

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: P934348

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934348
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-92765-1D-UNV-STD-W-8-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

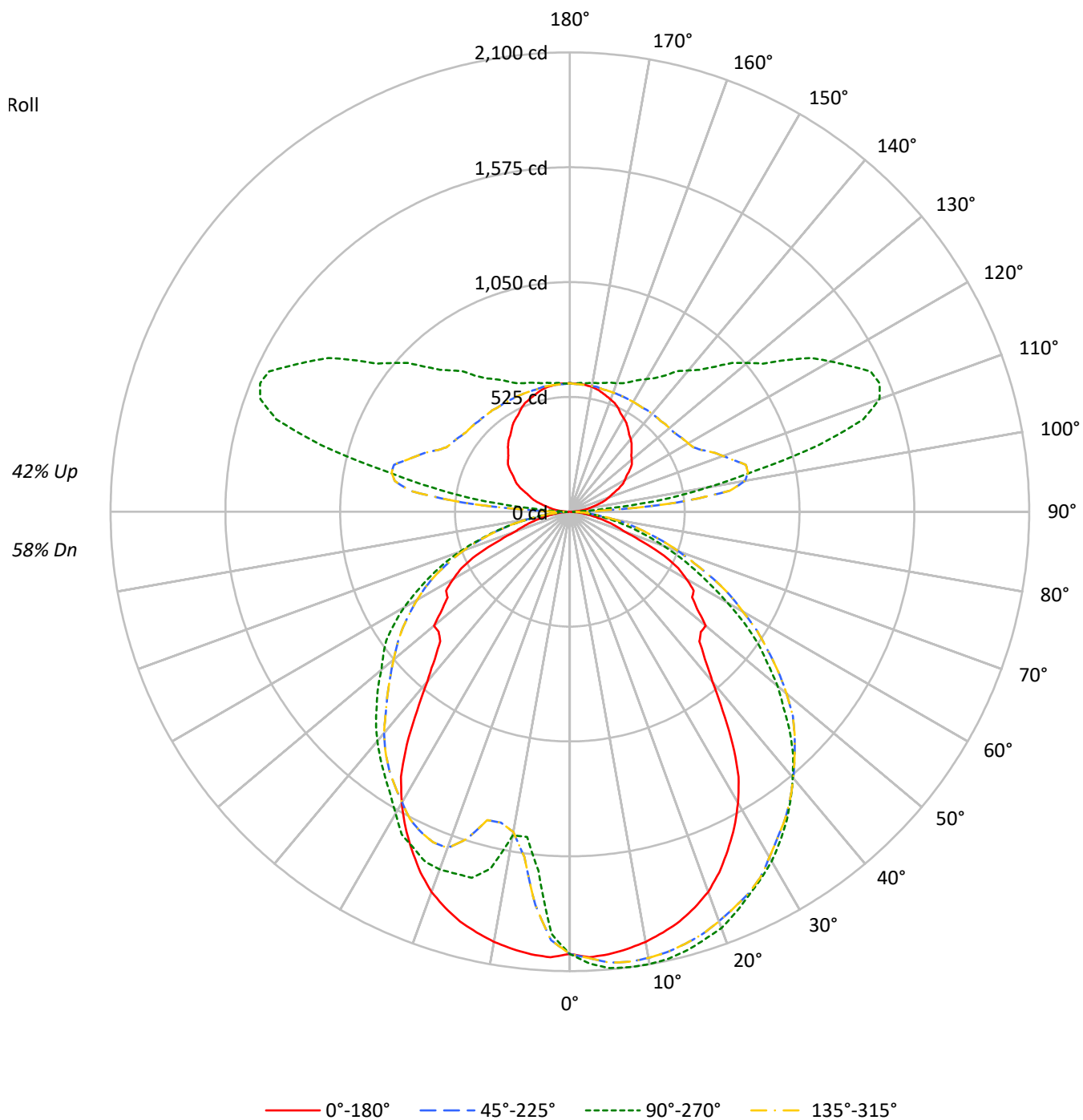
Lumens per Lamp: N/A
Luminaire Lumens: 9050.4 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9378	9378	9378	9378
5°	9448	9467	9448	7444
10°	9385	9325	9385	6667
15°	9283	9123	9283	7618
20°	9089	8884	9089	7634
25°	8691	8534	8691	7472
30°	8178	8245	8178	7117
35°	7290	7878	7290	6727
40°	6075	7447	6075	6432
45°	5428	6941	5428	6092
50°	5767	6339	5767	5753
55°	5425	5690	5425	5555
60°	5593	4833	5593	5089
65°	5071	3995	5071	4466
70°	3511	3184	3511	3743
75°	3079	2353	3079	2818
80°	2480	1556	2480	1694
85°	1425	824	1425	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8319 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	2.0
10°-20°	518.0	5.7
20°-30°	800.8	8.8
30°-40°	956.0	10.6
40°-50°	961.6	10.6
50°-60°	836.7	9.2
60°-70°	593.3	6.6
70°-80°	313.9	3.5
80°-90°	80.4	0.9
90°-100°	286.3	3.2
100°-110°	752.6	8.3
110°-120°	780.4	8.6
120°-130°	626.0	6.9
130°-140°	491.2	5.4
140°-150°	377.0	4.2
150°-160°	271.5	3.0
160°-170°	166.1	1.8
170°-180°	56.1	0.6
0°-30°	1501.3	16.6
0°-40°	2457.3	27.2
0°-60°	4255.6	47.0
0°-90°	5243.1	57.9
90°-120°	1819.3	20.1
90°-150°	3313.5	36.6
90°-180°	3807.0	42.1
0°-180°	9050.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2021	2021	2021	2021	2021	
5°	2031	2094	2031	1646	2031	193
15°	1939	2075	1939	1732	1939	546
25°	1708	1935	1708	1694	1708	784
35°	1298	1727	1298	1474	1298	803
45°	838	1423	838	1249	838	671
55°	683	1050	683	1025	683	627
65°	474	633	474	708	474	453
75°	180	300	180	360	180	189
85°	31	76	31	65	31	41
90°	4	15	4	15	4	5
95°	38	173	38	173	38	42
105°	136	1178	136	1178	136	144
115°	241	1518	241	1518	241	238
125°	335	1208	335	1208	335	297
135°	399	938	399	938	399	309
145°	463	761	463	761	463	290
155°	523	655	523	655	523	240
165°	565	610	565	610	565	159
175°	587	591	587	591	587	56
180°	587	587	587	587	587	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	2038.5	2038.5	2050.0	2053.8	2053.8	2048.1	2042.3	2048.1	2065.3	2071.0	2069.1
5°	2030.9	2046.2	2067.2	2071.0	2074.8	2072.9	2069.1	2072.9	2092.1	2095.9	2097.8
7.5°	2015.6	2044.2	2071.0	2076.8	2082.5	2076.8	2074.8	2078.7	2097.8	2101.6	2101.6
10°	1996.4	2036.6	2067.2	2071.0	2076.8	2071.0	2071.0	2078.7	2097.8	2101.6	2103.5
12.5°	1969.7	2025.1	2053.8	2057.6	2065.3	2063.4	2061.5	2069.1	2088.2	2092.1	2092.1
15°	1939.1	2004.1	2030.9	2034.7	2048.1	2044.2	2044.2	2051.9	2072.9	2078.7	2076.8
17.5°	1897.0	1977.3	2007.9	2013.6	2023.2	2021.3	2023.2	2030.9	2050.0	2053.8	2055.7
20°	1849.2	1941.0	1977.3	1983.0	1992.6	1992.6	1992.6	2002.2	2021.3	2028.9	2028.9
22.5°	1784.2	1902.7	1941.0	1944.8	1956.3	1956.3	1960.1	1973.5	1990.7	1992.6	1992.6
25°	1707.7	1860.7	1893.2	1904.6	1916.1	1921.9	1927.6	1935.2	1941.0	1939.1	1941.0
27.5°	1627.3	1807.1	1849.2	1856.8	1872.1	1877.9	1885.5	1887.4	1889.3	1895.1	1891.3
30°	1537.5	1732.5	1795.6	1803.3	1828.1	1832.0	1824.3	1828.1	1837.7	1841.5	1845.4
32.5°	1436.1	1621.6	1740.2	1757.4	1780.3	1768.9	1766.9	1772.7	1788.0	1788.0	1791.8
35°	1298.4	1535.6	1688.5	1703.8	1721.1	1707.7	1715.3	1717.2	1726.8	1732.5	1730.6
37.5°	1147.3	1461.0	1635.0	1646.5	1659.9	1642.6	1654.1	1659.9	1667.5	1663.7	1663.7
40°	1013.6	1344.3	1571.9	1579.5	1591.0	1577.6	1589.1	1592.9	1596.7	1592.9	1591.0
42.5°	914.1	1216.2	1505.0	1514.5	1506.9	1516.4	1520.3	1527.9	1522.2	1514.5	1514.5
45°	837.6	1181.8	1432.3	1443.8	1432.3	1447.6	1453.3	1453.3	1436.1	1432.3	1430.4
