

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: P934648

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934648
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-92765-1D-UNV-STD-W-8-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

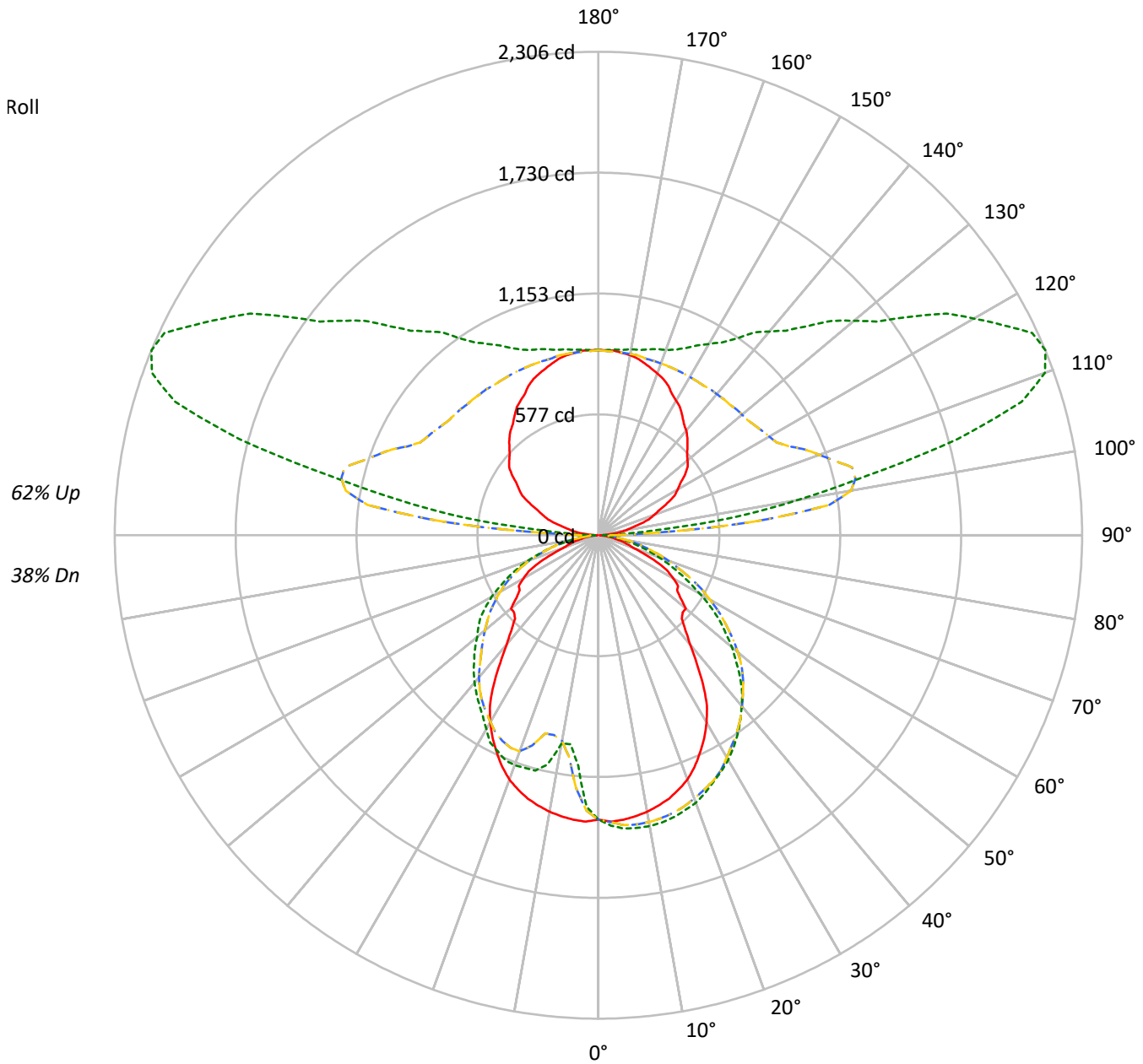
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9244.5 lumens
Efficiency: N/A
Efficacy: 134.4 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	50	30	10	0
RCR																					
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38			38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32			32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27			27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23			23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20			20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17			17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15			15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13			13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12			12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11			11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10			10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6290	6290	6290	6290
5°	6337	6349	6337	4992
10°	6294	6254	6294	4471
15°	6226	6118	6226	5109
20°	6096	5958	6096	5120
25°	5829	5724	5829	5011
30°	5485	5530	5485	4773
35°	4889	5284	4889	4511
40°	4075	4994	4075	4314
45°	3641	4656	3641	4086
50°	3868	4252	3868	3858
55°	3638	3816	3638	3726
60°	3751	3241	3751	3412
65°	3400	2679	3400	2995
70°	2355	2136	2355	2510
75°	2066	1579	2066	1891
80°	1662	1043	1662	1135
85°	960	553	960	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5579 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	1.3
10°-20°	347.4	3.8
20°-30°	537.1	5.8
30°-40°	641.2	6.9
40°-50°	644.9	7.0
50°-60°	561.2	6.1
60°-70°	397.9	4.3
70°-80°	210.5	2.3
80°-90°	55.8	0.6
90°-100°	430.6	4.7
100°-110°	1132.0	12.2
110°-120°	1173.7	12.7
120°-130°	941.5	10.2
130°-140°	738.7	8.0
140°-150°	567.0	6.1
150°-160°	408.3	4.4
160°-170°	249.8	2.7
170°-180°	84.4	0.9
0°-30°	1006.9	10.9
0°-40°	1648.1	17.8
0°-60°	2854.2	30.9
0°-90°	3518.3	38.1
90°-120°	2736.3	29.6
90°-150°	4983.6	53.9
90°-180°	5726.0	61.9
