.4	234.9	238.8	318.3	424.2	477.1	576.7	775.9	925.3	942.7
120°	217.3	232.0	246.7	250.4	323.0	419.8	468.2	559.2	741.3	877.7	894.6
122.5°	230.6	245.4	260.2	264.0	329.8	417.5	461.5	543.4	707.4	830.3	846.9
125°	251.0	264.4	278.0	281.3	338.9	415.7	454.1	523.7	663.0	767.3	782.6
127.5°	267.5	281.2	294.8	298.2	348.1	414.7	447.9	507.7	627.1	716.8	729.7
130°	276.4	291.1	305.8	309.4	354.8	415.2	445.5	498.7	605.2	685.0	697.0
132.5°	285.5	300.3	315.0	318.6	360.2	415.7	443.5	491.2	586.4	657.8	668.5
135°	299.1	312.5	325.8	329.2	366.1	415.3	440.0	479.9	559.6	619.4	628.7
137.5°	313.0	326.2	339.4	342.7	374.9	417.8	439.3	473.0	540.4	591.0	598.6
140°	324.5	336.7	348.9	351.9	380.4	418.3	437.3	466.4	524.7	568.3	575.4
142.5°	333.3	344.6	355.8	358.7	384.9	419.8	437.3	462.9	514.0	552.4	558.5
145°	347.0	356.8	366.6	369.1	390.9	419.8	434.3	455.2	497.1	528.5	533.1
147.5°	360.5	370.1	379.7	382.1	399.5	422.7	434.3	450.8	483.7	508.4	512.3
150°	369.4	378.1	386.7	388.9	404.1	424.2	434.3	448.3	476.1	496.9	499.9
152.5°	378.5	385.1	391.6	393.3	406.9	425.2	434.3	446.2	470.0	487.7	490.0
155°	392.1	397.0	401.8	403.0	413.4	427.4	434.3	443.8	462.7	476.8	478.4
157.5°	402.2	406.8	411.6	412.8	419.9	429.6	434.3	441.7	456.4	467.4	468.4
160°	408.9	412.6	416.2	417.1	422.9	430.5	434.3	440.6	453.2	462.7	463.3
162.5°	415.7	418.5	421.3	421.9	426.0	431.6	434.3	439.7	450.3	458.2	458.8
165°	423.1	425.5	428.0	428.7	430.6	433.1	434.3	438.2	445.7	451.4	452.1
167.5°	429.8	431.0	432.2	432.5	434.1	436.2	437.3	439.8	444.7	448.5	448.8
170°	434.3	435.5	436.7	437.0	437.1	437.2	437.3	439.8	444.7	448.5	448.5
172.5°	436.7	437.0	437.2	437.3	437.3	437.3	437.3	439.2	443.1	446.1	445.9
175°	440.0	440.0	440.0	440.0	439.1	437.9	437.3	438.5	441.0	442.8	442.8
177.5°	440.0	440.0	440.0	440.0	439.3	438.3	437.9	438.8	440.8	442.3	442.0
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2051.4	2045.8	2051.4	2047.7	2049.6	2043.9	2026.9	2021.2	2026.9	2032.5	2032.5
5°	2076.1	2072.3	2076.1	2076.1	2074.2	2070.3	2051.4	2047.7	2051.4	2053.3	2049.6
7.5°	2083.6	2078.0	2083.6	2079.9	2079.9	2076.1	2057.2	2053.3	2055.3	2060.9	2055.3
10°	2083.6	2078.0	2083.6	2081.7	2079.9	2076.1	2057.2	2049.6	2049.6	2055.3	2049.6
12.5°	2074.2	2070.3	2074.2	2070.3	2070.3	2066.6	2047.7	2040.1	2042.0	2043.9	2036.3
15°	2059.1	2053.3	2059.1	2055.3	2057.2	2051.4	2030.6	2023.1	2023.1	2026.9	2013.6
17.5°	2036.3	2028.8	2036.3	2034.4	2032.5	2028.8	2009.8	2002.3	2000.3	2002.3	1992.8
20°	2009.8	2004.2	2009.8	2008.0	2008.0	2000.3	1981.4	1972.0	1972.0	1972.0	1962.5
22.5°	1968.2	1962.5	1968.2	1972.0	1972.0	1970.1	1953.1	1939.8	1936.1	1936.1	1924.7
25°	1920.9	1915.3	1920.9	1920.9	1919.0	1920.9	1915.3	1907.6	1902.0	1896.2	1884.9
27.5°	1875.4	1871.7	1875.4	1871.7	1875.4	1869.8	1867.9	1866.0	1858.4	1852.8	1837.6
