

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: P934345

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934345
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-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

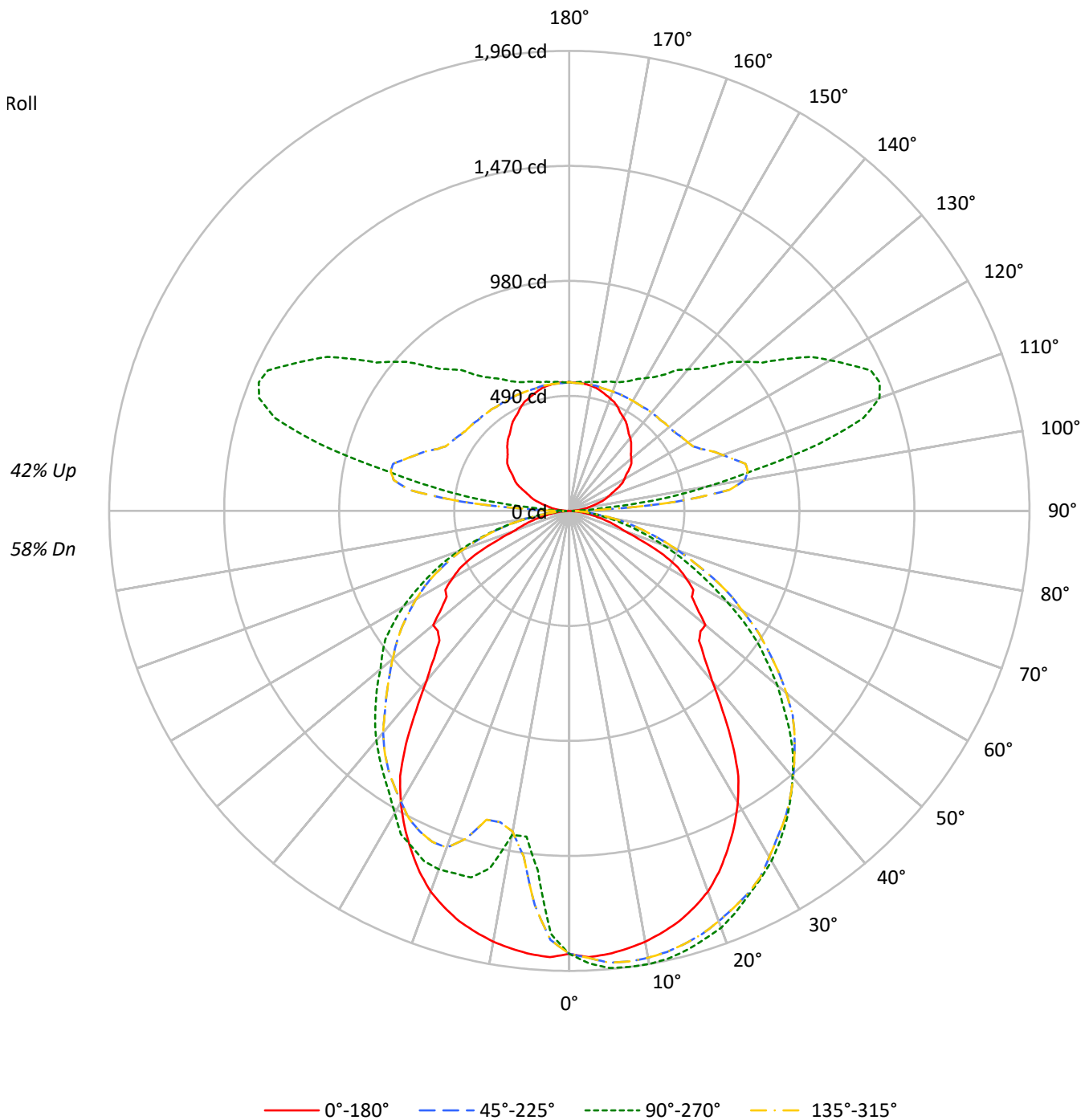
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8448.7 lumens
Efficiency: N/A
Efficacy: 116.1 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°	8754	8754	8754	8754
5°	8820	8837	8820	6949
10°	8761	8705	8761	6223
15°	8665	8517	8665	7111
20°	8484	8293	8484	7126
25°	8113	7967	8113	6975
30°	7634	7697	7634	6644
35°	6806	7355	6806	6279
40°	5671	6952	5671	6004
45°	5067	6480	5067	5687
50°	5383	5917	5383	5370
55°	5065	5312	5065	5186
60°	5221	4512	5221	4750
65°	4733	3729	4733	4169
70°	3277	2972	3277	3495
75°	2874	2197	2874	2631
80°	2315	1453	2315	1582
85°	1332	769	1332	654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7766 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	2.0
10°-20°	483.6	5.7
20°-30°	747.6	8.8
30°-40°	892.4	10.6
40°-50°	897.7	10.6
50°-60°	781.1	9.2
60°-70°	553.8	6.6
70°-80°	293.0	3.5
80°-90°	75.1	0.9
90°-100°	267.2	3.2
100°-110°	702.6	8.3
110°-120°	728.5	8.6
120°-130°	584.4	6.9
130°-140°	458.5	5.4
140°-150°	351.9	4.2
150°-160°	253.5	3.0
160°-170°	155.1	1.8
170°-180°	52.4	0.6
0°-30°	1401.5	16.6
0°-40°	2293.9	27.2
0°-60°	3972.7	47.0
0°-90°	4894.6	57.9
90°-120°	1698.4	20.1
90°-150°	3093.2	36.6
90°-180°	3554.0	42.1
0°-180°	8448.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1887	1887	1887	1887	1887	
5°	1896	1955	1896	1537	1896	180
15°	1810	1937	1810	1617	1810	509
25°	1594	1807	1594	1582	1594	732
35°	1212	1612	1212	1376	1212	750
45°	782	1328	782	1166	782	626
55°	637	980	637	957	637	586
65°	443	591	443	660	443	423
75°	168	280	168	336	168	176
85°	29	71	29	61	29	39
90°	4	14	4	14	4	4
95°	35	162	35	162	35	39
105°	127	1100	127	1100	127	134
115°	225	1417	225	1417	225	222
125°	313	1128	313	1128	313	278
135°	373	875	373	875	373	288
145°	432	710	432	710	432	271
155°	489	612	489	612	489	225
165°	527	570	527	570	527	149
175°	548	552	548	552	548	52
180°	548	548	548	548	548	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1903.0	1903.0	1913.7	1917.3	1917.3	1911.9	1906.5	1911.9	1928.0	1933.3	1931.5
5°	1895.8	1910.1	1929.8	1933.3	1936.9	1935.1	1931.5	1935.1	1953.0	1956.5	1958.3
7.5°	1881.6	1908.3	1933.3	1938.7	1944.0	1938.7	1936.9	1940.5	1958.3	1961.9	1961.9
10°	1863.7	1901.2	1929.8	1933.3	1938.7	1933.3	1933.3	1940.5	1958.3	1961.9	1963.7
12.5°	1838.7	1890.5	1917.3	1920.8	1928.0	1926.2	1924.4	1931.5	1949.4	1953.0	1953.0
15°	1810.1	1870.8	1895.8	1899.4	1911.9	1908.3	1908.3	1915.5	1935.1	1940.5	1938.7
17.5°	1770.9	1845.8	1874.4	1879.8	1888.7	1886.9	1888.7	1895.8	1913.7	1917.3	1919.0
20°	1726.2	1811.9	1845.8	1851.2	1860.1	1860.1	1860.1	1869.1	1886.9	1894.1	1894.1
22.5°	1665.5	1776.2	1811.9	1815.5	1826.2	1826.2	1829.8	1842.3	1858.3	1860.1	1860.1
25°	1594.1	1736.9	1767.3	1778.0	1788.7	1794.1	1799.4	1806.6	1811.9	1810.1	1811.9
27.5°	1519.1	1687.0	1726.2	1733.4	1747.7	1753.0	1760.2	1761.9	1763.7	1769.1	1765.5
30°	1435.2	1617.3	1676.3	1683.4	1706.6	1710.2	1703.0	1706.6	1715.5	1719.1	1722.7
32.5°	1340.6	1513.8	1624.5	1640.5	1662.0	1651.3	1649.5	1654.8	1669.1	1669.1	1672.7
35°	1212.1	1433.5	1576.3	1590.6	1606.6	1594.1	1601.3	1603.1	1612.0	1617.3	1615.6
37.5°	1071.1	1363.8	1526.3	1537.0	1549.5	1533.4	1544.1	1549.5	1556.6	1553.1	1553.1
40°	946.2	1254.9	1467.4	1474.5	1485.2	1472.7	1483.4	1487.0	1490.6	1487.0	1485.2
42.5°	853.3	1135.3	1404.9	1413.8	1406.7	1415.6	1419.2	1426.3	1421.0	1413.8	1413.8
45°	781.9	1103.2	1337.1	1347.8	1337.1	1351.3	1356.7	1356.7	1340.6	1337.1	1335.3
