

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: P934110

Luminaire Tested: SQ4-FA-025U-125D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934110
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-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

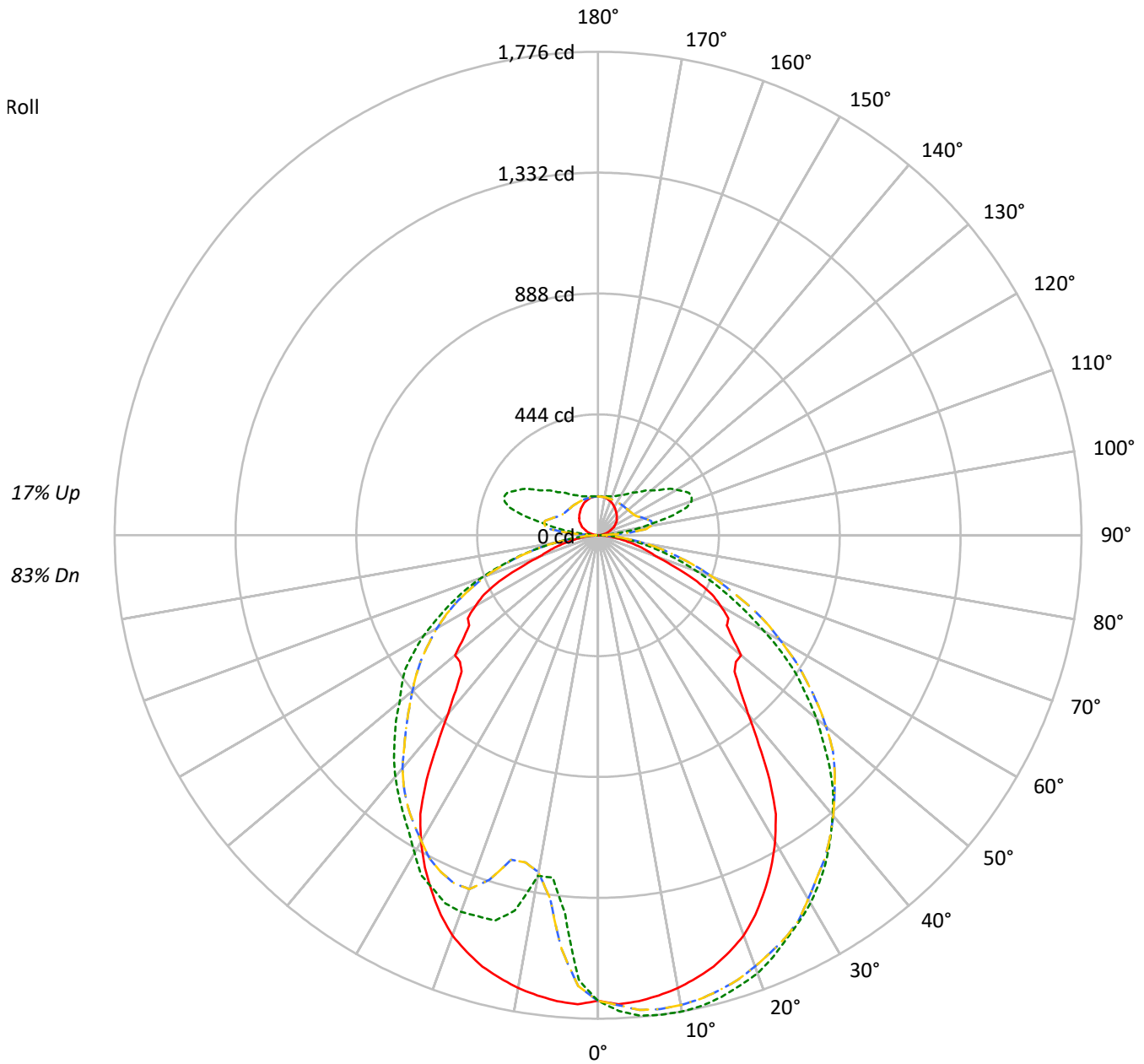
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5359.3 lumens
Efficiency: N/A
Efficacy: 108.1 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°	15868	15868	15868	15868
5°	15969	16019	15969	12595
10°	15845	15779	15845	11281
15°	15655	15437	15655	12889
20°	15310	15032	15310	12917
25°	14621	14441	14621	12643
30°	13738	13950	13738	12043
35°	12230	13331	12230	11382
40°	10172	12600	10172	10883
45°	9072	11746	9072	10309
50°	9615	10726	9615	9733
55°	9022	9628	9022	9400
60°	9266	8177	9266	8610
65°	8361	6761	8361	7556
70°	5750	5387	5750	6333
75°	4988	3982	4988	4769
80°	3936	2632	3936	2866
85°	2145	1394	2145	1185

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	2.9
10°-20°	438.3	8.2
20°-30°	677.5	12.6
30°-40°	808.8	15.1
40°-50°	813.5	15.2
50°-60°	707.9	13.2
60°-70°	501.9	9.4
70°-80°	265.5	5.0
80°-90°	66.7	1.2
90°-100°	69.5	1.3
100°-110°	182.8	3.4
110°-120°	189.6	3.5
120°-130°	152.1	2.8
130°-140°	119.3	2.2
140°-150°	91.6	1.7
150°-160°	65.9	1.2
160°-170°	40.3	0.8
170°-180°	13.6	0.3
0°-30°	1270.2	23.7
0°-40°	2078.9	38.8
0°-60°	3600.4	67.2
0°-90°	4434.5	82.7
90°-120°	442.0	8.2
90°-150°	804.9	15.0
90°-180°	925.0	17.3
0°-180°	5359.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1710	1710	1710	1710	1710	
5°	1718	1772	1718	1393	1718	163
15°	1640	1755	1640	1466	1640	462
25°	1445	1637	1445	1433	1445	663
35°	1098	1461	1098	1247	1098	680
45°	709	1204	709	1056	709	568
55°	578	888	578	867	578	531
65°	401	536	401	599	401	383
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	1	4	1	4	1	2
95°	9	42	9	42	9	10
105°	33	286	33	286	33	35
115°	58	369	58	369	58	58
125°	81	294	81	294	81	72
135°	97	228	97	228	97	75
145°	112	185	112	185	112	70
155°	127	159	127	159	127	58
165°	137	148	137	148	137	39
175°	143	144	143	144	143	14
180°	143	143	143	143	143	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1724.6	1724.6	1734.4	1737.6	1737.6	1732.8	1727.9	1732.8	1747.3	1752.2	1750.5
5°	1718.1	1731.1	1748.9	1752.2	1755.4	1753.8	1750.5	1753.8	1769.9	1773.2	1774.8
7.5°	1705.2	1729.5	1752.2	1757.0	1761.8	1757.0	1755.4	1758.7	1774.8	1778.1	1778.1
10°	1689.1	1723.0	1748.9	1752.2	1757.0	1752.2	1752.2	1758.7	1774.8	1778.1	1779.7
12.5°	1666.4	1713.3	1737.6	1740.8	1747.3	1745.7	1744.0	1750.5	1766.7	1769.9	1769.9
15°	1640.5	1695.6	1718.1	1721.4	1732.8	1729.5	1729.5	1736.0	1753.8	1758.7	1757.0
17.5°	1604.9	1672.9	1698.7	1703.6	1711.7	1710.1	1711.7	1718.1	1734.4	1737.6	1739.2
20°	1564.5	1642.1	1672.9	1677.7	1685.8	1685.8	1685.8	1693.9	1710.1	1716.6	1716.6
22.5°	1509.4	1609.8	1642.1	1645.4	1655.0	1655.0	1658.3	1669.7	1684.2	1685.8	1685.8
25°	1444.7	1574.1	1601.7	1611.4	1621.1	1626.0	1630.8	1637.2	1642.1	1640.5	1642.1
27.5°	1376.8	1528.8	1564.5	1570.9	1583.9	1588.8	1595.2	1596.8	1598.4	1603.3	1600.1
30°	1300.7	1465.7	1519.2	1525.7	1546.7	1549.9	1543.5	1546.7	1554.7	1558.0	1561.2
32.5°	1215.0	1372.0	1472.2	1486.8	1506.3	1496.5	1494.9	1499.8	1512.7	1512.7	1515.9
35°	1098.5	1299.1	1428.6	1441.6	1456.1	1444.7	1451.2	1452.8	1461.0	1465.7	1464.2
37.5°	970.7	1236.0	1383.2	1393.0	1404.3	1389.7	1399.5	1404.3	1410.8	1407.5	1407.5
40°	857.4	1137.4	1329.9	1336.4	1346.0	1334.8	1344.4	1347.7	1350.9	1347.7	1346.0
