

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: P935310

Luminaire Tested: SQ4-FA-100U-125D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935310
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

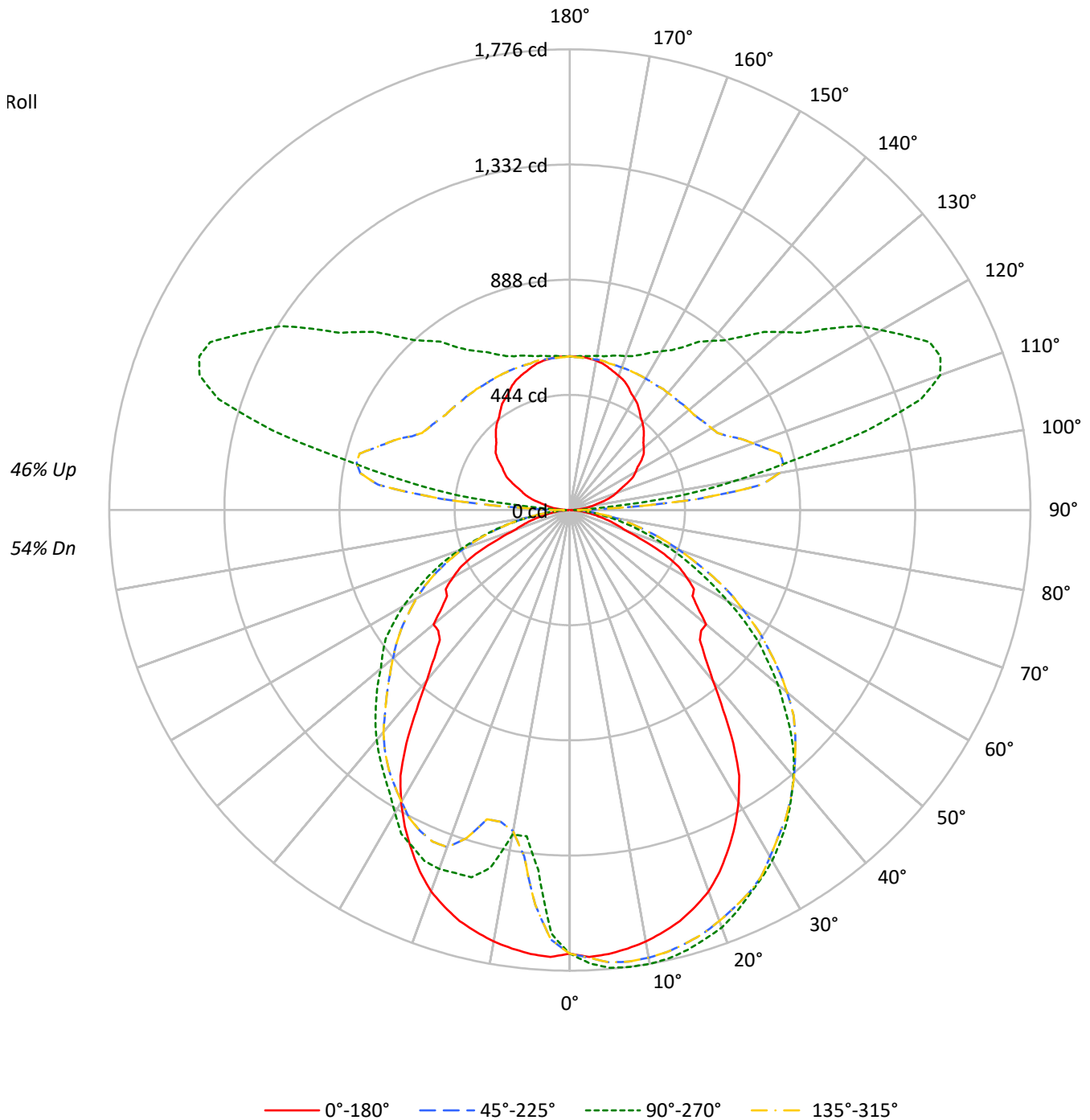
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8277.0 lumens
Efficiency: N/A
Efficacy: 120.3 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: General Diffuse

Input Watts (W): 68.8
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				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	85	85	85	72	72	72	59	59	59	54				54
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45				45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38				38
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32				32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28				28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24				24
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21				21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19				19
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17				17
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15				15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13				13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15868	15868	15868	15868
5°	15969	16019	15969	12595
10°	15845	15779	15845	11281
15°	15655	15437	15655	12889
20°	15310	15032	15310	12917
25°	14621	14441	14621	12643
30°	13738	13950	13738	12043
35°	12230	13331	12230	11382
40°	10172	12600	10172	10883
45°	9072	11746	9072	10309
50°	9615	10726	9615	9733
55°	9022	9628	9022	9400
60°	9266	8177	9266	8610
65°	8361	6761	8361	7556
70°	5750	5387	5750	6333
75°	4988	3982	4988	4769
80°	3936	2632	3936	2866
85°	2145	1394	2145	1185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13931 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	1.9
10°-20°	438.3	5.3
20°-30°	677.5	8.2
30°-40°	808.8	9.8
40°-50°	813.5	9.8
50°-60°	707.9	8.6
60°-70°	501.9	6.1
70°-80°	265.5	3.2
80°-90°	68.4	0.8
90°-100°	288.8	3.5
100°-110°	759.3	9.2
110°-120°	787.3	9.5
120°-130°	631.5	7.6
130°-140°	495.5	6.0
140°-150°	380.3	4.6
150°-160°	273.9	3.3
160°-170°	167.6	2.0
170°-180°	56.6	0.7
0°-30°	1270.2	15.3
0°-40°	2078.9	25.1
0°-60°	3600.4	43.5
0°-90°	4436.2	53.6
90°-120°	1835.4	22.2
90°-150°	3342.8	40.4
90°-180°	3841.0	46.4
0°-180°	8277.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1710	1710	1710	1710	1710	
5°	1718	1772	1718	1393	1718	163
15°	1640	1755	1640	1466	1640	462
25°	1445	1637	1445	1433	1445	663
35°	1098	1461	1098	1247	1098	680
45°	709	1204	709	1056	709	568
55°	578	888	578	867	578	531
65°	401	536	401	599	401	383
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	4	15	4	15	4	4
95°	38	175	38	175	38	42
105°	137	1189	137	1189	137	145
115°	243	1531	243	1531	243	240
125°	338	1219	338	1219	338	300
135°	403	946	403	946	403	312
145°	467	768	467	768	467	293
155°	528	661	528	661	528	243
165°	570	616	570	616	570	161
175°	592	596	592	596	592	56
180°	592	592	592	592	592	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1724.6	1724.6	1734.4	1737.6	1737.6	1732.8	1727.9	1732.8	1747.3	1752.2	1750.5
5°	1718.1	1731.1	1748.9	1752.2	1755.4	1753.8	1750.5	1753.8	1769.9	1773.2	1774.8
7.5°	1705.2	1729.5	1752.2	1757.0	1761.8	1757.0	1755.4	1758.7	1774.8	1778.1	1778.1
10°	1689.1	1723.0	1748.9	1752.2	1757.0	1752.2	1752.2	1758.7	1774.8	1778.1	1779.7
12.5°	1666.4	1713.3	1737.6	1740.8	1747.3	1745.7	1744.0	1750.5	1766.7	1769.9	1769.9
15°	1640.5	1695.6	1718.1	1721.4	1732.8	1729.5	1729.5	1736.0	1753.8	1758.7	1757.0
17.5°	1604.9	1672.9	1698.7	1703.6	1711.7	1710.1	1711.7	1718.1	1734.4	1737.6	1739.2
