

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: P934871

Luminaire Tested: SQ4-FA-075U-100D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934871
REPORT IS A COMBINATION OF REPORTS P933715 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

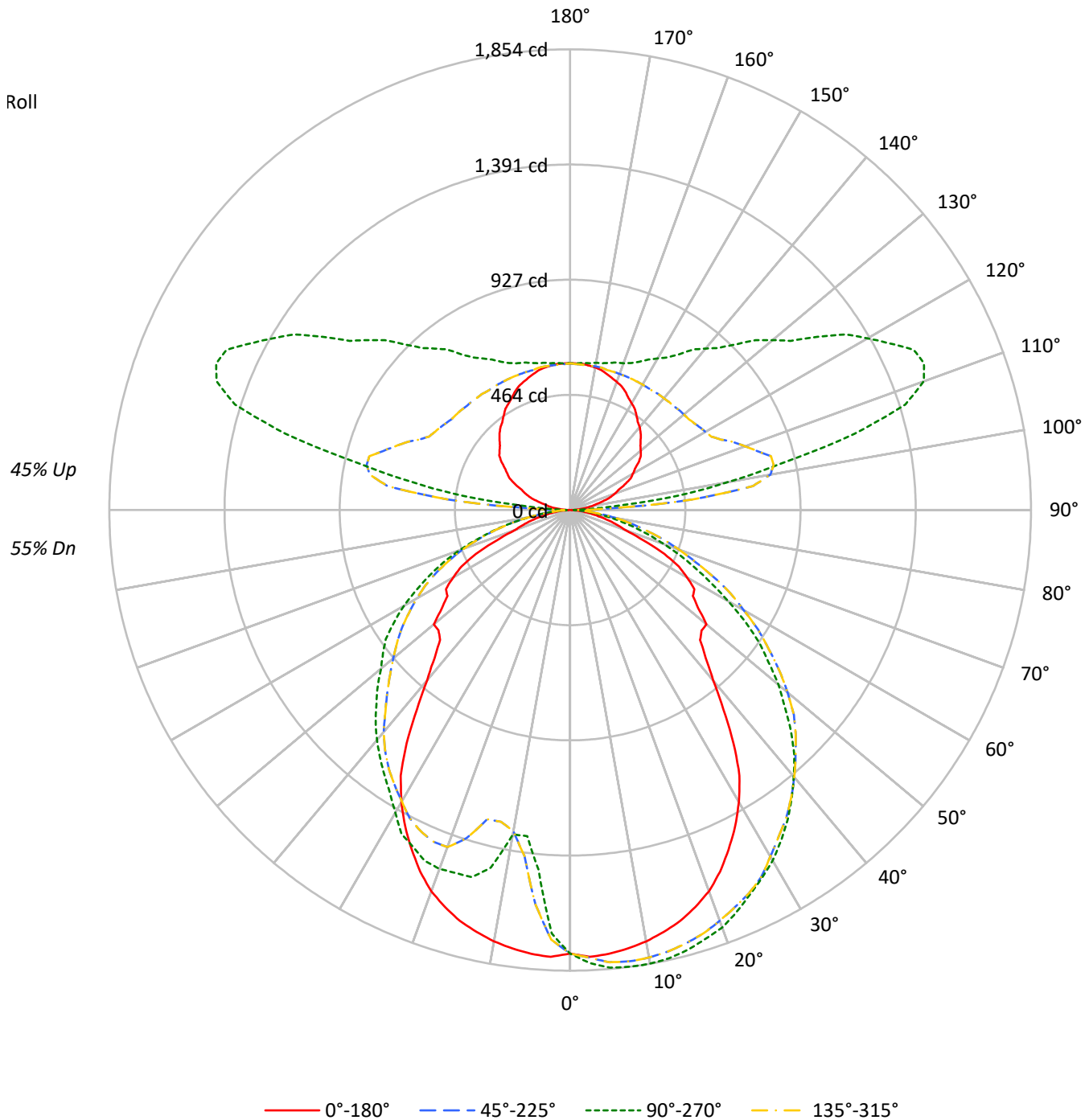
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8456.1 lumens
Efficiency: N/A
Efficacy: 110.1 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: General Diffuse

