

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: P934438

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934438
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

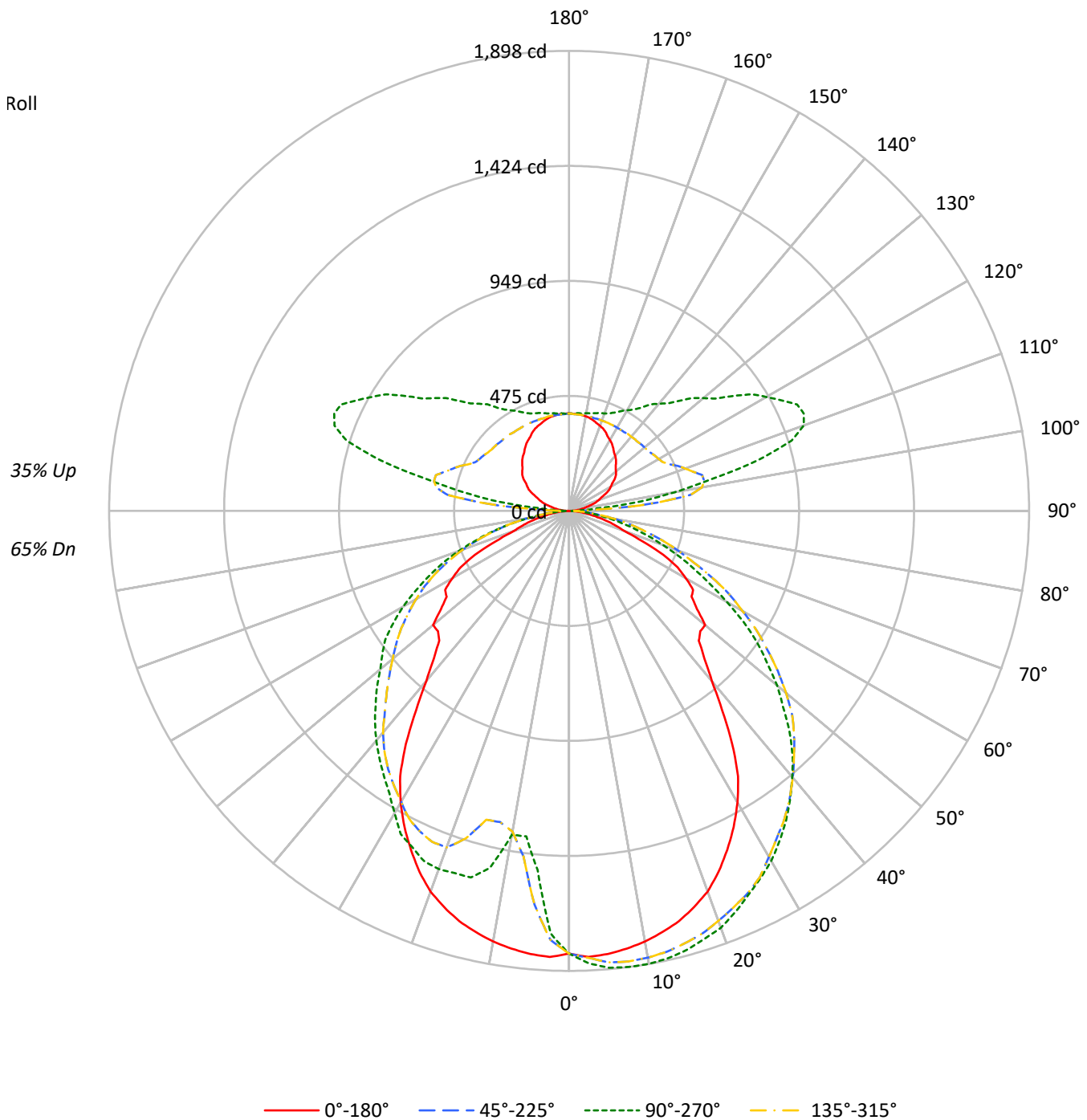
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7341.7 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.8
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	59	59	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	50	50	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	42	42	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	36	36	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	32	32	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	28	28	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	25	25	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11300	11300	11300	11300
5°	11380	11406	11380	8969
10°	11300	11236	11300	8033
15°	11173	10993	11173	9179
20°	10935	10704	10935	9198
25°	10452	10284	10452	9003
30°	9830	9934	9830	8575
35°	8759	9492	8759	8105
40°	7294	8973	7294	7749
45°	6513	8364	6513	7341
50°	6914	7638	6914	6931
55°	6500	6856	6500	6694
60°	6691	5823	6691	6131
65°	6057	4813	6057	5381
70°	4184	3836	4184	4509
75°	3657	2835	3657	3396
80°	2923	1875	2923	2041
85°	1646	994	1646	845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9990 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	2.2
10°-20°	468.1	6.4
20°-30°	723.7	9.9
30°-40°	863.9	11.8
40°-50°	869.0	11.8
50°-60°	756.1	10.3
60°-70°	536.1	7.3
70°-80°	283.6	3.9
80°-90°	72.2	1.0
90°-100°	195.8	2.7
100°-110°	514.8	7.0
110°-120°	533.8	7.3
120°-130°	428.2	5.8
130°-140°	336.0	4.6
140°-150°	257.9	3.5
150°-160°	185.7	2.5
160°-170°	113.6	1.5
170°-180°	38.4	0.5
0°-30°	1356.7	18.5
0°-40°	2220.6	30.2
0°-60°	3845.7	52.4
0°-90°	4737.6	64.5
90°-120°	1244.4	16.9
90°-150°	2266.4	30.9
90°-180°	2604.0	35.5
0°-180°	7341.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1827	1827	1827	1827	1827	
5°	1835	1892	1835	1488	1835	174
15°	1752	1875	1752	1566	1752	493
25°	1543	1749	1543	1531	1543	709
35°	1173	1560	1173	1332	1173	726
45°	757	1286	757	1128	757	606
55°	617	949	617	926	617	567
65°	429	572	429	639	429	410
75°	162	271	162	325	162	171
85°	28	69	28	59	28	37
90°	3	10	3	10	3	3
95°	26	118	26	118	26	29
105°	93	806	93	806	93	98
115°	165	1038	165	1038	165	163
125°	229	827	229	827	229	203
135°	273	641	273	641	273	211
145°	317	520	317	520	317	198
155°	358	448	358	448	358	165
165°	386	417	386	417	386	109
175°	402	404	402	404	402	38
180°	402	402	402	402	402	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1842.2	1842.2	1852.5	1855.9	1855.9	1850.8	1845.6	1850.8	1866.3	1871.6	1869.8
5°	1835.2	1849.1	1868.1	1871.6	1875.0	1873.2	1869.8	1873.2	1890.5	1894.0	1895.7
7.5°	1821.4	1847.3	1871.6	1876.7	1881.8	1876.7	1875.0	1878.4	1895.7	1899.2	1899.2
10°	1804.2	1840.4	1868.1	1871.6	1876.7	1871.6	1871.6	1878.4	1895.7	1899.2	1900.9
12.5°	1779.9	1830.1	1855.9	1859.4	1866.3	1864.6	1862.8	1869.8	1887.1	1890.5	1890.5
