

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: P934118

Luminaire Tested: SQ4-FA-025U-125D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934118
REPORT IS A COMBINATION OF REPORTS P933686 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

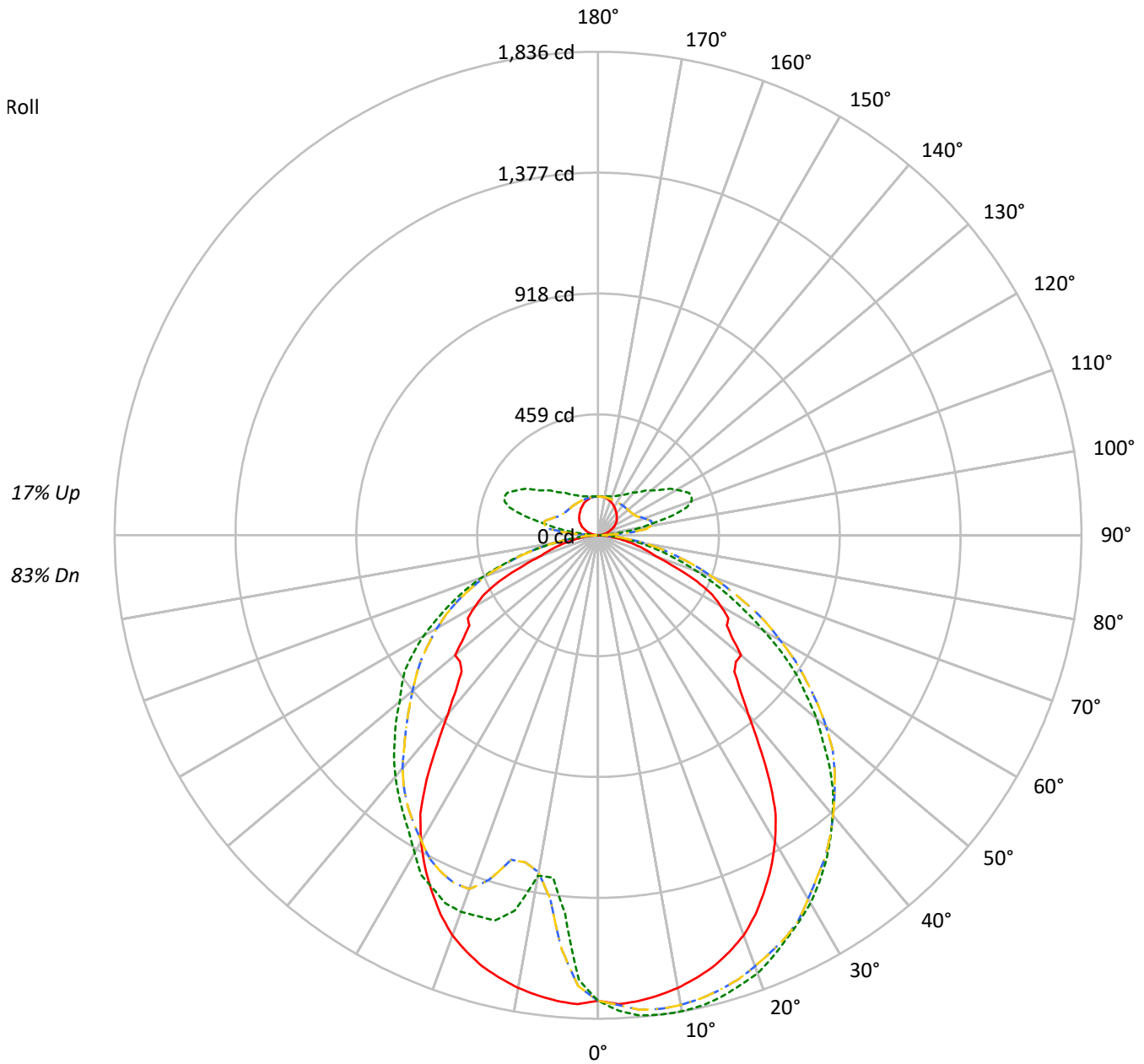
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5538.7 lumens
Efficiency: N/A
Efficacy: 111.7 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): 49.6
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				
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

