

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: P934598

Luminaire Tested: SQ4-FA-050U-125D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934598
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-B35-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

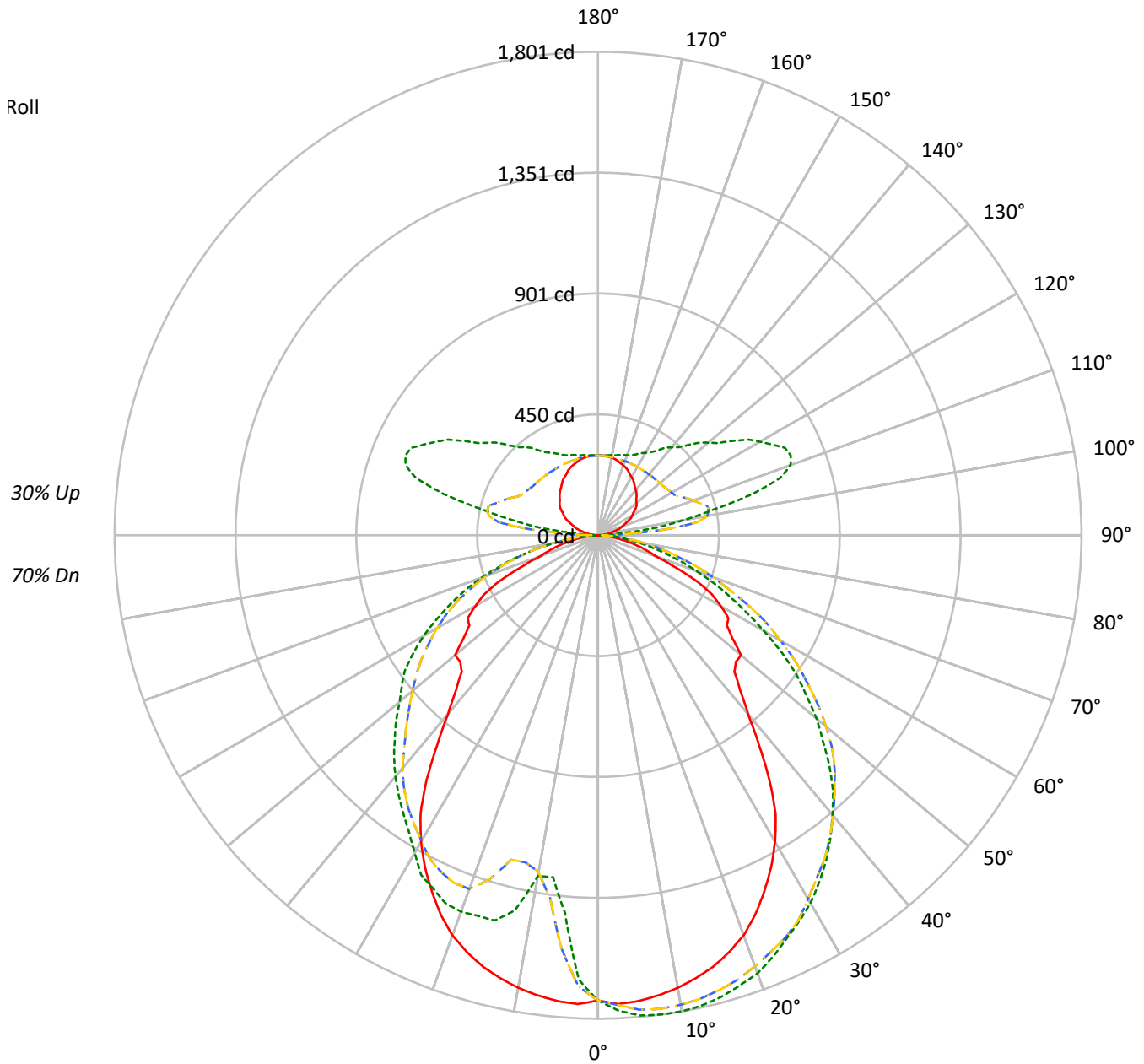
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6424.4 lumens
Efficiency: N/A
Efficacy: 114.7 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): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16084	16084	16084	16084
5°	16186	16237	16186	12766
10°	16060	15994	16060	11434
15°	15868	15647	15868	13065
20°	15518	15236	15518	13093
25°	14820	14637	14820	12815
30°	13925	14141	13925	12206
35°	12397	13512	12397	11537
40°	10311	12771	10311	11030
45°	9195	11906	9195	10449
50°	9747	10872	9747	9866
55°	9146	9759	9146	9528
60°	9392	8289	9392	8727
65°	8475	6851	8475	7659
70°	5829	5461	5829	6420
75°	5057	4037	5057	4833
80°	3992	2669	3992	2905
85°	2178	1413	2178	1200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14120 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	2.4
10°-20°	444.2	6.9
20°-30°	686.7	10.7
30°-40°	819.8	12.8
40°-50°	824.6	12.8
50°-60°	717.5	11.2
60°-70°	508.7	7.9
70°-80°	269.2	4.2
80°-90°	68.2	1.1
90°-100°	145.0	2.3
100°-110°	381.4	5.9
110°-120°	395.4	6.2
120°-130°	317.2	4.9
130°-140°	248.9	3.9
140°-150°	191.0	3.0
150°-160°	137.6	2.1
160°-170°	84.2	1.3
170°-180°	28.4	0.4
0°-30°	1287.4	20.0
0°-40°	2107.2	32.8
0°-60°	3649.3	56.8
0°-90°	4495.4	70.0
90°-120°	921.8	14.3
90°-150°	1678.9	26.1
90°-180°	1929.0	30.0
0°-180°	6424.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1733	1733	1733	1733	1733	
5°	1742	1796	1742	1412	1742	165
15°	1663	1779	1663	1486	1663	468
25°	1464	1660	1464	1453	1464	672
35°	1114	1481	1114	1264	1114	689
45°	718	1220	718	1071	718	575
55°	586	900	586	879	586	538
65°	407	543	407	607	407	389
75°	154	258	154	308	154	162
85°	26	66	26	56	26	35
90°	2	8	2	8	2	3
95°	19	88	19	88	19	21
105°	69	597	69	597	69	73
115°	122	769	122	769	122	120
125°	170	612	170	612	170	151
135°	202	475	202	475	202	157
145°	235	386	235	386	235	147
155°	265	332	265	332	265	122
165°	286	309	286	309	286	81
175°	298	300	298	300	298	28
180°	298	298	298	298	298	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1748.1	1748.1	1758.0	1761.3	1761.3	1756.3	1751.4	1756.3	1771.0	1776.0	1774.3
5°	1741.5	1754.7	1772.7	1776.0	1779.3	1777.6	1774.3	1777.6	1794.0	1797.3	1798.9
7.5°	1728.4	1753.0	1776.0	1780.9	1785.8	1780.9	1779.3	1782.6	1798.9	1802.2	1802.2
10°	1712.0	1746.4	1772.7	1776.0	1780.9	1776.0	1776.0	1782.6	1798.9	1802.2	1803.9
12.5°	1689.1	1736.6	1761.3	1764.5	1771.0	1769.4	1767.7	1774.3	1790.7	1794.0	1794.0
15°	1662.8	1718.6	1741.5	1744.8	1756.3	1753.0	1753.0	1759.6	1777.6	1782.6	1780.9
17.5°	1626.8	1695.7	1721.8	1726.8	1735.0	1733.3	1735.0	1741.5	1758.0	1761.3	1762.8
20°	1585.8	1664.5	1695.7	1700.5	1708.7	1708.7	1708.7	1717.0	1733.3	1739.9	1739.9
22.5°	1530.0	1631.7	1664.5	1667.7	1677.5	1677.5	1680.8	1692.4	1707.1	1708.7	1708.7
25°	1464.4	1595.6	1623.5	1633.3	1643.1	1648.1	1653.0	1659.5	1664.5	1662.8	1664.5
27.5°	1395.6	1549.6	1585.8	1592.3	1605.4	1610.4	1616.9	1618.5	1620.2	1625.1	1621.8
30°	1318.4	1485.7	1539.8	1546.4	1567.7	1570.9	1564.5	1567.7	1575.9	1579.2	1582.5
32.5°	1231.5	1390.6	1492.3	1507.0	1526.8	1516.9	1515.2	1520.2	1533.2	1533.2	1536.5
35°	1113.5	1316.8	1448.0	1461.2	1475.9	1464.4	1470.9	1472.6	1480.8	1485.7	1484.1
37.5°	983.9	1252.8	1402.0	1411.9	1423.4	1408.6	1418.5	1423.4	1430.0	1426.7	1426.7
