

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: P935736

Luminaire Tested: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935736
REPORT IS A COMBINATION OF REPORTS P933766 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

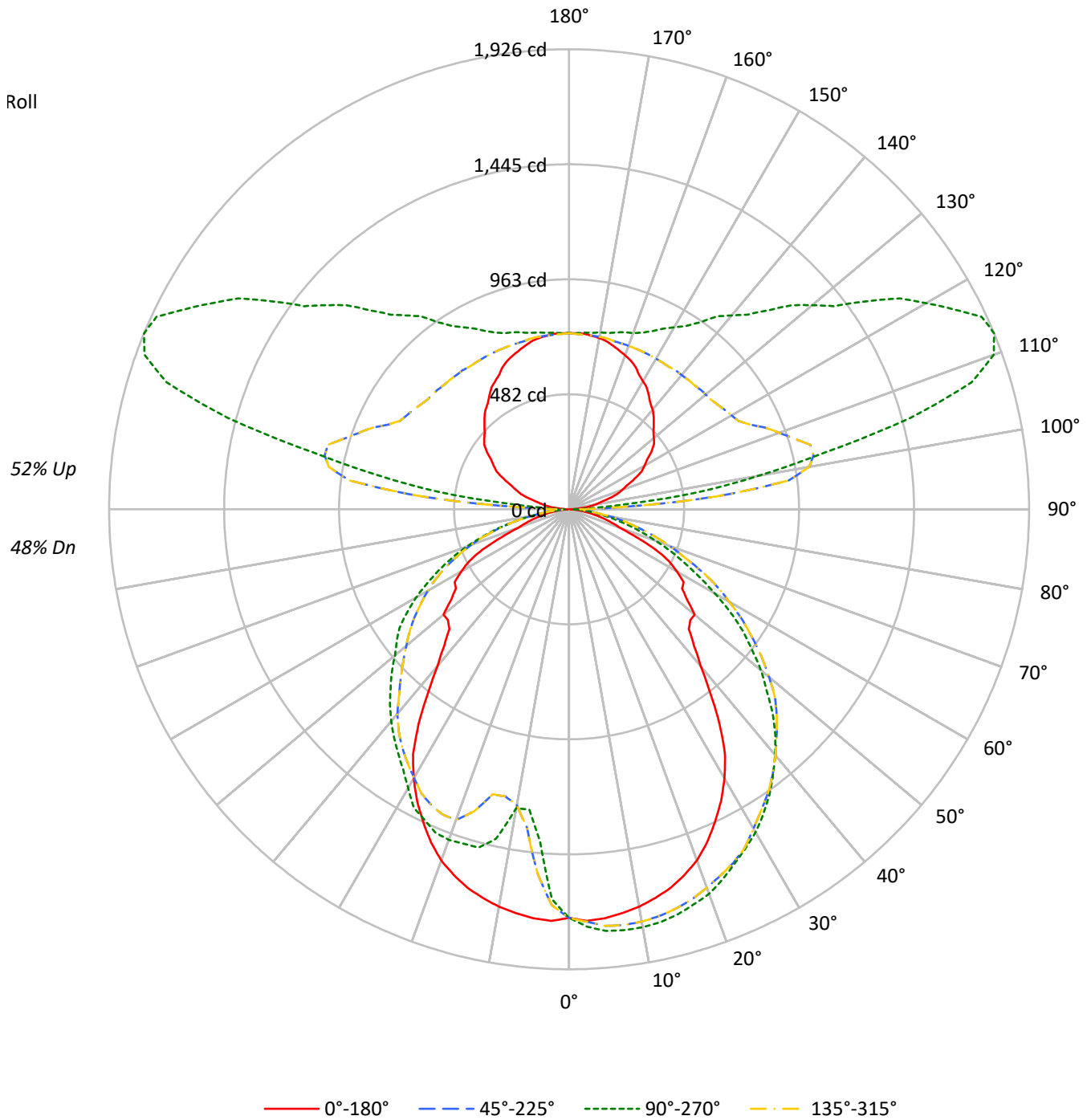
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9219.6 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15871	15871	15871	15871
5°	15972	16021	15972	12598
10°	15848	15782	15848	11283
15°	15658	15441	15658	12892
20°	15313	15035	15313	12919
25°	14624	14444	14624	12646
30°	13742	13954	13742	12045
35°	12233	13334	12233	11384
40°	10175	12602	10175	10885
45°	9073	11748	9073	10311
50°	9618	10729	9618	9735
55°	9024	9630	9024	9402
60°	9268	8179	9268	8611
65°	8363	6762	8363	7558
70°	5750	5389	5750	6335
75°	4988	3984	4988	4771
80°	3936	2632	3936	2866
85°	2145	1394	2145	1185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	1.7
10°-20°	438.4	4.8
20°-30°	677.6	7.3
30°-40°	809.0	8.8
40°-50°	813.7	8.8
50°-60°	708.0	7.7
60°-70°	502.0	5.4
70°-80°	265.6	2.9
80°-90°	69.0	0.7
90°-100°	359.6	3.9
100°-110°	945.4	10.3
110°-120°	980.2	10.6
120°-130°	786.3	8.5
130°-140°	616.9	6.7
140°-150°	473.5	5.1
150°-160°	341.0	3.7
160°-170°	208.7	2.3
170°-180°	70.5	0.8
0°-30°	1270.4	13.8
0°-40°	2079.4	22.6
0°-60°	3601.1	39.1
0°-90°	4437.6	48.1
90°-120°	2285.1	24.8
90°-150°	4161.8	45.1
90°-180°	4782.0	51.9
0°-180°	9219.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1710	1710	1710	1710	1710	
5°	1718	1772	1718	1393	1718	163
15°	1641	1756	1641	1466	1641	462
25°	1445	1638	1445	1434	1445	663
35°	1099	1461	1099	1248	1099	680
45°	709	1204	709	1057	709	568
55°	578	888	578	867	578	531
65°	401	536	401	599	401	384
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	5	19	5	19	5	5
95°	48	217	48	217	48	53
105°	170	1480	170	1480	170	181
115°	302	1906	302	1906	302	299
125°	421	1518	421	1518	421	374
135°	502	1178	502	1178	502	388
145°	582	956	582	956	582	364
155°	658	823	658	823	658	302
165°	709	766	709	766	709	200
175°	738	743	738	743	738	70
180°	738	738	738	738	738	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1725.0	1725.0	1734.7	1738.0	1738.0	1733.1	1728.2	1733.1	1747.6	1752.5	1750.9
5°	1718.5	1731.5	1749.3	1752.5	1755.8	1754.1	1750.9	1754.1	1770.3	1773.5	1775.2
7.5°	1705.6	1729.8	1752.5	1757.4	1762.2	1757.4	1755.8	1759.0	1775.2	1778.4	1778.4
10°	1689.4	1723.3	1749.3	1752.5	1757.4	1752.5	1752.5	1759.0	1775.2	1778.4	1780.0
12.5°	1666.7	1713.7	1738.0	1741.1	1747.6	1746.0	1744.4	1750.9	1767.0	1770.3	1770.3
15°	1640.8	1695.9	1718.5	1721.7	1733.1	1729.8	1729.8	1736.4	1754.1	1759.0	1757.4
17.5°	1605.3	1673.2	1699.1	1703.9	1712.1	1710.4	1712.1	1718.5	1734.7	1738.0	1739.5
20°	1564.8	1642.5	1673.2	1678.0	1686.2	1686.2	1686.2	1694.3	1710.4	1716.9	1716.9
22.5°	1509.7	1610.1	1642.5	1645.7	1655.4	1655.4	1658.6	1670.0	1684.5	1686.2	1686.2
25°	1445.0	1574.5	1602.0	1611.8	1621.4	1626.3	1631.2	1637.6	1642.5	1640.8	1642.5
27.5°	1377.1	1529.1	1564.8	1571.2	1584.2	1589.1	1595.5	1597.1	1598.8	1603.6	1600.4
30°	1301.0	1466.0	1519.5	1526.0	1547.0	1550.2	1543.8	1547.0	1555.1	1558.3	1561.6
32.5°	1215.2	1372.2	1472.5	1487.1	1506.6	1496.8	1495.2	1500.1	1513.0	1513.0	1516.2
35°	1098.8	1299.4	1428.8	1441.8	1456.4	1445.0	1451.5	1453.1	1461.3	1466.0	1464.5
37.5°	970.9	1236.3	1383.5	1393.3	1404.6	1390.0	1399.8	1404.6	1411.1	1407.8	1407.8
40°	857.6	1137.6	1330.2	1336.7	1346.3	1335.0	1344.7	1347.9	1351.2	1347.9	1346.3
42.5°	773.5	1029.2	1273.6	1281.6	1275.1	1283.2	1286.5	1293.0	1288.1	1281.6	1281.6
