

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: P934394

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934394
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

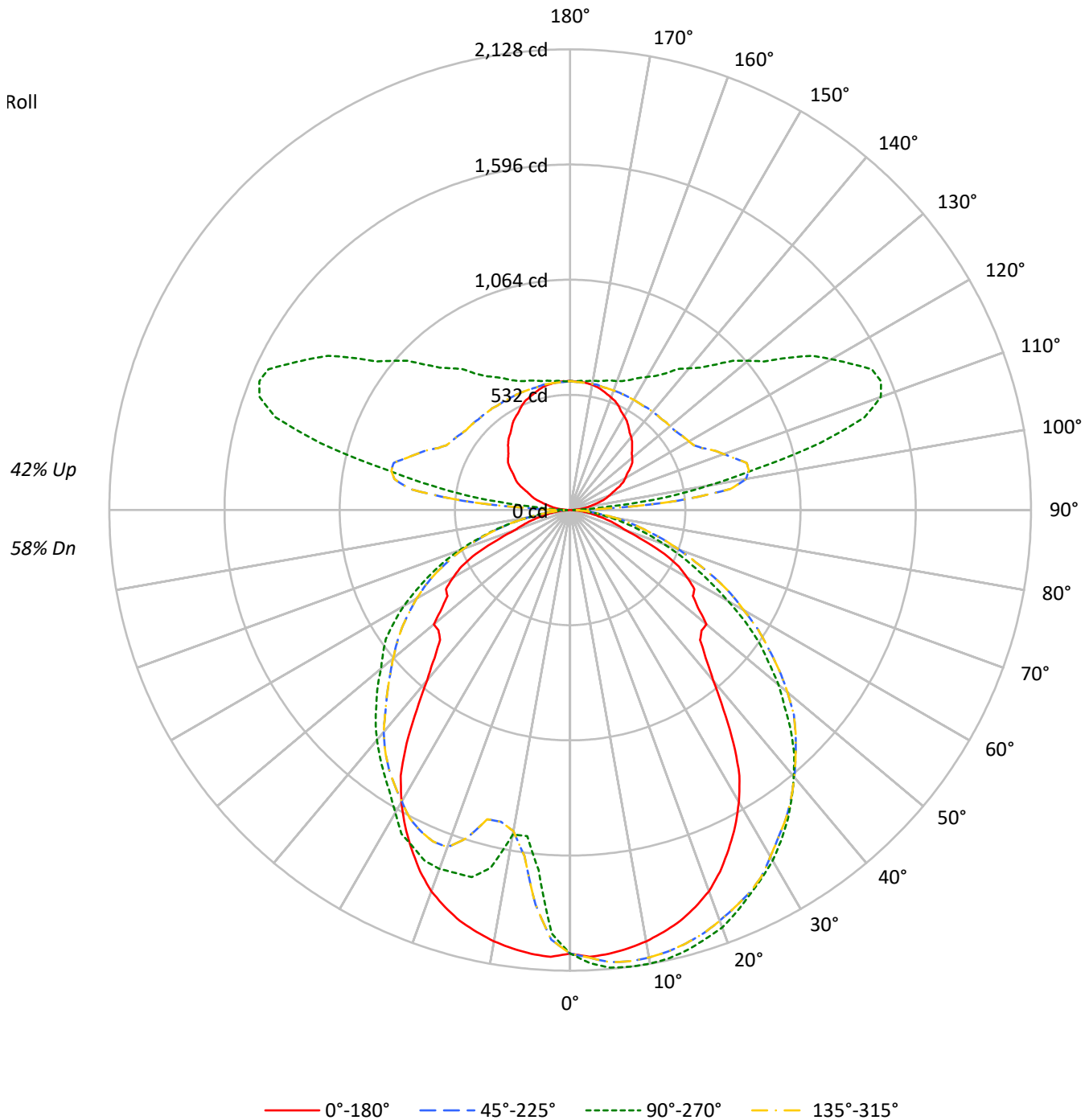
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9171.6 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9504	9504	9504	9504
5°	9575	9593	9575	7543
10°	9511	9450	9511	6756
15°	9407	9245	9407	7720
20°	9210	9003	9210	7736
25°	8808	8649	8808	7572
30°	8288	8355	8288	7212
35°	7388	7984	7388	6817
40°	6156	7546	6156	6518
45°	5501	7035	5501	6174
50°	5844	6424	5844	5829
55°	5499	5767	5499	5630
60°	5668	4897	5668	5156
65°	5138	4049	5138	4526
70°	3558	3227	3558	3794
75°	3121	2385	3121	2856
80°	2515	1577	2515	1717
85°	1444	835	1444	710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8431 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	2.0
10°-20°	525.0	5.7
20°-30°	811.5	8.8
30°-40°	968.8	10.6
40°-50°	974.5	10.6
50°-60°	847.9	9.2
60°-70°	601.2	6.6
70°-80°	318.1	3.5
80°-90°	81.5	0.9
90°-100°	290.1	3.2
100°-110°	762.7	8.3
110°-120°	790.9	8.6
120°-130°	634.4	6.9
130°-140°	497.8	5.4
140°-150°	382.1	4.2
150°-160°	275.1	3.0
160°-170°	168.3	1.8
170°-180°	56.9	0.6
0°-30°	1521.4	16.6
0°-40°	2490.2	27.2
0°-60°	4312.6	47.0
0°-90°	5313.4	57.9
90°-120°	1843.7	20.1
90°-150°	3357.9	36.6
90°-180°	3858.0	42.1
0°-180°	9171.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2048	2048	2048	2048	2048	
5°	2058	2122	2058	1668	2058	195
15°	1965	2103	1965	1756	1965	553
25°	1730	1961	1730	1717	1730	795
35°	1316	1750	1316	1494	1316	814
45°	849	1442	849	1265	849	680
55°	692	1064	692	1039	692	636
65°	481	642	481	717	481	459
75°	182	304	182	364	182	192
85°	31	78	31	66	31	42
90°	4	15	4	15	4	5
95°	38	175	38	175	38	43
105°	137	1194	137	1194	137	146
115°	244	1538	244	1538	244	241
125°	340	1225	340	1225	340	301
135°	405	950	405	950	405	313
145°	469	771	469	771	469	294
155°	530	664	530	664	530	244
165°	572	618	572	618	572	162
175°	595	599	595	599	595	56
180°	595	595	595	595	595	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4
2.5°	2065.8	2065.8	2077.4	2081.3	2081.3	2075.5	2069.7	2075.5	2092.9	2098.8	2096.8
5°	2058.1	2073.6	2094.9	2098.8	2102.6	2100.7	2096.8	2100.7	2120.1	2124.0	2125.9
7.5°	2042.6	2071.6	2098.8	2104.6	2110.4	2104.6	2102.6	2106.5	2125.9	2129.8	2129.8
10°	2023.2	2063.9	2094.9	2098.8	2104.6	2098.8	2098.8	2106.5	2125.9	2129.8	2131.7
12.5°	1996.0	2052.2	2081.3	2085.2	2092.9	2091.0	2089.1	2096.8	2116.2	2120.1	2120.1
15°	1965.0	2030.9	2058.1	2061.9	2075.5	2071.6	2071.6	2079.4	2100.7	2106.5	2104.6
17.5°	1922.4	2003.8	2034.8	2040.6	2050.3	2048.4	2050.3	2058.1	2077.4	2081.3	2083.3
20°	1873.9	1967.0	2003.8	2009.6	2019.3	2019.3	2019.3	2029.0	2048.4	2056.1	2056.1
22.5°	1808.1	1928.2	1967.0	1970.8	1982.5	1982.5	1986.4	1999.9	2017.4	2019.3	2019.3
25°	1730.5	1885.6	1918.5	1930.2	1941.8	1947.6	1953.4	1961.2	1967.0	1965.0	1967.0
27.5°	1649.1	1831.3	1873.9	1881.7	1897.2	1903.0	1910.8	1912.7	1914.6	1920.5	1916.6
30°	1558.1	1755.7	1819.7	1827.4	1852.6	1856.5	1848.8	1852.6	1862.3	1866.2	1870.1
32.5°	1455.3	1643.3	1763.5	1780.9	1804.2	1792.6	1790.6	1796.4	1811.9	1811.9	1815.8
35°	1315.8	1556.1	1711.2	1726.7	1744.1	1730.5	1738.3	1740.2	1749.9	1755.7	1753.8
37.5°	1162.7	1480.5	1656.9	1668.5	1682.1	1664.6	1676.3	1682.1	1689.8	1686.0	1686.0
40°	1027.1	1362.3	1592.9	1600.7	1612.3	1598.8	1610.4	1614.3	1618.1	1614.3	1612.3
42.5°	926.4	1232.5	1525.1	1534.8	1527.0	1536.7	1540.6	1548.4	1542.6	1534.8	1534.8
45°	848.8	1197.6	1451.5	1463.1	1451.5	1467.0	1472.8	1472.8	1455.3	1451.5	1449.5