42.5°	773.3	1028.9	1273.3	1281.3	1274.8	1283.0	1286.2	1292.7	1287.8	1281.3	1281.3
45°	708.6	999.9	1211.7	1221.5	1211.7	1224.7	1229.6	1229.6	1215.0	1211.7	1210.2
47.5°	687.6	941.6	1150.3	1150.3	1145.5	1161.6	1169.7	1158.4	1143.9	1139.0	1139.0
50°	685.9	876.8	1066.1	1059.7	1082.4	1101.8	1093.7	1082.4	1071.0	1053.2	1053.2
52.5°	622.8	797.6	957.8	982.0	1017.7	1028.9	1016.0	1004.7	985.3	977.2	970.7
55°	577.6	715.1	859.1	907.6	944.8	959.3	935.2	923.8	894.7	889.8	886.6
57.5°	567.9	595.4	768.5	830.0	875.2	873.7	859.1	838.0	813.7	809.0	807.3
60°	520.9	430.4	671.4	744.2	791.1	786.3	773.3	753.9	731.2	728.0	724.8
62.5°	472.5	312.2	561.4	643.9	710.2	708.6	697.3	668.1	652.0	643.9	637.5
65°	401.2	262.1	399.6	535.6	631.0	634.2	609.9	588.9	571.1	561.4	559.7
67.5°	305.7	213.6	270.2	446.5	555.0	551.7	520.9	511.3	488.6	483.7	474.1
70°	226.5	142.3	187.7	362.4	480.5	472.5	448.2	436.8	415.8	404.5	398.0
72.5°	187.7	114.9	137.5	281.5	404.5	394.7	373.7	360.8	343.0	333.3	326.8
75°	152.1	121.3	105.2	208.7	328.4	322.0	302.6	289.6	275.0	262.1	263.7
77.5°	111.7	113.3	84.1	153.7	260.5	250.8	239.5	223.2	216.8	203.8	203.8
80°	84.1	89.0	63.1	105.2	187.7	187.7	178.0	166.6	155.4	148.8	148.8
82.5°	56.6	56.6	46.9	66.3	127.8	122.9	116.4	113.3	106.8	103.5	103.5
85°	25.9	32.3	29.2	40.4	69.6	72.8	72.8	69.6	68.0	64.7	66.3
87.5°	8.1	14.5	17.8	22.7	35.6	37.2	38.8	38.8	38.8	40.4	40.4
90°	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9	3.6	3.6
92.5°	3.8	10.3	16.8	18.5	26.0	36.0	41.0	35.9	25.8	18.2	17.4
95°	9.2	21.1	33.1	36.0	64.0	101.1	119.8	106.9	81.1	61.8	59.6
97.5°	15.9	26.4	36.9	39.6	86.1	148.2	179.2	171.1	154.8	142.5	138.3
100°	21.0	30.6	40.2	42.5	94.2	163.1	197.5	198.1	199.3	200.2	195.2
102.5°	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.8	249.4	245.1
105°	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.4	272.0	306.9	304.6
107.5°	40.6	47.6	54.7	56.4	101.1	160.8	190.6	223.1	288.0	336.8	337.4
110°	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0	344.4	346.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.8	339.6	343.2
115°	58.5	64.1	69.6	71.0	101.3	141.8	161.9	197.7	269.3	322.9	328.0
117.5°	66.1	71.1	76.2	77.4	103.2	137.6	154.8	187.1	251.6	300.1	305.7
120°	70.5	75.2	80.0	81.2	104.7	136.1	151.8	181.4	240.4	284.7	290.1
122.5°	74.8	79.5	84.3	85.6	106.9	135.4	149.6	176.2	229.3	269.2	274.6
125°	81.4	85.8	90.2	91.3	109.9	134.8	147.2	169.8	215.0	248.8	253.8
127.5°	86.7	91.2	95.6	96.7	112.9	134.4	145.2	164.6	203.4	232.5	236.7
130°	89.6	94.4	99.1	100.4	115.1	134.7	144.5	161.8	196.3	222.2	226.0
132.5°	92.6	97.4	102.2	103.3	116.8	134.8	143.8	159.3	190.1	213.4	216.8
135°	97.0	101.3	105.7	106.8	118.7	134.7	142.6	155.5	181.4	200.9	203.8
137.5°	101.5	105.8	110.1	111.2	121.6	135.5	142.4	153.3	175.2	191.7	194.2
140°	105.3	109.2	113.2	114.1	123.3	135.7	141.8	151.2	170.2	184.3	186.6
142.5°	108.1	111.8	115.4	116.3	124.9	136.1	141.8	150.1	166.7	179.2	181.2
145°	112.5	115.7	118.9	119.7	126.8	136.1	140.8	147.6	161.2	171.4	172.9
147.5°	116.9	120.0	123.1	123.9	129.5	137.1	140.8	146.2	156.9	164.9	166.2
150°	119.8	122.6	125.4	126.1	131.0	137.6	140.8	145.3	154.4	161.2	162.1
152.5°	122.8	124.9	127.0	127.5	131.9	137.9	140.8	144.6	152.4	158.2	159.0
155°	127.1	128.7	130.3	130.7	134.0	138.5	140.8	143.9	150.1	154.7	155.2
157.5°	130.4	131.9	133.5	133.8	136.1	139.3	140.8	143.2	148.0	151.5	151.9
160°	132.6	133.7	135.0	135.3	137.1	139.6	140.8	142.8	146.9	150.0	150.2
162.5°	134.8	135.7	136.6	136.8	138.1	140.0	140.8	142.5	146.0	148.6	148.8
