

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: P933994

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933994
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

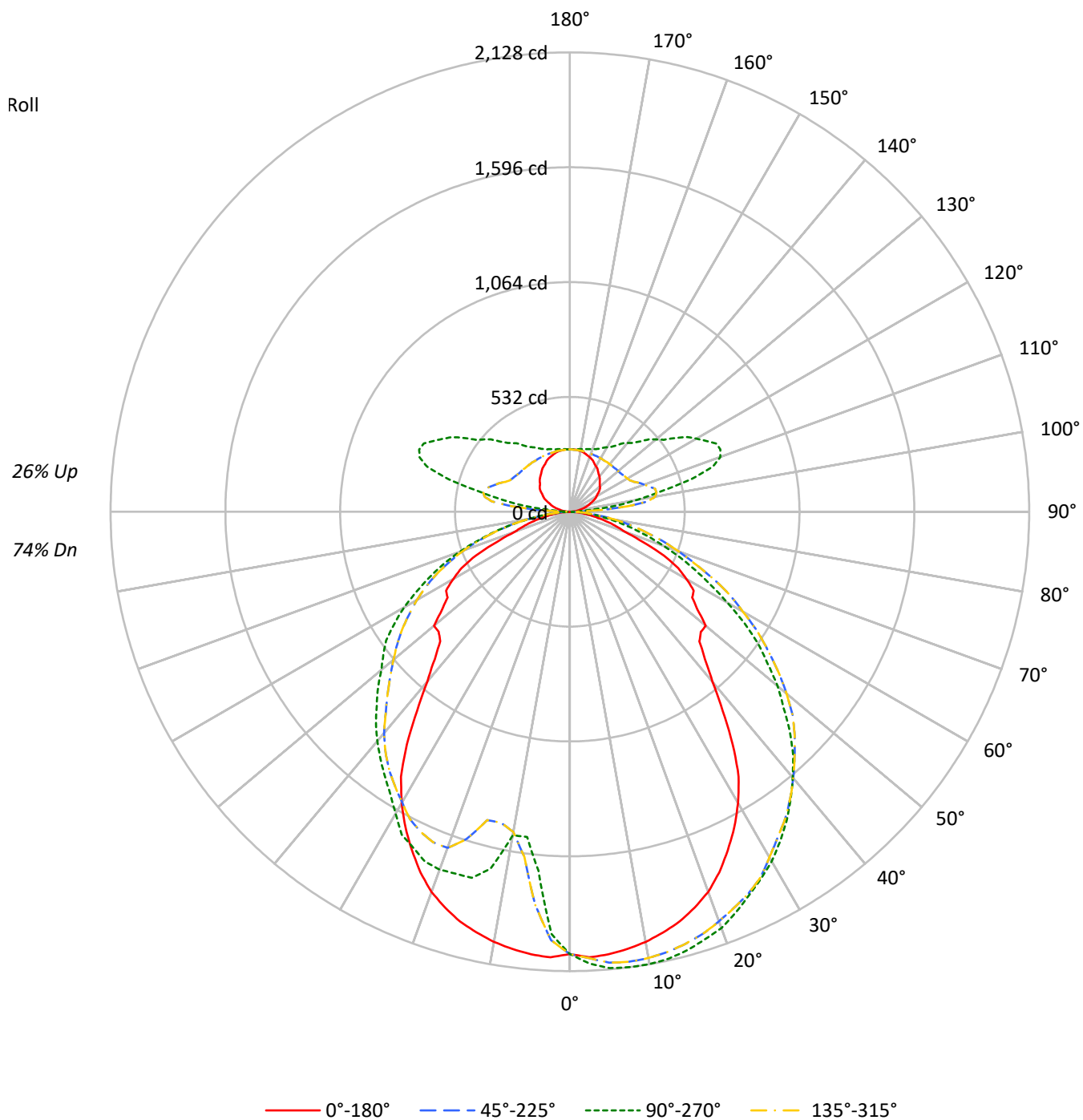
Lumens per Lamp: N/A
Luminaire Lumens: 7187.1 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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