30°	1830.1	1826.2	1830.1	1826.2	1822.5	1818.7	1809.2	1805.4	1813.0	1809.2	1784.6
32.5°	1773.2	1769.5	1773.2	1773.2	1769.5	1769.5	1754.3	1748.7	1750.5	1761.9	1739.2
35°	1714.6	1708.9	1714.6	1712.7	1714.6	1708.9	1699.4	1697.6	1690.0	1703.2	1686.2
37.5°	1646.5	1640.8	1646.5	1646.5	1646.5	1650.2	1642.7	1637.0	1625.7	1642.7	1629.4
40°	1576.4	1568.9	1576.4	1574.6	1576.4	1580.2	1576.4	1572.7	1561.3	1574.6	1563.2
42.5°	1497.0	1495.1	1497.0	1498.9	1498.9	1506.4	1512.1	1504.5	1500.8	1491.3	1498.9
45°	1411.8	1408.1	1411.8	1415.6	1417.5	1421.2	1438.3	1438.3	1432.6	1417.5	1428.9
47.5°	1321.0	1311.5	1321.0	1332.3	1332.3	1338.0	1355.0	1368.2	1358.8	1339.9	1345.6
50°	1224.4	1226.3	1224.4	1232.0	1232.0	1252.9	1266.0	1279.3	1288.8	1266.0	1239.6
52.5°	1129.9	1128.0	1129.9	1135.5	1143.0	1152.5	1175.2	1188.5	1203.6	1190.4	1148.8
55°	1035.2	1038.9	1035.2	1037.1	1040.9	1046.6	1080.6	1093.9	1122.2	1105.2	1061.7
57.5°	940.6	934.8	940.6	944.4	946.2	951.9	980.3	1004.9	1021.9	1023.9	970.9
60°	830.8	823.2	830.8	847.8	851.7	855.4	881.9	904.6	919.8	925.4	870.6
62.5°	734.3	721.0	734.3	745.7	753.2	762.7	781.6	815.7	828.9	830.8	753.2
65°	632.1	626.4	632.1	654.8	656.7	668.0	688.8	713.5	741.8	738.1	626.4
67.5°	539.4	539.4	539.4	554.5	565.8	571.6	598.0	609.4	645.4	649.1	522.3
70°	454.2	452.3	454.2	465.6	473.1	486.4	511.0	524.2	552.6	562.1	423.9
72.5°	372.8	370.9	372.8	382.3	389.8	401.2	422.0	437.2	461.7	473.1	329.3
75°	300.9	297.1	300.9	308.5	306.6	321.7	338.7	353.9	376.7	384.2	244.1
77.5°	230.9	230.9	230.9	238.5	238.5	253.6	261.2	280.1	293.4	304.6	179.8
80°	172.2	170.4	172.2	174.1	174.1	181.6	194.9	208.2	219.6	219.6	123.0
82.5°	121.1	117.4	121.1	121.1	121.1	124.9	132.5	136.3	143.8	149.6	77.5
85°	75.7	75.7	75.7	77.5	75.7	79.5	81.4	85.2	85.2	81.4	47.3
87.5°	49.2	47.3	49.2	47.3	47.3	45.5	45.5	45.5	43.5	41.6	26.5
90°	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.4	19.3	13.0	8.3
92.5°	44.9	36.0	44.9	53.9	56.1	79.5	110.7	126.3	111.0	80.1	57.0
95°	156.6	129.6	156.6	183.6	190.4	250.1	329.7	369.4	312.0	197.1	111.0
97.5°	375.3	323.9	375.3	426.7	439.6	477.3	527.6	552.8	457.1	265.6	122.0
100°	540.8	479.5	540.8	602.1	617.4	614.6	610.9	609.1	502.9	290.4	131.1
102.5°	703.5	651.0	703.5	756.1	769.2	721.1	657.0	625.0	517.3	301.9	140.3
105°	911.1	882.8	911.1	939.2	946.3	838.6	695.0	623.2	518.9	310.3	153.9
107.5°	1046.9	1053.7	1046.9	1040.1	1038.4	888.2	687.9	587.8	495.8	311.9	173.9
110°	1098.7	1128.1	1098.7	1069.4	1062.1	894.2	670.2	558.3	475.4	309.5	185.1



TEST NUMBER: P934490

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1103.4	1148.5	1103.4	1058.2	1047.0	875.2	646.1	531.5	457.5	309.6	198.7
115°	1074.1	1136.7	1074.1	1011.5	995.9	830.4	609.7	499.3	437.0	312.5	219.1
117.5°	1012.1	1081.5	1012.1	942.7	925.3	775.9	576.7	477.1	424.2	318.3	238.8
120°	962.1	1029.6	962.1	894.6	877.7	741.3	559.2	468.2	419.8	323.0	250.4