20°	1564.5	1642.1	1672.9	1677.7	1685.8	1685.8	1685.8	1693.9	1710.1	1716.6	1716.6
22.5°	1509.4	1609.8	1642.1	1645.4	1655.0	1655.0	1658.3	1669.7	1684.2	1685.8	1685.8
25°	1444.7	1574.1	1601.7	1611.4	1621.1	1626.0	1630.8	1637.2	1642.1	1640.5	1642.1
27.5°	1376.8	1528.8	1564.5	1570.9	1583.9	1588.8	1595.2	1596.8	1598.4	1603.3	1600.1
30°	1300.7	1465.7	1519.2	1525.7	1546.7	1549.9	1543.5	1546.7	1554.7	1558.0	1561.2
32.5°	1215.0	1372.0	1472.2	1486.8	1506.3	1496.5	1494.9	1499.8	1512.7	1512.7	1515.9
35°	1098.5	1299.1	1428.6	1441.6	1456.1	1444.7	1451.2	1452.8	1461.0	1465.7	1464.2
37.5°	970.7	1236.0	1383.2	1393.0	1404.3	1389.7	1399.5	1404.3	1410.8	1407.5	1407.5
40°	857.4	1137.4	1329.9	1336.4	1346.0	1334.8	1344.4	1347.7	1350.9	1347.7	1346.0
42.5°	773.3	1028.9	1273.3	1281.3	1274.8	1283.0	1286.2	1292.7	1287.8	1281.3	1281.3
45°	708.6	999.9	1211.7	1221.5	1211.7	1224.7	1229.6	1229.6	1215.0	1211.7	1210.2
47.5°	687.6	941.6	1150.3	1150.3	1145.5	1161.6	1169.7	1158.4	1143.9	1139.0	1139.0
50°	685.9	876.8	1066.1	1059.7	1082.4	1101.8	1093.7	1082.4	1071.0	1053.2	1053.2
52.5°	622.8	797.6	957.8	982.0	1017.7	1028.9	1016.0	1004.7	985.3	977.2	970.7
55°	577.6	715.1	859.1	907.6	944.8	959.3	935.2	923.8	894.7	889.8	886.6
57.5°	567.9	595.4	768.5	830.0	875.2	873.7	859.1	838.0	813.7	809.0	807.3
60°	520.9	430.4	671.4	744.2	791.1	786.3	773.3	753.9	731.2	728.0	724.8
62.5°	472.5	312.2	561.4	643.9	710.2	708.6	697.3	668.1	652.0	643.9	637.5
65°	401.2	262.1	399.6	535.6	631.0	634.2	609.9	588.9	571.1	561.4	559.7
67.5°	305.7	213.6	270.2	446.5	555.0	551.7	520.9	511.3	488.6	483.7	474.1
70°	226.5	142.3	187.7	362.4	480.5	472.5	448.2	436.8	415.8	404.5	398.0
72.5°	187.7	114.9	137.5	281.5	404.5	394.7	373.7	360.8	343.0	333.3	326.8
75°	152.1	121.3	105.2	208.7	328.4	322.0	302.6	289.6	275.0	262.1	263.7
77.5°	111.7	113.3	84.1	153.7	260.5	250.8	239.5	223.2	216.8	203.8	203.8
80°	84.1	89.0	63.1	105.2	187.7	187.7	178.0	166.6	155.4	148.8	148.8
82.5°	56.6	56.6	46.9	66.3	127.8	122.9	116.4	113.3	106.8	103.5	103.5
85°	25.9	32.3	29.2	40.4	69.6	72.8	72.8	69.6	68.0	64.7	66.3
87.5°	8.1	14.5	17.8	22.7	35.6	37.2	38.8	38.8	38.8	40.4	40.4
90°	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2	15.1	15.1
92.5°	15.9	42.9	70.0	76.8	107.9	149.4	170.2	149.1	107.1	75.5	72.6
95°	38.1	87.7	137.2	149.5	265.5	420.1	497.4	443.9	336.8	256.5	247.4
97.5°	66.0	109.7	153.3	164.2	357.6	615.5	744.3	710.5	642.8	592.1	574.7
100°	87.5	127.1	166.6	176.6	391.2	677.3	820.3	822.8	827.7	831.4	810.8
102.5°	105.7	142.7	179.6	188.9	406.6	696.7	841.9	885.0	971.2	1035.8	1018.1
105°	136.8	168.1	199.3	207.2	418.0	698.9	839.5	936.1	1129.4	1274.4	1265.0
107.5°	168.6	197.8	227.0	234.2	420.1	667.8	791.7	926.6	1196.2	1398.5	1400.8
110°	190.1	216.4	242.7	249.3	416.8	640.2	751.9	902.7	1204.2	1430.3	1440.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.2	236.2	261.3	267.6	417.0	616.1	715.8	870.1	1178.6	1410.0	1425.2
115°	242.9	266.1	289.2	295.0	420.8	588.6	672.5	821.1	1118.3	1341.3	1362.3
117.5°	274.4	295.4	316.4	321.7	428.7	571.3	642.6	776.8	1045.0	1246.2	1269.6
120°	292.6	312.4	332.2	337.2	435.0	565.5	630.7	753.2	998.4	1182.2	1204.9
122.5°	310.6	330.6	350.6	355.5	444.2	562.4	621.5	731.8	952.6	1118.1	1140.5
125°	338.0	356.2	374.4	379.0	456.5	559.8	611.6	705.3	892.8	1033.4	1054.1
127.5°	360.2	378.6	397.0	401.6	468.8	558.4	603.2	683.7	844.7	965.5	982.9
130°	372.2	392.0	411.7	416.7	477.8	559.4	600.1	671.8	815.1	922.5	938.6
132.5°	384.5	404.3	424.1	429.1	485.1	559.8	597.2	661.4	789.7	885.9	900.4
135°	402.9	420.8	438.9	443.4	493.1	559.4	592.5	646.3	753.6	834.2	846.6
137.5°	421.5	439.4	457.2	461.7	505.0	562.8	591.7	637.1	727.9	796.1	806.2
140°	437.0	453.4	469.9	474.0	512.3	563.4	588.9	628.1	706.6	765.5	774.9