47.5°	812.8	1113.0	1359.6	1359.6	1353.9	1373.0	1382.6	1369.2	1352.0	1346.2	1346.2
50°	810.9	1036.5	1260.2	1252.5	1279.3	1302.2	1292.7	1279.3	1265.9	1244.9	1244.9
52.5°	736.3	942.8	1132.1	1160.7	1202.8	1216.2	1200.9	1187.5	1164.5	1155.0	1147.3
55°	682.7	845.3	1015.5	1072.8	1116.8	1134.0	1105.4	1092.0	1057.5	1051.8	1048.0
57.5°	671.2	703.8	908.4	981.1	1034.6	1032.7	1015.5	990.6	961.9	956.2	954.3
60°	615.8	508.7	793.6	879.7	935.2	929.4	914.1	891.2	864.4	860.6	856.7
62.5°	558.4	369.1	663.6	761.1	839.5	837.6	824.2	789.8	770.7	761.1	753.5
65°	474.3	309.8	472.4	633.0	745.8	749.7	721.0	696.1	675.1	663.6	661.7
67.5°	361.4	252.4	319.4	527.8	655.9	652.1	615.8	604.3	577.5	571.8	560.3
70°	267.7	168.3	221.8	428.4	568.0	558.4	529.7	516.3	491.5	478.1	470.4
72.5°	221.8	135.8	162.6	332.8	478.1	466.6	441.8	426.5	405.4	394.0	386.3
75°	179.8	143.4	124.3	246.7	388.2	380.6	357.6	342.3	325.1	309.8	311.7
77.5°	132.0	133.9	99.4	181.7	307.9	296.4	283.0	263.9	256.3	241.0	241.0
80°	99.4	105.2	74.6	124.3	221.8	221.8	210.4	197.0	183.6	175.9	175.9
82.5°	66.9	66.9	55.5	78.4	151.1	145.3	137.7	133.9	126.2	122.4	122.4
85°	30.6	38.2	34.4	47.8	82.2	86.1	86.1	82.2	80.3	76.5	78.4
87.5°	9.6	17.2	21.0	26.8	42.1	44.0	45.9	45.9	45.9	47.8	47.8
90°	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.6	20.0	15.0	15.0
92.5°	15.8	42.6	69.4	76.1	107.0	148.1	168.7	147.8	106.1	74.9	71.9
95°	37.9	86.9	136.0	148.2	263.1	416.4	493.1	440.0	333.9	254.3	245.3
97.5°	65.4	108.6	151.9	162.7	354.5	610.1	737.9	704.3	637.2	586.9	569.7
100°	86.7	125.9	165.1	175.0	387.7	671.3	813.1	815.6	820.5	824.1	803.7
102.5°	104.9	141.5	178.0	187.2	402.9	690.7	834.5	877.2	962.7	1026.8	1009.3
105°	135.6	166.6	197.6	205.4	414.3	692.9	832.1	927.9	1119.6	1263.3	1253.9
107.5°	167.1	196.0	224.9	232.2	416.3	662.0	784.7	918.4	1185.8	1386.3	1388.6
110°	188.4	214.5	240.7	247.2	413.3	634.6	745.4	894.8	1193.6	1417.7	1427.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	209.3	234.2	259.0	265.2	413.4	610.8	709.5	862.4	1168.3	1397.7	1412.8
115°	240.9	263.8	286.8	292.5	417.2	583.5	666.6	813.9	1108.5	1329.5	1350.3
117.5°	271.9	292.8	313.6	318.9	424.9	566.3	636.9	769.9	1035.8	1235.3	1258.4
120°	290.1	309.7	329.4	334.3	431.2	560.5	625.2	746.6	989.6	1171.8	1194.3
122.5°	307.8	327.6	347.4	352.4	440.2	557.5	616.1	725.5	944.3	1108.4	1130.6
125°	335.1	353.0	371.1	375.6	452.5	555.0	606.2	699.2	885.1	1024.5	1044.9
127.5°	357.1	375.3	393.5	398.1	464.7	553.5	597.9	677.7	837.3	957.1	974.3
130°	368.9	388.5	408.2	413.1	473.6	554.4	594.8	665.8	807.9	914.4	930.4
132.5°	381.1	400.7	420.4	425.3	480.9	555.0	592.1	655.7	782.8	878.2	892.4
135°	399.3	417.2	435.0	439.5	488.7	554.4	587.3	640.6	747.1	826.9	839.3
137.5°	417.9	435.5	453.2	457.6	500.6	557.8	586.5	631.6	721.6	789.1	799.2
140°	433.2	449.5	465.8	469.9	507.8	558.4	583.8	622.7	700.4	758.7	768.1
142.5°	445.0	460.0	475.1	478.9	513.9	560.4	583.8	617.9	686.3	737.5	745.6
145°	463.2	476.3	489.5	492.7	521.8	560.5	579.8	607.8	663.7	705.6	711.7
147.5°	481.3	494.1	506.9	510.0	533.3	564.3	579.8	601.8	645.7	678.7	683.8
150°	493.1	504.7	516.2	519.1	539.4	566.4	579.8	598.4	635.6	663.4	667.5
152.5°	505.3	514.1	522.8	525.0	543.3	567.7	579.8	595.7	627.4	651.2	654.3
155°	523.4	529.9	536.4	538.0	552.0	570.6	579.8	592.5	617.6	636.5	638.6
157.5°	536.8	543.1	549.4	551.1	560.6	573.4	579.8	589.6	609.2	623.9	625.4
160°	545.9	550.9	555.7	557.0	564.6	574.8	579.8	588.2	605.0	617.6	618.5
162.5°	555.0	558.7	562.3	563.3	568.8	576.2	579.8	586.9	601.2	611.8	612.5
165°	564.8	568.2	571.4	572.3	574.8	578.1	579.8	584.9	595.0	602.7	603.5
167.5°	573.9	575.4	577.1	577.4	579.5	582.3	583.8	587.1	593.8	598.8	599.2
170°	579.8	581.4	583.0	583.4	583.5	583.7	583.8	587.1	593.8	598.8	598.8