122.5°	913.5	979.9	913.5	846.9	830.3	707.4	543.4	461.5	417.5	329.8	264.0
125°	843.9	905.2	843.9	782.6	767.3	663.0	523.7	454.1	415.7	338.9	281.3
127.5°	781.5	833.2	781.5	729.7	716.8	627.1	507.7	447.9	414.7	348.1	298.2
130°	744.7	792.5	744.7	697.0	685.0	605.2	498.7	445.5	415.2	354.8	309.4
132.5°	711.3	754.1	711.3	668.5	657.8	586.4	491.2	443.5	415.7	360.2	318.6
135°	665.5	702.4	665.5	628.7	619.4	559.6	479.9	440.0	415.3	366.1	329.2
137.5°	628.9	659.0	628.9	598.6	591.0	540.4	473.0	439.3	417.8	374.9	342.7
140°	603.6	631.8	603.6	575.4	568.3	524.7	466.4	437.3	418.3	380.4	351.9
142.5°	582.7	607.0	582.7	558.5	552.4	514.0	462.9	437.3	419.8	384.9	358.7
145°	551.5	569.8	551.5	533.1	528.5	497.1	455.2	434.3	419.8	390.9	369.1
147.5°	527.4	542.6	527.4	512.3	508.4	483.7	450.8	434.3	422.7	399.5	382.1
150°	512.4	524.7	512.4	499.9	496.9	476.1	448.3	434.3	424.2	404.1	388.9
152.5°	499.4	508.7	499.4	490.0	487.7	470.0	446.2	434.3	425.2	406.9	393.3
155°	484.6	490.7	484.6	478.4	476.8	462.7	443.8	434.3	427.4	413.4	403.0
157.5°	472.8	477.1	472.8	468.4	467.4	456.4	441.7	434.3	429.6	419.9	412.8
160°	465.8	468.2	465.8	463.3	462.7	453.2	440.6	434.3	430.5	422.9	417.1
162.5°	461.2	463.6	461.2	458.8	458.2	450.3	439.7	434.3	431.6	426.0	421.9
165°	454.6	457.1	454.6	452.1	451.4	445.7	438.2	434.3	433.1	430.6	428.7
167.5°	449.8	450.9	449.8	448.8	448.5	444.7	439.8	437.3	436.2	434.1	432.5
170°	448.5	448.5	448.5	448.5	448.5	444.7	439.8	437.3	437.2	437.1	437.0
172.5°	444.9	444.1	444.9	445.9	446.1	443.1	439.2	437.3	437.3	437.3	437.3
175°	442.8	442.8	442.8	442.8	442.8	441.0	438.5	437.3	437.9	439.1	440.0
177.5°	441.0	440.0	441.0	442.0	442.3	440.8	438.8	437.9	438.3	439.3	440.0
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934490

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2028.8	2017.4	2017.4	1998.4	1990.9	1985.3	1975.8	1947.3	1939.8	1932.3	1943.6
5°	2045.8	2025.0	2009.8	1975.8	1947.3	1936.1	1900.1	1832.0	1786.5	1752.4	1733.5
7.5°	2049.6	2023.1	1994.7	1941.7	1873.6	1843.2	1733.5	1608.6	1574.6	1544.2	1525.3
10°	2045.8	2015.5	1975.8	1896.2	1735.4	1682.4	1572.7	1491.3	1470.5	1464.8	1470.5
12.5°	2032.5	2004.2	1949.3	1816.8	1591.6	1555.6	1491.3	1444.0	1440.2	1449.7	1500.8
15°	2009.8	1983.3	1919.0	1710.8	1512.1	1485.6	1440.2	1423.1	1444.0	1510.2	1663.5
17.5°	1987.2	1956.8	1877.3	1606.7	1451.5	1432.6	1400.4	1434.5	1551.9	1640.8	1691.9
20°	1956.8	1920.9	1830.1	1531.1	1408.1	1391.0	1375.9	1529.1	1618.1	1650.2	1678.6
22.5°	1920.9	1883.1	1765.7	1478.1	1362.6	1349.3	1358.8	1582.1	1618.1	1640.8	1665.4
25°	1873.6	1841.4	1690.0	1436.4	1326.7	1311.5	1347.5	1576.4	1597.2	1603.0	1652.2
27.5°	1830.1	1788.4	1610.5	1398.6	1283.1	1277.4	1357.0	1551.9	1567.0	1572.7	1625.7
30°	1777.1	1714.6	1521.6	1358.8	1237.7	1235.8	1358.8	1521.6	1517.8	1533.0	1585.9
