

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: P934226

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934226
REPORT IS A COMBINATION OF REPORTS P933689 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

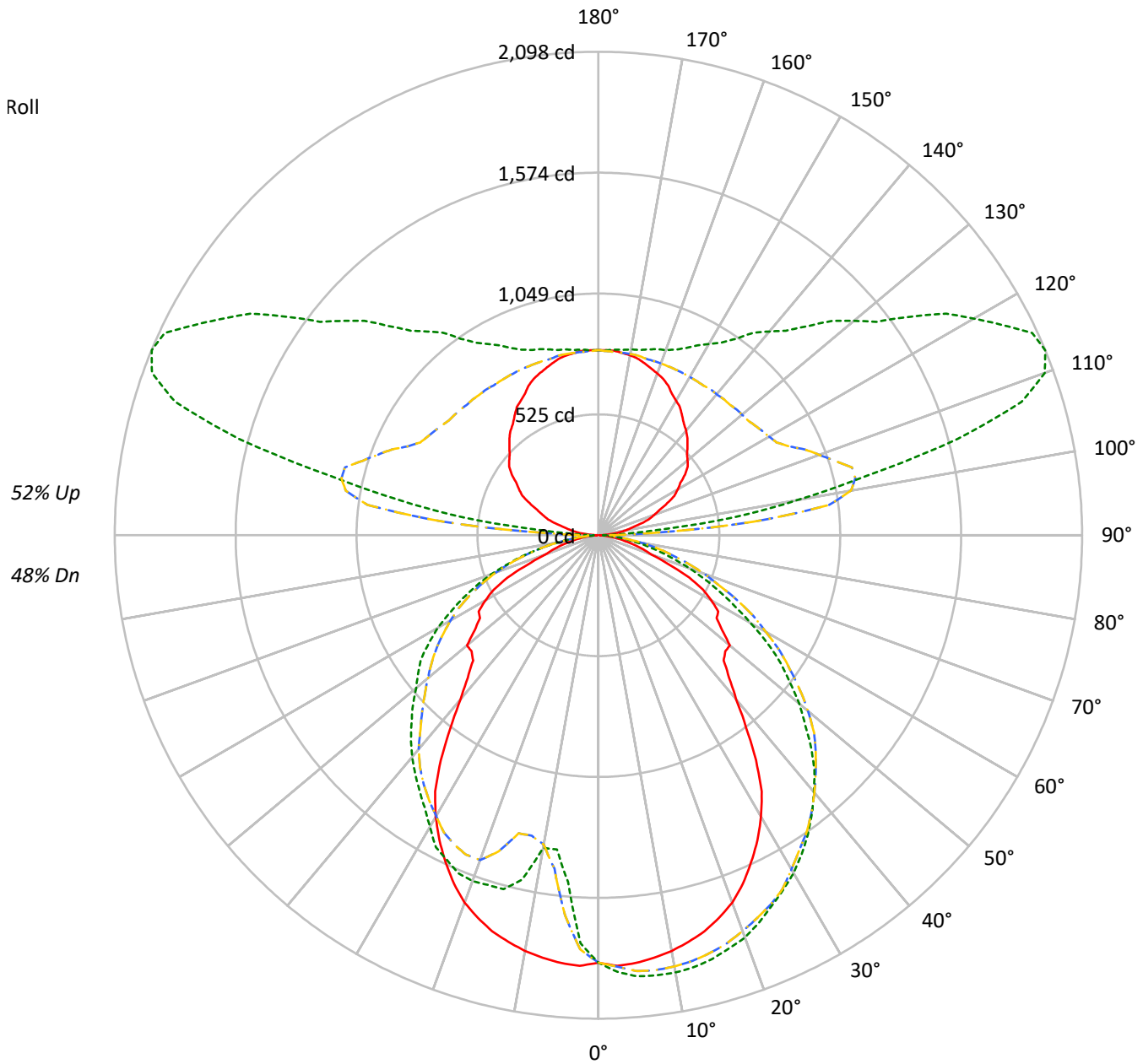
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10019.6 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 85.2
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



