

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: P934071

Luminaire Tested: SQ4-FA-025U-100D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934071
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-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

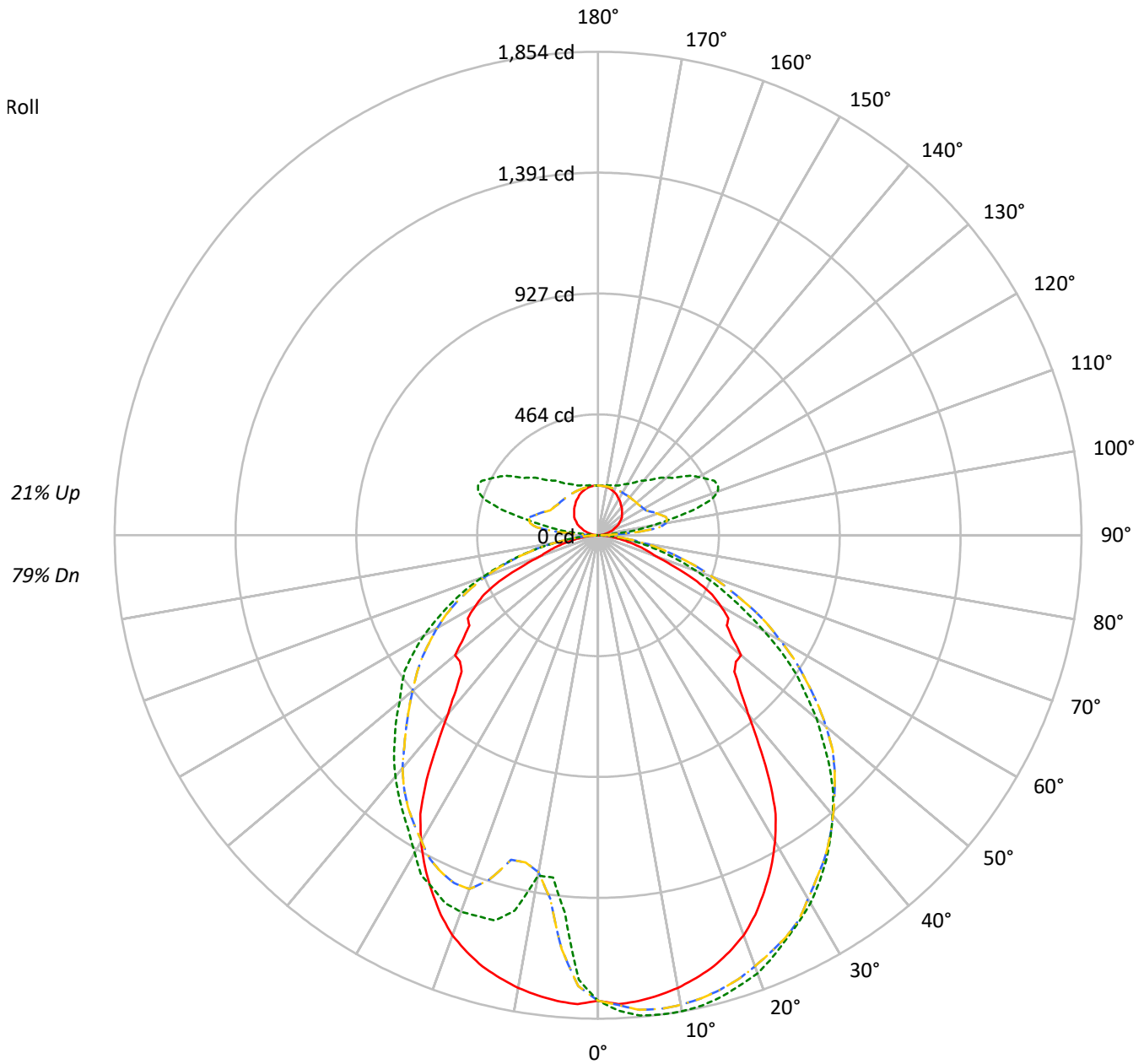
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5864.3 lumens
Efficiency: N/A
Efficacy: 100.8 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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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°	11040	11040	11040	11040
5°	11118	11144	11118	8763
10°	11040	10978	11040	7848
15°	10916	10740	10916	8968
20°	10684	10458	10684	8987
25°	10212	10047	10212	8796
30°	9604	9706	9604	8378
35°	8558	9274	8558	7919
40°	7127	8767	7127	7572
45°	6363	8172	6363	7172
50°	6756	7463	6756	6772
55°	6350	6698	6350	6540
60°	6538	5689	6538	5990
65°	5919	4702	5919	5257
70°	4087	3748	4087	4406
75°	3571	2771	3571	3318
80°	2858	1832	2858	1995
85°	1610	971	1610	824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9760 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	2.7
10°-20°	457.4	7.8
20°-30°	707.0	12.1
30°-40°	844.1	14.4
40°-50°	849.0	14.5
50°-60°	738.7	12.6
60°-70°	523.8	8.9
70°-80°	277.1	4.7
80°-90°	69.7	1.2
90°-100°	93.0	1.6
100°-110°	244.4	4.2
110°-120°	253.4	4.3
120°-130°	203.3	3.5
130°-140°	159.5	2.7
140°-150°	122.4	2.1
150°-160°	88.2	1.5
160°-170°	53.9	0.9
170°-180°	18.2	0.3
0°-30°	1325.5	22.6
0°-40°	2169.6	37.0
0°-60°	3757.3	64.1
0°-90°	4627.9	78.9
90°-120°	590.8	10.1
90°-150°	1076.0	18.3
90°-180°	1236.0	21.1
0°-180°	5864.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1785	1785	1785	1785	1785	
5°	1793	1849	1793	1454	1793	170
15°	1712	1832	1712	1530	1712	482
25°	1508	1709	1508	1496	1508	692
35°	1146	1525	1146	1302	1146	709
45°	740	1256	740	1102	740	592
55°	603	927	603	905	603	554
65°	419	559	419	625	419	400
75°	159	265	159	318	159	167
85°	27	68	27	57	27	36
90°	1	5	1	5	1	2
95°	12	56	12	56	12	14
105°	44	383	44	383	44	47
115°	78	493	78	493	78	77
125°	109	392	109	392	109	97
135°	130	304	130	304	130	100
145°	150	247	150	247	150	94
155°	170	213	170	213	170	78
165°	183	198	183	198	183	52
175°	191	192	191	192	191	18
180°	191	191	191	191	191	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1799.8	1799.8	1810.0	1813.3	1813.3	1808.3	1803.2	1808.3	1823.5	1828.6	1826.9
5°	1793.0	1806.6	1825.2	1828.6	1831.9	1830.2	1826.9	1830.2	1847.1	1850.5	1852.2
7.5°	1779.6	1804.9	1828.6	1833.6	1838.6	1833.6	1831.9	1835.3	1852.2	1855.6	1855.6
10°	1762.7	1798.1	1825.2	1828.6	1833.6	1828.6	1828.6	1835.3	1852.2	1855.6	1857.2
12.5°	1739.0	1788.0	1813.3	1816.7	1823.5	1821.7	1820.0	1826.9	1843.7	1847.1	1847.1
15°	1712.0	1769.4	1793.0	1796.4	1808.3	1804.9	1804.9	1811.6	1830.2	1835.3	1833.6
17.5°	1674.9	1745.7	1772.8	1777.9	1786.3	1784.6	1786.3	1793.0	1810.0	1813.3	1815.0
20°	1632.7	1713.7	1745.7	1750.9	1759.3	1759.3	1759.3	1767.7	1784.6	1791.4	1791.4
22.5°	1575.3	1680.0	1713.7	1717.1	1727.3	1727.3	1730.6	1742.4	1757.6	1759.3	1759.3
25°	1507.7	1642.8	1671.5	1681.6	1691.7	1696.8	1701.9	1708.7	1713.7	1712.0	1713.7
27.5°	1436.8	1595.5	1632.7	1639.4	1653.0	1658.0	1664.7	1666.4	1668.1	1673.2	1669.8
30°	1357.5	1529.7	1585.4	1592.1	1614.1	1617.4	1610.7	1614.1	1622.5	1626.0	1629.3
32.5°	1267.9	1431.8	1536.4	1551.7	1571.9	1561.7	1560.1	1565.1	1578.7	1578.7	1582.0
35°	1146.5	1355.8	1490.8	1504.4	1519.5	1507.7	1514.5	1516.1	1524.6	1529.7	1528.0
