

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: P934038

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934038
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-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: -

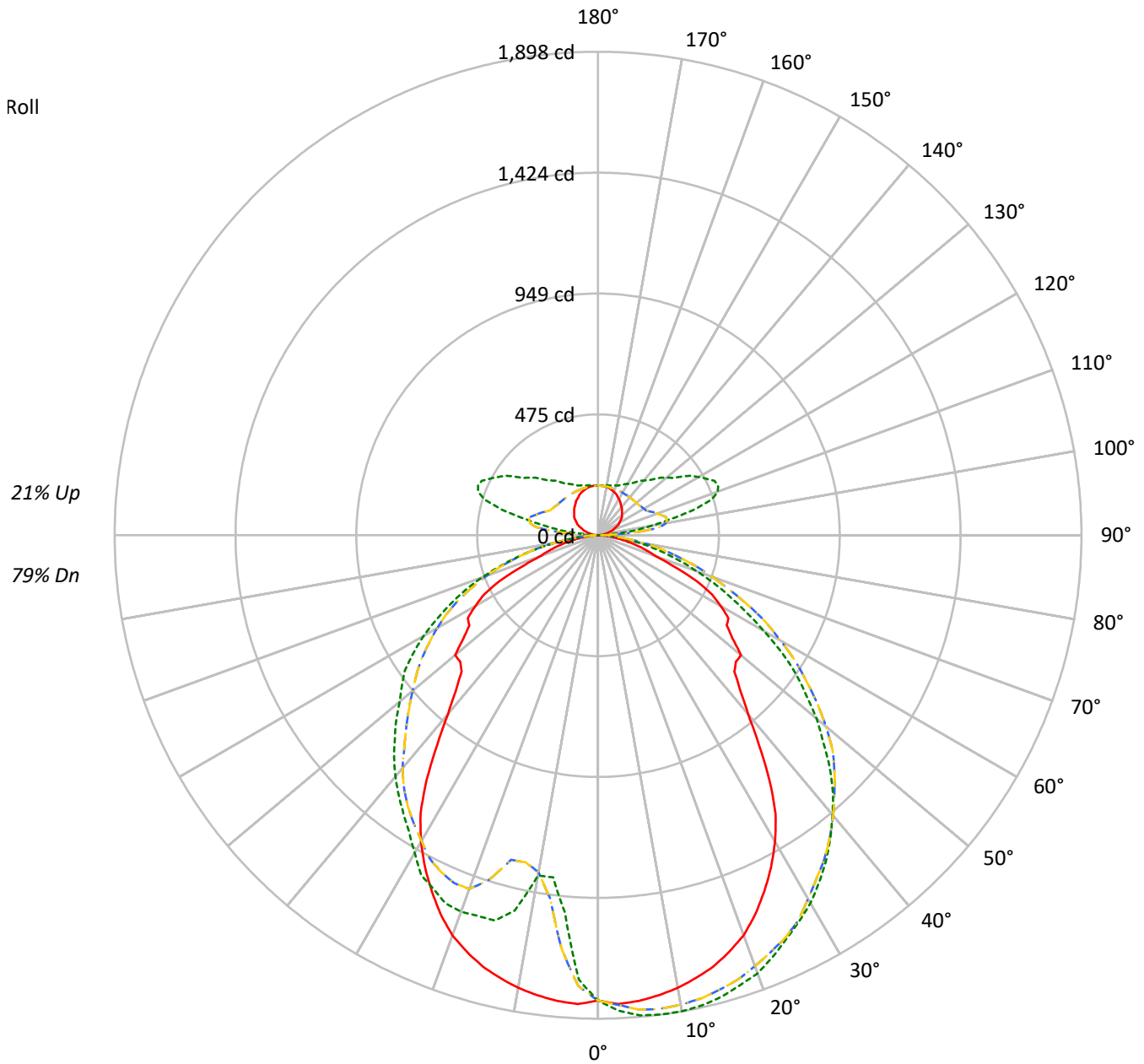
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6002.2 lumens
Efficiency: N/A
Efficacy: 103.1 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): 58.2
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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CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-3000K