40°	869.1	1152.8	1348.0	1354.6	1364.4	1352.9	1362.7	1366.0	1369.3	1366.0	1364.4
42.5°	783.8	1042.9	1290.6	1298.8	1292.2	1300.4	1303.7	1310.3	1305.3	1298.8	1298.8
45°	718.2	1013.5	1228.2	1238.1	1228.2	1241.4	1246.3	1246.3	1231.5	1228.2	1226.7
47.5°	696.9	954.4	1165.9	1165.9	1161.1	1177.4	1185.6	1174.1	1159.4	1154.5	1154.5
50°	695.3	888.8	1080.6	1074.1	1097.1	1116.8	1108.5	1097.1	1085.6	1067.5	1067.5
52.5°	631.3	808.4	970.8	995.4	1031.5	1042.9	1029.9	1018.3	998.7	990.5	983.9
55°	585.5	724.8	870.7	920.0	957.7	972.4	947.9	936.3	906.9	901.9	898.7
57.5°	575.6	603.5	779.0	841.3	887.1	885.6	870.7	849.4	824.8	820.0	818.3
60°	528.0	436.2	680.5	754.4	801.8	797.0	783.8	764.2	741.2	737.9	734.7
62.5°	478.9	316.5	569.0	652.6	719.9	718.2	706.8	677.2	660.9	652.6	646.1
65°	406.7	265.7	405.0	542.8	639.5	642.8	618.2	596.9	578.9	569.0	567.3
67.5°	309.9	216.5	273.8	452.6	562.5	559.2	528.0	518.2	495.3	490.3	480.5
70°	229.6	144.3	190.2	367.3	487.0	478.9	454.3	442.7	421.4	410.0	403.4
72.5°	190.2	116.5	139.3	285.4	410.0	400.1	378.8	365.7	347.7	337.8	331.2
75°	154.2	123.0	106.6	211.5	332.9	326.4	306.7	293.5	278.8	265.7	267.3
77.5°	113.2	114.8	85.3	155.8	264.1	254.2	242.7	226.3	219.8	206.6	206.6
80°	85.3	90.2	64.0	106.6	190.2	190.2	180.4	168.9	157.5	150.9	150.9
82.5°	57.4	57.4	47.6	67.2	129.6	124.6	118.0	114.8	108.2	104.9	104.9
85°	26.3	32.8	29.6	41.0	70.5	73.8	73.8	70.5	68.9	65.6	67.2
87.5°	8.2	14.7	18.0	23.0	36.0	37.7	39.3	39.3	39.3	41.0	41.0
90°	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1	7.6	7.6
92.5°	7.9	21.5	35.2	38.6	54.2	75.0	85.5	74.9	53.8	38.0	36.4
95°	19.2	44.0	68.9	75.1	133.3	211.0	249.8	222.9	169.1	128.8	124.2
97.5°	33.1	55.0	76.9	82.5	179.6	309.1	373.8	356.9	322.9	297.4	288.7
100°	43.9	63.8	83.7	88.7	196.4	340.1	412.0	413.3	415.8	417.6	407.3
102.5°	53.1	71.7	90.2	94.9	204.2	349.9	422.8	444.5	487.8	520.3	511.3
105°	68.7	84.4	100.1	104.1	209.9	351.1	421.6	470.2	567.3	640.1	635.4
107.5°	84.7	99.3	114.0	117.6	211.0	335.5	397.7	465.4	600.9	702.4	703.6
110°	95.4	108.6	121.9	125.2	209.4	321.6	377.7	453.4	604.8	718.4	723.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	106.0	118.6	131.2	134.4	209.4	309.5	359.5	437.0	592.0	708.2	715.9
115°	122.0	133.6	145.3	148.2	211.3	295.5	337.7	412.3	561.6	673.6	684.2
117.5°	137.8	148.4	158.9	161.5	215.3	286.9	322.8	390.1	524.8	625.9	637.6
120°	147.0	157.0	166.9	169.4	218.5	284.0	316.8	378.3	501.5	593.8	605.2
122.5°	156.0	166.1	176.1	178.6	223.1	282.5	312.1	367.5	478.5	561.6	572.9
125°	169.8	178.9	188.0	190.3	229.3	281.2	307.2	354.3	448.5	519.1	529.5
127.5°	180.9	190.2	199.4	201.7	235.5	280.5	303.0	343.4	424.2	484.9	493.6
130°	186.9	196.9	206.8	209.3	240.0	280.9	301.4	337.4	409.4	463.4	471.4
132.5°	193.1	203.1	213.0	215.5	243.7	281.2	300.0	332.2	396.6	445.0	452.2
135°	202.3	211.3	220.4	222.7	247.7	280.9	297.6	324.5	378.5	419.0	425.2
137.5°	211.7	220.6	229.7	231.9	253.7	282.7	297.2	320.0	365.6	399.8	404.9
140°	219.5	227.7	236.0	238.1	257.3	282.9	295.7	315.5	354.9	384.5	389.2
142.5°	225.5	233.1	240.7	242.6	260.4	283.9	295.7	313.1	347.7	373.6	377.7
145°	234.7	241.3	248.0	249.6	264.3	284.0	293.8	307.9	336.2	357.5	360.6
147.5°	243.9	250.4	256.8	258.4	270.3	286.0	293.8	304.9	327.2	343.9	346.5
150°	249.8	255.6	261.5	263.0	273.3	286.9	293.8	303.2	322.0	336.1	338.3
152.5°	256.0	260.5	264.9	266.0	275.3	287.6	293.8	301.8	317.9	329.9	331.5
155°	265.2	268.5	271.8	272.6	279.7	289.1	293.8	300.2	313.0	322.6	323.6
157.5°	272.0	275.2	278.4	279.2	284.0	290.5	293.8	298.7	308.7	316.2	317.0