0°-180°	9244.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1356	1356	1356	1356	1356	
5°	1362	1404	1362	1104	1362	129
15°	1300	1392	1300	1162	1300	366
25°	1145	1298	1145	1136	1145	526
35°	871	1158	871	989	871	539
45°	562	954	562	838	562	450
55°	458	704	458	687	458	421
65°	318	424	318	475	318	304
75°	121	201	121	241	121	127
85°	21	51	21	44	21	28
90°	6	23	6	23	6	6
95°	57	260	57	260	57	63
105°	204	1772	204	1772	204	216
115°	362	2282	362	2282	362	358
125°	504	1818	504	1818	504	447
135°	600	1410	600	1410	600	465
145°	697	1144	697	1144	697	436
155°	787	985	787	985	787	362
165°	850	918	850	918	850	240
175°	883	889	883	889	883	84
180°	883	883	883	883	883	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1367.2	1367.2	1374.9	1377.5	1377.5	1373.6	1369.7	1373.6	1385.1	1389.0	1387.7
5°	1362.1	1372.3	1386.5	1389.0	1391.5	1390.3	1387.7	1390.3	1403.1	1405.7	1406.9
7.5°	1351.8	1371.1	1389.0	1392.9	1396.7	1392.9	1391.5	1394.1	1406.9	1409.5	1409.5
10°	1339.0	1365.9	1386.5	1389.0	1392.9	1389.0	1389.0	1394.1	1406.9	1409.5	1410.8
12.5°	1321.0	1358.2	1377.5	1380.0	1385.1	1383.9	1382.6	1387.7	1400.5	1403.1	1403.1
15°	1300.5	1344.1	1362.1	1364.6	1373.6	1371.1	1371.1	1376.2	1390.3	1394.1	1392.9
17.5°	1272.3	1326.1	1346.7	1350.5	1356.9	1355.7	1356.9	1362.1	1374.9	1377.5	1378.7
20°	1240.2	1301.8	1326.1	1330.0	1336.4	1336.4	1336.4	1342.8	1355.7	1360.8	1360.8
22.5°	1196.6	1276.1	1301.8	1304.3	1312.1	1312.1	1314.6	1323.6	1335.1	1336.4	1336.4
25°	1145.3	1247.9	1269.7	1277.4	1285.1	1288.9	1292.8	1297.9	1301.8	1300.5	1301.8
27.5°	1091.5	1212.0	1240.2	1245.3	1255.6	1259.5	1264.6	1265.9	1267.1	1271.0	1268.5
30°	1031.2	1162.0	1204.3	1209.5	1226.1	1228.7	1223.5	1226.1	1232.5	1235.1	1237.7
32.5°	963.2	1087.6	1167.1	1178.7	1194.1	1186.3	1185.1	1188.9	1199.2	1199.2	1201.7
35°	870.8	1029.9	1132.5	1142.7	1154.3	1145.3	1150.5	1151.7	1158.1	1162.0	1160.7
37.5°	769.5	979.9	1096.6	1104.3	1113.3	1101.7	1109.4	1113.3	1118.4	1115.8	1115.8
40°	679.8	901.6	1054.3	1059.4	1067.1	1058.1	1065.8	1068.4	1070.9	1068.4	1067.1
42.5°	613.0	815.7	1009.4	1015.8	1010.6	1017.1	1019.6	1024.8	1020.9	1015.8	1015.8
45°	561.8	792.6	960.6	968.3	960.6	970.9	974.7	974.7	963.2	960.6	959.3
47.5°	545.1	746.4	911.9	911.9	908.0	920.9	927.3	918.3	906.8	902.9	902.9