Input Watts (W): 76.8
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	22	18	16	14

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	1.9
10°-20°	457.4	5.4
20°-30°	707.0	8.4
30°-40°	844.1	10.0
40°-50°	849.0	10.0
50°-60°	738.7	8.7
60°-70°	523.8	6.2
70°-80°	277.1	3.3
80°-90°	71.3	0.8
90°-100°	287.7	3.4
100°-110°	756.5	8.9
110°-120°	784.4	9.3
120°-130°	629.2	7.4
130°-140°	493.7	5.8
140°-150°	378.9	4.5
150°-160°	272.9	3.2
160°-170°	167.0	2.0
170°-180°	56.4	0.7
0°-30°	1325.5	15.7
0°-40°	2169.6	25.7
0°-60°	3757.3	44.4
0°-90°	4629.5	54.7
90°-120°	1828.6	21.6
90°-150°	3330.4	39.4
90°-180°	3827.0	45.3
0°-180°	8456.1	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°	4	15	4	15	4	4
95°	38	174	38	174	38	42
105°	136	1184	136	1184	136	145
115°	242	1525	242	1525	242	239
125°	337	1215	337	1215	337	299
135°	401	942	401	942	401	311
145°	466	765	466	765	466	292
155°	526	658	526	658	526	242
165°	568	613	568	613	568	160
175°	590	594	590	594	590	56
180°	590	590	590	590	590	



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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°	3.9	7.1	10.3	11.1	17.4	25.8	30.1	26.8	20.1	15.1	15.1
92.5°	15.8	42.8	69.7	76.4	107.4	148.8	169.5	148.6	106.7	75.2	72.2
95°	38.0	87.3	136.6	148.9	264.5	418.6	495.6	442.3	335.5	255.5	246.5
97.5°	65.8	109.2	152.7	163.6	356.3	613.2	741.7	707.9	640.5	589.9	572.6
100°	87.2	126.6	166.1	175.9	389.7	674.8	817.3	819.8	824.7	828.4	807.9
102.5°	105.4	142.2	179.0	188.2	405.0	694.1	838.7	881.6	967.6	1032.0	1014.4
105°	136.3	167.5	198.7	206.4	416.4	696.3	836.3	932.6	1125.2	1269.7	1260.3
107.5°	168.0	197.1	226.1	233.4	418.5	665.3	788.8	923.1	1191.9	1393.4	1395.7
110°	189.4	215.6	241.8	248.4	415.3	637.9	749.2	899.4	1199.8	1425.1	1434.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	210.4	235.3	260.4	266.6	415.4	613.9	713.1	866.8	1174.2	1404.8	1419.9
115°	242.1	265.1	288.1	293.9	419.3	586.3	669.9	818.0	1114.2	1336.3	1357.2