165°	137.2	138.0	138.8	139.0	139.6	140.4	140.8	142.1	144.5	146.4	146.6
167.5°	139.4	139.8	140.1	140.2	140.7	141.4	141.8	142.5	144.2	145.4	145.5
170°	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.5	144.2	145.4	145.4
172.5°	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.4	143.7	144.6	144.5
175°	142.6	142.6	142.6	142.6	142.3	142.0	141.8	142.2	143.0	143.6	143.6
177.5°	142.6	142.6	142.6	142.6	142.4	142.2	142.0	142.3	142.9	143.4	143.3
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1753.8	1748.9	1753.8	1750.5	1752.2	1747.3	1732.8	1727.9	1732.8	1737.6	1737.6
5°	1774.8	1771.6	1774.8	1774.8	1773.2	1769.9	1753.8	1750.5	1753.8	1755.4	1752.2
7.5°	1781.2	1776.4	1781.2	1778.1	1778.1	1774.8	1758.7	1755.4	1757.0	1761.8	1757.0
10°	1781.2	1776.4	1781.2	1779.7	1778.1	1774.8	1758.7	1752.2	1752.2	1757.0	1752.2
12.5°	1773.2	1769.9	1773.2	1769.9	1769.9	1766.7	1750.5	1744.0	1745.7	1747.3	1740.8
15°	1760.2	1755.4	1760.2	1757.0	1758.7	1753.8	1736.0	1729.5	1729.5	1732.8	1721.4
17.5°	1740.8	1734.4	1740.8	1739.2	1737.6	1734.4	1718.1	1711.7	1710.1	1711.7	1703.6
20°	1718.1	1713.3	1718.1	1716.6	1716.6	1710.1	1693.9	1685.8	1685.8	1685.8	1677.7
22.5°	1682.6	1677.7	1682.6	1685.8	1685.8	1684.2	1669.7	1658.3	1655.0	1655.0	1645.4
25°	1642.1	1637.2	1642.1	1642.1	1640.5	1642.1	1637.2	1630.8	1626.0	1621.1	1611.4
27.5°	1603.3	1600.1	1603.3	1600.1	1603.3	1598.4	1596.8	1595.2	1588.8	1583.9	1570.9
30°	1564.5	1561.2	1564.5	1561.2	1558.0	1554.7	1546.7	1543.5	1549.9	1546.7	1525.7
32.5°	1515.9	1512.7	1515.9	1515.9	1512.7	1512.7	1499.8	1494.9	1496.5	1506.3	1486.8
35°	1465.7	1461.0	1465.7	1464.2	1465.7	1461.0	1452.8	1451.2	1444.7	1456.1	1441.6
37.5°	1407.5	1402.6	1407.5	1407.5	1407.5	1410.8	1404.3	1399.5	1389.7	1404.3	1393.0
40°	1347.7	1341.2	1347.7	1346.0	1347.7	1350.9	1347.7	1344.4	1334.8	1346.0	1336.4
42.5°	1279.7	1278.1	1279.7	1281.3	1281.3	1287.8	1292.7	1286.2	1283.0	1274.8	1281.3
45°	1207.0	1203.7	1207.0	1210.2	1211.7	1215.0	1229.6	1229.6	1224.7	1211.7	1221.5
47.5°	1129.2	1121.2	1129.2	1139.0	1139.0	1143.9	1158.4	1169.7	1161.6	1145.5	1150.3
50°	1046.7	1048.3	1046.7	1053.2	1053.2	1071.0	1082.4	1093.7	1101.8	1082.4	1059.7
52.5°	965.8	964.2	965.8	970.7	977.2	985.3	1004.7	1016.0	1028.9	1017.7	982.0
55°	885.0	888.2	885.0	886.6	889.8	894.7	923.8	935.2	959.3	944.8	907.6
57.5°	804.1	799.2	804.1	807.3	809.0	813.7	838.0	859.1	873.7	875.2	830.0
60°	710.2	703.8	710.2	724.8	728.0	731.2	753.9	773.3	786.3	791.1	744.2
62.5°	627.7	616.4	627.7	637.5	643.9	652.0	668.1	697.3	708.6	710.2	643.9
65°	540.3	535.6	540.3	559.7	561.4	571.1	588.9	609.9	634.2	631.0	535.6
67.5°	461.1	461.1	461.1	474.1	483.7	488.6	511.3	520.9	551.7	555.0	446.5
70°	388.3	386.7	388.3	398.0	404.5	415.8	436.8	448.2	472.5	480.5	362.4
72.5°	318.7	317.1	318.7	326.8	333.3	343.0	360.8	373.7	394.7	404.5	281.5
75°	257.3	254.0	257.3	263.7	262.1	275.0	289.6	302.6	322.0	328.4	208.7
77.5°	197.4	197.4	197.4	203.8	203.8	216.8	223.2	239.5	250.8	260.5	153.7
80°	147.2	145.6	147.2	148.8	148.8	155.4	166.6	178.0	187.7	187.7	105.2
82.5°	103.5	100.3	103.5	103.5	103.5	106.8	113.3	116.4	122.9	127.8	66.3
85°	64.7	64.7	64.7	66.3	64.7	68.0	69.6	72.8	72.8	69.6	40.4
87.5°	42.1	40.4	42.1	40.4	40.4	38.8	38.8	38.8	37.2	35.6	22.7
90°	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2	4.2	2.7
92.5°	14.5	11.7	14.5	17.4	18.2	25.8	35.9	41.0	36.0	26.0	18.5
95°	50.9	42.1	50.9	59.6	61.8	81.1	106.9	119.8	101.1	64.0	36.0
97.5°	121.7	105.1	121.7	138.3	142.5	154.8	171.1	179.2	148.2	86.1	39.6