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	2.9
10°-20°	453.0	8.2
20°-30°	700.2	12.6
30°-40°	835.9	15.1
40°-50°	840.8	15.2
50°-60°	731.6	13.2
60°-70°	518.7	9.4
70°-80°	274.4	5.0
80°-90°	68.9	1.2
90°-100°	71.9	1.3
100°-110°	189.0	3.4
110°-120°	195.9	3.5
120°-130°	157.1	2.8
130°-140°	123.3	2.2
140°-150°	94.6	1.7
150°-160°	68.2	1.2
160°-170°	41.7	0.8
170°-180°	14.1	0.3
0°-30°	1312.7	23.7
0°-40°	2148.5	38.8
0°-60°	3720.9	67.2
0°-90°	4582.9	82.7
90°-120°	456.8	8.2
90°-150°	831.9	15.0
90°-180°	956.0	17.3
0°-180°	5538.7	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°	1	4	1	4	1	2
95°	10	44	10	44	10	11
105°	34	296	34	296	34	36
115°	60	381	60	381	60	60
125°	84	303	84	303	84	75
135°	100	235	100	235	100	78
145°	116	191	116	191	116	73
155°	131	164	131	164	131	60
165°	142	153	142	153	142	40
175°	147	148	147	148	147	14
180°	147	147	147	147	147	



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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°	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0	3.8	3.8
92.5°	4.0	10.7	17.4	19.1	26.9	37.2	42.4	37.1	26.7	18.8	18.0
95°	9.5	21.8	34.2	37.2	66.1	104.5	123.8	110.5	83.8	63.8	61.6
97.5°	16.4	27.3	38.1	40.9	89.0	153.1	185.2	176.9	160.0	147.3	143.0
100°	21.7	31.6	41.5	44.0	97.3	168.6	204.1	204.7	206.0	206.9	201.7
102.5°	26.3	35.5	44.8	47.0	101.2	173.4	209.5	220.2	241.7	257.8	253.3
105°	34.1	41.9	49.6	51.6	104.0	173.9	208.9	233.0	281.1	317.1	314.8
107.5°	42.0	49.2	56.5	58.3	104.5	166.2	197.0	230.6	297.7	348.1	348.7
110°	47.3	53.8	60.4	62.0	103.7	159.4	187.1	224.7	299.7	356.0	358.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	52.6	58.8	65.0	66.6	103.7	153.3	178.1	216.6	293.3	350.9	354.7
115°	60.5	66.2	71.9	73.4	104.7	146.5	167.4	204.3	278.3	333.7	339.0
117.5°	68.3	73.5	78.7	80.0	106.7	142.2	160.0	193.4	260.0	310.1	316.0