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				
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

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	2.7
10°-20°	468.1	7.8
20°-30°	723.7	12.1
30°-40°	863.9	14.4
40°-50°	869.0	14.5
50°-60°	756.1	12.6
60°-70°	536.1	8.9
70°-80°	283.6	4.7
80°-90°	71.4	1.2
90°-100°	95.1	1.6
100°-110°	250.2	4.2
110°-120°	259.4	4.3
120°-130°	208.1	3.5
130°-140°	163.3	2.7
140°-150°	125.3	2.1
150°-160°	90.2	1.5
160°-170°	55.2	0.9
170°-180°	18.7	0.3
0°-30°	1356.7	22.6
0°-40°	2220.6	37.0
0°-60°	3845.7	64.1
0°-90°	4736.8	78.9
90°-120°	604.7	10.1
90°-150°	1101.3	18.3
90°-180°	1265.0	21.1
0°-180°	6002.2	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°	1	5	1	5	1	2
95°	13	58	13	58	13	14
105°	45	392	45	392	45	48
115°	80	504	80	504	80	79
125°	111	402	111	402	111	99
135°	133	312	133	312	133	103
145°	154	253	154	253	154	96
155°	174	218	174	218	174	80
165°	188	203	188	203	188	53
175°	195	197	195	197	195	19
180°	195	195	195	195	195	



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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°	1.3	2.4	3.4	3.7	5.8	8.5	9.9	8.8	6.6	5.0	5.0
92.5°	5.2	14.1	23.0	25.3	35.6	49.3	56.1	49.1	35.2	24.9	23.9
95°	12.6	28.9	45.2	49.3	87.5	138.4	163.9	146.2	110.9	84.5	81.5
97.5°	21.7	36.1	50.5	54.1	117.8	202.7	245.2	234.1	211.8	195.1	189.4
100°	28.9	41.9	54.9	58.2	128.9	223.2	270.2	271.0	272.7	273.9	267.1
102.5°	34.9	47.1	59.2	62.3	133.9	229.5	277.3	291.5	319.9	341.3	335.5
105°	45.1	55.4	65.7	68.3	137.7	230.2	276.5	308.4	372.1	419.9	416.7
107.5°	55.5	65.1	74.7	77.2	138.4	220.0	260.8	305.3	394.2	460.8	461.6
110°	62.6	71.3	80.0	82.1	137.3	210.9	247.7	297.5	396.8	471.2	474.5



