

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: P934518

Luminaire Tested: SQ4-FA-050U-125D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934518
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

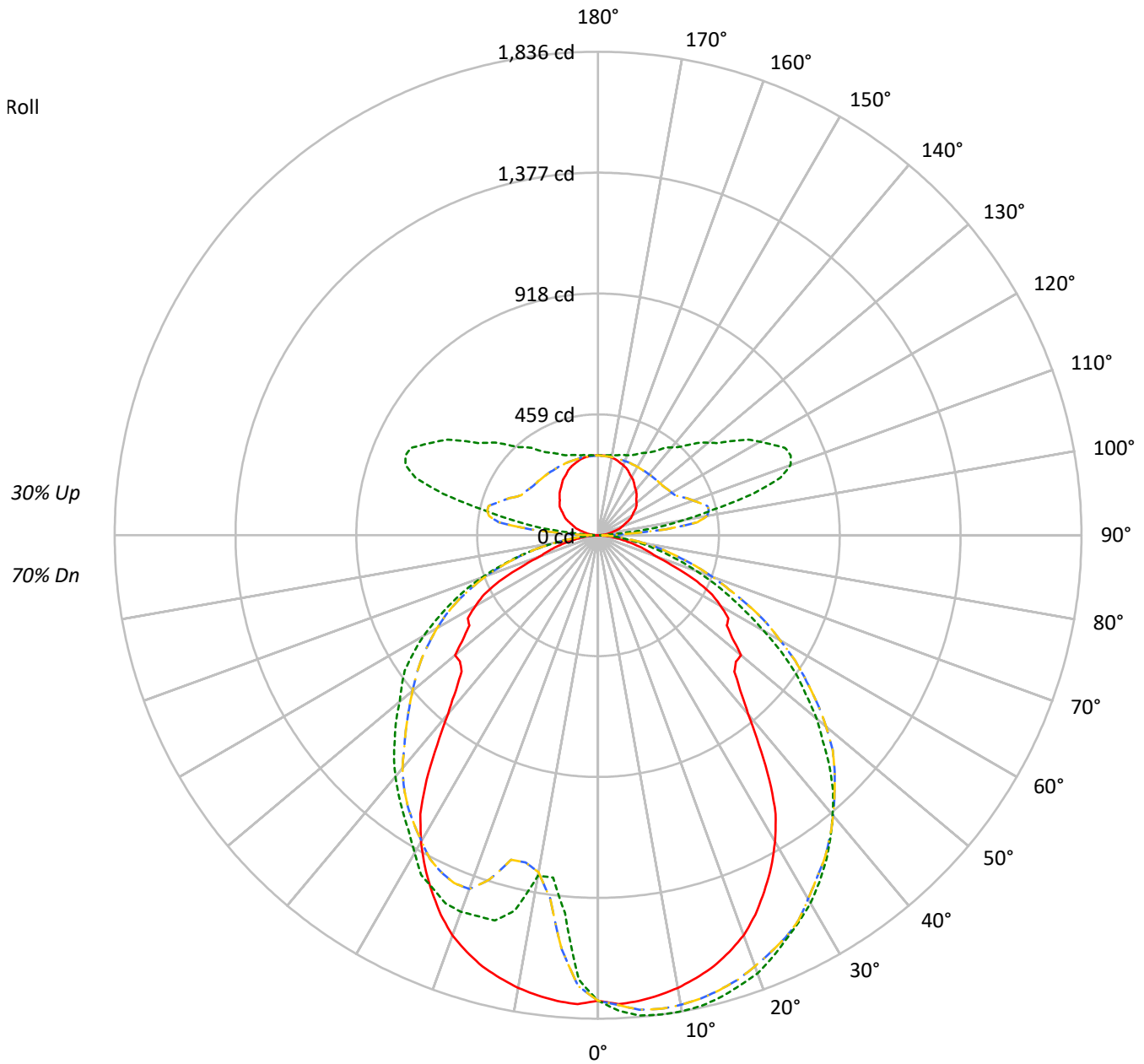
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6550.4 lumens
Efficiency: N/A
Efficacy: 117.0 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): 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°	16399	16399	16399	16399
5°	16503	16555	16503	13017
10°	16376	16307	16376	11659
15°	16179	15954	16179	13321
20°	15823	15535	15823	13349
25°	15111	14924	15111	13066
30°	14199	14418	14199	12446
35°	12639	13777	12639	11763
40°	10513	13022	10513	11247
45°	9375	12139	9375	10654
50°	9938	11085	9938	10059
55°	9324	9951	9324	9715
60°	9577	8452	9577	8898
65°	8642	6987	8642	7810
70°	5943	5567	5943	6545
75°	5155	4115	5155	4929
80°	4067	2721	4067	2961
85°	2219	1441	2219	1224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	2.4
10°-20°	453.0	6.9
20°-30°	700.2	10.7
30°-40°	835.9	12.8
40°-50°	840.8	12.8
50°-60°	731.6	11.2
60°-70°	518.7	7.9
70°-80°	274.4	4.2
80°-90°	69.5	1.1
90°-100°	147.9	2.3
100°-110°	388.9	5.9
110°-120°	403.2	6.2
120°-130°	323.4	4.9
130°-140°	253.8	3.9
140°-150°	194.8	3.0
150°-160°	140.3	2.1
160°-170°	85.8	1.3
170°-180°	29.0	0.4
0°-30°	1312.7	20.0
0°-40°	2148.5	32.8
0°-60°	3720.9	56.8
0°-90°	4583.5	70.0
90°-120°	939.9	14.3
90°-150°	1711.8	26.1
90°-180°	1967.0	30.0
0°-180°	6550.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1767	1767	1767	1767	1767	
5°	1776	1831	1776	1440	1776	168
15°	1695	1814	1695	1515	1695	477
25°	1493	1692	1493	1481	1493	686
35°	1135	1510	1135	1289	1135	702
45°	732	1244	732	1092	732	587
55°	597	918	597	896	597	548
65°	415	554	415	619	415	396
75°	157	262	157	314	157	165
85°	27	67	27	57	27	36
90°	2	8	2	8	2	3
95°	20	89	20	89	20	22
105°	70	609	70	609	70	74
115°	124	784	124	784	124	123
125°	173	624	173	624	173	154
135°	206	484	206	484	206	160
145°	239	393	239	393	239	150
155°	270	338	270	338	270	124
165°	292	315	292	315	292	82
175°	303	306	303	306	303	29
180°	303	303	303	303	303	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1782.4	1782.4	1792.4	1795.8	1795.8	1790.8	1785.7	1790.8	1805.8	1810.8	1809.1
5°	1775.6	1789.1	1807.4	1810.8	1814.2	1812.5	1809.1	1812.5	1829.2	1832.5	1834.2
7.5°	1762.3	1787.4	1810.8	1815.8	1820.8	1815.8	1814.2	1817.5	1834.2	1837.6	1837.6
10°	1745.6	1780.7	1807.4	1810.8	1815.8	1810.8	1810.8	1817.5	1834.2	1837.6	1839.3
12.5°	1722.2	1770.7	1795.8	1799.0	1805.8	1804.1	1802.4	1809.1	1825.8	1829.2	1829.2
15°	1695.4	1752.3	1775.6	1779.0	1790.8	1787.4	1787.4	1794.1	1812.5	1817.5	1815.8
17.5°	1658.7	1728.9	1755.6	1760.6	1769.0	1767.3	1769.0	1775.6	1792.4	1795.8	1797.4
20°	1616.9	1697.1	1728.9	1733.8	1742.2	1742.2	1742.2	1750.6	1767.3	1774.1	1774.1
22.5°	1560.0	1663.7	1697.1	1700.4	1710.4	1710.4	1713.8	1725.5	1740.6	1742.2	1742.2
25°	1493.1	1626.8	1655.3	1665.4	1675.4	1680.4	1685.4	1692.0	1697.1	1695.4	1697.1
27.5°	1422.9	1580.0	1616.9	1623.5	1636.9	1642.0	1648.6	1650.3	1651.9	1657.0	1653.6
30°	1344.3	1514.8	1570.0	1576.7	1598.5	1601.7	1595.1	1598.5	1606.8	1610.1	1613.5
32.5°	1255.6	1417.9	1521.5	1536.5	1556.7	1546.6	1544.9	1550.0	1563.3	1563.3	1566.7
35°	1135.3	1342.6	1476.4	1489.8	1504.8	1493.1	1499.8	1501.5	1509.9	1514.8	1513.2
37.5°	1003.2	1277.4	1429.5	1439.6	1451.3	1436.3	1446.3	1451.3	1458.0	1454.6	1454.6
40°	886.1	1175.4	1374.4	1381.1	1391.1	1379.4	1389.4	1392.8	1396.1	1392.8	1391.1