47.5°	823.6	1127.9	1377.8	1377.8	1372.0	1391.4	1401.1	1387.5	1370.1	1364.3	1364.3
50°	821.7	1050.4	1277.0	1269.3	1296.4	1319.7	1310.0	1296.4	1282.9	1261.5	1261.5
52.5°	746.1	955.4	1147.3	1176.3	1218.9	1232.5	1217.0	1203.4	1180.1	1170.5	1162.7
55°	691.9	856.6	1029.1	1087.2	1131.8	1149.2	1120.2	1106.6	1071.7	1065.9	1062.0
57.5°	680.2	713.2	920.6	994.2	1048.5	1046.5	1029.1	1003.9	974.8	969.0	967.1
60°	624.0	515.5	804.3	891.5	947.7	941.9	926.4	903.1	876.0	872.1	868.2
62.5°	565.9	374.0	672.5	771.3	850.8	848.8	835.3	800.4	781.0	771.3	763.6
65°	480.6	314.0	478.7	641.5	755.8	759.7	730.6	705.4	684.1	672.5	670.5
67.5°	366.3	255.8	323.6	534.9	664.7	660.9	624.0	612.4	585.3	579.5	567.8
70°	271.3	170.5	224.8	434.1	575.6	565.9	536.8	523.3	498.1	484.5	476.7
72.5°	224.8	137.6	164.7	337.2	484.5	472.9	447.7	432.2	410.9	399.2	391.5
75°	182.2	145.4	126.0	250.0	393.4	385.7	362.4	346.9	329.5	314.0	315.9
77.5°	133.7	135.7	100.8	184.1	312.0	300.4	286.8	267.4	259.7	244.2	244.2
80°	100.8	106.6	75.6	126.0	224.8	224.8	213.2	199.6	186.0	178.3	178.3
82.5°	67.8	67.8	56.2	79.5	153.1	147.3	139.5	135.7	127.9	124.0	124.0
85°	31.0	38.8	34.9	48.4	83.3	87.2	87.2	83.3	81.4	77.5	79.5
87.5°	9.7	17.4	21.3	27.1	42.6	44.6	46.5	46.5	46.5	48.4	48.4
90°	4.0	7.2	10.4	11.1	17.5	26.1	30.3	26.9	20.3	15.2	15.2
92.5°	16.0	43.1	70.3	77.1	108.4	150.1	170.9	149.8	107.6	75.9	72.9
95°	38.4	88.1	137.8	150.2	266.7	422.0	499.7	445.9	338.4	257.7	248.5
97.5°	66.3	110.1	154.0	164.9	359.2	618.2	747.8	713.8	645.7	594.8	577.3
100°	87.9	127.6	167.3	177.3	392.9	680.3	824.0	826.6	831.5	835.2	814.4
102.5°	106.3	143.4	180.4	189.7	408.3	699.9	845.6	889.0	975.6	1040.5	1022.8
105°	137.4	168.8	200.3	208.1	419.9	702.1	843.2	940.3	1134.6	1280.2	1270.6
107.5°	169.4	198.6	227.9	235.3	421.9	670.8	795.3	930.7	1201.7	1404.9	1407.2
110°	190.9	217.3	243.9	250.5	418.8	643.1	755.3	906.8	1209.6	1436.7	1446.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	212.1	237.3	262.5	268.8	418.9	619.0	719.0	873.9	1183.9	1416.4	1431.7
115°	244.1	267.3	290.6	296.4	422.8	591.3	675.5	824.8	1123.4	1347.3	1368.4
117.5°	275.6	296.7	317.8	323.2	430.6	573.8	645.5	780.2	1049.7	1251.9	1275.3
120°	294.0	313.9	333.8	338.8	437.0	568.0	633.5	756.6	1002.8	1187.5	1210.3
122.5°	311.9	332.0	352.0	357.1	446.1	564.9	624.3	735.2	957.0	1123.3	1145.7
125°	339.5	357.8	376.1	380.6	458.5	562.4	614.3	708.5	896.9	1038.2	1058.9
127.5°	361.9	380.3	398.7	403.4	470.9	561.0	605.9	686.8	848.6	969.9	987.3
130°	373.8	393.7	413.7	418.6	479.9	561.8	602.7	674.7	818.7	926.7	942.8
132.5°	386.2	406.1	426.1	431.0	487.3	562.4	600.0	664.4	793.3	889.9	904.4
135°	404.7	422.8	440.8	445.4	495.3	561.8	595.2	649.1	757.1	838.0	850.5
137.5°	423.5	441.4	459.3	463.8	507.3	565.3	594.4	640.0	731.3	799.7	809.9
140°	439.0	455.5	472.0	476.2	514.6	565.9	591.6	631.0	709.8	768.9	778.4
142.5°	451.0	466.2	481.5	485.3	520.7	567.9	591.6	626.2	695.5	747.4	755.6
145°	469.4	482.7	496.0	499.3	528.8	568.0	587.6	615.9	672.6	715.0	721.2
147.5°	487.7	500.7	513.7	516.9	540.4	571.9	587.6	609.9	654.4	687.8	692.9
150°	499.7	511.4	523.2	526.1	546.6	573.9	587.6	606.4	644.1	672.3	676.5
152.5°	512.1	521.0	529.8	532.1	550.6	575.3	587.6	603.7	635.8	659.9	663.1
155°	530.4	537.0	543.6	545.3	559.4	578.2	587.6	600.4	625.9	645.1	647.2
157.5°	544.0	550.4	556.8	558.4	568.1	581.1	587.6	597.5	617.3	632.3	633.7
160°	553.2	558.2	563.2	564.4	572.2	582.5	587.6	596.1	613.1	625.9	626.7
162.5°	562.4	566.2	569.9	570.8	576.5	583.9	587.6	594.8	609.2	620.0	620.7
165°	572.4	575.8	579.1	579.9	582.5	585.9	587.6	592.7	603.0	610.8	611.6