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48	48	48	48	48	48	48	48	48	48																
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41	41	41	41	41	41	41	41	41	41																
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34	34	34	34	34	34	34	34	34	34																
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29	29	29	29	29	29	29	29	29	29																
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25	25	25	25	25	25	25	25	25	25																
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21	21	21	21	21	21	21	21	21	21																
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19	19	19	19	19	19	19	19	19	19																
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17	17	17	17	17	17	17	17	17	17																
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15	15	15	15	15	15	15	15	15	15																
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13	13	13	13	13	13	13	13	13	13																
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12	12	12	12	12	12	12	12	12	12																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5781	5790	5781	4553
10°	5745	5704	5745	4078
15°	5684	5580	5684	4659
20°	5568	5434	5568	4669
25°	5327	5220	5327	4570
30°	5014	5043	5014	4353
35°	4472	4819	4472	4114
40°	3728	4555	3728	3934
45°	3333	4246	3333	3727
50°	3544	3877	3544	3518
55°	3338	3480	3338	3398
60°	3445	2956	3445	3112
65°	3129	2444	3129	2731
70°	2172	1948	2172	2289
75°	1911	1440	1911	1723
80°	1551	952	1551	1037
85°	911	504	911	428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5106 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	1.7
10°-20°	475.3	4.7
20°-30°	734.7	7.3
30°-40°	877.1	8.8
40°-50°	882.3	8.8
50°-60°	767.7	7.7
60°-70°	544.3	5.4
70°-80°	288.0	2.9
80°-90°	74.8	0.7
90°-100°	391.6	3.9
100°-110°	1029.6	10.3
110°-120°	1067.6	10.7
120°-130°	856.3	8.5
130°-140°	671.9	6.7
140°-150°	515.7	5.1
150°-160°	371.4	3.7
160°-170°	227.2	2.3
170°-180°	76.8	0.8
0°-30°	1377.4	13.7
0°-40°	2254.5	22.5
0°-60°	3904.4	39.0
0°-90°	4811.5	48.0
90°-120°	2488.8	24.8
90°-150°	4532.7	45.2
90°-180°	5208.0	52.0
0°-180°	10019.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1854	1854	1854	1854	1854	
5°	1863	1921	1863	1511	1863	177
15°	1779	1904	1779	1590	1779	501
25°	1567	1776	1567	1554	1567	719
35°	1191	1584	1191	1353	1191	737
45°	768	1305	768	1146	768	616
55°	626	963	626	940	626	576
65°	435	581	435	649	435	416
75°	165	276	165	330	165	173
85°	28	70	28	60	28	38
90°	5	20	5	20	5	6
95°	52	237	52	237	52	57
105°	186	1612	186	1612	186	197
115°	330	2076	330	2076	330	325
125°	458	1653	458	1653	458	407
135°	546	1283	546	1283	546	423
145°	634	1041	634	1041	634	397
155°	716	896	716	896	716	329
165°	773	835	773	835	773	218
175°	803	809	803	809	803	76
180°	803	803	803	803	803	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1870.3	1870.3	1880.8	1884.3	1884.3	1879.1	1873.8	1879.1	1894.8	1900.1	1898.3
5°	1863.3	1877.3	1896.6	1900.1	1903.7	1901.9	1898.3	1901.9	1919.4	1922.9	1924.7
7.5°	1849.2	1875.6	1900.1	1905.4	1910.6	1905.4	1903.7	1907.1	1924.7	1928.2	1928.2
10°	1831.7	1868.5	1896.6	1900.1	1905.4	1900.1	1900.1	1907.1	1924.7	1928.2	1930.0
12.5°	1807.1	1858.0	1884.3	1887.9	1894.8	1893.1	1891.4	1898.3	1915.9	1919.4	1919.4
15°	1779.0	1838.7	1863.3	1866.8	1879.1	1875.6	1875.6	1882.5	1901.9	1907.1	1905.4
17.5°	1740.5	1814.2	1842.3	1847.5	1856.3	1854.5	1856.3	1863.3	1880.8	1884.3	1886.1
20°	1696.6	1780.8	1814.2	1819.4	1828.2	1828.2	1828.2	1836.9	1854.5	1861.5	1861.5
22.5°	1637.0	1745.7	1780.8	1784.4	1794.8	1794.8	1798.4	1810.6	1826.4	1828.2	1828.2
25°	1566.8	1707.1	1736.9	1747.5	1758.0	1763.3	1768.6	1775.5	1780.8	1779.0	1780.8
27.5°	1493.1	1658.0	1696.6	1703.6	1717.6	1722.9	1729.9	1731.7	1733.4	1738.7	1735.2
30°	1410.6	1589.5	1647.4	1654.5	1677.3	1680.8	1673.8	1677.3	1686.1	1689.6	1693.1
32.5°	1317.6	1487.8	1596.6	1612.4	1633.4	1622.9	1621.1	1626.4	1640.5	1640.5	1644.0
35°	1191.3	1408.9	1549.3	1563.3	1579.1	1566.8	1573.8	1575.5	1584.3	1589.5	1587.8
37.5°	1052.7	1340.4	1500.1	1510.6	1522.9	1507.1	1517.6	1522.9	1529.9	1526.4	1526.4
40°	929.8	1233.4	1442.2	1449.2	1459.7	1447.5	1458.0	1461.5	1465.0	1461.5	1459.7
42.5°	838.6	1115.9	1380.8	1389.6	1382.5	1391.3	1394.8	1401.9	1396.6	1389.6	1389.6
45°	768.4	1084.3	1314.2	1324.6	1314.2	1328.2	1333.4	1333.4	1317.6	1314.2	1312.3
47.5°	745.7	1021.2	1247.4	1247.4	1242.2	1259.7	1268.5	1256.3	1240.5	1235.1	1235.1
50°	743.9	951.0	1156.2	1149.2	1173.8	1194.8	1186.1	1173.8	1161.5	1142.2	1142.2
52.5°	675.5	865.0	1038.7	1065.0	1103.6	1115.9	1101.8	1089.5	1068.5	1059.7	1052.7
55°	626.4	775.5	931.6	984.3	1024.6	1040.4	1014.1	1001.8	970.2	965.0	961.5
57.5°	615.8	645.7	833.4	900.0	949.2	947.5	931.6	908.8	882.5	877.3	875.5
60°	565.0	466.7	728.1	807.1	857.9	852.7	838.6	817.6	793.0	789.5	786.1
62.5°	512.3	338.6	608.8	698.3	770.2	768.4	756.2	724.6	707.0	698.3	691.3
65°	435.1	284.2	433.4	580.8	684.3	687.8	661.4	638.7	619.3	608.8	607.0
67.5°	331.6	231.6	293.0	484.2	601.8	598.3	565.0	554.4	529.8	524.6	514.1
70°	245.7	154.4	203.5	393.0	521.1	512.3	486.0	473.7	450.9	438.6	431.6
72.5°	203.5	124.5	149.1	305.3	438.6	428.1	405.3	391.3	371.9	361.5	354.4
75°	164.9	131.6	114.1	226.3	356.1	349.2	328.1	314.0	298.2	284.2	285.9
77.5°	121.0	122.8	91.2	166.6	282.5	272.0	259.7	242.2	235.1	221.1	221.1
80°	91.2	96.5	68.5	114.1	203.5	203.5	193.0	180.7	168.4	161.4	161.4
82.5°	61.4	61.4	50.8	71.9	138.6	133.3	126.4	122.8	115.8	112.3	112.3
85°	28.1	35.1	31.6	43.9	75.4	78.9	78.9	75.4	73.7	70.2	71.9
87.5°	8.8	15.8	19.3	24.6	38.6	40.4	42.1	42.1	42.1	43.9	43.9
90°	5.4	9.7	14.0	15.1	23.7	35.2	41.0	36.5	27.3	20.5	20.5
92.5°	21.5	58.2	94.9	104.0	146.2	202.6	230.7	202.2	145.2	102.5	98.4
95°	51.8	118.9	186.0	202.7	360.0	569.7	674.5	601.9	456.7	347.8	335.4
97.5°	89.5	148.7	207.9	222.7	484.9	834.5	1009.4	963.5	871.7	802.9	779.4