TEST NUMBER: P933994

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-8-3500K

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74		
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62		
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52		
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44		
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38		
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33		
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29		
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26		
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23		
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21		
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19		

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	2.6
10°-20°	525.0	7.3
20°-30°	811.5	11.3
30°-40°	968.8	13.5
40°-50°	974.5	13.6
50°-60°	847.9	11.8
60°-70°	601.2	8.4
70°-80°	318.1	4.4
80°-90°	80.3	1.1
90°-100°	141.0	2.0
100°-110°	370.6	5.2
110°-120°	384.3	5.3
120°-130°	308.3	4.3
130°-140°	241.9	3.4
140°-150°	185.7	2.6
150°-160°	133.7	1.9
160°-170°	81.8	1.1
170°-180°	27.6	0.4
0°-30°	1521.4	21.2
0°-40°	2490.2	34.6
0°-60°	4312.6	60.0
0°-90°	5312.2	73.9
90°-120°	895.9	12.5
90°-150°	1631.8	22.7
90°-180°	1875.0	26.1
0°-180°	7187.1	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°	2	7	2	7	2	3
95°	19	85	19	85	19	21
105°	67	580	67	580	67	71
115°	119	747	119	747	119	117
125°	165	595	165	595	165	146
135°	197	462	197	462	197	152
145°	228	375	228	375	228	143
155°	258	323	258	323	258	118
165°	278	300	278	300	278	79
175°	289	291	289	291	289	27
180°	289	289	289	289	289	

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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°	1.9	3.5	5.0	5.4	8.5	12.7	14.7	13.1	9.8	7.4	7.4
92.5°	7.8	20.9	34.2	37.5	52.7	73.0	83.0	72.8	52.3	36.9	35.5
95°	18.6	42.7	67.0	73.0	129.6	205.0	242.8	216.7	164.4	125.2	120.7
97.5°	32.3	53.6	74.8	80.1	174.5	300.4	363.4	346.9	313.9	289.1	280.6
100°	42.7	62.0	81.3	86.1	190.9	330.5	400.4	401.7	404.1	405.9	395.8
102.5°	51.6	69.7	87.7	92.2	198.5	340.1	411.0	432.0	474.0	505.6	497.0
105°	66.8	82.1	97.4	101.2	204.1	341.2	409.8	457.0	551.4	622.1	617.4