47.5°	758.7	1039.0	1269.2	1269.2	1263.9	1281.7	1290.6	1278.1	1262.1	1256.7	1256.7
50°	756.9	967.6	1176.4	1169.2	1194.2	1215.7	1206.7	1194.2	1181.7	1162.1	1162.1
52.5°	687.3	880.1	1056.9	1083.6	1122.8	1135.3	1121.0	1108.5	1087.1	1078.2	1071.1
55°	637.3	789.1	948.0	1001.5	1042.6	1058.6	1031.9	1019.4	987.2	981.9	978.3
57.5°	626.6	657.0	848.0	915.8	965.8	964.0	948.0	924.8	898.0	892.6	890.8
60°	574.8	474.9	740.9	821.2	873.0	867.6	853.3	831.9	806.9	803.4	799.8
62.5°	521.3	344.6	619.5	710.5	783.7	781.9	769.4	737.3	719.5	710.5	703.4
65°	442.7	289.2	441.0	590.9	696.2	699.8	673.0	649.8	630.2	619.5	617.7
67.5°	337.4	235.7	298.1	492.7	612.3	608.8	574.8	564.1	539.1	533.8	523.1
70°	249.9	157.1	207.1	399.9	530.2	521.3	494.5	482.0	458.8	446.3	439.2
72.5°	207.1	126.8	151.7	310.6	446.3	435.6	412.4	398.1	378.5	367.8	360.6
75°	167.8	133.9	116.0	230.3	362.4	355.3	333.8	319.6	303.5	289.2	291.0
77.5°	123.2	125.0	92.8	169.6	287.4	276.7	264.2	246.4	239.2	224.9	224.9
80°	92.8	98.2	69.6	116.0	207.1	207.1	196.4	183.9	171.4	164.2	164.2
82.5°	62.5	62.5	51.8	73.2	141.0	135.7	128.5	125.0	117.8	114.3	114.3
85°	28.6	35.7	32.1	44.6	76.8	80.3	80.3	76.8	75.0	71.4	73.2
87.5°	8.9	16.1	19.6	25.0	39.3	41.1	42.8	42.8	42.8	44.6	44.6
90°	3.7	6.6	9.6	10.3	16.2	24.0	27.9	24.8	18.7	14.0	14.0
92.5°	14.7	39.7	64.8	71.1	99.9	138.3	157.5	138.0	99.1	69.9	67.1
95°	35.3	81.1	126.9	138.4	245.6	388.7	460.3	410.8	311.7	237.3	229.0
97.5°	61.1	101.4	141.8	151.9	330.9	569.5	688.8	657.5	594.8	547.9	531.8
100°	81.0	117.6	154.2	163.3	362.0	626.7	759.1	761.4	766.0	769.3	750.2
102.5°	97.9	132.1	166.2	174.8	376.2	644.7	779.0	818.9	898.7	958.5	942.2
105°	126.6	155.5	184.5	191.7	386.8	646.8	776.8	866.2	1045.2	1179.3	1170.5
107.5°	156.0	183.0	209.9	216.7	388.6	618.0	732.6	857.4	1106.9	1294.1	1296.3
110°	175.8	200.2	224.7	230.7	385.8	592.4	695.8	835.3	1114.3	1323.5	1332.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	195.4	218.6	241.8	247.6	385.9	570.2	662.3	805.1	1090.6	1304.7	1318.8
115°	224.9	246.3	267.7	273.1	389.5	544.7	622.2	759.8	1034.8	1241.1	1260.6
117.5°	253.9	273.3	292.8	297.7	396.7	528.6	594.6	718.7	967.0	1153.2	1174.8
120°	270.8	289.1	307.5	312.1	402.6	523.3	583.6	697.0	923.8	1093.9	1114.9
122.5°	287.3	305.8	324.3	328.9	411.0	520.4	575.1	677.2	881.6	1034.7	1055.4
125°	312.8	329.6	346.4	350.6	422.4	518.1	565.9	652.7	826.2	956.4	975.5
127.5°	333.4	350.4	367.3	371.6	433.8	516.7	558.2	632.7	781.7	893.4	909.5
130°	344.4	362.7	381.1	385.6	442.1	517.5	555.2	621.5	754.2	853.6	868.5
132.5°	355.8	374.1	392.5	397.0	448.9	518.1	552.7	612.1	730.8	819.8	833.1
135°	372.8	389.5	406.1	410.2	456.2	517.5	548.2	598.0	697.4	771.9	783.5
137.5°	390.1	406.6	423.1	427.2	467.3	520.8	547.5	589.6	673.7	736.7	746.1
140°	404.4	419.6	434.8	438.6	474.1	521.3	544.9	581.3	653.8	708.3	717.0
142.5°	415.4	429.4	443.5	447.0	479.7	523.2	544.9	576.8	640.6	688.5	696.1
145°	432.4	444.6	456.9	460.0	487.1	523.3	541.3	567.3	619.6	658.7	664.4
147.5°	449.3	461.2	473.2	476.1	497.8	526.8	541.3	561.8	602.8	633.6	638.3
150°	460.3	471.1	481.9	484.6	503.5	528.7	541.3	558.6	593.3	619.3	623.1
152.5°	471.7	480.0	488.1	490.1	507.2	529.9	541.3	556.1	585.6	607.9	610.8
155°	488.6	494.7	500.8	502.3	515.3	532.6	541.3	553.1	576.5	594.2	596.2
157.5°	501.1	507.0	512.9	514.4	523.3	535.3	541.3	550.4	568.7	582.4	583.8
160°	509.6	514.2	518.8	520.0	527.1	536.6	541.3	549.1	564.8	576.5	577.3
162.5°	518.1	521.6	524.9	525.8	531.0	537.9	541.3	547.9	561.2	571.1	571.8
165°	527.3	530.4	533.4	534.2	536.6	539.7	541.3	546.0	555.5	562.6	563.4
167.5°	535.8	537.2	538.7	539.1	541.0	543.6	544.9	548.1	554.3	559.0	559.3
170°	541.3	542.7	544.2	544.6	544.7	544.9	544.9	548.1	554.3	559.0	559.0