167.5°	581.6	583.1	584.8	585.2	587.3	590.1	591.6	595.0	601.7	606.8	607.2
170°	587.6	589.2	590.8	591.2	591.3	591.5	591.6	595.0	601.7	606.8	606.8
172.5°	590.8	591.2	591.5	591.6	591.6	591.6	591.6	594.3	599.6	603.6	603.3
175°	595.2	595.2	595.2	595.2	594.0	592.3	591.6	593.2	596.6	599.1	599.1
177.5°	595.2	595.2	595.2	595.2	594.2	592.9	592.3	593.7	596.3	598.4	598.0
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4
2.5°	2100.7	2094.9	2100.7	2096.8	2098.8	2092.9	2075.5	2069.7	2075.5	2081.3	2081.3
5°	2125.9	2122.0	2125.9	2125.9	2124.0	2120.1	2100.7	2096.8	2100.7	2102.6	2098.8
7.5°	2133.6	2127.8	2133.6	2129.8	2129.8	2125.9	2106.5	2102.6	2104.6	2110.4	2104.6
10°	2133.6	2127.8	2133.6	2131.7	2129.8	2125.9	2106.5	2098.8	2098.8	2104.6	2098.8
12.5°	2124.0	2120.1	2124.0	2120.1	2120.1	2116.2	2096.8	2089.1	2091.0	2092.9	2085.2
15°	2108.4	2102.6	2108.4	2104.6	2106.5	2100.7	2079.4	2071.6	2071.6	2075.5	2061.9
17.5°	2085.2	2077.4	2085.2	2083.3	2081.3	2077.4	2058.1	2050.3	2048.4	2050.3	2040.6
20°	2058.1	2052.2	2058.1	2056.1	2056.1	2048.4	2029.0	2019.3	2019.3	2019.3	2009.6
22.5°	2015.4	2009.6	2015.4	2019.3	2019.3	2017.4	1999.9	1986.4	1982.5	1982.5	1970.8
25°	1967.0	1961.2	1967.0	1967.0	1965.0	1967.0	1961.2	1953.4	1947.6	1941.8	1930.2
27.5°	1920.5	1916.6	1920.5	1916.6	1920.5	1914.6	1912.7	1910.8	1903.0	1897.2	1881.7
30°	1873.9	1870.1	1873.9	1870.1	1866.2	1862.3	1852.6	1848.8	1856.5	1852.6	1827.4
32.5°	1815.8	1811.9	1815.8	1815.8	1811.9	1811.9	1796.4	1790.6	1792.6	1804.2	1780.9
35°	1755.7	1749.9	1755.7	1753.8	1755.7	1749.9	1740.2	1738.3	1730.5	1744.1	1726.7
37.5°	1686.0	1680.1	1686.0	1686.0	1686.0	1689.8	1682.1	1676.3	1664.6	1682.1	1668.5
40°	1614.3	1606.5	1614.3	1612.3	1614.3	1618.1	1614.3	1610.4	1598.8	1612.3	1600.7
42.5°	1532.9	1530.9	1532.9	1534.8	1534.8	1542.6	1548.4	1540.6	1536.7	1527.0	1534.8
45°	1445.7	1441.8	1445.7	1449.5	1451.5	1455.3	1472.8	1472.8	1467.0	1451.5	1463.1
47.5°	1352.6	1342.9	1352.6	1364.3	1364.3	1370.1	1387.5	1401.1	1391.4	1372.0	1377.8
50°	1253.8	1255.7	1253.8	1261.5	1261.5	1282.9	1296.4	1310.0	1319.7	1296.4	1269.3
52.5°	1156.9	1155.0	1156.9	1162.7	1170.5	1180.1	1203.4	1217.0	1232.5	1218.9	1176.3
55°	1060.1	1064.0	1060.1	1062.0	1065.9	1071.7	1106.6	1120.2	1149.2	1131.8	1087.2
57.5°	963.2	957.4	963.2	967.1	969.0	974.8	1003.9	1029.1	1046.5	1048.5	994.2
60°	850.8	843.0	850.8	868.2	872.1	876.0	903.1	926.4	941.9	947.7	891.5
62.5°	751.9	738.4	751.9	763.6	771.3	781.0	800.4	835.3	848.8	850.8	771.3
65°	647.3	641.5	647.3	670.5	672.5	684.1	705.4	730.6	759.7	755.8	641.5
67.5°	552.3	552.3	552.3	567.8	579.5	585.3	612.4	624.0	660.9	664.7	534.9
70°	465.1	463.2	465.1	476.7	484.5	498.1	523.3	536.8	565.9	575.6	434.1
72.5°	381.8	379.8	381.8	391.5	399.2	410.9	432.2	447.7	472.9	484.5	337.2
75°	308.1	304.3	308.1	315.9	314.0	329.5	346.9	362.4	385.7	393.4	250.0
77.5°	236.4	236.4	236.4	244.2	244.2	259.7	267.4	286.8	300.4	312.0	184.1
80°	176.4	174.4	176.4	178.3	178.3	186.0	199.6	213.2	224.8	224.8	126.0
82.5°	124.0	120.2	124.0	124.0	124.0	127.9	135.7	139.5	147.3	153.1	79.5
85°	77.5	77.5	77.5	79.5	77.5	81.4	83.3	87.2	87.2	83.3	48.4
87.5°	50.4	48.4	50.4	48.4	48.4	46.5	46.5	46.5	44.6	42.6	27.1
90°	15.2	15.2	15.2	15.2	15.2	20.3	26.9	30.3	26.1	17.5	11.1
92.5°	60.8	48.7	60.8	72.9	75.9	107.6	149.8	170.9	150.1	108.4	77.1
95°	211.9	175.4	211.9	248.5	257.7	338.4	445.9	499.7	422.0	266.7	150.2
97.5°	507.8	438.2	507.8	577.3	594.8	645.7	713.8	747.8	618.2	359.2	164.9
100°	731.6	648.6	731.6	814.4	835.2	831.5	826.6	824.0	680.3	392.9	177.3