TEST NUMBER: P934038

CATALOG NUMBER: SQ4-FA-025U-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°	69.6	77.9	86.1	88.2	137.3	203.0	235.8	286.6	388.3	464.5	469.5
115°	80.1	87.7	95.3	97.2	138.7	193.9	221.5	270.5	368.4	441.9	448.8
117.5°	90.4	97.3	104.2	106.0	141.2	188.2	211.7	255.9	344.3	410.6	418.2
120°	96.4	103.0	109.4	111.1	143.4	186.4	207.8	248.2	328.9	389.5	397.0
122.5°	102.3	108.9	115.5	117.1	146.3	185.3	204.8	241.1	313.8	368.4	375.8
125°	111.4	117.4	123.4	124.9	150.4	184.5	201.5	232.4	294.2	340.5	347.3
127.5°	118.7	124.7	130.8	132.3	154.4	184.0	198.7	225.2	278.4	318.1	323.9
130°	122.6	129.1	135.6	137.3	157.4	184.3	197.7	221.3	268.5	303.9	309.2
132.5°	126.7	133.2	139.7	141.4	159.8	184.5	196.8	217.9	260.2	291.9	296.6
135°	132.7	138.7	144.6	146.1	162.5	184.3	195.2	213.0	248.4	274.9	279.0
137.5°	138.9	144.8	150.6	152.1	166.4	185.5	195.0	210.0	239.9	262.3	265.6
140°	144.0	149.4	154.8	156.2	168.8	185.7	194.0	206.9	232.8	252.2	255.3
142.5°	147.9	152.9	157.9	159.1	170.7	186.3	194.0	205.4	228.1	245.1	247.8
145°	153.9	158.3	162.6	163.8	173.4	186.3	192.7	202.0	220.5	234.5	236.5
147.5°	159.9	164.2	168.5	169.5	177.3	187.6	192.7	200.0	214.6	225.6	227.3
150°	163.9	167.7	171.6	172.6	179.3	188.3	192.7	198.9	211.2	220.5	221.8
152.5°	168.0	170.8	173.8	174.5	180.6	188.7	192.7	198.0	208.5	216.4	217.5
155°	174.0	176.2	178.3	178.9	183.5	189.7	192.7	196.9	205.3	211.6	212.3
157.5°	178.4	180.5	182.6	183.1	186.4	190.6	192.7	195.9	202.5	207.4	207.9
160°	181.5	183.1	184.7	185.1	187.7	191.1	192.7	195.5	201.1	205.3	205.5
162.5°	184.4	185.7	186.9	187.2	189.1	191.5	192.7	195.1	199.8	203.4	203.6
165°	187.7	188.8	189.9	190.2	191.1	192.2	192.7	194.4	197.8	200.3	200.6
167.5°	190.7	191.2	191.8	191.9	192.6	193.6	194.0	195.2	197.3	199.0	199.1
170°	192.7	193.2	193.8	193.9	193.9	194.0	194.0	195.2	197.3	199.0	199.0
172.5°	193.8	193.9	194.0	194.0	194.0	194.0	194.0	194.9	196.6	198.0	197.9
175°	195.2	195.2	195.2	195.2	194.8	194.3	194.0	194.6	195.7	196.6	196.6
177.5°	195.2	195.2	195.2	195.2	194.9	194.5	194.3	194.7	195.6	196.3	196.2
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



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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°	5.0	5.0	5.0	5.0	5.0	6.6	8.8	9.9	8.5	5.8	3.7
92.5°	19.9	16.0	19.9	23.9	24.9	35.2	49.1	56.1	49.3	35.6	25.3
95°	69.5	57.6	69.5	81.5	84.5	110.9	146.2	163.9	138.4	87.5	49.3
97.5°	166.6	143.7	166.6	189.4	195.1	211.8	234.1	245.2	202.7	117.8	54.1
100°	240.0	212.8	240.0	267.1	273.9	272.7	271.0	270.2	223.2	128.9	58.2
102.5°	312.2	288.9	312.2	335.5	341.3	319.9	291.5	277.3	229.5	133.9	62.3
105°	404.3	391.7	404.3	416.7	419.9	372.1	308.4	276.5	230.2	137.7	68.3
107.5°	464.5	467.6	464.5	461.6	460.8	394.2	305.3	260.8	220.0	138.4	77.2
110°	487.6	500.6	487.6	474.5	471.2	396.8	297.5	247.7	210.9	137.3	82.1