45°	708.7	1000.1	1212.0	1221.7	1212.0	1225.0	1229.9	1229.9	1215.2	1212.0	1210.4
47.5°	687.7	941.8	1150.5	1150.5	1145.7	1161.9	1169.9	1158.6	1144.1	1139.2	1139.2
50°	686.1	877.0	1066.3	1059.9	1082.6	1102.0	1093.9	1082.6	1071.2	1053.4	1053.4
52.5°	623.0	797.8	958.0	982.2	1017.9	1029.2	1016.2	1004.9	985.5	977.4	970.9
55°	577.7	715.2	859.2	907.8	945.0	959.5	935.3	924.0	894.9	890.0	886.8
57.5°	568.0	595.5	768.7	830.2	875.4	873.9	859.2	838.2	813.9	809.1	807.5
60°	521.0	430.5	671.5	744.4	791.2	786.5	773.5	754.1	731.4	728.1	725.0
62.5°	472.6	312.3	561.5	644.0	710.4	708.7	697.4	668.3	652.1	644.0	637.6
65°	401.3	262.2	399.7	535.7	631.1	634.3	610.1	589.0	571.2	561.5	559.9
67.5°	305.8	213.6	270.2	446.6	555.1	551.8	521.0	511.4	488.7	483.8	474.2
70°	226.5	142.4	187.7	362.5	480.6	472.6	448.3	436.9	415.8	404.6	398.1
72.5°	187.7	114.9	137.5	281.6	404.6	394.8	373.8	360.9	343.1	333.3	326.8
75°	152.1	121.3	105.2	208.7	328.5	322.0	302.6	289.6	275.1	262.2	263.7
77.5°	111.7	113.3	84.1	153.8	260.6	250.8	239.5	223.3	216.9	203.9	203.9
80°	84.1	89.0	63.1	105.2	187.7	187.7	178.0	166.7	155.4	148.9	148.9
82.5°	56.6	56.6	46.9	66.4	127.8	123.0	116.5	113.3	106.8	103.6	103.6
85°	25.9	32.3	29.2	40.4	69.6	72.9	72.9	69.6	68.0	64.7	66.4
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°	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.1	18.8	18.8
92.5°	19.8	53.5	87.1	95.5	134.3	186.1	211.9	185.7	133.4	94.1	90.4
95°	47.5	109.1	170.8	186.2	330.6	523.0	619.3	552.7	419.4	319.4	308.0
97.5°	82.1	136.4	190.9	204.4	445.2	766.2	926.7	884.6	800.3	737.1	715.6
100°	108.9	158.2	207.5	219.8	487.0	843.2	1021.3	1024.4	1030.6	1035.2	1009.5
102.5°	131.7	177.7	223.7	235.1	506.1	867.5	1048.1	1101.8	1209.2	1289.7	1267.7
105°	170.3	209.3	248.2	258.0	520.4	870.2	1045.1	1165.5	1406.2	1586.7	1574.8
107.5°	209.9	246.2	282.6	291.6	523.0	831.5	985.7	1153.6	1489.4	1741.1	1744.0
110°	236.7	269.5	302.2	310.4	519.0	797.2	936.2	1123.9	1499.3	1780.8	1793.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.9	294.1	325.3	333.1	519.1	767.2	891.2	1083.3	1467.5	1755.6	1774.5
115°	302.4	331.3	360.2	367.4	524.0	732.7	837.1	1022.2	1392.3	1669.9	1696.1
117.5°	341.6	367.8	394.0	400.5	533.7	711.3	800.0	967.0	1301.0	1551.5	1580.6
120°	364.4	389.1	413.7	419.9	541.7	704.0	785.2	937.8	1243.0	1471.9	1500.2
122.5°	386.7	411.5	436.4	442.6	553.1	700.2	773.8	911.3	1186.1	1392.1	1420.0
125°	420.8	443.5	466.1	471.8	568.4	697.1	761.4	878.2	1111.6	1286.7	1312.4
127.5°	448.6	471.4	494.3	500.0	583.7	695.2	751.0	851.2	1051.7	1202.0	1223.7
130°	463.4	488.0	512.7	518.8	594.9	696.4	747.1	836.3	1014.7	1148.6	1168.6
132.5°	478.8	503.4	528.1	534.2	604.0	697.1	743.6	823.5	983.3	1103.1	1120.9
135°	501.5	524.0	546.4	552.0	613.9	696.4	737.7	804.6	938.4	1038.7	1054.2
137.5°	524.8	546.9	569.2	574.8	628.7	700.7	736.7	793.2	906.3	991.1	1003.7
140°	544.1	564.5	585.0	590.2	637.9	701.5	733.2	782.1	879.8	953.0	964.9
142.5°	558.9	577.8	596.8	601.5	645.4	703.9	733.2	776.1	861.9	926.3	936.4
145°	581.7	598.2	614.7	618.8	655.3	703.9	728.2	763.3	833.5	886.2	893.9
147.5°	604.5	620.6	636.6	640.6	669.8	708.7	728.2	755.9	811.1	852.5	858.9
150°	619.3	633.9	648.4	652.0	677.5	711.3	728.2	751.6	798.2	833.2	838.4
152.5°	634.7	645.7	656.7	659.5	682.4	712.9	728.2	748.1	788.0	817.8	821.8
155°	657.5	665.6	673.7	675.7	693.2	716.6	728.2	744.1	775.8	799.6	802.2
157.5°	674.3	682.2	690.1	692.1	704.1	720.2	728.2	740.6	765.2	783.7	785.5
160°	685.7	691.8	698.0	699.6	709.1	721.8	728.2	738.8	759.9	775.8	776.8