100°	118.6	172.3	225.9	239.4	530.4	918.3	1112.4	1115.7	1122.4	1127.5	1099.5
102.5°	143.4	193.5	243.6	256.1	551.2	944.8	1141.5	1199.9	1316.9	1404.6	1380.6
105°	185.5	227.9	270.2	280.9	566.6	947.7	1138.3	1269.3	1531.5	1728.1	1715.2
107.5°	228.6	268.2	307.7	317.6	569.6	905.6	1073.6	1256.4	1622.2	1896.4	1899.6
110°	257.8	293.4	329.2	338.1	565.3	868.2	1019.7	1224.1	1632.9	1939.5	1952.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	286.3	320.3	354.3	362.9	565.4	835.5	970.6	1179.8	1598.2	1912.0	1932.6
115°	329.5	360.8	392.2	400.1	570.7	798.1	911.8	1113.3	1516.4	1818.7	1847.3
117.5°	372.0	400.5	429.0	436.2	581.2	774.6	871.3	1053.2	1417.0	1689.8	1721.5
120°	396.9	423.7	450.5	457.2	589.8	766.8	855.2	1021.4	1353.7	1603.1	1633.8
122.5°	421.1	448.2	475.3	482.1	602.3	762.6	842.7	992.4	1291.7	1516.2	1546.6
125°	458.3	483.0	507.7	513.9	619.1	759.2	829.3	956.4	1210.6	1401.4	1429.4
127.5°	488.5	513.5	538.4	544.6	635.7	757.2	818.0	927.1	1145.4	1309.2	1332.8
130°	504.7	531.6	558.4	565.1	647.9	758.4	813.7	910.8	1105.2	1250.9	1272.7
132.5°	521.4	548.2	575.1	581.8	657.9	759.2	809.9	896.9	1070.9	1201.3	1220.8
135°	546.2	570.7	595.1	601.2	668.6	758.5	803.4	876.3	1022.0	1131.3	1148.1
137.5°	571.5	595.8	620.0	626.0	684.8	763.2	802.4	863.9	987.1	1079.5	1093.3
140°	592.5	614.9	637.1	642.7	694.7	763.9	798.5	851.7	958.2	1038.0	1050.9
142.5°	608.8	629.3	650.0	655.2	702.9	766.7	798.5	845.3	938.7	1008.9	1019.9
145°	633.5	651.5	669.5	674.0	713.8	766.7	793.2	831.4	907.9	965.2	973.5
147.5°	658.4	675.8	693.4	697.7	729.5	772.0	793.2	823.3	883.5	928.5	935.5
150°	674.5	690.3	706.2	710.1	737.8	774.7	793.2	818.6	869.3	907.4	913.1
152.5°	691.3	703.2	715.2	718.2	743.2	776.5	793.2	814.9	858.3	890.8	895.1
155°	716.0	724.9	733.8	736.0	755.1	780.5	793.2	810.5	844.9	870.8	873.6
157.5°	734.4	743.1	751.6	753.8	767.0	784.5	793.2	806.6	833.4	853.5	855.6
160°	746.8	753.5	760.2	761.9	772.4	786.2	793.2	804.7	827.6	844.9	846.0
162.5°	759.2	764.3	769.3	770.5	778.1	788.1	793.2	802.9	822.2	836.8	837.9
165°	772.7	777.2	781.8	782.9	786.3	790.9	793.2	800.2	814.0	824.4	825.6
167.5°	785.1	787.2	789.4	789.9	792.8	796.6	798.5	803.1	812.2	819.0	819.5
170°	793.2	795.3	797.5	798.0	798.2	798.4	798.5	803.1	812.2	819.0	819.0
172.5°	797.5	797.9	798.4	798.5	798.5	798.5	798.5	802.1	809.3	814.7	814.3
175°	803.4	803.4	803.4	803.4	801.7	799.6	798.5	800.8	805.4	808.8	808.8
177.5°	803.4	803.4	803.4	803.4	802.2	800.5	799.7	801.5	805.1	807.8	807.2
180°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1901.9	1896.6	1901.9	1898.3	1900.1	1894.8	1879.1	1873.8	1879.1	1884.3	1884.3
5°	1924.7	1921.2	1924.7	1924.7	1922.9	1919.4	1901.9	1898.3	1901.9	1903.7	1900.1
7.5°	1931.7	1926.4	1931.7	1928.2	1928.2	1924.7	1907.1	1903.7	1905.4	1910.6	1905.4
10°	1931.7	1926.4	1931.7	1930.0	1928.2	1924.7	1907.1	1900.1	1900.1	1905.4	1900.1
12.5°	1922.9	1919.4	1922.9	1919.4	1919.4	1915.9	1898.3	1891.4	1893.1	1894.8	1887.9
15°	1908.9	1903.7	1908.9	1905.4	1907.1	1901.9	1882.5	1875.6	1875.6	1879.1	1866.8
17.5°	1887.9	1880.8	1887.9	1886.1	1884.3	1880.8	1863.3	1856.3	1854.5	1856.3	1847.5
20°	1863.3	1858.0	1863.3	1861.5	1861.5	1854.5	1836.9	1828.2	1828.2	1828.2	1819.4
22.5°	1824.6	1819.4	1824.6	1828.2	1828.2	1826.4	1810.6	1798.4	1794.8	1794.8	1784.4
25°	1780.8	1775.5	1780.8	1780.8	1779.0	1780.8	1775.5	1768.6	1763.3	1758.0	1747.5
27.5°	1738.7	1735.2	1738.7	1735.2	1738.7	1733.4	1731.7	1729.9	1722.9	1717.6	1703.6
30°	1696.6	1693.1	1696.6	1693.1	1689.6	1686.1	1677.3	1673.8	1680.8	1677.3	1654.5
32.5°	1644.0	1640.5	1644.0	1644.0	1640.5	1640.5	1626.4	1621.1	1622.9	1633.4	1612.4
35°	1589.5	1584.3	1589.5	1587.8	1589.5	1584.3	1575.5	1573.8	1566.8	1579.1	1563.3
37.5°	1526.4	1521.2	1526.4	1526.4	1526.4	1529.9	1522.9	1517.6	1507.1	1522.9	1510.6
40°	1461.5	1454.5	1461.5	1459.7	1461.5	1465.0	1461.5	1458.0	1447.5	1459.7	1449.2
42.5°	1387.8	1386.0	1387.8	1389.6	1389.6	1396.6	1401.9	1394.8	1391.3	1382.5	1389.6
45°	1308.8	1305.3	1308.8	1312.3	1314.2	1317.6	1333.4	1333.4	1328.2	1314.2	1324.6
47.5°	1224.6	1215.9	1224.6	1235.1	1235.1	1240.5	1256.3	1268.5	1259.7	1242.2	1247.4
50°	1135.1	1136.9	1135.1	1142.2	1142.2	1161.5	1173.8	1186.1	1194.8	1173.8	1149.2
52.5°	1047.4	1045.7	1047.4	1052.7	1059.7	1068.5	1089.5	1101.8	1115.9	1103.6	1065.0
55°	959.7	963.2	959.7	961.5	965.0	970.2	1001.8	1014.1	1040.4	1024.6	984.3
57.5°	871.9	866.7	871.9	875.5	877.3	882.5	908.8	931.6	947.5	949.2	900.0
60°	770.2	763.2	770.2	786.1	789.5	793.0	817.6	838.6	852.7	857.9	807.1
62.5°	680.7	668.5	680.7	691.3	698.3	707.0	724.6	756.2	768.4	770.2	698.3
65°	586.0	580.8	586.0	607.0	608.8	619.3	638.7	661.4	687.8	684.3	580.8
67.5°	500.0	500.0	500.0	514.1	524.6	529.8	554.4	565.0	598.3	601.8	484.2
70°	421.1	419.4	421.1	431.6	438.6	450.9	473.7	486.0	512.3	521.1	393.0
72.5°	345.7	343.8	345.7	354.4	361.5	371.9	391.3	405.3	428.1	438.6	305.3
75°	279.0	275.5	279.0	285.9	284.2	298.2	314.0	328.1	349.2	356.1	226.3
77.5°	214.1	214.1	214.1	221.1	221.1	235.1	242.2	259.7	272.0	282.5	166.6
80°	159.7	157.9	159.7	161.4	161.4	168.4	180.7	193.0	203.5	203.5	114.1
82.5°	112.3	108.7	112.3	112.3	112.3	115.8	122.8	126.4	133.3	138.6	71.9
85°	70.2	70.2	70.2	71.9	70.2	73.7	75.4	78.9	78.9	75.4	43.9
87.5°	45.6	43.9	45.6	43.9	43.9	42.1	42.1	42.1	40.4	38.6	24.6
90°	20.5	20.5	20.5	20.5	20.5	27.3	36.5	41.0	35.2	23.7	15.1
92.5°	82.1	65.8	82.1	98.4	102.5	145.2	202.2	230.7	202.6	146.2	104.0
95°	286.0	236.7	286.0	335.4	347.8	456.7	601.9	674.5	569.7	360.0	202.7
97.5°	685.4	591.5	685.4	779.4	802.9	871.7	963.5	1009.4	834.5	484.9	222.7
100°	987.6	875.7	987.6	1099.5	1127.5	1122.4	1115.7	1112.4	918.3	530.4	239.4
102.5°	1284.8	1188.9	1284.8	1380.6	1404.6	1316.9	1199.9	1141.5	944.8	551.2	256.1
105°	1663.8	1612.2	1663.8	1715.2	1728.1	1531.5	1269.3	1138.3	947.7	566.6	280.9
107.5°	1911.9	1924.4	1911.9	1899.6	1896.4	1622.2	1256.4	1073.6	905.6	569.6	317.6
110°	2006.6	2060.3	2006.6	1952.9	1939.5	1632.9	1224.1	1019.7	868.2	565.3	338.1



