

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: P935006

Luminaire Tested: SQ4-FA-075U-125D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935006
REPORT IS A COMBINATION OF REPORTS P933718 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-125D-B50-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

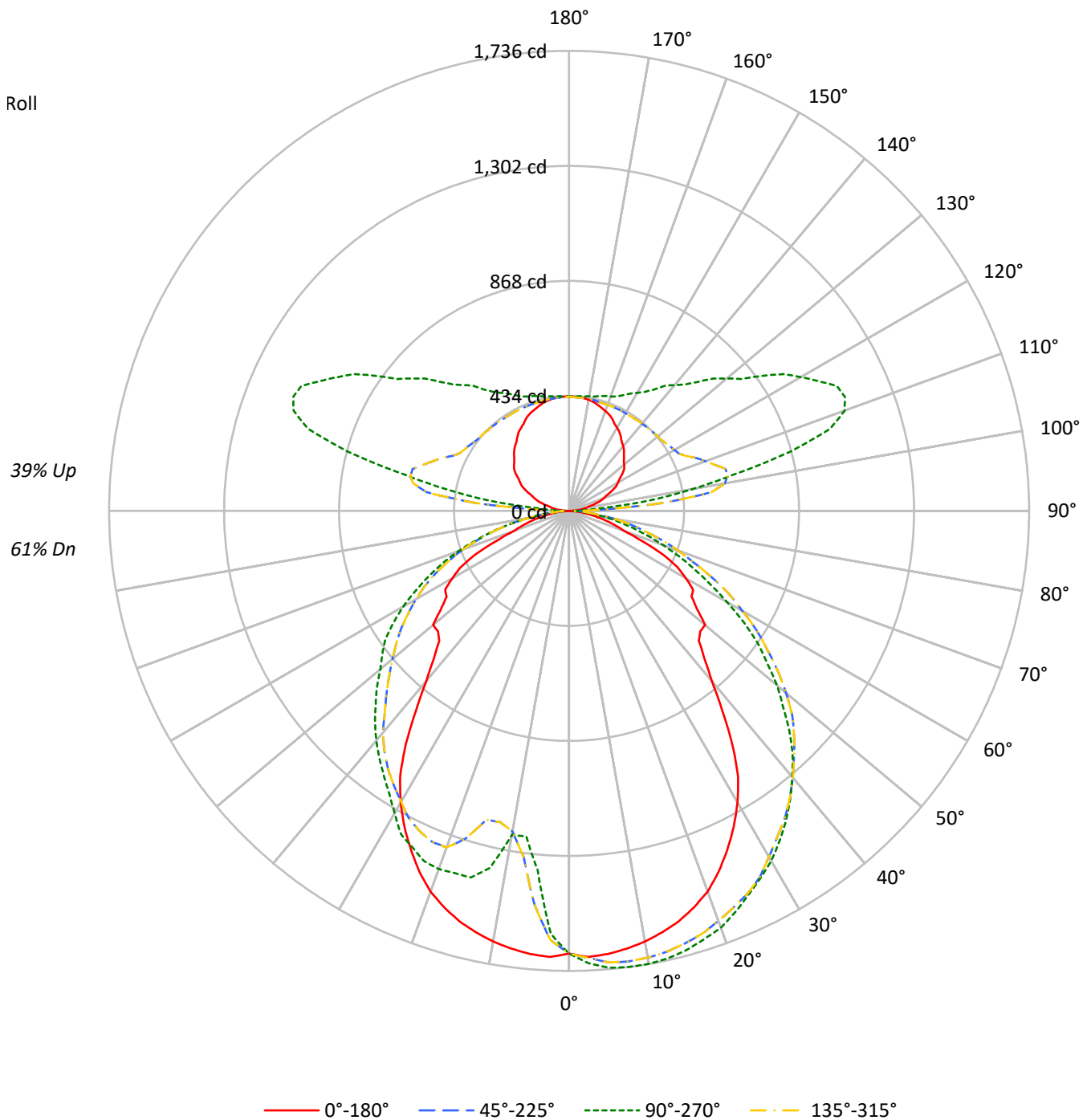
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7130.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62
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				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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	56	56	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	47	47	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	40	40	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	35	35	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	30	30	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	26	26	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15503	15503	15503	15503
5°	15602	15650	15602	12305
10°	15481	15416	15481	11021
15°	15294	15082	15294	12593
20°	14957	14686	14957	12620
25°	14285	14109	14285	12352
30°	13423	13630	13423	11766
35°	11949	13024	11949	11120
40°	9939	12310	9939	10632
45°	8863	11475	8863	10072
50°	9394	10479	9394	9509
55°	8814	9407	8814	9183
60°	9052	7989	9052	8411
65°	8169	6604	8169	7383
70°	5618	5263	5618	6187
75°	4873	3891	4873	4659
80°	3847	2571	3847	2801
85°	2095	1362	2095	1157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13610 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	2.1
10°-20°	428.2	6.0
20°-30°	661.9	9.3
30°-40°	790.2	11.1
40°-50°	794.8	11.1
50°-60°	691.6	9.7
60°-70°	490.3	6.9
70°-80°	259.4	3.6
80°-90°	66.3	0.9
90°-100°	210.3	2.9
100°-110°	552.9	7.8
110°-120°	573.3	8.0
120°-130°	459.8	6.4
130°-140°	360.8	5.1
140°-150°	276.9	3.9
150°-160°	199.4	2.8
160°-170°	122.0	1.7
170°-180°	41.2	0.6
0°-30°	1240.9	17.4
0°-40°	2031.1	28.5
0°-60°	3517.5	49.3
0°-90°	4333.5	60.8
90°-120°	1336.4	18.7
90°-150°	2433.9	34.1
90°-180°	2797.0	39.2
0°-180°	7130.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1671	1671	1671	1671	1671	
5°	1679	1731	1679	1361	1679	159
15°	1603	1715	1603	1432	1603	451
25°	1412	1600	1412	1400	1412	648
35°	1073	1427	1073	1219	1073	664
45°	692	1176	692	1032	692	555
55°	564	868	564	847	564	519
65°	392	523	392	585	392	375
75°	149	248	149	297	149	156
85°	25	63	25	54	25	34
90°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	100	866	100	866	100	106
115°	177	1115	177	1115	177	175
125°	246	888	246	888	246	219
135°	293	689	293	689	293	227
145°	340	559	340	559	340	213
155°	384	481	384	481	384	177
165°	415	448	415	448	415	117
175°	431	434	431	434	431	41
180°	431	431	431	431	431	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1684.9	1684.9	1694.5	1697.6	1697.6	1692.9	1688.1	1692.9	1707.1	1711.8	1710.2
5°	1678.6	1691.3	1708.7	1711.8	1715.0	1713.4	1710.2	1713.4	1729.2	1732.4	1734.0
7.5°	1666.0	1689.7	1711.8	1716.6	1721.3	1716.6	1715.0	1718.2	1734.0	1737.1	1737.1
10°	1650.2	1683.3	1708.7	1711.8	1716.6	1711.8	1711.8	1718.2	1734.0	1737.1	1738.7
12.5°	1628.1	1673.9	1697.6	1700.7	1707.1	1705.5	1703.9	1710.2	1726.0	1729.2	1729.2
15°	1602.7	1656.5	1678.6	1681.8	1692.9	1689.7	1689.7	1696.1	1713.4	1718.2	1716.6
17.5°	1568.0	1634.4	1659.6	1664.4	1672.3	1670.7	1672.3	1678.6	1694.5	1697.6	1699.1
20°	1528.5	1604.3	1634.4	1639.1	1647.0	1647.0	1647.0	1655.0	1670.7	1677.1	1677.1
22.5°	1474.7	1572.8	1604.3	1607.5	1616.9	1616.9	1620.1	1631.2	1645.4	1647.0	1647.0
