

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: P934693

Luminaire Tested: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934693
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

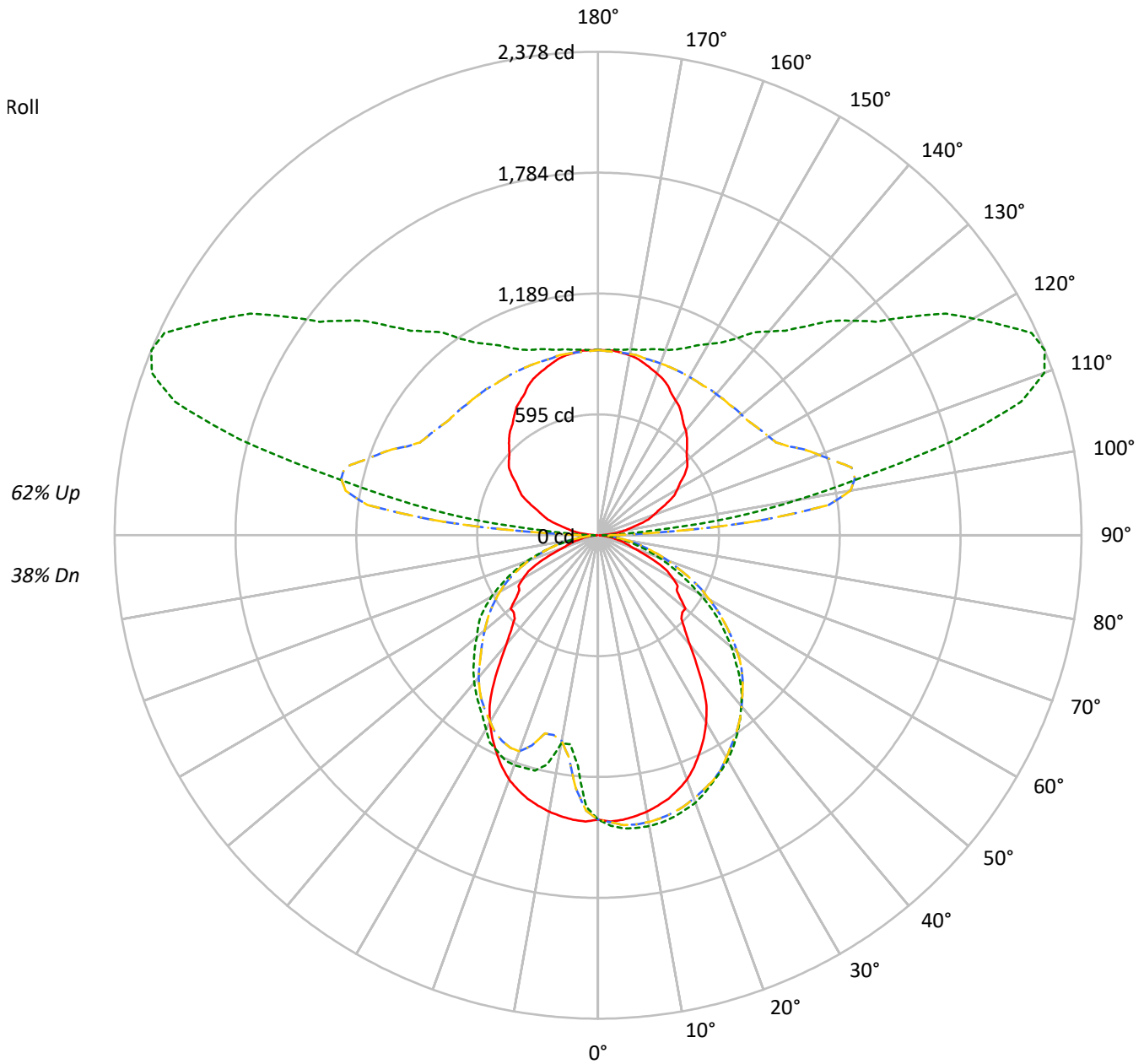
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9532.6 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 68.8
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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6486	6486	6486	6486
5°	6535	6547	6535	5148
10°	6490	6449	6490	4611
15°	6420	6309	6420	5269
20°	6285	6144	6285	5280
25°	6011	5903	6011	5168
30°	5656	5702	5656	4922
35°	5042	5448	5042	4652
40°	4201	5150	4201	4448
45°	3754	4800	3754	4214
50°	3988	4384	3988	3978
55°	3752	3935	3752	3842
60°	3868	3342	3868	3519
65°	3506	2763	3506	3089
70°	2429	2202	2429	2589
75°	2129	1628	2129	1949
80°	1714	1076	1714	1172
85°	987	570	987	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5753 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	1.3
10°-20°	358.3	3.8
20°-30°	553.8	5.8
30°-40°	661.2	6.9
40°-50°	665.0	7.0
50°-60°	578.7	6.1
60°-70°	410.3	4.3
70°-80°	217.1	2.3
80°-90°	57.5	0.6
90°-100°	444.0	4.7
100°-110°	1167.3	12.2
110°-120°	1210.3	12.7
120°-130°	970.8	10.2
130°-140°	761.8	8.0
140°-150°	584.7	6.1
150°-160°	421.1	4.4
160°-170°	257.6	2.7
170°-180°	87.0	0.9
0°-30°	1038.3	10.9
0°-40°	1699.5	17.8
0°-60°	2943.1	30.9
0°-90°	3628.0	38.1
90°-120°	2821.6	29.6
90°-150°	5138.9	53.9
90°-180°	5905.0	61.9
0°-180°	9532.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1398	1398	1398	1398	1398	
5°	1405	1448	1405	1139	1405	133
15°	1341	1435	1341	1198	1341	377
25°	1181	1338	1181	1172	1181	542
35°	898	1194	898	1020	898	556
45°	579	984	579	864	579	464
55°	472	726	472	709	472	434
65°	328	438	328	489	328	313
75°	124	208	124	249	124	131
85°	21	53	21	45	21	29
90°	6	23	6	23	6	6
95°	59	268	59	268	59	65
105°	210	1828	210	1828	210	223
115°	374	2354	374	2354	374	369
125°	520	1874	520	1874	520	461
135°	619	1454	619	1454	619	479
145°	718	1180	718	1180	718	450
155°	812	1016	812	1016	812	373
165°	876	946	876	946	876	247
175°	911	917	911	917	911	86
180°	911	911	911	911	911	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1409.8	1409.8	1417.8	1420.4	1420.4	1416.4	1412.4	1416.4	1428.3	1432.3	1431.0
5°	1404.6	1415.1	1429.7	1432.3	1434.9	1433.6	1431.0	1433.6	1446.9	1449.5	1450.8
7.5°	1393.9	1413.8	1432.3	1436.3	1440.3	1436.3	1434.9	1437.6	1450.8	1453.5	1453.5
10°	1380.7	1408.5	1429.7	1432.3	1436.3	1432.3	1432.3	1437.6	1450.8	1453.5	1454.7
12.5°	1362.2	1400.5	1420.4	1423.0	1428.3	1427.0	1425.7	1431.0	1444.2	1446.9	1446.9
15°	1341.1	1386.0	1404.6	1407.1	1416.4	1413.8	1413.8	1419.1	1433.6	1437.6	1436.3
17.5°	1312.0	1367.5	1388.7	1392.6	1399.2	1398.0	1399.2	1404.6	1417.8	1420.4	1421.7
20°	1278.8	1342.3	1367.5	1371.4	1378.0	1378.0	1378.0	1384.6	1398.0	1403.2	1403.2
22.5°	1233.9	1315.9	1342.3	1345.0	1353.0	1353.0	1355.6	1364.8	1376.8	1378.0	1378.0
25°	1181.0	1286.8	1309.3	1317.2	1325.2	1329.1	1333.1	1338.4	1342.3	1341.1	1342.3
27.5°	1125.5	1249.8	1278.8	1284.2	1294.7	1298.8	1304.0	1305.4	1306.6	1310.6	1308.0
30°	1063.3	1198.2	1241.9	1247.2	1264.3	1267.0	1261.7	1264.3	1271.0	1273.6	1276.3
32.5°	993.2	1121.5	1203.5	1215.4	1231.3	1223.3	1222.0	1226.0	1236.5	1236.5	1239.2
35°	898.0	1062.0	1167.8	1178.4	1190.3	1181.0	1186.4	1187.6	1194.2	1198.2	1196.9
37.5°	793.5	1010.5	1130.7	1138.7	1148.0	1136.1	1144.0	1148.0	1153.2	1150.6	1150.6
40°	700.9	929.7	1087.2	1092.4	1100.4	1091.1	1099.0	1101.7	1104.3	1101.7	1100.4
