

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: P934346

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934346
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-8-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

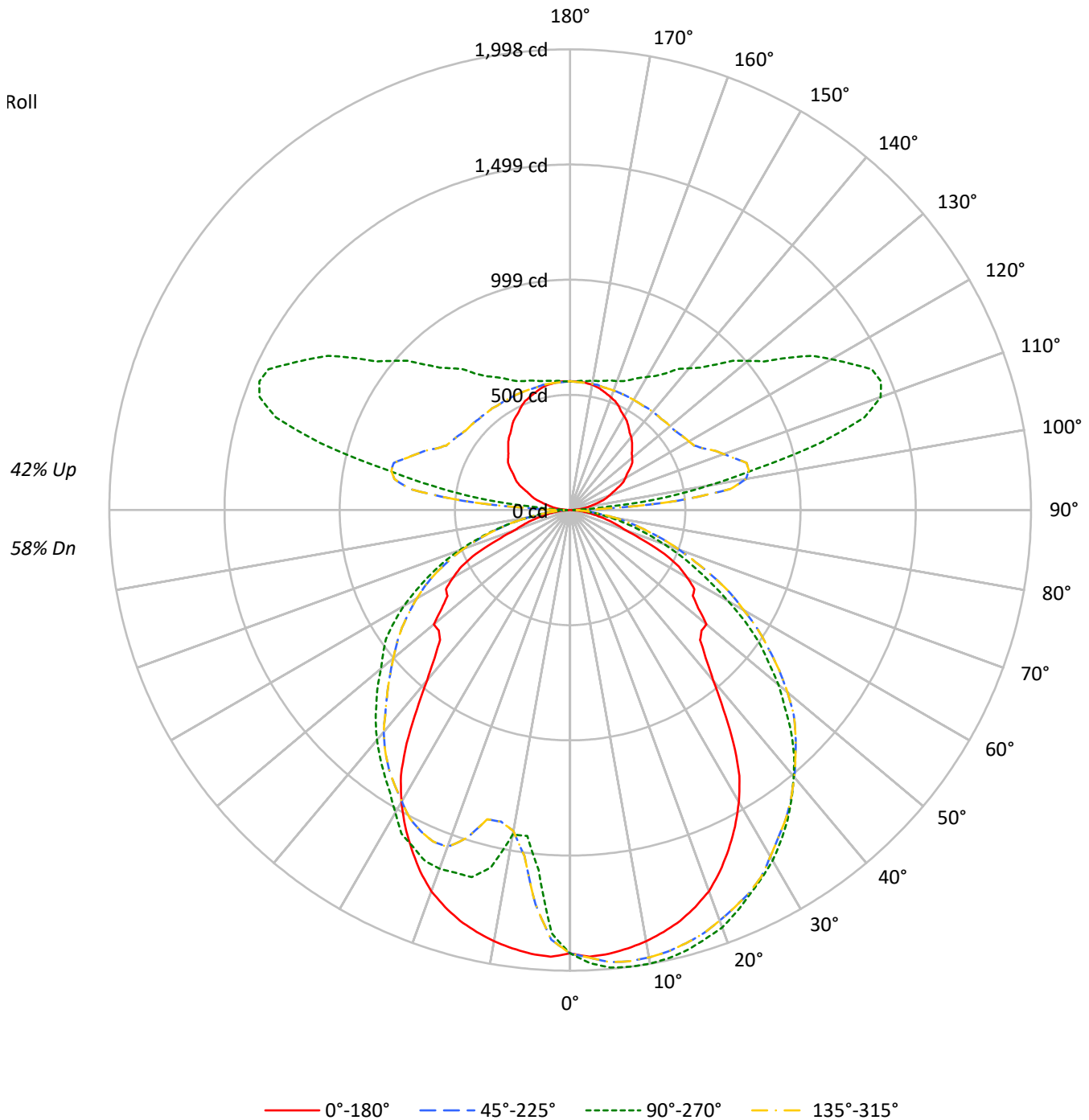
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8609.7 lumens
Efficiency: N/A
Efficacy: 118.3 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			0	
RW	70	50	30	10	70	50	30	10	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			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8922	8922	8922	8922
5°	8988	9006	8988	7081
10°	8928	8871	8928	6342
15°	8831	8679	8831	7247
20°	8646	8451	8646	7262
25°	8268	8119	8268	7108
30°	7780	7843	7780	6771
35°	6935	7495	6935	6399
40°	5779	7084	5779	6118
45°	5164	6603	5164	5796
50°	5486	6030	5486	5472
55°	5162	5413	5162	5285
60°	5321	4598	5321	4840
65°	4824	3801	4824	4248
70°	3340	3029	3340	3561
75°	2929	2239	2929	2681
80°	2360	1480	2360	1612
85°	1355	784	1355	667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7914 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	2.0
10°-20°	492.8	5.7
20°-30°	761.8	8.8
30°-40°	909.4	10.6
40°-50°	914.8	10.6
50°-60°	796.0	9.2
60°-70°	564.4	6.6
70°-80°	298.6	3.5
80°-90°	76.5	0.9
90°-100°	272.3	3.2
100°-110°	716.0	8.3
110°-120°	742.4	8.6
120°-130°	595.5	6.9
130°-140°	467.3	5.4
140°-150°	358.6	4.2
150°-160°	258.3	3.0
160°-170°	158.0	1.8
170°-180°	53.4	0.6
0°-30°	1428.2	16.6
0°-40°	2337.6	27.2
0°-60°	4048.4	47.0
0°-90°	4987.9	57.9
90°-120°	1730.7	20.1
90°-150°	3152.2	36.6
90°-180°	3622.0	42.1
0°-180°	8609.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1923	1923	1923	1923	1923	
5°	1932	1992	1932	1566	1932	183
15°	1845	1974	1845	1648	1845	519
25°	1624	1841	1624	1612	1624	746
35°	1235	1643	1235	1403	1235	764
45°	797	1353	797	1188	797	638
55°	650	999	650	975	650	597
65°	451	602	451	673	451	431
75°	171	286	171	342	171	180
85°	29	73	29	62	29	39
90°	4	14	4	14	4	4
95°	36	165	36	165	36	40
105°	129	1121	129	1121	129	137
115°	229	1444	229	1444	229	226
125°	319	1150	319	1150	319	283
135°	380	892	380	892	380	294
145°	441	724	441	724	441	276
155°	498	623	498	623	498	229
165°	537	580	537	580	537	152
175°	559	562	559	562	559	53
180°	559	559	559	559	559	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1939.3	1939.3	1950.2	1953.8	1953.8	1948.4	1942.9	1948.4	1964.7	1970.2	1968.4
5°	1932.0	1946.5	1966.5	1970.2	1973.8	1972.0	1968.4	1972.0	1990.2	1993.8	1995.7
7.5°	1917.4	1944.7	1970.2	1975.6	1981.1	1975.6	1973.8	1977.5	1995.7	1999.3	1999.3
10°	1899.2	1937.4	1966.5	1970.2	1975.6	1970.2	1970.2	1977.5	1995.7	1999.3	2001.1
12.5°	1873.8	1926.5	1953.8	1957.4	1964.7	1962.9	1961.1	1968.4	1986.6	1990.2	1990.2
15°	1844.7	1906.5	1932.0	1935.6	1948.4	1944.7	1944.7	1952.0	1972.0	1977.5	1975.6
17.5°	1804.6	1881.0	1910.1	1915.6	1924.7	1922.9	1924.7	1932.0	1950.2	1953.8	1955.6
20°	1759.1	1846.5	1881.0	1886.5	1895.6	1895.6	1895.6	1904.7	1922.9	1930.2	1930.2
22.5°	1697.3	1810.1	1846.5	1850.1	1861.0	1861.0	1864.7	1877.4	1893.8	1895.6	1895.6
25°	1624.5	1770.1	1801.0	1811.9	1822.8	1828.3	1833.7	1841.0	1846.5	1844.7	1846.5
27.5°	1548.1	1719.1	1759.1	1766.4	1781.0	1786.4	1793.7	1795.5	1797.4	1802.8	1799.2
30°	1462.6	1648.2	1708.2	1715.5	1739.1	1742.8	1735.5	1739.1	1748.2	1751.9	1755.5
32.5°	1366.2	1542.7	1655.4	1671.8	1693.7	1682.7	1680.9	1686.4	1700.9	1700.9	1704.6
35°	1235.2	1460.8	1606.3	1620.9	1637.3	1624.5	1631.8	1633.6	1642.7	1648.2	1646.4
37.5°	1091.5	1389.8	1555.4	1566.3	1579.0	1562.7	1573.6	1579.0	1586.3	1582.7	1582.7