25°	1411.5	1537.9	1564.8	1574.4	1583.8	1588.5	1593.3	1599.6	1604.3	1602.7	1604.3
27.5°	1345.1	1493.7	1528.5	1534.7	1547.5	1552.2	1558.5	1560.1	1561.6	1566.4	1563.2
30°	1270.8	1432.0	1484.2	1490.6	1511.1	1514.2	1507.9	1511.1	1519.0	1522.1	1525.3
32.5°	1187.0	1340.4	1438.4	1452.6	1471.6	1462.1	1460.5	1465.3	1477.9	1477.9	1481.0
35°	1073.3	1269.2	1395.7	1408.4	1422.6	1411.5	1417.8	1419.4	1427.3	1432.0	1430.5
37.5°	948.4	1207.6	1351.4	1360.9	1372.0	1357.8	1367.3	1372.0	1378.3	1375.1	1375.1
40°	837.7	1111.2	1299.3	1305.6	1315.1	1304.1	1313.5	1316.7	1319.8	1316.7	1315.1
42.5°	755.5	1005.3	1244.0	1251.8	1245.5	1253.4	1256.6	1263.0	1258.2	1251.8	1251.8
45°	692.3	976.9	1183.8	1193.4	1183.8	1196.5	1201.3	1201.3	1187.0	1183.8	1182.4
47.5°	671.7	919.9	1123.8	1123.8	1119.1	1134.9	1142.7	1131.7	1117.5	1112.8	1112.8
50°	670.1	856.7	1041.6	1035.3	1057.5	1076.4	1068.5	1057.5	1046.4	1029.0	1029.0
52.5°	608.5	779.2	935.8	959.4	994.2	1005.3	992.7	981.5	962.6	954.7	948.4
55°	564.3	698.6	839.3	886.7	923.1	937.3	913.6	902.5	874.1	869.4	866.2
57.5°	554.8	581.7	750.8	810.9	855.1	853.6	839.3	818.7	795.0	790.4	788.8
60°	508.9	420.5	655.9	727.1	772.9	768.2	755.5	736.6	714.4	711.2	708.2
62.5°	461.6	305.0	548.4	629.0	693.9	692.3	681.3	652.8	637.0	629.0	622.8
65°	392.0	256.1	390.4	523.2	616.4	619.6	595.9	575.3	558.0	548.4	546.9
67.5°	298.7	208.7	263.9	436.3	542.2	539.0	508.9	499.5	477.4	472.6	463.2
70°	221.3	139.1	183.3	354.1	469.4	461.6	437.9	426.7	406.2	395.2	388.8
72.5°	183.3	112.3	134.3	275.1	395.2	385.6	365.1	352.5	335.1	325.6	319.2
75°	148.6	118.5	102.7	203.9	320.8	314.6	295.6	282.9	268.7	256.1	257.6
77.5°	109.1	110.7	82.2	150.2	254.5	245.0	234.0	218.1	211.8	199.1	199.1
80°	82.2	87.0	61.6	102.7	183.3	183.3	173.9	162.8	151.8	145.4	145.4
82.5°	55.3	55.3	45.9	64.8	124.9	120.1	113.8	110.7	104.3	101.2	101.2
85°	25.3	31.6	28.5	39.5	68.0	71.2	71.2	68.0	66.4	63.2	64.8
87.5°	7.9	14.2	17.4	22.1	34.7	36.3	37.9	37.9	37.9	39.5	39.5
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7	11.0	11.0
92.5°	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0	55.0	52.9
95°	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2	186.7	180.1
97.5°	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1	431.1	418.5
100°	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7	605.4	590.4
102.5°	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1	754.2	741.3
105°	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4	927.9	921.0
107.5°	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0	1018.2	1019.9
110°	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7	1041.4	1048.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2	1026.7	1037.8
115°	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3	976.6	991.9
117.5°	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8	907.4	924.4
120°	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9	860.8	877.3
122.5°	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6	814.2	830.5
125°	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2	752.5	767.6
127.5°	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1	703.0	715.7
130°	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5	671.7	683.4
132.5°	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1	645.1	655.6
135°	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8	607.5	616.5
137.5°	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0	579.6	587.0
140°	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4	557.3	564.2
142.5°	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1	541.7	547.7