172.5°	583.0	583.4	583.7	583.8	583.8	583.8	583.8	586.4	591.7	595.6	595.3
175°	587.3	587.3	587.3	587.3	586.1	584.5	583.8	585.4	588.7	591.2	591.2
177.5°	587.3	587.3	587.3	587.3	586.3	585.1	584.5	585.9	588.4	590.4	590.1
180°	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	2072.9	2067.2	2072.9	2069.1	2071.0	2065.3	2048.1	2042.3	2048.1	2053.8	2053.8
5°	2097.8	2094.0	2097.8	2097.8	2095.9	2092.1	2072.9	2069.1	2072.9	2074.8	2071.0
7.5°	2105.4	2099.7	2105.4	2101.6	2101.6	2097.8	2078.7	2074.8	2076.8	2082.5	2076.8
10°	2105.4	2099.7	2105.4	2103.5	2101.6	2097.8	2078.7	2071.0	2071.0	2076.8	2071.0
12.5°	2095.9	2092.1	2095.9	2092.1	2092.1	2088.2	2069.1	2061.5	2063.4	2065.3	2057.6
15°	2080.6	2074.8	2080.6	2076.8	2078.7	2072.9	2051.9	2044.2	2044.2	2048.1	2034.7
17.5°	2057.6	2050.0	2057.6	2055.7	2053.8	2050.0	2030.9	2023.2	2021.3	2023.2	2013.6
20°	2030.9	2025.1	2030.9	2028.9	2028.9	2021.3	2002.2	1992.6	1992.6	1992.6	1983.0
22.5°	1988.8	1983.0	1988.8	1992.6	1992.6	1990.7	1973.5	1960.1	1956.3	1956.3	1944.8
25°	1941.0	1935.2	1941.0	1941.0	1939.1	1941.0	1935.2	1927.6	1921.9	1916.1	1904.6
27.5°	1895.1	1891.3	1895.1	1891.3	1895.1	1889.3	1887.4	1885.5	1877.9	1872.1	1856.8
30°	1849.2	1845.4	1849.2	1845.4	1841.5	1837.7	1828.1	1824.3	1832.0	1828.1	1803.3
32.5°	1791.8	1788.0	1791.8	1791.8	1788.0	1788.0	1772.7	1766.9	1768.9	1780.3	1757.4
35°	1732.5	1726.8	1732.5	1730.6	1732.5	1726.8	1717.2	1715.3	1707.7	1721.1	1703.8
37.5°	1663.7	1657.9	1663.7	1663.7	1663.7	1667.5	1659.9	1654.1	1642.6	1659.9	1646.5
40°	1592.9	1585.3	1592.9	1591.0	1592.9	1596.7	1592.9	1589.1	1577.6	1591.0	1579.5
42.5°	1512.6	1510.7	1512.6	1514.5	1514.5	1522.2	1527.9	1520.3	1516.4	1506.9	1514.5
45°	1426.5	1422.7	1426.5	1430.4	1432.3	1436.1	1453.3	1453.3	1447.6	1432.3	1443.8
47.5°	1334.7	1325.2	1334.7	1346.2	1346.2	1352.0	1369.2	1382.6	1373.0	1353.9	1359.6
50°	1237.2	1239.1	1237.2	1244.9	1244.9	1265.9	1279.3	1292.7	1302.2	1279.3	1252.5
52.5°	1141.6	1139.8	1141.6	1147.3	1155.0	1164.5	1187.5	1200.9	1216.2	1202.8	1160.7
55°	1046.1	1049.9	1046.1	1048.0	1051.8	1057.5	1092.0	1105.4	1134.0	1116.8	1072.8
57.5°	950.5	944.7	950.5	954.3	956.2	961.9	990.6	1015.5	1032.7	1034.6	981.1
60°	839.5	831.9	839.5	856.7	860.6	864.4	891.2	914.1	929.4	935.2	879.7
62.5°	742.0	728.6	742.0	753.5	761.1	770.7	789.8	824.2	837.6	839.5	761.1
65°	638.7	633.0	638.7	661.7	663.6	675.1	696.1	721.0	749.7	745.8	633.0
67.5°	545.0	545.0	545.0	560.3	571.8	577.5	604.3	615.8	652.1	655.9	527.8
70°	459.0	457.1	459.0	470.4	478.1	491.5	516.3	529.7	558.4	568.0	428.4
72.5°	376.7	374.8	376.7	386.3	394.0	405.4	426.5	441.8	466.6	478.1	332.8
75°	304.1	300.2	304.1	311.7	309.8	325.1	342.3	357.6	380.6	388.2	246.7
77.5°	233.3	233.3	233.3	241.0	241.0	256.3	263.9	283.0	296.4	307.9	181.7
80°	174.0	172.1	174.0	175.9	175.9	183.6	197.0	210.4	221.8	221.8	124.3
82.5°	122.4	118.6	122.4	122.4	122.4	126.2	133.9	137.7	145.3	151.1	78.4
85°	76.5	76.5	76.5	78.4	76.5	80.3	82.2	86.1	86.1	82.2	47.8
87.5°	49.7	47.8	49.7	47.8	47.8	45.9	45.9	45.9	44.0	42.1	26.8
90°	15.0	15.0	15.0	15.0	15.0	20.0	26.6	29.9	25.7	17.3	11.0
92.5°	60.0	48.1	60.0	71.9	74.9	106.1	147.8	168.7	148.1	107.0	76.1
95°	209.1	173.1	209.1	245.3	254.3	333.9	440.0	493.1	416.4	263.1	148.2
97.5°	501.0	432.4	501.0	569.7	586.9	637.2	704.3	737.9	610.1	354.5	162.7
100°	721.9	640.1	721.9	803.7	824.1	820.5	815.6	813.1	671.3	387.7	175.0
102.5°	939.2	869.1	939.2	1009.3	1026.8	962.7	877.2	834.5	690.7	402.9	187.2
105°	1216.2	1178.5	1216.2	1253.9	1263.3	1119.6	927.9	832.1	692.9	414.3	205.4
107.5°	1397.7	1406.8	1397.7	1388.6	1386.3	1185.8	918.4	784.7	662.0	416.3	232.2
110°	1466.8	1506.1	1466.8	1427.6	1417.7	1193.6	894.8	745.4	634.6	413.3	247.2