117.5°	273.3	294.3	315.2	320.5	427.1	569.1	640.2	773.9	1041.1	1241.6	1264.9
120°	291.6	311.3	331.0	335.9	433.4	563.3	628.4	750.4	994.6	1177.8	1200.5
122.5°	309.4	329.3	349.2	354.2	442.5	560.4	619.2	729.1	949.0	1114.0	1136.3
125°	336.7	354.9	373.0	377.5	454.8	557.8	609.4	702.7	889.6	1029.6	1050.2
127.5°	358.9	377.3	395.5	400.1	467.1	556.4	601.0	681.2	841.6	961.9	979.3
130°	370.8	390.6	410.2	415.2	476.1	557.3	597.8	669.2	812.0	919.1	935.2
132.5°	383.1	402.8	422.5	427.4	483.3	557.8	595.0	658.9	786.8	882.7	897.0
135°	401.3	419.3	437.2	441.8	491.3	557.3	590.3	643.8	750.9	831.1	843.5
137.5°	420.0	437.7	455.5	459.9	503.1	560.7	589.5	634.7	725.2	793.1	803.3
140°	435.4	451.7	468.2	472.3	510.4	561.3	586.7	625.8	704.0	762.6	772.1
142.5°	447.3	462.5	477.6	481.4	516.5	563.3	586.7	621.0	689.7	741.2	749.4
145°	465.5	478.7	491.9	495.2	524.4	563.3	582.8	610.9	667.0	709.1	715.3
147.5°	483.7	496.5	509.4	512.6	536.0	567.2	582.8	604.8	649.1	682.2	687.3
150°	495.6	507.2	518.9	521.8	542.1	569.2	582.8	601.4	638.7	666.8	670.9
152.5°	507.9	516.7	525.5	527.7	546.0	570.5	582.8	598.7	630.6	654.5	657.7
155°	526.1	532.6	539.1	540.8	554.7	573.4	582.8	595.5	620.9	639.9	641.9
157.5°	539.6	546.0	552.3	553.9	563.5	576.4	582.8	592.7	612.3	627.2	628.6
160°	548.7	553.6	558.6	559.8	567.4	577.7	582.8	591.2	608.1	620.8	621.6
162.5°	557.8	561.6	565.2	566.2	571.7	579.1	582.8	589.9	604.2	614.9	615.7
165°	567.7	571.1	574.4	575.3	577.7	581.1	582.8	587.9	598.1	605.8	606.6
167.5°	576.8	578.4	580.0	580.4	582.5	585.3	586.7	590.0	596.7	601.8	602.1
170°	582.8	584.4	585.9	586.3	586.4	586.6	586.7	590.0	596.7	601.8	601.8
172.5°	585.9	586.3	586.6	586.7	586.7	586.7	586.7	589.3	594.6	598.6	598.3
175°	590.3	590.3	590.3	590.3	589.1	587.5	586.7	588.4	591.7	594.3	594.3
177.5°	590.3	590.3	590.3	590.3	589.3	588.1	587.5	588.9	591.5	593.5	593.2
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