145°	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5	518.3	522.8
147.5°	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4	498.6	502.3
150°	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8	487.3	490.3
152.5°	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8	478.3	480.5
155°	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6	467.6	469.1
157.5°	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5	458.3	459.3
160°	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5	453.7	454.3
162.5°	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5	449.3	449.9
165°	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1	442.7	443.4
167.5°	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2	439.8	440.1
170°	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2	439.8	439.8
172.5°	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6	437.5	437.3
175°	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4	434.3	434.3
177.5°	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3	433.7	433.5
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1713.4	1708.7	1713.4	1710.2	1711.8	1707.1	1692.9	1688.1	1692.9	1697.6	1697.6
5°	1734.0	1730.8	1734.0	1734.0	1732.4	1729.2	1713.4	1710.2	1713.4	1715.0	1711.8
7.5°	1740.2	1735.6	1740.2	1737.1	1737.1	1734.0	1718.2	1715.0	1716.6	1721.3	1716.6
10°	1740.2	1735.6	1740.2	1738.7	1737.1	1734.0	1718.2	1711.8	1711.8	1716.6	1711.8
12.5°	1732.4	1729.2	1732.4	1729.2	1729.2	1726.0	1710.2	1703.9	1705.5	1707.1	1700.7
15°	1719.7	1715.0	1719.7	1716.6	1718.2	1713.4	1696.1	1689.7	1689.7	1692.9	1681.8
17.5°	1700.7	1694.5	1700.7	1699.1	1697.6	1694.5	1678.6	1672.3	1670.7	1672.3	1664.4
20°	1678.6	1673.9	1678.6	1677.1	1677.1	1670.7	1655.0	1647.0	1647.0	1647.0	1639.1
22.5°	1643.8	1639.1	1643.8	1647.0	1647.0	1645.4	1631.2	1620.1	1616.9	1616.9	1607.5
25°	1604.3	1599.6	1604.3	1604.3	1602.7	1604.3	1599.6	1593.3	1588.5	1583.8	1574.4
27.5°	1566.4	1563.2	1566.4	1563.2	1566.4	1561.6	1560.1	1558.5	1552.2	1547.5	1534.7
30°	1528.5	1525.3	1528.5	1525.3	1522.1	1519.0	1511.1	1507.9	1514.2	1511.1	1490.6
32.5°	1481.0	1477.9	1481.0	1481.0	1477.9	1477.9	1465.3	1460.5	1462.1	1471.6	1452.6
35°	1432.0	1427.3	1432.0	1430.5	1432.0	1427.3	1419.4	1417.8	1411.5	1422.6	1408.4
37.5°	1375.1	1370.4	1375.1	1375.1	1375.1	1378.3	1372.0	1367.3	1357.8	1372.0	1360.9
40°	1316.7	1310.3	1316.7	1315.1	1316.7	1319.8	1316.7	1313.5	1304.1	1315.1	1305.6
42.5°	1250.3	1248.7	1250.3	1251.8	1251.8	1258.2	1263.0	1256.6	1253.4	1245.5	1251.8
45°	1179.2	1176.0	1179.2	1182.4	1183.8	1187.0	1201.3	1201.3	1196.5	1183.8	1193.4
47.5°	1103.2	1095.4	1103.2	1112.8	1112.8	1117.5	1131.7	1142.7	1134.9	1119.1	1123.8
50°	1022.6	1024.2	1022.6	1029.0	1029.0	1046.4	1057.5	1068.5	1076.4	1057.5	1035.3
52.5°	943.6	942.0	943.6	948.4	954.7	962.6	981.5	992.7	1005.3	994.2	959.4
55°	864.6	867.8	864.6	866.2	869.4	874.1	902.5	913.6	937.3	923.1	886.7
57.5°	785.6	780.8	785.6	788.8	790.4	795.0	818.7	839.3	853.6	855.1	810.9
60°	693.9	687.6	693.9	708.2	711.2	714.4	736.6	755.5	768.2	772.9	727.1
62.5°	613.3	602.2	613.3	622.8	629.0	637.0	652.8	681.3	692.3	693.9	629.0
65°	527.9	523.2	527.9	546.9	548.4	558.0	575.3	595.9	619.6	616.4	523.2
67.5°	450.5	450.5	450.5	463.2	472.6	477.4	499.5	508.9	539.0	542.2	436.3
70°	379.4	377.8	379.4	388.8	395.2	406.2	426.7	437.9	461.6	469.4	354.1
72.5°	311.4	309.8	311.4	319.2	325.6	335.1	352.5	365.1	385.6	395.2	275.1
75°	251.3	248.2	251.3	257.6	256.1	268.7	282.9	295.6	314.6	320.8	203.9
77.5°	192.9	192.9	192.9	199.1	199.1	211.8	218.1	234.0	245.0	254.5	150.2
80°	143.8	142.2	143.8	145.4	145.4	151.8	162.8	173.9	183.3	183.3	102.7