120°	72.8	77.8	82.7	83.9	108.2	140.7	156.9	187.4	248.5	294.2	299.9
122.5°	77.3	82.2	87.1	88.4	110.5	139.9	154.6	182.1	237.0	278.2	283.8
125°	84.1	88.6	93.2	94.4	113.6	139.3	152.2	175.5	222.2	257.2	262.3
127.5°	89.6	94.3	98.8	100.0	116.7	138.9	150.1	170.1	210.2	240.3	244.6
130°	92.6	97.5	102.5	103.7	119.0	139.2	149.3	167.2	202.8	229.6	233.6
132.5°	95.7	100.7	105.6	106.8	120.7	139.3	148.6	164.6	196.5	220.5	224.1
135°	100.3	104.7	109.3	110.4	122.7	139.2	147.4	160.7	187.5	207.6	210.6
137.5°	104.9	109.4	113.8	114.9	125.7	140.0	147.2	158.5	181.1	198.1	200.7
140°	108.8	112.8	117.0	118.0	127.5	140.2	146.5	156.3	175.9	190.5	192.9
142.5°	111.7	115.5	119.3	120.2	129.0	140.7	146.5	155.1	172.3	185.2	187.2
145°	116.3	119.5	122.9	123.7	131.0	140.7	145.5	152.5	166.6	177.1	178.7
147.5°	120.8	124.0	127.3	128.0	133.9	141.7	145.5	151.1	162.1	170.4	171.7
150°	123.8	126.7	129.6	130.3	135.4	142.2	145.5	150.2	159.6	166.6	167.6
152.5°	126.9	129.0	131.2	131.8	136.3	142.5	145.5	149.5	157.5	163.5	164.3
155°	131.4	133.0	134.7	135.1	138.5	143.2	145.5	148.7	155.1	159.9	160.4
157.5°	134.8	136.3	137.9	138.3	140.7	144.0	145.5	148.0	152.9	156.6	157.0
160°	137.0	138.2	139.5	139.8	141.7	144.2	145.5	147.6	151.9	155.0	155.2
162.5°	139.3	140.2	141.2	141.4	142.8	144.6	145.5	147.3	150.9	153.5	153.7
165°	141.8	142.6	143.5	143.7	144.2	145.1	145.5	146.8	149.4	151.3	151.5
167.5°	144.1	144.4	144.8	144.9	145.4	146.1	146.5	147.3	149.0	150.3	150.4
170°	145.5	145.9	146.3	146.4	146.4	146.5	146.5	147.3	149.0	150.3	150.3
172.5°	146.3	146.4	146.5	146.5	146.5	146.5	146.5	147.2	148.5	149.5	149.4
175°	147.4	147.4	147.4	147.4	147.1	146.7	146.5	146.9	147.8	148.4	148.4
177.5°	147.4	147.4	147.4	147.4	147.2	146.9	146.7	147.0	147.7	148.2	148.1
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