37.5°	1013.0	1289.9	1443.5	1453.7	1465.5	1450.4	1460.4	1465.5	1472.3	1468.9	1468.9
40°	894.9	1186.9	1387.8	1394.6	1404.8	1392.9	1403.1	1406.4	1409.8	1406.4	1404.8
42.5°	807.0	1073.8	1328.8	1337.2	1330.5	1338.9	1342.2	1349.1	1343.9	1337.2	1337.2
45°	739.5	1043.4	1264.6	1274.8	1264.6	1278.1	1283.2	1283.2	1267.9	1264.6	1262.9
47.5°	717.6	982.6	1200.5	1200.5	1195.4	1212.2	1220.7	1208.9	1193.7	1188.6	1188.6
50°	715.9	915.1	1112.6	1105.9	1129.5	1149.8	1141.3	1129.5	1117.7	1099.2	1099.2
52.5°	650.0	832.4	999.5	1024.9	1062.0	1073.8	1060.3	1048.5	1028.2	1019.8	1013.0
55°	602.8	746.3	896.6	947.2	986.0	1001.2	975.9	964.0	933.7	928.6	925.3
57.5°	592.7	621.4	802.0	866.1	913.4	911.7	896.6	874.6	849.3	844.2	842.5
60°	543.7	449.1	700.7	776.7	825.6	820.6	807.0	786.8	763.1	759.8	756.4
62.5°	493.0	325.9	585.8	672.0	741.2	739.5	727.7	697.3	680.4	672.0	665.2
65°	418.8	273.5	417.1	558.8	658.5	661.8	636.5	614.5	596.0	585.8	584.2
67.5°	319.1	222.9	281.9	466.0	579.1	575.8	543.7	533.5	509.9	504.8	494.7
70°	236.3	148.6	195.9	378.2	501.5	493.0	467.7	455.9	433.9	422.1	415.4
72.5°	195.9	119.9	143.5	293.8	422.1	411.9	390.0	376.5	357.9	347.8	341.1
75°	158.7	126.6	109.7	217.8	342.8	336.0	315.8	302.2	287.0	273.5	275.2
77.5°	116.5	118.2	87.8	160.4	271.8	261.7	249.9	233.0	226.2	212.7	212.7
80°	87.8	92.9	65.9	109.7	195.9	195.9	185.7	173.9	162.1	155.3	155.3
82.5°	59.1	59.1	49.0	69.2	133.4	128.3	121.6	118.2	111.4	108.0	108.0
85°	27.0	33.7	30.4	42.2	72.6	76.0	76.0	72.6	70.9	67.6	69.2
87.5°	8.4	15.2	18.6	23.6	37.1	38.9	40.6	40.6	40.6	42.2	42.2
90°	1.3	2.3	3.3	3.6	5.6	8.3	9.7	8.6	6.5	4.9	4.9
92.5°	5.1	13.8	22.5	24.7	34.8	48.1	54.8	48.0	34.4	24.3	23.3
95°	12.3	28.2	44.1	48.1	85.5	135.2	160.1	142.9	108.4	82.6	79.7
97.5°	21.2	35.3	49.3	52.8	115.1	198.1	239.6	228.7	207.0	190.6	185.1
100°	28.2	40.9	53.7	56.8	125.9	218.0	264.0	264.8	266.4	267.6	261.0
102.5°	34.1	46.0	57.9	60.8	130.9	224.2	270.9	284.8	312.6	333.5	327.8
105°	44.0	54.1	64.2	66.7	134.5	224.9	270.2	301.3	363.5	410.2	407.2
107.5°	54.3	63.6	73.0	75.4	135.2	215.0	254.8	298.3	385.1	450.2	451.0
110°	61.2	69.7	78.1	80.3	134.2	206.1	242.1	290.6	387.7	460.4	463.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	68.0	76.1	84.1	86.1	134.2	198.3	230.4	280.1	379.4	453.9	458.7
115°	78.2	85.7	93.1	95.0	135.5	189.4	216.4	264.3	360.0	431.7	438.5
117.5°	88.4	95.1	101.8	103.5	137.9	183.9	206.9	250.1	336.4	401.1	408.6
120°	94.2	100.6	106.9	108.5	140.1	182.1	203.0	242.5	321.4	380.6	387.9
122.5°	99.9	106.4	112.8	114.4	143.0	181.0	200.0	235.6	306.6	360.0	367.2
125°	108.8	114.7	120.6	122.0	147.0	180.3	196.9	227.1	287.5	332.7	339.4
127.5°	116.0	121.8	127.8	129.2	150.9	179.8	194.2	220.1	272.0	310.8	316.4
130°	119.8	126.2	132.5	134.1	153.8	180.0	193.1	216.2	262.3	296.9	302.1
132.5°	123.8	130.2	136.5	138.1	156.2	180.3	192.3	212.9	254.2	285.2	289.8
135°	129.7	135.5	141.3	142.7	158.7	180.1	190.8	208.1	242.6	268.6	272.6
137.5°	135.7	141.4	147.1	148.6	162.6	181.2	190.5	205.2	234.4	256.3	259.5
140°	140.7	145.9	151.2	152.6	164.9	181.4	189.6	202.2	227.5	246.4	249.5
142.5°	144.5	149.4	154.3	155.5	166.8	182.0	189.6	200.6	222.9	239.5	242.1
145°	150.4	154.6	158.9	160.0	169.5	182.0	188.3	197.3	215.5	229.1	231.1
147.5°	156.3	160.4	164.6	165.6	173.2	183.3	188.3	195.4	209.7	220.4	222.0
150°	160.1	163.8	167.7	168.6	175.2	183.9	188.3	194.3	206.4	215.4	216.7
152.5°	164.1	166.9	169.8	170.5	176.4	184.4	188.3	193.4	203.7	211.5	212.5
155°	170.0	172.1	174.2	174.7	179.3	185.3	188.3	192.4	200.6	206.7	207.4
157.5°	174.3	176.4	178.4	178.9	182.1	186.2	188.3	191.4	197.8	202.6	203.1