40°	964.2	1278.9	1495.4	1502.6	1513.5	1500.8	1511.7	1515.4	1519.0	1515.4	1513.5
42.5°	869.6	1157.0	1431.7	1440.8	1433.5	1442.6	1446.2	1453.5	1448.1	1440.8	1440.8
45°	796.8	1124.2	1362.5	1373.5	1362.5	1377.1	1382.6	1382.6	1366.2	1362.5	1360.7
47.5°	773.2	1058.8	1293.4	1293.4	1288.0	1306.1	1315.2	1302.5	1286.1	1280.7	1280.7
50°	771.4	986.0	1198.8	1191.5	1217.0	1238.8	1229.7	1217.0	1204.3	1184.3	1184.3
52.5°	700.4	896.9	1077.0	1104.2	1144.2	1157.0	1142.4	1129.7	1107.8	1098.8	1091.5
55°	649.5	804.1	966.0	1020.6	1062.5	1078.8	1051.5	1038.8	1006.1	1000.6	997.0
57.5°	638.6	669.5	864.2	933.3	984.2	982.4	966.0	942.4	915.1	909.6	907.8
60°	585.8	483.9	755.0	836.9	889.6	884.2	869.6	847.8	822.3	818.7	815.0
62.5°	531.2	351.1	631.3	724.1	798.7	796.8	784.1	751.4	733.2	724.1	716.8
65°	451.2	294.7	449.4	602.2	709.5	713.2	685.9	662.2	642.2	631.3	629.5
67.5°	343.8	240.1	303.8	502.1	624.0	620.4	585.8	574.9	549.4	544.0	533.0
70°	254.7	160.1	211.0	407.5	540.3	531.2	503.9	491.2	467.6	454.8	447.5
72.5°	211.0	129.2	154.6	316.6	454.8	443.9	420.3	405.7	385.7	374.8	367.5
75°	171.0	136.4	118.3	234.7	369.3	362.0	340.2	325.7	309.3	294.7	296.5
77.5°	125.5	127.3	94.6	172.8	292.9	282.0	269.3	251.1	243.8	229.2	229.2
80°	94.6	100.1	71.0	118.3	211.0	211.0	200.1	187.4	174.7	167.4	167.4
82.5°	63.7	63.7	52.8	74.6	143.7	138.3	131.0	127.3	120.1	116.4	116.4
85°	29.1	36.4	32.7	45.5	78.2	81.9	81.9	78.2	76.4	72.8	74.6
87.5°	9.1	16.4	20.0	25.5	40.0	41.8	43.7	43.7	43.7	45.5	45.5
90°	3.7	6.7	9.7	10.5	16.5	24.5	28.5	25.3	19.0	14.3	14.3
92.5°	15.0	40.5	66.0	72.4	101.8	140.9	160.5	140.6	101.0	71.2	68.4
95°	36.0	82.7	129.4	141.0	250.3	396.1	469.1	418.6	317.6	241.9	233.3
97.5°	62.2	103.3	144.5	154.8	337.2	580.3	702.0	670.0	606.2	558.3	542.0
100°	82.5	119.8	157.1	166.5	368.9	638.7	773.6	775.9	780.6	784.0	764.5
102.5°	99.8	134.6	169.4	178.1	383.3	657.0	793.8	834.5	915.8	976.8	960.1
105°	129.0	158.5	188.0	195.4	394.1	659.1	791.6	882.7	1065.1	1201.8	1192.8
107.5°	159.0	186.5	213.9	220.9	396.1	629.7	746.5	873.7	1128.0	1318.8	1321.0
110°	179.2	204.0	229.0	235.1	393.1	603.7	709.1	851.2	1135.5	1348.7	1358.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	199.1	222.8	246.4	252.3	393.2	581.1	675.0	820.4	1111.4	1329.6	1344.0
115°	229.1	251.0	272.8	278.3	396.9	555.1	634.1	774.3	1054.5	1264.8	1284.6
117.5°	258.7	278.5	298.4	303.4	404.2	538.7	605.9	732.4	985.4	1175.2	1197.2
120°	276.0	294.6	313.4	318.0	410.2	533.2	594.7	710.2	941.4	1114.8	1136.1
122.5°	292.8	311.6	330.5	335.2	418.8	530.3	586.1	690.1	898.4	1054.5	1075.6
125°	318.7	335.8	353.0	357.3	430.4	528.0	576.7	665.1	842.0	974.6	994.1
127.5°	339.7	357.0	374.3	378.7	442.1	526.6	568.8	644.8	796.6	910.5	926.8
130°	350.9	369.6	388.3	393.0	450.5	527.4	565.8	633.4	768.6	869.9	885.1
132.5°	362.6	381.2	400.0	404.6	457.5	528.0	563.2	623.7	744.7	835.4	849.0
135°	379.9	396.9	413.8	418.1	464.9	527.4	558.7	609.4	710.7	786.7	798.4
137.5°	397.5	414.3	431.2	435.4	476.2	530.7	558.0	600.8	686.5	750.7	760.3
140°	412.1	427.6	443.1	447.0	483.1	531.2	555.3	592.4	666.3	721.8	730.7
142.5°	423.3	437.6	452.0	455.5	488.8	533.1	555.3	587.8	652.8	701.6	709.3
145°	440.6	453.1	465.6	468.7	496.4	533.2	551.6	578.2	631.4	671.2	677.0
147.5°	457.8	470.0	482.2	485.2	507.3	536.9	551.6	572.5	614.3	645.7	650.5
150°	469.1	480.1	491.1	493.8	513.1	538.8	551.6	569.3	604.6	631.1	635.0
152.5°	480.7	489.1	497.4	499.5	516.9	540.1	551.6	566.7	596.8	619.5	622.5
155°	497.9	504.1	510.3	511.9	525.1	542.8	551.6	563.6	587.5	605.5	607.5
157.5°	510.7	516.7	522.7	524.2	533.3	545.5	551.6	560.9	579.5	593.5	594.9