32.5°	1722.2	1604.9	1421.2	1309.6	1194.1	1192.3	1345.6	1476.1	1472.3	1493.1	1533.0
35°	1671.1	1519.7	1285.0	1252.9	1139.3	1141.1	1313.4	1423.1	1425.1	1444.0	1468.6
37.5°	1618.1	1445.9	1135.5	1190.4	1086.3	1086.3	1269.9	1374.0	1370.1	1375.9	1409.9
40°	1555.6	1330.4	1003.0	1109.0	1037.1	1031.4	1216.9	1321.0	1307.7	1305.9	1353.1
42.5°	1489.4	1203.6	904.6	1001.1	980.3	972.8	1152.5	1256.6	1232.0	1237.7	1298.2
45°	1417.5	1169.6	828.9	845.9	921.7	915.9	1082.5	1182.8	1165.8	1181.0	1243.4
47.5°	1345.6	1101.4	804.3	702.1	859.2	857.3	1004.9	1110.9	1101.4	1116.6	1182.8
50°	1247.1	1025.8	802.4	601.8	789.2	796.8	912.2	1040.9	1040.9	1054.1	1124.1
52.5°	1120.3	933.0	728.6	545.0	707.8	730.5	830.8	980.3	984.1	997.3	1059.8
55°	1004.9	836.5	675.7	501.5	611.3	660.5	751.3	917.9	925.4	938.7	995.5
57.5°	898.9	696.5	664.3	450.4	522.3	569.7	681.3	857.3	861.1	872.5	927.3
60°	785.4	503.4	609.4	395.6	444.7	480.7	616.9	785.4	798.7	806.2	853.5
62.5°	656.7	365.3	552.6	357.6	406.9	414.5	563.9	717.3	734.3	739.9	768.4
65°	467.5	306.6	469.4	325.5	367.1	369.0	507.2	647.2	662.4	671.8	692.7
67.5°	316.0	249.8	357.6	295.2	336.8	338.7	452.3	565.8	586.7	594.2	607.5
70°	219.6	166.6	264.9	263.1	302.8	306.6	393.7	492.0	511.0	516.7	524.2
72.5°	160.8	134.4	219.6	236.6	266.8	270.6	333.1	408.7	427.7	433.4	437.2
75°	123.0	141.9	177.9	206.3	227.1	229.0	272.6	333.1	346.3	350.1	352.0
77.5°	98.4	132.5	130.5	166.6	185.5	181.6	213.8	257.4	268.7	268.7	268.7
80°	73.8	104.1	98.4	119.2	136.3	132.5	153.3	183.6	187.4	191.1	189.3
82.5°	54.9	66.3	66.3	75.7	90.8	87.1	102.2	119.2	119.2	119.2	123.0
85°	34.1	37.8	30.3	39.7	51.1	49.2	56.8	64.4	66.3	66.3	62.5
87.5°	20.8	17.0	9.5	15.2	22.7	22.7	26.5	28.4	26.5	26.5	26.5
90°	7.7	5.3	3.0	5.3	7.7	8.3	13.0	19.3	22.4	20.0	14.9
92.5°	52.0	31.9	11.8	31.9	52.0	57.0	80.1	111.0	126.3	110.7	79.5
95°	101.8	65.0	28.4	65.0	101.8	111.0	197.1	312.0	369.4	329.7	250.1
97.5°	113.8	81.5	49.0	81.5	113.8	122.0	265.6	457.1	552.8	527.6	477.3
100°	123.8	94.4	64.9	94.4	123.8	131.1	290.4	502.9	609.1	610.9	614.6
102.5°	133.4	106.0	78.5	106.0	133.4	140.3	301.9	517.3	625.0	657.0	721.1
105°	148.0	124.8	101.6	124.8	148.0	153.9	310.3	518.9	623.2	695.0	838.6
107.5°	168.5	146.9	125.2	146.9	168.5	173.9	311.9	495.8	587.8	687.9	888.2
110°	180.2	160.6	141.1	160.6	180.2	185.1	309.5	475.4	558.3	670.2	894.2



TEST NUMBER: P934490

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.1	175.4	156.8	175.4	194.1	198.7	309.6	457.5	531.5	646.1	875.2
115°	214.8	197.6	180.4	197.6	214.8	219.1	312.5	437.0	499.3	609.7	830.4
117.5°	234.9	219.4	203.7	219.4	234.9	238.8	318.3	424.2	477.1	576.7	775.9
120°	246.7	232.0	217.3	232.0	246.7	250.4	323.0	419.8	468.2	559.2	741.3
122.5°	260.2	245.4	230.6	245.4	260.2	264.0	329.8	417.5	461.5	543.4	707.4
125°	278.0	264.4	251.0	264.4	278.0	281.3	338.9	415.7	454.1	523.7	663.0