172.5°	544.2	544.6	544.9	544.9	544.9	544.9	544.9	547.4	552.4	556.0	555.7
175°	548.2	548.2	548.2	548.2	547.2	545.7	544.9	546.5	549.6	551.9	551.9
177.5°	548.2	548.2	548.2	548.2	547.4	546.2	545.7	546.9	549.3	551.2	550.8
180°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1935.1	1929.8	1935.1	1931.5	1933.3	1928.0	1911.9	1906.5	1911.9	1917.3	1917.3
5°	1958.3	1954.7	1958.3	1958.3	1956.5	1953.0	1935.1	1931.5	1935.1	1936.9	1933.3
7.5°	1965.5	1960.1	1965.5	1961.9	1961.9	1958.3	1940.5	1936.9	1938.7	1944.0	1938.7
10°	1965.5	1960.1	1965.5	1963.7	1961.9	1958.3	1940.5	1933.3	1933.3	1938.7	1933.3
12.5°	1956.5	1953.0	1956.5	1953.0	1953.0	1949.4	1931.5	1924.4	1926.2	1928.0	1920.8
15°	1942.3	1936.9	1942.3	1938.7	1940.5	1935.1	1915.5	1908.3	1908.3	1911.9	1899.4
17.5°	1920.8	1913.7	1920.8	1919.0	1917.3	1913.7	1895.8	1888.7	1886.9	1888.7	1879.8
20°	1895.8	1890.5	1895.8	1894.1	1894.1	1886.9	1869.1	1860.1	1860.1	1860.1	1851.2
22.5°	1856.6	1851.2	1856.6	1860.1	1860.1	1858.3	1842.3	1829.8	1826.2	1826.2	1815.5
25°	1811.9	1806.6	1811.9	1811.9	1810.1	1811.9	1806.6	1799.4	1794.1	1788.7	1778.0
27.5°	1769.1	1765.5	1769.1	1765.5	1769.1	1763.7	1761.9	1760.2	1753.0	1747.7	1733.4
30°	1726.2	1722.7	1726.2	1722.7	1719.1	1715.5	1706.6	1703.0	1710.2	1706.6	1683.4
32.5°	1672.7	1669.1	1672.7	1672.7	1669.1	1669.1	1654.8	1649.5	1651.3	1662.0	1640.5
35°	1617.3	1612.0	1617.3	1615.6	1617.3	1612.0	1603.1	1601.3	1594.1	1606.6	1590.6
37.5°	1553.1	1547.7	1553.1	1553.1	1553.1	1556.6	1549.5	1544.1	1533.4	1549.5	1537.0
40°	1487.0	1479.9	1487.0	1485.2	1487.0	1490.6	1487.0	1483.4	1472.7	1485.2	1474.5
42.5°	1412.0	1410.3	1412.0	1413.8	1413.8	1421.0	1426.3	1419.2	1415.6	1406.7	1413.8
45°	1331.7	1328.1	1331.7	1335.3	1337.1	1340.6	1356.7	1356.7	1351.3	1337.1	1347.8
47.5°	1246.0	1237.1	1246.0	1256.7	1256.7	1262.1	1278.1	1290.6	1281.7	1263.9	1269.2
50°	1155.0	1156.7	1155.0	1162.1	1162.1	1181.7	1194.2	1206.7	1215.7	1194.2	1169.2
52.5°	1065.7	1064.0	1065.7	1071.1	1078.2	1087.1	1108.5	1121.0	1135.3	1122.8	1083.6
55°	976.5	980.1	976.5	978.3	981.9	987.2	1019.4	1031.9	1058.6	1042.6	1001.5
57.5°	887.3	881.9	887.3	890.8	892.6	898.0	924.8	948.0	964.0	965.8	915.8
60°	783.7	776.6	783.7	799.8	803.4	806.9	831.9	853.3	867.6	873.0	821.2
62.5°	692.7	680.2	692.7	703.4	710.5	719.5	737.3	769.4	781.9	783.7	710.5
65°	596.3	590.9	596.3	617.7	619.5	630.2	649.8	673.0	699.8	696.2	590.9
67.5°	508.8	508.8	508.8	523.1	533.8	539.1	564.1	574.8	608.8	612.3	492.7
70°	428.5	426.7	428.5	439.2	446.3	458.8	482.0	494.5	521.3	530.2	399.9
72.5°	351.7	349.9	351.7	360.6	367.8	378.5	398.1	412.4	435.6	446.3	310.6
75°	283.9	280.3	283.9	291.0	289.2	303.5	319.6	333.8	355.3	362.4	230.3
77.5°	217.8	217.8	217.8	224.9	224.9	239.2	246.4	264.2	276.7	287.4	169.6
80°	162.5	160.7	162.5	164.2	164.2	171.4	183.9	196.4	207.1	207.1	116.0
82.5°	114.3	110.7	114.3	114.3	114.3	117.8	125.0	128.5	135.7	141.0	73.2
85°	71.4	71.4	71.4	73.2	71.4	75.0	76.8	80.3	80.3	76.8	44.6
87.5°	46.4	44.6	46.4	44.6	44.6	42.8	42.8	42.8	41.1	39.3	25.0
90°	14.0	14.0	14.0	14.0	14.0	18.7	24.8	27.9	24.0	16.2	10.3
92.5°	56.0	44.9	56.0	67.1	69.9	99.1	138.0	157.5	138.3	99.9	71.1
95°	195.2	161.6	195.2	229.0	237.3	311.7	410.8	460.3	388.7	245.6	138.4
97.5°	467.7	403.6	467.7	531.8	547.9	594.8	657.5	688.8	569.5	330.9	151.9
100°	673.9	597.5	673.9	750.2	769.3	766.0	761.4	759.1	626.7	362.0	163.3
102.5°	876.7	811.3	876.7	942.2	958.5	898.7	818.9	779.0	644.7	376.2	174.8
105°	1135.3	1100.2	1135.3	1170.5	1179.3	1045.2	866.2	776.8	646.8	386.8	191.7
107.5°	1304.7	1313.2	1304.7	1296.3	1294.1	1106.9	857.4	732.6	618.0	388.6	216.7
110°	1369.3	1406.0	1369.3	1332.7	1323.5	1114.3	835.3	695.8	592.4	385.8	230.7