50°	543.8	695.2	845.2	840.1	858.0	873.4	867.0	858.0	849.0	834.9	834.9
52.5°	493.8	632.3	759.3	778.5	806.7	815.7	805.4	796.5	781.1	774.6	769.5
55°	457.8	566.9	681.0	719.5	749.0	760.6	741.3	732.3	709.2	705.4	702.8
57.5°	450.2	472.0	609.2	658.0	693.8	692.6	681.0	664.4	645.1	641.3	640.0
60°	413.0	341.2	532.2	590.0	627.2	623.3	613.0	597.6	579.7	577.2	574.6
62.5°	374.5	247.6	445.0	510.4	563.0	561.8	552.8	529.7	516.8	510.4	505.3
65°	318.0	207.8	316.8	424.5	500.2	502.8	483.5	466.8	452.8	445.0	443.8
67.5°	242.4	169.3	214.2	354.0	439.9	437.4	413.0	405.3	387.4	383.5	375.8
70°	179.6	112.8	148.8	287.3	380.9	374.5	355.2	346.3	329.6	320.6	315.5
72.5°	148.8	91.0	109.0	223.2	320.6	313.0	296.2	286.0	271.9	264.2	259.0
75°	120.6	96.2	83.4	165.4	260.4	255.2	239.8	229.6	218.0	207.8	209.0
77.5°	88.5	89.8	66.6	121.8	206.5	198.8	189.8	177.0	171.8	161.6	161.6
80°	66.6	70.6	50.0	83.4	148.8	148.8	141.0	132.1	123.2	118.0	118.0
82.5°	44.8	44.8	37.2	52.6	101.4	97.4	92.4	89.8	84.6	82.0	82.0
85°	20.6	25.6	23.0	32.0	55.2	57.8	57.8	55.2	53.8	51.3	52.6
87.5°	6.4	11.6	14.2	18.0	28.2	29.5	30.8	30.8	30.8	32.0	32.0
90°	5.9	10.7	15.5	16.6	26.1	38.7	45.0	40.1	30.0	22.6	22.6
92.5°	23.7	64.1	104.4	114.5	160.9	222.8	253.8	222.4	159.7	112.6	108.1
95°	56.9	130.7	204.4	222.9	395.8	626.3	741.6	661.8	502.1	382.4	368.8
97.5°	98.4	163.5	228.6	244.9	533.2	917.6	1109.8	1059.3	958.4	882.8	856.9
100°	130.4	189.4	248.5	263.2	583.2	1009.7	1223.0	1226.7	1234.1	1239.6	1208.8
102.5°	157.7	212.8	267.8	281.6	606.0	1038.7	1255.0	1319.3	1447.9	1544.3	1518.0
105°	204.0	250.6	297.2	308.9	623.1	1042.0	1251.5	1395.6	1683.8	1900.0	1885.8
107.5°	251.4	294.9	338.3	349.2	626.2	995.6	1180.3	1381.3	1783.4	2085.0	2088.4
110°	283.4	322.6	361.8	371.7	621.4	954.5	1121.0	1345.7	1795.3	2132.4	2147.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	314.8	352.2	389.6	398.9	621.6	918.6	1067.1	1297.2	1757.2	2102.2	2124.9
115°	362.2	396.7	431.2	439.8	627.4	877.4	1002.5	1224.0	1667.2	1999.6	2031.0
117.5°	409.1	440.4	471.8	479.6	639.1	851.7	958.0	1157.9	1557.9	1857.9	1892.7
120°	436.3	465.8	495.3	502.7	648.5	843.0	940.2	1123.0	1488.4	1762.5	1796.3
122.5°	463.0	492.8	522.6	530.0	662.2	838.4	926.6	1091.1	1420.2	1667.0	1700.4