127.5°	294.8	281.2	267.5	281.2	294.8	298.2	348.1	414.7	447.9	507.7	627.1
130°	305.8	291.1	276.4	291.1	305.8	309.4	354.8	415.2	445.5	498.7	605.2
132.5°	315.0	300.3	285.5	300.3	315.0	318.6	360.2	415.7	443.5	491.2	586.4
135°	325.8	312.5	299.1	312.5	325.8	329.2	366.1	415.3	440.0	479.9	559.6
137.5°	339.4	326.2	313.0	326.2	339.4	342.7	374.9	417.8	439.3	473.0	540.4
140°	348.9	336.7	324.5	336.7	348.9	351.9	380.4	418.3	437.3	466.4	524.7
142.5°	355.8	344.6	333.3	344.6	355.8	358.7	384.9	419.8	437.3	462.9	514.0
145°	366.6	356.8	347.0	356.8	366.6	369.1	390.9	419.8	434.3	455.2	497.1
147.5°	379.7	370.1	360.5	370.1	379.7	382.1	399.5	422.7	434.3	450.8	483.7
150°	386.7	378.1	369.4	378.1	386.7	388.9	404.1	424.2	434.3	448.3	476.1
152.5°	391.6	385.1	378.5	385.1	391.6	393.3	406.9	425.2	434.3	446.2	470.0
155°	401.8	397.0	392.1	397.0	401.8	403.0	413.4	427.4	434.3	443.8	462.7
157.5°	411.6	406.8	402.2	406.8	411.6	412.8	419.9	429.6	434.3	441.7	456.4
160°	416.2	412.6	408.9	412.6	416.2	417.1	422.9	430.5	434.3	440.6	453.2
162.5°	421.3	418.5	415.7	418.5	421.3	421.9	426.0	431.6	434.3	439.7	450.3
165°	428.0	425.5	423.1	425.5	428.0	428.7	430.6	433.1	434.3	438.2	445.7
167.5°	432.2	431.0	429.8	431.0	432.2	432.5	434.1	436.2	437.3	439.8	444.7
170°	436.7	435.5	434.3	435.5	436.7	437.0	437.1	437.2	437.3	439.8	444.7
172.5°	437.2	437.0	436.7	437.0	437.2	437.3	437.3	437.3	437.3	439.2	443.1
175°	440.0	440.0	440.0	440.0	440.0	440.0	439.1	437.9	437.3	438.5	441.0
177.5°	440.0	440.0	440.0	440.0	440.0	440.0	439.3	438.3	437.9	438.8	440.8
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934490

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	1930.3	1924.7	1932.3	1911.4	1932.3	1924.7	1930.3	1943.6	1932.3	1939.8	1947.3
5°	1693.8	1684.3	1654.1	1629.4	1654.1	1684.3	1693.8	1733.5	1752.4	1786.5	1832.0
7.5°	1514.0	1506.4	1498.9	1483.7	1498.9	1506.4	1514.0	1525.3	1544.2	1574.6	1608.6
10°	1474.2	1476.1	1487.5	1485.6	1487.5	1476.1	1474.2	1470.5	1464.8	1470.5	1491.3
12.5°	1576.4	1593.5	1656.0	1652.2	1656.0	1593.5	1576.4	1500.8	1449.7	1440.2	1444.0
15°	1693.8	1699.4	1712.7	1714.6	1712.7	1699.4	1693.8	1663.5	1510.2	1444.0	1423.1
17.5°	1705.2	1707.1	1716.5	1716.5	1716.5	1707.1	1705.2	1691.9	1640.8	1551.9	1434.5
20°	1695.7	1699.4	1718.4	1722.2	1718.4	1699.4	1695.7	1678.6	1650.2	1618.1	1529.1
22.5°	1691.9	1699.4	1714.6	1712.7	1714.6	1699.4	1691.9	1665.4	1640.8	1618.1	1582.1
25°	1673.0	1673.0	1674.9	1676.8	1674.9	1673.0	1673.0	1652.2	1603.0	1597.2	1576.4
27.5°	1633.2	1637.0	1648.3	1646.5	1648.3	1637.0	1633.2	1625.7	1572.7	1567.0	1551.9
30°	1597.2	1593.5	1584.1	1576.4	1584.1	1593.5	1597.2	1585.9	1533.0	1517.8	1521.6
32.5°	1536.7	1527.2	1517.8	1512.1	1517.8	1527.2	1536.7	1533.0	1493.1	1472.3	1476.1
35°	1464.8	1466.7	1464.8	1459.1	1464.8	1466.7	1464.8	1468.6	1444.0	1425.1	1423.1