TEST NUMBER: P934345

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1375.1	1431.3	1375.1	1318.8	1304.7	1090.6	805.1	662.3	570.2	385.9	247.6
115°	1338.6	1416.6	1338.6	1260.6	1241.1	1034.8	759.8	622.2	544.7	389.5	273.1
117.5°	1261.4	1347.9	1261.4	1174.8	1153.2	967.0	718.7	594.6	528.6	396.7	297.7
120°	1199.0	1283.1	1199.0	1114.9	1093.9	923.8	697.0	583.6	523.3	402.6	312.1
122.5°	1138.4	1221.3	1138.4	1055.4	1034.7	881.6	677.2	575.1	520.4	411.0	328.9
125°	1051.8	1128.2	1051.8	975.5	956.4	826.2	652.7	565.9	518.1	422.4	350.6
127.5°	973.9	1038.4	973.9	909.5	893.4	781.7	632.7	558.2	516.7	433.8	371.6
130°	928.1	987.6	928.1	868.5	853.6	754.2	621.5	555.2	517.5	442.1	385.6
132.5°	886.5	939.8	886.5	833.1	819.8	730.8	612.1	552.7	518.1	448.9	397.0
135°	829.4	875.4	829.4	783.5	771.9	697.4	598.0	548.2	517.5	456.2	410.2
137.5°	783.7	821.3	783.7	746.1	736.7	673.7	589.6	547.5	520.8	467.3	427.2
140°	752.2	787.4	752.2	717.0	708.3	653.8	581.3	544.9	521.3	474.1	438.6
142.5°	726.2	756.5	726.2	696.1	688.5	640.6	576.8	544.9	523.2	479.7	447.0
145°	687.3	710.2	687.3	664.4	658.7	619.6	567.3	541.3	523.3	487.1	460.0
147.5°	657.3	676.3	657.3	638.3	633.6	602.8	561.8	541.3	526.8	497.8	476.1
150°	638.5	653.8	638.5	623.1	619.3	593.3	558.6	541.3	528.7	503.5	484.6
152.5°	622.4	634.0	622.4	610.8	607.9	585.6	556.1	541.3	529.9	507.2	490.1
155°	603.9	611.5	603.9	596.2	594.2	576.5	553.1	541.3	532.6	515.3	502.3
157.5°	589.2	594.6	589.2	583.8	582.4	568.7	550.4	541.3	535.3	523.3	514.4
160°	580.5	583.6	580.5	577.3	576.5	564.8	549.1	541.3	536.6	527.1	520.0
162.5°	574.8	577.7	574.8	571.8	571.1	561.2	547.9	541.3	537.9	531.0	525.8
165°	566.5	569.6	566.5	563.4	562.6	555.5	546.0	541.3	539.7	536.6	534.2
167.5°	560.6	561.9	560.6	559.3	559.0	554.3	548.1	544.9	543.6	541.0	539.1
170°	559.0	559.0	559.0	559.0	559.0	554.3	548.1	544.9	544.9	544.7	544.6
172.5°	554.6	553.4	554.6	555.7	556.0	552.4	547.4	544.9	544.9	544.9	544.9
175°	551.9	551.9	551.9	551.9	551.9	549.6	546.5	544.9	545.7	547.2	548.2
177.5°	549.6	548.2	549.6	550.8	551.2	549.3	546.9	545.7	546.2	547.4	548.2
180°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2