160°	177.3	178.9	180.5	180.9	183.4	186.7	188.3	191.0	196.5	200.6	200.8
162.5°	180.2	181.4	182.6	182.9	184.7	187.1	188.3	190.6	195.2	198.7	198.9
165°	183.4	184.5	185.6	185.8	186.7	187.8	188.3	189.9	193.2	195.7	196.0
167.5°	186.3	186.8	187.4	187.5	188.2	189.1	189.6	190.7	192.8	194.4	194.5
170°	188.3	188.8	189.3	189.4	189.5	189.6	189.6	190.7	192.8	194.4	194.4
172.5°	189.3	189.4	189.6	189.6	189.6	189.6	189.6	190.4	192.1	193.4	193.3
175°	190.8	190.8	190.8	190.8	190.3	189.8	189.6	190.1	191.2	192.0	192.0
177.5°	190.8	190.8	190.8	190.8	190.4	190.0	189.8	190.3	191.1	191.8	191.7
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1830.2	1825.2	1830.2	1826.9	1828.6	1823.5	1808.3	1803.2	1808.3	1813.3	1813.3
5°	1852.2	1848.8	1852.2	1852.2	1850.5	1847.1	1830.2	1826.9	1830.2	1831.9	1828.6
7.5°	1858.9	1853.9	1858.9	1855.6	1855.6	1852.2	1835.3	1831.9	1833.6	1838.6	1833.6
10°	1858.9	1853.9	1858.9	1857.2	1855.6	1852.2	1835.3	1828.6	1828.6	1833.6	1828.6
12.5°	1850.5	1847.1	1850.5	1847.1	1847.1	1843.7	1826.9	1820.0	1821.7	1823.5	1816.7
15°	1837.0	1831.9	1837.0	1833.6	1835.3	1830.2	1811.6	1804.9	1804.9	1808.3	1796.4
17.5°	1816.7	1810.0	1816.7	1815.0	1813.3	1810.0	1793.0	1786.3	1784.6	1786.3	1777.9
20°	1793.0	1788.0	1793.0	1791.4	1791.4	1784.6	1767.7	1759.3	1759.3	1759.3	1750.9
22.5°	1755.9	1750.9	1755.9	1759.3	1759.3	1757.6	1742.4	1730.6	1727.3	1727.3	1717.1
25°	1713.7	1708.7	1713.7	1713.7	1712.0	1713.7	1708.7	1701.9	1696.8	1691.7	1681.6
27.5°	1673.2	1669.8	1673.2	1669.8	1673.2	1668.1	1666.4	1664.7	1658.0	1653.0	1639.4
30°	1632.7	1629.3	1632.7	1629.3	1626.0	1622.5	1614.1	1610.7	1617.4	1614.1	1592.1
32.5°	1582.0	1578.7	1582.0	1582.0	1578.7	1578.7	1565.1	1560.1	1561.7	1571.9	1551.7
35°	1529.7	1524.6	1529.7	1528.0	1529.7	1524.6	1516.1	1514.5	1507.7	1519.5	1504.4
37.5°	1468.9	1463.8	1468.9	1468.9	1468.9	1472.3	1465.5	1460.4	1450.4	1465.5	1453.7
40°	1406.4	1399.7	1406.4	1404.8	1406.4	1409.8	1406.4	1403.1	1392.9	1404.8	1394.6
42.5°	1335.5	1333.8	1335.5	1337.2	1337.2	1343.9	1349.1	1342.2	1338.9	1330.5	1337.2
45°	1259.5	1256.2	1259.5	1262.9	1264.6	1267.9	1283.2	1283.2	1278.1	1264.6	1274.8
47.5°	1178.5	1170.1	1178.5	1188.6	1188.6	1193.7	1208.9	1220.7	1212.2	1195.4	1200.5
50°	1092.3	1094.1	1092.3	1099.2	1099.2	1117.7	1129.5	1141.3	1149.8	1129.5	1105.9
52.5°	1008.0	1006.3	1008.0	1013.0	1019.8	1028.2	1048.5	1060.3	1073.8	1062.0	1024.9
55°	923.6	926.9	923.6	925.3	928.6	933.7	964.0	975.9	1001.2	986.0	947.2
57.5°	839.1	834.0	839.1	842.5	844.2	849.3	874.6	896.6	911.7	913.4	866.1
60°	741.2	734.4	741.2	756.4	759.8	763.1	786.8	807.0	820.6	825.6	776.7
62.5°	655.1	643.3	655.1	665.2	672.0	680.4	697.3	727.7	739.5	741.2	672.0
65°	563.9	558.8	563.9	584.2	585.8	596.0	614.5	636.5	661.8	658.5	558.8
67.5°	481.2	481.2	481.2	494.7	504.8	509.9	533.5	543.7	575.8	579.1	466.0
70°	405.2	403.5	405.2	415.4	422.1	433.9	455.9	467.7	493.0	501.5	378.2
72.5°	332.6	330.9	332.6	341.1	347.8	357.9	376.5	390.0	411.9	422.1	293.8
75°	268.5	265.1	268.5	275.2	273.5	287.0	302.2	315.8	336.0	342.8	217.8
77.5°	206.0	206.0	206.0	212.7	212.7	226.2	233.0	249.9	261.7	271.8	160.4
80°	153.6	152.0	153.6	155.3	155.3	162.1	173.9	185.7	195.9	195.9	109.7
82.5°	108.0	104.7	108.0	108.0	108.0	111.4	118.2	121.6	128.3	133.4	69.2
85°	67.6	67.6	67.6	69.2	67.6	70.9	72.6	76.0	76.0	72.6	42.2
87.5°	43.9	42.2	43.9	42.2	42.2	40.6	40.6	40.6	38.9	37.1	23.6
90°	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.3	5.6	3.6
92.5°	19.4	15.6	19.4	23.3	24.3	34.4	48.0	54.8	48.1	34.8	24.7