82.5°	101.2	98.0	101.2	101.2	101.2	104.3	110.7	113.8	120.1	124.9	64.8
85°	63.2	63.2	63.2	64.8	63.2	66.4	68.0	71.2	71.2	68.0	39.5
87.5°	41.1	39.5	41.1	39.5	39.5	37.9	37.9	37.9	36.3	34.7	22.1
90°	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0	12.8	8.1
92.5°	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8	78.5	55.9
95°	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9	193.3	108.9
97.5°	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1	260.4	119.6
100°	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2	284.8	128.5
102.5°	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3	296.0	137.5
105°	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9	304.3	150.8
107.5°	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2	305.9	170.5
110°	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2	303.6	181.6



TEST NUMBER: P935006

CATALOG NUMBER: SQ4-FA-075U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7	303.6	194.8
115°	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5	306.4	214.8
117.5°	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9	312.1	234.2
120°	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7	316.7	245.5
122.5°	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5	323.4	258.8
125°	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7	332.4	275.9
127.5°	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7	341.4	292.4
130°	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2	347.9	303.5
132.5°	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7	353.2	312.4
135°	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3	359.0	322.8
137.5°	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8	367.7	336.1
140°	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2	373.0	345.1
142.5°	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7	377.4	351.7
145°	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7	383.2	361.9
147.5°	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5	391.7	374.6
150°	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0	396.2	381.4
152.5°	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9	399.1	385.6
155°	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1	405.4	395.2
157.5°	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2	411.8	404.8
160°	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2	414.7	409.1
162.5°	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2	417.8	413.8
165°	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7	422.3	420.4
167.5°	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8	425.7	424.1
170°	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7	428.6	428.5
172.5°	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4	430.6	431.4
177.5°	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8	430.8	431.4
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P935006

CATALOG NUMBER: SQ4-FA-075U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1694.5	1684.9	1684.9	1669.2	1662.8	1658.0	1650.2	1626.5	1620.1	1613.9	1623.3
5°	1708.7	1691.3	1678.6	1650.2	1626.5	1616.9	1587.0	1530.1	1492.2	1463.7	1447.9
7.5°	1711.8	1689.7	1666.0	1621.7	1564.8	1539.5	1447.9	1343.6	1315.1	1289.8	1274.0
10°	1708.7	1683.3	1650.2	1583.8	1449.5	1405.2	1313.5	1245.5	1228.1	1223.4	1228.1
12.5°	1697.6	1673.9	1628.1	1517.4	1329.3	1299.3	1245.5	1206.0	1202.9	1210.7	1253.4
15°	1678.6	1656.5	1602.7	1428.9	1263.0	1240.8	1202.9	1188.6	1206.0	1261.4	1389.4
17.5°	1659.6	1634.4	1568.0	1342.0	1212.3	1196.5	1169.6	1198.1	1296.1	1370.4	1413.0