160°	276.6	279.1	281.6	282.2	286.0	291.2	293.8	298.1	306.6	313.0	313.4
162.5°	281.2	283.0	284.9	285.4	288.2	292.0	293.8	297.4	304.6	310.0	310.4
165°	286.2	287.9	289.6	290.0	291.3	292.9	293.8	296.3	301.5	305.3	305.7
167.5°	290.8	291.6	292.3	292.5	293.6	295.1	295.7	297.5	300.9	303.4	303.6
170°	293.8	294.6	295.4	295.5	295.6	295.7	295.7	297.5	300.9	303.4	303.4
172.5°	295.4	295.5	295.7	295.7	295.7	295.7	295.7	297.1	299.7	301.7	301.6
175°	297.6	297.6	297.6	297.6	297.0	296.1	295.7	296.6	298.4	299.6	299.6
177.5°	297.6	297.6	297.6	297.6	297.1	296.5	296.2	296.9	298.3	299.2	299.0
180°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1777.6	1772.7	1777.6	1774.3	1776.0	1771.0	1756.3	1751.4	1756.3	1761.3	1761.3
5°	1798.9	1795.7	1798.9	1798.9	1797.3	1794.0	1777.6	1774.3	1777.6	1779.3	1776.0
7.5°	1805.4	1800.6	1805.4	1802.2	1802.2	1798.9	1782.6	1779.3	1780.9	1785.8	1780.9
10°	1805.4	1800.6	1805.4	1803.9	1802.2	1798.9	1782.6	1776.0	1776.0	1780.9	1776.0
12.5°	1797.3	1794.0	1797.3	1794.0	1794.0	1790.7	1774.3	1767.7	1769.4	1771.0	1764.5
15°	1784.1	1779.3	1784.1	1780.9	1782.6	1777.6	1759.6	1753.0	1753.0	1756.3	1744.8
17.5°	1764.5	1758.0	1764.5	1762.8	1761.3	1758.0	1741.5	1735.0	1733.3	1735.0	1726.8
20°	1741.5	1736.6	1741.5	1739.9	1739.9	1733.3	1717.0	1708.7	1708.7	1708.7	1700.5
22.5°	1705.4	1700.5	1705.4	1708.7	1708.7	1707.1	1692.4	1680.8	1677.5	1677.5	1667.7
25°	1664.5	1659.5	1664.5	1664.5	1662.8	1664.5	1659.5	1653.0	1648.1	1643.1	1633.3
27.5°	1625.1	1621.8	1625.1	1621.8	1625.1	1620.2	1618.5	1616.9	1610.4	1605.4	1592.3
30°	1585.8	1582.5	1585.8	1582.5	1579.2	1575.9	1567.7	1564.5	1570.9	1567.7	1546.4
32.5°	1536.5	1533.2	1536.5	1536.5	1533.2	1533.2	1520.2	1515.2	1516.9	1526.8	1507.0
35°	1485.7	1480.8	1485.7	1484.1	1485.7	1480.8	1472.6	1470.9	1464.4	1475.9	1461.2
37.5°	1426.7	1421.7	1426.7	1426.7	1426.7	1430.0	1423.4	1418.5	1408.6	1423.4	1411.9
40°	1366.0	1359.4	1366.0	1364.4	1366.0	1369.3	1366.0	1362.7	1352.9	1364.4	1354.6
42.5°	1297.1	1295.5	1297.1	1298.8	1298.8	1305.3	1310.3	1303.7	1300.4	1292.2	1298.8
45°	1223.4	1220.1	1223.4	1226.7	1228.2	1231.5	1246.3	1246.3	1241.4	1228.2	1238.1
47.5°	1144.6	1136.4	1144.6	1154.5	1154.5	1159.4	1174.1	1185.6	1177.4	1161.1	1165.9
50°	1061.0	1062.6	1061.0	1067.5	1067.5	1085.6	1097.1	1108.5	1116.8	1097.1	1074.1
52.5°	979.0	977.3	979.0	983.9	990.5	998.7	1018.3	1029.9	1042.9	1031.5	995.4
55°	897.0	900.3	897.0	898.7	901.9	906.9	936.3	947.9	972.4	957.7	920.0
57.5°	815.0	810.1	815.0	818.3	820.0	824.8	849.4	870.7	885.6	887.1	841.3
60°	719.9	713.4	719.9	734.7	737.9	741.2	764.2	783.8	797.0	801.8	754.4
62.5°	636.2	624.8	636.2	646.1	652.6	660.9	677.2	706.8	718.2	719.9	652.6
65°	547.7	542.8	547.7	567.3	569.0	578.9	596.9	618.2	642.8	639.5	542.8
67.5°	467.3	467.3	467.3	480.5	490.3	495.3	518.2	528.0	559.2	562.5	452.6
70°	393.6	392.0	393.6	403.4	410.0	421.4	442.7	454.3	478.9	487.0	367.3
72.5°	323.1	321.4	323.1	331.2	337.8	347.7	365.7	378.8	400.1	410.0	285.4
75°	260.8	257.5	260.8	267.3	265.7	278.8	293.5	306.7	326.4	332.9	211.5
77.5°	200.1	200.1	200.1	206.6	206.6	219.8	226.3	242.7	254.2	264.1	155.8
80°	149.2	147.6	149.2	150.9	150.9	157.5	168.9	180.4	190.2	190.2	106.6
82.5°	104.9	101.6	104.9	104.9	104.9	108.2	114.8	118.0	124.6	129.6	67.2
85°	65.6	65.6	65.6	67.2	65.6	68.9	70.5	73.8	73.8	70.5	41.0
87.5°	42.6	41.0	42.6	41.0	41.0	39.3	39.3	39.3	37.7	36.0	23.0
90°	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1	8.8	5.6
92.5°	30.4	24.3	30.4	36.4	38.0	53.8	74.9	85.5	75.0	54.2	38.6
95°	105.9	87.7	105.9	124.2	128.8	169.1	222.9	249.8	211.0	133.3	75.1