15°	1752.3	1811.0	1835.2	1838.7	1850.8	1847.3	1847.3	1854.2	1873.2	1878.4	1876.7
17.5°	1714.2	1786.8	1814.5	1819.7	1828.3	1826.6	1828.3	1835.2	1852.5	1855.9	1857.7
20°	1671.1	1754.0	1786.8	1792.0	1800.7	1800.7	1800.7	1809.3	1826.6	1833.5	1833.5
22.5°	1612.3	1719.5	1754.0	1757.5	1767.9	1767.9	1771.3	1783.4	1798.9	1800.7	1800.7
25°	1543.2	1681.5	1710.8	1721.1	1731.5	1736.7	1741.9	1748.9	1754.0	1752.3	1754.0
27.5°	1470.6	1633.1	1671.1	1678.0	1691.8	1697.0	1703.9	1705.6	1707.4	1712.5	1709.1
30°	1389.4	1565.6	1622.7	1629.6	1652.1	1655.5	1648.6	1652.1	1660.7	1664.2	1667.6
32.5°	1297.8	1465.5	1572.5	1588.1	1608.8	1598.4	1596.8	1601.9	1615.8	1615.8	1619.2
35°	1173.4	1387.7	1525.9	1539.8	1555.3	1543.2	1550.1	1551.8	1560.4	1565.6	1563.9
37.5°	1036.8	1320.3	1477.5	1487.9	1500.0	1484.5	1494.8	1500.0	1506.9	1503.5	1503.5
40°	915.9	1214.8	1420.5	1427.4	1437.8	1425.7	1436.1	1439.5	1443.0	1439.5	1437.8
42.5°	826.0	1099.0	1360.0	1368.7	1361.8	1370.4	1373.8	1380.8	1375.5	1368.7	1368.7
45°	756.9	1068.0	1294.4	1304.7	1294.4	1308.1	1313.4	1313.4	1297.8	1294.4	1292.6
47.5°	734.4	1005.7	1228.7	1228.7	1223.5	1240.7	1249.4	1237.3	1221.7	1216.6	1216.6
50°	732.7	936.7	1138.8	1131.9	1156.1	1176.8	1168.2	1156.1	1144.0	1125.0	1125.0
52.5°	665.3	852.0	1023.0	1049.0	1087.0	1099.0	1085.2	1073.1	1052.4	1043.7	1036.8
55°	617.0	763.8	917.6	969.4	1009.2	1024.7	998.8	986.7	955.7	950.4	947.0
57.5°	606.6	636.0	820.8	886.5	934.9	933.2	917.6	895.1	869.2	864.0	862.4
60°	556.4	459.6	717.2	794.9	845.0	839.9	826.0	805.3	781.1	777.7	774.2
62.5°	504.6	333.6	599.6	687.8	758.7	756.9	744.8	713.7	696.4	687.8	680.9
65°	428.6	279.9	426.9	572.0	674.0	677.4	651.5	629.0	610.0	599.6	598.0
67.5°	326.6	228.1	288.6	476.9	592.7	589.3	556.4	546.1	521.9	516.7	506.3
70°	241.9	152.1	200.5	387.1	513.3	504.6	478.7	466.6	444.1	432.0	425.1
72.5°	200.5	122.7	146.9	300.7	432.0	421.6	399.2	385.4	366.3	356.0	349.1
75°	162.5	129.6	112.3	222.9	350.8	343.9	323.2	309.3	293.8	279.9	281.7
77.5°	119.2	121.0	89.8	164.2	278.2	267.9	255.8	238.5	231.5	217.7	217.7
80°	89.8	95.1	67.4	112.3	200.5	200.5	190.1	178.0	165.9	159.0	159.0
82.5°	60.5	60.5	50.1	70.8	136.6	131.3	124.4	121.0	114.1	110.6	110.6
85°	27.6	34.5	31.1	43.2	74.3	77.8	77.8	74.3	72.6	69.2	70.8
87.5°	8.6	15.5	19.0	24.2	38.0	39.8	41.5	41.5	41.5	43.2	43.2
90°	2.7	4.9	7.1	7.6	11.9	17.6	20.5	18.2	13.6	10.2	10.2
92.5°	10.8	29.1	47.4	52.1	73.2	101.3	115.4	101.1	72.6	51.2	49.2
95°	25.9	59.4	93.0	101.3	180.0	284.9	337.3	301.0	228.4	173.9	167.7
97.5°	44.7	74.4	103.9	111.4	242.5	417.4	504.7	481.8	435.8	401.4	389.6
100°	59.3	86.2	113.0	119.7	265.2	459.2	556.2	557.8	561.2	563.8	549.8
102.5°	71.7	96.8	121.8	128.1	275.6	472.4	570.7	600.0	658.5	702.3	690.4
105°	92.8	114.0	135.2	140.5	283.3	473.9	569.1	634.7	765.7	864.1	857.6
107.5°	114.3	134.1	153.8	158.8	284.8	452.8	536.7	628.1	811.0	948.2	949.7
110°	128.9	146.7	164.6	169.0	282.6	434.1	509.8	612.0	816.5	969.8	976.5