160°	519.3	524.0	528.7	529.9	537.1	546.8	551.6	559.6	575.5	587.5	588.4
162.5°	528.0	531.5	535.0	535.9	541.1	548.1	551.6	558.3	571.9	582.0	582.7
165°	537.3	540.5	543.6	544.4	546.8	550.0	551.6	556.4	566.1	573.3	574.2
167.5°	546.0	547.4	549.0	549.3	551.3	554.0	555.3	558.5	564.9	569.6	570.0
170°	551.6	553.1	554.6	555.0	555.1	555.2	555.3	558.5	564.9	569.6	569.6
172.5°	554.6	555.0	555.2	555.3	555.3	555.3	555.3	557.9	562.9	566.6	566.3
175°	558.7	558.7	558.7	558.7	557.6	556.1	555.3	556.9	560.1	562.4	562.4
177.5°	558.7	558.7	558.7	558.7	557.8	556.6	556.1	557.3	559.8	561.7	561.3
180°	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1972.0	1966.5	1972.0	1968.4	1970.2	1964.7	1948.4	1942.9	1948.4	1953.8	1953.8
5°	1995.7	1992.0	1995.7	1995.7	1993.8	1990.2	1972.0	1968.4	1972.0	1973.8	1970.2
7.5°	2002.9	1997.5	2002.9	1999.3	1999.3	1995.7	1977.5	1973.8	1975.6	1981.1	1975.6
10°	2002.9	1997.5	2002.9	2001.1	1999.3	1995.7	1977.5	1970.2	1970.2	1975.6	1970.2
12.5°	1993.8	1990.2	1993.8	1990.2	1990.2	1986.6	1968.4	1961.1	1962.9	1964.7	1957.4
15°	1979.3	1973.8	1979.3	1975.6	1977.5	1972.0	1952.0	1944.7	1944.7	1948.4	1935.6
17.5°	1957.4	1950.2	1957.4	1955.6	1953.8	1950.2	1932.0	1924.7	1922.9	1924.7	1915.6
20°	1932.0	1926.5	1932.0	1930.2	1930.2	1922.9	1904.7	1895.6	1895.6	1895.6	1886.5
22.5°	1892.0	1886.5	1892.0	1895.6	1895.6	1893.8	1877.4	1864.7	1861.0	1861.0	1850.1
25°	1846.5	1841.0	1846.5	1846.5	1844.7	1846.5	1841.0	1833.7	1828.3	1822.8	1811.9
27.5°	1802.8	1799.2	1802.8	1799.2	1802.8	1797.4	1795.5	1793.7	1786.4	1781.0	1766.4
30°	1759.1	1755.5	1759.1	1755.5	1751.9	1748.2	1739.1	1735.5	1742.8	1739.1	1715.5
32.5°	1704.6	1700.9	1704.6	1704.6	1700.9	1700.9	1686.4	1680.9	1682.7	1693.7	1671.8
35°	1648.2	1642.7	1648.2	1646.4	1648.2	1642.7	1633.6	1631.8	1624.5	1637.3	1620.9
37.5°	1582.7	1577.2	1582.7	1582.7	1582.7	1586.3	1579.0	1573.6	1562.7	1579.0	1566.3
40°	1515.4	1508.1	1515.4	1513.5	1515.4	1519.0	1515.4	1511.7	1500.8	1513.5	1502.6
42.5°	1439.0	1437.1	1439.0	1440.8	1440.8	1448.1	1453.5	1446.2	1442.6	1433.5	1440.8
45°	1357.1	1353.4	1357.1	1360.7	1362.5	1366.2	1382.6	1382.6	1377.1	1362.5	1373.5
47.5°	1269.8	1260.7	1269.8	1280.7	1280.7	1286.1	1302.5	1315.2	1306.1	1288.0	1293.4
50°	1177.0	1178.8	1177.0	1184.3	1184.3	1204.3	1217.0	1229.7	1238.8	1217.0	1191.5
52.5°	1086.0	1084.3	1086.0	1091.5	1098.8	1107.8	1129.7	1142.4	1157.0	1144.2	1104.2
55°	995.1	998.8	995.1	997.0	1000.6	1006.1	1038.8	1051.5	1078.8	1062.5	1020.6
57.5°	904.2	898.7	904.2	907.8	909.6	915.1	942.4	966.0	982.4	984.2	933.3
60°	798.7	791.4	798.7	815.0	818.7	822.3	847.8	869.6	884.2	889.6	836.9
62.5°	705.9	693.1	705.9	716.8	724.1	733.2	751.4	784.1	796.8	798.7	724.1
65°	607.6	602.2	607.6	629.5	631.3	642.2	662.2	685.9	713.2	709.5	602.2
67.5°	518.5	518.5	518.5	533.0	544.0	549.4	574.9	585.8	620.4	624.0	502.1
70°	436.6	434.8	436.6	447.5	454.8	467.6	491.2	503.9	531.2	540.3	407.5
72.5°	358.4	356.6	358.4	367.5	374.8	385.7	405.7	420.3	443.9	454.8	316.6
75°	289.3	285.6	289.3	296.5	294.7	309.3	325.7	340.2	362.0	369.3	234.7
77.5°	222.0	222.0	222.0	229.2	229.2	243.8	251.1	269.3	282.0	292.9	172.8
80°	165.6	163.7	165.6	167.4	167.4	174.7	187.4	200.1	211.0	211.0	118.3
82.5°	116.4	112.8	116.4	116.4	116.4	120.1	127.3	131.0	138.3	143.7	74.6
85°	72.8	72.8	72.8	74.6	72.8	76.4	78.2	81.9	81.9	78.2	45.5
87.5°	47.3	45.5	47.3	45.5	45.5	43.7	43.7	43.7	41.8	40.0	25.5
90°	14.3	14.3	14.3	14.3	14.3	19.0	25.3	28.5	24.5	16.5	10.5
92.5°	57.0	45.8	57.0	68.4	71.2	101.0	140.6	160.5	140.9	101.8	72.4