42.5°	632.1	841.2	1040.8	1047.4	1042.1	1048.8	1051.4	1056.7	1052.8	1047.4	1047.4
45°	579.3	817.3	990.5	998.5	990.5	1001.2	1005.1	1005.1	993.2	990.5	989.3
47.5°	562.1	769.7	940.3	940.3	936.3	949.6	956.2	947.0	935.0	931.1	931.1
50°	560.7	716.8	871.5	866.3	884.7	900.6	894.0	884.7	875.5	861.0	861.0
52.5°	509.2	652.0	783.0	802.8	831.9	841.2	830.5	821.3	805.5	798.8	793.5
55°	472.1	584.6	702.2	742.0	772.3	784.3	764.4	755.2	731.3	727.4	724.7
57.5°	464.2	486.7	628.2	678.5	715.4	714.2	702.2	685.1	665.3	661.3	659.9
60°	425.9	351.8	548.8	608.4	646.7	642.8	632.1	616.2	597.8	595.1	592.5
62.5°	386.2	255.3	458.9	526.3	580.6	579.3	570.0	546.2	532.9	526.3	521.1
65°	327.9	214.3	326.7	437.8	515.8	518.4	498.6	481.4	466.9	458.9	457.6
67.5°	250.0	174.6	220.9	365.0	453.7	451.0	425.9	418.0	399.4	395.5	387.5
70°	185.2	116.3	153.4	296.3	392.8	386.2	366.3	357.1	339.9	330.6	325.4
72.5°	153.4	93.9	112.4	230.1	330.6	322.7	305.5	294.9	280.4	272.4	267.1
75°	124.3	99.2	86.0	170.6	268.5	263.2	247.3	236.7	224.8	214.3	215.5
77.5°	91.3	92.6	68.7	125.6	213.0	205.0	195.7	182.5	177.2	166.6	166.6
80°	68.7	72.8	51.6	86.0	153.4	153.4	145.4	136.3	127.0	121.7	121.7
82.5°	46.2	46.2	38.4	54.2	104.5	100.5	95.2	92.6	87.3	84.6	84.6
85°	21.2	26.4	23.8	33.0	56.9	59.6	59.6	56.9	55.5	52.9	54.2
87.5°	6.6	11.9	14.6	18.5	29.1	30.5	31.7	31.7	31.7	33.0	33.0
90°	6.1	11.0	16.0	17.2	26.9	39.9	46.4	41.3	31.0	23.3	23.3
92.5°	24.5	66.1	107.7	118.0	165.9	229.7	261.7	229.3	164.7	116.2	111.5
95°	58.7	134.8	210.8	229.8	408.1	645.8	764.7	682.4	517.7	394.3	380.3
97.5°	101.5	168.6	235.8	252.5	549.8	946.2	1144.4	1092.3	988.3	910.3	883.7
100°	134.5	195.3	256.3	271.4	601.4	1041.2	1261.1	1264.9	1272.5	1278.3	1246.5
102.5°	162.6	219.4	276.2	290.4	624.9	1071.1	1294.1	1360.4	1493.0	1592.5	1565.3
105°	210.3	258.4	306.4	318.5	642.5	1074.4	1290.5	1439.1	1736.2	1959.2	1944.6
107.5°	259.2	304.1	348.8	360.1	645.7	1026.6	1217.1	1424.4	1839.0	2150.0	2153.5
110°	292.3	332.7	373.1	383.3	640.8	984.2	1156.0	1387.7	1851.2	2198.9	2214.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	324.6	363.1	401.7	411.4	641.0	947.3	1100.4	1337.6	1812.0	2167.7	2191.1
115°	373.5	409.1	444.7	453.6	646.9	904.8	1033.7	1262.2	1719.2	2061.9	2094.4
117.5°	421.8	454.2	486.5	494.6	659.0	878.2	987.9	1194.0	1606.5	1915.8	1951.7
120°	449.9	480.3	510.7	518.3	668.7	869.3	969.5	1158.0	1534.8	1817.4	1852.3
122.5°	477.4	508.2	538.8	546.5	682.8	864.5	955.4	1125.1	1464.5	1719.0	1753.4
125°	519.6	547.6	575.5	582.5	701.7	860.7	940.2	1084.3	1372.5	1588.7	1620.5
127.5°	553.8	582.1	610.3	617.4	720.8	858.5	927.3	1051.1	1298.6	1484.2	1510.9
130°	572.2	602.5	633.0	640.6	734.6	859.9	922.5	1032.6	1253.0	1418.3	1443.0
132.5°	591.1	621.6	652.0	659.6	745.8	860.7	918.2	1016.8	1214.1	1362.0	1384.1
135°	619.2	646.9	674.7	681.6	758.0	859.9	910.9	993.5	1158.6	1282.5	1301.6
137.5°	648.0	675.4	702.8	709.7	776.4	865.2	909.6	979.4	1119.1	1223.8	1239.4
140°	671.9	697.1	722.3	728.7	787.5	866.1	905.3	965.7	1086.3	1176.8	1191.4
142.5°	690.2	713.6	736.9	742.8	797.0	869.3	905.3	958.3	1064.3	1143.8	1156.3
145°	718.3	738.7	759.0	764.2	809.2	869.3	899.2	942.6	1029.3	1094.3	1103.7
147.5°	746.4	766.2	786.1	791.1	827.2	875.2	899.2	933.3	1001.5	1052.7	1060.5
150°	764.7	782.7	800.6	805.1	836.4	878.3	899.2	928.0	985.6	1028.8	1035.2
152.5°	783.7	797.3	810.9	814.2	842.5	880.3	899.2	923.8	973.0	1009.9	1014.7
155°	811.8	821.8	831.9	834.5	856.0	884.8	899.2	918.8	957.9	987.3	990.4
157.5°	832.6	842.3	852.1	854.6	869.5	889.3	899.2	914.4	944.9	967.7	969.9
160°	846.7	854.3	861.9	863.7	875.6	891.3	899.2	912.2	938.4	957.9	959.2