125°	503.9	531.1	558.1	564.9	680.5	834.7	911.7	1051.5	1331.0	1540.7	1571.5
127.5°	537.1	564.5	591.9	598.8	699.0	832.6	899.3	1019.3	1259.3	1439.4	1465.3
130°	554.9	584.3	613.9	621.2	712.4	833.9	894.6	1001.4	1215.1	1375.4	1399.4
132.5°	573.2	602.8	632.3	639.7	723.3	834.7	890.4	986.0	1177.4	1320.8	1342.3
135°	600.5	627.4	654.3	661.0	735.1	833.9	883.3	963.5	1123.6	1243.7	1262.3
137.5°	628.4	655.0	681.6	688.3	752.9	839.1	882.1	949.8	1085.3	1186.8	1201.9
140°	651.5	676.0	700.5	706.6	763.7	839.9	878.0	936.5	1053.4	1141.2	1155.4
142.5°	669.3	692.0	714.7	720.3	772.9	843.0	878.0	929.3	1032.1	1109.2	1121.3
145°	696.6	716.4	736.1	741.0	784.7	843.0	872.0	914.1	998.2	1061.2	1070.4
147.5°	723.8	743.1	762.4	767.2	802.2	848.7	872.0	905.1	971.2	1020.8	1028.5
150°	741.6	759.0	776.4	780.7	811.1	851.8	872.0	900.0	955.8	997.7	1003.9
152.5°	760.0	773.2	786.4	789.6	817.1	853.7	872.0	895.9	943.6	979.3	984.0
155°	787.2	797.0	806.7	809.2	830.2	858.1	872.0	891.0	928.9	957.4	960.5
157.5°	807.4	816.9	826.3	828.7	843.2	862.4	872.0	886.8	916.3	938.4	940.6
160°	821.1	828.4	835.8	837.6	849.1	864.4	872.0	884.7	910.0	928.9	930.2
162.5°	834.7	840.2	845.8	847.2	855.5	866.5	872.0	882.8	904.1	920.0	921.2
165°	849.5	854.5	859.5	860.8	864.5	869.6	872.0	879.7	895.0	906.5	907.7
167.5°	863.2	865.5	867.9	868.5	871.7	875.9	878.0	882.9	893.0	900.5	901.0
170°	872.0	874.4	876.8	877.4	877.6	877.9	878.0	882.9	893.0	900.5	900.5
172.5°	876.8	877.3	877.9	878.0	878.0	878.0	878.0	881.9	889.8	895.8	895.3
175°	883.3	883.3	883.3	883.3	881.5	879.1	878.0	880.5	885.5	889.3	889.3
177.5°	883.3	883.3	883.3	883.3	881.9	880.1	879.1	881.1	885.1	888.0	887.5
180°	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1390.3	1386.5	1390.3	1387.7	1389.0	1385.1	1373.6	1369.7	1373.6	1377.5	1377.5
5°	1406.9	1404.4	1406.9	1406.9	1405.7	1403.1	1390.3	1387.7	1390.3	1391.5	1389.0
7.5°	1412.1	1408.3	1412.1	1409.5	1409.5	1406.9	1394.1	1391.5	1392.9	1396.7	1392.9
10°	1412.1	1408.3	1412.1	1410.8	1409.5	1406.9	1394.1	1389.0	1389.0	1392.9	1389.0
12.5°	1405.7	1403.1	1405.7	1403.1	1403.1	1400.5	1387.7	1382.6	1383.9	1385.1	1380.0
15°	1395.4	1391.5	1395.4	1392.9	1394.1	1390.3	1376.2	1371.1	1371.1	1373.6	1364.6
17.5°	1380.0	1374.9	1380.0	1378.7	1377.5	1374.9	1362.1	1356.9	1355.7	1356.9	1350.5