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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°	3.8	3.8	3.8	3.8	3.8	5.0	6.7	7.5	6.4	4.3	2.8
92.5°	15.0	12.1	15.0	18.0	18.8	26.7	37.1	42.4	37.2	26.9	19.1
95°	52.6	43.5	52.6	61.6	63.8	83.8	110.5	123.8	104.5	66.1	37.2
97.5°	125.8	108.6	125.8	143.0	147.3	160.0	176.9	185.2	153.1	89.0	40.9
100°	181.3	160.7	181.3	201.7	206.9	206.0	204.7	204.1	168.6	97.3	44.0
102.5°	235.7	218.2	235.7	253.3	257.8	241.7	220.2	209.5	173.4	101.2	47.0
105°	305.4	295.9	305.4	314.8	317.1	281.1	233.0	208.9	173.9	104.0	51.6
107.5°	350.9	353.2	350.9	348.7	348.1	297.7	230.6	197.0	166.2	104.5	58.3
110°	368.2	378.1	368.2	358.4	356.0	299.7	224.7	187.1	159.4	103.7	62.0



TEST NUMBER: P934118

CATALOG NUMBER: SQ4-FA-025U-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°	369.8	384.9	369.8	354.7	350.9	293.3	216.6	178.1	153.3	103.7	66.6
115°	360.0	381.0	360.0	339.0	333.7	278.3	204.3	167.4	146.5	104.7	73.4
117.5°	339.2	362.5	339.2	316.0	310.1	260.0	193.4	160.0	142.2	106.7	80.0
120°	322.5	345.0	322.5	299.9	294.2	248.5	187.4	156.9	140.7	108.2	83.9
122.5°	306.1	328.4	306.1	283.8	278.2	237.0	182.1	154.6	139.9	110.5	88.4
125°	282.9	303.4	282.9	262.3	257.2	222.2	175.5	152.2	139.3	113.6	94.4
127.5°	261.9	279.2	261.9	244.6	240.3	210.2	170.1	150.1	138.9	116.7	100.0
130°	249.6	265.6	249.6	233.6	229.6	202.8	167.2	149.3	139.2	119.0	103.7
132.5°	238.4	252.7	238.4	224.1	220.5	196.5	164.6	148.6	139.3	120.7	106.8
135°	223.1	235.4	223.1	210.6	207.6	187.5	160.7	147.4	139.2	122.7	110.4
137.5°	210.7	220.9	210.7	200.7	198.1	181.1	158.5	147.2	140.0	125.7	114.9
140°	202.2	211.7	202.2	192.9	190.5	175.9	156.3	146.5	140.2	127.5	118.0
142.5°	195.3	203.4	195.3	187.2	185.2	172.3	155.1	146.5	140.7	129.0	120.2
145°	184.9	191.0	184.9	178.7	177.1	166.6	152.5	145.5	140.7	131.0	123.7
147.5°	176.8	181.9	176.8	171.7	170.4	162.1	151.1	145.5	141.7	133.9	128.0
150°	171.7	175.9	171.7	167.6	166.6	159.6	150.2	145.5	142.2	135.4	130.3
152.5°	167.4	170.5	167.4	164.3	163.5	157.5	149.5	145.5	142.5	136.3	131.8
155°	162.4	164.5	162.4	160.4	159.9	155.1	148.7	145.5	143.2	138.5	135.1
157.5°	158.5	160.0	158.5	157.0	156.6	152.9	148.0	145.5	144.0	140.7	138.3
160°	156.1	156.9	156.1	155.2	155.0	151.9	147.6	145.5	144.2	141.7	139.8
162.5°	154.5	155.3	154.5	153.7	153.5	150.9	147.3	145.5	144.6	142.8	141.4
165°	152.3	153.1	152.3	151.5	151.3	149.4	146.8	145.5	145.1	144.2	143.7
167.5°	150.7	151.1	150.7	150.4	150.3	149.0	147.3	146.5	146.1	145.4	144.9
170°	150.3	150.3	150.3	150.3	150.3	149.0	147.3	146.5	146.5	146.4	146.4
172.5°	149.1	148.8	149.1	149.4	149.5	148.5	147.2	146.5	146.5	146.5	146.5
175°	148.4	148.4	148.4	148.4	148.4	147.8	146.9	146.5	146.7	147.1	147.4
177.5°	147.8	147.4	147.8	148.1	148.2	147.7	147.0	146.7	146.9	147.2	147.4
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



TEST NUMBER: P934118

CATALOG NUMBER: SQ4-FA-025U-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°	2.6	1.8	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0
92.5°	17.4	10.7	4.0	10.7	17.4	19.1	26.9	37.2	42.4	37.1	26.7
95°	34.2	21.8	9.5	21.8	34.2	37.2	66.1	104.5	123.8	110.5	83.8
97.5°	38.1	27.3	16.4	27.3	38.1	40.9	89.0	153.1	185.2	176.9	160.0
100°	41.5	31.6	21.7	31.6	41.5	44.0	97.3	168.6	204.1	204.7	206.0
102.5°	44.8	35.5	26.3	35.5	44.8	47.0	101.2	173.4	209.5	220.2	241.7
105°	49.6	41.9	34.1	41.9	49.6	51.6	104.0	173.9	208.9	233.0	281.1
107.5°	56.5	49.2	42.0	49.2	56.5	58.3	104.5	166.2	197.0	230.6	297.7
110°	60.4	53.8	47.3	53.8	60.4	62.0	103.7	159.4	187.1	224.7	299.7