162.5°	860.7	866.4	872.1	873.6	882.2	893.5	899.2	910.3	932.3	948.7	949.9
165°	876.0	881.1	886.3	887.6	891.4	896.7	899.2	907.1	922.9	934.7	936.0
167.5°	890.1	892.5	895.0	895.6	898.8	903.2	905.3	910.5	920.8	928.6	929.1
170°	899.2	901.7	904.2	904.8	905.0	905.2	905.3	910.5	920.8	928.6	928.6
172.5°	904.2	904.7	905.2	905.3	905.3	905.3	905.3	909.4	917.6	923.7	923.2
175°	910.9	910.9	910.9	910.9	909.0	906.5	905.3	907.9	913.1	917.0	917.0
177.5°	910.9	910.9	910.9	910.9	909.4	907.5	906.5	908.6	912.6	915.7	915.2
180°	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1433.6	1429.7	1433.6	1431.0	1432.3	1428.3	1416.4	1412.4	1416.4	1420.4	1420.4
5°	1450.8	1448.1	1450.8	1450.8	1449.5	1446.9	1433.6	1431.0	1433.6	1434.9	1432.3
7.5°	1456.1	1452.2	1456.1	1453.5	1453.5	1450.8	1437.6	1434.9	1436.3	1440.3	1436.3
10°	1456.1	1452.2	1456.1	1454.7	1453.5	1450.8	1437.6	1432.3	1432.3	1436.3	1432.3
12.5°	1449.5	1446.9	1449.5	1446.9	1446.9	1444.2	1431.0	1425.7	1427.0	1428.3	1423.0
15°	1438.9	1434.9	1438.9	1436.3	1437.6	1433.6	1419.1	1413.8	1413.8	1416.4	1407.1
17.5°	1423.0	1417.8	1423.0	1421.7	1420.4	1417.8	1404.6	1399.2	1398.0	1399.2	1392.6
20°	1404.6	1400.5	1404.6	1403.2	1403.2	1398.0	1384.6	1378.0	1378.0	1378.0	1371.4
22.5°	1375.5	1371.4	1375.5	1378.0	1378.0	1376.8	1364.8	1355.6	1353.0	1353.0	1345.0
25°	1342.3	1338.4	1342.3	1342.3	1341.1	1342.3	1338.4	1333.1	1329.1	1325.2	1317.2
27.5°	1310.6	1308.0	1310.6	1308.0	1310.6	1306.6	1305.4	1304.0	1298.8	1294.7	1284.2
30°	1278.8	1276.3	1278.8	1276.3	1273.6	1271.0	1264.3	1261.7	1267.0	1264.3	1247.2
32.5°	1239.2	1236.5	1239.2	1239.2	1236.5	1236.5	1226.0	1222.0	1223.3	1231.3	1215.4
35°	1198.2	1194.2	1198.2	1196.9	1198.2	1194.2	1187.6	1186.4	1181.0	1190.3	1178.4
37.5°	1150.6	1146.6	1150.6	1150.6	1150.6	1153.2	1148.0	1144.0	1136.1	1148.0	1138.7
40°	1101.7	1096.3	1101.7	1100.4	1101.7	1104.3	1101.7	1099.0	1091.1	1100.4	1092.4
42.5°	1046.1	1044.8	1046.1	1047.4	1047.4	1052.8	1056.7	1051.4	1048.8	1042.1	1047.4
45°	986.6	983.9	986.6	989.3	990.5	993.2	1005.1	1005.1	1001.2	990.5	998.5
47.5°	923.1	916.5	923.1	931.1	931.1	935.0	947.0	956.2	949.6	936.3	940.3
50°	855.7	857.0	855.7	861.0	861.0	875.5	884.7	894.0	900.6	884.7	866.3
52.5°	789.6	788.2	789.6	793.5	798.8	805.5	821.3	830.5	841.2	831.9	802.8
55°	723.4	726.1	723.4	724.7	727.4	731.3	755.2	764.4	784.3	772.3	742.0
57.5°	657.3	653.3	657.3	659.9	661.3	665.3	685.1	702.2	714.2	715.4	678.5
60°	580.6	575.3	580.6	592.5	595.1	597.8	616.2	632.1	642.8	646.7	608.4
62.5°	513.1	503.8	513.1	521.1	526.3	532.9	546.2	570.0	579.3	580.6	526.3
65°	441.7	437.8	441.7	457.6	458.9	466.9	481.4	498.6	518.4	515.8	437.8
67.5°	376.9	376.9	376.9	387.5	395.5	399.4	418.0	425.9	451.0	453.7	365.0
70°	317.4	316.1	317.4	325.4	330.6	339.9	357.1	366.3	386.2	392.8	296.3
72.5°	260.5	259.2	260.5	267.1	272.4	280.4	294.9	305.5	322.7	330.6	230.1
75°	210.3	207.7	210.3	215.5	214.3	224.8	236.7	247.3	263.2	268.5	170.6
77.5°	161.3	161.3	161.3	166.6	166.6	177.2	182.5	195.7	205.0	213.0	125.6
80°	120.4	119.0	120.4	121.7	121.7	127.0	136.3	145.4	153.4	153.4	86.0
82.5°	84.6	82.0	84.6	84.6	84.6	87.3	92.6	95.2	100.5	104.5	54.2
85°	52.9	52.9	52.9	54.2	52.9	55.5	56.9	59.6	59.6	56.9	33.0
87.5°	34.4	33.0	34.4	33.0	33.0	31.7	31.7	31.7	30.5	29.1	18.5
90°	23.3	23.3	23.3	23.3	23.3	31.0	41.3	46.4	39.9	26.9	17.2
92.5°	93.1	74.5	93.1	111.5	116.2	164.7	229.3	261.7	229.7	165.9	118.0
95°	324.4	268.4	324.4	380.3	394.3	517.7	682.4	764.7	645.8	408.1	229.8
97.5°	777.1	670.6	777.1	883.7	910.3	988.3	1092.3	1144.4	946.2	549.8	252.5