20°	1362.1	1358.2	1362.1	1360.8	1360.8	1355.7	1342.8	1336.4	1336.4	1336.4	1330.0
22.5°	1333.9	1330.0	1333.9	1336.4	1336.4	1335.1	1323.6	1314.6	1312.1	1312.1	1304.3
25°	1301.8	1297.9	1301.8	1301.8	1300.5	1301.8	1297.9	1292.8	1288.9	1285.1	1277.4
27.5°	1271.0	1268.5	1271.0	1268.5	1271.0	1267.1	1265.9	1264.6	1259.5	1255.6	1245.3
30°	1240.2	1237.7	1240.2	1237.7	1235.1	1232.5	1226.1	1223.5	1228.7	1226.1	1209.5
32.5°	1201.7	1199.2	1201.7	1201.7	1199.2	1199.2	1188.9	1185.1	1186.3	1194.1	1178.7
35°	1162.0	1158.1	1162.0	1160.7	1162.0	1158.1	1151.7	1150.5	1145.3	1154.3	1142.7
37.5°	1115.8	1112.0	1115.8	1115.8	1115.8	1118.4	1113.3	1109.4	1101.7	1113.3	1104.3
40°	1068.4	1063.2	1068.4	1067.1	1068.4	1070.9	1068.4	1065.8	1058.1	1067.1	1059.4
42.5°	1014.5	1013.2	1014.5	1015.8	1015.8	1020.9	1024.8	1019.6	1017.1	1010.6	1015.8
45°	956.8	954.2	956.8	959.3	960.6	963.2	974.7	974.7	970.9	960.6	968.3
47.5°	895.2	888.8	895.2	902.9	902.9	906.8	918.3	927.3	920.9	908.0	911.9
50°	829.8	831.1	829.8	834.9	834.9	849.0	858.0	867.0	873.4	858.0	840.1
52.5°	765.7	764.4	765.7	769.5	774.6	781.1	796.5	805.4	815.7	806.7	778.5
55°	701.6	704.1	701.6	702.8	705.4	709.2	732.3	741.3	760.6	749.0	719.5
57.5°	637.4	633.6	637.4	640.0	641.3	645.1	664.4	681.0	692.6	693.8	658.0
60°	563.0	557.9	563.0	574.6	577.2	579.7	597.6	613.0	623.3	627.2	590.0
62.5°	497.6	488.6	497.6	505.3	510.4	516.8	529.7	552.8	561.8	563.0	510.4
65°	428.4	424.5	428.4	443.8	445.0	452.8	466.8	483.5	502.8	500.2	424.5
67.5°	365.6	365.6	365.6	375.8	383.5	387.4	405.3	413.0	437.4	439.9	354.0
70°	307.8	306.6	307.8	315.5	320.6	329.6	346.3	355.2	374.5	380.9	287.3
72.5°	252.6	251.4	252.6	259.0	264.2	271.9	286.0	296.2	313.0	320.6	223.2
75°	204.0	201.4	204.0	209.0	207.8	218.0	229.6	239.8	255.2	260.4	165.4
77.5°	156.4	156.4	156.4	161.6	161.6	171.8	177.0	189.8	198.8	206.5	121.8
80°	116.8	115.4	116.8	118.0	118.0	123.2	132.1	141.0	148.8	148.8	83.4
82.5°	82.0	79.6	82.0	82.0	82.0	84.6	89.8	92.4	97.4	101.4	52.6
85°	51.3	51.3	51.3	52.6	51.3	53.8	55.2	57.8	57.8	55.2	32.0
87.5°	33.4	32.0	33.4	32.0	32.0	30.8	30.8	30.8	29.5	28.2	18.0
90°	22.6	22.6	22.6	22.6	22.6	30.0	40.1	45.0	38.7	26.1	16.6
92.5°	90.3	72.3	90.3	108.1	112.6	159.7	222.4	253.8	222.8	160.9	114.5