TEST NUMBER: P934345

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1913.7	1903.0	1903.0	1885.1	1878.0	1872.6	1863.7	1836.9	1829.8	1822.6	1833.4
5°	1929.8	1910.1	1895.8	1863.7	1836.9	1826.2	1792.3	1728.0	1685.2	1653.0	1635.2
7.5°	1933.3	1908.3	1881.6	1831.6	1767.3	1738.7	1635.2	1517.4	1485.2	1456.7	1438.8
10°	1929.8	1901.2	1863.7	1788.7	1637.0	1587.0	1483.4	1406.7	1387.0	1381.7	1387.0
12.5°	1917.3	1890.5	1838.7	1713.7	1501.3	1467.4	1406.7	1362.0	1358.5	1367.4	1415.6
15°	1895.8	1870.8	1810.1	1613.8	1426.3	1401.3	1358.5	1342.4	1362.0	1424.5	1569.1
17.5°	1874.4	1845.8	1770.9	1515.6	1369.2	1351.3	1321.0	1353.1	1463.8	1547.7	1595.9
20°	1845.8	1811.9	1726.2	1444.2	1328.1	1312.1	1297.8	1442.4	1526.3	1556.6	1583.4
22.5°	1811.9	1776.2	1665.5	1394.2	1285.3	1272.8	1281.7	1492.4	1526.3	1547.7	1570.9
25°	1767.3	1736.9	1594.1	1354.9	1251.4	1237.1	1271.0	1487.0	1506.7	1512.0	1558.4
27.5°	1726.2	1687.0	1519.1	1319.2	1210.3	1204.9	1279.9	1463.8	1478.1	1483.4	1533.4
30°	1676.3	1617.3	1435.2	1281.7	1167.5	1165.7	1281.7	1435.2	1431.7	1446.0	1495.9
32.5°	1624.5	1513.8	1340.6	1235.3	1126.4	1124.6	1269.2	1392.4	1388.8	1408.5	1446.0
35°	1576.3	1433.5	1212.1	1181.7	1074.6	1076.4	1238.9	1342.4	1344.2	1362.0	1385.3
37.5°	1526.3	1363.8	1071.1	1122.8	1024.7	1024.7	1197.8	1296.0	1292.4	1297.8	1329.9
40°	1467.4	1254.9	946.2	1046.2	978.3	973.0	1147.8	1246.0	1233.5	1231.7	1276.4
42.5°	1404.9	1135.3	853.3	944.4	924.8	917.6	1087.1	1185.3	1162.1	1167.5	1224.6
45°	1337.1	1103.2	781.9	798.0	869.4	864.1	1021.2	1115.7	1099.6	1113.9	1172.8
47.5°	1269.2	1039.0	758.7	662.3	810.5	808.7	948.0	1047.9	1039.0	1053.3	1115.7
50°	1176.4	967.6	756.9	567.7	744.4	751.6	860.5	981.9	981.9	994.4	1060.4
52.5°	1056.9	880.1	687.3	514.1	667.7	689.1	783.7	924.8	928.3	940.8	999.7
55°	948.0	789.1	637.3	473.1	576.6	623.0	708.7	865.8	873.0	885.5	939.0
57.5°	848.0	657.0	626.6	424.9	492.7	537.4	642.7	808.7	812.3	823.0	874.8
60°	740.9	474.9	574.8	373.1	419.5	453.5	582.0	740.9	753.4	760.5	805.1
62.5°	619.5	344.6	521.3	337.4	383.8	391.0	532.0	676.6	692.7	698.0	724.8
65°	441.0	289.2	442.7	307.1	346.3	348.1	478.4	610.6	624.8	633.8	653.4
67.5°	298.1	235.7	337.4	278.5	317.8	319.6	426.7	533.8	553.4	560.6	573.1
70°	207.1	157.1	249.9	248.1	285.6	289.2	371.3	464.2	482.0	487.4	494.5
72.5°	151.7	126.8	207.1	223.2	251.7	255.3	314.2	385.6	403.5	408.8	412.4
75°	116.0	133.9	167.8	194.6	214.2	216.0	257.1	314.2	326.7	330.3	332.1
77.5°	92.8	125.0	123.2	157.1	175.0	171.4	201.7	242.8	253.5	253.5	253.5
80°	69.6	98.2	92.8	112.5	128.5	125.0	144.6	173.2	176.7	180.3	178.5
82.5°	51.8	62.5	62.5	71.4	85.7	82.1	96.4	112.5	112.5	112.5	116.0
85°	32.1	35.7	28.6	37.5	48.2	46.4	53.6	60.7	62.5	62.5	58.9
87.5°	19.6	16.1	8.9	14.3	21.4	21.4	25.0	26.8	25.0	25.0	25.0
90°	9.6	6.6	3.7	6.6	9.6	10.3	16.2	24.0	27.9	24.8	18.7
92.5°	64.8	39.7	14.7	39.7	64.8	71.1	99.9	138.3	157.5	138.0	99.1
95°	126.9	81.1	35.3	81.1	126.9	138.4	245.6	388.7	460.3	410.8	311.7
97.5°	141.8	101.4	61.1	101.4	141.8	151.9	330.9	569.5	688.8	657.5	594.8
100°	154.2	117.6	81.0	117.6	154.2	163.3	362.0	626.7	759.1	761.4	766.0
102.5°	166.2	132.1	97.9	132.1	166.2	174.8	376.2	644.7	779.0	818.9	898.7
105°	184.5	155.5	126.6	155.5	184.5	191.7	386.8	646.8	776.8	866.2	1045.2
107.5°	209.9	183.0	156.0	183.0	209.9	216.7	388.6	618.0	732.6	857.4	1106.9
110°	224.7	200.2	175.8	200.2	224.7	230.7	385.8	592.4	695.8	835.3	1114.3