107.5°	82.3	96.5	110.8	114.3	205.0	326.0	386.4	452.2	583.9	682.7	683.8
110°	92.8	105.6	118.5	121.7	203.5	312.5	367.1	440.6	587.8	698.2	703.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	103.1	115.3	127.5	130.6	203.6	300.8	349.4	424.7	575.3	688.3	695.7
115°	118.6	129.8	141.2	144.0	205.4	287.3	328.2	400.8	545.9	654.8	665.0
117.5°	133.9	144.2	154.5	157.1	209.3	278.9	313.7	379.2	510.1	608.3	619.8
120°	142.8	152.5	162.2	164.6	212.4	276.1	307.9	367.6	487.3	577.0	588.1
122.5°	151.6	161.3	171.1	173.5	216.9	274.5	303.4	357.3	465.0	545.8	556.8
125°	165.0	173.9	182.8	185.0	222.9	273.4	298.5	344.3	435.9	504.5	514.5
127.5°	175.9	184.8	193.8	196.0	228.9	272.6	294.5	333.8	412.4	471.3	479.8
130°	181.7	191.4	201.0	203.4	233.2	273.1	292.9	327.9	397.9	450.3	458.1
132.5°	187.7	197.4	207.0	209.4	236.8	273.4	291.6	322.9	385.5	432.5	439.5
135°	196.6	205.4	214.2	216.5	240.7	273.1	289.2	315.5	367.9	407.3	413.3
137.5°	205.7	214.4	223.2	225.4	246.5	274.7	288.9	311.0	355.3	388.6	393.5
140°	213.3	221.3	229.4	231.4	250.1	275.0	287.5	306.7	345.0	373.6	378.3
142.5°	219.2	226.6	234.0	235.9	253.1	276.1	287.5	304.4	338.0	363.2	367.2
145°	228.1	234.6	241.0	242.6	257.0	276.1	285.6	299.3	326.8	347.5	350.5
147.5°	237.0	243.3	249.6	251.2	262.6	277.9	285.6	296.4	318.0	334.2	336.7
150°	242.8	248.5	254.2	255.6	265.6	278.9	285.6	294.7	313.0	326.6	328.7
152.5°	248.8	253.1	257.5	258.5	267.5	279.6	285.6	293.3	308.9	320.6	322.2
155°	257.8	261.0	264.1	264.9	271.8	281.0	285.6	291.8	304.2	313.5	314.4
157.5°	264.3	267.4	270.5	271.3	276.1	282.4	285.6	290.4	300.0	307.3	307.9
160°	268.8	271.2	273.6	274.2	278.0	283.0	285.6	289.7	298.0	304.2	304.6
162.5°	273.3	275.1	276.8	277.3	280.0	283.7	285.6	289.1	296.0	301.3	301.6
165°	278.2	279.8	281.5	281.9	283.1	284.8	285.6	288.1	293.0	296.8	297.2
167.5°	282.7	283.4	284.2	284.4	285.5	286.8	287.5	289.1	292.4	294.9	295.1
170°	285.6	286.3	287.1	287.3	287.4	287.5	287.5	289.1	292.4	294.9	294.9
172.5°	287.1	287.3	287.5	287.5	287.5	287.5	287.5	288.8	291.4	293.3	293.1
175°	289.2	289.2	289.2	289.2	288.7	287.9	287.5	288.3	289.9	291.2	291.2
177.5°	289.2	289.2	289.2	289.2	288.8	288.2	287.9	288.6	289.8	290.8	290.6
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2