TEST NUMBER: P934118

CATALOG NUMBER: SQ4-FA-025U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	65.0	58.8	52.6	58.8	65.0	66.6	103.7	153.3	178.1	216.6	293.3
115°	71.9	66.2	60.5	66.2	71.9	73.4	104.7	146.5	167.4	204.3	278.3
117.5°	78.7	73.5	68.3	73.5	78.7	80.0	106.7	142.2	160.0	193.4	260.0
120°	82.7	77.8	72.8	77.8	82.7	83.9	108.2	140.7	156.9	187.4	248.5
122.5°	87.1	82.2	77.3	82.2	87.1	88.4	110.5	139.9	154.6	182.1	237.0
125°	93.2	88.6	84.1	88.6	93.2	94.4	113.6	139.3	152.2	175.5	222.2
127.5°	98.8	94.3	89.6	94.3	98.8	100.0	116.7	138.9	150.1	170.1	210.2
130°	102.5	97.5	92.6	97.5	102.5	103.7	119.0	139.2	149.3	167.2	202.8
132.5°	105.6	100.7	95.7	100.7	105.6	106.8	120.7	139.3	148.6	164.6	196.5
135°	109.3	104.7	100.3	104.7	109.3	110.4	122.7	139.2	147.4	160.7	187.5
137.5°	113.8	109.4	104.9	109.4	113.8	114.9	125.7	140.0	147.2	158.5	181.1
140°	117.0	112.8	108.8	112.8	117.0	118.0	127.5	140.2	146.5	156.3	175.9
142.5°	119.3	115.5	111.7	115.5	119.3	120.2	129.0	140.7	146.5	155.1	172.3
145°	122.9	119.5	116.3	119.5	122.9	123.7	131.0	140.7	145.5	152.5	166.6
147.5°	127.3	124.0	120.8	124.0	127.3	128.0	133.9	141.7	145.5	151.1	162.1
150°	129.6	126.7	123.8	126.7	129.6	130.3	135.4	142.2	145.5	150.2	159.6
152.5°	131.2	129.0	126.9	129.0	131.2	131.8	136.3	142.5	145.5	149.5	157.5
155°	134.7	133.0	131.4	133.0	134.7	135.1	138.5	143.2	145.5	148.7	155.1
157.5°	137.9	136.3	134.8	136.3	137.9	138.3	140.7	144.0	145.5	148.0	152.9
160°	139.5	138.2	137.0	138.2	139.5	139.8	141.7	144.2	145.5	147.6	151.9
162.5°	141.2	140.2	139.3	140.2	141.2	141.4	142.8	144.6	145.5	147.3	150.9
165°	143.5	142.6	141.8	142.6	143.5	143.7	144.2	145.1	145.5	146.8	149.4
167.5°	144.8	144.4	144.1	144.4	144.8	144.9	145.4	146.1	146.5	147.3	149.0
170°	146.3	145.9	145.5	145.9	146.3	146.4	146.4	146.5	146.5	147.3	149.0
172.5°	146.5	146.4	146.3	146.4	146.5	146.5	146.5	146.5	146.5	147.2	148.5
175°	147.4	147.4	147.4	147.4	147.4	147.4	147.1	146.7	146.5	146.9	147.8
177.5°	147.4	147.4	147.4	147.4	147.4	147.4	147.2	146.9	146.7	147.0	147.7
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