TEST NUMBER: P934226

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2015.1	2097.5	2015.1	1932.6	1912.0	1598.2	1179.8	970.6	835.5	565.4	362.9
115°	1961.6	2076.0	1961.6	1847.3	1818.7	1516.4	1113.3	911.8	798.1	570.7	400.1
117.5°	1848.3	1975.1	1848.3	1721.5	1689.8	1417.0	1053.2	871.3	774.6	581.2	436.2
120°	1757.1	1880.2	1757.1	1633.8	1603.1	1353.7	1021.4	855.2	766.8	589.8	457.2
122.5°	1668.1	1789.6	1668.1	1546.6	1516.2	1291.7	992.4	842.7	762.6	602.3	482.1
125°	1541.2	1653.2	1541.2	1429.4	1401.4	1210.6	956.4	829.3	759.2	619.1	513.9
127.5°	1427.2	1521.6	1427.2	1332.8	1309.2	1145.4	927.1	818.0	757.2	635.7	544.6
130°	1360.0	1447.2	1360.0	1272.7	1250.9	1105.2	910.8	813.7	758.4	647.9	565.1
132.5°	1299.0	1377.1	1299.0	1220.8	1201.3	1070.9	896.9	809.9	759.2	657.9	581.8
135°	1215.4	1282.8	1215.4	1148.1	1131.3	1022.0	876.3	803.4	758.5	668.6	601.2
137.5°	1148.4	1203.5	1148.4	1093.3	1079.5	987.1	863.9	802.4	763.2	684.8	626.0
140°	1102.3	1153.9	1102.3	1050.9	1038.0	958.2	851.7	798.5	763.9	694.7	642.7
142.5°	1064.3	1108.6	1064.3	1019.9	1008.9	938.7	845.3	798.5	766.7	702.9	655.2
145°	1007.1	1040.7	1007.1	973.5	965.2	907.9	831.4	793.2	766.7	713.8	674.0
147.5°	963.2	991.1	963.2	935.5	928.5	883.5	823.3	793.2	772.0	729.5	697.7
150°	935.6	958.2	935.6	913.1	907.4	869.3	818.6	793.2	774.7	737.8	710.1
152.5°	912.1	929.1	912.1	895.1	890.8	858.3	814.9	793.2	776.5	743.2	718.2
155°	884.9	896.2	884.9	873.6	870.8	844.9	810.5	793.2	780.5	755.1	736.0
157.5°	863.4	871.3	863.4	855.6	853.5	833.4	806.6	793.2	784.5	767.0	753.8
160°	850.7	855.2	850.7	846.0	844.9	827.6	804.7	793.2	786.2	772.4	761.9
162.5°	842.2	846.6	842.2	837.9	836.8	822.2	802.9	793.2	788.1	778.1	770.5
165°	830.2	834.7	830.2	825.6	824.4	814.0	800.2	793.2	790.9	786.3	782.9
167.5°	821.5	823.4	821.5	819.5	819.0	812.2	803.1	798.5	796.6	792.8	789.9
170°	819.0	819.0	819.0	819.0	819.0	812.2	803.1	798.5	798.4	798.2	798.0
172.5°	812.6	811.0	812.6	814.3	814.7	809.3	802.1	798.5	798.5	798.5	798.5
175°	808.8	808.8	808.8	808.8	808.8	805.4	800.8	798.5	799.6	801.7	803.4
177.5°	805.3	803.4	805.3	807.2	807.8	805.1	801.5	799.7	800.5	802.2	803.4
180°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4