102.5°	951.8	880.7	951.8	1022.8	1040.5	975.6	889.0	845.6	699.9	408.3	189.7
105°	1232.5	1194.3	1232.5	1270.6	1280.2	1134.6	940.3	843.2	702.1	419.9	208.1
107.5°	1416.4	1425.6	1416.4	1407.2	1404.9	1201.7	930.7	795.3	670.8	421.9	235.3
110°	1486.4	1526.3	1486.4	1446.7	1436.7	1209.6	906.8	755.3	643.1	418.8	250.5



TEST NUMBER: P934394

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1492.7	1553.8	1492.7	1431.7	1416.4	1183.9	873.9	719.0	619.0	418.9	268.8
115°	1453.1	1537.8	1453.1	1368.4	1347.3	1123.4	824.8	675.5	591.3	422.8	296.4
117.5°	1369.3	1463.2	1369.3	1275.3	1251.9	1049.7	780.2	645.5	573.8	430.6	323.2
120°	1301.6	1392.8	1301.6	1210.3	1187.5	1002.8	756.6	633.5	568.0	437.0	338.8
122.5°	1235.8	1325.8	1235.8	1145.7	1123.3	957.0	735.2	624.3	564.9	446.1	357.1
125°	1141.8	1224.7	1141.8	1058.9	1038.2	896.9	708.5	614.3	562.4	458.5	380.6
127.5°	1057.3	1127.2	1057.3	987.3	969.9	848.6	686.8	605.9	561.0	470.9	403.4
130°	1007.5	1072.1	1007.5	942.8	926.7	818.7	674.7	602.7	561.8	479.9	418.6
132.5°	962.3	1020.2	962.3	904.4	889.9	793.3	664.4	600.0	562.4	487.3	431.0
135°	900.4	950.3	900.4	850.5	838.0	757.1	649.1	595.2	561.8	495.3	445.4
137.5°	850.8	891.6	850.8	809.9	799.7	731.3	640.0	594.4	565.3	507.3	463.8
140°	816.6	854.8	816.6	778.4	768.9	709.8	631.0	591.6	565.9	514.6	476.2
142.5°	788.4	821.2	788.4	755.6	747.4	695.5	626.2	591.6	567.9	520.7	485.3
145°	746.1	770.9	746.1	721.2	715.0	672.6	615.9	587.6	568.0	528.8	499.3
147.5°	713.6	734.2	713.6	692.9	687.8	654.4	609.9	587.6	571.9	540.4	516.9
150°	693.1	709.8	693.1	676.5	672.3	644.1	606.4	587.6	573.9	546.6	526.1
152.5°	675.7	688.3	675.7	663.1	659.9	635.8	603.7	587.6	575.3	550.6	532.1
155°	655.5	663.9	655.5	647.2	645.1	625.9	600.4	587.6	578.2	559.4	545.3
157.5°	639.6	645.5	639.6	633.7	632.3	617.3	597.5	587.6	581.1	568.1	558.4
160°	630.1	633.5	630.1	626.7	625.9	613.1	596.1	587.6	582.5	572.2	564.4
162.5°	623.9	627.1	623.9	620.7	620.0	609.2	594.8	587.6	583.9	576.5	570.8
165°	614.9	618.3	614.9	611.6	610.8	603.0	592.7	587.6	585.9	582.5	579.9
167.5°	608.5	610.0	608.5	607.2	606.8	601.7	595.0	591.6	590.1	587.3	585.2
170°	606.8	606.8	606.8	606.8	606.8	601.7	595.0	591.6	591.5	591.3	591.2
172.5°	602.0	600.8	602.0	603.3	603.6	599.6	594.3	591.6	591.6	591.6	591.6
175°	599.1	599.1	599.1	599.1	599.1	596.6	593.2	591.6	592.3	594.0	595.2
177.5°	596.6	595.2	596.6	598.0	598.4	596.3	593.7	592.3	592.9	594.2	595.2
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2



TEST NUMBER: P934394

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4
2.5°	2077.4	2065.8	2065.8	2046.4	2038.7	2032.9	2023.2	1994.1	1986.4	1978.6	1990.2
5°	2094.9	2073.6	2058.1	2023.2	1994.1	1982.5	1945.7	1875.9	1829.4	1794.5	1775.1
7.5°	2098.8	2071.6	2042.6	1988.3	1918.5	1887.5	1775.1	1647.2	1612.3	1581.3	1561.9
10°	2094.9	2063.9	2023.2	1941.8	1777.0	1722.8	1610.4	1527.0	1505.7	1499.9	1505.7
12.5°	2081.3	2052.2	1996.0	1860.4	1629.8	1592.9	1527.0	1478.6	1474.7	1484.4	1536.7
15°	2058.1	2030.9	1965.0	1751.9	1548.4	1521.2	1474.7	1457.3	1478.6	1546.4	1703.4
17.5°	2034.8	2003.8	1922.4	1645.3	1486.3	1467.0	1434.0	1468.9	1589.1	1680.1	1732.5
20°	2003.8	1967.0	1873.9	1567.7	1441.8	1424.3	1408.8	1565.8	1656.9	1689.8	1718.9
22.5°	1967.0	1928.2	1808.1	1513.5	1395.3	1381.7	1391.4	1620.1	1656.9	1680.1	1705.3
25°	1918.5	1885.6	1730.5	1470.8	1358.4	1342.9	1379.8	1614.3	1635.6	1641.4	1691.8
27.5°	1873.9	1831.3	1649.1	1432.1	1313.9	1308.1	1389.4	1589.1	1604.6	1610.4	1664.6
30°	1819.7	1755.7	1558.1	1391.4	1267.4	1265.4	1391.4	1558.1	1554.2	1569.7	1623.9