162.5°	697.1	701.7	706.3	707.5	714.4	723.6	728.2	737.1	755.0	768.4	769.4
165°	709.4	713.6	717.8	718.9	722.0	726.1	728.2	734.6	747.4	756.9	758.0
167.5°	720.9	722.8	724.8	725.3	727.9	731.5	733.2	737.4	745.7	752.0	752.5
170°	728.2	730.2	732.3	732.7	732.9	733.1	733.2	737.4	745.7	752.0	752.0
172.5°	732.3	732.6	733.1	733.2	733.2	733.2	733.2	736.5	743.1	748.0	747.6
175°	737.7	737.7	737.7	737.7	736.2	734.2	733.2	735.3	739.4	742.6	742.6
177.5°	737.7	737.7	737.7	737.7	736.6	734.9	734.2	735.8	739.1	741.6	741.1
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1754.1	1749.3	1754.1	1750.9	1752.5	1747.6	1733.1	1728.2	1733.1	1738.0	1738.0
5°	1775.2	1771.9	1775.2	1775.2	1773.5	1770.3	1754.1	1750.9	1754.1	1755.8	1752.5
7.5°	1781.6	1776.8	1781.6	1778.4	1778.4	1775.2	1759.0	1755.8	1757.4	1762.2	1757.4
10°	1781.6	1776.8	1781.6	1780.0	1778.4	1775.2	1759.0	1752.5	1752.5	1757.4	1752.5
12.5°	1773.5	1770.3	1773.5	1770.3	1770.3	1767.0	1750.9	1744.4	1746.0	1747.6	1741.1
15°	1760.5	1755.8	1760.5	1757.4	1759.0	1754.1	1736.4	1729.8	1729.8	1733.1	1721.7
17.5°	1741.1	1734.7	1741.1	1739.5	1738.0	1734.7	1718.5	1712.1	1710.4	1712.1	1703.9
20°	1718.5	1713.7	1718.5	1716.9	1716.9	1710.4	1694.3	1686.2	1686.2	1686.2	1678.0
22.5°	1682.9	1678.0	1682.9	1686.2	1686.2	1684.5	1670.0	1658.6	1655.4	1655.4	1645.7
25°	1642.5	1637.6	1642.5	1642.5	1640.8	1642.5	1637.6	1631.2	1626.3	1621.4	1611.8
27.5°	1603.6	1600.4	1603.6	1600.4	1603.6	1598.8	1597.1	1595.5	1589.1	1584.2	1571.2
30°	1564.8	1561.6	1564.8	1561.6	1558.3	1555.1	1547.0	1543.8	1550.2	1547.0	1526.0
32.5°	1516.2	1513.0	1516.2	1516.2	1513.0	1513.0	1500.1	1495.2	1496.8	1506.6	1487.1
35°	1466.0	1461.3	1466.0	1464.5	1466.0	1461.3	1453.1	1451.5	1445.0	1456.4	1441.8
37.5°	1407.8	1402.9	1407.8	1407.8	1407.8	1411.1	1404.6	1399.8	1390.0	1404.6	1393.3
40°	1347.9	1341.4	1347.9	1346.3	1347.9	1351.2	1347.9	1344.7	1335.0	1346.3	1336.7
42.5°	1280.0	1278.3	1280.0	1281.6	1281.6	1288.1	1293.0	1286.5	1283.2	1275.1	1281.6
45°	1207.2	1203.9	1207.2	1210.4	1212.0	1215.2	1229.9	1229.9	1225.0	1212.0	1221.7
47.5°	1129.5	1121.4	1129.5	1139.2	1139.2	1144.1	1158.6	1169.9	1161.9	1145.7	1150.5
50°	1046.9	1048.6	1046.9	1053.4	1053.4	1071.2	1082.6	1093.9	1102.0	1082.6	1059.9
52.5°	966.0	964.4	966.0	970.9	977.4	985.5	1004.9	1016.2	1029.2	1017.9	982.2
55°	885.1	888.4	885.1	886.8	890.0	894.9	924.0	935.3	959.5	945.0	907.8
57.5°	804.3	799.4	804.3	807.5	809.1	813.9	838.2	859.2	873.9	875.4	830.2
60°	710.4	703.9	710.4	725.0	728.1	731.4	754.1	773.5	786.5	791.2	744.4
62.5°	627.8	616.6	627.8	637.6	644.0	652.1	668.3	697.4	708.7	710.4	644.0
65°	540.4	535.7	540.4	559.9	561.5	571.2	589.0	610.1	634.3	631.1	535.7
67.5°	461.2	461.2	461.2	474.2	483.8	488.7	511.4	521.0	551.8	555.1	446.6
70°	388.4	386.8	388.4	398.1	404.6	415.8	436.9	448.3	472.6	480.6	362.5
72.5°	318.8	317.2	318.8	326.8	333.3	343.1	360.9	373.8	394.8	404.6	281.6
75°	257.3	254.1	257.3	263.7	262.2	275.1	289.6	302.6	322.0	328.5	208.7
77.5°	197.5	197.5	197.5	203.9	203.9	216.9	223.3	239.5	250.8	260.6	153.8
80°	147.3	145.6	147.3	148.9	148.9	155.4	166.7	178.0	187.7	187.7	105.2
82.5°	103.6	100.3	103.6	103.6	103.6	106.8	113.3	116.5	123.0	127.8	66.4
85°	64.7	64.7	64.7	66.4	64.7	68.0	69.6	72.9	72.9	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°	18.8	18.8	18.8	18.8	18.8	25.1	33.4	37.6	32.3	21.8	13.9
92.5°	75.3	60.4	75.3	90.4	94.1	133.4	185.7	211.9	186.1	134.3	95.5
95°	262.7	217.3	262.7	308.0	319.4	419.4	552.7	619.3	523.0	330.6	186.2
97.5°	629.4	543.1	629.4	715.6	737.1	800.3	884.6	926.7	766.2	445.2	204.4