TEST NUMBER: P934226

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1880.8	1870.3	1870.3	1852.7	1845.7	1840.4	1831.7	1805.4	1798.4	1791.3	1801.9
5°	1896.6	1877.3	1863.3	1831.7	1805.4	1794.8	1761.5	1698.4	1656.3	1624.7	1607.2
7.5°	1900.1	1875.6	1849.2	1800.1	1736.9	1708.8	1607.2	1491.4	1459.7	1431.7	1414.1
10°	1896.6	1868.5	1831.7	1758.0	1608.9	1559.7	1458.0	1382.5	1363.3	1358.0	1363.3
12.5°	1884.3	1858.0	1807.1	1684.3	1475.6	1442.2	1382.5	1338.7	1335.2	1344.0	1391.3
15°	1863.3	1838.7	1779.0	1586.1	1401.9	1377.3	1335.2	1319.4	1338.7	1400.1	1542.2
17.5°	1842.3	1814.2	1740.5	1489.6	1345.7	1328.2	1298.3	1329.9	1438.7	1521.2	1568.5
20°	1814.2	1780.8	1696.6	1419.4	1305.3	1289.6	1275.5	1417.7	1500.1	1529.9	1556.2
22.5°	1780.8	1745.7	1637.0	1370.2	1263.2	1250.9	1259.7	1466.8	1500.1	1521.2	1543.9
25°	1736.9	1707.1	1566.8	1331.7	1229.9	1215.9	1249.2	1461.5	1480.8	1486.0	1531.6
27.5°	1696.6	1658.0	1493.1	1296.5	1189.5	1184.3	1258.0	1438.7	1452.7	1458.0	1507.1
30°	1647.4	1589.5	1410.6	1259.7	1147.4	1145.7	1259.7	1410.6	1407.1	1421.2	1470.2
32.5°	1596.6	1487.8	1317.6	1214.1	1107.0	1105.3	1247.4	1368.5	1365.0	1384.3	1421.2
35°	1549.3	1408.9	1191.3	1161.5	1056.2	1058.0	1217.6	1319.4	1321.1	1338.7	1361.5
37.5°	1500.1	1340.4	1052.7	1103.6	1007.1	1007.1	1177.2	1273.8	1270.3	1275.5	1307.1
40°	1442.2	1233.4	929.8	1028.1	961.5	956.2	1128.2	1224.6	1212.4	1210.6	1254.4
42.5°	1380.8	1115.9	838.6	928.1	908.8	901.8	1068.5	1165.0	1142.2	1147.4	1203.6
45°	1314.2	1084.3	768.4	784.2	854.4	849.2	1003.5	1096.6	1080.8	1094.8	1152.7
47.5°	1247.4	1021.2	745.7	650.9	796.5	794.8	931.6	1029.9	1021.2	1035.2	1096.6
50°	1156.2	951.0	743.9	557.9	731.6	738.6	845.7	965.0	965.0	977.3	1042.2
52.5°	1038.7	865.0	675.5	505.3	656.2	677.2	770.2	908.8	912.3	924.6	982.5
55°	931.6	775.5	626.4	465.0	566.7	612.3	696.5	850.9	857.9	870.2	922.9
57.5°	833.4	645.7	615.8	417.5	484.2	528.1	631.6	794.8	798.3	808.8	859.7
60°	728.1	466.7	565.0	366.7	412.3	445.6	572.0	728.1	740.4	747.4	791.3
62.5°	608.8	338.6	512.3	331.6	377.2	384.2	522.9	664.9	680.7	686.0	712.4
65°	433.4	284.2	435.1	301.8	340.4	342.1	470.2	600.0	614.1	622.8	642.2
67.5°	293.0	231.6	331.6	273.7	312.3	314.0	419.4	524.6	543.9	551.0	563.2
70°	203.5	154.4	245.7	243.9	280.7	284.2	364.9	456.2	473.7	479.0	486.0
72.5°	149.1	124.5	203.5	219.3	247.4	250.9	308.8	379.0	396.5	401.7	405.3
75°	114.1	131.6	164.9	191.2	210.5	212.3	252.6	308.8	321.1	324.6	326.3
77.5°	91.2	122.8	121.0	154.4	172.0	168.4	198.3	238.6	249.1	249.1	249.1
80°	68.5	96.5	91.2	110.6	126.4	122.8	142.1	170.2	173.7	177.2	175.5
82.5°	50.8	61.4	61.4	70.2	84.2	80.8	94.7	110.6	110.6	110.6	114.1
85°	31.6	35.1	28.1	36.9	47.4	45.6	52.7	59.6	61.4	61.4	57.9
87.5°	19.3	15.8	8.8	14.0	21.0	21.0	24.6	26.3	24.6	24.6	24.6
90°	14.0	9.7	5.4	9.7	14.0	15.1	23.7	35.2	41.0	36.5	27.3
92.5°	94.9	58.2	21.5	58.2	94.9	104.0	146.2	202.6	230.7	202.2	145.2
95°	186.0	118.9	51.8	118.9	186.0	202.7	360.0	569.7	674.5	601.9	456.7
97.5°	207.9	148.7	89.5	148.7	207.9	222.7	484.9	834.5	1009.4	963.5	871.7
100°	225.9	172.3	118.6	172.3	225.9	239.4	530.4	918.3	1112.4	1115.7	1122.4
102.5°	243.6	193.5	143.4	193.5	243.6	256.1	551.2	944.8	1141.5	1199.9	1316.9
105°	270.2	227.9	185.5	227.9	270.2	280.9	566.6	947.7	1138.3	1269.3	1531.5
107.5°	307.7	268.2	228.6	268.2	307.7	317.6	569.6	905.6	1073.6	1256.4	1622.2
110°	329.2	293.4	257.8	293.4	329.2	338.1	565.3	868.2	1019.7	1224.1	1632.9