32.5°	1763.5	1643.3	1455.3	1341.0	1222.8	1220.8	1377.8	1511.5	1507.7	1529.0	1569.7
35°	1711.2	1556.1	1315.8	1282.9	1166.6	1168.5	1344.9	1457.3	1459.2	1478.6	1503.8
37.5°	1656.9	1480.5	1162.7	1218.9	1112.4	1112.4	1300.3	1406.9	1403.0	1408.8	1443.7
40°	1592.9	1362.3	1027.1	1135.7	1062.0	1056.2	1246.0	1352.6	1339.1	1337.1	1385.6
42.5°	1525.1	1232.5	926.4	1025.2	1003.9	996.1	1180.1	1286.7	1261.5	1267.4	1329.4
45°	1451.5	1197.6	848.8	866.3	943.8	938.0	1108.5	1211.2	1193.7	1209.2	1273.2
47.5°	1377.8	1127.9	823.6	719.0	879.9	877.9	1029.1	1137.6	1127.9	1143.4	1211.2
50°	1277.0	1050.4	821.7	616.3	808.1	815.9	934.1	1065.9	1065.9	1079.5	1151.2
52.5°	1147.3	955.4	746.1	558.1	724.8	748.1	850.8	1003.9	1007.8	1021.3	1085.3
55°	1029.1	856.6	691.9	513.6	626.0	676.4	769.4	939.9	947.7	961.2	1019.4
57.5°	920.6	713.2	680.2	461.2	534.9	583.3	697.7	877.9	881.8	893.4	949.6
60°	804.3	515.5	624.0	405.0	455.4	492.3	631.8	804.3	817.8	825.6	874.0
62.5°	672.5	374.0	565.9	366.3	416.7	424.4	577.5	734.5	751.9	757.8	786.8
65°	478.7	314.0	480.6	333.3	376.0	377.9	519.4	662.8	678.3	688.0	709.3
67.5°	323.6	255.8	366.3	302.3	345.0	346.9	463.2	579.5	600.8	608.5	622.1
70°	224.8	170.5	271.3	269.4	310.1	314.0	403.1	503.9	523.3	529.1	536.8
72.5°	164.7	137.6	224.8	242.2	273.3	277.1	341.1	418.6	438.0	443.8	447.7
75°	126.0	145.4	182.2	211.2	232.6	234.5	279.1	341.1	354.7	358.5	360.5
77.5°	100.8	135.7	133.7	170.5	189.9	186.0	219.0	263.6	275.2	275.2	275.2
80°	75.6	106.6	100.8	122.1	139.5	135.7	157.0	188.0	191.9	195.7	193.8
82.5°	56.2	67.8	67.8	77.5	93.0	89.1	104.7	122.1	122.1	122.1	126.0
85°	34.9	38.8	31.0	40.7	52.3	50.4	58.1	65.9	67.8	67.8	64.0
87.5°	21.3	17.4	9.7	15.5	23.3	23.3	27.1	29.1	27.1	27.1	27.1
90°	10.4	7.2	4.0	7.2	10.4	11.1	17.5	26.1	30.3	26.9	20.3
92.5°	70.3	43.1	16.0	43.1	70.3	77.1	108.4	150.1	170.9	149.8	107.6
95°	137.8	88.1	38.4	88.1	137.8	150.2	266.7	422.0	499.7	445.9	338.4
97.5°	154.0	110.1	66.3	110.1	154.0	164.9	359.2	618.2	747.8	713.8	645.7
100°	167.3	127.6	87.9	127.6	167.3	177.3	392.9	680.3	824.0	826.6	831.5
102.5°	180.4	143.4	106.3	143.4	180.4	189.7	408.3	699.9	845.6	889.0	975.6
105°	200.3	168.8	137.4	168.8	200.3	208.1	419.9	702.1	843.2	940.3	1134.6
107.5°	227.9	198.6	169.4	198.6	227.9	235.3	421.9	670.8	795.3	930.7	1201.7
110°	243.9	217.3	190.9	217.3	243.9	250.5	418.8	643.1	755.3	906.8	1209.6



TEST NUMBER: P934394

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	262.5	237.3	212.1	237.3	262.5	268.8	418.9	619.0	719.0	873.9	1183.9
115°	290.6	267.3	244.1	267.3	290.6	296.4	422.8	591.3	675.5	824.8	1123.4
117.5°	317.8	296.7	275.6	296.7	317.8	323.2	430.6	573.8	645.5	780.2	1049.7
120°	333.8	313.9	294.0	313.9	333.8	338.8	437.0	568.0	633.5	756.6	1002.8
122.5°	352.0	332.0	311.9	332.0	352.0	357.1	446.1	564.9	624.3	735.2	957.0
125°	376.1	357.8	339.5	357.8	376.1	380.6	458.5	562.4	614.3	708.5	896.9
127.5°	398.7	380.3	361.9	380.3	398.7	403.4	470.9	561.0	605.9	686.8	848.6
130°	413.7	393.7	373.8	393.7	413.7	418.6	479.9	561.8	602.7	674.7	818.7
132.5°	426.1	406.1	386.2	406.1	426.1	431.0	487.3	562.4	600.0	664.4	793.3
135°	440.8	422.8	404.7	422.8	440.8	445.4	495.3	561.8	595.2	649.1	757.1
137.5°	459.3	441.4	423.5	441.4	459.3	463.8	507.3	565.3	594.4	640.0	731.3
140°	472.0	455.5	439.0	455.5	472.0	476.2	514.6	565.9	591.6	631.0	709.8
142.5°	481.5	466.2	451.0	466.2	481.5	485.3	520.7	567.9	591.6	626.2	695.5
145°	496.0	482.7	469.4	482.7	496.0	499.3	528.8	568.0	587.6	615.9	672.6
147.5°	513.7	500.7	487.7	500.7	513.7	516.9	540.4	571.9	587.6	609.9	654.4
150°	523.2	511.4	499.7	511.4	523.2	526.1	546.6	573.9	587.6	606.4	644.1