95°	198.9	164.6	198.9	233.3	241.9	317.6	418.6	469.1	396.1	250.3	141.0
97.5°	476.6	411.3	476.6	542.0	558.3	606.2	670.0	702.0	580.3	337.2	154.8
100°	686.8	608.9	686.8	764.5	784.0	780.6	775.9	773.6	638.7	368.9	166.5
102.5°	893.4	826.8	893.4	960.1	976.8	915.8	834.5	793.8	657.0	383.3	178.1
105°	1157.0	1121.1	1157.0	1192.8	1201.8	1065.1	882.7	791.6	659.1	394.1	195.4
107.5°	1329.6	1338.3	1329.6	1321.0	1318.8	1128.0	873.7	746.5	629.7	396.1	220.9
110°	1395.4	1432.8	1395.4	1358.1	1348.7	1135.5	851.2	709.1	603.7	393.1	235.1



TEST NUMBER: P934346

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1401.3	1458.6	1401.3	1344.0	1329.6	1111.4	820.4	675.0	581.1	393.2	252.3
115°	1364.1	1443.6	1364.1	1284.6	1264.8	1054.5	774.3	634.1	555.1	396.9	278.3
117.5°	1285.4	1373.6	1285.4	1197.2	1175.2	985.4	732.4	605.9	538.7	404.2	303.4
120°	1221.8	1307.5	1221.8	1136.1	1114.8	941.4	710.2	594.7	533.2	410.2	318.0
122.5°	1160.1	1244.6	1160.1	1075.6	1054.5	898.4	690.1	586.1	530.3	418.8	335.2
125°	1071.8	1149.7	1071.8	994.1	974.6	842.0	665.1	576.7	528.0	430.4	357.3
127.5°	992.5	1058.2	992.5	926.8	910.5	796.6	644.8	568.8	526.6	442.1	378.7
130°	945.7	1006.4	945.7	885.1	869.9	768.6	633.4	565.8	527.4	450.5	393.0
132.5°	903.4	957.7	903.4	849.0	835.4	744.7	623.7	563.2	528.0	457.5	404.6
135°	845.2	892.1	845.2	798.4	786.7	710.7	609.4	558.7	527.4	464.9	418.1
137.5°	798.7	837.0	798.7	760.3	750.7	686.5	600.8	558.0	530.7	476.2	435.4
140°	766.6	802.4	766.6	730.7	721.8	666.3	592.4	555.3	531.2	483.1	447.0
142.5°	740.1	770.9	740.1	709.3	701.6	652.8	587.8	555.3	533.1	488.8	455.5
145°	700.4	723.7	700.4	677.0	671.2	631.4	578.2	551.6	533.2	496.4	468.7
147.5°	669.9	689.2	669.9	650.5	645.7	614.3	572.5	551.6	536.9	507.3	485.2
150°	650.7	666.3	650.7	635.0	631.1	604.6	569.3	551.6	538.8	513.1	493.8
152.5°	634.3	646.1	634.3	622.5	619.5	596.8	566.7	551.6	540.1	516.9	499.5
155°	615.4	623.2	615.4	607.5	605.5	587.5	563.6	551.6	542.8	525.1	511.9
157.5°	600.5	605.9	600.5	594.9	593.5	579.5	560.9	551.6	545.5	533.3	524.2
160°	591.5	594.7	591.5	588.4	587.5	575.5	559.6	551.6	546.8	537.1	529.9
162.5°	585.7	588.7	585.7	582.7	582.0	571.9	558.3	551.6	548.1	541.1	535.9
165°	577.3	580.4	577.3	574.2	573.3	566.1	556.4	551.6	550.0	546.8	544.4
167.5°	571.3	572.6	571.3	570.0	569.6	564.9	558.5	555.3	554.0	551.3	549.3
170°	569.6	569.6	569.6	569.6	569.6	564.9	558.5	555.3	555.2	555.1	555.0
172.5°	565.2	564.0	565.2	566.3	566.6	562.9	557.9	555.3	555.3	555.3	555.3
175°	562.4	562.4	562.4	562.4	562.4	560.1	556.9	555.3	556.1	557.6	558.7
177.5°	560.1	558.7	560.1	561.3	561.7	559.8	557.3	556.1	556.6	557.8	558.7
180°	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7



TEST NUMBER: P934346

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1950.2	1939.3	1939.3	1921.1	1913.8	1908.3	1899.2	1871.9	1864.7	1857.4	1868.3
5°	1966.5	1946.5	1932.0	1899.2	1871.9	1861.0	1826.5	1761.0	1717.3	1684.6	1666.4
7.5°	1970.2	1944.7	1917.4	1866.5	1801.0	1771.9	1666.4	1546.3	1513.5	1484.4	1466.2
10°	1966.5	1937.4	1899.2	1822.8	1668.2	1617.2	1511.7	1433.5	1413.5	1408.0	1413.5
12.5°	1953.8	1926.5	1873.8	1746.4	1529.9	1495.4	1433.5	1388.0	1384.4	1393.5	1442.6
15°	1932.0	1906.5	1844.7	1644.5	1453.5	1428.0	1384.4	1368.0	1388.0	1451.7	1599.1
17.5°	1910.1	1881.0	1804.6	1544.5	1395.3	1377.1	1346.2	1378.9	1491.7	1577.2	1626.3
20°	1881.0	1846.5	1759.1	1471.7	1353.4	1337.1	1322.5	1469.9	1555.4	1586.3	1613.6
22.5°	1846.5	1810.1	1697.3	1420.8	1309.8	1297.1	1306.1	1520.8	1555.4	1577.2	1600.9
25°	1801.0	1770.1	1624.5	1380.7	1275.2	1260.7	1295.2	1515.4	1535.4	1540.8	1588.1