TEST NUMBER: P934438

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	143.2	160.2	177.2	181.5	282.7	417.8	485.3	589.9	799.1	956.0	966.3
115°	164.7	180.4	196.1	200.0	285.3	399.0	455.9	556.7	758.2	909.4	923.7
117.5°	186.0	200.3	214.5	218.1	290.6	387.4	435.7	526.6	708.5	844.9	860.8
120°	198.4	211.8	225.2	228.6	294.9	383.3	427.6	510.7	676.9	801.5	816.9
122.5°	210.6	224.1	237.6	241.0	301.1	381.3	421.4	496.2	645.9	758.1	773.3
125°	229.2	241.5	253.8	256.9	309.5	379.6	414.7	478.2	605.4	700.7	714.6
127.5°	244.3	256.7	269.2	272.3	317.9	378.6	409.0	463.6	572.7	654.5	666.3
130°	252.4	265.8	279.2	282.5	324.0	379.2	406.8	455.4	552.6	625.5	636.4
132.5°	260.7	274.2	287.6	290.9	328.9	379.6	405.0	448.5	535.4	600.7	610.4
135°	273.1	285.3	297.5	300.6	334.3	379.2	401.7	438.2	511.0	565.6	574.1
137.5°	285.8	297.9	309.9	313.0	342.4	381.5	401.1	431.9	493.5	539.7	546.6
140°	296.3	307.5	318.6	321.3	347.3	382.0	399.3	425.9	479.1	518.9	525.4
142.5°	304.3	314.6	324.9	327.5	351.4	383.3	399.3	422.7	469.3	504.4	510.0
145°	316.8	325.8	334.8	337.0	356.9	383.3	396.6	415.7	453.9	482.6	486.8
147.5°	329.2	337.9	346.7	348.9	364.8	386.0	396.6	411.6	441.7	464.3	467.8
150°	337.3	345.2	353.1	355.1	369.0	387.4	396.6	409.3	434.7	453.7	456.5
152.5°	345.6	351.6	357.6	359.1	371.6	388.2	396.6	407.4	429.1	445.3	447.4
155°	358.1	362.5	366.9	368.0	377.5	390.2	396.6	405.2	422.5	435.4	436.8
157.5°	367.2	371.5	375.8	376.9	383.4	392.2	396.6	403.3	416.7	426.8	427.7
160°	373.4	376.7	380.0	380.9	386.1	393.1	396.6	402.4	413.9	422.5	423.0
162.5°	379.6	382.1	384.7	385.3	389.0	394.1	396.6	401.5	411.2	418.4	418.9
165°	386.3	388.6	390.8	391.5	393.2	395.5	396.6	400.1	407.0	412.2	412.8
167.5°	392.5	393.5	394.7	394.9	396.4	398.3	399.3	401.6	406.1	409.5	409.8
170°	396.6	397.6	398.8	399.0	399.1	399.2	399.3	401.6	406.1	409.5	409.5
172.5°	398.8	399.0	399.2	399.3	399.3	399.3	399.3	401.0	404.6	407.3	407.2
175°	401.7	401.7	401.7	401.7	401.0	399.8	399.3	400.4	402.7	404.4	404.4
177.5°	401.7	401.7	401.7	401.7	401.1	400.3	399.8	400.7	402.5	403.8	403.6
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1873.2	1868.1	1873.2	1869.8	1871.6	1866.3	1850.8	1845.6	1850.8	1855.9	1855.9
5°	1895.7	1892.2	1895.7	1895.7	1894.0	1890.5	1873.2	1869.8	1873.2	1875.0	1871.6
7.5°	1902.6	1897.5	1902.6	1899.2	1899.2	1895.7	1878.4	1875.0	1876.7	1881.8	1876.7
10°	1902.6	1897.5	1902.6	1900.9	1899.2	1895.7	1878.4	1871.6	1871.6	1876.7	1871.6
12.5°	1894.0	1890.5	1894.0	1890.5	1890.5	1887.1	1869.8	1862.8	1864.6	1866.3	1859.4
15°	1880.2	1875.0	1880.2	1876.7	1878.4	1873.2	1854.2	1847.3	1847.3	1850.8	1838.7
17.5°	1859.4	1852.5	1859.4	1857.7	1855.9	1852.5	1835.2	1828.3	1826.6	1828.3	1819.7
20°	1835.2	1830.1	1835.2	1833.5	1833.5	1826.6	1809.3	1800.7	1800.7	1800.7	1792.0
22.5°	1797.2	1792.0	1797.2	1800.7	1800.7	1798.9	1783.4	1771.3	1767.9	1767.9	1757.5
25°	1754.0	1748.9	1754.0	1754.0	1752.3	1754.0	1748.9	1741.9	1736.7	1731.5	1721.1
27.5°	1712.5	1709.1	1712.5	1709.1	1712.5	1707.4	1705.6	1703.9	1697.0	1691.8	1678.0
30°	1671.1	1667.6	1671.1	1667.6	1664.2	1660.7	1652.1	1648.6	1655.5	1652.1	1629.6
32.5°	1619.2	1615.8	1619.2	1619.2	1615.8	1615.8	1601.9	1596.8	1598.4	1608.8	1588.1
35°	1565.6	1560.4	1565.6	1563.9	1565.6	1560.4	1551.8	1550.1	1543.2	1555.3	1539.8
37.5°	1503.5	1498.2	1503.5	1503.5	1503.5	1506.9	1500.0	1494.8	1484.5	1500.0	1487.9
40°	1439.5	1432.6	1439.5	1437.8	1439.5	1443.0	1439.5	1436.1	1425.7	1437.8	1427.4
42.5°	1366.9	1365.2	1366.9	1368.7	1368.7	1375.5	1380.8	1373.8	1370.4	1361.8	1368.7
45°	1289.1	1285.7	1289.1	1292.6	1294.4	1297.8	1313.4	1313.4	1308.1	1294.4	1304.7
47.5°	1206.2	1197.6	1206.2	1216.6	1216.6	1221.7	1237.3	1249.4	1240.7	1223.5	1228.7
50°	1118.0	1119.8	1118.0	1125.0	1125.0	1144.0	1156.1	1168.2	1176.8	1156.1	1131.9
52.5°	1031.7	1030.0	1031.7	1036.8	1043.7	1052.4	1073.1	1085.2	1099.0	1087.0	1049.0
55°	945.3	948.7	945.3	947.0	950.4	955.7	986.7	998.8	1024.7	1009.2	969.4
57.5°	858.9	853.6	858.9	862.4	864.0	869.2	895.1	917.6	933.2	934.9	886.5
60°	758.7	751.7	758.7	774.2	777.7	781.1	805.3	826.0	839.9	845.0	794.9
62.5°	670.5	658.4	670.5	680.9	687.8	696.4	713.7	744.8	756.9	758.7	687.8
65°	577.2	572.0	577.2	598.0	599.6	610.0	629.0	651.5	677.4	674.0	572.0
67.5°	492.5	492.5	492.5	506.3	516.7	521.9	546.1	556.4	589.3	592.7	476.9
70°	414.7	413.0	414.7	425.1	432.0	444.1	466.6	478.7	504.6	513.3	387.1
72.5°	340.4	338.7	340.4	349.1	356.0	366.3	385.4	399.2	421.6	432.0	300.7
75°	274.8	271.3	274.8	281.7	279.9	293.8	309.3	323.2	343.9	350.8	222.9
77.5°	210.9	210.9	210.9	217.7	217.7	231.5	238.5	255.8	267.9	278.2	164.2
80°	157.2	155.6	157.2	159.0	159.0	165.9	178.0	190.1	200.5	200.5	112.3
82.5°	110.6	107.2	110.6	110.6	110.6	114.1	121.0	124.4	131.3	136.6	70.8
85°	69.2	69.2	69.2	70.8	69.2	72.6	74.3	77.8	77.8	74.3	43.2
87.5°	44.9	43.2	44.9	43.2	43.2	41.5	41.5	41.5	39.8	38.0	24.2
90°	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.5	17.6	11.9	7.6
92.5°	41.0	32.9	41.0	49.2	51.2	72.6	101.1	115.4	101.3	73.2	52.1
95°	143.0	118.3	143.0	167.7	173.9	228.4	301.0	337.3	284.9	180.0	101.3
97.5°	342.7	295.8	342.7	389.6	401.4	435.8	481.8	504.7	417.4	242.5	111.4
100°	493.8	437.8	493.8	549.8	563.8	561.2	557.8	556.2	459.2	265.2	119.7
102.5°	642.4	594.5	642.4	690.4	702.3	658.5	600.0	570.7	472.4	275.6	128.1
105°	831.9	806.1	831.9	857.6	864.1	765.7	634.7	569.1	473.9	283.3	140.5
107.5°	955.9	962.2	955.9	949.7	948.2	811.0	628.1	536.7	452.8	284.8	158.8
110°	1003.3	1030.1	1003.3	976.5	969.8	816.5	612.0	509.8	434.1	282.6	169.0