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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°	15.1	15.1	15.1	15.1	15.1	20.1	26.8	30.1	25.8	17.4	11.1
92.5°	60.2	48.3	60.2	72.2	75.2	106.7	148.6	169.5	148.8	107.4	76.4
95°	210.2	173.9	210.2	246.5	255.5	335.5	442.3	495.6	418.6	264.5	148.9
97.5°	503.6	434.6	503.6	572.6	589.9	640.5	707.9	741.7	613.2	356.3	163.6
100°	725.6	643.3	725.6	807.9	828.4	824.7	819.8	817.3	674.8	389.7	175.9
102.5°	944.0	873.6	944.0	1014.4	1032.0	967.6	881.6	838.7	694.1	405.0	188.2
105°	1222.4	1184.5	1222.4	1260.3	1269.7	1125.2	932.6	836.3	696.3	416.4	206.4
107.5°	1404.8	1413.9	1404.8	1395.7	1393.4	1191.9	923.1	788.8	665.3	418.5	233.4
110°	1474.3	1513.7	1474.3	1434.9	1425.1	1199.8	899.4	749.2	637.9	415.3	248.4



TEST NUMBER: P934871

CATALOG NUMBER: SQ4-FA-075U-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°	1480.5	1541.1	1480.5	1419.9	1404.8	1174.2	866.8	713.1	613.9	415.4	266.6
115°	1441.2	1525.3	1441.2	1357.2	1336.3	1114.2	818.0	669.9	586.3	419.3	293.9
117.5°	1358.0	1451.1	1358.0	1264.9	1241.6	1041.1	773.9	640.2	569.1	427.1	320.5
120°	1291.0	1381.4	1291.0	1200.5	1177.8	994.6	750.4	628.4	563.3	433.4	335.9
122.5°	1225.6	1314.9	1225.6	1136.3	1114.0	949.0	729.1	619.2	560.4	442.5	354.2
125°	1132.5	1214.7	1132.5	1050.2	1029.6	889.6	702.7	609.4	557.8	454.8	377.5
127.5°	1048.6	1118.0	1048.6	979.3	961.9	841.6	681.2	601.0	556.4	467.1	400.1
130°	999.2	1063.3	999.2	935.2	919.1	812.0	669.2	597.8	557.3	476.1	415.2
132.5°	954.4	1011.8	954.4	897.0	882.7	786.8	658.9	595.0	557.8	483.3	427.4
135°	893.0	942.5	893.0	843.5	831.1	750.9	643.8	590.3	557.3	491.3	441.8
137.5°	843.7	884.3	843.7	803.3	793.1	725.2	634.7	589.5	560.7	503.1	459.9
140°	810.0	847.8	810.0	772.1	762.6	704.0	625.8	586.7	561.3	510.4	472.3
142.5°	782.0	814.5	782.0	749.4	741.2	689.7	621.0	586.7	563.3	516.5	481.4
145°	740.0	764.6	740.0	715.3	709.1	667.0	610.9	582.8	563.3	524.4	495.2
147.5°	707.7	728.1	707.7	687.3	682.2	649.1	604.8	582.8	567.2	536.0	512.6
150°	687.5	704.0	687.5	670.9	666.8	638.7	601.4	582.8	569.2	542.1	521.8
152.5°	670.1	682.6	670.1	657.7	654.5	630.6	598.7	582.8	570.5	546.0	527.7
155°	650.2	658.4	650.2	641.9	639.9	620.9	595.5	582.8	573.4	554.7	540.8
157.5°	634.4	640.2	634.4	628.6	627.2	612.3	592.7	582.8	576.4	563.5	553.9
160°	624.9	628.4	624.9	621.6	620.8	608.1	591.2	582.8	577.7	567.4	559.8
162.5°	618.8	622.0	618.8	615.7	614.9	604.2	589.9	582.8	579.1	571.7	566.2
165°	609.9	613.3	609.9	606.6	605.8	598.1	587.9	582.8	581.1	577.7	575.3
167.5°	603.6	604.9	603.6	602.1	601.8	596.7	590.0	586.7	585.3	582.5	580.4
170°	601.8	601.8	601.8	601.8	601.8	596.7	590.0	586.7	586.6	586.4	586.3
172.5°	597.1	595.8	597.1	598.3	598.6	594.6	589.3	586.7	586.7	586.7	586.7
175°	594.3	594.3	594.3	594.3	594.3	591.7	588.4	586.7	587.5	589.1	590.3
177.5°	591.7	590.3	591.7	593.2	593.5	591.5	588.9	587.5	588.1	589.3	590.3
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



TEST NUMBER: P934871

CATALOG NUMBER: SQ4-FA-075U-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°	10.3	7.1	3.9	7.1	10.3	11.1	17.4	25.8	30.1	26.8	20.1
92.5°	69.7	42.8	15.8	42.8	69.7	76.4	107.4	148.8	169.5	148.6	106.7
95°	136.6	87.3	38.0	87.3	136.6	148.9	264.5	418.6	495.6	442.3	335.5
97.5°	152.7	109.2	65.8	109.2	152.7	163.6	356.3	613.2	741.7	707.9	640.5
100°	166.1	126.6	87.2	126.6	166.1	175.9	389.7	674.8	817.3	819.8	824.7
102.5°	179.0	142.2	105.4	142.2	179.0	188.2	405.0	694.1	838.7	881.6	967.6
105°	198.7	167.5	136.3	167.5	198.7	206.4	416.4	696.3	836.3	932.6	1125.2
107.5°	226.1	197.1	168.0	197.1	226.1	233.4	418.5	665.3	788.8	923.1	1191.9
110°	241.8	215.6	189.4	215.6	241.8	248.4	415.3	637.9	749.2	899.4	1199.8