27.5°	1759.1	1719.1	1548.1	1344.4	1233.4	1227.9	1304.3	1491.7	1506.3	1511.7	1562.7
30°	1708.2	1648.2	1462.6	1306.1	1189.7	1187.9	1306.1	1462.6	1459.0	1473.5	1524.5
32.5°	1655.4	1542.7	1366.2	1258.8	1147.9	1146.1	1293.4	1418.9	1415.3	1435.3	1473.5
35°	1606.3	1460.8	1235.2	1204.3	1095.1	1096.9	1262.5	1368.0	1369.8	1388.0	1411.7
37.5°	1555.4	1389.8	1091.5	1144.2	1044.3	1044.3	1220.6	1320.7	1317.1	1322.5	1355.3
40°	1495.4	1278.9	964.2	1066.1	997.0	991.5	1169.7	1269.8	1257.0	1255.2	1300.7
42.5°	1431.7	1157.0	869.6	962.4	942.4	935.1	1107.8	1207.9	1184.3	1189.7	1247.9
45°	1362.5	1124.2	796.8	813.2	886.0	880.5	1040.6	1137.0	1120.6	1135.1	1195.2
47.5°	1293.4	1058.8	773.2	675.0	826.0	824.1	966.0	1067.9	1058.8	1073.4	1137.0
50°	1198.8	986.0	771.4	578.5	758.6	765.9	876.9	1000.6	1000.6	1013.3	1080.6
52.5°	1077.0	896.9	700.4	524.0	680.4	702.2	798.7	942.4	946.0	958.8	1018.8
55°	966.0	804.1	649.5	482.1	587.6	634.9	722.3	882.3	889.6	902.4	956.9
57.5°	864.2	669.5	638.6	433.0	502.1	547.6	654.9	824.1	827.8	838.7	891.4
60°	755.0	483.9	585.8	380.2	427.5	462.1	593.1	755.0	767.7	775.0	820.5
62.5°	631.3	351.1	531.2	343.8	391.1	398.4	542.1	689.5	705.9	711.3	738.6
65°	449.4	294.7	451.2	312.9	352.9	354.8	487.6	622.2	636.7	645.8	665.9
67.5°	303.8	240.1	343.8	283.8	323.8	325.7	434.8	544.0	564.0	571.3	584.0
70°	211.0	160.1	254.7	252.9	291.1	294.7	378.4	473.0	491.2	496.7	503.9
72.5°	154.6	129.2	211.0	227.4	256.5	260.2	320.2	393.0	411.2	416.6	420.3
75°	118.3	136.4	171.0	198.3	218.3	220.1	262.0	320.2	332.9	336.6	338.4
77.5°	94.6	127.3	125.5	160.1	178.3	174.7	205.6	247.4	258.3	258.3	258.3
80°	71.0	100.1	94.6	114.6	131.0	127.3	147.4	176.5	180.1	183.7	181.9
82.5°	52.8	63.7	63.7	72.8	87.3	83.7	98.2	114.6	114.6	114.6	118.3
85°	32.7	36.4	29.1	38.2	49.1	47.3	54.6	61.9	63.7	63.7	60.0
87.5°	20.0	16.4	9.1	14.6	21.8	21.8	25.5	27.3	25.5	25.5	25.5
90°	9.7	6.7	3.7	6.7	9.7	10.5	16.5	24.5	28.5	25.3	19.0
92.5°	66.0	40.5	15.0	40.5	66.0	72.4	101.8	140.9	160.5	140.6	101.0
95°	129.4	82.7	36.0	82.7	129.4	141.0	250.3	396.1	469.1	418.6	317.6
97.5°	144.5	103.3	62.2	103.3	144.5	154.8	337.2	580.3	702.0	670.0	606.2
100°	157.1	119.8	82.5	119.8	157.1	166.5	368.9	638.7	773.6	775.9	780.6
102.5°	169.4	134.6	99.8	134.6	169.4	178.1	383.3	657.0	793.8	834.5	915.8
105°	188.0	158.5	129.0	158.5	188.0	195.4	394.1	659.1	791.6	882.7	1065.1
107.5°	213.9	186.5	159.0	186.5	213.9	220.9	396.1	629.7	746.5	873.7	1128.0
110°	229.0	204.0	179.2	204.0	229.0	235.1	393.1	603.7	709.1	851.2	1135.5



TEST NUMBER: P934346

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	246.4	222.8	199.1	222.8	246.4	252.3	393.2	581.1	675.0	820.4	1111.4
115°	272.8	251.0	229.1	251.0	272.8	278.3	396.9	555.1	634.1	774.3	1054.5
117.5°	298.4	278.5	258.7	278.5	298.4	303.4	404.2	538.7	605.9	732.4	985.4
120°	313.4	294.6	276.0	294.6	313.4	318.0	410.2	533.2	594.7	710.2	941.4
122.5°	330.5	311.6	292.8	311.6	330.5	335.2	418.8	530.3	586.1	690.1	898.4
125°	353.0	335.8	318.7	335.8	353.0	357.3	430.4	528.0	576.7	665.1	842.0
127.5°	374.3	357.0	339.7	357.0	374.3	378.7	442.1	526.6	568.8	644.8	796.6
130°	388.3	369.6	350.9	369.6	388.3	393.0	450.5	527.4	565.8	633.4	768.6
132.5°	400.0	381.2	362.6	381.2	400.0	404.6	457.5	528.0	563.2	623.7	744.7
135°	413.8	396.9	379.9	396.9	413.8	418.1	464.9	527.4	558.7	609.4	710.7
137.5°	431.2	414.3	397.5	414.3	431.2	435.4	476.2	530.7	558.0	600.8	686.5
140°	443.1	427.6	412.1	427.6	443.1	447.0	483.1	531.2	555.3	592.4	666.3
142.5°	452.0	437.6	423.3	437.6	452.0	455.5	488.8	533.1	555.3	587.8	652.8