TEST NUMBER: P934348

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1473.0	1533.3	1473.0	1412.8	1397.7	1168.3	862.4	709.5	610.8	413.4	265.2
115°	1433.9	1517.5	1433.9	1350.3	1329.5	1108.5	813.9	666.6	583.5	417.2	292.5
117.5°	1351.2	1443.9	1351.2	1258.4	1235.3	1035.8	769.9	636.9	566.3	424.9	318.9
120°	1284.4	1374.4	1284.4	1194.3	1171.8	989.6	746.6	625.2	560.5	431.2	334.3
122.5°	1219.4	1308.3	1219.4	1130.6	1108.4	944.3	725.5	616.1	557.5	440.2	352.4
125°	1126.7	1208.5	1126.7	1044.9	1024.5	885.1	699.2	606.2	555.0	452.5	375.6
127.5°	1043.3	1112.3	1043.3	974.3	957.1	837.3	677.7	597.9	553.5	464.7	398.1
130°	994.2	1057.9	994.2	930.4	914.4	807.9	665.8	594.8	554.4	473.6	413.1
132.5°	949.6	1006.7	949.6	892.4	878.2	782.8	655.7	592.1	555.0	480.9	425.3
135°	888.5	937.7	888.5	839.3	826.9	747.1	640.6	587.3	554.4	488.7	439.5
137.5°	839.5	879.8	839.5	799.2	789.1	721.6	631.6	586.5	557.8	500.6	457.6
140°	805.8	843.5	805.8	768.1	758.7	700.4	622.7	583.8	558.4	507.8	469.9
142.5°	778.0	810.4	778.0	745.6	737.5	686.3	617.9	583.8	560.4	513.9	478.9
145°	736.3	760.7	736.3	711.7	705.6	663.7	607.8	579.8	560.5	521.8	492.7
147.5°	704.1	724.5	704.1	683.8	678.7	645.7	601.8	579.8	564.3	533.3	510.0
150°	684.0	700.4	684.0	667.5	663.4	635.6	598.4	579.8	566.4	539.4	519.1
152.5°	666.8	679.2	666.8	654.3	651.2	627.4	595.7	579.8	567.7	543.3	525.0
155°	646.9	655.1	646.9	638.6	636.5	617.6	592.5	579.8	570.6	552.0	538.0
157.5°	631.2	636.9	631.2	625.4	623.9	609.2	589.6	579.8	573.4	560.6	551.1
160°	621.8	625.2	621.8	618.5	617.6	605.0	588.2	579.8	574.8	564.6	557.0
162.5°	615.7	618.8	615.7	612.5	611.8	601.2	586.9	579.8	576.2	568.8	563.3
165°	606.8	610.1	606.8	603.5	602.7	595.0	584.9	579.8	578.1	574.8	572.3
167.5°	600.5	601.9	600.5	599.2	598.8	593.8	587.1	583.8	582.3	579.5	577.4
170°	598.8	598.8	598.8	598.8	598.8	593.8	587.1	583.8	583.7	583.5	583.4
172.5°	594.1	592.8	594.1	595.3	595.6	591.7	586.4	583.8	583.8	583.8	583.8
175°	591.2	591.2	591.2	591.2	591.2	588.7	585.4	583.8	584.5	586.1	587.3
177.5°	588.7	587.3	588.7	590.1	590.4	588.4	585.9	584.5	585.1	586.3	587.3
180°	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3