100°	1119.7	992.8	1119.7	1246.5	1278.3	1272.5	1264.9	1261.1	1041.2	601.4	271.4
102.5°	1456.6	1348.0	1456.6	1565.3	1592.5	1493.0	1360.4	1294.1	1071.1	624.9	290.4
105°	1886.1	1827.7	1886.1	1944.6	1959.2	1736.2	1439.1	1290.5	1074.4	642.5	318.5
107.5°	2167.6	2181.7	2167.6	2153.5	2150.0	1839.0	1424.4	1217.1	1026.6	645.7	360.1
110°	2275.0	2335.8	2275.0	2214.1	2198.9	1851.2	1387.7	1156.0	984.2	640.8	383.3



TEST NUMBER: P934693

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2284.5	2377.9	2284.5	2191.1	2167.7	1812.0	1337.6	1100.4	947.3	641.0	411.4
115°	2223.9	2353.5	2223.9	2094.4	2061.9	1719.2	1262.2	1033.7	904.8	646.9	453.6
117.5°	2095.4	2239.2	2095.4	1951.7	1915.8	1606.5	1194.0	987.9	878.2	659.0	494.6
120°	1992.0	2131.6	1992.0	1852.3	1817.4	1534.8	1158.0	969.5	869.3	668.7	518.3
122.5°	1891.1	2028.9	1891.1	1753.4	1719.0	1464.5	1125.1	955.4	864.5	682.8	546.5
125°	1747.4	1874.3	1747.4	1620.5	1588.7	1372.5	1084.3	940.2	860.7	701.7	582.5
127.5°	1618.0	1725.1	1618.0	1510.9	1484.2	1298.6	1051.1	927.3	858.5	720.8	617.4
130°	1541.8	1640.7	1541.8	1443.0	1418.3	1253.0	1032.6	922.5	859.9	734.6	640.6
132.5°	1472.7	1561.2	1472.7	1384.1	1362.0	1214.1	1016.8	918.2	860.7	745.8	659.6
135°	1377.9	1454.3	1377.9	1301.6	1282.5	1158.6	993.5	910.9	859.9	758.0	681.6
137.5°	1301.9	1364.4	1301.9	1239.4	1223.8	1119.1	979.4	909.6	865.2	776.4	709.7
140°	1249.9	1308.2	1249.9	1191.4	1176.8	1086.3	965.7	905.3	866.1	787.5	728.7
142.5°	1206.6	1256.9	1206.6	1156.3	1143.8	1064.3	958.3	905.3	869.3	797.0	742.8
145°	1141.8	1179.8	1141.8	1103.7	1094.3	1029.3	942.6	899.2	869.3	809.2	764.2
147.5°	1092.0	1123.5	1092.0	1060.5	1052.7	1001.5	933.3	899.2	875.2	827.2	791.1
150°	1060.7	1086.3	1060.7	1035.2	1028.8	985.6	928.0	899.2	878.3	836.4	805.1
152.5°	1033.9	1053.2	1033.9	1014.7	1009.9	973.0	923.8	899.2	880.3	842.5	814.2
155°	1003.3	1016.0	1003.3	990.4	987.3	957.9	918.8	899.2	884.8	856.0	834.5
157.5°	978.9	987.9	978.9	969.9	967.7	944.9	914.4	899.2	889.3	869.5	854.6
160°	964.4	969.5	964.4	959.2	957.9	938.4	912.2	899.2	891.3	875.6	863.7
162.5°	954.8	959.8	954.8	949.9	948.7	932.3	910.3	899.2	893.5	882.2	873.6
165°	941.1	946.3	941.1	936.0	934.7	922.9	907.1	899.2	896.7	891.4	887.6
167.5°	931.3	933.4	931.3	929.1	928.6	920.8	910.5	905.3	903.2	898.8	895.6
170°	928.6	928.6	928.6	928.6	928.6	920.8	910.5	905.3	905.2	905.0	904.8
172.5°	921.3	919.4	921.3	923.2	923.7	917.6	909.4	905.3	905.3	905.3	905.3
175°	917.0	917.0	917.0	917.0	917.0	913.1	907.9	905.3	906.5	909.0	910.9
177.5°	913.0	910.9	913.0	915.2	915.7	912.6	908.6	906.5	907.5	909.4	910.9
180°	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9



TEST NUMBER: P934693

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1417.8	1409.8	1409.8	1396.6	1391.3	1387.3	1380.7	1360.9	1355.6	1350.3	1358.2
5°	1429.7	1415.1	1404.6	1380.7	1360.9	1353.0	1327.8	1280.2	1248.5	1224.6	1211.4
7.5°	1432.3	1413.8	1393.9	1356.9	1309.3	1288.1	1211.4	1124.1	1100.4	1079.2	1066.0
10°	1429.7	1408.5	1380.7	1325.2	1212.8	1175.7	1099.0	1042.1	1027.6	1023.7	1027.6
12.5°	1420.4	1400.5	1362.2	1269.7	1112.2	1087.2	1042.1	1009.1	1006.4	1013.0	1048.8
15°	1404.6	1386.0	1341.1	1195.5	1056.7	1038.2	1006.4	994.6	1009.1	1055.4	1162.5
17.5°	1388.7	1367.5	1312.0	1122.9	1014.4	1001.2	978.7	1002.5	1084.5	1146.6	1182.3
20°	1367.5	1342.3	1278.8	1069.9	983.9	972.1	961.4	1068.6	1130.7	1153.2	1173.0
22.5°	1342.3	1315.9	1233.9	1032.9	952.2	943.0	949.6	1105.6	1130.7	1146.6	1163.8
25°	1309.3	1286.8	1181.0	1003.8	927.1	916.5	941.6	1101.7	1116.3	1120.2	1154.6
27.5°	1278.8	1249.8	1125.5	977.3	896.7	892.7	948.2	1084.5	1095.1	1099.0	1136.1