142.5°	448.9	464.1	479.3	483.2	518.4	565.4	588.9	623.3	692.2	744.0	752.2
145°	467.2	480.5	493.7	497.0	526.4	565.5	585.0	613.2	669.5	711.7	718.0
147.5°	485.6	498.5	511.3	514.5	538.0	569.3	585.0	607.2	651.5	684.8	689.9
150°	497.4	509.1	520.7	523.7	544.2	571.4	585.0	603.7	641.1	669.2	673.3
152.5°	509.7	518.5	527.4	529.6	548.1	572.6	585.0	600.9	632.9	656.9	660.0
155°	528.1	534.6	541.2	542.8	556.9	575.6	585.0	597.7	623.1	642.1	644.2
157.5°	541.6	548.0	554.3	555.9	565.6	578.5	585.0	594.8	614.6	629.4	630.9
160°	550.8	555.7	560.6	561.8	569.6	579.8	585.0	593.5	610.4	623.1	624.0
162.5°	559.8	563.6	567.3	568.2	573.8	581.2	585.0	592.1	606.4	617.1	617.9
165°	569.8	573.1	576.5	577.3	579.9	583.3	585.0	590.1	600.4	608.0	608.9
167.5°	579.0	580.6	582.2	582.6	584.7	587.5	588.9	592.2	598.9	604.0	604.4
170°	585.0	586.5	588.1	588.5	588.6	588.8	588.9	592.2	598.9	604.0	604.0
172.5°	588.1	588.5	588.8	588.9	588.9	588.9	588.9	591.6	596.8	600.8	600.6
175°	592.5	592.5	592.5	592.5	591.3	589.7	588.9	590.6	594.0	596.4	596.4
177.5°	592.5	592.5	592.5	592.5	591.6	590.3	589.7	591.0	593.7	595.7	595.3
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1753.8	1748.9	1753.8	1750.5	1752.2	1747.3	1732.8	1727.9	1732.8	1737.6	1737.6
5°	1774.8	1771.6	1774.8	1774.8	1773.2	1769.9	1753.8	1750.5	1753.8	1755.4	1752.2
7.5°	1781.2	1776.4	1781.2	1778.1	1778.1	1774.8	1758.7	1755.4	1757.0	1761.8	1757.0
10°	1781.2	1776.4	1781.2	1779.7	1778.1	1774.8	1758.7	1752.2	1752.2	1757.0	1752.2
12.5°	1773.2	1769.9	1773.2	1769.9	1769.9	1766.7	1750.5	1744.0	1745.7	1747.3	1740.8
15°	1760.2	1755.4	1760.2	1757.0	1758.7	1753.8	1736.0	1729.5	1729.5	1732.8	1721.4
17.5°	1740.8	1734.4	1740.8	1739.2	1737.6	1734.4	1718.1	1711.7	1710.1	1711.7	1703.6
20°	1718.1	1713.3	1718.1	1716.6	1716.6	1710.1	1693.9	1685.8	1685.8	1685.8	1677.7
22.5°	1682.6	1677.7	1682.6	1685.8	1685.8	1684.2	1669.7	1658.3	1655.0	1655.0	1645.4
25°	1642.1	1637.2	1642.1	1642.1	1640.5	1642.1	1637.2	1630.8	1626.0	1621.1	1611.4
27.5°	1603.3	1600.1	1603.3	1600.1	1603.3	1598.4	1596.8	1595.2	1588.8	1583.9	1570.9
30°	1564.5	1561.2	1564.5	1561.2	1558.0	1554.7	1546.7	1543.5	1549.9	1546.7	1525.7
32.5°	1515.9	1512.7	1515.9	1515.9	1512.7	1512.7	1499.8	1494.9	1496.5	1506.3	1486.8
35°	1465.7	1461.0	1465.7	1464.2	1465.7	1461.0	1452.8	1451.2	1444.7	1456.1	1441.6
37.5°	1407.5	1402.6	1407.5	1407.5	1407.5	1410.8	1404.3	1399.5	1389.7	1404.3	1393.0
40°	1347.7	1341.2	1347.7	1346.0	1347.7	1350.9	1347.7	1344.4	1334.8	1346.0	1336.4
42.5°	1279.7	1278.1	1279.7	1281.3	1281.3	1287.8	1292.7	1286.2	1283.0	1274.8	1281.3
45°	1207.0	1203.7	1207.0	1210.2	1211.7	1215.0	1229.6	1229.6	1224.7	1211.7	1221.5
47.5°	1129.2	1121.2	1129.2	1139.0	1139.0	1143.9	1158.4	1169.7	1161.6	1145.5	1150.3
50°	1046.7	1048.3	1046.7	1053.2	1053.2	1071.0	1082.4	1093.7	1101.8	1082.4	1059.7
52.5°	965.8	964.2	965.8	970.7	977.2	985.3	1004.7	1016.0	1028.9	1017.7	982.0
55°	885.0	888.2	885.0	886.6	889.8	894.7	923.8	935.2	959.3	944.8	907.6
57.5°	804.1	799.2	804.1	807.3	809.0	813.7	838.0	859.1	873.7	875.2	830.0
60°	710.2	703.8	710.2	724.8	728.0	731.2	753.9	773.3	786.3	791.1	744.2
62.5°	627.7	616.4	627.7	637.5	643.9	652.0	668.1	697.3	708.6	710.2	643.9
65°	540.3	535.6	540.3	559.7	561.4	571.1	588.9	609.9	634.2	631.0	535.6
67.5°	461.1	461.1	461.1	474.1	483.7	488.6	511.3	520.9	551.7	555.0	446.5
70°	388.3	386.7	388.3	398.0	404.5	415.8	436.8	448.2	472.5	480.5	362.4
72.5°	318.7	317.1	318.7	326.8	333.3	343.0	360.8	373.7	394.7	404.5	281.5
75°	257.3	254.0	257.3	263.7	262.1	275.0	289.6	302.6	322.0	328.4	208.7
77.5°	197.4	197.4	197.4	203.8	203.8	216.8	223.2	239.5	250.8	260.5	153.7
80°	147.2	145.6	147.2	148.8	148.8	155.4	166.6	178.0	187.7	187.7	105.2