TEST NUMBER: P934348

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	2050.0	2038.5	2038.5	2019.4	2011.7	2006.0	1996.4	1967.7	1960.1	1952.5	1963.9
5°	2067.2	2046.2	2030.9	1996.4	1967.7	1956.3	1919.9	1851.1	1805.2	1770.8	1751.6
7.5°	2071.0	2044.2	2015.6	1962.0	1893.2	1862.6	1751.6	1625.4	1591.0	1560.4	1541.3
10°	2067.2	2036.6	1996.4	1916.1	1753.6	1700.0	1589.1	1506.9	1485.8	1480.1	1485.8
12.5°	2053.8	2025.1	1969.7	1835.8	1608.2	1571.9	1506.9	1459.1	1455.2	1464.8	1516.4
15°	2030.9	2004.1	1939.1	1728.7	1527.9	1501.1	1455.2	1438.0	1459.1	1526.0	1680.9
17.5°	2007.9	1977.3	1897.0	1623.5	1466.7	1447.6	1415.1	1449.5	1568.1	1657.9	1709.6
20°	1977.3	1941.0	1849.2	1547.0	1422.7	1405.5	1390.2	1545.1	1635.0	1667.5	1696.2
22.5°	1941.0	1902.7	1784.2	1493.5	1376.8	1363.4	1373.0	1598.7	1635.0	1657.9	1682.8
25°	1893.2	1860.7	1707.7	1451.4	1340.5	1325.2	1361.5	1592.9	1614.0	1619.7	1669.4
27.5°	1849.2	1807.1	1627.3	1413.2	1296.5	1290.8	1371.1	1568.1	1583.4	1589.1	1642.6
30°	1795.6	1732.5	1537.5	1373.0	1250.6	1248.7	1373.0	1537.5	1533.6	1548.9	1602.5
32.5°	1740.2	1621.6	1436.1	1323.3	1206.6	1204.7	1359.6	1491.6	1487.7	1508.8	1548.9
35°	1688.5	1535.6	1298.4	1265.9	1151.2	1153.1	1327.1	1438.0	1439.9	1459.1	1483.9
37.5°	1635.0	1461.0	1147.3	1202.8	1097.7	1097.7	1283.1	1388.3	1384.5	1390.2	1424.6
40°	1571.9	1344.3	1013.6	1120.7	1048.0	1042.3	1229.6	1334.7	1321.4	1319.5	1367.3
42.5°	1505.0	1216.2	914.1	1011.7	990.6	983.0	1164.5	1269.7	1244.9	1250.6	1311.8
45°	1432.3	1181.8	837.6	854.8	931.3	925.6	1093.9	1195.1	1177.9	1193.2	1256.3
47.5°	1359.6	1113.0	812.8	709.5	868.2	866.3	1015.5	1122.6	1113.0	1128.3	1195.1
50°	1260.2	1036.5	810.9	608.1	797.5	805.1	921.8	1051.8	1051.8	1065.2	1136.0
52.5°	1132.1	942.8	736.3	550.8	715.2	738.2	839.5	990.6	994.4	1007.8	1070.9
55°	1015.5	845.3	682.7	506.8	617.7	667.4	759.2	927.5	935.2	948.5	1005.9
57.5°	908.4	703.8	671.2	455.1	527.8	575.6	688.5	866.3	870.1	881.6	937.1
60°	793.6	508.7	615.8	399.7	449.4	485.7	623.4	793.6	807.0	814.7	862.5
62.5°	663.6	369.1	558.4	361.4	411.2	418.8	569.9	724.8	742.0	747.7	776.4
65°	472.4	309.8	474.3	328.9	371.0	372.9	512.5	654.0	669.3	678.9	699.9
67.5°	319.4	252.4	361.4	298.3	340.4	342.3	457.1	571.8	592.8	600.5	613.9
70°	221.8	168.3	267.7	265.8	306.0	309.8	397.8	497.2	516.3	522.1	529.7
72.5°	162.6	135.8	221.8	239.0	269.6	273.5	336.6	413.1	432.2	437.9	441.8
75°	124.3	143.4	179.8	208.5	229.5	231.4	275.4	336.6	350.0	353.8	355.7
77.5°	99.4	133.9	132.0	168.3	187.4	183.6	216.1	260.1	271.6	271.6	271.6
80°	74.6	105.2	99.4	120.5	137.7	133.9	154.9	185.5	189.3	193.2	191.2
82.5°	55.5	66.9	66.9	76.5	91.8	88.0	103.3	120.5	120.5	120.5	124.3
85°	34.4	38.2	30.6	40.2	51.6	49.7	57.4	65.0	66.9	66.9	63.1
87.5°	21.0	17.2	9.6	15.3	22.9	22.9	26.8	28.7	26.8	26.8	26.8
90°	10.2	7.1	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.6	20.0
92.5°	69.4	42.6	15.8	42.6	69.4	76.1	107.0	148.1	168.7	147.8	106.1
95°	136.0	86.9	37.9	86.9	136.0	148.2	263.1	416.4	493.1	440.0	333.9
97.5°	151.9	108.6	65.4	108.6	151.9	162.7	354.5	610.1	737.9	704.3	637.2
100°	165.1	125.9	86.7	125.9	165.1	175.0	387.7	671.3	813.1	815.6	820.5
102.5°	178.0	141.5	104.9	141.5	178.0	187.2	402.9	690.7	834.5	877.2	962.7
105°	197.6	166.6	135.6	166.6	197.6	205.4	414.3	692.9	832.1	927.9	1119.6
107.5°	224.9	196.0	167.1	196.0	224.9	232.2	416.3	662.0	784.7	918.4	1185.8
110°	240.7	214.5	188.4	214.5	240.7	247.2	413.3	634.6	745.4	894.8	1193.6