100°	175.4	155.5	175.4	195.2	200.2	199.3	198.1	197.5	163.1	94.2	42.5
102.5°	228.1	211.1	228.1	245.1	249.4	233.8	213.1	202.7	167.8	97.9	45.5
105°	295.5	286.3	295.5	304.6	306.9	272.0	225.4	202.1	168.3	100.7	49.9
107.5°	339.6	341.8	339.6	337.4	336.8	288.0	223.1	190.6	160.8	101.1	56.4
110°	356.3	365.9	356.3	346.8	344.4	290.0	217.4	181.1	154.2	100.4	60.0



TEST NUMBER: P934110

CATALOG NUMBER: SQ4-FA-025U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	357.8	372.5	357.8	343.2	339.6	283.8	209.6	172.4	148.4	100.4	64.4
115°	348.4	368.6	348.4	328.0	322.9	269.3	197.7	161.9	141.8	101.3	71.0
117.5°	328.2	350.8	328.2	305.7	300.1	251.6	187.1	154.8	137.6	103.2	77.4
120°	312.0	333.8	312.0	290.1	284.7	240.4	181.4	151.8	136.1	104.7	81.2
122.5°	296.2	317.8	296.2	274.6	269.2	229.3	176.2	149.6	135.4	106.9	85.6
125°	273.7	293.6	273.7	253.8	248.8	215.0	169.8	147.2	134.8	109.9	91.3
127.5°	253.4	270.2	253.4	236.7	232.5	203.4	164.6	145.2	134.4	112.9	96.7
130°	241.5	257.0	241.5	226.0	222.2	196.3	161.8	144.5	134.7	115.1	100.4
132.5°	230.7	244.5	230.7	216.8	213.4	190.1	159.3	143.8	134.8	116.8	103.3
135°	215.9	227.8	215.9	203.8	200.9	181.4	155.5	142.6	134.7	118.7	106.8
137.5°	203.9	213.8	203.9	194.2	191.7	175.2	153.3	142.4	135.5	121.6	111.2
140°	195.7	204.9	195.7	186.6	184.3	170.2	151.2	141.8	135.7	123.3	114.1
142.5°	189.0	196.8	189.0	181.2	179.2	166.7	150.1	141.8	136.1	124.9	116.3
145°	178.9	184.8	178.9	172.9	171.4	161.2	147.6	140.8	136.1	126.8	119.7
147.5°	171.0	176.0	171.0	166.2	164.9	156.9	146.2	140.8	137.1	129.5	123.9
150°	166.2	170.2	166.2	162.1	161.2	154.4	145.3	140.8	137.6	131.0	126.1
152.5°	161.9	165.0	161.9	159.0	158.2	152.4	144.6	140.8	137.9	131.9	127.5
155°	157.2	159.2	157.2	155.2	154.7	150.1	143.9	140.8	138.5	134.0	130.7
157.5°	153.3	154.8	153.3	151.9	151.5	148.0	143.2	140.8	139.3	136.1	133.8
160°	151.0	151.8	151.0	150.2	150.0	146.9	142.8	140.8	139.6	137.1	135.3
162.5°	149.5	150.3	149.5	148.8	148.6	146.0	142.5	140.8	140.0	138.1	136.8
165°	147.4	148.2	147.4	146.6	146.4	144.5	142.1	140.8	140.4	139.6	139.0
167.5°	145.8	146.2	145.8	145.5	145.4	144.2	142.5	141.8	141.4	140.7	140.2
170°	145.4	145.4	145.4	145.4	145.4	144.2	142.5	141.8	141.8	141.7	141.7
172.5°	144.3	144.0	144.3	144.5	144.6	143.7	142.4	141.8	141.8	141.8	141.8
175°	143.6	143.6	143.6	143.6	143.6	143.0	142.2	141.8	142.0	142.3	142.6
177.5°	143.0	142.6	143.0	143.3	143.4	142.9	142.3	142.0	142.2	142.4	142.6
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6



TEST NUMBER: P934110

CATALOG NUMBER: SQ4-FA-025U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1734.4	1724.6	1724.6	1708.5	1702.0	1697.1	1689.1	1664.8	1658.3	1651.9	1661.5
5°	1748.9	1731.1	1718.1	1689.1	1664.8	1655.0	1624.3	1566.1	1527.3	1498.1	1482.0
7.5°	1752.2	1729.5	1705.2	1659.9	1601.7	1575.8	1482.0	1375.2	1346.0	1320.1	1304.0
10°	1748.9	1723.0	1689.1	1621.1	1483.6	1438.3	1344.4	1274.8	1257.0	1252.3	1257.0
12.5°	1737.6	1713.3	1666.4	1553.1	1360.6	1329.9	1274.8	1234.4	1231.2	1239.3	1283.0
15°	1718.1	1695.6	1640.5	1462.6	1292.7	1270.0	1231.2	1216.6	1234.4	1291.1	1422.1
17.5°	1698.7	1672.9	1604.9	1373.6	1240.9	1224.7	1197.2	1226.4	1326.6	1402.6	1446.3
20°	1672.9	1642.1	1564.5	1308.9	1203.7	1189.2	1176.2	1307.2	1383.2	1410.8	1435.1
22.5°	1642.1	1609.8	1509.4	1263.5	1164.9	1153.5	1161.6	1352.5	1383.2	1402.6	1423.7
25°	1601.7	1574.1	1444.7	1228.0	1134.1	1121.2	1151.9	1347.7	1365.5	1370.3	1412.4
27.5°	1564.5	1528.8	1376.8	1195.6	1096.9	1092.0	1160.0	1326.6	1339.5	1344.4	1389.7