97.5°	253.9	219.1	253.9	288.7	297.4	322.9	356.9	373.8	309.1	179.6	82.5
100°	365.8	324.3	365.8	407.3	417.6	415.8	413.3	412.0	340.1	196.4	88.7
102.5°	475.9	440.4	475.9	511.3	520.3	487.8	444.5	422.8	349.9	204.2	94.9
105°	616.3	597.2	616.3	635.4	640.1	567.3	470.2	421.6	351.1	209.9	104.1
107.5°	708.1	712.8	708.1	703.6	702.4	600.9	465.4	397.7	335.5	211.0	117.6
110°	743.2	763.1	743.2	723.4	718.4	604.8	453.4	377.7	321.6	209.4	125.2



TEST NUMBER: P934598

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	746.4	776.9	746.4	715.9	708.2	592.0	437.0	359.5	309.5	209.4	134.4
115°	726.6	768.9	726.6	684.2	673.6	561.6	412.3	337.7	295.5	211.3	148.2
117.5°	684.6	731.6	684.6	637.6	625.9	524.8	390.1	322.8	286.9	215.3	161.5
120°	650.8	696.4	650.8	605.2	593.8	501.5	378.3	316.8	284.0	218.5	169.4
122.5°	617.9	662.9	617.9	572.9	561.6	478.5	367.5	312.1	282.5	223.1	178.6
125°	570.8	612.3	570.8	529.5	519.1	448.5	354.3	307.2	281.2	229.3	190.3
127.5°	528.6	563.6	528.6	493.6	484.9	424.2	343.4	303.0	280.5	235.5	201.7
130°	503.8	536.1	503.8	471.4	463.4	409.4	337.4	301.4	280.9	240.0	209.3
132.5°	481.1	510.1	481.1	452.2	445.0	396.6	332.2	300.0	281.2	243.7	215.5
135°	450.2	475.1	450.2	425.2	419.0	378.5	324.5	297.6	280.9	247.7	222.7
137.5°	425.3	445.7	425.3	404.9	399.8	365.6	320.0	297.2	282.7	253.7	231.9
140°	408.3	427.4	408.3	389.2	384.5	354.9	315.5	295.7	282.9	257.3	238.1
142.5°	394.2	410.7	394.2	377.7	373.6	347.7	313.1	295.7	283.9	260.4	242.6
145°	373.1	385.5	373.1	360.6	357.5	336.2	307.9	293.8	284.0	264.3	249.6
147.5°	356.8	367.1	356.8	346.5	343.9	327.2	304.9	293.8	286.0	270.3	258.4
150°	346.6	354.9	346.6	338.3	336.1	322.0	303.2	293.8	286.9	273.3	263.0
152.5°	337.8	344.1	337.8	331.5	329.9	317.9	301.8	293.8	287.6	275.3	266.0
155°	327.8	332.0	327.8	323.6	322.6	313.0	300.2	293.8	289.1	279.7	272.6
157.5°	319.9	322.8	319.9	317.0	316.2	308.7	298.7	293.8	290.5	284.0	279.2
160°	315.1	316.8	315.1	313.4	313.0	306.6	298.1	293.8	291.2	286.0	282.2
162.5°	312.0	313.6	312.0	310.4	310.0	304.6	297.4	293.8	292.0	288.2	285.4
165°	307.5	309.2	307.5	305.7	305.3	301.5	296.3	293.8	292.9	291.3	290.0
167.5°	304.3	304.9	304.3	303.6	303.4	300.9	297.5	295.7	295.1	293.6	292.5
170°	303.4	303.4	303.4	303.4	303.4	300.9	297.5	295.7	295.7	295.6	295.5
172.5°	301.0	300.4	301.0	301.6	301.7	299.7	297.1	295.7	295.7	295.7	295.7
175°	299.6	299.6	299.6	299.6	299.6	298.4	296.6	295.7	296.1	297.0	297.6
177.5°	298.4	297.6	298.4	299.0	299.2	298.3	296.9	296.2	296.5	297.1	297.6
180°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6



TEST NUMBER: P934598
 CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1758.0	1748.1	1748.1	1731.7	1725.1	1720.2	1712.0	1687.4	1680.8	1674.3	1684.1
5°	1772.7	1754.7	1741.5	1712.0	1687.4	1677.5	1646.4	1587.4	1548.1	1518.5	1502.1
7.5°	1776.0	1753.0	1728.4	1682.5	1623.5	1597.2	1502.1	1393.9	1364.4	1338.1	1321.7
10°	1772.7	1746.4	1712.0	1643.1	1503.8	1457.9	1362.7	1292.2	1274.1	1269.3	1274.1
12.5°	1761.3	1736.6	1689.1	1574.2	1379.1	1348.0	1292.2	1251.2	1248.0	1256.1	1300.4
15°	1741.5	1718.6	1662.8	1482.5	1310.3	1287.3	1248.0	1233.1	1251.2	1308.6	1441.5
17.5°	1721.8	1695.7	1626.8	1392.3	1257.8	1241.4	1213.5	1243.0	1344.7	1421.7	1466.0
20°	1695.7	1664.5	1585.8	1326.7	1220.1	1205.3	1192.2	1325.0	1402.0	1430.0	1454.6
22.5°	1664.5	1631.7	1530.0	1280.7	1180.7	1169.2	1177.4	1370.9	1402.0	1421.7	1443.0
25°	1623.5	1595.6	1464.4	1244.7	1149.5	1136.4	1167.5	1366.0	1384.0	1389.0	1431.6
27.5°	1585.8	1549.6	1395.6	1211.8	1111.8	1106.9	1175.8	1344.7	1357.8	1362.7	1408.6