42.5°	799.2	1063.4	1315.9	1324.2	1317.5	1325.9	1329.3	1336.0	1330.9	1324.2	1324.2
45°	732.3	1033.3	1252.3	1262.4	1252.3	1265.7	1270.8	1270.8	1255.6	1252.3	1250.7
47.5°	710.6	973.1	1188.8	1188.8	1183.8	1200.5	1208.8	1197.2	1182.1	1177.1	1177.1
50°	708.9	906.2	1101.8	1095.2	1118.6	1138.7	1130.3	1118.6	1106.9	1088.5	1088.5
52.5°	643.7	824.3	989.9	1014.9	1051.7	1063.4	1050.0	1038.3	1018.2	1009.9	1003.2
55°	596.9	739.0	887.8	938.0	976.4	991.5	966.5	954.7	924.7	919.6	916.3
57.5°	586.9	615.3	794.3	857.8	904.5	902.9	887.8	866.1	841.0	836.0	834.4
60°	538.4	444.8	693.9	769.2	817.6	812.6	799.2	779.1	755.7	752.4	749.1
62.5°	488.3	322.7	580.2	665.4	734.0	732.3	720.6	690.5	673.8	665.4	658.8
65°	414.7	270.9	413.0	553.5	652.1	655.4	630.3	608.6	590.2	580.2	578.5
67.5°	316.0	220.7	279.2	461.5	573.5	570.2	538.4	528.4	505.0	499.9	489.9
70°	234.1	147.1	193.9	374.6	496.6	488.3	463.2	451.4	429.7	418.0	411.3
72.5°	193.9	118.8	142.1	291.0	418.0	407.9	386.2	372.9	354.5	344.4	337.7
75°	157.2	125.4	108.7	215.7	339.4	332.8	312.7	299.3	284.2	270.9	272.5
77.5°	115.4	117.1	86.9	158.9	269.2	259.2	247.5	230.7	224.1	210.6	210.6
80°	86.9	92.0	65.2	108.7	193.9	193.9	184.0	172.2	160.6	153.8	153.8
82.5°	58.5	58.5	48.5	68.6	132.1	127.1	120.3	117.1	110.4	107.0	107.0
85°	26.8	33.4	30.1	41.8	71.9	75.3	75.3	71.9	70.2	66.9	68.6
87.5°	8.4	15.0	18.4	23.4	36.8	38.4	40.1	40.1	40.1	41.8	41.8
90°	2.1	3.7	5.3	5.7	9.0	13.3	15.5	13.7	10.3	7.7	7.7
92.5°	8.1	21.9	35.9	39.3	55.2	76.5	87.1	76.4	54.8	38.7	37.1
95°	19.6	44.9	70.2	76.6	135.9	215.1	254.7	227.2	172.4	131.3	126.7
97.5°	33.8	56.1	78.4	84.1	183.1	315.2	381.2	363.9	329.2	303.2	294.3
100°	44.8	65.0	85.4	90.4	200.3	346.8	420.1	421.4	424.0	425.8	415.3
102.5°	54.1	73.1	92.0	96.7	208.2	356.8	431.1	453.2	497.4	530.5	521.4
105°	70.0	86.1	102.1	106.1	214.0	358.0	429.9	479.4	578.4	652.7	647.8
107.5°	86.4	101.3	116.2	119.9	215.1	342.0	405.5	474.5	612.7	716.2	717.4
110°	97.3	110.8	124.3	127.6	213.5	327.9	385.1	462.3	616.7	732.5	737.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	108.1	120.9	133.8	137.0	213.5	315.6	366.5	445.6	603.6	722.1	729.9
115°	124.4	136.2	148.1	151.1	215.5	301.3	344.3	420.4	572.6	686.9	697.6
117.5°	140.5	151.3	162.0	164.7	219.5	292.5	329.1	397.8	535.1	638.1	650.1
120°	149.9	160.1	170.1	172.7	222.8	289.6	323.0	385.7	511.3	605.4	617.1
122.5°	159.1	169.3	179.5	182.1	227.4	288.0	318.2	374.7	487.9	572.6	584.1
125°	173.1	182.4	191.7	194.0	233.8	286.7	313.2	361.2	457.2	529.3	539.8
127.5°	184.5	193.9	203.3	205.7	240.1	286.0	308.9	350.1	432.5	494.4	503.3
130°	190.6	200.8	210.8	213.4	244.7	286.4	307.3	344.0	417.4	472.5	480.7
132.5°	196.9	207.1	217.2	219.7	248.5	286.7	305.9	338.7	404.4	453.7	461.1
135°	206.3	215.5	224.8	227.0	252.5	286.4	303.4	330.9	385.9	427.2	433.5
137.5°	215.9	225.0	234.2	236.4	258.7	288.2	303.0	326.2	372.8	407.6	412.9
140°	223.8	232.2	240.7	242.8	262.3	288.5	301.5	321.7	361.9	392.0	396.9
142.5°	229.9	237.7	245.4	247.4	265.5	289.5	301.5	319.2	354.5	381.0	385.1
145°	239.3	246.0	252.8	254.5	269.5	289.6	299.6	314.0	342.8	364.5	367.6
147.5°	248.7	255.3	261.8	263.5	275.6	291.6	299.6	310.9	333.6	350.6	353.3
150°	254.7	260.6	266.7	268.1	278.6	292.5	299.6	309.1	328.3	342.7	344.9
152.5°	261.0	265.6	270.1	271.2	280.7	293.2	299.6	307.8	324.2	336.4	338.0
155°	270.4	273.8	277.1	277.9	285.1	294.7	299.6	306.1	319.1	328.9	330.0
157.5°	277.3	280.6	283.9	284.6	289.6	296.2	299.6	304.6	314.8	322.4	323.2
160°	282.1	284.5	287.1	287.7	291.7	296.9	299.6	303.9	312.6	319.1	319.5