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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°	7.4	7.4	7.4	7.4	7.4	9.8	13.1	14.7	12.7	8.5	5.4
92.5°	29.6	23.6	29.6	35.5	36.9	52.3	72.8	83.0	73.0	52.7	37.5
95°	103.0	85.2	103.0	120.7	125.2	164.4	216.7	242.8	205.0	129.6	73.0
97.5°	246.7	212.9	246.7	280.6	289.1	313.9	346.9	363.4	300.4	174.5	80.1
100°	355.5	315.2	355.5	395.8	405.9	404.1	401.7	400.4	330.5	190.9	86.1
102.5°	462.5	428.0	462.5	497.0	505.6	474.0	432.0	411.0	340.1	198.5	92.2
105°	598.9	580.3	598.9	617.4	622.1	551.4	457.0	409.8	341.2	204.1	101.2
107.5°	688.3	692.7	688.3	683.8	682.7	583.9	452.2	386.4	326.0	205.0	114.3
110°	722.3	741.7	722.3	703.0	698.2	587.8	440.6	367.1	312.5	203.5	121.7

TEST NUMBER: P933994

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	725.4	755.0	725.4	695.7	688.3	575.3	424.7	349.4	300.8	203.6	130.6
115°	706.2	747.3	706.2	665.0	654.8	545.9	400.8	328.2	287.3	205.4	144.0
117.5°	665.4	711.1	665.4	619.8	608.3	510.1	379.2	313.7	278.9	209.3	157.1
120°	632.5	676.8	632.5	588.1	577.0	487.3	367.6	307.9	276.1	212.4	164.6
122.5°	600.5	644.2	600.5	556.8	545.8	465.0	357.3	303.4	274.5	216.9	173.5
125°	554.8	595.2	554.8	514.5	504.5	435.9	344.3	298.5	273.4	222.9	185.0
127.5°	513.8	547.8	513.8	479.8	471.3	412.4	333.8	294.5	272.6	228.9	196.0
130°	489.5	520.9	489.5	458.1	450.3	397.9	327.9	292.9	273.1	233.2	203.4
132.5°	467.6	495.7	467.6	439.5	432.5	385.5	322.9	291.6	273.4	236.8	209.4
135°	437.5	461.7	437.5	413.3	407.3	367.9	315.5	289.2	273.1	240.7	216.5
137.5°	413.4	433.2	413.4	393.5	388.6	355.3	311.0	288.9	274.7	246.5	225.4
140°	396.8	415.4	396.8	378.3	373.6	345.0	306.7	287.5	275.0	250.1	231.4
142.5°	383.1	399.0	383.1	367.2	363.2	338.0	304.4	287.5	276.1	253.1	235.9
145°	362.6	374.6	362.6	350.5	347.5	326.8	299.3	285.6	276.1	257.0	242.6
147.5°	346.7	356.8	346.7	336.7	334.2	318.0	296.4	285.6	277.9	262.6	251.2
150°	336.8	345.0	336.8	328.7	326.6	313.0	294.7	285.6	278.9	265.6	255.6
152.5°	328.3	334.4	328.3	322.2	320.6	308.9	293.3	285.6	279.6	267.5	258.5
155°	318.5	322.6	318.5	314.4	313.5	304.2	291.8	285.6	281.0	271.8	264.9
157.5°	310.9	313.7	310.9	307.9	307.3	300.0	290.4	285.6	282.4	276.1	271.3
160°	306.2	307.9	306.2	304.6	304.2	298.0	289.7	285.6	283.0	278.0	274.2
162.5°	303.2	304.8	303.2	301.6	301.3	296.0	289.1	285.6	283.7	280.0	277.3
165°	298.8	300.5	298.8	297.2	296.8	293.0	288.1	285.6	284.8	283.1	281.9
167.5°	295.7	296.4	295.7	295.1	294.9	292.4	289.1	287.5	286.8	285.5	284.4
170°	294.9	294.9	294.9	294.9	294.9	292.4	289.1	287.5	287.5	287.4	287.3
172.5°	292.5	292.0	292.5	293.1	293.3	291.4	288.8	287.5	287.5	287.5	287.5
175°	291.2	291.2	291.2	291.2	291.2	289.9	288.3	287.5	287.9	288.7	289.2
177.5°	289.9	289.2	289.9	290.6	290.8	289.8	288.6	287.9	288.2	288.8	289.2
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2

TEST NUMBER: P933994

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-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°	5.0	3.5	1.9	3.5	5.0	5.4	8.5	12.7	14.7	13.1	9.8
92.5°	34.2	20.9	7.8	20.9	34.2	37.5	52.7	73.0	83.0	72.8	52.3
95°	67.0	42.7	18.6	42.7	67.0	73.0	129.6	205.0	242.8	216.7	164.4
97.5°	74.8	53.6	32.3	53.6	74.8	80.1	174.5	300.4	363.4	346.9	313.9
100°	81.3	62.0	42.7	62.0	81.3	86.1	190.9	330.5	400.4	401.7	404.1
102.5°	87.7	69.7	51.6	69.7	87.7	92.2	198.5	340.1	411.0	432.0	474.0
105°	97.4	82.1	66.8	82.1	97.4	101.2	204.1	341.2	409.8	457.0	551.4
107.5°	110.8	96.5	82.3	96.5	110.8	114.3	205.0	326.0	386.4	452.2	583.9
110°	118.5	105.6	92.8	105.6	118.5	121.7	203.5	312.5	367.1	440.6	587.8