145°	465.6	453.1	440.6	453.1	465.6	468.7	496.4	533.2	551.6	578.2	631.4
147.5°	482.2	470.0	457.8	470.0	482.2	485.2	507.3	536.9	551.6	572.5	614.3
150°	491.1	480.1	469.1	480.1	491.1	493.8	513.1	538.8	551.6	569.3	604.6
152.5°	497.4	489.1	480.7	489.1	497.4	499.5	516.9	540.1	551.6	566.7	596.8
155°	510.3	504.1	497.9	504.1	510.3	511.9	525.1	542.8	551.6	563.6	587.5
157.5°	522.7	516.7	510.7	516.7	522.7	524.2	533.3	545.5	551.6	560.9	579.5
160°	528.7	524.0	519.3	524.0	528.7	529.9	537.1	546.8	551.6	559.6	575.5
162.5°	535.0	531.5	528.0	531.5	535.0	535.9	541.1	548.1	551.6	558.3	571.9
165°	543.6	540.5	537.3	540.5	543.6	544.4	546.8	550.0	551.6	556.4	566.1
167.5°	549.0	547.4	546.0	547.4	549.0	549.3	551.3	554.0	555.3	558.5	564.9
170°	554.6	553.1	551.6	553.1	554.6	555.0	555.1	555.2	555.3	558.5	564.9
172.5°	555.2	555.0	554.6	555.0	555.2	555.3	555.3	555.3	555.3	557.9	562.9
175°	558.7	558.7	558.7	558.7	558.7	558.7	557.6	556.1	555.3	556.9	560.1
177.5°	558.7	558.7	558.7	558.7	558.7	558.7	557.8	556.6	556.1	557.3	559.8
180°	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7



TEST NUMBER: P934346

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1855.6	1850.1	1857.4	1837.4	1857.4	1850.1	1855.6	1868.3	1857.4	1864.7	1871.9
5°	1628.2	1619.1	1590.0	1566.3	1590.0	1619.1	1628.2	1666.4	1684.6	1717.3	1761.0
7.5°	1455.3	1448.1	1440.8	1426.2	1440.8	1448.1	1455.3	1466.2	1484.4	1513.5	1546.3
10°	1417.1	1418.9	1429.9	1428.0	1429.9	1418.9	1417.1	1413.5	1408.0	1413.5	1433.5
12.5°	1515.4	1531.7	1591.8	1588.1	1591.8	1531.7	1515.4	1442.6	1393.5	1384.4	1388.0
15°	1628.2	1633.6	1646.4	1648.2	1646.4	1633.6	1628.2	1599.1	1451.7	1388.0	1368.0
17.5°	1639.1	1640.9	1650.0	1650.0	1650.0	1640.9	1639.1	1626.3	1577.2	1491.7	1378.9
20°	1630.0	1633.6	1651.8	1655.4	1651.8	1633.6	1630.0	1613.6	1586.3	1555.4	1469.9
22.5°	1626.3	1633.6	1648.2	1646.4	1648.2	1633.6	1626.3	1600.9	1577.2	1555.4	1520.8
25°	1608.1	1608.1	1610.0	1611.8	1610.0	1608.1	1608.1	1588.1	1540.8	1535.4	1515.4
27.5°	1569.9	1573.6	1584.5	1582.7	1584.5	1573.6	1569.9	1562.7	1511.7	1506.3	1491.7
30°	1535.4	1531.7	1522.6	1515.4	1522.6	1531.7	1535.4	1524.5	1473.5	1459.0	1462.6
32.5°	1477.2	1468.1	1459.0	1453.5	1459.0	1468.1	1477.2	1473.5	1435.3	1415.3	1418.9
35°	1408.0	1409.8	1408.0	1402.6	1408.0	1409.8	1408.0	1411.7	1388.0	1369.8	1368.0
37.5°	1358.9	1362.5	1360.7	1353.4	1360.7	1362.5	1358.9	1355.3	1322.5	1317.1	1320.7
40°	1308.0	1309.8	1308.0	1302.5	1308.0	1309.8	1308.0	1300.7	1255.2	1257.0	1269.8
42.5°	1258.8	1257.0	1251.6	1247.9	1251.6	1257.0	1258.8	1247.9	1189.7	1184.3	1207.9
45°	1202.4	1204.3	1193.4	1187.9	1193.4	1204.3	1202.4	1195.2	1135.1	1120.6	1137.0
47.5°	1146.1	1146.1	1137.0	1131.5	1137.0	1146.1	1146.1	1137.0	1073.4	1058.8	1067.9
50°	1086.0	1084.3	1071.6	1069.7	1071.6	1084.3	1086.0	1080.6	1013.3	1000.6	1000.6
52.5°	1017.0	1017.0	1018.8	1022.4	1018.8	1017.0	1017.0	1018.8	958.8	946.0	942.4
55°	956.9	958.8	971.5	975.1	971.5	958.8	956.9	956.9	902.4	889.6	882.3
57.5°	895.1	895.1	904.2	904.2	904.2	895.1	895.1	891.4	838.7	827.8	824.1
60°	824.1	827.8	835.0	833.2	835.0	827.8	824.1	820.5	775.0	767.7	755.0
62.5°	749.5	753.2	755.0	751.4	755.0	753.2	749.5	738.6	711.3	705.9	689.5
65°	671.3	675.0	676.8	673.1	676.8	675.0	671.3	665.9	645.8	636.7	622.2
67.5°	591.3	589.4	587.6	594.9	587.6	589.4	591.3	584.0	571.3	564.0	544.0
70°	509.4	509.4	507.6	511.2	507.6	509.4	509.4	503.9	496.7	491.2	473.0
72.5°	422.1	420.3	427.5	422.1	427.5	420.3	422.1	420.3	416.6	411.2	393.0
75°	336.6	340.2	336.6	342.0	336.6	340.2	336.6	338.4	336.6	332.9	320.2