82.5°	103.5	100.3	103.5	103.5	103.5	106.8	113.3	116.4	122.9	127.8	66.3
85°	64.7	64.7	64.7	66.3	64.7	68.0	69.6	72.8	72.8	69.6	40.4
87.5°	42.1	40.4	42.1	40.4	40.4	38.8	38.8	38.8	37.2	35.6	22.7
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0	17.5	11.1
92.5°	60.5	48.5	60.5	72.6	75.5	107.1	149.1	170.2	149.4	107.9	76.8
95°	211.0	174.6	211.0	247.4	256.5	336.8	443.9	497.4	420.1	265.5	149.5
97.5°	505.4	436.2	505.4	574.7	592.1	642.8	710.5	744.3	615.5	357.6	164.2
100°	728.3	645.8	728.3	810.8	831.4	827.7	822.8	820.3	677.3	391.2	176.6
102.5°	947.5	876.8	947.5	1018.1	1035.8	971.2	885.0	841.9	696.7	406.6	188.9
105°	1226.9	1189.0	1226.9	1265.0	1274.4	1129.4	936.1	839.5	698.9	418.0	207.2
107.5°	1410.0	1419.2	1410.0	1400.8	1398.5	1196.2	926.6	791.7	667.8	420.1	234.2
110°	1479.8	1519.4	1479.8	1440.2	1430.3	1204.2	902.7	751.9	640.2	416.8	249.3



TEST NUMBER: P935310

CATALOG NUMBER: SQ4-FA-100U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1486.0	1546.8	1486.0	1425.2	1410.0	1178.6	870.1	715.8	616.1	417.0	267.6
115°	1446.6	1530.9	1446.6	1362.3	1341.3	1118.3	821.1	672.5	588.6	420.8	295.0
117.5°	1363.1	1456.6	1363.1	1269.6	1246.2	1045.0	776.8	642.6	571.3	428.7	321.7
120°	1295.8	1386.6	1295.8	1204.9	1182.2	998.4	753.2	630.7	565.5	435.0	337.2
122.5°	1230.2	1319.8	1230.2	1140.5	1118.1	952.6	731.8	621.5	562.4	444.2	355.5
125°	1136.6	1219.2	1136.6	1054.1	1033.4	892.8	705.3	611.6	559.8	456.5	379.0
127.5°	1052.6	1122.2	1052.6	982.9	965.5	844.7	683.7	603.2	558.4	468.8	401.6
130°	1002.9	1067.3	1002.9	938.6	922.5	815.1	671.8	600.1	559.4	477.8	416.7
132.5°	957.9	1015.6	957.9	900.4	885.9	789.7	661.4	597.2	559.8	485.1	429.1
135°	896.2	946.0	896.2	846.6	834.2	753.6	646.3	592.5	559.4	493.1	443.4
137.5°	846.9	887.6	846.9	806.2	796.1	727.9	637.1	591.7	562.8	505.0	461.7
140°	813.0	850.9	813.0	774.9	765.5	706.6	628.1	588.9	563.4	512.3	474.0
142.5°	784.9	817.6	784.9	752.2	744.0	692.2	623.3	588.9	565.4	518.4	483.2
145°	742.7	767.5	742.7	718.0	711.7	669.5	613.2	585.0	565.5	526.4	497.0
147.5°	710.4	730.9	710.4	689.9	684.8	651.5	607.2	585.0	569.3	538.0	514.5
150°	689.9	706.6	689.9	673.3	669.2	641.1	603.7	585.0	571.4	544.2	523.7
152.5°	672.5	685.2	672.5	660.0	656.9	632.9	600.9	585.0	572.6	548.1	529.6
155°	652.6	660.9	652.6	644.2	642.1	623.1	597.7	585.0	575.6	556.9	542.8
157.5°	636.8	642.6	636.8	630.9	629.4	614.6	594.8	585.0	578.5	565.6	555.9
160°	627.3	630.7	627.3	624.0	623.1	610.4	593.5	585.0	579.8	569.6	561.8
162.5°	621.1	624.3	621.1	617.9	617.1	606.4	592.1	585.0	581.2	573.8	568.2
165°	612.2	615.6	612.2	608.9	608.0	600.4	590.1	585.0	583.3	579.9	577.3
167.5°	605.7	607.2	605.7	604.4	604.0	598.9	592.2	588.9	587.5	584.7	582.6
170°	604.0	604.0	604.0	604.0	604.0	598.9	592.2	588.9	588.8	588.6	588.5
172.5°	599.3	598.1	599.3	600.6	600.8	596.8	591.6	588.9	588.9	588.9	588.9
175°	596.4	596.4	596.4	596.4	596.4	594.0	590.6	588.9	589.7	591.3	592.5
177.5°	594.0	592.5	594.0	595.3	595.7	593.7	591.0	589.7	590.3	591.6	592.5
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935310
 CATALOG NUMBER: SQ4-FA-100U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1734.4	1724.6	1724.6	1708.5	1702.0	1697.1	1689.1	1664.8	1658.3	1651.9	1661.5
5°	1748.9	1731.1	1718.1	1689.1	1664.8	1655.0	1624.3	1566.1	1527.3	1498.1	1482.0
7.5°	1752.2	1729.5	1705.2	1659.9	1601.7	1575.8	1482.0	1375.2	1346.0	1320.1	1304.0
10°	1748.9	1723.0	1689.1	1621.1	1483.6	1438.3	1344.4	1274.8	1257.0	1252.3	1257.0
12.5°	1737.6	1713.3	1666.4	1553.1	1360.6	1329.9	1274.8	1234.4	1231.2	1239.3	1283.0
15°	1718.1	1695.6	1640.5	1462.6	1292.7	1270.0	1231.2	1216.6	1234.4	1291.1	1422.1