20°	1634.4	1604.3	1528.5	1278.7	1176.0	1161.8	1149.1	1277.2	1351.4	1378.3	1402.0
22.5°	1604.3	1572.8	1474.7	1234.5	1138.1	1127.0	1134.9	1321.4	1351.4	1370.4	1390.9
25°	1564.8	1537.9	1411.5	1199.7	1108.0	1095.4	1125.4	1316.7	1334.0	1338.8	1379.9
27.5°	1528.5	1493.7	1345.1	1168.1	1071.7	1066.9	1133.3	1296.1	1308.7	1313.5	1357.8
30°	1484.2	1432.0	1270.8	1134.9	1033.8	1032.2	1134.9	1270.8	1267.6	1280.3	1324.6
32.5°	1438.4	1340.4	1187.0	1093.8	997.4	995.8	1123.8	1232.9	1229.7	1247.1	1280.3
35°	1395.7	1269.2	1073.3	1046.4	951.6	953.1	1097.0	1188.6	1190.2	1206.0	1226.5
37.5°	1351.4	1207.6	948.4	994.2	907.3	907.3	1060.6	1147.5	1144.3	1149.1	1177.6
40°	1299.3	1111.2	837.7	926.2	866.2	861.4	1016.4	1103.2	1092.2	1090.6	1130.1
42.5°	1244.0	1005.3	755.5	836.1	818.7	812.5	962.6	1049.5	1029.0	1033.8	1084.3
45°	1183.8	976.9	692.3	706.6	769.8	765.0	904.1	987.9	973.7	986.3	1038.5
47.5°	1123.8	919.9	671.7	586.5	717.6	716.0	839.3	927.8	919.9	932.6	987.9
50°	1041.6	856.7	670.1	502.7	659.1	665.5	761.9	869.4	869.4	880.4	938.9
52.5°	935.8	779.2	608.5	455.2	591.1	610.1	693.9	818.7	821.9	833.0	885.2
55°	839.3	698.6	564.3	418.9	510.5	551.6	627.6	766.6	772.9	784.0	831.4
57.5°	750.8	581.7	554.8	376.2	436.3	475.8	569.0	716.0	719.2	728.7	774.5
60°	655.9	420.5	508.9	330.4	371.5	401.4	515.3	655.9	667.1	673.3	712.8
62.5°	548.4	305.0	461.6	298.7	339.8	346.1	471.0	599.1	613.3	618.0	641.8
65°	390.4	256.1	392.0	271.9	306.6	308.2	423.6	540.6	553.2	561.1	578.5
67.5°	263.9	208.7	298.7	246.6	281.3	282.9	377.8	472.6	490.0	496.3	507.3
70°	183.3	139.1	221.3	219.7	252.9	256.1	328.8	411.0	426.7	431.5	437.9
72.5°	134.3	112.3	183.3	197.5	222.9	226.0	278.1	341.4	357.3	361.9	365.1
75°	102.7	118.5	148.6	172.3	189.7	191.3	227.6	278.1	289.3	292.4	294.0
77.5°	82.2	110.7	109.1	139.1	154.9	151.8	178.6	215.0	224.4	224.4	224.4
80°	61.6	87.0	82.2	99.6	113.8	110.7	128.1	153.4	156.4	159.6	158.0
82.5°	45.9	55.3	55.3	63.2	75.8	72.7	85.4	99.6	99.6	99.6	102.7
85°	28.5	31.6	25.3	33.2	42.7	41.1	47.4	53.7	55.3	55.3	52.1
87.5°	17.4	14.2	7.9	12.6	19.0	19.0	22.1	23.7	22.1	22.1	22.1
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7
92.5°	50.9	31.3	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0
95°	99.9	63.9	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2
97.5°	111.6	79.9	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1
100°	121.3	92.5	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7
102.5°	130.8	104.0	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1
105°	145.1	122.4	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4
107.5°	165.2	144.0	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0
110°	176.8	157.6	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7



TEST NUMBER: P935006

CATALOG NUMBER: SQ4-FA-075U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	190.3	172.0	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2
115°	210.6	193.7	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3
117.5°	230.4	215.1	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8
120°	241.9	227.5	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9
122.5°	255.2	240.7	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6
125°	272.6	259.4	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2
127.5°	289.1	275.7	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1
130°	299.8	285.4	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5
132.5°	308.8	294.4	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1
135°	319.5	306.4	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8