30°	1539.8	1485.7	1318.4	1177.4	1072.5	1070.8	1177.4	1318.4	1315.1	1328.3	1374.2
32.5°	1492.3	1390.6	1231.5	1134.8	1034.8	1033.1	1165.9	1279.1	1275.8	1293.8	1328.3
35°	1448.0	1316.8	1113.5	1085.6	987.2	988.9	1138.1	1233.1	1234.8	1251.2	1272.5
37.5°	1402.0	1252.8	983.9	1031.5	941.3	941.3	1100.3	1190.5	1187.2	1192.2	1221.7
40°	1348.0	1152.8	869.1	961.0	898.7	893.7	1054.5	1144.6	1133.1	1131.5	1172.5
42.5°	1290.6	1042.9	783.8	867.4	849.4	842.9	998.7	1088.9	1067.5	1072.5	1124.9
45°	1228.2	1013.5	718.2	733.0	798.6	793.7	938.0	1024.9	1010.2	1023.3	1077.4
47.5°	1165.9	954.4	696.9	608.4	744.5	742.8	870.7	962.6	954.4	967.5	1024.9
50°	1080.6	888.8	695.3	521.5	683.8	690.4	790.4	901.9	901.9	913.4	974.0
52.5°	970.8	808.4	631.3	472.3	613.3	633.0	719.9	849.4	852.7	864.3	918.3
55°	870.7	724.8	585.5	434.6	529.7	572.3	651.1	795.4	801.8	813.4	862.6
57.5°	779.0	603.5	575.6	390.3	452.6	493.6	590.3	742.8	746.1	756.0	803.5
60°	680.5	436.2	528.0	342.7	385.4	416.5	534.6	680.5	692.1	698.6	739.5
62.5°	569.0	316.5	478.9	309.9	352.5	359.1	488.7	621.5	636.2	641.2	665.8
65°	405.0	265.7	406.7	282.1	318.1	319.8	439.4	560.9	573.9	582.2	600.2
67.5°	273.8	216.5	309.9	255.8	291.9	293.5	392.0	490.3	508.3	514.9	526.4
70°	190.2	144.3	229.6	227.9	262.4	265.7	341.1	426.4	442.7	447.7	454.3
72.5°	139.3	116.5	190.2	204.9	231.2	234.5	288.6	354.2	370.6	375.5	378.8
75°	106.6	123.0	154.2	178.8	196.8	198.5	236.1	288.6	300.1	303.4	305.0
77.5°	85.3	114.8	113.2	144.3	160.7	157.5	185.3	223.1	232.9	232.9	232.9
80°	64.0	90.2	85.3	103.3	118.0	114.8	132.8	159.1	162.3	165.6	164.0
82.5°	47.6	57.4	57.4	65.6	78.7	75.4	88.6	103.3	103.3	103.3	106.6
85°	29.6	32.8	26.3	34.4	44.3	42.6	49.2	55.7	57.4	57.4	54.1
87.5°	18.0	14.7	8.2	13.1	19.7	19.7	23.0	24.6	23.0	23.0	23.0
90°	5.2	3.6	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1
92.5°	35.2	21.5	7.9	21.5	35.2	38.6	54.2	75.0	85.5	74.9	53.8
95°	68.9	44.0	19.2	44.0	68.9	75.1	133.3	211.0	249.8	222.9	169.1
97.5°	76.9	55.0	33.1	55.0	76.9	82.5	179.6	309.1	373.8	356.9	322.9
100°	83.7	63.8	43.9	63.8	83.7	88.7	196.4	340.1	412.0	413.3	415.8
102.5°	90.2	71.7	53.1	71.7	90.2	94.9	204.2	349.9	422.8	444.5	487.8
105°	100.1	84.4	68.7	84.4	100.1	104.1	209.9	351.1	421.6	470.2	567.3
107.5°	114.0	99.3	84.7	99.3	114.0	117.6	211.0	335.5	397.7	465.4	600.9
110°	121.9	108.6	95.4	108.6	121.9	125.2	209.4	321.6	377.7	453.4	604.8



TEST NUMBER: P934598

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	131.2	118.6	106.0	118.6	131.2	134.4	209.4	309.5	359.5	437.0	592.0
115°	145.3	133.6	122.0	133.6	145.3	148.2	211.3	295.5	337.7	412.3	561.6
117.5°	158.9	148.4	137.8	148.4	158.9	161.5	215.3	286.9	322.8	390.1	524.8
120°	166.9	157.0	147.0	157.0	166.9	169.4	218.5	284.0	316.8	378.3	501.5
122.5°	176.1	166.1	156.0	166.1	176.1	178.6	223.1	282.5	312.1	367.5	478.5
125°	188.0	178.9	169.8	178.9	188.0	190.3	229.3	281.2	307.2	354.3	448.5
127.5°	199.4	190.2	180.9	190.2	199.4	201.7	235.5	280.5	303.0	343.4	424.2
130°	206.8	196.9	186.9	196.9	206.8	209.3	240.0	280.9	301.4	337.4	409.4
132.5°	213.0	203.1	193.1	203.1	213.0	215.5	243.7	281.2	300.0	332.2	396.6
135°	220.4	211.3	202.3	211.3	220.4	222.7	247.7	280.9	297.6	324.5	378.5
137.5°	229.7	220.6	211.7	220.6	229.7	231.9	253.7	282.7	297.2	320.0	365.6
140°	236.0	227.7	219.5	227.7	236.0	238.1	257.3	282.9	295.7	315.5	354.9
142.5°	240.7	233.1	225.5	233.1	240.7	242.6	260.4	283.9	295.7	313.1	347.7
145°	248.0	241.3	234.7	241.3	248.0	249.6	264.3	284.0	293.8	307.9	336.2
147.5°	256.8	250.4	243.9	250.4	256.8	258.4	270.3	286.0	293.8	304.9	327.2