30°	1519.2	1465.7	1300.7	1161.6	1058.1	1056.5	1161.6	1300.7	1297.5	1310.5	1355.8
32.5°	1472.2	1372.0	1215.0	1119.6	1020.9	1019.3	1150.3	1261.9	1258.7	1276.5	1310.5
35°	1428.6	1299.1	1098.5	1071.0	974.0	975.6	1122.8	1216.6	1218.2	1234.4	1255.4
37.5°	1383.2	1236.0	970.7	1017.7	928.7	928.7	1085.5	1174.5	1171.3	1176.2	1205.3
40°	1329.9	1137.4	857.4	948.1	886.6	881.7	1040.3	1129.2	1117.9	1116.3	1156.8
42.5°	1273.3	1028.9	773.3	855.8	838.0	831.6	985.3	1074.3	1053.2	1058.1	1109.8
45°	1211.7	999.9	708.6	723.2	787.9	783.1	925.4	1011.2	996.6	1009.5	1063.0
47.5°	1150.3	941.6	687.6	600.3	734.5	732.9	859.1	949.7	941.6	954.6	1011.2
50°	1066.1	876.8	685.9	514.5	674.6	681.2	779.8	889.8	889.8	901.1	961.0
52.5°	957.8	797.6	622.8	466.0	605.1	624.5	710.2	838.0	841.3	852.7	906.0
55°	859.1	715.1	577.6	428.8	522.5	564.6	642.3	784.7	791.1	802.5	851.0
57.5°	768.5	595.4	567.9	385.1	446.5	487.0	582.4	732.9	736.1	745.9	792.7
60°	671.4	430.4	520.9	338.1	380.2	410.9	527.4	671.4	682.8	689.2	729.6
62.5°	561.4	312.2	472.5	305.7	347.8	354.3	482.1	613.2	627.7	632.6	656.9
65°	399.6	262.1	401.2	278.3	313.9	315.5	433.5	553.3	566.2	574.4	592.1
67.5°	270.2	213.6	305.7	252.4	287.9	289.6	386.7	483.7	501.5	508.0	519.3
70°	187.7	142.3	226.5	224.9	258.9	262.1	336.5	420.6	436.8	441.7	448.2
72.5°	137.5	114.9	187.7	202.2	228.1	231.4	284.7	349.4	365.7	370.4	373.7
75°	105.2	121.3	152.1	176.4	194.2	195.8	233.0	284.7	296.1	299.3	300.9
77.5°	84.1	113.3	111.7	142.3	158.5	155.4	182.8	220.1	229.7	229.7	229.7
80°	63.1	89.0	84.1	101.9	116.4	113.3	131.1	157.0	160.1	163.4	161.8
82.5°	46.9	56.6	56.6	64.7	77.6	74.4	87.4	101.9	101.9	101.9	105.2
85°	29.2	32.3	25.9	33.9	43.7	42.1	48.6	55.0	56.6	56.6	53.3
87.5°	17.8	14.5	8.1	12.9	19.4	19.4	22.7	24.3	22.7	22.7	22.7
90°	2.5	1.7	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9
92.5°	16.8	10.3	3.8	10.3	16.8	18.5	26.0	36.0	41.0	35.9	25.8
95°	33.1	21.1	9.2	21.1	33.1	36.0	64.0	101.1	119.8	106.9	81.1
97.5°	36.9	26.4	15.9	26.4	36.9	39.6	86.1	148.2	179.2	171.1	154.8
100°	40.2	30.6	21.0	30.6	40.2	42.5	94.2	163.1	197.5	198.1	199.3
102.5°	43.3	34.3	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.8
105°	48.0	40.5	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.4	272.0
107.5°	54.7	47.6	40.6	47.6	54.7	56.4	101.1	160.8	190.6	223.1	288.0
110°	58.4	52.1	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0



TEST NUMBER: P934110

CATALOG NUMBER: SQ4-FA-025U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	62.9	56.9	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.8
115°	69.6	64.1	58.5	64.1	69.6	71.0	101.3	141.8	161.9	197.7	269.3
117.5°	76.2	71.1	66.1	71.1	76.2	77.4	103.2	137.6	154.8	187.1	251.6
120°	80.0	75.2	70.5	75.2	80.0	81.2	104.7	136.1	151.8	181.4	240.4
122.5°	84.3	79.5	74.8	79.5	84.3	85.6	106.9	135.4	149.6	176.2	229.3
125°	90.2	85.8	81.4	85.8	90.2	91.3	109.9	134.8	147.2	169.8	215.0
127.5°	95.6	91.2	86.7	91.2	95.6	96.7	112.9	134.4	145.2	164.6	203.4
130°	99.1	94.4	89.6	94.4	99.1	100.4	115.1	134.7	144.5	161.8	196.3
132.5°	102.2	97.4	92.6	97.4	102.2	103.3	116.8	134.8	143.8	159.3	190.1
135°	105.7	101.3	97.0	101.3	105.7	106.8	118.7	134.7	142.6	155.5	181.4
137.5°	110.1	105.8	101.5	105.8	110.1	111.2	121.6	135.5	142.4	153.3	175.2
140°	113.2	109.2	105.3	109.2	113.2	114.1	123.3	135.7	141.8	151.2	170.2
142.5°	115.4	111.8	108.1	111.8	115.4	116.3	124.9	136.1	141.8	150.1	166.7
145°	118.9	115.7	112.5	115.7	118.9	119.7	126.8	136.1	140.8	147.6	161.2