TEST NUMBER: P934118
 CATALOG NUMBER: SQ4-FA-025U-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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.0	6.7	7.5	6.4
92.5°	18.8	18.0	15.0	12.1	15.0	18.0	18.8	26.7	37.1	42.4	37.2
95°	63.8	61.6	52.6	43.5	52.6	61.6	63.8	83.8	110.5	123.8	104.5
97.5°	147.3	143.0	125.8	108.6	125.8	143.0	147.3	160.0	176.9	185.2	153.1
100°	206.9	201.7	181.3	160.7	181.3	201.7	206.9	206.0	204.7	204.1	168.6
102.5°	257.8	253.3	235.7	218.2	235.7	253.3	257.8	241.7	220.2	209.5	173.4
105°	317.1	314.8	305.4	295.9	305.4	314.8	317.1	281.1	233.0	208.9	173.9
107.5°	348.1	348.7	350.9	353.2	350.9	348.7	348.1	297.7	230.6	197.0	166.2
110°	356.0	358.4	368.2	378.1	368.2	358.4	356.0	299.7	224.7	187.1	159.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	350.9	354.7	369.8	384.9	369.8	354.7	350.9	293.3	216.6	178.1	153.3
115°	333.7	339.0	360.0	381.0	360.0	339.0	333.7	278.3	204.3	167.4	146.5
117.5°	310.1	316.0	339.2	362.5	339.2	316.0	310.1	260.0	193.4	160.0	142.2
120°	294.2	299.9	322.5	345.0	322.5	299.9	294.2	248.5	187.4	156.9	140.7
122.5°	278.2	283.8	306.1	328.4	306.1	283.8	278.2	237.0	182.1	154.6	139.9
125°	257.2	262.3	282.9	303.4	282.9	262.3	257.2	222.2	175.5	152.2	139.3
127.5°	240.3	244.6	261.9	279.2	261.9	244.6	240.3	210.2	170.1	150.1	138.9
130°	229.6	233.6	249.6	265.6	249.6	233.6	229.6	202.8	167.2	149.3	139.2
132.5°	220.5	224.1	238.4	252.7	238.4	224.1	220.5	196.5	164.6	148.6	139.3
135°	207.6	210.6	223.1	235.4	223.1	210.6	207.6	187.5	160.7	147.4	139.2
137.5°	198.1	200.7	210.7	220.9	210.7	200.7	198.1	181.1	158.5	147.2	140.0
140°	190.5	192.9	202.2	211.7	202.2	192.9	190.5	175.9	156.3	146.5	140.2
142.5°	185.2	187.2	195.3	203.4	195.3	187.2	185.2	172.3	155.1	146.5	140.7
145°	177.1	178.7	184.9	191.0	184.9	178.7	177.1	166.6	152.5	145.5	140.7
147.5°	170.4	171.7	176.8	181.9	176.8	171.7	170.4	162.1	151.1	145.5	141.7
150°	166.6	167.6	171.7	175.9	171.7	167.6	166.6	159.6	150.2	145.5	142.2
152.5°	163.5	164.3	167.4	170.5	167.4	164.3	163.5	157.5	149.5	145.5	142.5
155°	159.9	160.4	162.4	164.5	162.4	160.4	159.9	155.1	148.7	145.5	143.2
157.5°	156.6	157.0	158.5	160.0	158.5	157.0	156.6	152.9	148.0	145.5	144.0
160°	155.0	155.2	156.1	156.9	156.1	155.2	155.0	151.9	147.6	145.5	144.2
162.5°	153.5	153.7	154.5	155.3	154.5	153.7	153.5	150.9	147.3	145.5	144.6
165°	151.3	151.5	152.3	153.1	152.3	151.5	151.3	149.4	146.8	145.5	145.1
167.5°	150.3	150.4	150.7	151.1	150.7	150.4	150.3	149.0	147.3	146.5	146.1
170°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	149.0	147.3	146.5	146.5
172.5°	149.5	149.4	149.1	148.8	149.1	149.4	149.5	148.5	147.2	146.5	146.5
175°	148.4	148.4	148.4	148.4	148.4	148.4	148.4	147.8	146.9	146.5	146.7
177.5°	148.2	148.1	147.8	147.4	147.8	148.1	148.2	147.7	147.0	146.7	146.9
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



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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°	4.3	2.8	2.6	1.8	1.0
92.5°	26.9	19.1	17.4	10.7	4.0
95°	66.1	37.2	34.2	21.8	9.5
97.5°	89.0	40.9	38.1	27.3	16.4
100°	97.3	44.0	41.5	31.6	21.7
102.5°	101.2	47.0	44.8	35.5	26.3
105°	104.0	51.6	49.6	41.9	34.1
107.5°	104.5	58.3	56.5	49.2	42.0
110°	103.7	62.0	60.4	53.8	47.3