17.5°	1698.7	1672.9	1604.9	1373.6	1240.9	1224.7	1197.2	1226.4	1326.6	1402.6	1446.3
20°	1672.9	1642.1	1564.5	1308.9	1203.7	1189.2	1176.2	1307.2	1383.2	1410.8	1435.1
22.5°	1642.1	1609.8	1509.4	1263.5	1164.9	1153.5	1161.6	1352.5	1383.2	1402.6	1423.7
25°	1601.7	1574.1	1444.7	1228.0	1134.1	1121.2	1151.9	1347.7	1365.5	1370.3	1412.4
27.5°	1564.5	1528.8	1376.8	1195.6	1096.9	1092.0	1160.0	1326.6	1339.5	1344.4	1389.7
30°	1519.2	1465.7	1300.7	1161.6	1058.1	1056.5	1161.6	1300.7	1297.5	1310.5	1355.8
32.5°	1472.2	1372.0	1215.0	1119.6	1020.9	1019.3	1150.3	1261.9	1258.7	1276.5	1310.5
35°	1428.6	1299.1	1098.5	1071.0	974.0	975.6	1122.8	1216.6	1218.2	1234.4	1255.4
37.5°	1383.2	1236.0	970.7	1017.7	928.7	928.7	1085.5	1174.5	1171.3	1176.2	1205.3
40°	1329.9	1137.4	857.4	948.1	886.6	881.7	1040.3	1129.2	1117.9	1116.3	1156.8
42.5°	1273.3	1028.9	773.3	855.8	838.0	831.6	985.3	1074.3	1053.2	1058.1	1109.8
45°	1211.7	999.9	708.6	723.2	787.9	783.1	925.4	1011.2	996.6	1009.5	1063.0
47.5°	1150.3	941.6	687.6	600.3	734.5	732.9	859.1	949.7	941.6	954.6	1011.2
50°	1066.1	876.8	685.9	514.5	674.6	681.2	779.8	889.8	889.8	901.1	961.0
52.5°	957.8	797.6	622.8	466.0	605.1	624.5	710.2	838.0	841.3	852.7	906.0
55°	859.1	715.1	577.6	428.8	522.5	564.6	642.3	784.7	791.1	802.5	851.0
57.5°	768.5	595.4	567.9	385.1	446.5	487.0	582.4	732.9	736.1	745.9	792.7
60°	671.4	430.4	520.9	338.1	380.2	410.9	527.4	671.4	682.8	689.2	729.6
62.5°	561.4	312.2	472.5	305.7	347.8	354.3	482.1	613.2	627.7	632.6	656.9
65°	399.6	262.1	401.2	278.3	313.9	315.5	433.5	553.3	566.2	574.4	592.1
67.5°	270.2	213.6	305.7	252.4	287.9	289.6	386.7	483.7	501.5	508.0	519.3
70°	187.7	142.3	226.5	224.9	258.9	262.1	336.5	420.6	436.8	441.7	448.2
72.5°	137.5	114.9	187.7	202.2	228.1	231.4	284.7	349.4	365.7	370.4	373.7
75°	105.2	121.3	152.1	176.4	194.2	195.8	233.0	284.7	296.1	299.3	300.9
77.5°	84.1	113.3	111.7	142.3	158.5	155.4	182.8	220.1	229.7	229.7	229.7
80°	63.1	89.0	84.1	101.9	116.4	113.3	131.1	157.0	160.1	163.4	161.8
82.5°	46.9	56.6	56.6	64.7	77.6	74.4	87.4	101.9	101.9	101.9	105.2
85°	29.2	32.3	25.9	33.9	43.7	42.1	48.6	55.0	56.6	56.6	53.3
87.5°	17.8	14.5	8.1	12.9	19.4	19.4	22.7	24.3	22.7	22.7	22.7
90°	10.3	7.2	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2
92.5°	70.0	42.9	15.9	42.9	70.0	76.8	107.9	149.4	170.2	149.1	107.1
95°	137.2	87.7	38.1	87.7	137.2	149.5	265.5	420.1	497.4	443.9	336.8
97.5°	153.3	109.7	66.0	109.7	153.3	164.2	357.6	615.5	744.3	710.5	642.8
100°	166.6	127.1	87.5	127.1	166.6	176.6	391.2	677.3	820.3	822.8	827.7
102.5°	179.6	142.7	105.7	142.7	179.6	188.9	406.6	696.7	841.9	885.0	971.2
105°	199.3	168.1	136.8	168.1	199.3	207.2	418.0	698.9	839.5	936.1	1129.4
107.5°	227.0	197.8	168.6	197.8	227.0	234.2	420.1	667.8	791.7	926.6	1196.2
110°	242.7	216.4	190.1	216.4	242.7	249.3	416.8	640.2	751.9	902.7	1204.2



TEST NUMBER: P935310
 CATALOG NUMBER: SQ4-FA-100U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.3	236.2	211.2	236.2	261.3	267.6	417.0	616.1	715.8	870.1	1178.6
115°	289.2	266.1	242.9	266.1	289.2	295.0	420.8	588.6	672.5	821.1	1118.3
117.5°	316.4	295.4	274.4	295.4	316.4	321.7	428.7	571.3	642.6	776.8	1045.0
120°	332.2	312.4	292.6	312.4	332.2	337.2	435.0	565.5	630.7	753.2	998.4
122.5°	350.6	330.6	310.6	330.6	350.6	355.5	444.2	562.4	621.5	731.8	952.6
125°	374.4	356.2	338.0	356.2	374.4	379.0	456.5	559.8	611.6	705.3	892.8
127.5°	397.0	378.6	360.2	378.6	397.0	401.6	468.8	558.4	603.2	683.7	844.7
130°	411.7	392.0	372.2	392.0	411.7	416.7	477.8	559.4	600.1	671.8	815.1
132.5°	424.1	404.3	384.5	404.3	424.1	429.1	485.1	559.8	597.2	661.4	789.7
135°	438.9	420.8	402.9	420.8	438.9	443.4	493.1	559.4	592.5	646.3	753.6
137.5°	457.2	439.4	421.5	439.4	457.2	461.7	505.0	562.8	591.7	637.1	727.9