152.5°	529.8	521.0	512.1	521.0	529.8	532.1	550.6	575.3	587.6	603.7	635.8
155°	543.6	537.0	530.4	537.0	543.6	545.3	559.4	578.2	587.6	600.4	625.9
157.5°	556.8	550.4	544.0	550.4	556.8	558.4	568.1	581.1	587.6	597.5	617.3
160°	563.2	558.2	553.2	558.2	563.2	564.4	572.2	582.5	587.6	596.1	613.1
162.5°	569.9	566.2	562.4	566.2	569.9	570.8	576.5	583.9	587.6	594.8	609.2
165°	579.1	575.8	572.4	575.8	579.1	579.9	582.5	585.9	587.6	592.7	603.0
167.5°	584.8	583.1	581.6	583.1	584.8	585.2	587.3	590.1	591.6	595.0	601.7
170°	590.8	589.2	587.6	589.2	590.8	591.2	591.3	591.5	591.6	595.0	601.7
172.5°	591.5	591.2	590.8	591.2	591.5	591.6	591.6	591.6	591.6	594.3	599.6
175°	595.2	595.2	595.2	595.2	595.2	595.2	594.0	592.3	591.6	593.2	596.6
177.5°	595.2	595.2	595.2	595.2	595.2	595.2	594.2	592.9	592.3	593.7	596.3
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2



TEST NUMBER: P934394

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4
2.5°	1976.7	1970.8	1978.6	1957.3	1978.6	1970.8	1976.7	1990.2	1978.6	1986.4	1994.1
5°	1734.4	1724.7	1693.7	1668.5	1693.7	1724.7	1734.4	1775.1	1794.5	1829.4	1875.9
7.5°	1550.3	1542.6	1534.8	1519.3	1534.8	1542.6	1550.3	1561.9	1581.3	1612.3	1647.2
10°	1509.6	1511.5	1523.2	1521.2	1523.2	1511.5	1509.6	1505.7	1499.9	1505.7	1527.0
12.5°	1614.3	1631.7	1695.7	1691.8	1695.7	1631.7	1614.3	1536.7	1484.4	1474.7	1478.6
15°	1734.4	1740.2	1753.8	1755.7	1753.8	1740.2	1734.4	1703.4	1546.4	1478.6	1457.3
17.5°	1746.0	1748.0	1757.7	1757.7	1757.7	1748.0	1746.0	1732.5	1680.1	1589.1	1468.9
20°	1736.4	1740.2	1759.6	1763.5	1759.6	1740.2	1736.4	1718.9	1689.8	1656.9	1565.8
22.5°	1732.5	1740.2	1755.7	1753.8	1755.7	1740.2	1732.5	1705.3	1680.1	1656.9	1620.1
25°	1713.1	1713.1	1715.0	1717.0	1715.0	1713.1	1713.1	1691.8	1641.4	1635.6	1614.3
27.5°	1672.4	1676.3	1687.9	1686.0	1687.9	1676.3	1672.4	1664.6	1610.4	1604.6	1589.1
30°	1635.6	1631.7	1622.0	1614.3	1622.0	1631.7	1635.6	1623.9	1569.7	1554.2	1558.1
32.5°	1573.6	1563.9	1554.2	1548.4	1554.2	1563.9	1573.6	1569.7	1529.0	1507.7	1511.5
35°	1499.9	1501.9	1499.9	1494.1	1499.9	1501.9	1499.9	1503.8	1478.6	1459.2	1457.3
37.5°	1447.6	1451.5	1449.5	1441.8	1449.5	1451.5	1447.6	1443.7	1408.8	1403.0	1406.9
40°	1393.3	1395.3	1393.3	1387.5	1393.3	1395.3	1393.3	1385.6	1337.1	1339.1	1352.6
42.5°	1341.0	1339.1	1333.2	1329.4	1333.2	1339.1	1341.0	1329.4	1267.4	1261.5	1286.7
45°	1280.9	1282.9	1271.2	1265.4	1271.2	1282.9	1280.9	1273.2	1209.2	1193.7	1211.2
47.5°	1220.8	1220.8	1211.2	1205.3	1211.2	1220.8	1220.8	1211.2	1143.4	1127.9	1137.6
50°	1156.9	1155.0	1141.5	1139.5	1141.5	1155.0	1156.9	1151.2	1079.5	1065.9	1065.9
52.5°	1083.3	1083.3	1085.3	1089.2	1085.3	1083.3	1083.3	1085.3	1021.3	1007.8	1003.9
55°	1019.4	1021.3	1034.9	1038.8	1034.9	1021.3	1019.4	1019.4	961.2	947.7	939.9
57.5°	953.5	953.5	963.2	963.2	963.2	953.5	953.5	949.6	893.4	881.8	877.9
60°	877.9	881.8	889.5	887.6	889.5	881.8	877.9	874.0	825.6	817.8	804.3
62.5°	798.5	802.3	804.3	800.4	804.3	802.3	798.5	786.8	757.8	751.9	734.5
65°	715.1	719.0	720.9	717.1	720.9	719.0	715.1	709.3	688.0	678.3	662.8
67.5°	629.8	627.9	626.0	633.7	626.0	627.9	629.8	622.1	608.5	600.8	579.5
70°	542.6	542.6	540.7	544.6	540.7	542.6	542.6	536.8	529.1	523.3	503.9
72.5°	449.6	447.7	455.4	449.6	455.4	447.7	449.6	447.7	443.8	438.0	418.6
75°	358.5	362.4	358.5	364.3	358.5	362.4	358.5	360.5	358.5	354.7	341.1
77.5°	273.3	277.1	273.3	273.3	273.3	277.1	273.3	275.2	275.2	275.2	263.6
80°	193.8	191.9	191.9	189.9	191.9	191.9	193.8	193.8	195.7	191.9	188.0
82.5°	124.0	122.1	122.1	126.0	122.1	122.1	124.0	126.0	122.1	122.1	122.1