137.5°	332.9	319.9	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0
140°	342.1	330.2	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4
142.5°	348.9	337.9	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1
145°	359.5	349.9	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5
147.5°	372.3	362.9	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4
150°	379.2	370.7	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8
152.5°	384.1	377.6	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8
155°	394.0	389.3	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6
157.5°	403.7	399.0	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5
160°	408.2	404.6	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5
162.5°	413.1	410.4	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5
165°	419.7	417.3	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1
167.5°	423.8	422.6	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2
170°	428.2	427.0	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2
172.5°	428.7	428.5	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6
175°	431.4	431.4	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4
177.5°	431.4	431.4	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P935006
 CATALOG NUMBER: SQ4-FA-075U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1612.3	1607.5	1613.9	1596.4	1613.9	1607.5	1612.3	1623.3	1613.9	1620.1	1626.5
5°	1414.6	1406.8	1381.5	1360.9	1381.5	1406.8	1414.6	1447.9	1463.7	1492.2	1530.1
7.5°	1264.5	1258.2	1251.8	1239.2	1251.8	1258.2	1264.5	1274.0	1289.8	1315.1	1343.6
10°	1231.3	1232.9	1242.4	1240.8	1242.4	1232.9	1231.3	1228.1	1223.4	1228.1	1245.5
12.5°	1316.7	1330.9	1383.1	1379.9	1383.1	1330.9	1316.7	1253.4	1210.7	1202.9	1206.0
15°	1414.6	1419.4	1430.5	1432.0	1430.5	1419.4	1414.6	1389.4	1261.4	1206.0	1188.6
17.5°	1424.2	1425.8	1433.6	1433.6	1433.6	1425.8	1424.2	1413.0	1370.4	1296.1	1198.1
20°	1416.2	1419.4	1435.2	1438.4	1435.2	1419.4	1416.2	1402.0	1378.3	1351.4	1277.2
22.5°	1413.0	1419.4	1432.0	1430.5	1432.0	1419.4	1413.0	1390.9	1370.4	1351.4	1321.4
25°	1397.3	1397.3	1398.9	1400.4	1398.9	1397.3	1397.3	1379.9	1338.8	1334.0	1316.7
27.5°	1364.1	1367.3	1376.7	1375.1	1376.7	1367.3	1364.1	1357.8	1313.5	1308.7	1296.1
30°	1334.0	1330.9	1323.0	1316.7	1323.0	1330.9	1334.0	1324.6	1280.3	1267.6	1270.8
32.5°	1283.5	1275.6	1267.6	1263.0	1267.6	1275.6	1283.5	1280.3	1247.1	1229.7	1232.9
35°	1223.4	1224.9	1223.4	1218.7	1223.4	1224.9	1223.4	1226.5	1206.0	1190.2	1188.6
37.5°	1180.8	1183.8	1182.4	1176.0	1182.4	1183.8	1180.8	1177.6	1149.1	1144.3	1147.5
40°	1136.5	1138.1	1136.5	1131.7	1136.5	1138.1	1136.5	1130.1	1090.6	1092.2	1103.2
42.5°	1093.8	1092.2	1087.5	1084.3	1087.5	1092.2	1093.8	1084.3	1033.8	1029.0	1049.5
45°	1044.8	1046.4	1036.9	1032.2	1036.9	1046.4	1044.8	1038.5	986.3	973.7	987.9
47.5°	995.8	995.8	987.9	983.1	987.9	995.8	995.8	987.9	932.6	919.9	927.8
50°	943.6	942.0	931.0	929.4	931.0	942.0	943.6	938.9	880.4	869.4	869.4
52.5°	883.6	883.6	885.2	888.3	885.2	883.6	883.6	885.2	833.0	821.9	818.7
55°	831.4	833.0	844.1	847.2	844.1	833.0	831.4	831.4	784.0	772.9	766.6
57.5°	777.6	777.6	785.6	785.6	785.6	777.6	777.6	774.5	728.7	719.2	716.0
60°	716.0	719.2	725.5	723.9	725.5	719.2	716.0	712.8	673.3	667.1	655.9
62.5°	651.2	654.4	655.9	652.8	655.9	654.4	651.2	641.8	618.0	613.3	599.1
65°	583.3	586.5	588.0	584.9	588.0	586.5	583.3	578.5	561.1	553.2	540.6
67.5°	513.7	512.1	510.5	516.9	510.5	512.1	513.7	507.3	496.3	490.0	472.6
70°	442.5	442.5	441.0	444.1	441.0	442.5	442.5	437.9	431.5	426.7	411.0
72.5°	366.7	365.1	371.5	366.7	371.5	365.1	366.7	365.1	361.9	357.3	341.4