TEST NUMBER: P933994

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	127.5	115.3	103.1	115.3	127.5	130.6	203.6	300.8	349.4	424.7	575.3
115°	141.2	129.8	118.6	129.8	141.2	144.0	205.4	287.3	328.2	400.8	545.9
117.5°	154.5	144.2	133.9	144.2	154.5	157.1	209.3	278.9	313.7	379.2	510.1
120°	162.2	152.5	142.8	152.5	162.2	164.6	212.4	276.1	307.9	367.6	487.3
122.5°	171.1	161.3	151.6	161.3	171.1	173.5	216.9	274.5	303.4	357.3	465.0
125°	182.8	173.9	165.0	173.9	182.8	185.0	222.9	273.4	298.5	344.3	435.9
127.5°	193.8	184.8	175.9	184.8	193.8	196.0	228.9	272.6	294.5	333.8	412.4
130°	201.0	191.4	181.7	191.4	201.0	203.4	233.2	273.1	292.9	327.9	397.9
132.5°	207.0	197.4	187.7	197.4	207.0	209.4	236.8	273.4	291.6	322.9	385.5
135°	214.2	205.4	196.6	205.4	214.2	216.5	240.7	273.1	289.2	315.5	367.9
137.5°	223.2	214.4	205.7	214.4	223.2	225.4	246.5	274.7	288.9	311.0	355.3
140°	229.4	221.3	213.3	221.3	229.4	231.4	250.1	275.0	287.5	306.7	345.0
142.5°	234.0	226.6	219.2	226.6	234.0	235.9	253.1	276.1	287.5	304.4	338.0
145°	241.0	234.6	228.1	234.6	241.0	242.6	257.0	276.1	285.6	299.3	326.8
147.5°	249.6	243.3	237.0	243.3	249.6	251.2	262.6	277.9	285.6	296.4	318.0
150°	254.2	248.5	242.8	248.5	254.2	255.6	265.6	278.9	285.6	294.7	313.0
152.5°	257.5	253.1	248.8	253.1	257.5	258.5	267.5	279.6	285.6	293.3	308.9
155°	264.1	261.0	257.8	261.0	264.1	264.9	271.8	281.0	285.6	291.8	304.2
157.5°	270.5	267.4	264.3	267.4	270.5	271.3	276.1	282.4	285.6	290.4	300.0
160°	273.6	271.2	268.8	271.2	273.6	274.2	278.0	283.0	285.6	289.7	298.0
162.5°	276.8	275.1	273.3	275.1	276.8	277.3	280.0	283.7	285.6	289.1	296.0
165°	281.5	279.8	278.2	279.8	281.5	281.9	283.1	284.8	285.6	288.1	293.0
167.5°	284.2	283.4	282.7	283.4	284.2	284.4	285.5	286.8	287.5	289.1	292.4
170°	287.1	286.3	285.6	286.3	287.1	287.3	287.4	287.5	287.5	289.1	292.4
172.5°	287.5	287.3	287.1	287.3	287.5	287.5	287.5	287.5	287.5	288.8	291.4
175°	289.2	289.2	289.2	289.2	289.2	289.2	288.7	287.9	287.5	288.3	289.9
177.5°	289.2	289.2	289.2	289.2	289.2	289.2	288.8	288.2	287.9	288.6	289.8
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2

TEST NUMBER: P933994

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-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°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.8	13.1	14.7	12.7
92.5°	36.9	35.5	29.6	23.6	29.6	35.5	36.9	52.3	72.8	83.0	73.0
95°	125.2	120.7	103.0	85.2	103.0	120.7	125.2	164.4	216.7	242.8	205.0
97.5°	289.1	280.6	246.7	212.9	246.7	280.6	289.1	313.9	346.9	363.4	300.4
100°	405.9	395.8	355.5	315.2	355.5	395.8	405.9	404.1	401.7	400.4	330.5
102.5°	505.6	497.0	462.5	428.0	462.5	497.0	505.6	474.0	432.0	411.0	340.1
105°	622.1	617.4	598.9	580.3	598.9	617.4	622.1	551.4	457.0	409.8	341.2
107.5°	682.7	683.8	688.3	692.7	688.3	683.8	682.7	583.9	452.2	386.4	326.0
110°	698.2	703.0	722.3	741.7	722.3	703.0	698.2	587.8	440.6	367.1	312.5