TEST NUMBER: P934038

CATALOG NUMBER: SQ4-FA-025U-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°	489.6	509.6	489.6	469.5	464.5	388.3	286.6	235.8	203.0	137.3	88.2
115°	476.6	504.4	476.6	448.8	441.9	368.4	270.5	221.5	193.9	138.7	97.2
117.5°	449.1	479.9	449.1	418.2	410.6	344.3	255.9	211.7	188.2	141.2	106.0
120°	426.9	456.9	426.9	397.0	389.5	328.9	248.2	207.8	186.4	143.4	111.1
122.5°	405.3	434.8	405.3	375.8	368.4	313.8	241.1	204.8	185.3	146.3	117.1
125°	374.5	401.7	374.5	347.3	340.5	294.2	232.4	201.5	184.5	150.4	124.9
127.5°	346.8	369.7	346.8	323.9	318.1	278.4	225.2	198.7	184.0	154.4	132.3
130°	330.4	351.6	330.4	309.2	303.9	268.5	221.3	197.7	184.3	157.4	137.3
132.5°	315.6	334.6	315.6	296.6	291.9	260.2	217.9	196.8	184.5	159.8	141.4
135°	295.3	311.7	295.3	279.0	274.9	248.4	213.0	195.2	184.3	162.5	146.1
137.5°	279.1	292.4	279.1	265.6	262.3	239.9	210.0	195.0	185.5	166.4	152.1
140°	267.8	280.4	267.8	255.3	252.2	232.8	206.9	194.0	185.7	168.8	156.2
142.5°	258.6	269.4	258.6	247.8	245.1	228.1	205.4	194.0	186.3	170.7	159.1
145°	244.7	252.9	244.7	236.5	234.5	220.5	202.0	192.7	186.3	173.4	163.8
147.5°	234.1	240.8	234.1	227.3	225.6	214.6	200.0	192.7	187.6	177.3	169.5
150°	227.3	232.8	227.3	221.8	220.5	211.2	198.9	192.7	188.3	179.3	172.6
152.5°	221.6	225.8	221.6	217.5	216.4	208.5	198.0	192.7	188.7	180.6	174.5
155°	215.0	217.7	215.0	212.3	211.6	205.3	196.9	192.7	189.7	183.5	178.9
157.5°	209.8	211.7	209.8	207.9	207.4	202.5	195.9	192.7	190.6	186.4	183.1
160°	206.7	207.8	206.7	205.5	205.3	201.1	195.5	192.7	191.1	187.7	185.1
162.5°	204.7	205.7	204.7	203.6	203.4	199.8	195.1	192.7	191.5	189.1	187.2
165°	201.7	202.8	201.7	200.6	200.3	197.8	194.4	192.7	192.2	191.1	190.2
167.5°	199.6	200.0	199.6	199.1	199.0	197.3	195.2	194.0	193.6	192.6	191.9
170°	199.0	199.0	199.0	199.0	199.0	197.3	195.2	194.0	194.0	193.9	193.9
172.5°	197.4	197.1	197.4	197.9	198.0	196.6	194.9	194.0	194.0	194.0	194.0
175°	196.6	196.6	196.6	196.6	196.6	195.7	194.6	194.0	194.3	194.8	195.2
177.5°	195.7	195.2	195.7	196.2	196.3	195.6	194.7	194.3	194.5	194.9	195.2
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



TEST NUMBER: P934038

CATALOG NUMBER: SQ4-FA-025U-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°	3.4	2.4	1.3	2.4	3.4	3.7	5.8	8.5	9.9	8.8	6.6
92.5°	23.0	14.1	5.2	14.1	23.0	25.3	35.6	49.3	56.1	49.1	35.2
95°	45.2	28.9	12.6	28.9	45.2	49.3	87.5	138.4	163.9	146.2	110.9
97.5°	50.5	36.1	21.7	36.1	50.5	54.1	117.8	202.7	245.2	234.1	211.8
100°	54.9	41.9	28.9	41.9	54.9	58.2	128.9	223.2	270.2	271.0	272.7
102.5°	59.2	47.1	34.9	47.1	59.2	62.3	133.9	229.5	277.3	291.5	319.9
105°	65.7	55.4	45.1	55.4	65.7	68.3	137.7	230.2	276.5	308.4	372.1
107.5°	74.7	65.1	55.5	65.1	74.7	77.2	138.4	220.0	260.8	305.3	394.2
110°	80.0	71.3	62.6	71.3	80.0	82.1	137.3	210.9	247.7	297.5	396.8