100°	906.8	804.0	906.8	1009.5	1035.2	1030.6	1024.4	1021.3	843.2	487.0	219.8
102.5°	1179.7	1091.7	1179.7	1267.7	1289.7	1209.2	1101.8	1048.1	867.5	506.1	235.1
105°	1527.6	1480.3	1527.6	1574.8	1586.7	1406.2	1165.5	1045.1	870.2	520.4	258.0
107.5°	1755.5	1766.9	1755.5	1744.0	1741.1	1489.4	1153.6	985.7	831.5	523.0	291.6
110°	1842.4	1891.6	1842.4	1793.1	1780.8	1499.3	1123.9	936.2	797.2	519.0	310.4



TEST NUMBER: P935736

CATALOG NUMBER: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1850.1	1925.9	1850.1	1774.5	1755.6	1467.5	1083.3	891.2	767.2	519.1	333.1
115°	1801.1	1906.1	1801.1	1696.1	1669.9	1392.3	1022.2	837.1	732.7	524.0	367.4
117.5°	1697.1	1813.4	1697.1	1580.6	1551.5	1301.0	967.0	800.0	711.3	533.7	400.5
120°	1613.2	1726.3	1613.2	1500.2	1471.9	1243.0	937.8	785.2	704.0	541.7	419.9
122.5°	1531.5	1643.1	1531.5	1420.0	1392.1	1186.1	911.3	773.8	700.2	553.1	442.6
125°	1415.1	1517.9	1415.1	1312.4	1286.7	1111.6	878.2	761.4	697.1	568.4	471.8
127.5°	1310.4	1397.1	1310.4	1223.7	1202.0	1051.7	851.2	751.0	695.2	583.7	500.0
130°	1248.7	1328.8	1248.7	1168.6	1148.6	1014.7	836.3	747.1	696.4	594.9	518.8
132.5°	1192.7	1264.4	1192.7	1120.9	1103.1	983.3	823.5	743.6	697.1	604.0	534.2
135°	1116.0	1177.7	1116.0	1054.2	1038.7	938.4	804.6	737.7	696.4	613.9	552.0
137.5°	1054.4	1105.0	1054.4	1003.7	991.1	906.3	793.2	736.7	700.7	628.7	574.8
140°	1012.1	1059.5	1012.1	964.9	953.0	879.8	782.1	733.2	701.5	637.9	590.2
142.5°	977.1	1017.9	977.1	936.4	926.3	861.9	776.1	733.2	703.9	645.4	601.5
145°	924.7	955.5	924.7	893.9	886.2	833.5	763.3	728.2	703.9	655.3	618.8
147.5°	884.4	909.9	884.4	858.9	852.5	811.1	755.9	728.2	708.7	669.8	640.6
150°	859.1	879.8	859.1	838.4	833.2	798.2	751.6	728.2	711.3	677.5	652.0
152.5°	837.3	853.0	837.3	821.8	817.8	788.0	748.1	728.2	712.9	682.4	659.5
155°	812.5	822.8	812.5	802.2	799.6	775.8	744.1	728.2	716.6	693.2	675.7
157.5°	792.8	800.0	792.8	785.5	783.7	765.2	740.6	728.2	720.2	704.1	692.1
160°	781.0	785.2	781.0	776.8	775.8	759.9	738.8	728.2	721.8	709.1	699.6
162.5°	773.4	777.3	773.4	769.4	768.4	755.0	737.1	728.2	723.6	714.4	707.5
165°	762.2	766.4	762.2	758.0	756.9	747.4	734.6	728.2	726.1	722.0	718.9
167.5°	754.2	756.0	754.2	752.5	752.0	745.7	737.4	733.2	731.5	727.9	725.3
170°	752.0	752.0	752.0	752.0	752.0	745.7	737.4	733.2	733.1	732.9	732.7
172.5°	746.1	744.6	746.1	747.6	748.0	743.1	736.5	733.2	733.2	733.2	733.2
175°	742.6	742.6	742.6	742.6	742.6	739.4	735.3	733.2	734.2	736.2	737.7
177.5°	739.4	737.7	739.4	741.1	741.6	739.1	735.8	734.2	734.9	736.6	737.7
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



TEST NUMBER: P935736

CATALOG NUMBER: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1734.7	1725.0	1725.0	1708.8	1702.3	1697.4	1689.4	1665.1	1658.6	1652.2	1661.9
5°	1749.3	1731.5	1718.5	1689.4	1665.1	1655.4	1624.7	1566.4	1527.6	1498.5	1482.3
7.5°	1752.5	1729.8	1705.6	1660.2	1602.0	1576.1	1482.3	1375.5	1346.3	1320.4	1304.2
10°	1749.3	1723.3	1689.4	1621.4	1483.9	1438.6	1344.7	1275.1	1257.3	1252.5	1257.3
12.5°	1738.0	1713.7	1666.7	1553.4	1360.9	1330.2	1275.1	1234.6	1231.5	1239.5	1283.2
15°	1718.5	1695.9	1640.8	1462.9	1293.0	1270.3	1231.5	1216.9	1234.6	1291.3	1422.4
17.5°	1699.1	1673.2	1605.3	1373.9	1241.1	1225.0	1197.4	1226.6	1326.9	1402.9	1446.6
20°	1673.2	1642.5	1564.8	1309.1	1203.9	1189.4	1176.4	1307.5	1383.5	1411.1	1435.3
22.5°	1642.5	1610.1	1509.7	1263.8	1165.1	1153.7	1161.9	1352.8	1383.5	1402.9	1424.0
25°	1602.0	1574.5	1445.0	1228.2	1134.3	1121.4	1152.1	1347.9	1365.7	1370.6	1412.7