140°	469.9	453.4	437.0	453.4	469.9	474.0	512.3	563.4	588.9	628.1	706.6
142.5°	479.3	464.1	448.9	464.1	479.3	483.2	518.4	565.4	588.9	623.3	692.2
145°	493.7	480.5	467.2	480.5	493.7	497.0	526.4	565.5	585.0	613.2	669.5
147.5°	511.3	498.5	485.6	498.5	511.3	514.5	538.0	569.3	585.0	607.2	651.5
150°	520.7	509.1	497.4	509.1	520.7	523.7	544.2	571.4	585.0	603.7	641.1
152.5°	527.4	518.5	509.7	518.5	527.4	529.6	548.1	572.6	585.0	600.9	632.9
155°	541.2	534.6	528.1	534.6	541.2	542.8	556.9	575.6	585.0	597.7	623.1
157.5°	554.3	548.0	541.6	548.0	554.3	555.9	565.6	578.5	585.0	594.8	614.6
160°	560.6	555.7	550.8	555.7	560.6	561.8	569.6	579.8	585.0	593.5	610.4
162.5°	567.3	563.6	559.8	563.6	567.3	568.2	573.8	581.2	585.0	592.1	606.4
165°	576.5	573.1	569.8	573.1	576.5	577.3	579.9	583.3	585.0	590.1	600.4
167.5°	582.2	580.6	579.0	580.6	582.2	582.6	584.7	587.5	588.9	592.2	598.9
170°	588.1	586.5	585.0	586.5	588.1	588.5	588.6	588.8	588.9	592.2	598.9
172.5°	588.8	588.5	588.1	588.5	588.8	588.9	588.9	588.9	588.9	591.6	596.8
175°	592.5	592.5	592.5	592.5	592.5	592.5	591.3	589.7	588.9	590.6	594.0
177.5°	592.5	592.5	592.5	592.5	592.5	592.5	591.6	590.3	589.7	591.0	593.7
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935310
 CATALOG NUMBER: SQ4-FA-100U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1650.2	1645.4	1651.9	1634.0	1651.9	1645.4	1650.2	1661.5	1651.9	1658.3	1664.8
5°	1448.0	1439.9	1414.0	1393.0	1414.0	1439.9	1448.0	1482.0	1498.1	1527.3	1566.1
7.5°	1294.3	1287.8	1281.3	1268.4	1281.3	1287.8	1294.3	1304.0	1320.1	1346.0	1375.2
10°	1260.3	1261.9	1271.7	1270.0	1271.7	1261.9	1260.3	1257.0	1252.3	1257.0	1274.8
12.5°	1347.7	1362.2	1415.6	1412.4	1415.6	1362.2	1347.7	1283.0	1239.3	1231.2	1234.4
15°	1448.0	1452.8	1464.2	1465.7	1464.2	1452.8	1448.0	1422.1	1291.1	1234.4	1216.6
17.5°	1457.7	1459.3	1467.4	1467.4	1467.4	1459.3	1457.7	1446.3	1402.6	1326.6	1226.4
20°	1449.6	1452.8	1469.0	1472.2	1469.0	1452.8	1449.6	1435.1	1410.8	1383.2	1307.2
22.5°	1446.3	1452.8	1465.7	1464.2	1465.7	1452.8	1446.3	1423.7	1402.6	1383.2	1352.5
25°	1430.2	1430.2	1431.8	1433.4	1431.8	1430.2	1430.2	1412.4	1370.3	1365.5	1347.7
27.5°	1396.2	1399.5	1409.1	1407.5	1409.1	1399.5	1396.2	1389.7	1344.4	1339.5	1326.6
30°	1365.5	1362.2	1354.2	1347.7	1354.2	1362.2	1365.5	1355.8	1310.5	1297.5	1300.7
32.5°	1313.7	1305.6	1297.5	1292.7	1297.5	1305.6	1313.7	1310.5	1276.5	1258.7	1261.9
35°	1252.3	1253.8	1252.3	1247.4	1252.3	1253.8	1252.3	1255.4	1234.4	1218.2	1216.6
37.5°	1208.6	1211.7	1210.2	1203.7	1210.2	1211.7	1208.6	1205.3	1176.2	1171.3	1174.5
40°	1163.3	1164.9	1163.3	1158.4	1163.3	1164.9	1163.3	1156.8	1116.3	1117.9	1129.2
42.5°	1119.6	1117.9	1113.1	1109.8	1113.1	1117.9	1119.6	1109.8	1058.1	1053.2	1074.3
45°	1069.4	1071.0	1061.4	1056.5	1061.4	1071.0	1069.4	1063.0	1009.5	996.6	1011.2
47.5°	1019.3	1019.3	1011.2	1006.3	1011.2	1019.3	1019.3	1011.2	954.6	941.6	949.7
50°	965.8	964.2	952.9	951.3	952.9	964.2	965.8	961.0	901.1	889.8	889.8
52.5°	904.4	904.4	906.0	909.3	906.0	904.4	904.4	906.0	852.7	841.3	838.0
55°	851.0	852.7	863.9	867.2	863.9	852.7	851.0	851.0	802.5	791.1	784.7
57.5°	796.0	796.0	804.1	804.1	804.1	796.0	796.0	792.7	745.9	736.1	732.9
60°	732.9	736.1	742.6	741.0	742.6	736.1	732.9	729.6	689.2	682.8	671.4
62.5°	666.5	669.8	671.4	668.1	671.4	669.8	666.5	656.9	632.6	627.7	613.2
65°	597.0	600.3	601.8	598.6	601.8	600.3	597.0	592.1	574.4	566.2	553.3
67.5°	525.8	524.2	522.5	529.1	522.5	524.2	525.8	519.3	508.0	501.5	483.7
70°	453.0	453.0	451.4	454.6	451.4	453.0	453.0	448.2	441.7	436.8	420.6
72.5°	375.3	373.7	380.2	375.3	380.2	373.7	375.3	373.7	370.4	365.7	349.4
75°	299.3	302.6	299.3	304.2	299.3	302.6	299.3	300.9	299.3	296.1	284.7