150°	261.5	255.6	249.8	255.6	261.5	263.0	273.3	286.9	293.8	303.2	322.0
152.5°	264.9	260.5	256.0	260.5	264.9	266.0	275.3	287.6	293.8	301.8	317.9
155°	271.8	268.5	265.2	268.5	271.8	272.6	279.7	289.1	293.8	300.2	313.0
157.5°	278.4	275.2	272.0	275.2	278.4	279.2	284.0	290.5	293.8	298.7	308.7
160°	281.6	279.1	276.6	279.1	281.6	282.2	286.0	291.2	293.8	298.1	306.6
162.5°	284.9	283.0	281.2	283.0	284.9	285.4	288.2	292.0	293.8	297.4	304.6
165°	289.6	287.9	286.2	287.9	289.6	290.0	291.3	292.9	293.8	296.3	301.5
167.5°	292.3	291.6	290.8	291.6	292.3	292.5	293.6	295.1	295.7	297.5	300.9
170°	295.4	294.6	293.8	294.6	295.4	295.5	295.6	295.7	295.7	297.5	300.9
172.5°	295.7	295.5	295.4	295.5	295.7	295.7	295.7	295.7	295.7	297.1	299.7
175°	297.6	297.6	297.6	297.6	297.6	297.6	297.0	296.1	295.7	296.6	298.4
177.5°	297.6	297.6	297.6	297.6	297.6	297.6	297.1	296.5	296.2	296.9	298.3
180°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6



TEST NUMBER: P934598
 CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1672.7	1667.7	1674.3	1656.2	1674.3	1667.7	1672.7	1684.1	1674.3	1680.8	1687.4
5°	1467.6	1459.5	1433.2	1411.9	1433.2	1459.5	1467.6	1502.1	1518.5	1548.1	1587.4
7.5°	1311.9	1305.3	1298.8	1285.7	1298.8	1305.3	1311.9	1321.7	1338.1	1364.4	1393.9
10°	1277.4	1279.1	1289.0	1287.3	1289.0	1279.1	1277.4	1274.1	1269.3	1274.1	1292.2
12.5°	1366.0	1380.7	1434.9	1431.6	1434.9	1380.7	1366.0	1300.4	1256.1	1248.0	1251.2
15°	1467.6	1472.6	1484.1	1485.7	1484.1	1472.6	1467.6	1441.5	1308.6	1251.2	1233.1
17.5°	1477.5	1479.2	1487.3	1487.3	1487.3	1479.2	1477.5	1466.0	1421.7	1344.7	1243.0
20°	1469.3	1472.6	1489.0	1492.3	1489.0	1472.6	1469.3	1454.6	1430.0	1402.0	1325.0
22.5°	1466.0	1472.6	1485.7	1484.1	1485.7	1472.6	1466.0	1443.0	1421.7	1402.0	1370.9
25°	1449.6	1449.6	1451.3	1452.9	1451.3	1449.6	1449.6	1431.6	1389.0	1384.0	1366.0
27.5°	1415.2	1418.5	1428.3	1426.7	1428.3	1418.5	1415.2	1408.6	1362.7	1357.8	1344.7
30°	1384.0	1380.7	1372.6	1366.0	1372.6	1380.7	1384.0	1374.2	1328.3	1315.1	1318.4
32.5°	1331.6	1323.4	1315.1	1310.3	1315.1	1323.4	1331.6	1328.3	1293.8	1275.8	1279.1
35°	1269.3	1270.8	1269.3	1264.4	1269.3	1270.8	1269.3	1272.5	1251.2	1234.8	1233.1
37.5°	1225.0	1228.2	1226.7	1220.1	1226.7	1228.2	1225.0	1221.7	1192.2	1187.2	1190.5
40°	1179.1	1180.7	1179.1	1174.1	1179.1	1180.7	1179.1	1172.5	1131.5	1133.1	1144.6
42.5°	1134.8	1133.1	1128.2	1124.9	1128.2	1133.1	1134.8	1124.9	1072.5	1067.5	1088.9
45°	1083.9	1085.6	1075.8	1070.8	1075.8	1085.6	1083.9	1077.4	1023.3	1010.2	1024.9
47.5°	1033.1	1033.1	1024.9	1020.0	1024.9	1033.1	1033.1	1024.9	967.5	954.4	962.6
50°	979.0	977.3	965.9	964.3	965.9	977.3	979.0	974.0	913.4	901.9	901.9
52.5°	916.7	916.7	918.3	921.6	918.3	916.7	916.7	918.3	864.3	852.7	849.4
55°	862.6	864.3	875.7	879.0	875.7	864.3	862.6	862.6	813.4	801.8	795.4
57.5°	806.8	806.8	815.0	815.0	815.0	806.8	806.8	803.5	756.0	746.1	742.8
60°	742.8	746.1	752.7	751.1	752.7	746.1	742.8	739.5	698.6	692.1	680.5
62.5°	675.6	678.9	680.5	677.2	680.5	678.9	675.6	665.8	641.2	636.2	621.5
65°	605.1	608.4	610.0	606.8	610.0	608.4	605.1	600.2	582.2	573.9	560.9
67.5°	532.9	531.3	529.7	536.2	529.7	531.3	532.9	526.4	514.9	508.3	490.3
70°	459.1	459.1	457.6	460.8	457.6	459.1	459.1	454.3	447.7	442.7	426.4
72.5°	380.4	378.8	385.4	380.4	385.4	378.8	380.4	378.8	375.5	370.6	354.2
75°	303.4	306.7	303.4	308.3	303.4	306.7	303.4	305.0	303.4	300.1	288.6
77.5°	231.2	234.5	231.2	231.2	231.2	234.5	231.2	232.9	232.9	232.9	223.1
80°	164.0	162.3	162.3	160.7	162.3	162.3	164.0	164.0	165.6	162.3	159.1