147.5°	123.1	120.0	116.9	120.0	123.1	123.9	129.5	137.1	140.8	146.2	156.9
150°	125.4	122.6	119.8	122.6	125.4	126.1	131.0	137.6	140.8	145.3	154.4
152.5°	127.0	124.9	122.8	124.9	127.0	127.5	131.9	137.9	140.8	144.6	152.4
155°	130.3	128.7	127.1	128.7	130.3	130.7	134.0	138.5	140.8	143.9	150.1
157.5°	133.5	131.9	130.4	131.9	133.5	133.8	136.1	139.3	140.8	143.2	148.0
160°	135.0	133.7	132.6	133.7	135.0	135.3	137.1	139.6	140.8	142.8	146.9
162.5°	136.6	135.7	134.8	135.7	136.6	136.8	138.1	140.0	140.8	142.5	146.0
165°	138.8	138.0	137.2	138.0	138.8	139.0	139.6	140.4	140.8	142.1	144.5
167.5°	140.1	139.8	139.4	139.8	140.1	140.2	140.7	141.4	141.8	142.5	144.2
170°	141.6	141.2	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.5	144.2
172.5°	141.8	141.7	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.4	143.7
175°	142.6	142.6	142.6	142.6	142.6	142.6	142.3	142.0	141.8	142.2	143.0
177.5°	142.6	142.6	142.6	142.6	142.6	142.6	142.4	142.2	142.0	142.3	142.9
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6



TEST NUMBER: P934110
 CATALOG NUMBER: SQ4-FA-025U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1650.2	1645.4	1651.9	1634.0	1651.9	1645.4	1650.2	1661.5	1651.9	1658.3	1664.8
5°	1448.0	1439.9	1414.0	1393.0	1414.0	1439.9	1448.0	1482.0	1498.1	1527.3	1566.1
7.5°	1294.3	1287.8	1281.3	1268.4	1281.3	1287.8	1294.3	1304.0	1320.1	1346.0	1375.2
10°	1260.3	1261.9	1271.7	1270.0	1271.7	1261.9	1260.3	1257.0	1252.3	1257.0	1274.8
12.5°	1347.7	1362.2	1415.6	1412.4	1415.6	1362.2	1347.7	1283.0	1239.3	1231.2	1234.4
15°	1448.0	1452.8	1464.2	1465.7	1464.2	1452.8	1448.0	1422.1	1291.1	1234.4	1216.6
17.5°	1457.7	1459.3	1467.4	1467.4	1467.4	1459.3	1457.7	1446.3	1402.6	1326.6	1226.4
20°	1449.6	1452.8	1469.0	1472.2	1469.0	1452.8	1449.6	1435.1	1410.8	1383.2	1307.2
22.5°	1446.3	1452.8	1465.7	1464.2	1465.7	1452.8	1446.3	1423.7	1402.6	1383.2	1352.5
25°	1430.2	1430.2	1431.8	1433.4	1431.8	1430.2	1430.2	1412.4	1370.3	1365.5	1347.7
27.5°	1396.2	1399.5	1409.1	1407.5	1409.1	1399.5	1396.2	1389.7	1344.4	1339.5	1326.6
30°	1365.5	1362.2	1354.2	1347.7	1354.2	1362.2	1365.5	1355.8	1310.5	1297.5	1300.7
32.5°	1313.7	1305.6	1297.5	1292.7	1297.5	1305.6	1313.7	1310.5	1276.5	1258.7	1261.9
35°	1252.3	1253.8	1252.3	1247.4	1252.3	1253.8	1252.3	1255.4	1234.4	1218.2	1216.6
37.5°	1208.6	1211.7	1210.2	1203.7	1210.2	1211.7	1208.6	1205.3	1176.2	1171.3	1174.5
40°	1163.3	1164.9	1163.3	1158.4	1163.3	1164.9	1163.3	1156.8	1116.3	1117.9	1129.2
42.5°	1119.6	1117.9	1113.1	1109.8	1113.1	1117.9	1119.6	1109.8	1058.1	1053.2	1074.3
45°	1069.4	1071.0	1061.4	1056.5	1061.4	1071.0	1069.4	1063.0	1009.5	996.6	1011.2
47.5°	1019.3	1019.3	1011.2	1006.3	1011.2	1019.3	1019.3	1011.2	954.6	941.6	949.7
50°	965.8	964.2	952.9	951.3	952.9	964.2	965.8	961.0	901.1	889.8	889.8
52.5°	904.4	904.4	906.0	909.3	906.0	904.4	904.4	906.0	852.7	841.3	838.0
55°	851.0	852.7	863.9	867.2	863.9	852.7	851.0	851.0	802.5	791.1	784.7
57.5°	796.0	796.0	804.1	804.1	804.1	796.0	796.0	792.7	745.9	736.1	732.9
60°	732.9	736.1	742.6	741.0	742.6	736.1	732.9	729.6	689.2	682.8	671.4
62.5°	666.5	669.8	671.4	668.1	671.4	669.8	666.5	656.9	632.6	627.7	613.2
65°	597.0	600.3	601.8	598.6	601.8	600.3	597.0	592.1	574.4	566.2	553.3
67.5°	525.8	524.2	522.5	529.1	522.5	524.2	525.8	519.3	508.0	501.5	483.7
70°	453.0	453.0	451.4	454.6	451.4	453.0	453.0	448.2	441.7	436.8	420.6
72.5°	375.3	373.7	380.2	375.3	380.2	373.7	375.3	373.7	370.4	365.7	349.4
75°	299.3	302.6	299.3	304.2	299.3	302.6	299.3	300.9	299.3	296.1	284.7