95°	314.6	260.3	314.6	368.8	382.4	502.1	661.8	741.6	626.3	395.8	222.9
97.5°	753.6	650.3	753.6	856.9	882.8	958.4	1059.3	1109.8	917.6	533.2	244.9
100°	1085.9	962.8	1085.9	1208.8	1239.6	1234.1	1226.7	1223.0	1009.7	583.2	263.2
102.5°	1412.6	1307.2	1412.6	1518.0	1544.3	1447.9	1319.3	1255.0	1038.7	606.0	281.6
105°	1829.1	1772.5	1829.1	1885.8	1900.0	1683.8	1395.6	1251.5	1042.0	623.1	308.9
107.5°	2102.1	2115.8	2102.1	2088.4	2085.0	1783.4	1381.3	1180.3	995.6	626.2	349.2
110°	2206.2	2265.2	2206.2	2147.1	2132.4	1795.3	1345.7	1121.0	954.5	621.4	371.7



TEST NUMBER: P934648

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2215.4	2306.1	2215.4	2124.9	2102.2	1757.2	1297.2	1067.1	918.6	621.6	398.9
115°	2156.7	2282.3	2156.7	2031.0	1999.6	1667.2	1224.0	1002.5	877.4	627.4	439.8
117.5°	2032.1	2171.5	2032.1	1892.7	1857.9	1557.9	1157.9	958.0	851.7	639.1	479.6
120°	1931.8	2067.2	1931.8	1796.3	1762.5	1488.4	1123.0	940.2	843.0	648.5	502.7
122.5°	1834.0	1967.6	1834.0	1700.4	1667.0	1420.2	1091.1	926.6	838.4	662.2	530.0
125°	1694.6	1817.6	1694.6	1571.5	1540.7	1331.0	1051.5	911.7	834.7	680.5	564.9
127.5°	1569.1	1673.0	1569.1	1465.3	1439.4	1259.3	1019.3	899.3	832.6	699.0	598.8
130°	1495.2	1591.1	1495.2	1399.4	1375.4	1215.1	1001.4	894.6	833.9	712.4	621.2
132.5°	1428.2	1514.0	1428.2	1342.3	1320.8	1177.4	986.0	890.4	834.7	723.3	639.7
135°	1336.3	1410.3	1336.3	1262.3	1243.7	1123.6	963.5	883.3	833.9	735.1	661.0
137.5°	1262.6	1323.2	1262.6	1201.9	1186.8	1085.3	949.8	882.1	839.1	752.9	688.3
140°	1212.1	1268.7	1212.1	1155.4	1141.2	1053.4	936.5	878.0	839.9	763.7	706.6
142.5°	1170.1	1218.9	1170.1	1121.3	1109.2	1032.1	929.3	878.0	843.0	772.9	720.3
145°	1107.3	1144.2	1107.3	1070.4	1061.2	998.2	914.1	872.0	843.0	784.7	741.0
147.5°	1059.0	1089.6	1059.0	1028.5	1020.8	971.2	905.1	872.0	848.7	802.2	767.2
150°	1028.7	1053.4	1028.7	1003.9	997.7	955.8	900.0	872.0	851.8	811.1	780.7
152.5°	1002.7	1021.4	1002.7	984.0	979.3	943.6	895.9	872.0	853.7	817.1	789.6
155°	972.9	985.3	972.9	960.5	957.4	928.9	891.0	872.0	858.1	830.2	809.2
157.5°	949.3	958.0	949.3	940.6	938.4	916.3	886.8	872.0	862.4	843.2	828.7
160°	935.3	940.2	935.3	930.2	928.9	910.0	884.7	872.0	864.4	849.1	837.6
162.5°	926.0	930.8	926.0	921.2	920.0	904.1	882.8	872.0	866.5	855.5	847.2