30°	1241.9	1198.2	1063.3	949.6	864.9	863.6	949.6	1063.3	1060.6	1071.3	1108.3
32.5°	1203.5	1121.5	993.2	915.2	834.6	833.2	940.3	1031.6	1028.9	1043.5	1071.3
35°	1167.8	1062.0	898.0	875.5	796.2	797.5	917.9	994.6	995.9	1009.1	1026.3
37.5°	1130.7	1010.5	793.5	831.9	759.1	759.1	887.4	960.2	957.5	961.4	985.3
40°	1087.2	929.7	700.9	775.0	724.7	720.8	850.4	923.1	913.8	912.5	945.6
42.5°	1040.8	841.2	632.1	699.7	685.1	679.7	805.5	878.1	861.0	864.9	907.2
45°	990.5	817.3	579.3	591.2	644.1	640.1	756.5	826.6	814.6	825.3	868.9
47.5°	940.3	769.7	562.1	490.6	600.5	599.1	702.2	776.3	769.7	780.3	826.6
50°	871.5	716.8	560.7	420.5	551.5	556.8	637.4	727.4	727.4	736.6	785.5
52.5°	783.0	652.0	509.2	380.9	494.6	510.5	580.6	685.1	687.7	697.0	740.6
55°	702.2	584.6	472.1	350.4	427.1	461.5	525.0	641.4	646.7	656.0	695.6
57.5°	628.2	486.7	464.2	314.7	365.0	398.0	476.1	599.1	601.8	609.6	648.0
60°	548.8	351.8	425.9	276.4	310.8	335.9	431.2	548.8	558.1	563.4	596.4
62.5°	458.9	255.3	386.2	250.0	284.4	289.6	394.1	501.3	513.1	517.2	537.0
65°	326.7	214.3	327.9	227.5	256.6	257.9	354.5	452.3	462.9	469.5	484.0
67.5°	220.9	174.6	250.0	206.3	235.5	236.7	316.1	395.5	410.0	415.3	424.6
70°	153.4	116.3	185.2	183.8	211.6	214.3	275.1	343.8	357.1	361.1	366.3
72.5°	112.4	93.9	153.4	165.4	186.5	189.1	232.8	285.6	298.9	302.9	305.5
75°	86.0	99.2	124.3	144.2	158.7	160.0	190.4	232.8	242.1	244.6	246.0
77.5°	68.7	92.6	91.3	116.3	129.6	127.0	149.5	179.8	187.8	187.8	187.8
80°	51.6	72.8	68.7	83.3	95.2	92.6	107.1	128.3	130.9	133.6	132.2
82.5°	38.4	46.2	46.2	52.9	63.5	60.8	71.4	83.3	83.3	83.3	86.0
85°	23.8	26.4	21.2	27.8	35.7	34.4	39.6	45.0	46.2	46.2	43.7
87.5°	14.6	11.9	6.6	10.6	15.9	15.9	18.5	19.8	18.5	18.5	18.5
90°	16.0	11.0	6.1	11.0	16.0	17.2	26.9	39.9	46.4	41.3	31.0
92.5°	107.7	66.1	24.5	66.1	107.7	118.0	165.9	229.7	261.7	229.3	164.7
95°	210.8	134.8	58.7	134.8	210.8	229.8	408.1	645.8	764.7	682.4	517.7
97.5°	235.8	168.6	101.5	168.6	235.8	252.5	549.8	946.2	1144.4	1092.3	988.3
100°	256.3	195.3	134.5	195.3	256.3	271.4	601.4	1041.2	1261.1	1264.9	1272.5
102.5°	276.2	219.4	162.6	219.4	276.2	290.4	624.9	1071.1	1294.1	1360.4	1493.0
105°	306.4	258.4	210.3	258.4	306.4	318.5	642.5	1074.4	1290.5	1439.1	1736.2
107.5°	348.8	304.1	259.2	304.1	348.8	360.1	645.7	1026.6	1217.1	1424.4	1839.0
110°	373.1	332.7	292.3	332.7	373.1	383.3	640.8	984.2	1156.0	1387.7	1851.2



TEST NUMBER: P934693

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	401.7	363.1	324.6	363.1	401.7	411.4	641.0	947.3	1100.4	1337.6	1812.0
115°	444.7	409.1	373.5	409.1	444.7	453.6	646.9	904.8	1033.7	1262.2	1719.2
117.5°	486.5	454.2	421.8	454.2	486.5	494.6	659.0	878.2	987.9	1194.0	1606.5
120°	510.7	480.3	449.9	480.3	510.7	518.3	668.7	869.3	969.5	1158.0	1534.8
122.5°	538.8	508.2	477.4	508.2	538.8	546.5	682.8	864.5	955.4	1125.1	1464.5
125°	575.5	547.6	519.6	547.6	575.5	582.5	701.7	860.7	940.2	1084.3	1372.5
127.5°	610.3	582.1	553.8	582.1	610.3	617.4	720.8	858.5	927.3	1051.1	1298.6
130°	633.0	602.5	572.2	602.5	633.0	640.6	734.6	859.9	922.5	1032.6	1253.0
132.5°	652.0	621.6	591.1	621.6	652.0	659.6	745.8	860.7	918.2	1016.8	1214.1
135°	674.7	646.9	619.2	646.9	674.7	681.6	758.0	859.9	910.9	993.5	1158.6
137.5°	702.8	675.4	648.0	675.4	702.8	709.7	776.4	865.2	909.6	979.4	1119.1
140°	722.3	697.1	671.9	697.1	722.3	728.7	787.5	866.1	905.3	965.7	1086.3
142.5°	736.9	713.6	690.2	713.6	736.9	742.8	797.0	869.3	905.3	958.3	1064.3
145°	759.0	738.7	718.3	738.7	759.0	764.2	809.2	869.3	899.2	942.6	1029.3
147.5°	786.1	766.2	746.4	766.2	786.1	791.1	827.2	875.2	899.2	933.3	1001.5