95°	67.9	56.2	67.9	79.7	82.6	108.4	142.9	160.1	135.2	85.5	48.1
97.5°	162.7	140.4	162.7	185.1	190.6	207.0	228.7	239.6	198.1	115.1	52.8
100°	234.5	207.9	234.5	261.0	267.6	266.4	264.8	264.0	218.0	125.9	56.8
102.5°	305.0	282.3	305.0	327.8	333.5	312.6	284.8	270.9	224.2	130.9	60.8
105°	395.0	382.7	395.0	407.2	410.2	363.5	301.3	270.2	224.9	134.5	66.7
107.5°	453.9	456.8	453.9	451.0	450.2	385.1	298.3	254.8	215.0	135.2	75.4
110°	476.4	489.1	476.4	463.6	460.4	387.7	290.6	242.1	206.1	134.2	80.3



TEST NUMBER: P934071

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	478.3	497.9	478.3	458.7	453.9	379.4	280.1	230.4	198.3	134.2	86.1
115°	465.6	492.8	465.6	438.5	431.7	360.0	264.3	216.4	189.4	135.5	95.0
117.5°	438.8	468.9	438.8	408.6	401.1	336.4	250.1	206.9	183.9	137.9	103.5
120°	417.1	446.4	417.1	387.9	380.6	321.4	242.5	203.0	182.1	140.1	108.5
122.5°	396.0	424.8	396.0	367.2	360.0	306.6	235.6	200.0	181.0	143.0	114.4
125°	365.8	392.4	365.8	339.4	332.7	287.5	227.1	196.9	180.3	147.0	122.0
127.5°	338.8	361.2	338.8	316.4	310.8	272.0	220.1	194.2	179.8	150.9	129.2
130°	322.8	343.5	322.8	302.1	296.9	262.3	216.2	193.1	180.0	153.8	134.1
132.5°	308.3	326.9	308.3	289.8	285.2	254.2	212.9	192.3	180.3	156.2	138.1
135°	288.5	304.5	288.5	272.6	268.6	242.6	208.1	190.8	180.1	158.7	142.7
137.5°	272.6	285.7	272.6	259.5	256.3	234.4	205.2	190.5	181.2	162.6	148.6
140°	261.6	273.9	261.6	249.5	246.4	227.5	202.2	189.6	181.4	164.9	152.6
142.5°	252.6	263.2	252.6	242.1	239.5	222.9	200.6	189.6	182.0	166.8	155.5
145°	239.1	247.1	239.1	231.1	229.1	215.5	197.3	188.3	182.0	169.5	160.0
147.5°	228.7	235.2	228.7	222.0	220.4	209.7	195.4	188.3	183.3	173.2	165.6
150°	222.1	227.5	222.1	216.7	215.4	206.4	194.3	188.3	183.9	175.2	168.6
152.5°	216.5	220.6	216.5	212.5	211.5	203.7	193.4	188.3	184.4	176.4	170.5
155°	210.0	212.7	210.0	207.4	206.7	200.6	192.4	188.3	185.3	179.3	174.7
157.5°	205.0	206.9	205.0	203.1	202.6	197.8	191.4	188.3	186.2	182.1	178.9
160°	201.9	203.0	201.9	200.8	200.6	196.5	191.0	188.3	186.7	183.4	180.9
162.5°	200.0	201.0	200.0	198.9	198.7	195.2	190.6	188.3	187.1	184.7	182.9
165°	197.1	198.2	197.1	196.0	195.7	193.2	189.9	188.3	187.8	186.7	185.8
167.5°	195.0	195.4	195.0	194.5	194.4	192.8	190.7	189.6	189.1	188.2	187.5
170°	194.4	194.4	194.4	194.4	194.4	192.8	190.7	189.6	189.6	189.5	189.4
172.5°	192.9	192.6	192.9	193.3	193.4	192.1	190.4	189.6	189.6	189.6	189.6
175°	192.0	192.0	192.0	192.0	192.0	191.2	190.1	189.6	189.8	190.3	190.8
177.5°	191.2	190.8	191.2	191.7	191.8	191.1	190.3	189.8	190.0	190.4	190.8
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P934071

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1810.0	1799.8	1799.8	1782.9	1776.2	1771.1	1762.7	1737.3	1730.6	1723.9	1734.0
5°	1825.2	1806.6	1793.0	1762.7	1737.3	1727.3	1695.1	1634.4	1593.8	1563.4	1546.6
7.5°	1828.6	1804.9	1779.6	1732.3	1671.5	1644.4	1546.6	1435.1	1404.8	1377.7	1360.8
10°	1825.2	1798.1	1762.7	1691.7	1548.3	1501.0	1403.1	1330.5	1311.9	1306.8	1311.9
12.5°	1813.3	1788.0	1739.0	1620.8	1419.9	1387.8	1330.5	1288.2	1284.9	1293.3	1338.9
15°	1793.0	1769.4	1712.0	1526.3	1349.1	1325.4	1284.9	1269.7	1288.2	1347.4	1484.1
17.5°	1772.8	1745.7	1674.9	1433.4	1295.0	1278.1	1249.4	1279.8	1384.5	1463.8	1509.4
20°	1745.7	1713.7	1632.7	1365.9	1256.2	1240.9	1227.5	1364.2	1443.5	1472.3	1497.6
22.5°	1713.7	1680.0	1575.3	1318.6	1215.6	1203.8	1212.2	1411.5	1443.5	1463.8	1485.8
25°	1671.5	1642.8	1507.7	1281.5	1183.6	1170.1	1202.2	1406.4	1425.0	1430.1	1474.0