TEST NUMBER: P934038

CATALOG NUMBER: SQ4-FA-025U-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°	86.1	77.9	69.6	77.9	86.1	88.2	137.3	203.0	235.8	286.6	388.3
115°	95.3	87.7	80.1	87.7	95.3	97.2	138.7	193.9	221.5	270.5	368.4
117.5°	104.2	97.3	90.4	97.3	104.2	106.0	141.2	188.2	211.7	255.9	344.3
120°	109.4	103.0	96.4	103.0	109.4	111.1	143.4	186.4	207.8	248.2	328.9
122.5°	115.5	108.9	102.3	108.9	115.5	117.1	146.3	185.3	204.8	241.1	313.8
125°	123.4	117.4	111.4	117.4	123.4	124.9	150.4	184.5	201.5	232.4	294.2
127.5°	130.8	124.7	118.7	124.7	130.8	132.3	154.4	184.0	198.7	225.2	278.4
130°	135.6	129.1	122.6	129.1	135.6	137.3	157.4	184.3	197.7	221.3	268.5
132.5°	139.7	133.2	126.7	133.2	139.7	141.4	159.8	184.5	196.8	217.9	260.2
135°	144.6	138.7	132.7	138.7	144.6	146.1	162.5	184.3	195.2	213.0	248.4
137.5°	150.6	144.8	138.9	144.8	150.6	152.1	166.4	185.5	195.0	210.0	239.9
140°	154.8	149.4	144.0	149.4	154.8	156.2	168.8	185.7	194.0	206.9	232.8
142.5°	157.9	152.9	147.9	152.9	157.9	159.1	170.7	186.3	194.0	205.4	228.1
145°	162.6	158.3	153.9	158.3	162.6	163.8	173.4	186.3	192.7	202.0	220.5
147.5°	168.5	164.2	159.9	164.2	168.5	169.5	177.3	187.6	192.7	200.0	214.6
150°	171.6	167.7	163.9	167.7	171.6	172.6	179.3	188.3	192.7	198.9	211.2
152.5°	173.8	170.8	168.0	170.8	173.8	174.5	180.6	188.7	192.7	198.0	208.5
155°	178.3	176.2	174.0	176.2	178.3	178.9	183.5	189.7	192.7	196.9	205.3
157.5°	182.6	180.5	178.4	180.5	182.6	183.1	186.4	190.6	192.7	195.9	202.5
160°	184.7	183.1	181.5	183.1	184.7	185.1	187.7	191.1	192.7	195.5	201.1
162.5°	186.9	185.7	184.4	185.7	186.9	187.2	189.1	191.5	192.7	195.1	199.8
165°	189.9	188.8	187.7	188.8	189.9	190.2	191.1	192.2	192.7	194.4	197.8
167.5°	191.8	191.2	190.7	191.2	191.8	191.9	192.6	193.6	194.0	195.2	197.3
170°	193.8	193.2	192.7	193.2	193.8	193.9	193.9	194.0	194.0	195.2	197.3
172.5°	194.0	193.9	193.8	193.9	194.0	194.0	194.0	194.0	194.0	194.9	196.6
175°	195.2	195.2	195.2	195.2	195.2	195.2	194.8	194.3	194.0	194.6	195.7
177.5°	195.2	195.2	195.2	195.2	195.2	195.2	194.9	194.5	194.3	194.7	195.6
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



TEST NUMBER: P934038

CATALOG NUMBER: SQ4-FA-025U-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°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.6	8.8	9.9	8.5
92.5°	24.9	23.9	19.9	16.0	19.9	23.9	24.9	35.2	49.1	56.1	49.3
95°	84.5	81.5	69.5	57.6	69.5	81.5	84.5	110.9	146.2	163.9	138.4
97.5°	195.1	189.4	166.6	143.7	166.6	189.4	195.1	211.8	234.1	245.2	202.7
100°	273.9	267.1	240.0	212.8	240.0	267.1	273.9	272.7	271.0	270.2	223.2
102.5°	341.3	335.5	312.2	288.9	312.2	335.5	341.3	319.9	291.5	277.3	229.5
105°	419.9	416.7	404.3	391.7	404.3	416.7	419.9	372.1	308.4	276.5	230.2
107.5°	460.8	461.6	464.5	467.6	464.5	461.6	460.8	394.2	305.3	260.8	220.0
110°	471.2	474.5	487.6	500.6	487.6	474.5	471.2	396.8	297.5	247.7	210.9