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	688.3	695.7	725.4	755.0	725.4	695.7	688.3	575.3	424.7	349.4	300.8
115°	654.8	665.0	706.2	747.3	706.2	665.0	654.8	545.9	400.8	328.2	287.3
117.5°	608.3	619.8	665.4	711.1	665.4	619.8	608.3	510.1	379.2	313.7	278.9
120°	577.0	588.1	632.5	676.8	632.5	588.1	577.0	487.3	367.6	307.9	276.1
122.5°	545.8	556.8	600.5	644.2	600.5	556.8	545.8	465.0	357.3	303.4	274.5
125°	504.5	514.5	554.8	595.2	554.8	514.5	504.5	435.9	344.3	298.5	273.4
127.5°	471.3	479.8	513.8	547.8	513.8	479.8	471.3	412.4	333.8	294.5	272.6
130°	450.3	458.1	489.5	520.9	489.5	458.1	450.3	397.9	327.9	292.9	273.1
132.5°	432.5	439.5	467.6	495.7	467.6	439.5	432.5	385.5	322.9	291.6	273.4
135°	407.3	413.3	437.5	461.7	437.5	413.3	407.3	367.9	315.5	289.2	273.1
137.5°	388.6	393.5	413.4	433.2	413.4	393.5	388.6	355.3	311.0	288.9	274.7
140°	373.6	378.3	396.8	415.4	396.8	378.3	373.6	345.0	306.7	287.5	275.0
142.5°	363.2	367.2	383.1	399.0	383.1	367.2	363.2	338.0	304.4	287.5	276.1
145°	347.5	350.5	362.6	374.6	362.6	350.5	347.5	326.8	299.3	285.6	276.1
147.5°	334.2	336.7	346.7	356.8	346.7	336.7	334.2	318.0	296.4	285.6	277.9
150°	326.6	328.7	336.8	345.0	336.8	328.7	326.6	313.0	294.7	285.6	278.9
152.5°	320.6	322.2	328.3	334.4	328.3	322.2	320.6	308.9	293.3	285.6	279.6
155°	313.5	314.4	318.5	322.6	318.5	314.4	313.5	304.2	291.8	285.6	281.0
157.5°	307.3	307.9	310.9	313.7	310.9	307.9	307.3	300.0	290.4	285.6	282.4
160°	304.2	304.6	306.2	307.9	306.2	304.6	304.2	298.0	289.7	285.6	283.0
162.5°	301.3	301.6	303.2	304.8	303.2	301.6	301.3	296.0	289.1	285.6	283.7
165°	296.8	297.2	298.8	300.5	298.8	297.2	296.8	293.0	288.1	285.6	284.8
167.5°	294.9	295.1	295.7	296.4	295.7	295.1	294.9	292.4	289.1	287.5	286.8
170°	294.9	294.9	294.9	294.9	294.9	294.9	294.9	292.4	289.1	287.5	287.5
172.5°	293.3	293.1	292.5	292.0	292.5	293.1	293.3	291.4	288.8	287.5	287.5
175°	291.2	291.2	291.2	291.2	291.2	291.2	291.2	289.9	288.3	287.5	287.9
177.5°	290.8	290.6	289.9	289.2	289.9	290.6	290.8	289.8	288.6	287.9	288.2
180°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2

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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°	8.5	5.4	5.0	3.5	1.9
92.5°	52.7	37.5	34.2	20.9	7.8
95°	129.6	73.0	67.0	42.7	18.6
97.5°	174.5	80.1	74.8	53.6	32.3
100°	190.9	86.1	81.3	62.0	42.7
102.5°	198.5	92.2	87.7	69.7	51.6
105°	204.1	101.2	97.4	82.1	66.8
107.5°	205.0	114.3	110.8	96.5	82.3
110°	203.5	121.7	118.5	105.6	92.8