75°	292.4	295.6	292.4	297.2	292.4	295.6	292.4	294.0	292.4	289.3	278.1
77.5°	222.9	226.0	222.9	222.9	222.9	226.0	222.9	224.4	224.4	224.4	215.0
80°	158.0	156.4	156.4	154.9	156.4	156.4	158.0	158.0	159.6	156.4	153.4
82.5°	101.2	99.6	99.6	102.7	99.6	99.6	101.2	102.7	99.6	99.6	99.6
85°	55.3	56.9	53.7	53.7	53.7	56.9	55.3	52.1	55.3	55.3	53.7
87.5°	20.5	19.0	19.0	19.0	19.0	19.0	20.5	22.1	22.1	22.1	23.7
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0
92.5°	55.0	52.9	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8
95°	186.7	180.1	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9
97.5°	431.1	418.5	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1
100°	605.4	590.4	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2
102.5°	754.2	741.3	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3
105°	927.9	921.0	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9
107.5°	1018.2	1019.9	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2
110°	1041.4	1048.6	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1026.7	1037.8	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7
115°	976.6	991.9	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5
117.5°	907.4	924.4	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9
120°	860.8	877.3	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7
122.5°	814.2	830.5	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5
125°	752.5	767.6	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7
127.5°	703.0	715.7	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7
130°	671.7	683.4	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2
132.5°	645.1	655.6	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7
135°	607.5	616.5	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3
137.5°	579.6	587.0	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8
140°	557.3	564.2	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2
142.5°	541.7	547.7	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7
145°	518.3	522.8	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7
147.5°	498.6	502.3	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5
150°	487.3	490.3	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0
152.5°	478.3	480.5	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9
155°	467.6	469.1	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1
157.5°	458.3	459.3	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2
160°	453.7	454.3	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2
162.5°	449.3	449.9	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2
165°	442.7	443.4	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7
167.5°	439.8	440.1	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8
170°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7
172.5°	437.5	437.3	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4
177.5°	433.7	433.5	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P935006

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1650.2	1658.0	1662.8	1669.2	1684.9
5°	1587.0	1616.9	1626.5	1650.2	1678.6
7.5°	1447.9	1539.5	1564.8	1621.7	1666.0
10°	1313.5	1405.2	1449.5	1583.8	1650.2
12.5°	1245.5	1299.3	1329.3	1517.4	1628.1
15°	1202.9	1240.8	1263.0	1428.9	1602.7
17.5°	1169.6	1196.5	1212.3	1342.0	1568.0
20°	1149.1	1161.8	1176.0	1278.7	1528.5
22.5°	1134.9	1127.0	1138.1	1234.5	1474.7
25°	1125.4	1095.4	1108.0	1199.7	1411.5
27.5°	1133.3	1066.9	1071.7	1168.1	1345.1
30°	1134.9	1032.2	1033.8	1134.9	1270.8
32.5°	1123.8	995.8	997.4	1093.8	1187.0