TEST NUMBER: P934038

CATALOG NUMBER: SQ4-FA-025U-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°	464.5	469.5	489.6	509.6	489.6	469.5	464.5	388.3	286.6	235.8	203.0
115°	441.9	448.8	476.6	504.4	476.6	448.8	441.9	368.4	270.5	221.5	193.9
117.5°	410.6	418.2	449.1	479.9	449.1	418.2	410.6	344.3	255.9	211.7	188.2
120°	389.5	397.0	426.9	456.9	426.9	397.0	389.5	328.9	248.2	207.8	186.4
122.5°	368.4	375.8	405.3	434.8	405.3	375.8	368.4	313.8	241.1	204.8	185.3
125°	340.5	347.3	374.5	401.7	374.5	347.3	340.5	294.2	232.4	201.5	184.5
127.5°	318.1	323.9	346.8	369.7	346.8	323.9	318.1	278.4	225.2	198.7	184.0
130°	303.9	309.2	330.4	351.6	330.4	309.2	303.9	268.5	221.3	197.7	184.3
132.5°	291.9	296.6	315.6	334.6	315.6	296.6	291.9	260.2	217.9	196.8	184.5
135°	274.9	279.0	295.3	311.7	295.3	279.0	274.9	248.4	213.0	195.2	184.3
137.5°	262.3	265.6	279.1	292.4	279.1	265.6	262.3	239.9	210.0	195.0	185.5
140°	252.2	255.3	267.8	280.4	267.8	255.3	252.2	232.8	206.9	194.0	185.7
142.5°	245.1	247.8	258.6	269.4	258.6	247.8	245.1	228.1	205.4	194.0	186.3
145°	234.5	236.5	244.7	252.9	244.7	236.5	234.5	220.5	202.0	192.7	186.3
147.5°	225.6	227.3	234.1	240.8	234.1	227.3	225.6	214.6	200.0	192.7	187.6
150°	220.5	221.8	227.3	232.8	227.3	221.8	220.5	211.2	198.9	192.7	188.3
152.5°	216.4	217.5	221.6	225.8	221.6	217.5	216.4	208.5	198.0	192.7	188.7
155°	211.6	212.3	215.0	217.7	215.0	212.3	211.6	205.3	196.9	192.7	189.7
157.5°	207.4	207.9	209.8	211.7	209.8	207.9	207.4	202.5	195.9	192.7	190.6
160°	205.3	205.5	206.7	207.8	206.7	205.5	205.3	201.1	195.5	192.7	191.1
162.5°	203.4	203.6	204.7	205.7	204.7	203.6	203.4	199.8	195.1	192.7	191.5
165°	200.3	200.6	201.7	202.8	201.7	200.6	200.3	197.8	194.4	192.7	192.2
167.5°	199.0	199.1	199.6	200.0	199.6	199.1	199.0	197.3	195.2	194.0	193.6
170°	199.0	199.0	199.0	199.0	199.0	199.0	199.0	197.3	195.2	194.0	194.0
172.5°	198.0	197.9	197.4	197.1	197.4	197.9	198.0	196.6	194.9	194.0	194.0
175°	196.6	196.6	196.6	196.6	196.6	196.6	196.6	195.7	194.6	194.0	194.3
177.5°	196.3	196.2	195.7	195.2	195.7	196.2	196.3	195.6	194.7	194.3	194.5
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



TEST NUMBER: P934038

CATALOG NUMBER: SQ4-FA-025U-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°	5.8	3.7	3.4	2.4	1.3
92.5°	35.6	25.3	23.0	14.1	5.2
95°	87.5	49.3	45.2	28.9	12.6
97.5°	117.8	54.1	50.5	36.1	21.7
100°	128.9	58.2	54.9	41.9	28.9
102.5°	133.9	62.3	59.2	47.1	34.9
105°	137.7	68.3	65.7	55.4	45.1
107.5°	138.4	77.2	74.7	65.1	55.5
110°	137.3	82.1	80.0	71.3	62.6