TEST NUMBER: P933994

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	203.6	130.6	127.5	115.3	103.1
115°	205.4	144.0	141.2	129.8	118.6
117.5°	209.3	157.1	154.5	144.2	133.9
120°	212.4	164.6	162.2	152.5	142.8
122.5°	216.9	173.5	171.1	161.3	151.6
125°	222.9	185.0	182.8	173.9	165.0
127.5°	228.9	196.0	193.8	184.8	175.9
130°	233.2	203.4	201.0	191.4	181.7
132.5°	236.8	209.4	207.0	197.4	187.7
135°	240.7	216.5	214.2	205.4	196.6
137.5°	246.5	225.4	223.2	214.4	205.7
140°	250.1	231.4	229.4	221.3	213.3
142.5°	253.1	235.9	234.0	226.6	219.2
145°	257.0	242.6	241.0	234.6	228.1
147.5°	262.6	251.2	249.6	243.3	237.0
150°	265.6	255.6	254.2	248.5	242.8
152.5°	267.5	258.5	257.5	253.1	248.8
155°	271.8	264.9	264.1	261.0	257.8
157.5°	276.1	271.3	270.5	267.4	264.3
160°	278.0	274.2	273.6	271.2	268.8
162.5°	280.0	277.3	276.8	275.1	273.3
165°	283.1	281.9	281.5	279.8	278.2
167.5°	285.5	284.4	284.2	283.4	282.7
170°	287.4	287.3	287.1	286.3	285.6
172.5°	287.5	287.5	287.5	287.3	287.1
175°	288.7	289.2	289.2	289.2	289.2
177.5°	288.8	289.2	289.2	289.2	289.2
180°	289.2	289.2	289.2	289.2	289.2

TEST NUMBER: P933994

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-W2A-W-8-3500K

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	14.60	15.72	15.32	16.46	17.35	17.43	18.56	18.15	19.30	20.18
	3H	15.09	16.10	15.83	16.86	17.77	18.80	19.81	19.54	20.56	21.48
	4H	15.30	16.25	16.05	17.01	17.94	19.26	20.21	20.01	20.97	21.90
	6H	15.43	16.31	16.19	17.08	18.02	19.56	20.44	20.33	21.21	22.15
	8H	15.44	16.28	16.21	17.07	18.01	19.64	20.48	20.42	21.27	22.21
	12H	15.42	16.22	16.20	17.00	17.97	19.69	20.49	20.47	21.27	22.24
4H	2H	15.66	16.62	16.42	17.38	18.30	17.87	18.83	18.63	19.59	20.52
	3H	16.71	17.51	17.48	18.31	19.25	19.41	20.20	20.18	21.00	21.94
	4H	17.00	17.72	17.78	18.52	19.49	19.95	20.67	20.73	21.47	22.44
	6H	17.14	17.77	17.94	18.59	19.57	20.33	20.96	21.13	21.78	22.76
	8H	17.15	17.74	17.96	18.55	19.55	20.44	21.03	21.25	21.85	22.84
	12H	17.13	17.66	17.96	18.50	19.49	20.51	21.04	21.34	21.88	22.88
8H	4H	17.48	18.06	18.28	18.88	19.87	20.09	20.68	20.90	21.49	22.49
	6H	17.75	18.23	18.58	19.09	20.09	20.54	21.03	21.38	21.89	22.88
	8H	17.79	18.22	18.64	19.08	20.09	20.70	21.13	21.54	21.98	22.99
	12H	17.79	18.17	18.64	19.02	20.08	20.81	21.19	21.66	22.04	23.10
12H	4H	17.50	18.02	18.32	18.86	19.86	20.07	20.60	20.90	21.43	22.43
	6H	17.81	18.24	18.66	19.10	20.11	20.54	20.97	21.39	21.83	22.84
	8H	17.89	18.27	18.74	19.12	20.18	20.72	21.10	21.56	21.94	23.01

END OF REPORT