27.5°	1564.8	1529.1	1377.1	1195.8	1097.1	1092.3	1160.2	1326.9	1339.8	1344.7	1390.0
30°	1519.5	1466.0	1301.0	1161.9	1058.3	1056.7	1161.9	1301.0	1297.7	1310.7	1356.1
32.5°	1472.5	1372.2	1215.2	1119.8	1021.1	1019.5	1150.5	1262.2	1258.9	1276.7	1310.7
35°	1428.8	1299.4	1098.8	1071.2	974.2	975.8	1123.0	1216.9	1218.5	1234.6	1255.7
37.5°	1383.5	1236.3	970.9	1017.9	928.8	928.8	1085.8	1174.8	1171.5	1176.4	1205.6
40°	1330.2	1137.6	857.6	948.3	886.8	881.9	1040.5	1129.5	1118.2	1116.5	1157.0
42.5°	1273.6	1029.2	773.5	856.0	838.2	831.8	985.5	1074.5	1053.4	1058.3	1110.0
45°	1212.0	1000.1	708.7	723.4	788.1	783.2	925.6	1011.4	996.8	1009.7	1063.2
47.5°	1150.5	941.8	687.7	600.4	734.6	733.0	859.2	949.9	941.8	954.8	1011.4
50°	1066.3	877.0	686.1	514.6	674.8	681.3	780.0	890.0	890.0	901.3	961.2
52.5°	958.0	797.8	623.0	466.0	605.2	624.6	710.4	838.2	841.4	852.8	906.2
55°	859.2	715.2	577.7	428.9	522.7	564.7	642.5	784.8	791.2	802.6	851.2
57.5°	768.7	595.5	568.0	385.2	446.6	487.1	582.5	733.0	736.3	746.0	792.9
60°	671.5	430.5	521.0	338.2	380.3	411.0	527.5	671.5	682.9	689.3	729.8
62.5°	561.5	312.3	472.6	305.8	347.9	354.4	482.2	613.3	627.8	632.7	657.0
65°	399.7	262.2	401.3	278.3	313.9	315.5	433.6	553.4	566.4	574.5	592.3
67.5°	270.2	213.6	305.8	252.4	288.0	289.6	386.8	483.8	501.6	508.1	519.4
70°	187.7	142.4	226.5	224.9	258.9	262.2	336.6	420.7	436.9	441.8	448.3
72.5°	137.5	114.9	187.7	202.2	228.1	231.4	284.8	349.5	365.7	370.5	373.8
75°	105.2	121.3	152.1	176.4	194.2	195.8	233.0	284.8	296.1	299.4	301.0
77.5°	84.1	113.3	111.7	142.4	158.5	155.4	182.8	220.1	229.8	229.8	229.8
80°	63.1	89.0	84.1	101.9	116.5	113.3	131.1	157.0	160.2	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	53.4
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°	12.9	8.9	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.1
92.5°	87.1	53.5	19.8	53.5	87.1	95.5	134.3	186.1	211.9	185.7	133.4
95°	170.8	109.1	47.5	109.1	170.8	186.2	330.6	523.0	619.3	552.7	419.4
97.5°	190.9	136.4	82.1	136.4	190.9	204.4	445.2	766.2	926.7	884.6	800.3
100°	207.5	158.2	108.9	158.2	207.5	219.8	487.0	843.2	1021.3	1024.4	1030.6
102.5°	223.7	177.7	131.7	177.7	223.7	235.1	506.1	867.5	1048.1	1101.8	1209.2
105°	248.2	209.3	170.3	209.3	248.2	258.0	520.4	870.2	1045.1	1165.5	1406.2
107.5°	282.6	246.2	209.9	246.2	282.6	291.6	523.0	831.5	985.7	1153.6	1489.4
110°	302.2	269.5	236.7	269.5	302.2	310.4	519.0	797.2	936.2	1123.9	1499.3



TEST NUMBER: P935736

CATALOG NUMBER: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	325.3	294.1	262.9	294.1	325.3	333.1	519.1	767.2	891.2	1083.3	1467.5
115°	360.2	331.3	302.4	331.3	360.2	367.4	524.0	732.7	837.1	1022.2	1392.3
117.5°	394.0	367.8	341.6	367.8	394.0	400.5	533.7	711.3	800.0	967.0	1301.0
120°	413.7	389.1	364.4	389.1	413.7	419.9	541.7	704.0	785.2	937.8	1243.0
122.5°	436.4	411.5	386.7	411.5	436.4	442.6	553.1	700.2	773.8	911.3	1186.1
125°	466.1	443.5	420.8	443.5	466.1	471.8	568.4	697.1	761.4	878.2	1111.6
127.5°	494.3	471.4	448.6	471.4	494.3	500.0	583.7	695.2	751.0	851.2	1051.7
130°	512.7	488.0	463.4	488.0	512.7	518.8	594.9	696.4	747.1	836.3	1014.7
132.5°	528.1	503.4	478.8	503.4	528.1	534.2	604.0	697.1	743.6	823.5	983.3
135°	546.4	524.0	501.5	524.0	546.4	552.0	613.9	696.4	737.7	804.6	938.4
137.5°	569.2	546.9	524.8	546.9	569.2	574.8	628.7	700.7	736.7	793.2	906.3
140°	585.0	564.5	544.1	564.5	585.0	590.2	637.9	701.5	733.2	782.1	879.8
142.5°	596.8	577.8	558.9	577.8	596.8	601.5	645.4	703.9	733.2	776.1	861.9
145°	614.7	598.2	581.7	598.2	614.7	618.8	655.3	703.9	728.2	763.3	833.5