TEST NUMBER: P934345

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	241.8	218.6	195.4	218.6	241.8	247.6	385.9	570.2	662.3	805.1	1090.6
115°	267.7	246.3	224.9	246.3	267.7	273.1	389.5	544.7	622.2	759.8	1034.8
117.5°	292.8	273.3	253.9	273.3	292.8	297.7	396.7	528.6	594.6	718.7	967.0
120°	307.5	289.1	270.8	289.1	307.5	312.1	402.6	523.3	583.6	697.0	923.8
122.5°	324.3	305.8	287.3	305.8	324.3	328.9	411.0	520.4	575.1	677.2	881.6
125°	346.4	329.6	312.8	329.6	346.4	350.6	422.4	518.1	565.9	652.7	826.2
127.5°	367.3	350.4	333.4	350.4	367.3	371.6	433.8	516.7	558.2	632.7	781.7
130°	381.1	362.7	344.4	362.7	381.1	385.6	442.1	517.5	555.2	621.5	754.2
132.5°	392.5	374.1	355.8	374.1	392.5	397.0	448.9	518.1	552.7	612.1	730.8
135°	406.1	389.5	372.8	389.5	406.1	410.2	456.2	517.5	548.2	598.0	697.4
137.5°	423.1	406.6	390.1	406.6	423.1	427.2	467.3	520.8	547.5	589.6	673.7
140°	434.8	419.6	404.4	419.6	434.8	438.6	474.1	521.3	544.9	581.3	653.8
142.5°	443.5	429.4	415.4	429.4	443.5	447.0	479.7	523.2	544.9	576.8	640.6
145°	456.9	444.6	432.4	444.6	456.9	460.0	487.1	523.3	541.3	567.3	619.6
147.5°	473.2	461.2	449.3	461.2	473.2	476.1	497.8	526.8	541.3	561.8	602.8
150°	481.9	471.1	460.3	471.1	481.9	484.6	503.5	528.7	541.3	558.6	593.3
152.5°	488.1	480.0	471.7	480.0	488.1	490.1	507.2	529.9	541.3	556.1	585.6
155°	500.8	494.7	488.6	494.7	500.8	502.3	515.3	532.6	541.3	553.1	576.5
157.5°	512.9	507.0	501.1	507.0	512.9	514.4	523.3	535.3	541.3	550.4	568.7
160°	518.8	514.2	509.6	514.2	518.8	520.0	527.1	536.6	541.3	549.1	564.8
162.5°	524.9	521.6	518.1	521.6	524.9	525.8	531.0	537.9	541.3	547.9	561.2
165°	533.4	530.4	527.3	530.4	533.4	534.2	536.6	539.7	541.3	546.0	555.5
167.5°	538.7	537.2	535.8	537.2	538.7	539.1	541.0	543.6	544.9	548.1	554.3
170°	544.2	542.7	541.3	542.7	544.2	544.6	544.7	544.9	544.9	548.1	554.3
172.5°	544.9	544.6	544.2	544.6	544.9	544.9	544.9	544.9	544.9	547.4	552.4
175°	548.2	548.2	548.2	548.2	548.2	548.2	547.2	545.7	544.9	546.5	549.6
177.5°	548.2	548.2	548.2	548.2	548.2	548.2	547.4	546.2	545.7	546.9	549.3
180°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2



TEST NUMBER: P934345

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1820.9	1815.5	1822.6	1803.0	1822.6	1815.5	1820.9	1833.4	1822.6	1829.8	1836.9
5°	1597.7	1588.8	1560.2	1537.0	1560.2	1588.8	1597.7	1635.2	1653.0	1685.2	1728.0
7.5°	1428.1	1421.0	1413.8	1399.5	1413.8	1421.0	1428.1	1438.8	1456.7	1485.2	1517.4
10°	1390.6	1392.4	1403.1	1401.3	1403.1	1392.4	1390.6	1387.0	1381.7	1387.0	1406.7
12.5°	1487.0	1503.1	1562.0	1558.4	1562.0	1503.1	1487.0	1415.6	1367.4	1358.5	1362.0
15°	1597.7	1603.1	1615.6	1617.3	1615.6	1603.1	1597.7	1569.1	1424.5	1362.0	1342.4
17.5°	1608.4	1610.2	1619.1	1619.1	1619.1	1610.2	1608.4	1595.9	1547.7	1463.8	1353.1
20°	1599.5	1603.1	1620.9	1624.5	1620.9	1603.1	1599.5	1583.4	1556.6	1526.3	1442.4
22.5°	1595.9	1603.1	1617.3	1615.6	1617.3	1603.1	1595.9	1570.9	1547.7	1526.3	1492.4
25°	1578.1	1578.1	1579.8	1581.6	1579.8	1578.1	1578.1	1558.4	1512.0	1506.7	1487.0
27.5°	1540.6	1544.1	1554.9	1553.1	1554.9	1544.1	1540.6	1533.4	1483.4	1478.1	1463.8
30°	1506.7	1503.1	1494.2	1487.0	1494.2	1503.1	1506.7	1495.9	1446.0	1431.7	1435.2
32.5°	1449.5	1440.6	1431.7	1426.3	1431.7	1440.6	1449.5	1446.0	1408.5	1388.8	1392.4
35°	1381.7	1383.5	1381.7	1376.3	1381.7	1383.5	1381.7	1385.3	1362.0	1344.2	1342.4
37.5°	1333.5	1337.1	1335.3	1328.1	1335.3	1337.1	1333.5	1329.9	1297.8	1292.4	1296.0
40°	1283.5	1285.3	1283.5	1278.1	1283.5	1285.3	1283.5	1276.4	1231.7	1233.5	1246.0
42.5°	1235.3	1233.5	1228.2	1224.6	1228.2	1233.5	1235.3	1224.6	1167.5	1162.1	1185.3
45°	1180.0	1181.7	1171.0	1165.7	1171.0	1181.7	1180.0	1172.8	1113.9	1099.6	1115.7
47.5°	1124.6	1124.6	1115.7	1110.3	1115.7	1124.6	1124.6	1115.7	1053.3	1039.0	1047.9
50°	1065.7	1064.0	1051.5	1049.7	1051.5	1064.0	1065.7	1060.4	994.4	981.9	981.9
52.5°	997.9	997.9	999.7	1003.3	999.7	997.9	997.9	999.7	940.8	928.3	924.8
55°	939.0	940.8	953.3	956.9	953.3	940.8	939.0	939.0	885.5	873.0	865.8
57.5°	878.3	878.3	887.3	887.3	887.3	878.3	878.3	874.8	823.0	812.3	808.7
60°	808.7	812.3	819.4	817.6	819.4	812.3	808.7	805.1	760.5	753.4	740.9
62.5°	735.5	739.1	740.9	737.3	740.9	739.1	735.5	724.8	698.0	692.7	676.6
65°	658.8	662.3	664.1	660.5	664.1	662.3	658.8	653.4	633.8	624.8	610.6
67.5°	580.2	578.4	576.6	583.8	576.6	578.4	580.2	573.1	560.6	553.4	533.8
70°	499.9	499.9	498.1	501.7	498.1	499.9	499.9	494.5	487.4	482.0	464.2
72.5°	414.2	412.4	419.5	414.2	419.5	412.4	414.2	412.4	408.8	403.5	385.6
75°	330.3	333.8	330.3	335.6	330.3	333.8	330.3	332.1	330.3	326.7	314.2
77.5°	251.7	255.3	251.7	251.7	251.7	255.3	251.7	253.5	253.5	253.5	242.8
80°	178.5	176.7	176.7	175.0	176.7	176.7	178.5	178.5	180.3	176.7	173.2
82.5°	114.3	112.5	112.5	116.0	112.5	112.5	114.3	116.0	112.5	112.5	112.5
85°	62.5	64.3	60.7	60.7	60.7	64.3	62.5	58.9	62.5	62.5	60.7
87.5°	23.2	21.4	21.4	21.4	21.4	21.4	23.2	25.0	25.0	25.0	26.8
90°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	18.7	24.8	27.9	24.0
92.5°	69.9	67.1	56.0	44.9	56.0	67.1	69.9	99.1	138.0	157.5	138.3
95°	237.3	229.0	195.2	161.6	195.2	229.0	237.3	311.7	410.8	460.3	388.7
97.5°	547.9	531.8	467.7	403.6	467.7	531.8	547.9	594.8	657.5	688.8	569.5
100°	769.3	750.2	673.9	597.5	673.9	750.2	769.3	766.0	761.4	759.1	626.7
102.5°	958.5	942.2	876.7	811.3	876.7	942.2	958.5	898.7	818.9	779.0	644.7
105°	1179.3	1170.5	1135.3	1100.2	1135.3	1170.5	1179.3	1045.2	866.2	776.8	646.8
107.5°	1294.1	1296.3	1304.7	1313.2	1304.7	1296.3	1294.1	1106.9	857.4	732.6	618.0
110°	1323.5	1332.7	1369.3	1406.0	1369.3	1332.7	1323.5	1114.3	835.3	695.8	592.4