77.5°	256.5	260.2	256.5	256.5	256.5	260.2	256.5	258.3	258.3	258.3	247.4
80°	181.9	180.1	180.1	178.3	180.1	180.1	181.9	181.9	183.7	180.1	176.5
82.5°	116.4	114.6	114.6	118.3	114.6	114.6	116.4	118.3	114.6	114.6	114.6
85°	63.7	65.5	61.9	61.9	61.9	65.5	63.7	60.0	63.7	63.7	61.9
87.5°	23.7	21.8	21.8	21.8	21.8	21.8	23.7	25.5	25.5	25.5	27.3
90°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	19.0	25.3	28.5	24.5
92.5°	71.2	68.4	57.0	45.8	57.0	68.4	71.2	101.0	140.6	160.5	140.9
95°	241.9	233.3	198.9	164.6	198.9	233.3	241.9	317.6	418.6	469.1	396.1
97.5°	558.3	542.0	476.6	411.3	476.6	542.0	558.3	606.2	670.0	702.0	580.3
100°	784.0	764.5	686.8	608.9	686.8	764.5	784.0	780.6	775.9	773.6	638.7
102.5°	976.8	960.1	893.4	826.8	893.4	960.1	976.8	915.8	834.5	793.8	657.0
105°	1201.8	1192.8	1157.0	1121.1	1157.0	1192.8	1201.8	1065.1	882.7	791.6	659.1
107.5°	1318.8	1321.0	1329.6	1338.3	1329.6	1321.0	1318.8	1128.0	873.7	746.5	629.7
110°	1348.7	1358.1	1395.4	1432.8	1395.4	1358.1	1348.7	1135.5	851.2	709.1	603.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1329.6	1344.0	1401.3	1458.6	1401.3	1344.0	1329.6	1111.4	820.4	675.0	581.1
115°	1264.8	1284.6	1364.1	1443.6	1364.1	1284.6	1264.8	1054.5	774.3	634.1	555.1
117.5°	1175.2	1197.2	1285.4	1373.6	1285.4	1197.2	1175.2	985.4	732.4	605.9	538.7
120°	1114.8	1136.1	1221.8	1307.5	1221.8	1136.1	1114.8	941.4	710.2	594.7	533.2
122.5°	1054.5	1075.6	1160.1	1244.6	1160.1	1075.6	1054.5	898.4	690.1	586.1	530.3
125°	974.6	994.1	1071.8	1149.7	1071.8	994.1	974.6	842.0	665.1	576.7	528.0
127.5°	910.5	926.8	992.5	1058.2	992.5	926.8	910.5	796.6	644.8	568.8	526.6
130°	869.9	885.1	945.7	1006.4	945.7	885.1	869.9	768.6	633.4	565.8	527.4
132.5°	835.4	849.0	903.4	957.7	903.4	849.0	835.4	744.7	623.7	563.2	528.0
135°	786.7	798.4	845.2	892.1	845.2	798.4	786.7	710.7	609.4	558.7	527.4
137.5°	750.7	760.3	798.7	837.0	798.7	760.3	750.7	686.5	600.8	558.0	530.7
140°	721.8	730.7	766.6	802.4	766.6	730.7	721.8	666.3	592.4	555.3	531.2
142.5°	701.6	709.3	740.1	770.9	740.1	709.3	701.6	652.8	587.8	555.3	533.1
145°	671.2	677.0	700.4	723.7	700.4	677.0	671.2	631.4	578.2	551.6	533.2
147.5°	645.7	650.5	669.9	689.2	669.9	650.5	645.7	614.3	572.5	551.6	536.9
150°	631.1	635.0	650.7	666.3	650.7	635.0	631.1	604.6	569.3	551.6	538.8
152.5°	619.5	622.5	634.3	646.1	634.3	622.5	619.5	596.8	566.7	551.6	540.1
155°	605.5	607.5	615.4	623.2	615.4	607.5	605.5	587.5	563.6	551.6	542.8
157.5°	593.5	594.9	600.5	605.9	600.5	594.9	593.5	579.5	560.9	551.6	545.5
160°	587.5	588.4	591.5	594.7	591.5	588.4	587.5	575.5	559.6	551.6	546.8
162.5°	582.0	582.7	585.7	588.7	585.7	582.7	582.0	571.9	558.3	551.6	548.1
165°	573.3	574.2	577.3	580.4	577.3	574.2	573.3	566.1	556.4	551.6	550.0
167.5°	569.6	570.0	571.3	572.6	571.3	570.0	569.6	564.9	558.5	555.3	554.0
170°	569.6	569.6	569.6	569.6	569.6	569.6	569.6	564.9	558.5	555.3	555.2
172.5°	566.6	566.3	565.2	564.0	565.2	566.3	566.6	562.9	557.9	555.3	555.3
175°	562.4	562.4	562.4	562.4	562.4	562.4	562.4	560.1	556.9	555.3	556.1
177.5°	561.7	561.3	560.1	558.7	560.1	561.3	561.7	559.8	557.3	556.1	556.6
180°	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1899.2	1908.3	1913.8	1921.1	1939.3
5°	1826.5	1861.0	1871.9	1899.2	1932.0
7.5°	1666.4	1771.9	1801.0	1866.5	1917.4
10°	1511.7	1617.2	1668.2	1822.8	1899.2
12.5°	1433.5	1495.4	1529.9	1746.4	1873.8
15°	1384.4	1428.0	1453.5	1644.5	1844.7
17.5°	1346.2	1377.1	1395.3	1544.5	1804.6
20°	1322.5	1337.1	1353.4	1471.7	1759.1
22.5°	1306.1	1297.1	1309.8	1420.8	1697.3
25°	1295.2	1260.7	1275.2	1380.7	1624.5
27.5°	1304.3	1227.9	1233.4	1344.4	1548.1