165°	912.7	917.7	912.7	907.7	906.5	895.0	879.7	872.0	869.6	864.5	860.8
167.5°	903.1	905.2	903.1	901.0	900.5	893.0	882.9	878.0	875.9	871.7	868.5
170°	900.5	900.5	900.5	900.5	900.5	893.0	882.9	878.0	877.9	877.6	877.4
172.5°	893.5	891.6	893.5	895.3	895.8	889.8	881.9	878.0	878.0	878.0	878.0
175°	889.3	889.3	889.3	889.3	889.3	885.5	880.5	878.0	879.1	881.5	883.3
177.5°	885.4	883.3	885.4	887.5	888.0	885.1	881.1	879.1	880.1	881.9	883.3
180°	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3



TEST NUMBER: P934648

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1374.9	1367.2	1367.2	1354.4	1349.3	1345.4	1339.0	1319.7	1314.6	1309.5	1317.2
5°	1386.5	1372.3	1362.1	1339.0	1319.7	1312.1	1287.7	1241.5	1210.7	1187.6	1174.8
7.5°	1389.0	1371.1	1351.8	1315.9	1269.7	1249.2	1174.8	1090.2	1067.1	1046.6	1033.7
10°	1386.5	1365.9	1339.0	1285.1	1176.1	1140.2	1065.8	1010.6	996.5	992.7	996.5
12.5°	1377.5	1358.2	1321.0	1231.3	1078.6	1054.3	1010.6	978.6	976.0	982.4	1017.1
15°	1362.1	1344.1	1300.5	1159.4	1024.8	1006.8	976.0	964.5	978.6	1023.5	1127.4
17.5°	1346.7	1326.1	1272.3	1088.9	983.7	970.9	949.1	972.2	1051.7	1112.0	1146.6
20°	1326.1	1301.8	1240.2	1037.6	954.2	942.7	932.4	1036.3	1096.6	1118.4	1137.6
22.5°	1301.8	1276.1	1196.6	1001.7	923.4	914.5	920.9	1072.2	1096.6	1112.0	1128.6
25°	1269.7	1247.9	1145.3	973.5	899.1	888.8	913.2	1068.4	1082.5	1086.3	1119.7
27.5°	1240.2	1212.0	1091.5	947.8	869.6	865.7	919.6	1051.7	1061.9	1065.8	1101.7
30°	1204.3	1162.0	1031.2	920.9	838.8	837.5	920.9	1031.2	1028.6	1038.9	1074.8
32.5°	1167.1	1087.6	963.2	887.5	809.3	808.0	911.9	1000.4	997.8	1011.9	1038.9
35°	1132.5	1029.9	870.8	849.0	772.1	773.4	890.1	964.5	965.8	978.6	995.3
37.5°	1096.6	979.9	769.5	806.7	736.2	736.2	860.6	931.1	928.6	932.4	955.5
40°	1054.3	901.6	679.8	751.6	702.8	699.0	824.7	895.2	886.2	885.0	917.0
42.5°	1009.4	815.7	613.0	678.5	664.4	659.2	781.1	851.6	834.9	838.8	879.8
45°	960.6	792.6	561.8	573.3	624.6	620.8	733.6	801.6	790.0	800.3	842.6
47.5°	911.9	746.4	545.1	475.8	582.3	581.0	681.0	752.8	746.4	756.7	801.6
50°	845.2	695.2	543.8	407.8	534.8	540.0	618.2	705.4	705.4	714.4	761.8
52.5°	759.3	632.3	493.8	369.4	479.6	495.0	563.0	664.4	666.9	675.9	718.2