TEST NUMBER: P934438

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1007.5	1048.7	1007.5	966.3	956.0	799.1	589.9	485.3	417.8	282.7	181.5
115°	980.8	1038.0	980.8	923.7	909.4	758.2	556.7	455.9	399.0	285.3	200.0
117.5°	924.2	987.6	924.2	860.8	844.9	708.5	526.6	435.7	387.4	290.6	218.1
120°	878.5	940.1	878.5	816.9	801.5	676.9	510.7	427.6	383.3	294.9	228.6
122.5°	834.1	894.8	834.1	773.3	758.1	645.9	496.2	421.4	381.3	301.1	241.0
125°	770.6	826.6	770.6	714.6	700.7	605.4	478.2	414.7	379.6	309.5	256.9
127.5°	713.6	760.8	713.6	666.3	654.5	572.7	463.6	409.0	378.6	317.9	272.3
130°	680.0	723.6	680.0	636.4	625.5	552.6	455.4	406.8	379.2	324.0	282.5
132.5°	649.5	688.6	649.5	610.4	600.7	535.4	448.5	405.0	379.6	328.9	290.9
135°	607.7	641.4	607.7	574.1	565.6	511.0	438.2	401.7	379.2	334.3	300.6
137.5°	574.2	601.8	574.2	546.6	539.7	493.5	431.9	401.1	381.5	342.4	313.0
140°	551.1	576.9	551.1	525.4	518.9	479.1	425.9	399.3	382.0	347.3	321.3
142.5°	532.1	554.3	532.1	510.0	504.4	469.3	422.7	399.3	383.3	351.4	327.5
145°	503.6	520.3	503.6	486.8	482.6	453.9	415.7	396.6	383.3	356.9	337.0
147.5°	481.6	495.5	481.6	467.8	464.3	441.7	411.6	396.6	386.0	364.8	348.9
150°	467.8	479.1	467.8	456.5	453.7	434.7	409.3	396.6	387.4	369.0	355.1
152.5°	456.0	464.5	456.0	447.4	445.3	429.1	407.4	396.6	388.2	371.6	359.1
155°	442.5	448.1	442.5	436.8	435.4	422.5	405.2	396.6	390.2	377.5	368.0
157.5°	431.7	435.7	431.7	427.7	426.8	416.7	403.3	396.6	392.2	383.4	376.9
160°	425.3	427.6	425.3	423.0	422.5	413.9	402.4	396.6	393.1	386.1	380.9
162.5°	421.1	423.3	421.1	418.9	418.4	411.2	401.5	396.6	394.1	389.0	385.3
165°	415.1	417.4	415.1	412.8	412.2	407.0	400.1	396.6	395.5	393.2	391.5
167.5°	410.7	411.7	410.7	409.8	409.5	406.1	401.6	399.3	398.3	396.4	394.9
170°	409.5	409.5	409.5	409.5	409.5	406.1	401.6	399.3	399.2	399.1	399.0
172.5°	406.3	405.5	406.3	407.2	407.3	404.6	401.0	399.3	399.3	399.3	399.3
175°	404.4	404.4	404.4	404.4	404.4	402.7	400.4	399.3	399.8	401.0	401.7
177.5°	402.7	401.7	402.7	403.6	403.8	402.5	400.7	399.8	400.3	401.1	401.7
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