TEST NUMBER: P934345

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1304.7	1318.8	1375.1	1431.3	1375.1	1318.8	1304.7	1090.6	805.1	662.3	570.2
115°	1241.1	1260.6	1338.6	1416.6	1338.6	1260.6	1241.1	1034.8	759.8	622.2	544.7
117.5°	1153.2	1174.8	1261.4	1347.9	1261.4	1174.8	1153.2	967.0	718.7	594.6	528.6
120°	1093.9	1114.9	1199.0	1283.1	1199.0	1114.9	1093.9	923.8	697.0	583.6	523.3
122.5°	1034.7	1055.4	1138.4	1221.3	1138.4	1055.4	1034.7	881.6	677.2	575.1	520.4
125°	956.4	975.5	1051.8	1128.2	1051.8	975.5	956.4	826.2	652.7	565.9	518.1
127.5°	893.4	909.5	973.9	1038.4	973.9	909.5	893.4	781.7	632.7	558.2	516.7
130°	853.6	868.5	928.1	987.6	928.1	868.5	853.6	754.2	621.5	555.2	517.5
132.5°	819.8	833.1	886.5	939.8	886.5	833.1	819.8	730.8	612.1	552.7	518.1
135°	771.9	783.5	829.4	875.4	829.4	783.5	771.9	697.4	598.0	548.2	517.5
137.5°	736.7	746.1	783.7	821.3	783.7	746.1	736.7	673.7	589.6	547.5	520.8
140°	708.3	717.0	752.2	787.4	752.2	717.0	708.3	653.8	581.3	544.9	521.3
142.5°	688.5	696.1	726.2	756.5	726.2	696.1	688.5	640.6	576.8	544.9	523.2
145°	658.7	664.4	687.3	710.2	687.3	664.4	658.7	619.6	567.3	541.3	523.3
147.5°	633.6	638.3	657.3	676.3	657.3	638.3	633.6	602.8	561.8	541.3	526.8
150°	619.3	623.1	638.5	653.8	638.5	623.1	619.3	593.3	558.6	541.3	528.7
152.5°	607.9	610.8	622.4	634.0	622.4	610.8	607.9	585.6	556.1	541.3	529.9
155°	594.2	596.2	603.9	611.5	603.9	596.2	594.2	576.5	553.1	541.3	532.6
157.5°	582.4	583.8	589.2	594.6	589.2	583.8	582.4	568.7	550.4	541.3	535.3
160°	576.5	577.3	580.5	583.6	580.5	577.3	576.5	564.8	549.1	541.3	536.6
162.5°	571.1	571.8	574.8	577.7	574.8	571.8	571.1	561.2	547.9	541.3	537.9
165°	562.6	563.4	566.5	569.6	566.5	563.4	562.6	555.5	546.0	541.3	539.7
167.5°	559.0	559.3	560.6	561.9	560.6	559.3	559.0	554.3	548.1	544.9	543.6
170°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	554.3	548.1	544.9	544.9
172.5°	556.0	555.7	554.6	553.4	554.6	555.7	556.0	552.4	547.4	544.9	544.9
175°	551.9	551.9	551.9	551.9	551.9	551.9	551.9	549.6	546.5	544.9	545.7
177.5°	551.2	550.8	549.6	548.2	549.6	550.8	551.2	549.3	546.9	545.7	546.2
180°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2