TEST NUMBER: P934871

CATALOG NUMBER: SQ4-FA-075U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	260.4	235.3	210.4	235.3	260.4	266.6	415.4	613.9	713.1	866.8	1174.2
115°	288.1	265.1	242.1	265.1	288.1	293.9	419.3	586.3	669.9	818.0	1114.2
117.5°	315.2	294.3	273.3	294.3	315.2	320.5	427.1	569.1	640.2	773.9	1041.1
120°	331.0	311.3	291.6	311.3	331.0	335.9	433.4	563.3	628.4	750.4	994.6
122.5°	349.2	329.3	309.4	329.3	349.2	354.2	442.5	560.4	619.2	729.1	949.0
125°	373.0	354.9	336.7	354.9	373.0	377.5	454.8	557.8	609.4	702.7	889.6
127.5°	395.5	377.3	358.9	377.3	395.5	400.1	467.1	556.4	601.0	681.2	841.6
130°	410.2	390.6	370.8	390.6	410.2	415.2	476.1	557.3	597.8	669.2	812.0
132.5°	422.5	402.8	383.1	402.8	422.5	427.4	483.3	557.8	595.0	658.9	786.8
135°	437.2	419.3	401.3	419.3	437.2	441.8	491.3	557.3	590.3	643.8	750.9
137.5°	455.5	437.7	420.0	437.7	455.5	459.9	503.1	560.7	589.5	634.7	725.2
140°	468.2	451.7	435.4	451.7	468.2	472.3	510.4	561.3	586.7	625.8	704.0
142.5°	477.6	462.5	447.3	462.5	477.6	481.4	516.5	563.3	586.7	621.0	689.7
145°	491.9	478.7	465.5	478.7	491.9	495.2	524.4	563.3	582.8	610.9	667.0
147.5°	509.4	496.5	483.7	496.5	509.4	512.6	536.0	567.2	582.8	604.8	649.1
150°	518.9	507.2	495.6	507.2	518.9	521.8	542.1	569.2	582.8	601.4	638.7
152.5°	525.5	516.7	507.9	516.7	525.5	527.7	546.0	570.5	582.8	598.7	630.6
155°	539.1	532.6	526.1	532.6	539.1	540.8	554.7	573.4	582.8	595.5	620.9
157.5°	552.3	546.0	539.6	546.0	552.3	553.9	563.5	576.4	582.8	592.7	612.3
160°	558.6	553.6	548.7	553.6	558.6	559.8	567.4	577.7	582.8	591.2	608.1
162.5°	565.2	561.6	557.8	561.6	565.2	566.2	571.7	579.1	582.8	589.9	604.2
165°	574.4	571.1	567.7	571.1	574.4	575.3	577.7	581.1	582.8	587.9	598.1
167.5°	580.0	578.4	576.8	578.4	580.0	580.4	582.5	585.3	586.7	590.0	596.7
170°	585.9	584.4	582.8	584.4	585.9	586.3	586.4	586.6	586.7	590.0	596.7
172.5°	586.6	586.3	585.9	586.3	586.6	586.7	586.7	586.7	586.7	589.3	594.6
175°	590.3	590.3	590.3	590.3	590.3	590.3	589.1	587.5	586.7	588.4	591.7
177.5°	590.3	590.3	590.3	590.3	590.3	590.3	589.3	588.1	587.5	588.9	591.5
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