150°	800.6	782.7	764.7	782.7	800.6	805.1	836.4	878.3	899.2	928.0	985.6
152.5°	810.9	797.3	783.7	797.3	810.9	814.2	842.5	880.3	899.2	923.8	973.0
155°	831.9	821.8	811.8	821.8	831.9	834.5	856.0	884.8	899.2	918.8	957.9
157.5°	852.1	842.3	832.6	842.3	852.1	854.6	869.5	889.3	899.2	914.4	944.9
160°	861.9	854.3	846.7	854.3	861.9	863.7	875.6	891.3	899.2	912.2	938.4
162.5°	872.1	866.4	860.7	866.4	872.1	873.6	882.2	893.5	899.2	910.3	932.3
165°	886.3	881.1	876.0	881.1	886.3	887.6	891.4	896.7	899.2	907.1	922.9
167.5°	895.0	892.5	890.1	892.5	895.0	895.6	898.8	903.2	905.3	910.5	920.8
170°	904.2	901.7	899.2	901.7	904.2	904.8	905.0	905.2	905.3	910.5	920.8
172.5°	905.2	904.7	904.2	904.7	905.2	905.3	905.3	905.3	905.3	909.4	917.6
175°	910.9	910.9	910.9	910.9	910.9	910.9	909.0	906.5	905.3	907.9	913.1
177.5°	910.9	910.9	910.9	910.9	910.9	910.9	909.4	907.5	906.5	908.6	912.6
180°	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9



TEST NUMBER: P934693

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1348.9	1345.0	1350.3	1335.7	1350.3	1345.0	1348.9	1358.2	1350.3	1355.6	1360.9
5°	1183.7	1177.1	1155.9	1138.7	1155.9	1177.1	1183.7	1211.4	1224.6	1248.5	1280.2
7.5°	1058.0	1052.8	1047.4	1036.9	1047.4	1052.8	1058.0	1066.0	1079.2	1100.4	1124.1
10°	1030.3	1031.6	1039.5	1038.2	1039.5	1031.6	1030.3	1027.6	1023.7	1027.6	1042.1
12.5°	1101.7	1113.6	1157.2	1154.6	1157.2	1113.6	1101.7	1048.8	1013.0	1006.4	1009.1
15°	1183.7	1187.6	1196.9	1198.2	1196.9	1187.6	1183.7	1162.5	1055.4	1009.1	994.6
17.5°	1191.6	1193.0	1199.6	1199.6	1199.6	1193.0	1191.6	1182.3	1146.6	1084.5	1002.5
20°	1185.0	1187.6	1200.8	1203.5	1200.8	1187.6	1185.0	1173.0	1153.2	1130.7	1068.6
22.5°	1182.3	1187.6	1198.2	1196.9	1198.2	1187.6	1182.3	1163.8	1146.6	1130.7	1105.6
25°	1169.1	1169.1	1170.5	1171.8	1170.5	1169.1	1169.1	1154.6	1120.2	1116.3	1101.7
27.5°	1141.3	1144.0	1151.9	1150.6	1151.9	1144.0	1141.3	1136.1	1099.0	1095.1	1084.5
30°	1116.3	1113.6	1107.0	1101.7	1107.0	1113.6	1116.3	1108.3	1071.3	1060.6	1063.3
32.5°	1073.9	1067.2	1060.6	1056.7	1060.6	1067.2	1073.9	1071.3	1043.5	1028.9	1031.6
35°	1023.7	1024.9	1023.7	1019.6	1023.7	1024.9	1023.7	1026.3	1009.1	995.9	994.6
37.5°	988.0	990.5	989.3	983.9	989.3	990.5	988.0	985.3	961.4	957.5	960.2
40°	950.9	952.2	950.9	947.0	950.9	952.2	950.9	945.6	912.5	913.8	923.1
42.5°	915.2	913.8	909.9	907.2	909.9	913.8	915.2	907.2	864.9	861.0	878.1
45°	874.2	875.5	867.6	863.6	867.6	875.5	874.2	868.9	825.3	814.6	826.6
47.5°	833.2	833.2	826.6	822.6	826.6	833.2	833.2	826.6	780.3	769.7	776.3
50°	789.6	788.2	778.9	777.7	778.9	788.2	789.6	785.5	736.6	727.4	727.4
52.5°	739.3	739.3	740.6	743.2	740.6	739.3	739.3	740.6	697.0	687.7	685.1
55°	695.6	697.0	706.3	708.8	706.3	697.0	695.6	695.6	656.0	646.7	641.4
57.5°	650.7	650.7	657.3	657.3	657.3	650.7	650.7	648.0	609.6	601.8	599.1
60°	599.1	601.8	607.1	605.7	607.1	601.8	599.1	596.4	563.4	558.1	548.8
62.5°	544.9	547.5	548.8	546.2	548.8	547.5	544.9	537.0	517.2	513.1	501.3
65°	488.0	490.6	492.0	489.4	492.0	490.6	488.0	484.0	469.5	462.9	452.3
67.5°	429.8	428.5	427.1	432.5	427.1	428.5	429.8	424.6	415.3	410.0	395.5
70°	370.3	370.3	369.0	371.6	369.0	370.3	370.3	366.3	361.1	357.1	343.8
72.5°	306.8	305.5	310.8	306.8	310.8	305.5	306.8	305.5	302.9	298.9	285.6
75°	244.6	247.3	244.6	248.7	244.6	247.3	244.6	246.0	244.6	242.1	232.8
77.5°	186.5	189.1	186.5	186.5	186.5	189.1	186.5	187.8	187.8	187.8	179.8
80°	132.2	130.9	130.9	129.6	130.9	130.9	132.2	132.2	133.6	130.9	128.3
82.5°	84.6	83.3	83.3	86.0	83.3	83.3	84.6	86.0	83.3	83.3	83.3