27.5°	1632.7	1595.5	1436.8	1247.8	1144.7	1139.6	1210.6	1384.5	1398.0	1403.1	1450.4
30°	1585.4	1529.7	1357.5	1212.2	1104.2	1102.5	1212.2	1357.5	1354.1	1367.6	1414.8
32.5°	1536.4	1431.8	1267.9	1168.3	1065.3	1063.7	1200.5	1316.9	1313.5	1332.1	1367.6
35°	1490.8	1355.8	1146.5	1117.7	1016.4	1018.1	1171.8	1269.7	1271.4	1288.2	1310.2
37.5°	1443.5	1289.9	1013.0	1062.0	969.2	969.2	1132.9	1225.8	1222.4	1227.5	1257.8
40°	1387.8	1186.9	894.9	989.4	925.3	920.2	1085.6	1178.5	1166.6	1165.0	1207.2
42.5°	1328.8	1073.8	807.0	893.2	874.6	867.8	1028.2	1121.1	1099.2	1104.2	1158.2
45°	1264.6	1043.4	739.5	754.7	822.3	817.2	965.7	1055.2	1040.0	1053.6	1109.3
47.5°	1200.5	982.6	717.6	626.4	766.5	764.8	896.6	991.0	982.6	996.2	1055.2
50°	1112.6	915.1	715.9	536.9	704.1	710.8	813.8	928.6	928.6	940.4	1002.9
52.5°	999.5	832.4	650.0	486.2	631.4	651.7	741.2	874.6	878.0	889.7	945.5
55°	896.6	746.3	602.8	447.4	545.4	589.2	670.3	818.9	825.6	837.4	888.1
57.5°	802.0	621.4	592.7	401.8	466.0	508.2	607.8	764.8	768.2	778.4	827.3
60°	700.7	449.1	543.7	352.9	396.8	428.8	550.4	700.7	712.5	719.3	761.4
62.5°	585.8	325.9	493.0	319.1	363.0	369.8	503.1	639.9	655.1	660.1	685.5
65°	417.1	273.5	418.8	290.4	327.5	329.2	452.5	577.4	590.9	599.4	618.0
67.5°	281.9	222.9	319.1	263.4	300.5	302.2	403.5	504.8	523.4	530.1	542.0
70°	195.9	148.6	236.3	234.7	270.2	273.5	351.2	439.0	455.9	460.9	467.7
72.5°	143.5	119.9	195.9	211.0	238.0	241.5	297.2	364.7	381.6	386.6	390.0
75°	109.7	126.6	158.7	184.0	202.6	204.3	243.2	297.2	308.9	312.3	314.0
77.5°	87.8	118.2	116.5	148.6	165.5	162.1	190.8	229.6	239.8	239.8	239.8
80°	65.9	92.9	87.8	106.3	121.6	118.2	136.7	163.8	167.2	170.5	168.9
82.5°	49.0	59.1	59.1	67.6	81.0	77.7	91.2	106.3	106.3	106.3	109.7
85°	30.4	33.7	27.0	35.4	45.6	43.9	50.7	57.4	59.1	59.1	55.7
87.5°	18.6	15.2	8.4	13.5	20.3	20.3	23.6	25.3	23.6	23.6	23.6
90°	3.3	2.3	1.3	2.3	3.3	3.6	5.6	8.3	9.7	8.6	6.5
92.5°	22.5	13.8	5.1	13.8	22.5	24.7	34.8	48.1	54.8	48.0	34.4
95°	44.1	28.2	12.3	28.2	44.1	48.1	85.5	135.2	160.1	142.9	108.4
97.5°	49.3	35.3	21.2	35.3	49.3	52.8	115.1	198.1	239.6	228.7	207.0
100°	53.7	40.9	28.2	40.9	53.7	56.8	125.9	218.0	264.0	264.8	266.4
102.5°	57.9	46.0	34.1	46.0	57.9	60.8	130.9	224.2	270.9	284.8	312.6
105°	64.2	54.1	44.0	54.1	64.2	66.7	134.5	224.9	270.2	301.3	363.5
107.5°	73.0	63.6	54.3	63.6	73.0	75.4	135.2	215.0	254.8	298.3	385.1
110°	78.1	69.7	61.2	69.7	78.1	80.3	134.2	206.1	242.1	290.6	387.7



TEST NUMBER: P934071

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	84.1	76.1	68.0	76.1	84.1	86.1	134.2	198.3	230.4	280.1	379.4
115°	93.1	85.7	78.2	85.7	93.1	95.0	135.5	189.4	216.4	264.3	360.0
117.5°	101.8	95.1	88.4	95.1	101.8	103.5	137.9	183.9	206.9	250.1	336.4
120°	106.9	100.6	94.2	100.6	106.9	108.5	140.1	182.1	203.0	242.5	321.4
122.5°	112.8	106.4	99.9	106.4	112.8	114.4	143.0	181.0	200.0	235.6	306.6
125°	120.6	114.7	108.8	114.7	120.6	122.0	147.0	180.3	196.9	227.1	287.5
127.5°	127.8	121.8	116.0	121.8	127.8	129.2	150.9	179.8	194.2	220.1	272.0
130°	132.5	126.2	119.8	126.2	132.5	134.1	153.8	180.0	193.1	216.2	262.3
132.5°	136.5	130.2	123.8	130.2	136.5	138.1	156.2	180.3	192.3	212.9	254.2
135°	141.3	135.5	129.7	135.5	141.3	142.7	158.7	180.1	190.8	208.1	242.6
137.5°	147.1	141.4	135.7	141.4	147.1	148.6	162.6	181.2	190.5	205.2	234.4
140°	151.2	145.9	140.7	145.9	151.2	152.6	164.9	181.4	189.6	202.2	227.5
142.5°	154.3	149.4	144.5	149.4	154.3	155.5	166.8	182.0	189.6	200.6	222.9
145°	158.9	154.6	150.4	154.6	158.9	160.0	169.5	182.0	188.3	197.3	215.5