TEST NUMBER: P934226

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	354.3	320.3	286.3	320.3	354.3	362.9	565.4	835.5	970.6	1179.8	1598.2
115°	392.2	360.8	329.5	360.8	392.2	400.1	570.7	798.1	911.8	1113.3	1516.4
117.5°	429.0	400.5	372.0	400.5	429.0	436.2	581.2	774.6	871.3	1053.2	1417.0
120°	450.5	423.7	396.9	423.7	450.5	457.2	589.8	766.8	855.2	1021.4	1353.7
122.5°	475.3	448.2	421.1	448.2	475.3	482.1	602.3	762.6	842.7	992.4	1291.7
125°	507.7	483.0	458.3	483.0	507.7	513.9	619.1	759.2	829.3	956.4	1210.6
127.5°	538.4	513.5	488.5	513.5	538.4	544.6	635.7	757.2	818.0	927.1	1145.4
130°	558.4	531.6	504.7	531.6	558.4	565.1	647.9	758.4	813.7	910.8	1105.2
132.5°	575.1	548.2	521.4	548.2	575.1	581.8	657.9	759.2	809.9	896.9	1070.9
135°	595.1	570.7	546.2	570.7	595.1	601.2	668.6	758.5	803.4	876.3	1022.0
137.5°	620.0	595.8	571.5	595.8	620.0	626.0	684.8	763.2	802.4	863.9	987.1
140°	637.1	614.9	592.5	614.9	637.1	642.7	694.7	763.9	798.5	851.7	958.2
142.5°	650.0	629.3	608.8	629.3	650.0	655.2	702.9	766.7	798.5	845.3	938.7
145°	669.5	651.5	633.5	651.5	669.5	674.0	713.8	766.7	793.2	831.4	907.9
147.5°	693.4	675.8	658.4	675.8	693.4	697.7	729.5	772.0	793.2	823.3	883.5
150°	706.2	690.3	674.5	690.3	706.2	710.1	737.8	774.7	793.2	818.6	869.3
152.5°	715.2	703.2	691.3	703.2	715.2	718.2	743.2	776.5	793.2	814.9	858.3
155°	733.8	724.9	716.0	724.9	733.8	736.0	755.1	780.5	793.2	810.5	844.9
157.5°	751.6	743.1	734.4	743.1	751.6	753.8	767.0	784.5	793.2	806.6	833.4
160°	760.2	753.5	746.8	753.5	760.2	761.9	772.4	786.2	793.2	804.7	827.6
162.5°	769.3	764.3	759.2	764.3	769.3	770.5	778.1	788.1	793.2	802.9	822.2
165°	781.8	777.2	772.7	777.2	781.8	782.9	786.3	790.9	793.2	800.2	814.0
167.5°	789.4	787.2	785.1	787.2	789.4	789.9	792.8	796.6	798.5	803.1	812.2
170°	797.5	795.3	793.2	795.3	797.5	798.0	798.2	798.4	798.5	803.1	812.2
172.5°	798.4	797.9	797.5	797.9	798.4	798.5	798.5	798.5	798.5	802.1	809.3
175°	803.4	803.4	803.4	803.4	803.4	803.4	801.7	799.6	798.5	800.8	805.4
177.5°	803.4	803.4	803.4	803.4	803.4	803.4	802.2	800.5	799.7	801.5	805.1
180°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4



TEST NUMBER: P934226

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1789.6	1784.4	1791.3	1772.1	1791.3	1784.4	1789.6	1801.9	1791.3	1798.4	1805.4
5°	1570.3	1561.5	1533.5	1510.6	1533.5	1561.5	1570.3	1607.2	1624.7	1656.3	1698.4
7.5°	1403.6	1396.6	1389.6	1375.5	1389.6	1396.6	1403.6	1414.1	1431.7	1459.7	1491.4
10°	1366.7	1368.5	1379.0	1377.3	1379.0	1368.5	1366.7	1363.3	1358.0	1363.3	1382.5
12.5°	1461.5	1477.3	1535.2	1531.6	1535.2	1477.3	1461.5	1391.3	1344.0	1335.2	1338.7
15°	1570.3	1575.5	1587.8	1589.5	1587.8	1575.5	1570.3	1542.2	1400.1	1338.7	1319.4
17.5°	1580.8	1582.6	1591.3	1591.3	1591.3	1582.6	1580.8	1568.5	1521.2	1438.7	1329.9
20°	1572.0	1575.5	1593.1	1596.6	1593.1	1575.5	1572.0	1556.2	1529.9	1500.1	1417.7
22.5°	1568.5	1575.5	1589.5	1587.8	1589.5	1575.5	1568.5	1543.9	1521.2	1500.1	1466.8
25°	1551.0	1551.0	1552.7	1554.5	1552.7	1551.0	1551.0	1531.6	1486.0	1480.8	1461.5
27.5°	1514.1	1517.6	1528.2	1526.4	1528.2	1517.6	1514.1	1507.1	1458.0	1452.7	1438.7
30°	1480.8	1477.3	1468.5	1461.5	1468.5	1477.3	1480.8	1470.2	1421.2	1407.1	1410.6
32.5°	1424.6	1415.8	1407.1	1401.9	1407.1	1415.8	1424.6	1421.2	1384.3	1365.0	1368.5
35°	1358.0	1359.8	1358.0	1352.7	1358.0	1359.8	1358.0	1361.5	1338.7	1321.1	1319.4
37.5°	1310.6	1314.2	1312.3	1305.3	1312.3	1314.2	1310.6	1307.1	1275.5	1270.3	1273.8
40°	1261.5	1263.2	1261.5	1256.3	1261.5	1263.2	1261.5	1254.4	1210.6	1212.4	1224.6
42.5°	1214.1	1212.4	1207.1	1203.6	1207.1	1212.4	1214.1	1203.6	1147.4	1142.2	1165.0
45°	1159.7	1161.5	1150.9	1145.7	1150.9	1161.5	1159.7	1152.7	1094.8	1080.8	1096.6
47.5°	1105.3	1105.3	1096.6	1091.3	1096.6	1105.3	1105.3	1096.6	1035.2	1021.2	1029.9
50°	1047.4	1045.7	1033.4	1031.6	1033.4	1045.7	1047.4	1042.2	977.3	965.0	965.0
52.5°	980.8	980.8	982.5	986.0	982.5	980.8	980.8	982.5	924.6	912.3	908.8
55°	922.9	924.6	936.9	940.4	936.9	924.6	922.9	922.9	870.2	857.9	850.9
57.5°	863.2	863.2	871.9	871.9	871.9	863.2	863.2	859.7	808.8	798.3	794.8
60°	794.8	798.3	805.3	803.6	805.3	798.3	794.8	791.3	747.4	740.4	728.1
62.5°	722.8	726.4	728.1	724.6	728.1	726.4	722.8	712.4	686.0	680.7	664.9
65°	647.4	650.9	652.6	649.1	652.6	650.9	647.4	642.2	622.8	614.1	600.0
67.5°	570.2	568.5	566.7	573.7	566.7	568.5	570.2	563.2	551.0	543.9	524.6
70°	491.2	491.2	489.5	493.0	489.5	491.2	491.2	486.0	479.0	473.7	456.2
72.5°	407.1	405.3	412.3	407.1	412.3	405.3	407.1	405.3	401.7	396.5	379.0
75°	324.6	328.1	324.6	329.8	324.6	328.1	324.6	326.3	324.6	321.1	308.8
77.5°	247.4	250.9	247.4	247.4	247.4	250.9	247.4	249.1	249.1	249.1	238.6
80°	175.5	173.7	173.7	172.0	173.7	173.7	175.5	175.5	177.2	173.7	170.2
82.5°	112.3	110.6	110.6	114.1	110.6	110.6	112.3	114.1	110.6	110.6	110.6
85°	61.4	63.1	59.6	59.6	59.6	63.1	61.4	57.9	61.4	61.4	59.6
87.5°	22.8	21.0	21.0	21.0	21.0	21.0	22.8	24.6	24.6	24.6	26.3
90°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	27.3	36.5	41.0	35.2
92.5°	102.5	98.4	82.1	65.8	82.1	98.4	102.5	145.2	202.2	230.7	202.6
95°	347.8	335.4	286.0	236.7	286.0	335.4	347.8	456.7	601.9	674.5	569.7
97.5°	802.9	779.4	685.4	591.5	685.4	779.4	802.9	871.7	963.5	1009.4	834.5
100°	1127.5	1099.5	987.6	875.7	987.6	1099.5	1127.5	1122.4	1115.7	1112.4	918.3
102.5°	1404.6	1380.6	1284.8	1188.9	1284.8	1380.6	1404.6	1316.9	1199.9	1141.5	944.8
105°	1728.1	1715.2	1663.8	1612.2	1663.8	1715.2	1728.1	1531.5	1269.3	1138.3	947.7
107.5°	1896.4	1899.6	1911.9	1924.4	1911.9	1899.6	1896.4	1622.2	1256.4	1073.6	905.6
110°	1939.5	1952.9	2006.6	2060.3	2006.6	1952.9	1939.5	1632.9	1224.1	1019.7	868.2