35°	1097.0	953.1	951.6	1046.4	1073.3
37.5°	1060.6	907.3	907.3	994.2	948.4
40°	1016.4	861.4	866.2	926.2	837.7
42.5°	962.6	812.5	818.7	836.1	755.5
45°	904.1	765.0	769.8	706.6	692.3
47.5°	839.3	716.0	717.6	586.5	671.7
50°	761.9	665.5	659.1	502.7	670.1
52.5°	693.9	610.1	591.1	455.2	608.5
55°	627.6	551.6	510.5	418.9	564.3
57.5°	569.0	475.8	436.3	376.2	554.8
60°	515.3	401.4	371.5	330.4	508.9
62.5°	471.0	346.1	339.8	298.7	461.6
65°	423.6	308.2	306.6	271.9	392.0
67.5°	377.8	282.9	281.3	246.6	298.7
70°	328.8	256.1	252.9	219.7	221.3
72.5°	278.1	226.0	222.9	197.5	183.3
75°	227.6	191.3	189.7	172.3	148.6
77.5°	178.6	151.8	154.9	139.1	109.1
80°	128.1	110.7	113.8	99.6	82.2
82.5°	85.4	72.7	75.8	63.2	55.3
85°	47.4	41.1	42.7	33.2	25.3
87.5°	22.1	19.0	19.0	12.6	7.9
90°	12.8	8.1	7.6	5.2	2.9
92.5°	78.5	55.9	50.9	31.3	11.6
95°	193.3	108.9	99.9	63.9	27.8
97.5°	260.4	119.6	111.6	79.9	48.1
100°	284.8	128.5	121.3	92.5	63.7
102.5°	296.0	137.5	130.8	104.0	77.1
105°	304.3	150.8	145.1	122.4	99.6
107.5°	305.9	170.5	165.2	144.0	122.7
110°	303.6	181.6	176.8	157.6	138.4



TEST NUMBER: P935006

CATALOG NUMBER: SQ4-FA-075U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	303.6	194.8	190.3	172.0	153.7
115°	306.4	214.8	210.6	193.7	176.9
117.5°	312.1	234.2	230.4	215.1	199.8
120°	316.7	245.5	241.9	227.5	213.1
122.5°	323.4	258.8	255.2	240.7	226.1
125°	332.4	275.9	272.6	259.4	246.1
127.5°	341.4	292.4	289.1	275.7	262.4
130°	347.9	303.5	299.8	285.4	271.0
132.5°	353.2	312.4	308.8	294.4	280.0
135°	359.0	322.8	319.5	306.4	293.3
137.5°	367.7	336.1	332.9	319.9	306.9
140°	373.0	345.1	342.1	330.2	318.2
142.5°	377.4	351.7	348.9	337.9	326.9
145°	383.2	361.9	359.5	349.9	340.2
147.5°	391.7	374.6	372.3	362.9	353.5
150°	396.2	381.4	379.2	370.7	362.2
152.5°	399.1	385.6	384.1	377.6	371.2
155°	405.4	395.2	394.0	389.3	384.5
157.5°	411.8	404.8	403.7	399.0	394.3
160°	414.7	409.1	408.2	404.6	401.0
162.5°	417.8	413.8	413.1	410.4	407.7
165°	422.3	420.4	419.7	417.3	414.9
167.5°	425.7	424.1	423.8	422.6	421.5
170°	428.6	428.5	428.2	427.0	425.9
172.5°	428.8	428.8	428.7	428.5	428.2
175°	430.6	431.4	431.4	431.4	431.4
177.5°	430.8	431.4	431.4	431.4	431.4
180°	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P935006
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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	15.26	16.22	16.11	17.10	18.21	18.05	19.02	18.91	19.90	21.01
	3H	15.74	16.61	16.61	17.50	18.63	19.40	20.26	20.27	21.15	22.29
	4H	15.94	16.76	16.82	17.65	18.80	19.84	20.66	20.73	21.56	22.70
	6H	16.06	16.82	16.96	17.72	18.88	20.12	20.88	21.02	21.78	22.94
	8H	16.07	16.79	16.97	17.71	18.86	20.20	20.92	21.10	21.84	22.99
	12H	16.04	16.73	16.95	17.64	18.82	20.23	20.92	21.15	21.83	23.02
4H	2H	16.29	17.11	17.19	18.01	19.15	18.48	19.30	19.37	20.19	21.34
	3H	17.33	18.01	18.23	18.94	20.10	19.98	20.67	20.89	21.59	22.75
	4H	17.61	18.23	18.53	19.16	20.34	20.51	21.13	21.42	22.06	23.24
	6H	17.74	18.28	18.67	19.23	20.41	20.87	21.41	21.80	22.36	23.54
	8H	17.75	18.25	18.68	19.19	20.39	20.98	21.48	21.91	22.42	23.62
	12H	17.72	18.18	18.67	19.13	20.34	21.03	21.49	21.98	22.45	23.65
8H	4H	18.07	18.57	19.00	19.51	20.71	20.64	21.14	21.57	22.09	23.29
	6H	18.33	18.75	19.29	19.73	20.93	21.08	21.49	22.03	22.47	23.67
	8H	18.38	18.74	19.35	19.72	20.94	21.22	21.59	22.19	22.56	23.78
	12H	18.37	18.69	19.34	19.66	20.92	21.32	21.64	22.29	22.61	23.88
12H	4H	18.08	18.53	19.03	19.49	20.70	20.61	21.07	21.56	22.02	23.23
	6H	18.39	18.76	19.36	19.74	20.95	21.07	21.44	22.04	22.41	23.63
	8H	18.47	18.79	19.44	19.76	21.02	21.24	21.56	22.21	22.53	23.79