162.5°	286.7	288.6	290.5	291.0	293.8	297.7	299.6	303.2	310.5	316.1	316.5
165°	291.9	293.5	295.3	295.7	297.0	298.7	299.6	302.1	307.4	311.3	311.7
167.5°	296.5	297.3	298.1	298.3	299.4	300.8	301.5	303.3	306.8	309.3	309.5
170°	299.6	300.4	301.1	301.3	301.4	301.5	301.5	303.3	306.8	309.3	309.3
172.5°	301.1	301.3	301.5	301.5	301.5	301.5	301.5	302.9	305.6	307.7	307.5
175°	303.4	303.4	303.4	303.4	302.8	301.9	301.5	302.4	304.2	305.5	305.5
177.5°	303.4	303.4	303.4	303.4	302.9	302.3	302.0	302.7	304.1	305.1	304.9
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1812.5	1807.4	1812.5	1809.1	1810.8	1805.8	1790.8	1785.7	1790.8	1795.8	1795.8
5°	1834.2	1830.9	1834.2	1834.2	1832.5	1829.2	1812.5	1809.1	1812.5	1814.2	1810.8
7.5°	1840.8	1835.9	1840.8	1837.6	1837.6	1834.2	1817.5	1814.2	1815.8	1820.8	1815.8
10°	1840.8	1835.9	1840.8	1839.3	1837.6	1834.2	1817.5	1810.8	1810.8	1815.8	1810.8
12.5°	1832.5	1829.2	1832.5	1829.2	1829.2	1825.8	1809.1	1802.4	1804.1	1805.8	1799.0
15°	1819.1	1814.2	1819.1	1815.8	1817.5	1812.5	1794.1	1787.4	1787.4	1790.8	1779.0
17.5°	1799.0	1792.4	1799.0	1797.4	1795.8	1792.4	1775.6	1769.0	1767.3	1769.0	1760.6
20°	1775.6	1770.7	1775.6	1774.1	1774.1	1767.3	1750.6	1742.2	1742.2	1742.2	1733.8
22.5°	1738.9	1733.8	1738.9	1742.2	1742.2	1740.6	1725.5	1713.8	1710.4	1710.4	1700.4
25°	1697.1	1692.0	1697.1	1697.1	1695.4	1697.1	1692.0	1685.4	1680.4	1675.4	1665.4
27.5°	1657.0	1653.6	1657.0	1653.6	1657.0	1651.9	1650.3	1648.6	1642.0	1636.9	1623.5
30°	1616.9	1613.5	1616.9	1613.5	1610.1	1606.8	1598.5	1595.1	1601.7	1598.5	1576.7
32.5°	1566.7	1563.3	1566.7	1566.7	1563.3	1563.3	1550.0	1544.9	1546.6	1556.7	1536.5
35°	1514.8	1509.9	1514.8	1513.2	1514.8	1509.9	1501.5	1499.8	1493.1	1504.8	1489.8
37.5°	1454.6	1449.6	1454.6	1454.6	1454.6	1458.0	1451.3	1446.3	1436.3	1451.3	1439.6
40°	1392.8	1386.1	1392.8	1391.1	1392.8	1396.1	1392.8	1389.4	1379.4	1391.1	1381.1
42.5°	1322.5	1320.9	1322.5	1324.2	1324.2	1330.9	1336.0	1329.3	1325.9	1317.5	1324.2
45°	1247.4	1244.0	1247.4	1250.7	1252.3	1255.6	1270.8	1270.8	1265.7	1252.3	1262.4
47.5°	1167.0	1158.7	1167.0	1177.1	1177.1	1182.1	1197.2	1208.8	1200.5	1183.8	1188.8
50°	1081.8	1083.4	1081.8	1088.5	1088.5	1106.9	1118.6	1130.3	1138.7	1118.6	1095.2
52.5°	998.2	996.5	998.2	1003.2	1009.9	1018.2	1038.3	1050.0	1063.4	1051.7	1014.9
55°	914.6	918.0	914.6	916.3	919.6	924.7	954.7	966.5	991.5	976.4	938.0
57.5°	831.0	826.0	831.0	834.4	836.0	841.0	866.1	887.8	902.9	904.5	857.8
60°	734.0	727.4	734.0	749.1	752.4	755.7	779.1	799.2	812.6	817.6	769.2
62.5°	648.7	637.1	648.7	658.8	665.4	673.8	690.5	720.6	732.3	734.0	665.4
65°	558.4	553.5	558.4	578.5	580.2	590.2	608.6	630.3	655.4	652.1	553.5
67.5°	476.5	476.5	476.5	489.9	499.9	505.0	528.4	538.4	570.2	573.5	461.5
70°	401.3	399.6	401.3	411.3	418.0	429.7	451.4	463.2	488.3	496.6	374.6
72.5°	329.4	327.7	329.4	337.7	344.4	354.5	372.9	386.2	407.9	418.0	291.0
75°	265.9	262.5	265.9	272.5	270.9	284.2	299.3	312.7	332.8	339.4	215.7
77.5°	204.0	204.0	204.0	210.6	210.6	224.1	230.7	247.5	259.2	269.2	158.9
80°	152.2	150.5	152.2	153.8	153.8	160.6	172.2	184.0	193.9	193.9	108.7
82.5°	107.0	103.6	107.0	107.0	107.0	110.4	117.1	120.3	127.1	132.1	68.6
85°	66.9	66.9	66.9	68.6	66.9	70.2	71.9	75.3	75.3	71.9	41.8
87.5°	43.5	41.8	43.5	41.8	41.8	40.1	40.1	40.1	38.4	36.8	23.4
90°	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3	9.0	5.7
92.5°	31.0	24.8	31.0	37.1	38.7	54.8	76.4	87.1	76.5	55.2	39.3
95°	108.0	89.4	108.0	126.7	131.3	172.4	227.2	254.7	215.1	135.9	76.6
97.5°	258.9	223.4	258.9	294.3	303.2	329.2	363.9	381.2	315.2	183.1	84.1