TEST NUMBER: P934871
 CATALOG NUMBER: SQ4-FA-075U-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°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.1	26.8	30.1	25.8
92.5°	75.2	72.2	60.2	48.3	60.2	72.2	75.2	106.7	148.6	169.5	148.8
95°	255.5	246.5	210.2	173.9	210.2	246.5	255.5	335.5	442.3	495.6	418.6
97.5°	589.9	572.6	503.6	434.6	503.6	572.6	589.9	640.5	707.9	741.7	613.2
100°	828.4	807.9	725.6	643.3	725.6	807.9	828.4	824.7	819.8	817.3	674.8
102.5°	1032.0	1014.4	944.0	873.6	944.0	1014.4	1032.0	967.6	881.6	838.7	694.1
105°	1269.7	1260.3	1222.4	1184.5	1222.4	1260.3	1269.7	1125.2	932.6	836.3	696.3
107.5°	1393.4	1395.7	1404.8	1413.9	1404.8	1395.7	1393.4	1191.9	923.1	788.8	665.3
110°	1425.1	1434.9	1474.3	1513.7	1474.3	1434.9	1425.1	1199.8	899.4	749.2	637.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1404.8	1419.9	1480.5	1541.1	1480.5	1419.9	1404.8	1174.2	866.8	713.1	613.9
115°	1336.3	1357.2	1441.2	1525.3	1441.2	1357.2	1336.3	1114.2	818.0	669.9	586.3
117.5°	1241.6	1264.9	1358.0	1451.1	1358.0	1264.9	1241.6	1041.1	773.9	640.2	569.1
120°	1177.8	1200.5	1291.0	1381.4	1291.0	1200.5	1177.8	994.6	750.4	628.4	563.3
122.5°	1114.0	1136.3	1225.6	1314.9	1225.6	1136.3	1114.0	949.0	729.1	619.2	560.4
125°	1029.6	1050.2	1132.5	1214.7	1132.5	1050.2	1029.6	889.6	702.7	609.4	557.8
127.5°	961.9	979.3	1048.6	1118.0	1048.6	979.3	961.9	841.6	681.2	601.0	556.4
130°	919.1	935.2	999.2	1063.3	999.2	935.2	919.1	812.0	669.2	597.8	557.3
132.5°	882.7	897.0	954.4	1011.8	954.4	897.0	882.7	786.8	658.9	595.0	557.8
135°	831.1	843.5	893.0	942.5	893.0	843.5	831.1	750.9	643.8	590.3	557.3
137.5°	793.1	803.3	843.7	884.3	843.7	803.3	793.1	725.2	634.7	589.5	560.7
140°	762.6	772.1	810.0	847.8	810.0	772.1	762.6	704.0	625.8	586.7	561.3
142.5°	741.2	749.4	782.0	814.5	782.0	749.4	741.2	689.7	621.0	586.7	563.3
145°	709.1	715.3	740.0	764.6	740.0	715.3	709.1	667.0	610.9	582.8	563.3
147.5°	682.2	687.3	707.7	728.1	707.7	687.3	682.2	649.1	604.8	582.8	567.2
150°	666.8	670.9	687.5	704.0	687.5	670.9	666.8	638.7	601.4	582.8	569.2
152.5°	654.5	657.7	670.1	682.6	670.1	657.7	654.5	630.6	598.7	582.8	570.5
155°	639.9	641.9	650.2	658.4	650.2	641.9	639.9	620.9	595.5	582.8	573.4
157.5°	627.2	628.6	634.4	640.2	634.4	628.6	627.2	612.3	592.7	582.8	576.4
160°	620.8	621.6	624.9	628.4	624.9	621.6	620.8	608.1	591.2	582.8	577.7
162.5°	614.9	615.7	618.8	622.0	618.8	615.7	614.9	604.2	589.9	582.8	579.1
165°	605.8	606.6	609.9	613.3	609.9	606.6	605.8	598.1	587.9	582.8	581.1
167.5°	601.8	602.1	603.6	604.9	603.6	602.1	601.8	596.7	590.0	586.7	585.3
170°	601.8	601.8	601.8	601.8	601.8	601.8	601.8	596.7	590.0	586.7	586.6
172.5°	598.6	598.3	597.1	595.8	597.1	598.3	598.6	594.6	589.3	586.7	586.7
175°	594.3	594.3	594.3	594.3	594.3	594.3	594.3	591.7	588.4	586.7	587.5
177.5°	593.5	593.2	591.7	590.3	591.7	593.2	593.5	591.5	588.9	587.5	588.1
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



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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°	17.4	11.1	10.3	7.1	3.9
92.5°	107.4	76.4	69.7	42.8	15.8
95°	264.5	148.9	136.6	87.3	38.0
97.5°	356.3	163.6	152.7	109.2	65.8
100°	389.7	175.9	166.1	126.6	87.2
102.5°	405.0	188.2	179.0	142.2	105.4
105°	416.4	206.4	198.7	167.5	136.3
107.5°	418.5	233.4	226.1	197.1	168.0
110°	415.3	248.4	241.8	215.6	189.4