TEST NUMBER: P934438

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1852.5	1842.2	1842.2	1824.8	1817.9	1812.8	1804.2	1778.2	1771.3	1764.4	1774.8
5°	1868.1	1849.1	1835.2	1804.2	1778.2	1767.9	1735.0	1672.8	1631.3	1600.2	1582.9
7.5°	1871.6	1847.3	1821.4	1773.0	1710.8	1683.1	1582.9	1468.9	1437.8	1410.1	1392.8
10°	1868.1	1840.4	1804.2	1731.5	1584.7	1536.3	1436.1	1361.8	1342.8	1337.5	1342.8
12.5°	1855.9	1830.1	1779.9	1659.0	1453.3	1420.5	1361.8	1318.5	1315.1	1323.7	1370.4
15°	1835.2	1811.0	1752.3	1562.2	1380.8	1356.5	1315.1	1299.5	1318.5	1379.0	1519.0
17.5°	1814.5	1786.8	1714.2	1467.1	1325.4	1308.1	1278.8	1309.9	1417.1	1498.2	1544.9
20°	1786.8	1754.0	1671.1	1398.0	1285.7	1270.1	1256.3	1396.3	1477.5	1506.9	1532.8
22.5°	1754.0	1719.5	1612.3	1349.6	1244.2	1232.1	1240.7	1444.7	1477.5	1498.2	1520.7
25°	1710.8	1681.5	1543.2	1311.6	1211.4	1197.6	1230.4	1439.5	1458.5	1463.7	1508.6
27.5°	1671.1	1633.1	1470.6	1277.1	1171.7	1166.4	1239.1	1417.1	1430.8	1436.1	1484.5
30°	1622.7	1565.6	1389.4	1240.7	1130.2	1128.4	1240.7	1389.4	1385.9	1399.8	1448.1
32.5°	1572.5	1465.5	1297.8	1195.8	1090.4	1088.7	1228.7	1347.9	1344.4	1363.4	1399.8
35°	1525.9	1387.7	1173.4	1144.0	1040.3	1042.0	1199.3	1299.5	1301.2	1318.5	1341.0
37.5°	1477.5	1320.3	1036.8	1087.0	991.9	991.9	1159.5	1254.6	1251.1	1256.3	1287.4
40°	1420.5	1214.8	915.9	1012.7	947.0	941.8	1111.1	1206.2	1194.1	1192.4	1235.6
42.5°	1360.0	1099.0	826.0	914.2	895.1	888.3	1052.4	1147.4	1125.0	1130.2	1185.4
45°	1294.4	1068.0	756.9	772.4	841.6	836.4	988.5	1080.0	1064.5	1078.4	1135.4
47.5°	1228.7	1005.7	734.4	641.1	784.6	782.8	917.6	1014.3	1005.7	1019.6	1080.0
50°	1138.8	936.7	732.7	549.6	720.6	727.5	833.0	950.4	950.4	962.6	1026.5
52.5°	1023.0	852.0	665.3	497.7	646.3	667.0	758.7	895.1	898.6	910.7	967.7
55°	917.6	763.8	617.0	457.9	558.2	603.1	686.0	838.1	845.0	857.1	909.0
57.5°	820.8	636.0	606.6	411.3	476.9	520.2	622.1	782.8	786.3	796.7	846.7
60°	717.2	459.6	556.4	361.2	406.1	438.9	563.3	717.2	729.3	736.2	779.3
62.5°	599.6	333.6	504.6	326.6	371.6	378.5	514.9	655.0	670.5	675.7	701.6
65°	426.9	279.9	428.6	297.2	335.2	337.0	463.1	591.0	604.8	613.5	632.5
67.5°	288.6	228.1	326.6	269.5	307.6	309.3	413.0	516.7	535.7	542.6	554.7
70°	200.5	152.1	241.9	240.2	276.5	279.9	359.5	449.3	466.6	471.8	478.7
72.5°	146.9	122.7	200.5	216.0	243.6	247.1	304.2	373.2	390.6	395.7	399.2
75°	112.3	129.6	162.5	188.4	207.4	209.1	248.9	304.2	316.2	319.7	321.4
77.5°	89.8	121.0	119.2	152.1	169.3	165.9	195.2	235.0	245.4	245.4	245.4
80°	67.4	95.1	89.8	108.8	124.4	121.0	140.0	167.6	171.1	174.5	172.8
82.5°	50.1	60.5	60.5	69.2	82.9	79.5	93.3	108.8	108.8	108.8	112.3
85°	31.1	34.5	27.6	36.3	46.7	44.9	51.9	58.8	60.5	60.5	57.0
87.5°	19.0	15.5	8.6	13.9	20.8	20.8	24.2	25.9	24.2	24.2	24.2
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.6	20.5	18.2	13.6
92.5°	47.4	29.1	10.8	29.1	47.4	52.1	73.2	101.3	115.4	101.1	72.6
95°	93.0	59.4	25.9	59.4	93.0	101.3	180.0	284.9	337.3	301.0	228.4
97.5°	103.9	74.4	44.7	74.4	103.9	111.4	242.5	417.4	504.7	481.8	435.8
100°	113.0	86.2	59.3	86.2	113.0	119.7	265.2	459.2	556.2	557.8	561.2
102.5°	121.8	96.8	71.7	96.8	121.8	128.1	275.6	472.4	570.7	600.0	658.5
105°	135.2	114.0	92.8	114.0	135.2	140.5	283.3	473.9	569.1	634.7	765.7
107.5°	153.8	134.1	114.3	134.1	153.8	158.8	284.8	452.8	536.7	628.1	811.0
110°	164.6	146.7	128.9	146.7	164.6	169.0	282.6	434.1	509.8	612.0	816.5