147.5°	164.6	160.4	156.3	160.4	164.6	165.6	173.2	183.3	188.3	195.4	209.7
150°	167.7	163.8	160.1	163.8	167.7	168.6	175.2	183.9	188.3	194.3	206.4
152.5°	169.8	166.9	164.1	166.9	169.8	170.5	176.4	184.4	188.3	193.4	203.7
155°	174.2	172.1	170.0	172.1	174.2	174.7	179.3	185.3	188.3	192.4	200.6
157.5°	178.4	176.4	174.3	176.4	178.4	178.9	182.1	186.2	188.3	191.4	197.8
160°	180.5	178.9	177.3	178.9	180.5	180.9	183.4	186.7	188.3	191.0	196.5
162.5°	182.6	181.4	180.2	181.4	182.6	182.9	184.7	187.1	188.3	190.6	195.2
165°	185.6	184.5	183.4	184.5	185.6	185.8	186.7	187.8	188.3	189.9	193.2
167.5°	187.4	186.8	186.3	186.8	187.4	187.5	188.2	189.1	189.6	190.7	192.8
170°	189.3	188.8	188.3	188.8	189.3	189.4	189.5	189.6	189.6	190.7	192.8
172.5°	189.6	189.4	189.3	189.4	189.6	189.6	189.6	189.6	189.6	190.4	192.1
175°	190.8	190.8	190.8	190.8	190.8	190.8	190.3	189.8	189.6	190.1	191.2
177.5°	190.8	190.8	190.8	190.8	190.8	190.8	190.4	190.0	189.8	190.3	191.1
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P934071
 CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1722.1	1717.1	1723.9	1705.3	1723.9	1717.1	1722.1	1734.0	1723.9	1730.6	1737.3
5°	1511.1	1502.7	1475.7	1453.7	1475.7	1502.7	1511.1	1546.6	1563.4	1593.8	1634.4
7.5°	1350.7	1343.9	1337.2	1323.7	1337.2	1343.9	1350.7	1360.8	1377.7	1404.8	1435.1
10°	1315.2	1316.9	1327.1	1325.4	1327.1	1316.9	1315.2	1311.9	1306.8	1311.9	1330.5
12.5°	1406.4	1421.6	1477.4	1474.0	1477.4	1421.6	1406.4	1338.9	1293.3	1284.9	1288.2
15°	1511.1	1516.1	1528.0	1529.7	1528.0	1516.1	1511.1	1484.1	1347.4	1288.2	1269.7
17.5°	1521.2	1523.0	1531.4	1531.4	1531.4	1523.0	1521.2	1509.4	1463.8	1384.5	1279.8
20°	1512.8	1516.1	1533.1	1536.4	1533.1	1516.1	1512.8	1497.6	1472.3	1443.5	1364.2
22.5°	1509.4	1516.1	1529.7	1528.0	1529.7	1516.1	1509.4	1485.8	1463.8	1443.5	1411.5
25°	1492.5	1492.5	1494.2	1495.9	1494.2	1492.5	1492.5	1474.0	1430.1	1425.0	1406.4
27.5°	1457.1	1460.4	1470.6	1468.9	1470.6	1460.4	1457.1	1450.4	1403.1	1398.0	1384.5
30°	1425.0	1421.6	1413.2	1406.4	1413.2	1421.6	1425.0	1414.8	1367.6	1354.1	1357.5
32.5°	1371.0	1362.5	1354.1	1349.1	1354.1	1362.5	1371.0	1367.6	1332.1	1313.5	1316.9
35°	1306.8	1308.5	1306.8	1301.8	1306.8	1308.5	1306.8	1310.2	1288.2	1271.4	1269.7
37.5°	1261.2	1264.6	1262.9	1256.2	1262.9	1264.6	1261.2	1257.8	1227.5	1222.4	1225.8
40°	1213.9	1215.6	1213.9	1208.9	1213.9	1215.6	1213.9	1207.2	1165.0	1166.6	1178.5
42.5°	1168.3	1166.6	1161.6	1158.2	1161.6	1166.6	1168.3	1158.2	1104.2	1099.2	1121.1
45°	1116.0	1117.7	1107.6	1102.5	1107.6	1117.7	1116.0	1109.3	1053.6	1040.0	1055.2
47.5°	1063.7	1063.7	1055.2	1050.2	1055.2	1063.7	1063.7	1055.2	996.2	982.6	991.0
50°	1008.0	1006.3	994.5	992.8	994.5	1006.3	1008.0	1002.9	940.4	928.6	928.6
52.5°	943.8	943.8	945.5	948.9	945.5	943.8	943.8	945.5	889.7	878.0	874.6
55°	888.1	889.7	901.6	905.0	901.6	889.7	888.1	888.1	837.4	825.6	818.9
57.5°	830.7	830.7	839.1	839.1	839.1	830.7	830.7	827.3	778.4	768.2	764.8
60°	764.8	768.2	775.0	773.3	775.0	768.2	764.8	761.4	719.3	712.5	700.7
62.5°	695.6	699.0	700.7	697.3	700.7	699.0	695.6	685.5	660.1	655.1	639.9
65°	623.0	626.4	628.1	624.7	628.1	626.4	623.0	618.0	599.4	590.9	577.4
67.5°	548.7	547.1	545.4	552.1	545.4	547.1	548.7	542.0	530.1	523.4	504.8
70°	472.8	472.8	471.1	474.4	471.1	472.8	472.8	467.7	460.9	455.9	439.0
72.5°	391.7	390.0	396.8	391.7	396.8	390.0	391.7	390.0	386.6	381.6	364.7
75°	312.3	315.8	312.3	317.5	312.3	315.8	312.3	314.0	312.3	308.9	297.2
77.5°	238.0	241.5	238.0	238.0	238.0	241.5	238.0	239.8	239.8	239.8	229.6