TEST NUMBER: P934871

CATALOG NUMBER: SQ4-FA-075U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	415.4	266.6	260.4	235.3	210.4
115°	419.3	293.9	288.1	265.1	242.1
117.5°	427.1	320.5	315.2	294.3	273.3
120°	433.4	335.9	331.0	311.3	291.6
122.5°	442.5	354.2	349.2	329.3	309.4
125°	454.8	377.5	373.0	354.9	336.7
127.5°	467.1	400.1	395.5	377.3	358.9
130°	476.1	415.2	410.2	390.6	370.8
132.5°	483.3	427.4	422.5	402.8	383.1
135°	491.3	441.8	437.2	419.3	401.3
137.5°	503.1	459.9	455.5	437.7	420.0
140°	510.4	472.3	468.2	451.7	435.4
142.5°	516.5	481.4	477.6	462.5	447.3
145°	524.4	495.2	491.9	478.7	465.5
147.5°	536.0	512.6	509.4	496.5	483.7
150°	542.1	521.8	518.9	507.2	495.6
152.5°	546.0	527.7	525.5	516.7	507.9
155°	554.7	540.8	539.1	532.6	526.1
157.5°	563.5	553.9	552.3	546.0	539.6
160°	567.4	559.8	558.6	553.6	548.7
162.5°	571.7	566.2	565.2	561.6	557.8
165°	577.7	575.3	574.4	571.1	567.7
167.5°	582.5	580.4	580.0	578.4	576.8
170°	586.4	586.3	585.9	584.4	582.8
172.5°	586.7	586.7	586.6	586.3	585.9
175°	589.1	590.3	590.3	590.3	590.3
177.5°	589.3	590.3	590.3	590.3	590.3
180°	590.3	590.3	590.3	590.3	590.3



TEST NUMBER: P934871
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.57	14.48	14.49	15.41	16.62	16.40	17.30	17.31	18.24	19.44
	3H	14.05	14.87	14.98	15.81	17.04	17.75	18.56	18.67	19.50	20.73
	4H	14.25	15.02	15.19	15.96	17.20	18.19	18.96	19.13	19.91	21.14
	6H	14.37	15.08	15.32	16.03	17.28	18.48	19.18	19.43	20.14	21.39
	8H	14.37	15.05	15.33	16.02	17.26	18.55	19.23	19.51	20.20	21.44
	12H	14.34	14.99	15.31	15.95	17.22	18.59	19.23	19.56	20.20	21.47
4H	2H	14.61	15.38	15.56	16.33	17.56	16.81	17.58	17.76	18.53	19.76
	3H	15.64	16.28	16.60	17.26	18.51	18.32	18.96	19.28	19.94	21.19
	4H	15.92	16.50	16.89	17.48	18.75	18.85	19.43	19.82	20.41	21.68
	6H	16.05	16.55	17.03	17.55	18.82	19.22	19.72	20.20	20.72	21.99
	8H	16.05	16.52	17.04	17.51	18.80	19.32	19.79	20.31	20.78	22.07
	12H	16.02	16.45	17.02	17.45	18.75	19.38	19.81	20.38	20.81	22.10
8H	4H	16.38	16.85	17.36	17.84	19.12	18.98	19.45	19.96	20.44	21.73
	6H	16.64	17.03	17.65	18.06	19.35	19.42	19.80	20.42	20.84	22.12
	8H	16.68	17.03	17.70	18.04	19.35	19.57	19.91	20.58	20.93	22.23
	12H	16.67	16.97	17.69	17.98	19.33	19.67	19.97	20.69	20.98	22.33
12H	4H	16.38	16.81	17.39	17.81	19.11	18.95	19.37	19.95	20.38	21.67
	6H	16.70	17.04	17.72	18.06	19.37	19.41	19.76	20.43	20.77	22.08
	8H	16.77	17.07	17.79	18.08	19.43	19.58	19.88	20.59	20.89	22.24