100°	373.0	330.7	373.0	415.3	425.8	424.0	421.4	420.1	346.8	200.3	90.4
102.5°	485.2	449.0	485.2	521.4	530.5	497.4	453.2	431.1	356.8	208.2	96.7
105°	628.4	608.9	628.4	647.8	652.7	578.4	479.4	429.9	358.0	214.0	106.1
107.5°	722.0	726.8	722.0	717.4	716.2	612.7	474.5	405.5	342.0	215.1	119.9
110°	757.8	778.0	757.8	737.5	732.5	616.7	462.3	385.1	327.9	213.5	127.6



TEST NUMBER: P934518

CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	761.1	792.2	761.1	729.9	722.1	603.6	445.6	366.5	315.6	213.5	137.0
115°	740.8	784.0	740.8	697.6	686.9	572.6	420.4	344.3	301.3	215.5	151.1
117.5°	698.0	745.9	698.0	650.1	638.1	535.1	397.8	329.1	292.5	219.5	164.7
120°	663.5	710.1	663.5	617.1	605.4	511.3	385.7	323.0	289.6	222.8	172.7
122.5°	630.0	675.9	630.0	584.1	572.6	487.9	374.7	318.2	288.0	227.4	182.1
125°	582.0	624.3	582.0	539.8	529.3	457.2	361.2	313.2	286.7	233.8	194.0
127.5°	539.0	574.6	539.0	503.3	494.4	432.5	350.1	308.9	286.0	240.1	205.7
130°	513.7	546.6	513.7	480.7	472.5	417.4	344.0	307.3	286.4	244.7	213.4
132.5°	490.5	520.1	490.5	461.1	453.7	404.4	338.7	305.9	286.7	248.5	219.7
135°	459.0	484.4	459.0	433.5	427.2	385.9	330.9	303.4	286.4	252.5	227.0
137.5°	433.6	454.5	433.6	412.9	407.6	372.8	326.2	303.0	288.2	258.7	236.4
140°	416.3	435.8	416.3	396.9	392.0	361.9	321.7	301.5	288.5	262.3	242.8
142.5°	401.9	418.7	401.9	385.1	381.0	354.5	319.2	301.5	289.5	265.5	247.4
145°	380.4	393.0	380.4	367.6	364.5	342.8	314.0	299.6	289.6	269.5	254.5
147.5°	363.8	374.3	363.8	353.3	350.6	333.6	310.9	299.6	291.6	275.6	263.5
150°	353.4	361.9	353.4	344.9	342.7	328.3	309.1	299.6	292.5	278.6	268.1
152.5°	344.4	350.8	344.4	338.0	336.4	324.2	307.8	299.6	293.2	280.7	271.2
155°	334.2	338.5	334.2	330.0	328.9	319.1	306.1	299.6	294.7	285.1	277.9
157.5°	326.1	329.1	326.1	323.2	322.4	314.8	304.6	299.6	296.2	289.6	284.6
160°	321.3	323.0	321.3	319.5	319.1	312.6	303.9	299.6	296.9	291.7	287.7
162.5°	318.1	319.7	318.1	316.5	316.1	310.5	303.2	299.6	297.7	293.8	291.0
165°	313.5	315.3	313.5	311.7	311.3	307.4	302.1	299.6	298.7	297.0	295.7
167.5°	310.2	310.9	310.2	309.5	309.3	306.8	303.3	301.5	300.8	299.4	298.3
170°	309.3	309.3	309.3	309.3	309.3	306.8	303.3	301.5	301.5	301.4	301.3
172.5°	306.9	306.3	306.9	307.5	307.7	305.6	302.9	301.5	301.5	301.5	301.5
175°	305.5	305.5	305.5	305.5	305.5	304.2	302.4	301.5	301.9	302.8	303.4
177.5°	304.2	303.4	304.2	304.9	305.1	304.1	302.7	302.0	302.3	302.9	303.4
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934518
 CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1792.4	1782.4	1782.4	1765.7	1758.9	1753.9	1745.6	1720.5	1713.8	1707.2	1717.1
5°	1807.4	1789.1	1775.6	1745.6	1720.5	1710.4	1678.7	1618.5	1578.4	1548.3	1531.6
7.5°	1810.8	1787.4	1762.3	1715.5	1655.3	1628.5	1531.6	1421.2	1391.1	1364.3	1347.6
10°	1807.4	1780.7	1745.6	1675.4	1533.3	1486.4	1389.4	1317.5	1299.1	1294.2	1299.1
12.5°	1795.8	1770.7	1722.2	1605.1	1406.1	1374.4	1317.5	1275.7	1272.4	1280.7	1325.9
15°	1775.6	1752.3	1695.4	1511.5	1336.0	1312.6	1272.4	1257.3	1275.7	1334.3	1469.7
17.5°	1755.6	1728.9	1658.7	1419.6	1282.4	1265.7	1237.3	1267.4	1371.0	1449.6	1494.7
20°	1728.9	1697.1	1616.9	1352.7	1244.0	1229.0	1215.5	1351.0	1429.5	1458.0	1483.1
22.5°	1697.1	1663.7	1560.0	1305.8	1203.9	1192.1	1200.5	1397.8	1429.5	1449.6	1471.3
25°	1655.3	1626.8	1493.1	1269.1	1172.1	1158.7	1190.4	1392.8	1411.2	1416.2	1459.7
27.5°	1616.9	1580.0	1422.9	1235.6	1133.6	1128.6	1198.8	1371.0	1384.4	1389.4	1436.3
30°	1570.0	1514.8	1344.3	1200.5	1093.5	1091.8	1200.5	1344.3	1340.9	1354.4	1401.2