TEST NUMBER: P934226

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1912.0	1932.6	2015.1	2097.5	2015.1	1932.6	1912.0	1598.2	1179.8	970.6	835.5
115°	1818.7	1847.3	1961.6	2076.0	1961.6	1847.3	1818.7	1516.4	1113.3	911.8	798.1
117.5°	1689.8	1721.5	1848.3	1975.1	1848.3	1721.5	1689.8	1417.0	1053.2	871.3	774.6
120°	1603.1	1633.8	1757.1	1880.2	1757.1	1633.8	1603.1	1353.7	1021.4	855.2	766.8
122.5°	1516.2	1546.6	1668.1	1789.6	1668.1	1546.6	1516.2	1291.7	992.4	842.7	762.6
125°	1401.4	1429.4	1541.2	1653.2	1541.2	1429.4	1401.4	1210.6	956.4	829.3	759.2
127.5°	1309.2	1332.8	1427.2	1521.6	1427.2	1332.8	1309.2	1145.4	927.1	818.0	757.2
130°	1250.9	1272.7	1360.0	1447.2	1360.0	1272.7	1250.9	1105.2	910.8	813.7	758.4
132.5°	1201.3	1220.8	1299.0	1377.1	1299.0	1220.8	1201.3	1070.9	896.9	809.9	759.2
135°	1131.3	1148.1	1215.4	1282.8	1215.4	1148.1	1131.3	1022.0	876.3	803.4	758.5
137.5°	1079.5	1093.3	1148.4	1203.5	1148.4	1093.3	1079.5	987.1	863.9	802.4	763.2
140°	1038.0	1050.9	1102.3	1153.9	1102.3	1050.9	1038.0	958.2	851.7	798.5	763.9
142.5°	1008.9	1019.9	1064.3	1108.6	1064.3	1019.9	1008.9	938.7	845.3	798.5	766.7
145°	965.2	973.5	1007.1	1040.7	1007.1	973.5	965.2	907.9	831.4	793.2	766.7
147.5°	928.5	935.5	963.2	991.1	963.2	935.5	928.5	883.5	823.3	793.2	772.0
150°	907.4	913.1	935.6	958.2	935.6	913.1	907.4	869.3	818.6	793.2	774.7
152.5°	890.8	895.1	912.1	929.1	912.1	895.1	890.8	858.3	814.9	793.2	776.5
155°	870.8	873.6	884.9	896.2	884.9	873.6	870.8	844.9	810.5	793.2	780.5
157.5°	853.5	855.6	863.4	871.3	863.4	855.6	853.5	833.4	806.6	793.2	784.5
160°	844.9	846.0	850.7	855.2	850.7	846.0	844.9	827.6	804.7	793.2	786.2
162.5°	836.8	837.9	842.2	846.6	842.2	837.9	836.8	822.2	802.9	793.2	788.1
165°	824.4	825.6	830.2	834.7	830.2	825.6	824.4	814.0	800.2	793.2	790.9
167.5°	819.0	819.5	821.5	823.4	821.5	819.5	819.0	812.2	803.1	798.5	796.6
170°	819.0	819.0	819.0	819.0	819.0	819.0	819.0	812.2	803.1	798.5	798.4
172.5°	814.7	814.3	812.6	811.0	812.6	814.3	814.7	809.3	802.1	798.5	798.5
175°	808.8	808.8	808.8	808.8	808.8	808.8	808.8	805.4	800.8	798.5	799.6
177.5°	807.8	807.2	805.3	803.4	805.3	807.2	807.8	805.1	801.5	799.7	800.5
180°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4