147.5°	636.6	620.6	604.5	620.6	636.6	640.6	669.8	708.7	728.2	755.9	811.1
150°	648.4	633.9	619.3	633.9	648.4	652.0	677.5	711.3	728.2	751.6	798.2
152.5°	656.7	645.7	634.7	645.7	656.7	659.5	682.4	712.9	728.2	748.1	788.0
155°	673.7	665.6	657.5	665.6	673.7	675.7	693.2	716.6	728.2	744.1	775.8
157.5°	690.1	682.2	674.3	682.2	690.1	692.1	704.1	720.2	728.2	740.6	765.2
160°	698.0	691.8	685.7	691.8	698.0	699.6	709.1	721.8	728.2	738.8	759.9
162.5°	706.3	701.7	697.1	701.7	706.3	707.5	714.4	723.6	728.2	737.1	755.0
165°	717.8	713.6	709.4	713.6	717.8	718.9	722.0	726.1	728.2	734.6	747.4
167.5°	724.8	722.8	720.9	722.8	724.8	725.3	727.9	731.5	733.2	737.4	745.7
170°	732.3	730.2	728.2	730.2	732.3	732.7	732.9	733.1	733.2	737.4	745.7
172.5°	733.1	732.6	732.3	732.6	733.1	733.2	733.2	733.2	733.2	736.5	743.1
175°	737.7	737.7	737.7	737.7	737.7	737.7	736.2	734.2	733.2	735.3	739.4
177.5°	737.7	737.7	737.7	737.7	737.7	737.7	736.6	734.9	734.2	735.8	739.1
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



TEST NUMBER: P935736

CATALOG NUMBER: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1650.6	1645.7	1652.2	1634.3	1652.2	1645.7	1650.6	1661.9	1652.2	1658.6	1665.1
5°	1448.2	1440.2	1414.3	1393.3	1414.3	1440.2	1448.2	1482.3	1498.5	1527.6	1566.4
7.5°	1294.6	1288.1	1281.6	1268.7	1281.6	1288.1	1294.6	1304.2	1320.4	1346.3	1375.5
10°	1260.5	1262.2	1271.9	1270.3	1271.9	1262.2	1260.5	1257.3	1252.5	1257.3	1275.1
12.5°	1347.9	1362.5	1415.9	1412.7	1415.9	1362.5	1347.9	1283.2	1239.5	1231.5	1234.6
15°	1448.2	1453.1	1464.5	1466.0	1464.5	1453.1	1448.2	1422.4	1291.3	1234.6	1216.9
17.5°	1458.0	1459.6	1467.7	1467.7	1467.7	1459.6	1458.0	1446.6	1402.9	1326.9	1226.6
20°	1449.9	1453.1	1469.3	1472.5	1469.3	1453.1	1449.9	1435.3	1411.1	1383.5	1307.5
22.5°	1446.6	1453.1	1466.0	1464.5	1466.0	1453.1	1446.6	1424.0	1402.9	1383.5	1352.8
25°	1430.5	1430.5	1432.1	1433.7	1432.1	1430.5	1430.5	1412.7	1370.6	1365.7	1347.9
27.5°	1396.5	1399.8	1409.4	1407.8	1409.4	1399.8	1396.5	1390.0	1344.7	1339.8	1326.9
30°	1365.7	1362.5	1354.4	1347.9	1354.4	1362.5	1365.7	1356.1	1310.7	1297.7	1301.0
32.5°	1314.0	1305.9	1297.7	1293.0	1297.7	1305.9	1314.0	1310.7	1276.7	1258.9	1262.2
35°	1252.5	1254.0	1252.5	1247.6	1252.5	1254.0	1252.5	1255.7	1234.6	1218.5	1216.9
37.5°	1208.8	1212.0	1210.4	1203.9	1210.4	1212.0	1208.8	1205.6	1176.4	1171.5	1174.8
40°	1163.5	1165.1	1163.5	1158.6	1163.5	1165.1	1163.5	1157.0	1116.5	1118.2	1129.5
42.5°	1119.8	1118.2	1113.3	1110.0	1113.3	1118.2	1119.8	1110.0	1058.3	1053.4	1074.5
45°	1069.6	1071.2	1061.6	1056.7	1061.6	1071.2	1069.6	1063.2	1009.7	996.8	1011.4
47.5°	1019.5	1019.5	1011.4	1006.5	1011.4	1019.5	1019.5	1011.4	954.8	941.8	949.9
50°	966.0	964.4	953.1	951.5	953.1	964.4	966.0	961.2	901.3	890.0	890.0
52.5°	904.6	904.6	906.2	909.4	906.2	904.6	904.6	906.2	852.8	841.4	838.2
55°	851.2	852.8	864.1	867.4	864.1	852.8	851.2	851.2	802.6	791.2	784.8
57.5°	796.1	796.1	804.3	804.3	804.3	796.1	796.1	792.9	746.0	736.3	733.0
60°	733.0	736.3	742.8	741.1	742.8	736.3	733.0	729.8	689.3	682.9	671.5
62.5°	666.7	669.9	671.5	668.3	671.5	669.9	666.7	657.0	632.7	627.8	613.3
65°	597.1	600.4	601.9	598.8	601.9	600.4	597.1	592.3	574.5	566.4	553.4
67.5°	525.9	524.3	522.7	529.2	522.7	524.3	525.9	519.4	508.1	501.6	483.8
70°	453.0	453.0	451.5	454.7	451.5	453.0	453.0	448.3	441.8	436.9	420.7
72.5°	375.4	373.8	380.3	375.4	380.3	373.8	375.4	373.8	370.5	365.7	349.5
75°	299.4	302.6	299.4	304.3	299.4	302.6	299.4	301.0	299.4	296.1	284.8