32.5°	1521.5	1417.9	1255.6	1157.0	1055.1	1053.4	1188.8	1304.2	1300.8	1319.2	1354.4
35°	1476.4	1342.6	1135.3	1106.9	1006.6	1008.3	1160.4	1257.3	1259.0	1275.7	1297.4
37.5°	1429.5	1277.4	1003.2	1051.7	959.7	959.7	1121.9	1213.9	1210.5	1215.5	1245.7
40°	1374.4	1175.4	886.1	979.8	916.3	911.2	1075.1	1167.0	1155.4	1153.7	1195.5
42.5°	1315.9	1063.4	799.2	884.5	866.1	859.5	1018.2	1110.2	1088.5	1093.5	1147.0
45°	1252.3	1033.3	732.3	747.4	814.3	809.3	956.4	1045.0	1030.0	1043.3	1098.6
47.5°	1188.8	973.1	710.6	620.4	759.1	757.4	887.8	981.5	973.1	986.5	1045.0
50°	1101.8	906.2	708.9	531.7	697.2	704.0	805.9	919.6	919.6	931.3	993.1
52.5°	989.9	824.3	643.7	481.6	625.3	645.4	734.0	866.1	869.4	881.2	936.3
55°	887.8	739.0	596.9	443.1	540.0	583.5	663.8	811.0	817.6	829.3	879.5
57.5°	794.3	615.3	586.9	398.0	461.5	503.3	601.9	757.4	760.8	770.8	819.2
60°	693.9	444.8	538.4	349.5	392.9	424.6	545.1	693.9	705.6	712.2	754.0
62.5°	580.2	322.7	488.3	316.0	359.4	366.2	498.2	633.7	648.7	653.8	678.9
65°	413.0	270.9	414.7	287.6	324.4	326.0	448.1	571.9	585.2	593.6	612.0
67.5°	279.2	220.7	316.0	260.8	297.6	299.3	399.6	499.9	518.3	525.0	536.7
70°	193.9	147.1	234.1	232.4	267.6	270.9	347.8	434.7	451.4	456.5	463.2
72.5°	142.1	118.8	193.9	209.0	235.7	239.1	294.2	361.1	377.9	382.8	386.2
75°	108.7	125.4	157.2	182.3	200.7	202.3	240.8	294.2	306.0	309.3	311.0
77.5°	86.9	117.1	115.4	147.1	163.8	160.6	188.9	227.4	237.4	237.4	237.4
80°	65.2	92.0	86.9	105.3	120.3	117.1	135.5	162.2	165.5	168.8	167.2
82.5°	48.5	58.5	58.5	66.9	80.2	76.9	90.3	105.3	105.3	105.3	108.7
85°	30.1	33.4	26.8	35.1	45.2	43.5	50.2	56.8	58.5	58.5	55.1
87.5°	18.4	15.0	8.4	13.3	20.1	20.1	23.4	25.1	23.4	23.4	23.4
90°	5.3	3.7	2.1	3.7	5.3	5.7	9.0	13.3	15.5	13.7	10.3
92.5°	35.9	21.9	8.1	21.9	35.9	39.3	55.2	76.5	87.1	76.4	54.8
95°	70.2	44.9	19.6	44.9	70.2	76.6	135.9	215.1	254.7	227.2	172.4
97.5°	78.4	56.1	33.8	56.1	78.4	84.1	183.1	315.2	381.2	363.9	329.2
100°	85.4	65.0	44.8	65.0	85.4	90.4	200.3	346.8	420.1	421.4	424.0
102.5°	92.0	73.1	54.1	73.1	92.0	96.7	208.2	356.8	431.1	453.2	497.4
105°	102.1	86.1	70.0	86.1	102.1	106.1	214.0	358.0	429.9	479.4	578.4
107.5°	116.2	101.3	86.4	101.3	116.2	119.9	215.1	342.0	405.5	474.5	612.7
110°	124.3	110.8	97.3	110.8	124.3	127.6	213.5	327.9	385.1	462.3	616.7



TEST NUMBER: P934518

CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	133.8	120.9	108.1	120.9	133.8	137.0	213.5	315.6	366.5	445.6	603.6
115°	148.1	136.2	124.4	136.2	148.1	151.1	215.5	301.3	344.3	420.4	572.6
117.5°	162.0	151.3	140.5	151.3	162.0	164.7	219.5	292.5	329.1	397.8	535.1
120°	170.1	160.1	149.9	160.1	170.1	172.7	222.8	289.6	323.0	385.7	511.3
122.5°	179.5	169.3	159.1	169.3	179.5	182.1	227.4	288.0	318.2	374.7	487.9
125°	191.7	182.4	173.1	182.4	191.7	194.0	233.8	286.7	313.2	361.2	457.2
127.5°	203.3	193.9	184.5	193.9	203.3	205.7	240.1	286.0	308.9	350.1	432.5
130°	210.8	200.8	190.6	200.8	210.8	213.4	244.7	286.4	307.3	344.0	417.4
132.5°	217.2	207.1	196.9	207.1	217.2	219.7	248.5	286.7	305.9	338.7	404.4
135°	224.8	215.5	206.3	215.5	224.8	227.0	252.5	286.4	303.4	330.9	385.9
137.5°	234.2	225.0	215.9	225.0	234.2	236.4	258.7	288.2	303.0	326.2	372.8
140°	240.7	232.2	223.8	232.2	240.7	242.8	262.3	288.5	301.5	321.7	361.9
142.5°	245.4	237.7	229.9	237.7	245.4	247.4	265.5	289.5	301.5	319.2	354.5
145°	252.8	246.0	239.3	246.0	252.8	254.5	269.5	289.6	299.6	314.0	342.8
147.5°	261.8	255.3	248.7	255.3	261.8	263.5	275.6	291.6	299.6	310.9	333.6
150°	266.7	260.6	254.7	260.6	266.7	268.1	278.6	292.5	299.6	309.1	328.3