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CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1854.5	1854.5	1854.5	1854.5	1854.5
2.5°	1831.7	1840.4	1845.7	1852.7	1870.3
5°	1761.5	1794.8	1805.4	1831.7	1863.3
7.5°	1607.2	1708.8	1736.9	1800.1	1849.2
10°	1458.0	1559.7	1608.9	1758.0	1831.7
12.5°	1382.5	1442.2	1475.6	1684.3	1807.1
15°	1335.2	1377.3	1401.9	1586.1	1779.0
17.5°	1298.3	1328.2	1345.7	1489.6	1740.5
20°	1275.5	1289.6	1305.3	1419.4	1696.6
22.5°	1259.7	1250.9	1263.2	1370.2	1637.0
25°	1249.2	1215.9	1229.9	1331.7	1566.8
27.5°	1258.0	1184.3	1189.5	1296.5	1493.1
30°	1259.7	1145.7	1147.4	1259.7	1410.6
32.5°	1247.4	1105.3	1107.0	1214.1	1317.6
35°	1217.6	1058.0	1056.2	1161.5	1191.3
37.5°	1177.2	1007.1	1007.1	1103.6	1052.7
40°	1128.2	956.2	961.5	1028.1	929.8
42.5°	1068.5	901.8	908.8	928.1	838.6
45°	1003.5	849.2	854.4	784.2	768.4
47.5°	931.6	794.8	796.5	650.9	745.7
50°	845.7	738.6	731.6	557.9	743.9
52.5°	770.2	677.2	656.2	505.3	675.5
55°	696.5	612.3	566.7	465.0	626.4
57.5°	631.6	528.1	484.2	417.5	615.8
60°	572.0	445.6	412.3	366.7	565.0
62.5°	522.9	384.2	377.2	331.6	512.3
65°	470.2	342.1	340.4	301.8	435.1
67.5°	419.4	314.0	312.3	273.7	331.6
70°	364.9	284.2	280.7	243.9	245.7
72.5°	308.8	250.9	247.4	219.3	203.5
75°	252.6	212.3	210.5	191.2	164.9
77.5°	198.3	168.4	172.0	154.4	121.0
80°	142.1	122.8	126.4	110.6	91.2
82.5°	94.7	80.8	84.2	70.2	61.4
85°	52.7	45.6	47.4	36.9	28.1
87.5°	24.6	21.0	21.0	14.0	8.8
90°	23.7	15.1	14.0	9.7	5.4
92.5°	146.2	104.0	94.9	58.2	21.5
95°	360.0	202.7	186.0	118.9	51.8
97.5°	484.9	222.7	207.9	148.7	89.5
100°	530.4	239.4	225.9	172.3	118.6
102.5°	551.2	256.1	243.6	193.5	143.4
105°	566.6	280.9	270.2	227.9	185.5
107.5°	569.6	317.6	307.7	268.2	228.6
110°	565.3	338.1	329.2	293.4	257.8



TEST NUMBER: P934226

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	565.4	362.9	354.3	320.3	286.3
115°	570.7	400.1	392.2	360.8	329.5
117.5°	581.2	436.2	429.0	400.5	372.0
120°	589.8	457.2	450.5	423.7	396.9
122.5°	602.3	482.1	475.3	448.2	421.1
125°	619.1	513.9	507.7	483.0	458.3
127.5°	635.7	544.6	538.4	513.5	488.5
130°	647.9	565.1	558.4	531.6	504.7
132.5°	657.9	581.8	575.1	548.2	521.4
135°	668.6	601.2	595.1	570.7	546.2
137.5°	684.8	626.0	620.0	595.8	571.5
140°	694.7	642.7	637.1	614.9	592.5
142.5°	702.9	655.2	650.0	629.3	608.8
145°	713.8	674.0	669.5	651.5	633.5
147.5°	729.5	697.7	693.4	675.8	658.4
150°	737.8	710.1	706.2	690.3	674.5
152.5°	743.2	718.2	715.2	703.2	691.3
155°	755.1	736.0	733.8	724.9	716.0
157.5°	767.0	753.8	751.6	743.1	734.4
160°	772.4	761.9	760.2	753.5	746.8
162.5°	778.1	770.5	769.3	764.3	759.2
165°	786.3	782.9	781.8	777.2	772.7
167.5°	792.8	789.9	789.4	787.2	785.1
170°	798.2	798.0	797.5	795.3	793.2
172.5°	798.5	798.5	798.4	797.9	797.5
175°	801.7	803.4	803.4	803.4	803.4
177.5°	802.2	803.4	803.4	803.4	803.4
180°	803.4	803.4	803.4	803.4	803.4



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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	10.69	11.54	11.67	12.53	13.83	13.55	14.39	14.52	15.38	16.68
	3H	11.17	11.93	12.16	12.92	14.24	14.90	15.65	15.88	16.65	17.97
	4H	11.36	12.08	12.36	13.08	14.41	15.34	16.06	16.34	17.06	18.39
	6H	11.48	12.14	12.49	13.14	14.48	15.63	16.29	16.64	17.30	18.64
	8H	11.48	12.11	12.49	13.13	14.47	15.71	16.34	16.73	17.36	18.70
	12H	11.45	12.05	12.47	13.06	14.42	15.75	16.35	16.77	17.36	18.73
4H	2H	11.73	12.45	12.73	13.45	14.77	13.95	14.67	14.96	15.67	17.00
	3H	12.76	13.35	13.77	14.38	15.72	15.46	16.06	16.48	17.09	18.43
	4H	13.03	13.58	14.05	14.60	15.96	15.99	16.54	17.02	17.56	18.93
	6H	13.16	13.62	14.19	14.67	16.03	16.36	16.83	17.40	17.88	19.24
	8H	13.16	13.60	14.19	14.64	16.01	16.47	16.91	17.51	17.95	19.33
	12H	13.13	13.52	14.18	14.58	15.96	16.53	16.93	17.59	17.98	19.36
8H	4H	13.49	13.92	14.52	14.96	16.34	16.12	16.56	17.15	17.59	18.97
	6H	13.75	14.11	14.80	15.19	16.56	16.56	16.92	17.62	18.00	19.38
	8H	13.79	14.11	14.85	15.17	16.57	16.71	17.03	17.78	18.10	19.49
	12H	13.77	14.05	14.84	15.11	16.55	16.82	17.10	17.88	18.15	19.59
12H	4H	13.49	13.89	14.54	14.94	16.32	16.08	16.48	17.13	17.53	18.91
	6H	13.81	14.13	14.87	15.19	16.59	16.56	16.87	17.62	17.94	19.33
	8H	13.88	14.16	14.94	15.21	16.65	16.72	17.00	17.79	18.06	19.49