85°	46.2	47.6	45.0	45.0	45.0	47.6	46.2	43.7	46.2	46.2	45.0
87.5°	17.2	15.9	15.9	15.9	15.9	15.9	17.2	18.5	18.5	18.5	19.8
90°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	31.0	41.3	46.4	39.9
92.5°	116.2	111.5	93.1	74.5	93.1	111.5	116.2	164.7	229.3	261.7	229.7
95°	394.3	380.3	324.4	268.4	324.4	380.3	394.3	517.7	682.4	764.7	645.8
97.5°	910.3	883.7	777.1	670.6	777.1	883.7	910.3	988.3	1092.3	1144.4	946.2
100°	1278.3	1246.5	1119.7	992.8	1119.7	1246.5	1278.3	1272.5	1264.9	1261.1	1041.2
102.5°	1592.5	1565.3	1456.6	1348.0	1456.6	1565.3	1592.5	1493.0	1360.4	1294.1	1071.1
105°	1959.2	1944.6	1886.1	1827.7	1886.1	1944.6	1959.2	1736.2	1439.1	1290.5	1074.4
107.5°	2150.0	2153.5	2167.6	2181.7	2167.6	2153.5	2150.0	1839.0	1424.4	1217.1	1026.6
110°	2198.9	2214.1	2275.0	2335.8	2275.0	2214.1	2198.9	1851.2	1387.7	1156.0	984.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2167.7	2191.1	2284.5	2377.9	2284.5	2191.1	2167.7	1812.0	1337.6	1100.4	947.3
115°	2061.9	2094.4	2223.9	2353.5	2223.9	2094.4	2061.9	1719.2	1262.2	1033.7	904.8
117.5°	1915.8	1951.7	2095.4	2239.2	2095.4	1951.7	1915.8	1606.5	1194.0	987.9	878.2
120°	1817.4	1852.3	1992.0	2131.6	1992.0	1852.3	1817.4	1534.8	1158.0	969.5	869.3
122.5°	1719.0	1753.4	1891.1	2028.9	1891.1	1753.4	1719.0	1464.5	1125.1	955.4	864.5
125°	1588.7	1620.5	1747.4	1874.3	1747.4	1620.5	1588.7	1372.5	1084.3	940.2	860.7
127.5°	1484.2	1510.9	1618.0	1725.1	1618.0	1510.9	1484.2	1298.6	1051.1	927.3	858.5
130°	1418.3	1443.0	1541.8	1640.7	1541.8	1443.0	1418.3	1253.0	1032.6	922.5	859.9
132.5°	1362.0	1384.1	1472.7	1561.2	1472.7	1384.1	1362.0	1214.1	1016.8	918.2	860.7
135°	1282.5	1301.6	1377.9	1454.3	1377.9	1301.6	1282.5	1158.6	993.5	910.9	859.9
137.5°	1223.8	1239.4	1301.9	1364.4	1301.9	1239.4	1223.8	1119.1	979.4	909.6	865.2
140°	1176.8	1191.4	1249.9	1308.2	1249.9	1191.4	1176.8	1086.3	965.7	905.3	866.1
142.5°	1143.8	1156.3	1206.6	1256.9	1206.6	1156.3	1143.8	1064.3	958.3	905.3	869.3
145°	1094.3	1103.7	1141.8	1179.8	1141.8	1103.7	1094.3	1029.3	942.6	899.2	869.3
147.5°	1052.7	1060.5	1092.0	1123.5	1092.0	1060.5	1052.7	1001.5	933.3	899.2	875.2
150°	1028.8	1035.2	1060.7	1086.3	1060.7	1035.2	1028.8	985.6	928.0	899.2	878.3
152.5°	1009.9	1014.7	1033.9	1053.2	1033.9	1014.7	1009.9	973.0	923.8	899.2	880.3
155°	987.3	990.4	1003.3	1016.0	1003.3	990.4	987.3	957.9	918.8	899.2	884.8
157.5°	967.7	969.9	978.9	987.9	978.9	969.9	967.7	944.9	914.4	899.2	889.3
160°	957.9	959.2	964.4	969.5	964.4	959.2	957.9	938.4	912.2	899.2	891.3
162.5°	948.7	949.9	954.8	959.8	954.8	949.9	948.7	932.3	910.3	899.2	893.5
165°	934.7	936.0	941.1	946.3	941.1	936.0	934.7	922.9	907.1	899.2	896.7
167.5°	928.6	929.1	931.3	933.4	931.3	929.1	928.6	920.8	910.5	905.3	903.2
170°	928.6	928.6	928.6	928.6	928.6	928.6	928.6	920.8	910.5	905.3	905.2
172.5°	923.7	923.2	921.3	919.4	921.3	923.2	923.7	917.6	909.4	905.3	905.3
175°	917.0	917.0	917.0	917.0	917.0	917.0	917.0	913.1	907.9	905.3	906.5
177.5°	915.7	915.2	913.0	910.9	913.0	915.2	915.7	912.6	908.6	906.5	907.5
180°	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9	910.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1380.7	1387.3	1391.3	1396.6	1409.8
5°	1327.8	1353.0	1360.9	1380.7	1404.6
7.5°	1211.4	1288.1	1309.3	1356.9	1393.9
10°	1099.0	1175.7	1212.8	1325.2	1380.7
12.5°	1042.1	1087.2	1112.2	1269.7	1362.2
15°	1006.4	1038.2	1056.7	1195.5	1341.1
17.5°	978.7	1001.2	1014.4	1122.9	1312.0
20°	961.4	972.1	983.9	1069.9	1278.8
22.5°	949.6	943.0	952.2	1032.9	1233.9
25°	941.6	916.5	927.1	1003.8	1181.0
27.5°	948.2	892.7	896.7	977.3	1125.5