30°	1306.1	1187.9	1189.7	1306.1	1462.6
32.5°	1293.4	1146.1	1147.9	1258.8	1366.2
35°	1262.5	1096.9	1095.1	1204.3	1235.2
37.5°	1220.6	1044.3	1044.3	1144.2	1091.5
40°	1169.7	991.5	997.0	1066.1	964.2
42.5°	1107.8	935.1	942.4	962.4	869.6
45°	1040.6	880.5	886.0	813.2	796.8
47.5°	966.0	824.1	826.0	675.0	773.2
50°	876.9	765.9	758.6	578.5	771.4
52.5°	798.7	702.2	680.4	524.0	700.4
55°	722.3	634.9	587.6	482.1	649.5
57.5°	654.9	547.6	502.1	433.0	638.6
60°	593.1	462.1	427.5	380.2	585.8
62.5°	542.1	398.4	391.1	343.8	531.2
65°	487.6	354.8	352.9	312.9	451.2
67.5°	434.8	325.7	323.8	283.8	343.8
70°	378.4	294.7	291.1	252.9	254.7
72.5°	320.2	260.2	256.5	227.4	211.0
75°	262.0	220.1	218.3	198.3	171.0
77.5°	205.6	174.7	178.3	160.1	125.5
80°	147.4	127.3	131.0	114.6	94.6
82.5°	98.2	83.7	87.3	72.8	63.7
85°	54.6	47.3	49.1	38.2	29.1
87.5°	25.5	21.8	21.8	14.6	9.1
90°	16.5	10.5	9.7	6.7	3.7
92.5°	101.8	72.4	66.0	40.5	15.0
95°	250.3	141.0	129.4	82.7	36.0
97.5°	337.2	154.8	144.5	103.3	62.2
100°	368.9	166.5	157.1	119.8	82.5
102.5°	383.3	178.1	169.4	134.6	99.8
105°	394.1	195.4	188.0	158.5	129.0
107.5°	396.1	220.9	213.9	186.5	159.0
110°	393.1	235.1	229.0	204.0	179.2



TEST NUMBER: P934346

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	393.2	252.3	246.4	222.8	199.1
115°	396.9	278.3	272.8	251.0	229.1
117.5°	404.2	303.4	298.4	278.5	258.7
120°	410.2	318.0	313.4	294.6	276.0
122.5°	418.8	335.2	330.5	311.6	292.8
125°	430.4	357.3	353.0	335.8	318.7
127.5°	442.1	378.7	374.3	357.0	339.7
130°	450.5	393.0	388.3	369.6	350.9
132.5°	457.5	404.6	400.0	381.2	362.6
135°	464.9	418.1	413.8	396.9	379.9
137.5°	476.2	435.4	431.2	414.3	397.5
140°	483.1	447.0	443.1	427.6	412.1
142.5°	488.8	455.5	452.0	437.6	423.3
145°	496.4	468.7	465.6	453.1	440.6
147.5°	507.3	485.2	482.2	470.0	457.8
150°	513.1	493.8	491.1	480.1	469.1
152.5°	516.9	499.5	497.4	489.1	480.7
155°	525.1	511.9	510.3	504.1	497.9
157.5°	533.3	524.2	522.7	516.7	510.7
160°	537.1	529.9	528.7	524.0	519.3
162.5°	541.1	535.9	535.0	531.5	528.0
165°	546.8	544.4	543.6	540.5	537.3
167.5°	551.3	549.3	549.0	547.4	546.0
170°	555.1	555.0	554.6	553.1	551.6
172.5°	555.3	555.3	555.2	555.0	554.6
175°	557.6	558.7	558.7	558.7	558.7
177.5°	557.8	558.7	558.7	558.7	558.7
180°	558.7	558.7	558.7	558.7	558.7



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.11	14.05	14.00	14.96	16.11	15.95	16.89	16.84	17.79	18.95
	3H	13.60	14.44	14.49	15.35	16.53	17.30	18.14	18.20	19.06	20.24
	4H	13.79	14.58	14.70	15.51	16.69	17.75	18.55	18.67	19.47	20.66
	6H	13.91	14.65	14.84	15.57	16.77	18.04	18.78	18.97	19.70	20.91
	8H	13.92	14.61	14.85	15.56	16.76	18.12	18.82	19.06	19.76	20.96
	12H	13.89	14.55	14.83	15.49	16.72	18.16	18.83	19.10	19.77	20.99
4H	2H	14.16	14.95	15.08	15.87	17.06	16.37	17.16	17.29	18.08	19.27
	3H	15.19	15.85	16.12	16.81	18.01	17.88	18.55	18.81	19.50	20.70
	4H	15.47	16.07	16.41	17.02	18.25	18.42	19.02	19.36	19.97	21.20
	6H	15.60	16.12	16.55	17.09	18.32	18.79	19.31	19.74	20.28	21.51
	8H	15.61	16.09	16.56	17.06	18.30	18.90	19.38	19.85	20.35	21.59
	12H	15.58	16.02	16.55	17.00	18.25	18.96	19.40	19.93	20.38	21.63
8H	4H	15.93	16.42	16.89	17.38	18.62	18.55	19.03	19.50	20.00	21.24
	6H	16.20	16.60	17.18	17.60	18.85	18.99	19.39	19.97	20.40	21.64
	8H	16.24	16.59	17.23	17.59	18.85	19.14	19.50	20.13	20.49	21.75
	12H	16.23	16.54	17.22	17.53	18.83	19.25	19.56	20.24	20.55	21.85
12H	4H	15.94	16.38	16.92	17.36	18.61	18.52	18.95	19.49	19.94	21.18
	6H	16.26	16.61	17.25	17.61	18.87	18.99	19.34	19.98	20.34	21.60
	8H	16.33	16.64	17.32	17.63	18.94	19.15	19.47	20.15	20.45	21.76