TEST NUMBER: P934118

CATALOG NUMBER: SQ4-FA-025U-125D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	103.7	66.6	65.0	58.8	52.6
115°	104.7	73.4	71.9	66.2	60.5
117.5°	106.7	80.0	78.7	73.5	68.3
120°	108.2	83.9	82.7	77.8	72.8
122.5°	110.5	88.4	87.1	82.2	77.3
125°	113.6	94.4	93.2	88.6	84.1
127.5°	116.7	100.0	98.8	94.3	89.6
130°	119.0	103.7	102.5	97.5	92.6
132.5°	120.7	106.8	105.6	100.7	95.7
135°	122.7	110.4	109.3	104.7	100.3
137.5°	125.7	114.9	113.8	109.4	104.9
140°	127.5	118.0	117.0	112.8	108.8
142.5°	129.0	120.2	119.3	115.5	111.7
145°	131.0	123.7	122.9	119.5	116.3
147.5°	133.9	128.0	127.3	124.0	120.8
150°	135.4	130.3	129.6	126.7	123.8
152.5°	136.3	131.8	131.2	129.0	126.9
155°	138.5	135.1	134.7	133.0	131.4
157.5°	140.7	138.3	137.9	136.3	134.8
160°	141.7	139.8	139.5	138.2	137.0
162.5°	142.8	141.4	141.2	140.2	139.3
165°	144.2	143.7	143.5	142.6	141.8
167.5°	145.4	144.9	144.8	144.4	144.1
170°	146.4	146.4	146.3	145.9	145.5
172.5°	146.5	146.5	146.5	146.4	146.3
175°	147.1	147.4	147.4	147.4	147.4
177.5°	147.2	147.4	147.4	147.4	147.4
180°	147.4	147.4	147.4	147.4	147.4



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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	17.12	18.38	17.74	19.01	19.72	19.92	21.18	20.53	21.80	22.52
	3H	17.63	18.76	18.26	19.40	20.14	21.29	22.42	21.91	23.05	23.80
	4H	17.84	18.91	18.49	19.55	20.31	21.74	22.81	22.39	23.46	24.22
	6H	17.98	18.96	18.64	19.62	20.40	22.04	23.02	22.70	23.68	24.46
	8H	17.99	18.93	18.66	19.61	20.39	22.12	23.06	22.79	23.74	24.52
	12H	17.98	18.87	18.65	19.55	20.35	22.17	23.06	22.85	23.74	24.54
4H	2H	18.20	19.26	18.85	19.91	20.67	20.38	21.45	21.03	22.09	22.85
	3H	19.26	20.15	19.92	20.83	21.61	21.91	22.80	22.57	23.49	24.27
	4H	19.55	20.36	20.23	21.05	21.86	22.45	23.25	23.13	23.95	24.76
	6H	19.70	20.40	20.40	21.11	21.94	22.83	23.53	23.53	24.24	25.07
	8H	19.71	20.37	20.42	21.08	21.91	22.94	23.59	23.64	24.31	25.14
	12H	19.70	20.29	20.43	21.03	21.86	23.01	23.60	23.74	24.34	25.17
8H	4H	20.03	20.68	20.74	21.40	22.23	22.61	23.26	23.31	23.97	24.81
	6H	20.31	20.85	21.04	21.61	22.44	23.05	23.59	23.79	24.35	25.18
	8H	20.35	20.84	21.10	21.60	22.45	23.20	23.68	23.95	24.44	25.29
	12H	20.36	20.78	21.11	21.53	22.44	23.31	23.74	24.06	24.49	25.40
12H	4H	20.05	20.64	20.78	21.38	22.22	22.59	23.18	23.32	23.92	24.75
	6H	20.37	20.86	21.12	21.61	22.47	23.05	23.53	23.80	24.29	25.14
	8H	20.46	20.88	21.21	21.63	22.54	23.23	23.65	23.98	24.40	25.31