TEST NUMBER: P934438

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	177.2	160.2	143.2	160.2	177.2	181.5	282.7	417.8	485.3	589.9	799.1
115°	196.1	180.4	164.7	180.4	196.1	200.0	285.3	399.0	455.9	556.7	758.2
117.5°	214.5	200.3	186.0	200.3	214.5	218.1	290.6	387.4	435.7	526.6	708.5
120°	225.2	211.8	198.4	211.8	225.2	228.6	294.9	383.3	427.6	510.7	676.9
122.5°	237.6	224.1	210.6	224.1	237.6	241.0	301.1	381.3	421.4	496.2	645.9
125°	253.8	241.5	229.2	241.5	253.8	256.9	309.5	379.6	414.7	478.2	605.4
127.5°	269.2	256.7	244.3	256.7	269.2	272.3	317.9	378.6	409.0	463.6	572.7
130°	279.2	265.8	252.4	265.8	279.2	282.5	324.0	379.2	406.8	455.4	552.6
132.5°	287.6	274.2	260.7	274.2	287.6	290.9	328.9	379.6	405.0	448.5	535.4
135°	297.5	285.3	273.1	285.3	297.5	300.6	334.3	379.2	401.7	438.2	511.0
137.5°	309.9	297.9	285.8	297.9	309.9	313.0	342.4	381.5	401.1	431.9	493.5
140°	318.6	307.5	296.3	307.5	318.6	321.3	347.3	382.0	399.3	425.9	479.1
142.5°	324.9	314.6	304.3	314.6	324.9	327.5	351.4	383.3	399.3	422.7	469.3
145°	334.8	325.8	316.8	325.8	334.8	337.0	356.9	383.3	396.6	415.7	453.9
147.5°	346.7	337.9	329.2	337.9	346.7	348.9	364.8	386.0	396.6	411.6	441.7
150°	353.1	345.2	337.3	345.2	353.1	355.1	369.0	387.4	396.6	409.3	434.7
152.5°	357.6	351.6	345.6	351.6	357.6	359.1	371.6	388.2	396.6	407.4	429.1
155°	366.9	362.5	358.1	362.5	366.9	368.0	377.5	390.2	396.6	405.2	422.5
157.5°	375.8	371.5	367.2	371.5	375.8	376.9	383.4	392.2	396.6	403.3	416.7
160°	380.0	376.7	373.4	376.7	380.0	380.9	386.1	393.1	396.6	402.4	413.9
162.5°	384.7	382.1	379.6	382.1	384.7	385.3	389.0	394.1	396.6	401.5	411.2
165°	390.8	388.6	386.3	388.6	390.8	391.5	393.2	395.5	396.6	400.1	407.0
167.5°	394.7	393.5	392.5	393.5	394.7	394.9	396.4	398.3	399.3	401.6	406.1
170°	398.8	397.6	396.6	397.6	398.8	399.0	399.1	399.2	399.3	401.6	406.1
172.5°	399.2	399.0	398.8	399.0	399.2	399.3	399.3	399.3	399.3	401.0	404.6
175°	401.7	401.7	401.7	401.7	401.7	401.7	401.0	399.8	399.3	400.4	402.7
177.5°	401.7	401.7	401.7	401.7	401.7	401.7	401.1	400.3	399.8	400.7	402.5
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



TEST NUMBER: P934438

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1762.6	1757.5	1764.4	1745.4	1764.4	1757.5	1762.6	1774.8	1764.4	1771.3	1778.2
5°	1546.6	1538.0	1510.4	1487.9	1510.4	1538.0	1546.6	1582.9	1600.2	1631.3	1672.8
7.5°	1382.4	1375.5	1368.7	1354.8	1368.7	1375.5	1382.4	1392.8	1410.1	1437.8	1468.9
10°	1346.2	1347.9	1358.3	1356.5	1358.3	1347.9	1346.2	1342.8	1337.5	1342.8	1361.8
12.5°	1439.5	1455.1	1512.1	1508.6	1512.1	1455.1	1439.5	1370.4	1323.7	1315.1	1318.5
15°	1546.6	1551.8	1563.9	1565.6	1563.9	1551.8	1546.6	1519.0	1379.0	1318.5	1299.5
17.5°	1557.0	1558.8	1567.4	1567.4	1567.4	1558.8	1557.0	1544.9	1498.2	1417.1	1309.9
20°	1548.4	1551.8	1569.1	1572.5	1569.1	1551.8	1548.4	1532.8	1506.9	1477.5	1396.3
22.5°	1544.9	1551.8	1565.6	1563.9	1565.6	1551.8	1544.9	1520.7	1498.2	1477.5	1444.7
25°	1527.6	1527.6	1529.4	1531.1	1529.4	1527.6	1527.6	1508.6	1463.7	1458.5	1439.5
27.5°	1491.4	1494.8	1505.1	1503.5	1505.1	1494.8	1491.4	1484.5	1436.1	1430.8	1417.1
30°	1458.5	1455.1	1446.4	1439.5	1446.4	1455.1	1458.5	1448.1	1399.8	1385.9	1389.4
32.5°	1403.2	1394.6	1385.9	1380.8	1385.9	1394.6	1403.2	1399.8	1363.4	1344.4	1347.9
35°	1337.5	1339.3	1337.5	1332.4	1337.5	1339.3	1337.5	1341.0	1318.5	1301.2	1299.5
37.5°	1290.9	1294.4	1292.6	1285.7	1292.6	1294.4	1290.9	1287.4	1256.3	1251.1	1254.6
40°	1242.5	1244.2	1242.5	1237.3	1242.5	1244.2	1242.5	1235.6	1192.4	1194.1	1206.2
42.5°	1195.8	1194.1	1188.9	1185.4	1188.9	1194.1	1195.8	1185.4	1130.2	1125.0	1147.4
45°	1142.3	1144.0	1133.6	1128.4	1133.6	1144.0	1142.3	1135.4	1078.4	1064.5	1080.0
47.5°	1088.7	1088.7	1080.0	1074.9	1080.0	1088.7	1088.7	1080.0	1019.6	1005.7	1014.3
50°	1031.7	1030.0	1017.8	1016.1	1017.8	1030.0	1031.7	1026.5	962.6	950.4	950.4
52.5°	966.0	966.0	967.7	971.2	967.7	966.0	966.0	967.7	910.7	898.6	895.1
55°	909.0	910.7	922.8	926.3	922.8	910.7	909.0	909.0	857.1	845.0	838.1
57.5°	850.2	850.2	858.9	858.9	858.9	850.2	850.2	846.7	796.7	786.3	782.8
60°	782.8	786.3	793.2	791.5	793.2	786.3	782.8	779.3	736.2	729.3	717.2
62.5°	711.9	715.4	717.2	713.7	717.2	715.4	711.9	701.6	675.7	670.5	655.0
65°	637.6	641.1	642.9	639.4	642.9	641.1	637.6	632.5	613.5	604.8	591.0
67.5°	561.6	559.9	558.2	565.1	558.2	559.9	561.6	554.7	542.6	535.7	516.7
70°	483.9	483.9	482.1	485.5	482.1	483.9	483.9	478.7	471.8	466.6	449.3
72.5°	400.9	399.2	406.1	400.9	406.1	399.2	400.9	399.2	395.7	390.6	373.2
75°	319.7	323.2	319.7	324.9	319.7	323.2	319.7	321.4	319.7	316.2	304.2
77.5°	243.6	247.1	243.6	243.6	243.6	247.1	243.6	245.4	245.4	245.4	235.0
80°	172.8	171.1	171.1	169.3	171.1	171.1	172.8	172.8	174.5	171.1	167.6
82.5°	110.6	108.8	108.8	112.3	108.8	108.8	110.6	112.3	108.8	108.8	108.8
85°	60.5	62.2	58.8	58.8	58.8	62.2	60.5	57.0	60.5	60.5	58.8
87.5°	22.5	20.8	20.8	20.8	20.8	20.8	22.5	24.2	24.2	24.2	25.9
90°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.5	17.6
92.5°	51.2	49.2	41.0	32.9	41.0	49.2	51.2	72.6	101.1	115.4	101.3
95°	173.9	167.7	143.0	118.3	143.0	167.7	173.9	228.4	301.0	337.3	284.9
97.5°	401.4	389.6	342.7	295.8	342.7	389.6	401.4	435.8	481.8	504.7	417.4
100°	563.8	549.8	493.8	437.8	493.8	549.8	563.8	561.2	557.8	556.2	459.2
102.5°	702.3	690.4	642.4	594.5	642.4	690.4	702.3	658.5	600.0	570.7	472.4
105°	864.1	857.6	831.9	806.1	831.9	857.6	864.1	765.7	634.7	569.1	473.9
107.5°	948.2	949.7	955.9	962.2	955.9	949.7	948.2	811.0	628.1	536.7	452.8
110°	969.8	976.5	1003.3	1030.1	1003.3	976.5	969.8	816.5	612.0	509.8	434.1