152.5°	270.1	265.6	261.0	265.6	270.1	271.2	280.7	293.2	299.6	307.8	324.2
155°	277.1	273.8	270.4	273.8	277.1	277.9	285.1	294.7	299.6	306.1	319.1
157.5°	283.9	280.6	277.3	280.6	283.9	284.6	289.6	296.2	299.6	304.6	314.8
160°	287.1	284.5	282.1	284.5	287.1	287.7	291.7	296.9	299.6	303.9	312.6
162.5°	290.5	288.6	286.7	288.6	290.5	291.0	293.8	297.7	299.6	303.2	310.5
165°	295.3	293.5	291.9	293.5	295.3	295.7	297.0	298.7	299.6	302.1	307.4
167.5°	298.1	297.3	296.5	297.3	298.1	298.3	299.4	300.8	301.5	303.3	306.8
170°	301.1	300.4	299.6	300.4	301.1	301.3	301.4	301.5	301.5	303.3	306.8
172.5°	301.5	301.3	301.1	301.3	301.5	301.5	301.5	301.5	301.5	302.9	305.6
175°	303.4	303.4	303.4	303.4	303.4	303.4	302.8	301.9	301.5	302.4	304.2
177.5°	303.4	303.4	303.4	303.4	303.4	303.4	302.9	302.3	302.0	302.7	304.1
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934518
 CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1705.5	1700.4	1707.2	1688.7	1707.2	1700.4	1705.5	1717.1	1707.2	1713.8	1720.5
5°	1496.4	1488.1	1461.4	1439.6	1461.4	1488.1	1496.4	1531.6	1548.3	1578.4	1618.5
7.5°	1337.7	1330.9	1324.2	1310.9	1324.2	1330.9	1337.7	1347.6	1364.3	1391.1	1421.2
10°	1302.5	1304.2	1314.2	1312.6	1314.2	1304.2	1302.5	1299.1	1294.2	1299.1	1317.5
12.5°	1392.8	1407.8	1463.0	1459.7	1463.0	1407.8	1392.8	1325.9	1280.7	1272.4	1275.7
15°	1496.4	1501.5	1513.2	1514.8	1513.2	1501.5	1496.4	1469.7	1334.3	1275.7	1257.3
17.5°	1506.5	1508.2	1516.5	1516.5	1516.5	1508.2	1506.5	1494.7	1449.6	1371.0	1267.4
20°	1498.1	1501.5	1518.2	1521.5	1518.2	1501.5	1498.1	1483.1	1458.0	1429.5	1351.0
22.5°	1494.7	1501.5	1514.8	1513.2	1514.8	1501.5	1494.7	1471.3	1449.6	1429.5	1397.8
25°	1478.0	1478.0	1479.7	1481.4	1479.7	1478.0	1478.0	1459.7	1416.2	1411.2	1392.8
27.5°	1443.0	1446.3	1456.3	1454.6	1456.3	1446.3	1443.0	1436.3	1389.4	1384.4	1371.0
30°	1411.2	1407.8	1399.5	1392.8	1399.5	1407.8	1411.2	1401.2	1354.4	1340.9	1344.3
32.5°	1357.7	1349.3	1340.9	1336.0	1340.9	1349.3	1357.7	1354.4	1319.2	1300.8	1304.2
35°	1294.2	1295.8	1294.2	1289.1	1294.2	1295.8	1294.2	1297.4	1275.7	1259.0	1257.3
37.5°	1249.0	1252.3	1250.7	1244.0	1250.7	1252.3	1249.0	1245.7	1215.5	1210.5	1213.9
40°	1202.2	1203.9	1202.2	1197.2	1202.2	1203.9	1202.2	1195.5	1153.7	1155.4	1167.0
42.5°	1157.0	1155.4	1150.3	1147.0	1150.3	1155.4	1157.0	1147.0	1093.5	1088.5	1110.2
45°	1105.2	1106.9	1096.9	1091.8	1096.9	1106.9	1105.2	1098.6	1043.3	1030.0	1045.0
47.5°	1053.4	1053.4	1045.0	1040.0	1045.0	1053.4	1053.4	1045.0	986.5	973.1	981.5
50°	998.2	996.5	984.8	983.2	984.8	996.5	998.2	993.1	931.3	919.6	919.6
52.5°	934.6	934.6	936.3	939.7	936.3	934.6	934.6	936.3	881.2	869.4	866.1
55°	879.5	881.2	892.9	896.2	892.9	881.2	879.5	879.5	829.3	817.6	811.0
57.5°	822.6	822.6	831.0	831.0	831.0	822.6	822.6	819.2	770.8	760.8	757.4
60°	757.4	760.8	767.5	765.8	767.5	760.8	757.4	754.0	712.2	705.6	693.9
62.5°	688.8	692.2	693.9	690.5	693.9	692.2	688.8	678.9	653.8	648.7	633.7
65°	617.0	620.4	621.9	618.7	621.9	620.4	617.0	612.0	593.6	585.2	571.9
67.5°	543.4	541.7	540.0	546.8	540.0	541.7	543.4	536.7	525.0	518.3	499.9
70°	468.1	468.1	466.5	469.8	466.5	468.1	468.1	463.2	456.5	451.4	434.7
72.5°	387.9	386.2	392.9	387.9	392.9	386.2	387.9	386.2	382.8	377.9	361.1
75°	309.3	312.7	309.3	314.4	309.3	312.7	309.3	311.0	309.3	306.0	294.2
77.5°	235.7	239.1	235.7	235.7	235.7	239.1	235.7	237.4	237.4	237.4	227.4
80°	167.2	165.5	165.5	163.8	165.5	165.5	167.2	167.2	168.8	165.5	162.2
82.5°	107.0	105.3	105.3	108.7	105.3	105.3	107.0	108.7	105.3	105.3	105.3