TEST NUMBER: P934348

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	259.0	234.2	209.3	234.2	259.0	265.2	413.4	610.8	709.5	862.4	1168.3
115°	286.8	263.8	240.9	263.8	286.8	292.5	417.2	583.5	666.6	813.9	1108.5
117.5°	313.6	292.8	271.9	292.8	313.6	318.9	424.9	566.3	636.9	769.9	1035.8
120°	329.4	309.7	290.1	309.7	329.4	334.3	431.2	560.5	625.2	746.6	989.6
122.5°	347.4	327.6	307.8	327.6	347.4	352.4	440.2	557.5	616.1	725.5	944.3
125°	371.1	353.0	335.1	353.0	371.1	375.6	452.5	555.0	606.2	699.2	885.1
127.5°	393.5	375.3	357.1	375.3	393.5	398.1	464.7	553.5	597.9	677.7	837.3
130°	408.2	388.5	368.9	388.5	408.2	413.1	473.6	554.4	594.8	665.8	807.9
132.5°	420.4	400.7	381.1	400.7	420.4	425.3	480.9	555.0	592.1	655.7	782.8
135°	435.0	417.2	399.3	417.2	435.0	439.5	488.7	554.4	587.3	640.6	747.1
137.5°	453.2	435.5	417.9	435.5	453.2	457.6	500.6	557.8	586.5	631.6	721.6
140°	465.8	449.5	433.2	449.5	465.8	469.9	507.8	558.4	583.8	622.7	700.4
142.5°	475.1	460.0	445.0	460.0	475.1	478.9	513.9	560.4	583.8	617.9	686.3
145°	489.5	476.3	463.2	476.3	489.5	492.7	521.8	560.5	579.8	607.8	663.7
147.5°	506.9	494.1	481.3	494.1	506.9	510.0	533.3	564.3	579.8	601.8	645.7
150°	516.2	504.7	493.1	504.7	516.2	519.1	539.4	566.4	579.8	598.4	635.6
152.5°	522.8	514.1	505.3	514.1	522.8	525.0	543.3	567.7	579.8	595.7	627.4
155°	536.4	529.9	523.4	529.9	536.4	538.0	552.0	570.6	579.8	592.5	617.6
157.5°	549.4	543.1	536.8	543.1	549.4	551.1	560.6	573.4	579.8	589.6	609.2
160°	555.7	550.9	545.9	550.9	555.7	557.0	564.6	574.8	579.8	588.2	605.0
162.5°	562.3	558.7	555.0	558.7	562.3	563.3	568.8	576.2	579.8	586.9	601.2
165°	571.4	568.2	564.8	568.2	571.4	572.3	574.8	578.1	579.8	584.9	595.0
167.5°	577.1	575.4	573.9	575.4	577.1	577.4	579.5	582.3	583.8	587.1	593.8
170°	583.0	581.4	579.8	581.4	583.0	583.4	583.5	583.7	583.8	587.1	593.8
172.5°	583.7	583.4	583.0	583.4	583.7	583.8	583.8	583.8	583.8	586.4	591.7
175°	587.3	587.3	587.3	587.3	587.3	587.3	586.1	584.5	583.8	585.4	588.7
177.5°	587.3	587.3	587.3	587.3	587.3	587.3	586.3	585.1	584.5	585.9	588.4
180°	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3

TEST NUMBER: P934348

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	1950.5	1944.8	1952.5	1931.4	1952.5	1944.8	1950.5	1963.9	1952.5	1960.1	1967.7
5°	1711.5	1701.9	1671.3	1646.5	1671.3	1701.9	1711.5	1751.6	1770.8	1805.2	1851.1
7.5°	1529.8	1522.2	1514.5	1499.2	1514.5	1522.2	1529.8	1541.3	1560.4	1591.0	1625.4
10°	1489.7	1491.6	1503.0	1501.1	1503.0	1491.6	1489.7	1485.8	1480.1	1485.8	1506.9
12.5°	1592.9	1610.1	1673.2	1669.4	1673.2	1610.1	1592.9	1516.4	1464.8	1455.2	1459.1
15°	1711.5	1717.2	1730.6	1732.5	1730.6	1717.2	1711.5	1680.9	1526.0	1459.1	1438.0
17.5°	1723.0	1724.9	1734.4	1734.4	1734.4	1724.9	1723.0	1709.6	1657.9	1568.1	1449.5
20°	1713.4	1717.2	1736.4	1740.2	1736.4	1717.2	1713.4	1696.2	1667.5	1635.0	1545.1
22.5°	1709.6	1717.2	1732.5	1730.6	1732.5	1717.2	1709.6	1682.8	1657.9	1635.0	1598.7
25°	1690.5	1690.5	1692.4	1694.3	1692.4	1690.5	1690.5	1669.4	1619.7	1614.0	1592.9
27.5°	1650.3	1654.1	1665.6	1663.7	1665.6	1654.1	1650.3	1642.6	1589.1	1583.4	1568.1
30°	1614.0	1610.1	1600.6	1592.9	1600.6	1610.1	1614.0	1602.5	1548.9	1533.6	1537.5
32.5°	1552.8	1543.2	1533.6	1527.9	1533.6	1543.2	1552.8	1548.9	1508.8	1487.7	1491.6
35°	1480.1	1482.0	1480.1	1474.4	1480.1	1482.0	1480.1	1483.9	1459.1	1439.9	1438.0
37.5°	1428.5	1432.3	1430.4	1422.7	1430.4	1432.3	1428.5	1424.6	1390.2	1384.5	1388.3
40°	1374.9	1376.8	1374.9	1369.2	1374.9	1376.8	1374.9	1367.3	1319.5	1321.4	1334.7
42.5°	1323.3	1321.4	1315.6	1311.8	1315.6	1321.4	1323.3	1311.8	1250.6	1244.9	1269.7
45°	1264.0	1265.9	1254.4	1248.7	1254.4	1265.9	1264.0	1256.3	1193.2	1177.9	1195.1
47.5°	1204.7	1204.7	1195.1	1189.4	1195.1	1204.7	1204.7	1195.1	1128.3	1113.0	1122.6
50°	1141.6	1139.8	1126.4	1124.5	1126.4	1139.8	1141.6	1136.0	1065.2	1051.8	1051.8
52.5°	1069.0	1069.0	1070.9	1074.8	1070.9	1069.0	1069.0	1070.9	1007.8	994.4	990.6
55°	1005.9	1007.8	1021.2	1025.0	1021.2	1007.8	1005.9	1005.9	948.5	935.2	927.5
57.5°	940.9	940.9	950.5	950.5	950.5	940.9	940.9	937.1	881.6	870.1	866.3
60°	866.3	870.1	877.8	875.9	877.8	870.1	866.3	862.5	814.7	807.0	793.6
62.5°	787.9	791.7	793.6	789.8	793.6	791.7	787.9	776.4	747.7	742.0	724.8
65°	705.7	709.5	711.4	707.6	711.4	709.5	705.7	699.9	678.9	669.3	654.0
67.5°	621.5	619.6	617.7	625.4	617.7	619.6	621.5	613.9	600.5	592.8	571.8
70°	535.5	535.5	533.6	537.4	533.6	535.5	535.5	529.7	522.1	516.3	497.2
72.5°	443.7	441.8	449.4	443.7	449.4	441.8	443.7	441.8	437.9	432.2	413.1
75°	353.8	357.6	353.8	359.5	353.8	357.6	353.8	355.7	353.8	350.0	336.6
77.5°	269.6	273.5	269.6	269.6	269.6	273.5	269.6	271.6	271.6	271.6	260.1
80°	191.2	189.3	189.3	187.4	189.3	189.3	191.2	191.2	193.2	189.3	185.5
82.5°	122.4	120.5	120.5	124.3	120.5	120.5	122.4	124.3	120.5	120.5	120.5
85°	66.9	68.8	65.0	65.0	65.0	68.8	66.9	63.1	66.9	66.9	65.0
87.5°	24.9	22.9	22.9	22.9	22.9	22.9	24.9	26.8	26.8	26.8	28.7
90°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	20.0	26.6	29.9	25.7
92.5°	74.9	71.9	60.0	48.1	60.0	71.9	74.9	106.1	147.8	168.7	148.1
95°	254.3	245.3	209.1	173.1	209.1	245.3	254.3	333.9	440.0	493.1	416.4
97.5°	586.9	569.7	501.0	432.4	501.0	569.7	586.9	637.2	704.3	737.9	610.1
100°	824.1	803.7	721.9	640.1	721.9	803.7	824.1	820.5	815.6	813.1	671.3
102.5°	1026.8	1009.3	939.2	869.1	939.2	1009.3	1026.8	962.7	877.2	834.5	690.7
105°	1263.3	1253.9	1216.2	1178.5	1216.2	1253.9	1263.3	1119.6	927.9	832.1	692.9
107.5°	1386.3	1388.6	1397.7	1406.8	1397.7	1388.6	1386.3	1185.8	918.4	784.7	662.0
110°	1417.7	1427.6	1466.8	1506.1	1466.8	1427.6	1417.7	1193.6	894.8	745.4	634.6