77.5°	228.1	231.4	228.1	228.1	228.1	231.4	228.1	229.7	229.7	229.7	220.1
80°	161.8	160.1	160.1	158.5	160.1	160.1	161.8	161.8	163.4	160.1	157.0
82.5°	103.5	101.9	101.9	105.2	101.9	101.9	103.5	105.2	101.9	101.9	101.9
85°	56.6	58.2	55.0	55.0	55.0	58.2	56.6	53.3	56.6	56.6	55.0
87.5°	21.0	19.4	19.4	19.4	19.4	19.4	21.0	22.7	22.7	22.7	24.3
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0
92.5°	75.5	72.6	60.5	48.5	60.5	72.6	75.5	107.1	149.1	170.2	149.4
95°	256.5	247.4	211.0	174.6	211.0	247.4	256.5	336.8	443.9	497.4	420.1
97.5°	592.1	574.7	505.4	436.2	505.4	574.7	592.1	642.8	710.5	744.3	615.5
100°	831.4	810.8	728.3	645.8	728.3	810.8	831.4	827.7	822.8	820.3	677.3
102.5°	1035.8	1018.1	947.5	876.8	947.5	1018.1	1035.8	971.2	885.0	841.9	696.7
105°	1274.4	1265.0	1226.9	1189.0	1226.9	1265.0	1274.4	1129.4	936.1	839.5	698.9
107.5°	1398.5	1400.8	1410.0	1419.2	1410.0	1400.8	1398.5	1196.2	926.6	791.7	667.8
110°	1430.3	1440.2	1479.8	1519.4	1479.8	1440.2	1430.3	1204.2	902.7	751.9	640.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1410.0	1425.2	1486.0	1546.8	1486.0	1425.2	1410.0	1178.6	870.1	715.8	616.1
115°	1341.3	1362.3	1446.6	1530.9	1446.6	1362.3	1341.3	1118.3	821.1	672.5	588.6
117.5°	1246.2	1269.6	1363.1	1456.6	1363.1	1269.6	1246.2	1045.0	776.8	642.6	571.3
120°	1182.2	1204.9	1295.8	1386.6	1295.8	1204.9	1182.2	998.4	753.2	630.7	565.5
122.5°	1118.1	1140.5	1230.2	1319.8	1230.2	1140.5	1118.1	952.6	731.8	621.5	562.4
125°	1033.4	1054.1	1136.6	1219.2	1136.6	1054.1	1033.4	892.8	705.3	611.6	559.8
127.5°	965.5	982.9	1052.6	1122.2	1052.6	982.9	965.5	844.7	683.7	603.2	558.4
130°	922.5	938.6	1002.9	1067.3	1002.9	938.6	922.5	815.1	671.8	600.1	559.4
132.5°	885.9	900.4	957.9	1015.6	957.9	900.4	885.9	789.7	661.4	597.2	559.8
135°	834.2	846.6	896.2	946.0	896.2	846.6	834.2	753.6	646.3	592.5	559.4
137.5°	796.1	806.2	846.9	887.6	846.9	806.2	796.1	727.9	637.1	591.7	562.8
140°	765.5	774.9	813.0	850.9	813.0	774.9	765.5	706.6	628.1	588.9	563.4
142.5°	744.0	752.2	784.9	817.6	784.9	752.2	744.0	692.2	623.3	588.9	565.4
145°	711.7	718.0	742.7	767.5	742.7	718.0	711.7	669.5	613.2	585.0	565.5
147.5°	684.8	689.9	710.4	730.9	710.4	689.9	684.8	651.5	607.2	585.0	569.3
150°	669.2	673.3	689.9	706.6	689.9	673.3	669.2	641.1	603.7	585.0	571.4
152.5°	656.9	660.0	672.5	685.2	672.5	660.0	656.9	632.9	600.9	585.0	572.6
155°	642.1	644.2	652.6	660.9	652.6	644.2	642.1	623.1	597.7	585.0	575.6
157.5°	629.4	630.9	636.8	642.6	636.8	630.9	629.4	614.6	594.8	585.0	578.5
160°	623.1	624.0	627.3	630.7	627.3	624.0	623.1	610.4	593.5	585.0	579.8
162.5°	617.1	617.9	621.1	624.3	621.1	617.9	617.1	606.4	592.1	585.0	581.2
165°	608.0	608.9	612.2	615.6	612.2	608.9	608.0	600.4	590.1	585.0	583.3
167.5°	604.0	604.4	605.7	607.2	605.7	604.4	604.0	598.9	592.2	588.9	587.5
170°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	598.9	592.2	588.9	588.8
172.5°	600.8	600.6	599.3	598.1	599.3	600.6	600.8	596.8	591.6	588.9	588.9
175°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	594.0	590.6	588.9	589.7
177.5°	595.7	595.3	594.0	592.5	594.0	595.3	595.7	593.7	591.0	589.7	590.3
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935310

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1689.1	1697.1	1702.0	1708.5	1724.6
5°	1624.3	1655.0	1664.8	1689.1	1718.1
7.5°	1482.0	1575.8	1601.7	1659.9	1705.2
10°	1344.4	1438.3	1483.6	1621.1	1689.1
12.5°	1274.8	1329.9	1360.6	1553.1	1666.4
15°	1231.2	1270.0	1292.7	1462.6	1640.5
17.5°	1197.2	1224.7	1240.9	1373.6	1604.9
20°	1176.2	1189.2	1203.7	1308.9	1564.5
22.5°	1161.6	1153.5	1164.9	1263.5	1509.4
25°	1151.9	1121.2	1134.1	1228.0	1444.7
27.5°	1160.0	1092.0	1096.9	1195.6	1376.8