80°	168.9	167.2	167.2	165.5	167.2	167.2	168.9	168.9	170.5	167.2	163.8
82.5°	108.0	106.3	106.3	109.7	106.3	106.3	108.0	109.7	106.3	106.3	106.3
85°	59.1	60.7	57.4	57.4	57.4	60.7	59.1	55.7	59.1	59.1	57.4
87.5°	22.0	20.3	20.3	20.3	20.3	20.3	22.0	23.6	23.6	23.6	25.3
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.3
92.5°	24.3	23.3	19.4	15.6	19.4	23.3	24.3	34.4	48.0	54.8	48.1
95°	82.6	79.7	67.9	56.2	67.9	79.7	82.6	108.4	142.9	160.1	135.2
97.5°	190.6	185.1	162.7	140.4	162.7	185.1	190.6	207.0	228.7	239.6	198.1
100°	267.6	261.0	234.5	207.9	234.5	261.0	267.6	266.4	264.8	264.0	218.0
102.5°	333.5	327.8	305.0	282.3	305.0	327.8	333.5	312.6	284.8	270.9	224.2
105°	410.2	407.2	395.0	382.7	395.0	407.2	410.2	363.5	301.3	270.2	224.9
107.5°	450.2	451.0	453.9	456.8	453.9	451.0	450.2	385.1	298.3	254.8	215.0
110°	460.4	463.6	476.4	489.1	476.4	463.6	460.4	387.7	290.6	242.1	206.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	453.9	458.7	478.3	497.9	478.3	458.7	453.9	379.4	280.1	230.4	198.3
115°	431.7	438.5	465.6	492.8	465.6	438.5	431.7	360.0	264.3	216.4	189.4
117.5°	401.1	408.6	438.8	468.9	438.8	408.6	401.1	336.4	250.1	206.9	183.9
120°	380.6	387.9	417.1	446.4	417.1	387.9	380.6	321.4	242.5	203.0	182.1
122.5°	360.0	367.2	396.0	424.8	396.0	367.2	360.0	306.6	235.6	200.0	181.0
125°	332.7	339.4	365.8	392.4	365.8	339.4	332.7	287.5	227.1	196.9	180.3
127.5°	310.8	316.4	338.8	361.2	338.8	316.4	310.8	272.0	220.1	194.2	179.8
130°	296.9	302.1	322.8	343.5	322.8	302.1	296.9	262.3	216.2	193.1	180.0
132.5°	285.2	289.8	308.3	326.9	308.3	289.8	285.2	254.2	212.9	192.3	180.3
135°	268.6	272.6	288.5	304.5	288.5	272.6	268.6	242.6	208.1	190.8	180.1
137.5°	256.3	259.5	272.6	285.7	272.6	259.5	256.3	234.4	205.2	190.5	181.2
140°	246.4	249.5	261.6	273.9	261.6	249.5	246.4	227.5	202.2	189.6	181.4
142.5°	239.5	242.1	252.6	263.2	252.6	242.1	239.5	222.9	200.6	189.6	182.0
145°	229.1	231.1	239.1	247.1	239.1	231.1	229.1	215.5	197.3	188.3	182.0
147.5°	220.4	222.0	228.7	235.2	228.7	222.0	220.4	209.7	195.4	188.3	183.3
150°	215.4	216.7	222.1	227.5	222.1	216.7	215.4	206.4	194.3	188.3	183.9
152.5°	211.5	212.5	216.5	220.6	216.5	212.5	211.5	203.7	193.4	188.3	184.4
155°	206.7	207.4	210.0	212.7	210.0	207.4	206.7	200.6	192.4	188.3	185.3
157.5°	202.6	203.1	205.0	206.9	205.0	203.1	202.6	197.8	191.4	188.3	186.2
160°	200.6	200.8	201.9	203.0	201.9	200.8	200.6	196.5	191.0	188.3	186.7
162.5°	198.7	198.9	200.0	201.0	200.0	198.9	198.7	195.2	190.6	188.3	187.1
165°	195.7	196.0	197.1	198.2	197.1	196.0	195.7	193.2	189.9	188.3	187.8
167.5°	194.4	194.5	195.0	195.4	195.0	194.5	194.4	192.8	190.7	189.6	189.1
170°	194.4	194.4	194.4	194.4	194.4	194.4	194.4	192.8	190.7	189.6	189.6
172.5°	193.4	193.3	192.9	192.6	192.9	193.3	193.4	192.1	190.4	189.6	189.6
175°	192.0	192.0	192.0	192.0	192.0	192.0	192.0	191.2	190.1	189.6	189.8
177.5°	191.8	191.7	191.2	190.8	191.2	191.7	191.8	191.1	190.3	189.8	190.0
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1762.7	1771.1	1776.2	1782.9	1799.8
5°	1695.1	1727.3	1737.3	1762.7	1793.0
7.5°	1546.6	1644.4	1671.5	1732.3	1779.6
10°	1403.1	1501.0	1548.3	1691.7	1762.7
12.5°	1330.5	1387.8	1419.9	1620.8	1739.0
15°	1284.9	1325.4	1349.1	1526.3	1712.0
17.5°	1249.4	1278.1	1295.0	1433.4	1674.9
20°	1227.5	1240.9	1256.2	1365.9	1632.7
22.5°	1212.2	1203.8	1215.6	1318.6	1575.3
25°	1202.2	1170.1	1183.6	1281.5	1507.7
27.5°	1210.6	1139.6	1144.7	1247.8	1436.8
30°	1212.2	1102.5	1104.2	1212.2	1357.5
32.5°	1200.5	1063.7	1065.3	1168.3	1267.9