85°	58.5	60.2	56.8	56.8	56.8	60.2	58.5	55.1	58.5	58.5	56.8
87.5°	21.7	20.1	20.1	20.1	20.1	20.1	21.7	23.4	23.4	23.4	25.1
90°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3
92.5°	38.7	37.1	31.0	24.8	31.0	37.1	38.7	54.8	76.4	87.1	76.5
95°	131.3	126.7	108.0	89.4	108.0	126.7	131.3	172.4	227.2	254.7	215.1
97.5°	303.2	294.3	258.9	223.4	258.9	294.3	303.2	329.2	363.9	381.2	315.2
100°	425.8	415.3	373.0	330.7	373.0	415.3	425.8	424.0	421.4	420.1	346.8
102.5°	530.5	521.4	485.2	449.0	485.2	521.4	530.5	497.4	453.2	431.1	356.8
105°	652.7	647.8	628.4	608.9	628.4	647.8	652.7	578.4	479.4	429.9	358.0
107.5°	716.2	717.4	722.0	726.8	722.0	717.4	716.2	612.7	474.5	405.5	342.0
110°	732.5	737.5	757.8	778.0	757.8	737.5	732.5	616.7	462.3	385.1	327.9



TEST NUMBER: P934518

CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	722.1	729.9	761.1	792.2	761.1	729.9	722.1	603.6	445.6	366.5	315.6
115°	686.9	697.6	740.8	784.0	740.8	697.6	686.9	572.6	420.4	344.3	301.3
117.5°	638.1	650.1	698.0	745.9	698.0	650.1	638.1	535.1	397.8	329.1	292.5
120°	605.4	617.1	663.5	710.1	663.5	617.1	605.4	511.3	385.7	323.0	289.6
122.5°	572.6	584.1	630.0	675.9	630.0	584.1	572.6	487.9	374.7	318.2	288.0
125°	529.3	539.8	582.0	624.3	582.0	539.8	529.3	457.2	361.2	313.2	286.7
127.5°	494.4	503.3	539.0	574.6	539.0	503.3	494.4	432.5	350.1	308.9	286.0
130°	472.5	480.7	513.7	546.6	513.7	480.7	472.5	417.4	344.0	307.3	286.4
132.5°	453.7	461.1	490.5	520.1	490.5	461.1	453.7	404.4	338.7	305.9	286.7
135°	427.2	433.5	459.0	484.4	459.0	433.5	427.2	385.9	330.9	303.4	286.4
137.5°	407.6	412.9	433.6	454.5	433.6	412.9	407.6	372.8	326.2	303.0	288.2
140°	392.0	396.9	416.3	435.8	416.3	396.9	392.0	361.9	321.7	301.5	288.5
142.5°	381.0	385.1	401.9	418.7	401.9	385.1	381.0	354.5	319.2	301.5	289.5
145°	364.5	367.6	380.4	393.0	380.4	367.6	364.5	342.8	314.0	299.6	289.6
147.5°	350.6	353.3	363.8	374.3	363.8	353.3	350.6	333.6	310.9	299.6	291.6
150°	342.7	344.9	353.4	361.9	353.4	344.9	342.7	328.3	309.1	299.6	292.5
152.5°	336.4	338.0	344.4	350.8	344.4	338.0	336.4	324.2	307.8	299.6	293.2
155°	328.9	330.0	334.2	338.5	334.2	330.0	328.9	319.1	306.1	299.6	294.7
157.5°	322.4	323.2	326.1	329.1	326.1	323.2	322.4	314.8	304.6	299.6	296.2
160°	319.1	319.5	321.3	323.0	321.3	319.5	319.1	312.6	303.9	299.6	296.9
162.5°	316.1	316.5	318.1	319.7	318.1	316.5	316.1	310.5	303.2	299.6	297.7
165°	311.3	311.7	313.5	315.3	313.5	311.7	311.3	307.4	302.1	299.6	298.7
167.5°	309.3	309.5	310.2	310.9	310.2	309.5	309.3	306.8	303.3	301.5	300.8
170°	309.3	309.3	309.3	309.3	309.3	309.3	309.3	306.8	303.3	301.5	301.5
172.5°	307.7	307.5	306.9	306.3	306.9	307.5	307.7	305.6	302.9	301.5	301.5
175°	305.5	305.5	305.5	305.5	305.5	305.5	305.5	304.2	302.4	301.5	301.9
177.5°	305.1	304.9	304.2	303.4	304.2	304.9	305.1	304.1	302.7	302.0	302.3
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934518
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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1745.6	1753.9	1758.9	1765.7	1782.4
5°	1678.7	1710.4	1720.5	1745.6	1775.6
7.5°	1531.6	1628.5	1655.3	1715.5	1762.3
10°	1389.4	1486.4	1533.3	1675.4	1745.6
12.5°	1317.5	1374.4	1406.1	1605.1	1722.2
15°	1272.4	1312.6	1336.0	1511.5	1695.4
17.5°	1237.3	1265.7	1282.4	1419.6	1658.7
20°	1215.5	1229.0	1244.0	1352.7	1616.9
22.5°	1200.5	1192.1	1203.9	1305.8	1560.0
25°	1190.4	1158.7	1172.1	1269.1	1493.1
27.5°	1198.8	1128.6	1133.6	1235.6	1422.9
30°	1200.5	1091.8	1093.5	1200.5	1344.3
32.5°	1188.8	1053.4	1055.1	1157.0	1255.6
35°	1160.4	1008.3	1006.6	1106.9	1135.3