85°	67.8	69.8	65.9	65.9	65.9	69.8	67.8	64.0	67.8	67.8	65.9
87.5°	25.2	23.3	23.3	23.3	23.3	23.3	25.2	27.1	27.1	27.1	29.1
90°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	20.3	26.9	30.3	26.1
92.5°	75.9	72.9	60.8	48.7	60.8	72.9	75.9	107.6	149.8	170.9	150.1
95°	257.7	248.5	211.9	175.4	211.9	248.5	257.7	338.4	445.9	499.7	422.0
97.5°	594.8	577.3	507.8	438.2	507.8	577.3	594.8	645.7	713.8	747.8	618.2
100°	835.2	814.4	731.6	648.6	731.6	814.4	835.2	831.5	826.6	824.0	680.3
102.5°	1040.5	1022.8	951.8	880.7	951.8	1022.8	1040.5	975.6	889.0	845.6	699.9
105°	1280.2	1270.6	1232.5	1194.3	1232.5	1270.6	1280.2	1134.6	940.3	843.2	702.1
107.5°	1404.9	1407.2	1416.4	1425.6	1416.4	1407.2	1404.9	1201.7	930.7	795.3	670.8
110°	1436.7	1446.7	1486.4	1526.3	1486.4	1446.7	1436.7	1209.6	906.8	755.3	643.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1416.4	1431.7	1492.7	1553.8	1492.7	1431.7	1416.4	1183.9	873.9	719.0	619.0
115°	1347.3	1368.4	1453.1	1537.8	1453.1	1368.4	1347.3	1123.4	824.8	675.5	591.3
117.5°	1251.9	1275.3	1369.3	1463.2	1369.3	1275.3	1251.9	1049.7	780.2	645.5	573.8
120°	1187.5	1210.3	1301.6	1392.8	1301.6	1210.3	1187.5	1002.8	756.6	633.5	568.0
122.5°	1123.3	1145.7	1235.8	1325.8	1235.8	1145.7	1123.3	957.0	735.2	624.3	564.9
125°	1038.2	1058.9	1141.8	1224.7	1141.8	1058.9	1038.2	896.9	708.5	614.3	562.4
127.5°	969.9	987.3	1057.3	1127.2	1057.3	987.3	969.9	848.6	686.8	605.9	561.0
130°	926.7	942.8	1007.5	1072.1	1007.5	942.8	926.7	818.7	674.7	602.7	561.8
132.5°	889.9	904.4	962.3	1020.2	962.3	904.4	889.9	793.3	664.4	600.0	562.4
135°	838.0	850.5	900.4	950.3	900.4	850.5	838.0	757.1	649.1	595.2	561.8
137.5°	799.7	809.9	850.8	891.6	850.8	809.9	799.7	731.3	640.0	594.4	565.3
140°	768.9	778.4	816.6	854.8	816.6	778.4	768.9	709.8	631.0	591.6	565.9
142.5°	747.4	755.6	788.4	821.2	788.4	755.6	747.4	695.5	626.2	591.6	567.9
145°	715.0	721.2	746.1	770.9	746.1	721.2	715.0	672.6	615.9	587.6	568.0
147.5°	687.8	692.9	713.6	734.2	713.6	692.9	687.8	654.4	609.9	587.6	571.9
150°	672.3	676.5	693.1	709.8	693.1	676.5	672.3	644.1	606.4	587.6	573.9
152.5°	659.9	663.1	675.7	688.3	675.7	663.1	659.9	635.8	603.7	587.6	575.3
155°	645.1	647.2	655.5	663.9	655.5	647.2	645.1	625.9	600.4	587.6	578.2
157.5°	632.3	633.7	639.6	645.5	639.6	633.7	632.3	617.3	597.5	587.6	581.1
160°	625.9	626.7	630.1	633.5	630.1	626.7	625.9	613.1	596.1	587.6	582.5
162.5°	620.0	620.7	623.9	627.1	623.9	620.7	620.0	609.2	594.8	587.6	583.9
165°	610.8	611.6	614.9	618.3	614.9	611.6	610.8	603.0	592.7	587.6	585.9
167.5°	606.8	607.2	608.5	610.0	608.5	607.2	606.8	601.7	595.0	591.6	590.1
170°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	601.7	595.0	591.6	591.5
172.5°	603.6	603.3	602.0	600.8	602.0	603.3	603.6	599.6	594.3	591.6	591.6
175°	599.1	599.1	599.1	599.1	599.1	599.1	599.1	596.6	593.2	591.6	592.3
177.5°	598.4	598.0	596.6	595.2	596.6	598.0	598.4	596.3	593.7	592.3	592.9
180°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2048.4	2048.4	2048.4	2048.4	2048.4
2.5°	2023.2	2032.9	2038.7	2046.4	2065.8
5°	1945.7	1982.5	1994.1	2023.2	2058.1
7.5°	1775.1	1887.5	1918.5	1988.3	2042.6
10°	1610.4	1722.8	1777.0	1941.8	2023.2
12.5°	1527.0	1592.9	1629.8	1860.4	1996.0
15°	1474.7	1521.2	1548.4	1751.9	1965.0
17.5°	1434.0	1467.0	1486.3	1645.3	1922.4
20°	1408.8	1424.3	1441.8	1567.7	1873.9
22.5°	1391.4	1381.7	1395.3	1513.5	1808.1
25°	1379.8	1342.9	1358.4	1470.8	1730.5
27.5°	1389.4	1308.1	1313.9	1432.1	1649.1
30°	1391.4	1265.4	1267.4	1391.4	1558.1
32.5°	1377.8	1220.8	1222.8	1341.0	1455.3