TEST NUMBER: P934345

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1863.7	1872.6	1878.0	1885.1	1903.0
5°	1792.3	1826.2	1836.9	1863.7	1895.8
7.5°	1635.2	1738.7	1767.3	1831.6	1881.6
10°	1483.4	1587.0	1637.0	1788.7	1863.7
12.5°	1406.7	1467.4	1501.3	1713.7	1838.7
15°	1358.5	1401.3	1426.3	1613.8	1810.1
17.5°	1321.0	1351.3	1369.2	1515.6	1770.9
20°	1297.8	1312.1	1328.1	1444.2	1726.2
22.5°	1281.7	1272.8	1285.3	1394.2	1665.5
25°	1271.0	1237.1	1251.4	1354.9	1594.1
27.5°	1279.9	1204.9	1210.3	1319.2	1519.1
30°	1281.7	1165.7	1167.5	1281.7	1435.2
32.5°	1269.2	1124.6	1126.4	1235.3	1340.6
35°	1238.9	1076.4	1074.6	1181.7	1212.1
37.5°	1197.8	1024.7	1024.7	1122.8	1071.1
40°	1147.8	973.0	978.3	1046.2	946.2
42.5°	1087.1	917.6	924.8	944.4	853.3
45°	1021.2	864.1	869.4	798.0	781.9
47.5°	948.0	808.7	810.5	662.3	758.7
50°	860.5	751.6	744.4	567.7	756.9
52.5°	783.7	689.1	667.7	514.1	687.3
55°	708.7	623.0	576.6	473.1	637.3
57.5°	642.7	537.4	492.7	424.9	626.6
60°	582.0	453.5	419.5	373.1	574.8
62.5°	532.0	391.0	383.8	337.4	521.3
65°	478.4	348.1	346.3	307.1	442.7
67.5°	426.7	319.6	317.8	278.5	337.4
70°	371.3	289.2	285.6	248.1	249.9
72.5°	314.2	255.3	251.7	223.2	207.1
75°	257.1	216.0	214.2	194.6	167.8
77.5°	201.7	171.4	175.0	157.1	123.2
80°	144.6	125.0	128.5	112.5	92.8
82.5°	96.4	82.1	85.7	71.4	62.5
85°	53.6	46.4	48.2	37.5	28.6
87.5°	25.0	21.4	21.4	14.3	8.9
90°	16.2	10.3	9.6	6.6	3.7
92.5°	99.9	71.1	64.8	39.7	14.7
95°	245.6	138.4	126.9	81.1	35.3
97.5°	330.9	151.9	141.8	101.4	61.1
100°	362.0	163.3	154.2	117.6	81.0
102.5°	376.2	174.8	166.2	132.1	97.9
105°	386.8	191.7	184.5	155.5	126.6
107.5°	388.6	216.7	209.9	183.0	156.0
110°	385.8	230.7	224.7	200.2	175.8



TEST NUMBER: P934345

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	385.9	247.6	241.8	218.6	195.4
115°	389.5	273.1	267.7	246.3	224.9
117.5°	396.7	297.7	292.8	273.3	253.9
120°	402.6	312.1	307.5	289.1	270.8
122.5°	411.0	328.9	324.3	305.8	287.3
125°	422.4	350.6	346.4	329.6	312.8
127.5°	433.8	371.6	367.3	350.4	333.4
130°	442.1	385.6	381.1	362.7	344.4
132.5°	448.9	397.0	392.5	374.1	355.8
135°	456.2	410.2	406.1	389.5	372.8
137.5°	467.3	427.2	423.1	406.6	390.1
140°	474.1	438.6	434.8	419.6	404.4
142.5°	479.7	447.0	443.5	429.4	415.4
145°	487.1	460.0	456.9	444.6	432.4
147.5°	497.8	476.1	473.2	461.2	449.3
150°	503.5	484.6	481.9	471.1	460.3
152.5°	507.2	490.1	488.1	480.0	471.7
155°	515.3	502.3	500.8	494.7	488.6
157.5°	523.3	514.4	512.9	507.0	501.1
160°	527.1	520.0	518.8	514.2	509.6
162.5°	531.0	525.8	524.9	521.6	518.1
165°	536.6	534.2	533.4	530.4	527.3
167.5°	541.0	539.1	538.7	537.2	535.8
170°	544.7	544.6	544.2	542.7	541.3
172.5°	544.9	544.9	544.9	544.6	544.2
175°	547.2	548.2	548.2	548.2	548.2
177.5°	547.4	548.2	548.2	548.2	548.2
180°	548.2	548.2	548.2	548.2	548.2



TEST NUMBER: P934345
 CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-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	13.05	13.98	13.93	14.89	16.04	15.88	16.82	16.77	17.73	18.88
	3H	13.53	14.37	14.43	15.29	16.46	17.24	18.08	18.14	19.00	20.17
	4H	13.72	14.52	14.64	15.44	16.63	17.69	18.48	18.60	19.40	20.59
	6H	13.85	14.58	14.77	15.51	16.71	17.98	18.71	18.90	19.64	20.84
	8H	13.85	14.55	14.78	15.49	16.69	18.06	18.75	18.99	19.70	20.90
	12H	13.82	14.49	14.76	15.43	16.65	18.10	18.76	19.04	19.70	20.93
4H	2H	14.09	14.89	15.01	15.81	16.99	16.30	17.10	17.22	18.02	19.21
	3H	15.13	15.79	16.05	16.74	17.94	17.82	18.48	18.75	19.43	20.64
	4H	15.40	16.01	16.34	16.96	18.18	18.35	18.96	19.29	19.90	21.13
	6H	15.53	16.05	16.49	17.03	18.25	18.72	19.24	19.68	20.21	21.44
	8H	15.54	16.03	16.50	16.99	18.23	18.83	19.32	19.79	20.28	21.53
	12H	15.51	15.95	16.49	16.93	18.18	18.89	19.33	19.87	20.31	21.56
8H	4H	15.87	16.35	16.82	17.32	18.56	18.48	18.97	19.44	19.93	21.17
	6H	16.13	16.53	17.11	17.54	18.78	18.92	19.33	19.91	20.33	21.57
	8H	16.17	16.53	17.16	17.52	18.78	19.08	19.43	20.07	20.43	21.69
	12H	16.16	16.47	17.16	17.46	18.77	19.18	19.49	20.17	20.48	21.79
12H	4H	15.88	16.31	16.85	17.30	18.54	18.45	18.89	19.42	19.87	21.12
	6H	16.19	16.55	17.18	17.54	18.80	18.92	19.28	19.91	20.27	21.53
	8H	16.26	16.58	17.26	17.56	18.87	19.09	19.40	20.08	20.39	21.69