TEST NUMBER: P934438

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	956.0	966.3	1007.5	1048.7	1007.5	966.3	956.0	799.1	589.9	485.3	417.8
115°	909.4	923.7	980.8	1038.0	980.8	923.7	909.4	758.2	556.7	455.9	399.0
117.5°	844.9	860.8	924.2	987.6	924.2	860.8	844.9	708.5	526.6	435.7	387.4
120°	801.5	816.9	878.5	940.1	878.5	816.9	801.5	676.9	510.7	427.6	383.3
122.5°	758.1	773.3	834.1	894.8	834.1	773.3	758.1	645.9	496.2	421.4	381.3
125°	700.7	714.6	770.6	826.6	770.6	714.6	700.7	605.4	478.2	414.7	379.6
127.5°	654.5	666.3	713.6	760.8	713.6	666.3	654.5	572.7	463.6	409.0	378.6
130°	625.5	636.4	680.0	723.6	680.0	636.4	625.5	552.6	455.4	406.8	379.2
132.5°	600.7	610.4	649.5	688.6	649.5	610.4	600.7	535.4	448.5	405.0	379.6
135°	565.6	574.1	607.7	641.4	607.7	574.1	565.6	511.0	438.2	401.7	379.2
137.5°	539.7	546.6	574.2	601.8	574.2	546.6	539.7	493.5	431.9	401.1	381.5
140°	518.9	525.4	551.1	576.9	551.1	525.4	518.9	479.1	425.9	399.3	382.0
142.5°	504.4	510.0	532.1	554.3	532.1	510.0	504.4	469.3	422.7	399.3	383.3
145°	482.6	486.8	503.6	520.3	503.6	486.8	482.6	453.9	415.7	396.6	383.3
147.5°	464.3	467.8	481.6	495.5	481.6	467.8	464.3	441.7	411.6	396.6	386.0
150°	453.7	456.5	467.8	479.1	467.8	456.5	453.7	434.7	409.3	396.6	387.4
152.5°	445.3	447.4	456.0	464.5	456.0	447.4	445.3	429.1	407.4	396.6	388.2
155°	435.4	436.8	442.5	448.1	442.5	436.8	435.4	422.5	405.2	396.6	390.2
157.5°	426.8	427.7	431.7	435.7	431.7	427.7	426.8	416.7	403.3	396.6	392.2
160°	422.5	423.0	425.3	427.6	425.3	423.0	422.5	413.9	402.4	396.6	393.1
162.5°	418.4	418.9	421.1	423.3	421.1	418.9	418.4	411.2	401.5	396.6	394.1
165°	412.2	412.8	415.1	417.4	415.1	412.8	412.2	407.0	400.1	396.6	395.5
167.5°	409.5	409.8	410.7	411.7	410.7	409.8	409.5	406.1	401.6	399.3	398.3
170°	409.5	409.5	409.5	409.5	409.5	409.5	409.5	406.1	401.6	399.3	399.2
172.5°	407.3	407.2	406.3	405.5	406.3	407.2	407.3	404.6	401.0	399.3	399.3
175°	404.4	404.4	404.4	404.4	404.4	404.4	404.4	402.7	400.4	399.3	399.8
177.5°	403.8	403.6	402.7	401.7	402.7	403.6	403.8	402.5	400.7	399.8	400.3
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