77.5°	228.1	231.4	228.1	228.1	228.1	231.4	228.1	229.8	229.8	229.8	220.1
80°	161.8	160.2	160.2	158.5	160.2	160.2	161.8	161.8	163.4	160.2	157.0
82.5°	103.6	101.9	101.9	105.2	101.9	101.9	103.6	105.2	101.9	101.9	101.9
85°	56.6	58.2	55.0	55.0	55.0	58.2	56.6	53.4	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°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	25.1	33.4	37.6	32.3
92.5°	94.1	90.4	75.3	60.4	75.3	90.4	94.1	133.4	185.7	211.9	186.1
95°	319.4	308.0	262.7	217.3	262.7	308.0	319.4	419.4	552.7	619.3	523.0
97.5°	737.1	715.6	629.4	543.1	629.4	715.6	737.1	800.3	884.6	926.7	766.2
100°	1035.2	1009.5	906.8	804.0	906.8	1009.5	1035.2	1030.6	1024.4	1021.3	843.2
102.5°	1289.7	1267.7	1179.7	1091.7	1179.7	1267.7	1289.7	1209.2	1101.8	1048.1	867.5
105°	1586.7	1574.8	1527.6	1480.3	1527.6	1574.8	1586.7	1406.2	1165.5	1045.1	870.2
107.5°	1741.1	1744.0	1755.5	1766.9	1755.5	1744.0	1741.1	1489.4	1153.6	985.7	831.5
110°	1780.8	1793.1	1842.4	1891.6	1842.4	1793.1	1780.8	1499.3	1123.9	936.2	797.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1755.6	1774.5	1850.1	1925.9	1850.1	1774.5	1755.6	1467.5	1083.3	891.2	767.2
115°	1669.9	1696.1	1801.1	1906.1	1801.1	1696.1	1669.9	1392.3	1022.2	837.1	732.7
117.5°	1551.5	1580.6	1697.1	1813.4	1697.1	1580.6	1551.5	1301.0	967.0	800.0	711.3
120°	1471.9	1500.2	1613.2	1726.3	1613.2	1500.2	1471.9	1243.0	937.8	785.2	704.0
122.5°	1392.1	1420.0	1531.5	1643.1	1531.5	1420.0	1392.1	1186.1	911.3	773.8	700.2
125°	1286.7	1312.4	1415.1	1517.9	1415.1	1312.4	1286.7	1111.6	878.2	761.4	697.1
127.5°	1202.0	1223.7	1310.4	1397.1	1310.4	1223.7	1202.0	1051.7	851.2	751.0	695.2
130°	1148.6	1168.6	1248.7	1328.8	1248.7	1168.6	1148.6	1014.7	836.3	747.1	696.4
132.5°	1103.1	1120.9	1192.7	1264.4	1192.7	1120.9	1103.1	983.3	823.5	743.6	697.1
135°	1038.7	1054.2	1116.0	1177.7	1116.0	1054.2	1038.7	938.4	804.6	737.7	696.4
137.5°	991.1	1003.7	1054.4	1105.0	1054.4	1003.7	991.1	906.3	793.2	736.7	700.7
140°	953.0	964.9	1012.1	1059.5	1012.1	964.9	953.0	879.8	782.1	733.2	701.5
142.5°	926.3	936.4	977.1	1017.9	977.1	936.4	926.3	861.9	776.1	733.2	703.9
145°	886.2	893.9	924.7	955.5	924.7	893.9	886.2	833.5	763.3	728.2	703.9
147.5°	852.5	858.9	884.4	909.9	884.4	858.9	852.5	811.1	755.9	728.2	708.7
150°	833.2	838.4	859.1	879.8	859.1	838.4	833.2	798.2	751.6	728.2	711.3
152.5°	817.8	821.8	837.3	853.0	837.3	821.8	817.8	788.0	748.1	728.2	712.9
155°	799.6	802.2	812.5	822.8	812.5	802.2	799.6	775.8	744.1	728.2	716.6
157.5°	783.7	785.5	792.8	800.0	792.8	785.5	783.7	765.2	740.6	728.2	720.2
160°	775.8	776.8	781.0	785.2	781.0	776.8	775.8	759.9	738.8	728.2	721.8
162.5°	768.4	769.4	773.4	777.3	773.4	769.4	768.4	755.0	737.1	728.2	723.6
165°	756.9	758.0	762.2	766.4	762.2	758.0	756.9	747.4	734.6	728.2	726.1
167.5°	752.0	752.5	754.2	756.0	754.2	752.5	752.0	745.7	737.4	733.2	731.5
170°	752.0	752.0	752.0	752.0	752.0	752.0	752.0	745.7	737.4	733.2	733.1
172.5°	748.0	747.6	746.1	744.6	746.1	747.6	748.0	743.1	736.5	733.2	733.2
175°	742.6	742.6	742.6	742.6	742.6	742.6	742.6	739.4	735.3	733.2	734.2
177.5°	741.6	741.1	739.4	737.7	739.4	741.1	741.6	739.1	735.8	734.2	734.9
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1689.4	1697.4	1702.3	1708.8	1725.0
5°	1624.7	1655.4	1665.1	1689.4	1718.5
7.5°	1482.3	1576.1	1602.0	1660.2	1705.6
10°	1344.7	1438.6	1483.9	1621.4	1689.4
12.5°	1275.1	1330.2	1360.9	1553.4	1666.7
15°	1231.5	1270.3	1293.0	1462.9	1640.8
17.5°	1197.4	1225.0	1241.1	1373.9	1605.3
20°	1176.4	1189.4	1203.9	1309.1	1564.8
22.5°	1161.9	1153.7	1165.1	1263.8	1509.7