82.5°	104.9	103.3	103.3	106.6	103.3	103.3	104.9	106.6	103.3	103.3	103.3
85°	57.4	59.0	55.7	55.7	55.7	59.0	57.4	54.1	57.4	57.4	55.7
87.5°	21.3	19.7	19.7	19.7	19.7	19.7	21.3	23.0	23.0	23.0	24.6
90°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1
92.5°	38.0	36.4	30.4	24.3	30.4	36.4	38.0	53.8	74.9	85.5	75.0
95°	128.8	124.2	105.9	87.7	105.9	124.2	128.8	169.1	222.9	249.8	211.0
97.5°	297.4	288.7	253.9	219.1	253.9	288.7	297.4	322.9	356.9	373.8	309.1
100°	417.6	407.3	365.8	324.3	365.8	407.3	417.6	415.8	413.3	412.0	340.1
102.5°	520.3	511.3	475.9	440.4	475.9	511.3	520.3	487.8	444.5	422.8	349.9
105°	640.1	635.4	616.3	597.2	616.3	635.4	640.1	567.3	470.2	421.6	351.1
107.5°	702.4	703.6	708.1	712.8	708.1	703.6	702.4	600.9	465.4	397.7	335.5
110°	718.4	723.4	743.2	763.1	743.2	723.4	718.4	604.8	453.4	377.7	321.6



TEST NUMBER: P934598

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	708.2	715.9	746.4	776.9	746.4	715.9	708.2	592.0	437.0	359.5	309.5
115°	673.6	684.2	726.6	768.9	726.6	684.2	673.6	561.6	412.3	337.7	295.5
117.5°	625.9	637.6	684.6	731.6	684.6	637.6	625.9	524.8	390.1	322.8	286.9
120°	593.8	605.2	650.8	696.4	650.8	605.2	593.8	501.5	378.3	316.8	284.0
122.5°	561.6	572.9	617.9	662.9	617.9	572.9	561.6	478.5	367.5	312.1	282.5
125°	519.1	529.5	570.8	612.3	570.8	529.5	519.1	448.5	354.3	307.2	281.2
127.5°	484.9	493.6	528.6	563.6	528.6	493.6	484.9	424.2	343.4	303.0	280.5
130°	463.4	471.4	503.8	536.1	503.8	471.4	463.4	409.4	337.4	301.4	280.9
132.5°	445.0	452.2	481.1	510.1	481.1	452.2	445.0	396.6	332.2	300.0	281.2
135°	419.0	425.2	450.2	475.1	450.2	425.2	419.0	378.5	324.5	297.6	280.9
137.5°	399.8	404.9	425.3	445.7	425.3	404.9	399.8	365.6	320.0	297.2	282.7
140°	384.5	389.2	408.3	427.4	408.3	389.2	384.5	354.9	315.5	295.7	282.9
142.5°	373.6	377.7	394.2	410.7	394.2	377.7	373.6	347.7	313.1	295.7	283.9
145°	357.5	360.6	373.1	385.5	373.1	360.6	357.5	336.2	307.9	293.8	284.0
147.5°	343.9	346.5	356.8	367.1	356.8	346.5	343.9	327.2	304.9	293.8	286.0
150°	336.1	338.3	346.6	354.9	346.6	338.3	336.1	322.0	303.2	293.8	286.9
152.5°	329.9	331.5	337.8	344.1	337.8	331.5	329.9	317.9	301.8	293.8	287.6
155°	322.6	323.6	327.8	332.0	327.8	323.6	322.6	313.0	300.2	293.8	289.1
157.5°	316.2	317.0	319.9	322.8	319.9	317.0	316.2	308.7	298.7	293.8	290.5
160°	313.0	313.4	315.1	316.8	315.1	313.4	313.0	306.6	298.1	293.8	291.2
162.5°	310.0	310.4	312.0	313.6	312.0	310.4	310.0	304.6	297.4	293.8	292.0
165°	305.3	305.7	307.5	309.2	307.5	305.7	305.3	301.5	296.3	293.8	292.9
167.5°	303.4	303.6	304.3	304.9	304.3	303.6	303.4	300.9	297.5	295.7	295.1
170°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	300.9	297.5	295.7	295.7
172.5°	301.7	301.6	301.0	300.4	301.0	301.6	301.7	299.7	297.1	295.7	295.7
175°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	298.4	296.6	295.7	296.1
177.5°	299.2	299.0	298.4	297.6	298.4	299.0	299.2	298.3	296.9	296.2	296.5
180°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1712.0	1720.2	1725.1	1731.7	1748.1
5°	1646.4	1677.5	1687.4	1712.0	1741.5
7.5°	1502.1	1597.2	1623.5	1682.5	1728.4
10°	1362.7	1457.9	1503.8	1643.1	1712.0
12.5°	1292.2	1348.0	1379.1	1574.2	1689.1
15°	1248.0	1287.3	1310.3	1482.5	1662.8
17.5°	1213.5	1241.4	1257.8	1392.3	1626.8
20°	1192.2	1205.3	1220.1	1326.7	1585.8
22.5°	1177.4	1169.2	1180.7	1280.7	1530.0
25°	1167.5	1136.4	1149.5	1244.7	1464.4
27.5°	1175.8	1106.9	1111.8	1211.8	1395.6
30°	1177.4	1070.8	1072.5	1177.4	1318.4
32.5°	1165.9	1033.1	1034.8	1134.8	1231.5
35°	1138.1	988.9	987.2	1085.6	1113.5