37.5°	1413.7	1417.5	1415.6	1408.1	1415.6	1417.5	1413.7	1409.9	1375.9	1370.1	1374.0
40°	1360.7	1362.6	1360.7	1355.0	1360.7	1362.6	1360.7	1353.1	1305.9	1307.7	1321.0
42.5°	1309.6	1307.7	1302.0	1298.2	1302.0	1307.7	1309.6	1298.2	1237.7	1232.0	1256.6
45°	1251.0	1252.9	1241.5	1235.8	1241.5	1252.9	1251.0	1243.4	1181.0	1165.8	1182.8
47.5°	1192.3	1192.3	1182.8	1177.1	1182.8	1192.3	1192.3	1182.8	1116.6	1101.4	1110.9
50°	1129.9	1128.0	1114.7	1112.8	1114.7	1128.0	1129.9	1124.1	1054.1	1040.9	1040.9
52.5°	1057.9	1057.9	1059.8	1063.6	1059.8	1057.9	1057.9	1059.8	997.3	984.1	980.3
55°	995.5	997.3	1010.6	1014.4	1010.6	997.3	995.5	995.5	938.7	925.4	917.9
57.5°	931.1	931.1	940.6	940.6	940.6	931.1	931.1	927.3	872.5	861.1	857.3
60°	857.3	861.1	868.7	866.8	868.7	861.1	857.3	853.5	806.2	798.7	785.4
62.5°	779.7	783.5	785.4	781.6	785.4	783.5	779.7	768.4	739.9	734.3	717.3
65°	698.3	702.1	704.0	700.2	704.0	702.1	698.3	692.7	671.8	662.4	647.2
67.5°	615.0	613.2	611.3	618.8	611.3	613.2	615.0	607.5	594.2	586.7	565.8
70°	529.9	529.9	528.0	531.7	528.0	529.9	529.9	524.2	516.7	511.0	492.0
72.5°	439.0	437.2	444.7	439.0	444.7	437.2	439.0	437.2	433.4	427.7	408.7
75°	350.1	353.9	350.1	355.8	350.1	353.9	350.1	352.0	350.1	346.3	333.1
77.5°	266.8	270.6	266.8	266.8	266.8	270.6	266.8	268.7	268.7	268.7	257.4
80°	189.3	187.4	187.4	185.5	187.4	187.4	189.3	189.3	191.1	187.4	183.6
82.5°	121.1	119.2	119.2	123.0	119.2	119.2	121.1	123.0	119.2	119.2	119.2
85°	66.3	68.1	64.4	64.4	64.4	68.1	66.3	62.5	66.3	66.3	64.4
87.5°	24.6	22.7	22.7	22.7	22.7	22.7	24.6	26.5	26.5	26.5	28.4
90°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.4	19.3
92.5°	56.1	53.9	44.9	36.0	44.9	53.9	56.1	79.5	110.7	126.3	111.0
95°	190.4	183.6	156.6	129.6	156.6	183.6	190.4	250.1	329.7	369.4	312.0
97.5°	439.6	426.7	375.3	323.9	375.3	426.7	439.6	477.3	527.6	552.8	457.1
100°	617.4	602.1	540.8	479.5	540.8	602.1	617.4	614.6	610.9	609.1	502.9
102.5°	769.2	756.1	703.5	651.0	703.5	756.1	769.2	721.1	657.0	625.0	517.3
105°	946.3	939.2	911.1	882.8	911.1	939.2	946.3	838.6	695.0	623.2	518.9
107.5°	1038.4	1040.1	1046.9	1053.7	1046.9	1040.1	1038.4	888.2	687.9	587.8	495.8
110°	1062.1	1069.4	1098.7	1128.1	1098.7	1069.4	1062.1	894.2	670.2	558.3	475.4



TEST NUMBER: P934490

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1047.0	1058.2	1103.4	1148.5	1103.4	1058.2	1047.0	875.2	646.1	531.5	457.5
115°	995.9	1011.5	1074.1	1136.7	1074.1	1011.5	995.9	830.4	609.7	499.3	437.0
117.5°	925.3	942.7	1012.1	1081.5	1012.1	942.7	925.3	775.9	576.7	477.1	424.2
120°	877.7	894.6	962.1	1029.6	962.1	894.6	877.7	741.3	559.2	468.2	419.8
122.5°	830.3	846.9	913.5	979.9	913.5	846.9	830.3	707.4	543.4	461.5	417.5
125°	767.3	782.6	843.9	905.2	843.9	782.6	767.3	663.0	523.7	454.1	415.7
127.5°	716.8	729.7	781.5	833.2	781.5	729.7	716.8	627.1	507.7	447.9	414.7