30°	1161.6	1056.5	1058.1	1161.6	1300.7
32.5°	1150.3	1019.3	1020.9	1119.6	1215.0
35°	1122.8	975.6	974.0	1071.0	1098.5
37.5°	1085.5	928.7	928.7	1017.7	970.7
40°	1040.3	881.7	886.6	948.1	857.4
42.5°	985.3	831.6	838.0	855.8	773.3
45°	925.4	783.1	787.9	723.2	708.6
47.5°	859.1	732.9	734.5	600.3	687.6
50°	779.8	681.2	674.6	514.5	685.9
52.5°	710.2	624.5	605.1	466.0	622.8
55°	642.3	564.6	522.5	428.8	577.6
57.5°	582.4	487.0	446.5	385.1	567.9
60°	527.4	410.9	380.2	338.1	520.9
62.5°	482.1	354.3	347.8	305.7	472.5
65°	433.5	315.5	313.9	278.3	401.2
67.5°	386.7	289.6	287.9	252.4	305.7
70°	336.5	262.1	258.9	224.9	226.5
72.5°	284.7	231.4	228.1	202.2	187.7
75°	233.0	195.8	194.2	176.4	152.1
77.5°	182.8	155.4	158.5	142.3	111.7
80°	131.1	113.3	116.4	101.9	84.1
82.5°	87.4	74.4	77.6	64.7	56.6
85°	48.6	42.1	43.7	33.9	25.9
87.5°	22.7	19.4	19.4	12.9	8.1
90°	17.5	11.1	10.3	7.2	4.0
92.5°	107.9	76.8	70.0	42.9	15.9
95°	265.5	149.5	137.2	87.7	38.1
97.5°	357.6	164.2	153.3	109.7	66.0
100°	391.2	176.6	166.6	127.1	87.5
102.5°	406.6	188.9	179.6	142.7	105.7
105°	418.0	207.2	199.3	168.1	136.8
107.5°	420.1	234.2	227.0	197.8	168.6
110°	416.8	249.3	242.7	216.4	190.1



TEST NUMBER: P935310

CATALOG NUMBER: SQ4-FA-100U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	417.0	267.6	261.3	236.2	211.2
115°	420.8	295.0	289.2	266.1	242.9
117.5°	428.7	321.7	316.4	295.4	274.4
120°	435.0	337.2	332.2	312.4	292.6
122.5°	444.2	355.5	350.6	330.6	310.6
125°	456.5	379.0	374.4	356.2	338.0
127.5°	468.8	401.6	397.0	378.6	360.2
130°	477.8	416.7	411.7	392.0	372.2
132.5°	485.1	429.1	424.1	404.3	384.5
135°	493.1	443.4	438.9	420.8	402.9
137.5°	505.0	461.7	457.2	439.4	421.5
140°	512.3	474.0	469.9	453.4	437.0
142.5°	518.4	483.2	479.3	464.1	448.9
145°	526.4	497.0	493.7	480.5	467.2
147.5°	538.0	514.5	511.3	498.5	485.6
150°	544.2	523.7	520.7	509.1	497.4
152.5°	548.1	529.6	527.4	518.5	509.7
155°	556.9	542.8	541.2	534.6	528.1
157.5°	565.6	555.9	554.3	548.0	541.6
160°	569.6	561.8	560.6	555.7	550.8
162.5°	573.8	568.2	567.3	563.6	559.8
165°	579.9	577.3	576.5	573.1	569.8
167.5°	584.7	582.6	582.2	580.6	579.0
170°	588.6	588.5	588.1	586.5	585.0
172.5°	588.9	588.9	588.8	588.5	588.1
175°	591.3	592.5	592.5	592.5	592.5
177.5°	591.6	592.5	592.5	592.5	592.5
180°	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935310
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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	14.72	15.62	15.65	16.56	17.78	17.52	18.42	18.45	19.36	20.58
	3H	15.20	16.01	16.14	16.96	18.20	18.86	19.66	19.80	20.61	21.86
	4H	15.40	16.16	16.35	17.11	18.36	19.30	20.06	20.25	21.01	22.27
	6H	15.52	16.22	16.48	17.18	18.44	19.58	20.28	20.54	21.24	22.50
	8H	15.52	16.19	16.49	17.17	18.43	19.65	20.31	20.62	21.29	22.56
	12H	15.49	16.13	16.47	17.10	18.39	19.68	20.32	20.66	21.29	22.58
4H	2H	15.75	16.51	16.71	17.47	18.72	17.94	18.69	18.89	19.65	20.90
	3H	16.78	17.41	17.75	18.40	19.67	19.44	20.07	20.40	21.06	22.32
	4H	17.06	17.64	18.04	18.62	19.91	19.96	20.54	20.94	21.52	22.81
	6H	17.19	17.69	18.18	18.69	19.98	20.32	20.81	21.31	21.82	23.11
	8H	17.19	17.66	18.19	18.66	19.96	20.42	20.88	21.41	21.88	23.19
	12H	17.16	17.58	18.17	18.60	19.90	20.47	20.89	21.48	21.91	23.22
8H	4H	17.51	17.98	18.50	18.97	20.28	20.09	20.55	21.08	21.55	22.85
	6H	17.77	18.16	18.79	19.20	20.50	20.52	20.90	21.53	21.94	23.24
	8H	17.82	18.16	18.84	19.18	20.50	20.66	21.00	21.69	22.03	23.35
	12H	17.80	18.10	18.83	19.12	20.49	20.76	21.06	21.79	22.08	23.44
12H	4H	17.52	17.94	18.53	18.95	20.26	20.05	20.47	21.06	21.49	22.79
	6H	17.83	18.17	18.86	19.20	20.52	20.51	20.85	21.54	21.88	23.20
	8H	17.90	18.20	18.93	19.22	20.59	20.67	20.97	21.70	21.99	23.36