37.5°	1100.3	941.3	941.3	1031.5	983.9
40°	1054.5	893.7	898.7	961.0	869.1
42.5°	998.7	842.9	849.4	867.4	783.8
45°	938.0	793.7	798.6	733.0	718.2
47.5°	870.7	742.8	744.5	608.4	696.9
50°	790.4	690.4	683.8	521.5	695.3
52.5°	719.9	633.0	613.3	472.3	631.3
55°	651.1	572.3	529.7	434.6	585.5
57.5°	590.3	493.6	452.6	390.3	575.6
60°	534.6	416.5	385.4	342.7	528.0
62.5°	488.7	359.1	352.5	309.9	478.9
65°	439.4	319.8	318.1	282.1	406.7
67.5°	392.0	293.5	291.9	255.8	309.9
70°	341.1	265.7	262.4	227.9	229.6
72.5°	288.6	234.5	231.2	204.9	190.2
75°	236.1	198.5	196.8	178.8	154.2
77.5°	185.3	157.5	160.7	144.3	113.2
80°	132.8	114.8	118.0	103.3	85.3
82.5°	88.6	75.4	78.7	65.6	57.4
85°	49.2	42.6	44.3	34.4	26.3
87.5°	23.0	19.7	19.7	13.1	8.2
90°	8.8	5.6	5.2	3.6	2.0
92.5°	54.2	38.6	35.2	21.5	7.9
95°	133.3	75.1	68.9	44.0	19.2
97.5°	179.6	82.5	76.9	55.0	33.1
100°	196.4	88.7	83.7	63.8	43.9
102.5°	204.2	94.9	90.2	71.7	53.1
105°	209.9	104.1	100.1	84.4	68.7
107.5°	211.0	117.6	114.0	99.3	84.7
110°	209.4	125.2	121.9	108.6	95.4



TEST NUMBER: P934598

CATALOG NUMBER: SQ4-FA-050U-125D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	209.4	134.4	131.2	118.6	106.0
115°	211.3	148.2	145.3	133.6	122.0
117.5°	215.3	161.5	158.9	148.4	137.8
120°	218.5	169.4	166.9	157.0	147.0
122.5°	223.1	178.6	176.1	166.1	156.0
125°	229.3	190.3	188.0	178.9	169.8
127.5°	235.5	201.7	199.4	190.2	180.9
130°	240.0	209.3	206.8	196.9	186.9
132.5°	243.7	215.5	213.0	203.1	193.1
135°	247.7	222.7	220.4	211.3	202.3
137.5°	253.7	231.9	229.7	220.6	211.7
140°	257.3	238.1	236.0	227.7	219.5
142.5°	260.4	242.6	240.7	233.1	225.5
145°	264.3	249.6	248.0	241.3	234.7
147.5°	270.3	258.4	256.8	250.4	243.9
150°	273.3	263.0	261.5	255.6	249.8
152.5°	275.3	266.0	264.9	260.5	256.0
155°	279.7	272.6	271.8	268.5	265.2
157.5°	284.0	279.2	278.4	275.2	272.0
160°	286.0	282.2	281.6	279.1	276.6
162.5°	288.2	285.4	284.9	283.0	281.2
165°	291.3	290.0	289.6	287.9	286.2
167.5°	293.6	292.5	292.3	291.6	290.8
170°	295.6	295.5	295.4	294.6	293.8
172.5°	295.7	295.7	295.7	295.5	295.4
175°	297.0	297.6	297.6	297.6	297.6
177.5°	297.1	297.6	297.6	297.6	297.6
180°	297.6	297.6	297.6	297.6	297.6



TEST NUMBER: P934598
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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	16.11	17.19	16.88	17.97	18.93	18.91	19.98	19.67	20.77	21.72
	3H	16.61	17.57	17.38	18.37	19.35	20.26	21.23	21.04	22.02	23.01
	4H	16.81	17.72	17.60	18.52	19.52	20.71	21.62	21.50	22.42	23.42
	6H	16.94	17.78	17.75	18.59	19.60	21.00	21.84	21.81	22.65	23.66
	8H	16.94	17.74	17.76	18.58	19.59	21.07	21.87	21.89	22.71	23.72
	12H	16.92	17.69	17.75	18.51	19.55	21.11	21.88	21.94	22.70	23.74
4H	2H	17.16	18.07	17.96	18.88	19.87	19.35	20.26	20.15	21.06	22.06
	3H	18.21	18.97	19.02	19.81	20.82	20.86	21.62	21.67	22.46	23.47
	4H	18.49	19.18	19.32	20.02	21.06	21.39	22.08	22.22	22.92	23.96
	6H	18.63	19.23	19.47	20.09	21.14	21.76	22.36	22.60	23.22	24.27
	8H	18.64	19.20	19.49	20.06	21.12	21.87	22.43	22.71	23.28	24.34
	12H	18.62	19.12	19.49	20.00	21.06	21.93	22.43	22.80	23.31	24.37
8H	4H	18.96	19.52	19.81	20.38	21.43	21.53	22.09	22.38	22.95	24.01
	6H	19.23	19.69	20.10	20.59	21.65	21.97	22.43	22.85	23.33	24.39
	8H	19.27	19.68	20.16	20.58	21.65	22.12	22.53	23.01	23.42	24.50
	12H	19.27	19.63	20.16	20.52	21.64	22.22	22.58	23.11	23.47	24.60
12H	4H	18.98	19.48	19.84	20.36	21.42	21.51	22.01	22.38	22.89	23.95
	6H	19.29	19.70	20.18	20.60	21.67	21.97	22.38	22.86	23.28	24.35
	8H	19.37	19.73	20.26	20.61	21.74	22.14	22.50	23.02	23.38	24.51