130°	685.0	697.0	744.7	792.5	744.7	697.0	685.0	605.2	498.7	445.5	415.2
132.5°	657.8	668.5	711.3	754.1	711.3	668.5	657.8	586.4	491.2	443.5	415.7
135°	619.4	628.7	665.5	702.4	665.5	628.7	619.4	559.6	479.9	440.0	415.3
137.5°	591.0	598.6	628.9	659.0	628.9	598.6	591.0	540.4	473.0	439.3	417.8
140°	568.3	575.4	603.6	631.8	603.6	575.4	568.3	524.7	466.4	437.3	418.3
142.5°	552.4	558.5	582.7	607.0	582.7	558.5	552.4	514.0	462.9	437.3	419.8
145°	528.5	533.1	551.5	569.8	551.5	533.1	528.5	497.1	455.2	434.3	419.8
147.5°	508.4	512.3	527.4	542.6	527.4	512.3	508.4	483.7	450.8	434.3	422.7
150°	496.9	499.9	512.4	524.7	512.4	499.9	496.9	476.1	448.3	434.3	424.2
152.5°	487.7	490.0	499.4	508.7	499.4	490.0	487.7	470.0	446.2	434.3	425.2
155°	476.8	478.4	484.6	490.7	484.6	478.4	476.8	462.7	443.8	434.3	427.4
157.5°	467.4	468.4	472.8	477.1	472.8	468.4	467.4	456.4	441.7	434.3	429.6
160°	462.7	463.3	465.8	468.2	465.8	463.3	462.7	453.2	440.6	434.3	430.5
162.5°	458.2	458.8	461.2	463.6	461.2	458.8	458.2	450.3	439.7	434.3	431.6
165°	451.4	452.1	454.6	457.1	454.6	452.1	451.4	445.7	438.2	434.3	433.1
167.5°	448.5	448.8	449.8	450.9	449.8	448.8	448.5	444.7	439.8	437.3	436.2
170°	448.5	448.5	448.5	448.5	448.5	448.5	448.5	444.7	439.8	437.3	437.2
172.5°	446.1	445.9	444.9	444.1	444.9	445.9	446.1	443.1	439.2	437.3	437.3
175°	442.8	442.8	442.8	442.8	442.8	442.8	442.8	441.0	438.5	437.3	437.9
177.5°	442.3	442.0	441.0	440.0	441.0	442.0	442.3	440.8	438.8	437.9	438.3
180°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	1975.8	1985.3	1990.9	1998.4	2017.4
5°	1900.1	1936.1	1947.3	1975.8	2009.8
7.5°	1733.5	1843.2	1873.6	1941.7	1994.7
10°	1572.7	1682.4	1735.4	1896.2	1975.8
12.5°	1491.3	1555.6	1591.6	1816.8	1949.3
15°	1440.2	1485.6	1512.1	1710.8	1919.0
17.5°	1400.4	1432.6	1451.5	1606.7	1877.3
20°	1375.9	1391.0	1408.1	1531.1	1830.1
22.5°	1358.8	1349.3	1362.6	1478.1	1765.7
25°	1347.5	1311.5	1326.7	1436.4	1690.0
27.5°	1357.0	1277.4	1283.1	1398.6	1610.5
30°	1358.8	1235.8	1237.7	1358.8	1521.6
32.5°	1345.6	1192.3	1194.1	1309.6	1421.2
35°	1313.4	1141.1	1139.3	1252.9	1285.0
37.5°	1269.9	1086.3	1086.3	1190.4	1135.5
40°	1216.9	1031.4	1037.1	1109.0	1003.0
42.5°	1152.5	972.8	980.3	1001.1	904.6
45°	1082.5	915.9	921.7	845.9	828.9
47.5°	1004.9	857.3	859.2	702.1	804.3
50°	912.2	796.8	789.2	601.8	802.4
52.5°	830.8	730.5	707.8	545.0	728.6
55°	751.3	660.5	611.3	501.5	675.7
57.5°	681.3	569.7	522.3	450.4	664.3
60°	616.9	480.7	444.7	395.6	609.4
62.5°	563.9	414.5	406.9	357.6	552.6
65°	507.2	369.0	367.1	325.5	469.4
67.5°	452.3	338.7	336.8	295.2	357.6
70°	393.7	306.6	302.8	263.1	264.9
72.5°	333.1	270.6	266.8	236.6	219.6
75°	272.6	229.0	227.1	206.3	177.9
77.5°	213.8	181.6	185.5	166.6	130.5
80°	153.3	132.5	136.3	119.2	98.4
82.5°	102.2	87.1	90.8	75.7	66.3
85°	56.8	49.2	51.1	39.7	30.3