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1397.7	1412.8	1473.0	1533.3	1473.0	1412.8	1397.7	1168.3	862.4	709.5	610.8
115°	1329.5	1350.3	1433.9	1517.5	1433.9	1350.3	1329.5	1108.5	813.9	666.6	583.5
117.5°	1235.3	1258.4	1351.2	1443.9	1351.2	1258.4	1235.3	1035.8	769.9	636.9	566.3
120°	1171.8	1194.3	1284.4	1374.4	1284.4	1194.3	1171.8	989.6	746.6	625.2	560.5
122.5°	1108.4	1130.6	1219.4	1308.3	1219.4	1130.6	1108.4	944.3	725.5	616.1	557.5
125°	1024.5	1044.9	1126.7	1208.5	1126.7	1044.9	1024.5	885.1	699.2	606.2	555.0
127.5°	957.1	974.3	1043.3	1112.3	1043.3	974.3	957.1	837.3	677.7	597.9	553.5
130°	914.4	930.4	994.2	1057.9	994.2	930.4	914.4	807.9	665.8	594.8	554.4
132.5°	878.2	892.4	949.6	1006.7	949.6	892.4	878.2	782.8	655.7	592.1	555.0
135°	826.9	839.3	888.5	937.7	888.5	839.3	826.9	747.1	640.6	587.3	554.4
137.5°	789.1	799.2	839.5	879.8	839.5	799.2	789.1	721.6	631.6	586.5	557.8
140°	758.7	768.1	805.8	843.5	805.8	768.1	758.7	700.4	622.7	583.8	558.4
142.5°	737.5	745.6	778.0	810.4	778.0	745.6	737.5	686.3	617.9	583.8	560.4
145°	705.6	711.7	736.3	760.7	736.3	711.7	705.6	663.7	607.8	579.8	560.5
147.5°	678.7	683.8	704.1	724.5	704.1	683.8	678.7	645.7	601.8	579.8	564.3
150°	663.4	667.5	684.0	700.4	684.0	667.5	663.4	635.6	598.4	579.8	566.4
152.5°	651.2	654.3	666.8	679.2	666.8	654.3	651.2	627.4	595.7	579.8	567.7
155°	636.5	638.6	646.9	655.1	646.9	638.6	636.5	617.6	592.5	579.8	570.6
157.5°	623.9	625.4	631.2	636.9	631.2	625.4	623.9	609.2	589.6	579.8	573.4
160°	617.6	618.5	621.8	625.2	621.8	618.5	617.6	605.0	588.2	579.8	574.8
162.5°	611.8	612.5	615.7	618.8	615.7	612.5	611.8	601.2	586.9	579.8	576.2
165°	602.7	603.5	606.8	610.1	606.8	603.5	602.7	595.0	584.9	579.8	578.1
167.5°	598.8	599.2	600.5	601.9	600.5	599.2	598.8	593.8	587.1	583.8	582.3
170°	598.8	598.8	598.8	598.8	598.8	598.8	598.8	593.8	587.1	583.8	583.7
172.5°	595.6	595.3	594.1	592.8	594.1	595.3	595.6	591.7	586.4	583.8	583.8
175°	591.2	591.2	591.2	591.2	591.2	591.2	591.2	588.7	585.4	583.8	584.5
177.5°	590.4	590.1	588.7	587.3	588.7	590.1	590.4	588.4	585.9	584.5	585.1
180°	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2021.3	2021.3	2021.3	2021.3	2021.3
2.5°	1996.4	2006.0	2011.7	2019.4	2038.5
5°	1919.9	1956.3	1967.7	1996.4	2030.9
7.5°	1751.6	1862.6	1893.2	1962.0	2015.6
10°	1589.1	1700.0	1753.6	1916.1	1996.4
12.5°	1506.9	1571.9	1608.2	1835.8	1969.7
15°	1455.2	1501.1	1527.9	1728.7	1939.1
17.5°	1415.1	1447.6	1466.7	1623.5	1897.0
20°	1390.2	1405.5	1422.7	1547.0	1849.2
22.5°	1373.0	1363.4	1376.8	1493.5	1784.2
25°	1361.5	1325.2	1340.5	1451.4	1707.7
27.5°	1371.1	1290.8	1296.5	1413.2	1627.3
30°	1373.0	1248.7	1250.6	1373.0	1537.5
32.5°	1359.6	1204.7	1206.6	1323.3	1436.1
35°	1327.1	1153.1	1151.2	1265.9	1298.4
37.5°	1283.1	1097.7	1097.7	1202.8	1147.3
40°	1229.6	1042.3	1048.0	1120.7	1013.6
42.5°	1164.5	983.0	990.6	1011.7	914.1
45°	1093.9	925.6	931.3	854.8	837.6
47.5°	1015.5	866.3	868.2	709.5	812.8
50°	921.8	805.1	797.5	608.1	810.9
52.5°	839.5	738.2	715.2	550.8	736.3
55°	759.2	667.4	617.7	506.8	682.7
57.5°	688.5	575.6	527.8	455.1	671.2
60°	623.4	485.7	449.4	399.7	615.8
62.5°	569.9	418.8	411.2	361.4	558.4
65°	512.5	372.9	371.0	328.9	474.3
67.5°	457.1	342.3	340.4	298.3	361.4
70°	397.8	309.8	306.0	265.8	267.7
72.5°	336.6	273.5	269.6	239.0	221.8
75°	275.4	231.4	229.5	208.5	179.8
77.5°	216.1	183.6	187.4	168.3	132.0
80°	154.9	133.9	137.7	120.5	99.4
82.5°	103.3	88.0	91.8	76.5	66.9
85°	57.4	49.7	51.6	40.2	30.6
87.5°	26.8	22.9	22.9	15.3	9.6
90°	17.3	11.0	10.2	7.1	3.9
92.5°	107.0	76.1	69.4	42.6	15.8
95°	263.1	148.2	136.0	86.9	37.9
97.5°	354.5	162.7	151.9	108.6	65.4
100°	387.7	175.0	165.1	125.9	86.7
102.5°	402.9	187.2	178.0	141.5	104.9
105°	414.3	205.4	197.6	166.6	135.6
107.5°	416.3	232.2	224.9	196.0	167.1
110°	413.3	247.2	240.7	214.5	188.4