TEST NUMBER: P934438

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1804.2	1812.8	1817.9	1824.8	1842.2
5°	1735.0	1767.9	1778.2	1804.2	1835.2
7.5°	1582.9	1683.1	1710.8	1773.0	1821.4
10°	1436.1	1536.3	1584.7	1731.5	1804.2
12.5°	1361.8	1420.5	1453.3	1659.0	1779.9
15°	1315.1	1356.5	1380.8	1562.2	1752.3
17.5°	1278.8	1308.1	1325.4	1467.1	1714.2
20°	1256.3	1270.1	1285.7	1398.0	1671.1
22.5°	1240.7	1232.1	1244.2	1349.6	1612.3
25°	1230.4	1197.6	1211.4	1311.6	1543.2
27.5°	1239.1	1166.4	1171.7	1277.1	1470.6
30°	1240.7	1128.4	1130.2	1240.7	1389.4
32.5°	1228.7	1088.7	1090.4	1195.8	1297.8
35°	1199.3	1042.0	1040.3	1144.0	1173.4
37.5°	1159.5	991.9	991.9	1087.0	1036.8
40°	1111.1	941.8	947.0	1012.7	915.9
42.5°	1052.4	888.3	895.1	914.2	826.0
45°	988.5	836.4	841.6	772.4	756.9
47.5°	917.6	782.8	784.6	641.1	734.4
50°	833.0	727.5	720.6	549.6	732.7
52.5°	758.7	667.0	646.3	497.7	665.3
55°	686.0	603.1	558.2	457.9	617.0
57.5°	622.1	520.2	476.9	411.3	606.6
60°	563.3	438.9	406.1	361.2	556.4
62.5°	514.9	378.5	371.6	326.6	504.6
65°	463.1	337.0	335.2	297.2	428.6
67.5°	413.0	309.3	307.6	269.5	326.6
70°	359.5	279.9	276.5	240.2	241.9
72.5°	304.2	247.1	243.6	216.0	200.5
75°	248.9	209.1	207.4	188.4	162.5
77.5°	195.2	165.9	169.3	152.1	119.2
80°	140.0	121.0	124.4	108.8	89.8
82.5°	93.3	79.5	82.9	69.2	60.5
85°	51.9	44.9	46.7	36.3	27.6
87.5°	24.2	20.8	20.8	13.9	8.6
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.2	52.1	47.4	29.1	10.8
95°	180.0	101.3	93.0	59.4	25.9
97.5°	242.5	111.4	103.9	74.4	44.7
100°	265.2	119.7	113.0	86.2	59.3
102.5°	275.6	128.1	121.8	96.8	71.7
105°	283.3	140.5	135.2	114.0	92.8
107.5°	284.8	158.8	153.8	134.1	114.3
110°	282.6	169.0	164.6	146.7	128.9



TEST NUMBER: P934438

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	282.7	181.5	177.2	160.2	143.2
115°	285.3	200.0	196.1	180.4	164.7
117.5°	290.6	218.1	214.5	200.3	186.0
120°	294.9	228.6	225.2	211.8	198.4
122.5°	301.1	241.0	237.6	224.1	210.6
125°	309.5	256.9	253.8	241.5	229.2
127.5°	317.9	272.3	269.2	256.7	244.3
130°	324.0	282.5	279.2	265.8	252.4
132.5°	328.9	290.9	287.6	274.2	260.7
135°	334.3	300.6	297.5	285.3	273.1
137.5°	342.4	313.0	309.9	297.9	285.8
140°	347.3	321.3	318.6	307.5	296.3
142.5°	351.4	327.5	324.9	314.6	304.3
145°	356.9	337.0	334.8	325.8	316.8
147.5°	364.8	348.9	346.7	337.9	329.2
150°	369.0	355.1	353.1	345.2	337.3
152.5°	371.6	359.1	357.6	351.6	345.6
155°	377.5	368.0	366.9	362.5	358.1
157.5°	383.4	376.9	375.8	371.5	367.2
160°	386.1	380.9	380.0	376.7	373.4
162.5°	389.0	385.3	384.7	382.1	379.6
165°	393.2	391.5	390.8	388.6	386.3
167.5°	396.4	394.9	394.7	393.5	392.5
170°	399.1	399.0	398.8	397.6	396.6
172.5°	399.3	399.3	399.2	399.0	398.8
175°	401.0	401.7	401.7	401.7	401.7
177.5°	401.1	401.7	401.7	401.7	401.7
180°	401.7	401.7	401.7	401.7	401.7



TEST NUMBER: P934438
 CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.47	15.48	15.29	16.32	17.37	17.29	18.30	18.12	19.15	20.20
	3H	14.96	15.86	15.79	16.72	17.79	18.65	19.55	19.48	20.41	21.48
	4H	15.16	16.01	16.01	16.87	17.96	19.10	19.95	19.95	20.81	21.90
	6H	15.28	16.07	16.15	16.94	18.04	19.39	20.18	20.25	21.05	22.15
	8H	15.29	16.04	16.16	16.93	18.02	19.47	20.22	20.34	21.11	22.20
	12H	15.26	15.98	16.14	16.86	17.98	19.51	20.23	20.39	21.11	22.23
4H	2H	15.52	16.37	16.37	17.23	18.32	17.72	18.58	18.58	19.44	20.52
	3H	16.56	17.27	17.43	18.17	19.27	19.24	19.95	20.11	20.85	21.95
	4H	16.84	17.49	17.72	18.38	19.51	19.77	20.42	20.65	21.31	22.44
	6H	16.98	17.54	17.87	18.45	19.58	20.14	20.71	21.04	21.62	22.75
	8H	16.98	17.51	17.88	18.42	19.56	20.25	20.78	21.15	21.69	22.83
	12H	16.96	17.43	17.88	18.36	19.51	20.32	20.79	21.23	21.72	22.87
8H	4H	17.31	17.83	18.20	18.74	19.88	19.91	20.43	20.81	21.34	22.49
	6H	17.57	18.01	18.50	18.96	20.10	20.35	20.78	21.28	21.73	22.88
	8H	17.62	18.00	18.55	18.94	20.11	20.50	20.89	21.44	21.83	22.99
	12H	17.61	17.95	18.55	18.88	20.09	20.61	20.94	21.55	21.88	23.09
12H	4H	17.32	17.79	18.24	18.72	19.87	19.88	20.35	20.80	21.28	22.43
	6H	17.64	18.02	18.57	18.96	20.12	20.35	20.73	21.28	21.68	22.84
	8H	17.71	18.05	18.65	18.98	20.19	20.52	20.85	21.45	21.79	23.00