87.5°	26.5	22.7	22.7	15.2	9.5
90°	13.0	8.3	7.7	5.3	3.0
92.5°	80.1	57.0	52.0	31.9	11.8
95°	197.1	111.0	101.8	65.0	28.4
97.5°	265.6	122.0	113.8	81.5	49.0
100°	290.4	131.1	123.8	94.4	64.9
102.5°	301.9	140.3	133.4	106.0	78.5
105°	310.3	153.9	148.0	124.8	101.6
107.5°	311.9	173.9	168.5	146.9	125.2
110°	309.5	185.1	180.2	160.6	141.1



TEST NUMBER: P934490

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	309.6	198.7	194.1	175.4	156.8
115°	312.5	219.1	214.8	197.6	180.4
117.5°	318.3	238.8	234.9	219.4	203.7
120°	323.0	250.4	246.7	232.0	217.3
122.5°	329.8	264.0	260.2	245.4	230.6
125°	338.9	281.3	278.0	264.4	251.0
127.5°	348.1	298.2	294.8	281.2	267.5
130°	354.8	309.4	305.8	291.1	276.4
132.5°	360.2	318.6	315.0	300.3	285.5
135°	366.1	329.2	325.8	312.5	299.1
137.5°	374.9	342.7	339.4	326.2	313.0
140°	380.4	351.9	348.9	336.7	324.5
142.5°	384.9	358.7	355.8	344.6	333.3
145°	390.9	369.1	366.6	356.8	347.0
147.5°	399.5	382.1	379.7	370.1	360.5
150°	404.1	388.9	386.7	378.1	369.4
152.5°	406.9	393.3	391.6	385.1	378.5
155°	413.4	403.0	401.8	397.0	392.1
157.5°	419.9	412.8	411.6	406.8	402.2
160°	422.9	417.1	416.2	412.6	408.9
162.5°	426.0	421.9	421.3	418.5	415.7
165°	430.6	428.7	428.0	425.5	423.1
167.5°	434.1	432.5	432.2	431.0	429.8
170°	437.1	437.0	436.7	435.5	434.3
172.5°	437.3	437.3	437.2	437.0	436.7
175°	439.1	440.0	440.0	440.0	440.0
177.5°	439.3	440.0	440.0	440.0	440.0
180°	440.0	440.0	440.0	440.0	440.0



TEST NUMBER: P934490
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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	14.79	15.79	15.61	16.64	17.69	17.61	18.62	18.43	19.46	20.51
	3H	15.27	16.18	16.11	17.03	18.11	18.96	19.87	19.80	20.72	21.80
	4H	15.47	16.33	16.32	17.19	18.27	19.41	20.27	20.27	21.13	22.22
	6H	15.60	16.39	16.46	17.25	18.35	19.71	20.49	20.57	21.36	22.46
	8H	15.60	16.35	16.48	17.24	18.34	19.78	20.53	20.66	21.42	22.52
	12H	15.58	16.30	16.46	17.18	18.30	19.83	20.54	20.70	21.42	22.55
4H	2H	15.83	16.69	16.69	17.55	18.64	18.04	18.89	18.89	19.75	20.84
	3H	16.88	17.59	17.74	18.48	19.58	19.56	20.27	20.42	21.16	22.26
	4H	17.16	17.81	18.04	18.70	19.82	20.09	20.74	20.97	21.63	22.76
	6H	17.29	17.85	18.19	18.77	19.90	20.46	21.02	21.36	21.94	23.07
	8H	17.30	17.82	18.20	18.73	19.88	20.57	21.09	21.47	22.00	23.15
	12H	17.27	17.75	18.19	18.67	19.82	20.63	21.10	21.55	22.03	23.18
8H	4H	17.62	18.15	18.52	19.05	20.20	20.22	20.75	21.12	21.66	22.80
	6H	17.89	18.32	18.82	19.27	20.42	20.67	21.10	21.59	22.05	23.19
	8H	17.93	18.32	18.87	19.26	20.42	20.82	21.20	21.75	22.14	23.31
	12H	17.92	18.26	18.86	19.20	20.41	20.92	21.26	21.86	22.20	23.41
12H	4H	17.64	18.11	18.55	19.03	20.18	20.20	20.67	21.11	21.60	22.75
	6H	17.95	18.34	18.89	19.28	20.44	20.66	21.05	21.60	21.99	23.15
	8H	18.03	18.36	18.96	19.30	20.51	20.83	21.17	21.77	22.10	23.32