30°	949.6	863.6	864.9	949.6	1063.3
32.5°	940.3	833.2	834.6	915.2	993.2
35°	917.9	797.5	796.2	875.5	898.0
37.5°	887.4	759.1	759.1	831.9	793.5
40°	850.4	720.8	724.7	775.0	700.9
42.5°	805.5	679.7	685.1	699.7	632.1
45°	756.5	640.1	644.1	591.2	579.3
47.5°	702.2	599.1	600.5	490.6	562.1
50°	637.4	556.8	551.5	420.5	560.7
52.5°	580.6	510.5	494.6	380.9	509.2
55°	525.0	461.5	427.1	350.4	472.1
57.5°	476.1	398.0	365.0	314.7	464.2
60°	431.2	335.9	310.8	276.4	425.9
62.5°	394.1	289.6	284.4	250.0	386.2
65°	354.5	257.9	256.6	227.5	327.9
67.5°	316.1	236.7	235.5	206.3	250.0
70°	275.1	214.3	211.6	183.8	185.2
72.5°	232.8	189.1	186.5	165.4	153.4
75°	190.4	160.0	158.7	144.2	124.3
77.5°	149.5	127.0	129.6	116.3	91.3
80°	107.1	92.6	95.2	83.3	68.7
82.5°	71.4	60.8	63.5	52.9	46.2
85°	39.6	34.4	35.7	27.8	21.2
87.5°	18.5	15.9	15.9	10.6	6.6
90°	26.9	17.2	16.0	11.0	6.1
92.5°	165.9	118.0	107.7	66.1	24.5
95°	408.1	229.8	210.8	134.8	58.7
97.5°	549.8	252.5	235.8	168.6	101.5
100°	601.4	271.4	256.3	195.3	134.5
102.5°	624.9	290.4	276.2	219.4	162.6
105°	642.5	318.5	306.4	258.4	210.3
107.5°	645.7	360.1	348.8	304.1	259.2
110°	640.8	383.3	373.1	332.7	292.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	641.0	411.4	401.7	363.1	324.6
115°	646.9	453.6	444.7	409.1	373.5
117.5°	659.0	494.6	486.5	454.2	421.8
120°	668.7	518.3	510.7	480.3	449.9
122.5°	682.8	546.5	538.8	508.2	477.4
125°	701.7	582.5	575.5	547.6	519.6
127.5°	720.8	617.4	610.3	582.1	553.8
130°	734.6	640.6	633.0	602.5	572.2
132.5°	745.8	659.6	652.0	621.6	591.1
135°	758.0	681.6	674.7	646.9	619.2
137.5°	776.4	709.7	702.8	675.4	648.0
140°	787.5	728.7	722.3	697.1	671.9
142.5°	797.0	742.8	736.9	713.6	690.2
145°	809.2	764.2	759.0	738.7	718.3
147.5°	827.2	791.1	786.1	766.2	746.4
150°	836.4	805.1	800.6	782.7	764.7
152.5°	842.5	814.2	810.9	797.3	783.7
155°	856.0	834.5	831.9	821.8	811.8
157.5°	869.5	854.6	852.1	842.3	832.6
160°	875.6	863.7	861.9	854.3	846.7
162.5°	882.2	873.6	872.1	866.4	860.7
165°	891.4	887.6	886.3	881.1	876.0
167.5°	898.8	895.6	895.0	892.5	890.1
170°	905.0	904.8	904.2	901.7	899.2
172.5°	905.3	905.3	905.2	904.7	904.2
175°	909.0	910.9	910.9	910.9	910.9
177.5°	909.4	910.9	910.9	910.9	910.9
180°	910.9	910.9	910.9	910.9	910.9



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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	10.09	10.85	11.14	11.91	13.34	12.92	13.69	13.98	14.74	16.18
	3H	10.56	11.24	11.62	12.31	13.76	14.26	14.95	15.33	16.01	17.47
	4H	10.74	11.39	11.82	12.46	13.92	14.71	15.35	15.78	16.42	17.88
	6H	10.86	11.45	11.94	12.52	13.99	14.99	15.58	16.07	16.66	18.12
	8H	10.85	11.42	11.94	12.51	13.97	15.06	15.63	16.15	16.72	18.18
	12H	10.82	11.36	11.91	12.44	13.93	15.10	15.64	16.19	16.72	18.20
4H	2H	11.11	11.76	12.19	12.82	14.28	13.32	13.97	14.40	15.04	16.49
	3H	12.13	12.67	13.22	13.76	15.23	14.82	15.36	15.91	16.46	17.93
	4H	12.40	12.89	13.49	13.98	15.47	15.35	15.84	16.44	16.93	18.42
	6H	12.52	12.94	13.62	14.05	15.54	15.71	16.13	16.81	17.24	18.73
	8H	12.52	12.92	13.62	14.02	15.52	15.81	16.21	16.91	17.31	18.81
	12H	12.48	12.84	13.60	13.96	15.46	15.87	16.22	16.99	17.34	18.84
8H	4H	12.85	13.24	13.95	14.34	15.84	15.46	15.86	16.56	16.96	18.46
	6H	13.10	13.43	14.23	14.57	16.07	15.90	16.22	17.02	17.37	18.86
	8H	13.14	13.43	14.28	14.56	16.07	16.05	16.34	17.18	17.46	18.98
	12H	13.12	13.38	14.26	14.50	16.05	16.14	16.40	17.28	17.52	19.07
12H	4H	12.85	13.21	13.97	14.32	15.83	15.42	15.78	16.54	16.89	18.40
	6H	13.16	13.45	14.29	14.57	16.09	15.89	16.18	17.02	17.30	18.82
	8H	13.23	13.48	14.36	14.60	16.15	16.05	16.30	17.18	17.42	18.98