TEST NUMBER: P934348

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	413.4	265.2	259.0	234.2	209.3
115°	417.2	292.5	286.8	263.8	240.9
117.5°	424.9	318.9	313.6	292.8	271.9
120°	431.2	334.3	329.4	309.7	290.1
122.5°	440.2	352.4	347.4	327.6	307.8
125°	452.5	375.6	371.1	353.0	335.1
127.5°	464.7	398.1	393.5	375.3	357.1
130°	473.6	413.1	408.2	388.5	368.9
132.5°	480.9	425.3	420.4	400.7	381.1
135°	488.7	439.5	435.0	417.2	399.3
137.5°	500.6	457.6	453.2	435.5	417.9
140°	507.8	469.9	465.8	449.5	433.2
142.5°	513.9	478.9	475.1	460.0	445.0
145°	521.8	492.7	489.5	476.3	463.2
147.5°	533.3	510.0	506.9	494.1	481.3
150°	539.4	519.1	516.2	504.7	493.1
152.5°	543.3	525.0	522.8	514.1	505.3
155°	552.0	538.0	536.4	529.9	523.4
157.5°	560.6	551.1	549.4	543.1	536.8
160°	564.6	557.0	555.7	550.9	545.9
162.5°	568.8	563.3	562.3	558.7	555.0
165°	574.8	572.3	571.4	568.2	564.8
167.5°	579.5	577.4	577.1	575.4	573.9
170°	583.5	583.4	583.0	581.4	579.8
172.5°	583.8	583.8	583.7	583.4	583.0
175°	586.1	587.3	587.3	587.3	587.3
177.5°	586.3	587.3	587.3	587.3	587.3
180°	587.3	587.3	587.3	587.3	587.3

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CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-6500K

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	13.29	14.22	14.17	15.13	16.28	16.12	17.06	17.01	17.97	19.12
	3H	13.77	14.61	14.67	15.53	16.70	17.48	18.32	18.38	19.23	20.41
	4H	13.96	14.76	14.88	15.68	16.87	17.93	18.72	18.84	19.64	20.83
	6H	14.09	14.82	15.01	15.75	16.95	18.22	18.95	19.14	19.88	21.08
	8H	14.09	14.79	15.02	15.73	16.93	18.30	18.99	19.23	19.94	21.14
	12H	14.06	14.73	15.00	15.67	16.89	18.34	19.00	19.28	19.94	21.17
4H	2H	14.33	15.12	15.25	16.05	17.23	16.54	17.34	17.46	18.26	19.45
	3H	15.36	16.03	16.29	16.98	18.18	18.06	18.72	18.99	19.67	20.87
	4H	15.64	16.25	16.58	17.19	18.42	18.59	19.19	19.53	20.14	21.37
	6H	15.77	16.29	16.73	17.26	18.49	18.96	19.48	19.92	20.45	21.68
	8H	15.78	16.27	16.74	17.23	18.47	19.07	19.56	20.03	20.52	21.76
	12H	15.75	16.19	16.73	17.17	18.42	19.13	19.57	20.11	20.55	21.80
8H	4H	16.10	16.59	17.06	17.56	18.80	18.72	19.21	19.68	20.17	21.41
	6H	16.37	16.77	17.35	17.78	19.02	19.16	19.56	20.14	20.57	21.81
	8H	16.41	16.77	17.40	17.76	19.02	19.32	19.67	20.31	20.67	21.93
	12H	16.40	16.71	17.39	17.70	19.01	19.42	19.73	20.41	20.72	22.03
12H	4H	16.11	16.55	17.09	17.54	18.78	18.69	19.13	19.66	20.11	21.36
	6H	16.43	16.79	17.42	17.78	19.04	19.16	19.52	20.15	20.51	21.77
	8H	16.50	16.81	17.50	17.80	19.11	19.33	19.64	20.32	20.63	21.93