TEST NUMBER: P934038

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	137.3	88.2	86.1	77.9	69.6
115°	138.7	97.2	95.3	87.7	80.1
117.5°	141.2	106.0	104.2	97.3	90.4
120°	143.4	111.1	109.4	103.0	96.4
122.5°	146.3	117.1	115.5	108.9	102.3
125°	150.4	124.9	123.4	117.4	111.4
127.5°	154.4	132.3	130.8	124.7	118.7
130°	157.4	137.3	135.6	129.1	122.6
132.5°	159.8	141.4	139.7	133.2	126.7
135°	162.5	146.1	144.6	138.7	132.7
137.5°	166.4	152.1	150.6	144.8	138.9
140°	168.8	156.2	154.8	149.4	144.0
142.5°	170.7	159.1	157.9	152.9	147.9
145°	173.4	163.8	162.6	158.3	153.9
147.5°	177.3	169.5	168.5	164.2	159.9
150°	179.3	172.6	171.6	167.7	163.9
152.5°	180.6	174.5	173.8	170.8	168.0
155°	183.5	178.9	178.3	176.2	174.0
157.5°	186.4	183.1	182.6	180.5	178.4
160°	187.7	185.1	184.7	183.1	181.5
162.5°	189.1	187.2	186.9	185.7	184.4
165°	191.1	190.2	189.9	188.8	187.7
167.5°	192.6	191.9	191.8	191.2	190.7
170°	193.9	193.9	193.8	193.2	192.7
172.5°	194.0	194.0	194.0	193.9	193.8
175°	194.8	195.2	195.2	195.2	195.2
177.5°	194.9	195.2	195.2	195.2	195.2
180°	195.2	195.2	195.2	195.2	195.2



TEST NUMBER: P934038
 CATALOG NUMBER: SQ4-FA-025U-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	15.56	16.76	16.22	17.44	18.23	18.39	19.58	19.05	20.26	21.05
	3H	16.06	17.14	16.74	17.83	18.65	19.75	20.83	20.43	21.52	22.34
	4H	16.27	17.29	16.96	17.98	18.82	20.21	21.23	20.91	21.93	22.76
	6H	16.41	17.34	17.11	18.05	18.90	20.51	21.45	21.22	22.16	23.01
	8H	16.42	17.31	17.14	18.04	18.89	20.60	21.49	21.32	22.22	23.07
	12H	16.40	17.25	17.12	17.98	18.86	20.65	21.50	21.37	22.22	23.10
4H	2H	16.63	17.65	17.33	18.35	19.18	18.84	19.85	19.53	20.55	21.39
	3H	17.69	18.54	18.40	19.27	20.13	20.37	21.22	21.08	21.95	22.81
	4H	17.98	18.75	18.71	19.49	20.37	20.91	21.68	21.64	22.42	23.30
	6H	18.12	18.79	18.87	19.55	20.45	21.29	21.96	22.04	22.72	23.62
	8H	18.14	18.76	18.89	19.52	20.43	21.41	22.03	22.16	22.79	23.69
	12H	18.12	18.68	18.89	19.47	20.37	21.48	22.04	22.25	22.82	23.73
8H	4H	18.46	19.08	19.21	19.84	20.75	21.06	21.68	21.81	22.45	23.35
	6H	18.74	19.25	19.52	20.05	20.96	21.51	22.03	22.29	22.83	23.74
	8H	18.78	19.24	19.57	20.04	20.97	21.67	22.13	22.46	22.93	23.85
	12H	18.78	19.19	19.58	19.98	20.96	21.78	22.18	22.57	22.98	23.96
12H	4H	18.48	19.04	19.25	19.83	20.74	21.04	21.60	21.81	22.39	23.30
	6H	18.80	19.26	19.59	20.06	20.98	21.51	21.97	22.30	22.77	23.70
	8H	18.88	19.29	19.68	20.08	21.06	21.69	22.09	22.48	22.89	23.87