25°	1152.1	1121.4	1134.3	1228.2	1445.0
27.5°	1160.2	1092.3	1097.1	1195.8	1377.1
30°	1161.9	1056.7	1058.3	1161.9	1301.0
32.5°	1150.5	1019.5	1021.1	1119.8	1215.2
35°	1123.0	975.8	974.2	1071.2	1098.8
37.5°	1085.8	928.8	928.8	1017.9	970.9
40°	1040.5	881.9	886.8	948.3	857.6
42.5°	985.5	831.8	838.2	856.0	773.5
45°	925.6	783.2	788.1	723.4	708.7
47.5°	859.2	733.0	734.6	600.4	687.7
50°	780.0	681.3	674.8	514.6	686.1
52.5°	710.4	624.6	605.2	466.0	623.0
55°	642.5	564.7	522.7	428.9	577.7
57.5°	582.5	487.1	446.6	385.2	568.0
60°	527.5	411.0	380.3	338.2	521.0
62.5°	482.2	354.4	347.9	305.8	472.6
65°	433.6	315.5	313.9	278.3	401.3
67.5°	386.8	289.6	288.0	252.4	305.8
70°	336.6	262.2	258.9	224.9	226.5
72.5°	284.8	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	142.4	111.7
80°	131.1	113.3	116.5	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°	21.8	13.9	12.9	8.9	5.0
92.5°	134.3	95.5	87.1	53.5	19.8
95°	330.6	186.2	170.8	109.1	47.5
97.5°	445.2	204.4	190.9	136.4	82.1
100°	487.0	219.8	207.5	158.2	108.9
102.5°	506.1	235.1	223.7	177.7	131.7
105°	520.4	258.0	248.2	209.3	170.3
107.5°	523.0	291.6	282.6	246.2	209.9
110°	519.0	310.4	302.2	269.5	236.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	519.1	333.1	325.3	294.1	262.9
115°	524.0	367.4	360.2	331.3	302.4
117.5°	533.7	400.5	394.0	367.8	341.6
120°	541.7	419.9	413.7	389.1	364.4
122.5°	553.1	442.6	436.4	411.5	386.7
125°	568.4	471.8	466.1	443.5	420.8
127.5°	583.7	500.0	494.3	471.4	448.6
130°	594.9	518.8	512.7	488.0	463.4
132.5°	604.0	534.2	528.1	503.4	478.8
135°	613.9	552.0	546.4	524.0	501.5
137.5°	628.7	574.8	569.2	546.9	524.8
140°	637.9	590.2	585.0	564.5	544.1
142.5°	645.4	601.5	596.8	577.8	558.9
145°	655.3	618.8	614.7	598.2	581.7
147.5°	669.8	640.6	636.6	620.6	604.5
150°	677.5	652.0	648.4	633.9	619.3
152.5°	682.4	659.5	656.7	645.7	634.7
155°	693.2	675.7	673.7	665.6	657.5
157.5°	704.1	692.1	690.1	682.2	674.3
160°	709.1	699.6	698.0	691.8	685.7
162.5°	714.4	707.5	706.3	701.7	697.1
165°	722.0	718.9	717.8	713.6	709.4
167.5°	727.9	725.3	724.8	722.8	720.9
170°	732.9	732.7	732.3	730.2	728.2
172.5°	733.2	733.2	733.1	732.6	732.3
175°	736.2	737.7	737.7	737.7	737.7
177.5°	736.6	737.7	737.7	737.7	737.7
180°	737.7	737.7	737.7	737.7	737.7



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.22	15.07	15.20	16.05	17.35	17.02	17.87	17.99	18.85	20.15
	3H	14.70	15.46	15.68	16.45	17.77	18.36	19.11	19.34	20.11	21.43
	4H	14.89	15.61	15.89	16.61	17.93	18.79	19.51	19.79	20.51	21.84
	6H	15.01	15.67	16.02	16.67	18.01	19.07	19.73	20.08	20.73	22.07
	8H	15.01	15.64	16.02	16.66	17.99	19.14	19.77	20.15	20.79	22.12
	12H	14.98	15.58	16.00	16.59	17.95	19.17	19.77	20.19	20.78	22.15
4H	2H	15.25	15.96	16.25	16.96	18.29	17.43	18.15	18.43	19.15	20.47
	3H	16.27	16.87	17.28	17.90	19.24	18.92	19.52	19.94	20.55	21.89
	4H	16.55	17.09	17.57	18.11	19.48	19.44	19.99	20.47	21.01	22.38
	6H	16.67	17.14	17.70	18.19	19.55	19.80	20.27	20.83	21.32	22.68
	8H	16.68	17.12	17.71	18.15	19.53	19.90	20.34	20.94	21.38	22.75
	12H	16.64	17.04	17.69	18.09	19.47	19.95	20.35	21.00	21.40	22.78
8H	4H	16.99	17.43	18.03	18.47	19.85	19.57	20.01	20.60	21.04	22.42
	6H	17.25	17.62	18.31	18.70	20.07	20.00	20.36	21.05	21.44	22.81
	8H	17.30	17.62	18.36	18.68	20.07	20.14	20.46	21.21	21.53	22.92
	12H	17.28	17.56	18.35	18.62	20.05	20.24	20.52	21.30	21.57	23.01
12H	4H	17.00	17.39	18.05	18.45	19.83	19.53	19.93	20.58	20.98	22.36
	6H	17.31	17.63	18.38	18.70	20.09	19.99	20.31	21.06	21.38	22.77
	8H	17.38	17.66	18.45	18.72	20.15	20.15	20.43	21.22	21.49	22.92