35°	1344.9	1168.5	1166.6	1282.9	1315.8
37.5°	1300.3	1112.4	1112.4	1218.9	1162.7
40°	1246.0	1056.2	1062.0	1135.7	1027.1
42.5°	1180.1	996.1	1003.9	1025.2	926.4
45°	1108.5	938.0	943.8	866.3	848.8
47.5°	1029.1	877.9	879.9	719.0	823.6
50°	934.1	815.9	808.1	616.3	821.7
52.5°	850.8	748.1	724.8	558.1	746.1
55°	769.4	676.4	626.0	513.6	691.9
57.5°	697.7	583.3	534.9	461.2	680.2
60°	631.8	492.3	455.4	405.0	624.0
62.5°	577.5	424.4	416.7	366.3	565.9
65°	519.4	377.9	376.0	333.3	480.6
67.5°	463.2	346.9	345.0	302.3	366.3
70°	403.1	314.0	310.1	269.4	271.3
72.5°	341.1	277.1	273.3	242.2	224.8
75°	279.1	234.5	232.6	211.2	182.2
77.5°	219.0	186.0	189.9	170.5	133.7
80°	157.0	135.7	139.5	122.1	100.8
82.5°	104.7	89.1	93.0	77.5	67.8
85°	58.1	50.4	52.3	40.7	31.0
87.5°	27.1	23.3	23.3	15.5	9.7
90°	17.5	11.1	10.4	7.2	4.0
92.5°	108.4	77.1	70.3	43.1	16.0
95°	266.7	150.2	137.8	88.1	38.4
97.5°	359.2	164.9	154.0	110.1	66.3
100°	392.9	177.3	167.3	127.6	87.9
102.5°	408.3	189.7	180.4	143.4	106.3
105°	419.9	208.1	200.3	168.8	137.4
107.5°	421.9	235.3	227.9	198.6	169.4
110°	418.8	250.5	243.9	217.3	190.9



TEST NUMBER: P934394

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	418.9	268.8	262.5	237.3	212.1
115°	422.8	296.4	290.6	267.3	244.1
117.5°	430.6	323.2	317.8	296.7	275.6
120°	437.0	338.8	333.8	313.9	294.0
122.5°	446.1	357.1	352.0	332.0	311.9
125°	458.5	380.6	376.1	357.8	339.5
127.5°	470.9	403.4	398.7	380.3	361.9
130°	479.9	418.6	413.7	393.7	373.8
132.5°	487.3	431.0	426.1	406.1	386.2
135°	495.3	445.4	440.8	422.8	404.7
137.5°	507.3	463.8	459.3	441.4	423.5
140°	514.6	476.2	472.0	455.5	439.0
142.5°	520.7	485.3	481.5	466.2	451.0
145°	528.8	499.3	496.0	482.7	469.4
147.5°	540.4	516.9	513.7	500.7	487.7
150°	546.6	526.1	523.2	511.4	499.7
152.5°	550.6	532.1	529.8	521.0	512.1
155°	559.4	545.3	543.6	537.0	530.4
157.5°	568.1	558.4	556.8	550.4	544.0
160°	572.2	564.4	563.2	558.2	553.2
162.5°	576.5	570.8	569.9	566.2	562.4
165°	582.5	579.9	579.1	575.8	572.4
167.5°	587.3	585.2	584.8	583.1	581.6
170°	591.3	591.2	590.8	589.2	587.6
172.5°	591.6	591.6	591.5	591.2	590.8
175°	594.0	595.2	595.2	595.2	595.2
177.5°	594.2	595.2	595.2	595.2	595.2
180°	595.2	595.2	595.2	595.2	595.2



TEST NUMBER: P934394
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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	13.33	14.27	14.22	15.18	16.33	16.17	17.11	17.06	18.01	19.17
	3H	13.82	14.66	14.71	15.57	16.75	17.52	18.36	18.42	19.28	20.46
	4H	14.01	14.80	14.92	15.73	16.91	17.97	18.77	18.89	19.69	20.88
	6H	14.13	14.87	15.06	15.79	16.99	18.26	19.00	19.19	19.92	21.13
	8H	14.14	14.83	15.07	15.78	16.98	18.34	19.04	19.27	19.98	21.18
	12H	14.11	14.77	15.05	15.71	16.94	18.38	19.05	19.32	19.99	21.21
4H	2H	14.38	15.17	15.30	16.09	17.28	16.59	17.38	17.51	18.30	19.49
	3H	15.41	16.07	16.34	17.02	18.23	18.10	18.77	19.03	19.72	20.92
	4H	15.69	16.29	16.63	17.24	18.47	18.64	19.24	19.58	20.19	21.42
	6H	15.82	16.34	16.77	17.31	18.54	19.01	19.53	19.96	20.50	21.73
	8H	15.83	16.31	16.78	17.28	18.52	19.12	19.60	20.07	20.57	21.81
	12H	15.80	16.24	16.77	17.22	18.47	19.18	19.62	20.15	20.60	21.85
8H	4H	16.15	16.64	17.11	17.60	18.84	18.77	19.25	19.72	20.22	21.46
	6H	16.42	16.82	17.40	17.82	19.06	19.21	19.61	20.19	20.62	21.86
	8H	16.46	16.81	17.45	17.81	19.07	19.36	19.72	20.35	20.71	21.97
	12H	16.45	16.76	17.44	17.75	19.05	19.47	19.78	20.46	20.77	22.07
12H	4H	16.16	16.60	17.14	17.58	18.83	18.74	19.17	19.71	20.16	21.40
	6H	16.48	16.83	17.47	17.83	19.09	19.21	19.56	20.20	20.56	21.82
	8H	16.55	16.86	17.54	17.85	19.16	19.37	19.69	20.37	20.67	21.98