77.5°	228.1	231.4	228.1	228.1	228.1	231.4	228.1	229.7	229.7	229.7	220.1
80°	161.8	160.1	160.1	158.5	160.1	160.1	161.8	161.8	163.4	160.1	157.0
82.5°	103.5	101.9	101.9	105.2	101.9	101.9	103.5	105.2	101.9	101.9	101.9
85°	56.6	58.2	55.0	55.0	55.0	58.2	56.6	53.3	56.6	56.6	55.0
87.5°	21.0	19.4	19.4	19.4	19.4	19.4	21.0	22.7	22.7	22.7	24.3
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2
92.5°	18.2	17.4	14.5	11.7	14.5	17.4	18.2	25.8	35.9	41.0	36.0
95°	61.8	59.6	50.9	42.1	50.9	59.6	61.8	81.1	106.9	119.8	101.1
97.5°	142.5	138.3	121.7	105.1	121.7	138.3	142.5	154.8	171.1	179.2	148.2
100°	200.2	195.2	175.4	155.5	175.4	195.2	200.2	199.3	198.1	197.5	163.1
102.5°	249.4	245.1	228.1	211.1	228.1	245.1	249.4	233.8	213.1	202.7	167.8
105°	306.9	304.6	295.5	286.3	295.5	304.6	306.9	272.0	225.4	202.1	168.3
107.5°	336.8	337.4	339.6	341.8	339.6	337.4	336.8	288.0	223.1	190.6	160.8
110°	344.4	346.8	356.3	365.9	356.3	346.8	344.4	290.0	217.4	181.1	154.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	339.6	343.2	357.8	372.5	357.8	343.2	339.6	283.8	209.6	172.4	148.4
115°	322.9	328.0	348.4	368.6	348.4	328.0	322.9	269.3	197.7	161.9	141.8
117.5°	300.1	305.7	328.2	350.8	328.2	305.7	300.1	251.6	187.1	154.8	137.6
120°	284.7	290.1	312.0	333.8	312.0	290.1	284.7	240.4	181.4	151.8	136.1
122.5°	269.2	274.6	296.2	317.8	296.2	274.6	269.2	229.3	176.2	149.6	135.4
125°	248.8	253.8	273.7	293.6	273.7	253.8	248.8	215.0	169.8	147.2	134.8
127.5°	232.5	236.7	253.4	270.2	253.4	236.7	232.5	203.4	164.6	145.2	134.4
130°	222.2	226.0	241.5	257.0	241.5	226.0	222.2	196.3	161.8	144.5	134.7
132.5°	213.4	216.8	230.7	244.5	230.7	216.8	213.4	190.1	159.3	143.8	134.8
135°	200.9	203.8	215.9	227.8	215.9	203.8	200.9	181.4	155.5	142.6	134.7
137.5°	191.7	194.2	203.9	213.8	203.9	194.2	191.7	175.2	153.3	142.4	135.5
140°	184.3	186.6	195.7	204.9	195.7	186.6	184.3	170.2	151.2	141.8	135.7
142.5°	179.2	181.2	189.0	196.8	189.0	181.2	179.2	166.7	150.1	141.8	136.1
145°	171.4	172.9	178.9	184.8	178.9	172.9	171.4	161.2	147.6	140.8	136.1
147.5°	164.9	166.2	171.0	176.0	171.0	166.2	164.9	156.9	146.2	140.8	137.1
150°	161.2	162.1	166.2	170.2	166.2	162.1	161.2	154.4	145.3	140.8	137.6
152.5°	158.2	159.0	161.9	165.0	161.9	159.0	158.2	152.4	144.6	140.8	137.9
155°	154.7	155.2	157.2	159.2	157.2	155.2	154.7	150.1	143.9	140.8	138.5
157.5°	151.5	151.9	153.3	154.8	153.3	151.9	151.5	148.0	143.2	140.8	139.3
160°	150.0	150.2	151.0	151.8	151.0	150.2	150.0	146.9	142.8	140.8	139.6
162.5°	148.6	148.8	149.5	150.3	149.5	148.8	148.6	146.0	142.5	140.8	140.0
165°	146.4	146.6	147.4	148.2	147.4	146.6	146.4	144.5	142.1	140.8	140.4
167.5°	145.4	145.5	145.8	146.2	145.8	145.5	145.4	144.2	142.5	141.8	141.4
170°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	144.2	142.5	141.8	141.8
172.5°	144.6	144.5	144.3	144.0	144.3	144.5	144.6	143.7	142.4	141.8	141.8
175°	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.0	142.2	141.8	142.0
177.5°	143.4	143.3	143.0	142.6	143.0	143.3	143.4	142.9	142.3	142.0	142.2
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1689.1	1697.1	1702.0	1708.5	1724.6
5°	1624.3	1655.0	1664.8	1689.1	1718.1
7.5°	1482.0	1575.8	1601.7	1659.9	1705.2
10°	1344.4	1438.3	1483.6	1621.1	1689.1
12.5°	1274.8	1329.9	1360.6	1553.1	1666.4
15°	1231.2	1270.0	1292.7	1462.6	1640.5
17.5°	1197.2	1224.7	1240.9	1373.6	1604.9
20°	1176.2	1189.2	1203.7	1308.9	1564.5
22.5°	1161.6	1153.5	1164.9	1263.5	1509.4
25°	1151.9	1121.2	1134.1	1228.0	1444.7
27.5°	1160.0	1092.0	1096.9	1195.6	1376.8
30°	1161.6	1056.5	1058.1	1161.6	1300.7