37.5°	1121.9	959.7	959.7	1051.7	1003.2
40°	1075.1	911.2	916.3	979.8	886.1
42.5°	1018.2	859.5	866.1	884.5	799.2
45°	956.4	809.3	814.3	747.4	732.3
47.5°	887.8	757.4	759.1	620.4	710.6
50°	805.9	704.0	697.2	531.7	708.9
52.5°	734.0	645.4	625.3	481.6	643.7
55°	663.8	583.5	540.0	443.1	596.9
57.5°	601.9	503.3	461.5	398.0	586.9
60°	545.1	424.6	392.9	349.5	538.4
62.5°	498.2	366.2	359.4	316.0	488.3
65°	448.1	326.0	324.4	287.6	414.7
67.5°	399.6	299.3	297.6	260.8	316.0
70°	347.8	270.9	267.6	232.4	234.1
72.5°	294.2	239.1	235.7	209.0	193.9
75°	240.8	202.3	200.7	182.3	157.2
77.5°	188.9	160.6	163.8	147.1	115.4
80°	135.5	117.1	120.3	105.3	86.9
82.5°	90.3	76.9	80.2	66.9	58.5
85°	50.2	43.5	45.2	35.1	26.8
87.5°	23.4	20.1	20.1	13.3	8.4
90°	9.0	5.7	5.3	3.7	2.1
92.5°	55.2	39.3	35.9	21.9	8.1
95°	135.9	76.6	70.2	44.9	19.6
97.5°	183.1	84.1	78.4	56.1	33.8
100°	200.3	90.4	85.4	65.0	44.8
102.5°	208.2	96.7	92.0	73.1	54.1
105°	214.0	106.1	102.1	86.1	70.0
107.5°	215.1	119.9	116.2	101.3	86.4
110°	213.5	127.6	124.3	110.8	97.3



TEST NUMBER: P934518

CATALOG NUMBER: SQ4-FA-050U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	213.5	137.0	133.8	120.9	108.1
115°	215.5	151.1	148.1	136.2	124.4
117.5°	219.5	164.7	162.0	151.3	140.5
120°	222.8	172.7	170.1	160.1	149.9
122.5°	227.4	182.1	179.5	169.3	159.1
125°	233.8	194.0	191.7	182.4	173.1
127.5°	240.1	205.7	203.3	193.9	184.5
130°	244.7	213.4	210.8	200.8	190.6
132.5°	248.5	219.7	217.2	207.1	196.9
135°	252.5	227.0	224.8	215.5	206.3
137.5°	258.7	236.4	234.2	225.0	215.9
140°	262.3	242.8	240.7	232.2	223.8
142.5°	265.5	247.4	245.4	237.7	229.9
145°	269.5	254.5	252.8	246.0	239.3
147.5°	275.6	263.5	261.8	255.3	248.7
150°	278.6	268.1	266.7	260.6	254.7
152.5°	280.7	271.2	270.1	265.6	261.0
155°	285.1	277.9	277.1	273.8	270.4
157.5°	289.6	284.6	283.9	280.6	277.3
160°	291.7	287.7	287.1	284.5	282.1
162.5°	293.8	291.0	290.5	288.6	286.7
165°	297.0	295.7	295.3	293.5	291.9
167.5°	299.4	298.3	298.1	297.3	296.5
170°	301.4	301.3	301.1	300.4	299.6
172.5°	301.5	301.5	301.5	301.3	301.1
175°	302.8	303.4	303.4	303.4	303.4
177.5°	302.9	303.4	303.4	303.4	303.4
180°	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934518
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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	16.18	17.25	16.94	18.04	19.00	18.98	20.05	19.74	20.84	21.79
	3H	16.67	17.64	17.45	18.43	19.42	20.33	21.29	21.11	22.09	23.07
	4H	16.87	17.78	17.67	18.59	19.59	20.78	21.69	21.57	22.49	23.49
	6H	17.00	17.84	17.81	18.66	19.67	21.06	21.90	21.87	22.72	23.73
	8H	17.01	17.81	17.83	18.64	19.65	21.14	21.94	21.96	22.77	23.78
	12H	16.99	17.75	17.81	18.58	19.62	21.18	21.94	22.01	22.77	23.81
4H	2H	17.23	18.14	18.03	18.95	19.94	19.41	20.32	20.21	21.13	22.13
	3H	18.28	19.04	19.09	19.87	20.89	20.93	21.69	21.74	22.53	23.54
	4H	18.56	19.25	19.39	20.09	21.13	21.46	22.15	22.29	22.99	24.03
	6H	18.70	19.30	19.54	20.16	21.20	21.83	22.43	22.67	23.29	24.33
	8H	18.71	19.27	19.56	20.13	21.18	21.94	22.49	22.78	23.35	24.41
	12H	18.69	19.19	19.55	20.07	21.13	22.00	22.50	22.86	23.38	24.44
8H	4H	19.03	19.58	19.87	20.44	21.50	21.60	22.16	22.45	23.02	24.08
	6H	19.30	19.76	20.17	20.66	21.72	22.04	22.50	22.91	23.40	24.46
	8H	19.34	19.75	20.23	20.65	21.72	22.19	22.60	23.07	23.49	24.57
	12H	19.34	19.70	20.22	20.58	21.71	22.29	22.65	23.18	23.54	24.67
12H	4H	19.04	19.54	19.91	20.42	21.49	21.58	22.08	22.44	22.96	24.02
	6H	19.36	19.77	20.24	20.66	21.74	22.04	22.45	22.92	23.34	24.42
	8H	19.44	19.80	20.32	20.68	21.81	22.20	22.57	23.09	23.45	24.58