35°	1171.8	1018.1	1016.4	1117.7	1146.5
37.5°	1132.9	969.2	969.2	1062.0	1013.0
40°	1085.6	920.2	925.3	989.4	894.9
42.5°	1028.2	867.8	874.6	893.2	807.0
45°	965.7	817.2	822.3	754.7	739.5
47.5°	896.6	764.8	766.5	626.4	717.6
50°	813.8	710.8	704.1	536.9	715.9
52.5°	741.2	651.7	631.4	486.2	650.0
55°	670.3	589.2	545.4	447.4	602.8
57.5°	607.8	508.2	466.0	401.8	592.7
60°	550.4	428.8	396.8	352.9	543.7
62.5°	503.1	369.8	363.0	319.1	493.0
65°	452.5	329.2	327.5	290.4	418.8
67.5°	403.5	302.2	300.5	263.4	319.1
70°	351.2	273.5	270.2	234.7	236.3
72.5°	297.2	241.5	238.0	211.0	195.9
75°	243.2	204.3	202.6	184.0	158.7
77.5°	190.8	162.1	165.5	148.6	116.5
80°	136.7	118.2	121.6	106.3	87.8
82.5°	91.2	77.7	81.0	67.6	59.1
85°	50.7	43.9	45.6	35.4	27.0
87.5°	23.6	20.3	20.3	13.5	8.4
90°	5.6	3.6	3.3	2.3	1.3
92.5°	34.8	24.7	22.5	13.8	5.1
95°	85.5	48.1	44.1	28.2	12.3
97.5°	115.1	52.8	49.3	35.3	21.2
100°	125.9	56.8	53.7	40.9	28.2
102.5°	130.9	60.8	57.9	46.0	34.1
105°	134.5	66.7	64.2	54.1	44.0
107.5°	135.2	75.4	73.0	63.6	54.3
110°	134.2	80.3	78.1	69.7	61.2



TEST NUMBER: P934071

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	134.2	86.1	84.1	76.1	68.0
115°	135.5	95.0	93.1	85.7	78.2
117.5°	137.9	103.5	101.8	95.1	88.4
120°	140.1	108.5	106.9	100.6	94.2
122.5°	143.0	114.4	112.8	106.4	99.9
125°	147.0	122.0	120.6	114.7	108.8
127.5°	150.9	129.2	127.8	121.8	116.0
130°	153.8	134.1	132.5	126.2	119.8
132.5°	156.2	138.1	136.5	130.2	123.8
135°	158.7	142.7	141.3	135.5	129.7
137.5°	162.6	148.6	147.1	141.4	135.7
140°	164.9	152.6	151.2	145.9	140.7
142.5°	166.8	155.5	154.3	149.4	144.5
145°	169.5	160.0	158.9	154.6	150.4
147.5°	173.2	165.6	164.6	160.4	156.3
150°	175.2	168.6	167.7	163.8	160.1
152.5°	176.4	170.5	169.8	166.9	164.1
155°	179.3	174.7	174.2	172.1	170.0
157.5°	182.1	178.9	178.4	176.4	174.3
160°	183.4	180.9	180.5	178.9	177.3
162.5°	184.7	182.9	182.6	181.4	180.2
165°	186.7	185.8	185.6	184.5	183.4
167.5°	188.2	187.5	187.4	186.8	186.3
170°	189.5	189.4	189.3	188.8	188.3
172.5°	189.6	189.6	189.6	189.4	189.3
175°	190.3	190.8	190.8	190.8	190.8
177.5°	190.4	190.8	190.8	190.8	190.8
180°	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P934071
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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	15.48	16.68	16.14	17.36	18.15	18.30	19.50	18.97	20.18	20.97
	3H	15.98	17.06	16.66	17.75	18.57	19.67	20.75	20.35	21.44	22.26
	4H	16.19	17.20	16.88	17.90	18.74	20.13	21.15	20.83	21.85	22.68
	6H	16.33	17.26	17.03	17.97	18.82	20.43	21.37	21.14	22.08	22.93
	8H	16.34	17.23	17.06	17.96	18.81	20.52	21.41	21.24	22.14	22.99
	12H	16.32	17.17	17.04	17.89	18.77	20.57	21.42	21.29	22.14	23.02
4H	2H	16.55	17.57	17.25	18.27	19.10	18.75	19.77	19.45	20.47	21.30
	3H	17.61	18.46	18.32	19.19	20.05	20.29	21.14	21.00	21.87	22.73
	4H	17.90	18.67	18.63	19.41	20.29	20.83	21.60	21.56	22.34	23.22
	6H	18.04	18.71	18.79	19.47	20.37	21.21	21.88	21.96	22.64	23.54
	8H	18.06	18.68	18.81	19.44	20.34	21.33	21.95	22.08	22.71	23.61
	12H	18.04	18.60	18.81	19.38	20.29	21.40	21.96	22.17	22.74	23.65
8H	4H	18.38	19.00	19.13	19.76	20.67	20.98	21.60	21.73	22.36	23.27
	6H	18.65	19.17	19.44	19.97	20.88	21.43	21.95	22.21	22.75	23.66
	8H	18.70	19.16	19.49	19.96	20.88	21.58	22.04	22.38	22.85	23.77
	12H	18.70	19.11	19.49	19.90	20.88	21.70	22.10	22.49	22.90	23.88
12H	4H	18.40	18.96	19.17	19.75	20.65	20.96	21.52	21.73	22.31	23.22
	6H	18.72	19.18	19.51	19.98	20.90	21.43	21.89	22.22	22.69	23.62
	8H	18.80	19.21	19.60	20.00	20.98	21.61	22.01	22.40	22.80	23.79