32.5°	1150.3	1019.3	1020.9	1119.6	1215.0
35°	1122.8	975.6	974.0	1071.0	1098.5
37.5°	1085.5	928.7	928.7	1017.7	970.7
40°	1040.3	881.7	886.6	948.1	857.4
42.5°	985.3	831.6	838.0	855.8	773.3
45°	925.4	783.1	787.9	723.2	708.6
47.5°	859.1	732.9	734.5	600.3	687.6
50°	779.8	681.2	674.6	514.5	685.9
52.5°	710.2	624.5	605.1	466.0	622.8
55°	642.3	564.6	522.5	428.8	577.6
57.5°	582.4	487.0	446.5	385.1	567.9
60°	527.4	410.9	380.2	338.1	520.9
62.5°	482.1	354.3	347.8	305.7	472.5
65°	433.5	315.5	313.9	278.3	401.2
67.5°	386.7	289.6	287.9	252.4	305.7
70°	336.5	262.1	258.9	224.9	226.5
72.5°	284.7	231.4	228.1	202.2	187.7
75°	233.0	195.8	194.2	176.4	152.1
77.5°	182.8	155.4	158.5	142.3	111.7
80°	131.1	113.3	116.4	101.9	84.1
82.5°	87.4	74.4	77.6	64.7	56.6
85°	48.6	42.1	43.7	33.9	25.9
87.5°	22.7	19.4	19.4	12.9	8.1
90°	4.2	2.7	2.5	1.7	1.0
92.5°	26.0	18.5	16.8	10.3	3.8
95°	64.0	36.0	33.1	21.1	9.2
97.5°	86.1	39.6	36.9	26.4	15.9
100°	94.2	42.5	40.2	30.6	21.0
102.5°	97.9	45.5	43.3	34.3	25.4
105°	100.7	49.9	48.0	40.5	33.0
107.5°	101.1	56.4	54.7	47.6	40.6
110°	100.4	60.0	58.4	52.1	45.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	100.4	64.4	62.9	56.9	50.9
115°	101.3	71.0	69.6	64.1	58.5
117.5°	103.2	77.4	76.2	71.1	66.1
120°	104.7	81.2	80.0	75.2	70.5
122.5°	106.9	85.6	84.3	79.5	74.8
125°	109.9	91.3	90.2	85.8	81.4
127.5°	112.9	96.7	95.6	91.2	86.7
130°	115.1	100.4	99.1	94.4	89.6
132.5°	116.8	103.3	102.2	97.4	92.6
135°	118.7	106.8	105.7	101.3	97.0
137.5°	121.6	111.2	110.1	105.8	101.5
140°	123.3	114.1	113.2	109.2	105.3
142.5°	124.9	116.3	115.4	111.8	108.1
145°	126.8	119.7	118.9	115.7	112.5
147.5°	129.5	123.9	123.1	120.0	116.9
150°	131.0	126.1	125.4	122.6	119.8
152.5°	131.9	127.5	127.0	124.9	122.8
155°	134.0	130.7	130.3	128.7	127.1
157.5°	136.1	133.8	133.5	131.9	130.4
160°	137.1	135.3	135.0	133.7	132.6
162.5°	138.1	136.8	136.6	135.7	134.8
165°	139.6	139.0	138.8	138.0	137.2
167.5°	140.7	140.2	140.1	139.8	139.4
170°	141.7	141.7	141.6	141.2	140.8
172.5°	141.8	141.8	141.8	141.7	141.6
175°	142.3	142.6	142.6	142.6	142.6
177.5°	142.4	142.6	142.6	142.6	142.6
180°	142.6	142.6	142.6	142.6	142.6



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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	17.01	18.27	17.62	18.89	19.60	19.81	21.07	20.42	21.69	22.40
	3H	17.51	18.65	18.14	19.28	20.03	21.17	22.30	21.80	22.94	23.69
	4H	17.72	18.79	18.37	19.44	20.20	21.63	22.69	22.27	23.34	24.10
	6H	17.86	18.85	18.52	19.51	20.28	21.92	22.91	22.59	23.57	24.34
	8H	17.88	18.82	18.55	19.50	20.27	22.01	22.94	22.68	23.62	24.40
	12H	17.86	18.76	18.54	19.43	20.24	22.05	22.95	22.73	23.62	24.43
4H	2H	18.08	19.15	18.73	19.80	20.56	20.26	21.33	20.91	21.98	22.74
	3H	19.14	20.03	19.81	20.72	21.50	21.80	22.69	22.46	23.37	24.15
	4H	19.44	20.24	20.12	20.93	21.74	22.33	23.14	23.01	23.83	24.64
	6H	19.58	20.28	20.28	21.00	21.82	22.71	23.41	23.41	24.13	24.95
	8H	19.60	20.25	20.30	20.97	21.80	22.82	23.48	23.53	24.19	25.03
	12H	19.58	20.17	20.31	20.91	21.75	22.90	23.48	23.62	24.22	25.06
8H	4H	19.92	20.57	20.62	21.28	22.12	22.49	23.15	23.20	23.86	24.69
	6H	20.19	20.74	20.93	21.49	22.33	22.94	23.48	23.67	24.23	25.07
	8H	20.24	20.72	20.99	21.48	22.33	23.09	23.57	23.84	24.33	25.18
	12H	20.24	20.67	20.99	21.42	22.33	23.20	23.62	23.95	24.37	25.28
12H	4H	19.94	20.53	20.67	21.27	22.10	22.47	23.06	23.20	23.80	24.64
	6H	20.26	20.74	21.01	21.50	22.35	22.94	23.42	23.68	24.18	25.03
	8H	20.34	20.77	21.09	21.52	22.43	23.11	23.54	23.86	24.29	25.20