55°	681.0	566.9	457.8	339.8	414.2	447.6	509.2	622.0	627.2	636.2	674.6
57.5°	609.2	472.0	450.2	305.2	354.0	386.0	461.7	581.0	583.6	591.2	628.4
60°	532.2	341.2	413.0	268.0	301.4	325.8	418.1	532.2	541.2	546.4	578.4
62.5°	445.0	247.6	374.5	242.4	275.8	280.8	382.2	486.1	497.6	501.5	520.7
65°	316.8	207.8	318.0	220.6	248.8	250.1	343.8	438.6	448.9	455.3	469.4
67.5°	214.2	169.3	242.4	200.0	228.3	229.6	306.6	383.5	397.6	402.7	411.7
70°	148.8	112.8	179.6	178.2	205.2	207.8	266.8	333.4	346.3	350.2	355.2
72.5°	109.0	91.0	148.8	160.4	180.8	183.4	225.8	277.0	289.8	293.7	296.2
75°	83.4	96.2	120.6	139.8	153.9	155.2	184.6	225.8	234.7	237.2	238.6
77.5°	66.6	89.8	88.5	112.8	125.6	123.2	145.0	174.4	182.2	182.2	182.2
80°	50.0	70.6	66.6	80.8	92.4	89.8	103.8	124.4	127.0	129.6	128.2
82.5°	37.2	44.8	44.8	51.3	61.6	59.0	69.2	80.8	80.8	80.8	83.4
85°	23.0	25.6	20.6	27.0	34.6	33.4	38.4	43.6	44.8	44.8	42.4
87.5°	14.2	11.6	6.4	10.2	15.4	15.4	18.0	19.2	18.0	18.0	18.0
90°	15.5	10.7	5.9	10.7	15.5	16.6	26.1	38.7	45.0	40.1	30.0
92.5°	104.4	64.1	23.7	64.1	104.4	114.5	160.9	222.8	253.8	222.4	159.7
95°	204.4	130.7	56.9	130.7	204.4	222.9	395.8	626.3	741.6	661.8	502.1
97.5°	228.6	163.5	98.4	163.5	228.6	244.9	533.2	917.6	1109.8	1059.3	958.4
100°	248.5	189.4	130.4	189.4	248.5	263.2	583.2	1009.7	1223.0	1226.7	1234.1
102.5°	267.8	212.8	157.7	212.8	267.8	281.6	606.0	1038.7	1255.0	1319.3	1447.9
105°	297.2	250.6	204.0	250.6	297.2	308.9	623.1	1042.0	1251.5	1395.6	1683.8
107.5°	338.3	294.9	251.4	294.9	338.3	349.2	626.2	995.6	1180.3	1381.3	1783.4
110°	361.8	322.6	283.4	322.6	361.8	371.7	621.4	954.5	1121.0	1345.7	1795.3



TEST NUMBER: P934648

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	389.6	352.2	314.8	352.2	389.6	398.9	621.6	918.6	1067.1	1297.2	1757.2
115°	431.2	396.7	362.2	396.7	431.2	439.8	627.4	877.4	1002.5	1224.0	1667.2
117.5°	471.8	440.4	409.1	440.4	471.8	479.6	639.1	851.7	958.0	1157.9	1557.9
120°	495.3	465.8	436.3	465.8	495.3	502.7	648.5	843.0	940.2	1123.0	1488.4
122.5°	522.6	492.8	463.0	492.8	522.6	530.0	662.2	838.4	926.6	1091.1	1420.2
125°	558.1	531.1	503.9	531.1	558.1	564.9	680.5	834.7	911.7	1051.5	1331.0
127.5°	591.9	564.5	537.1	564.5	591.9	598.8	699.0	832.6	899.3	1019.3	1259.3
130°	613.9	584.3	554.9	584.3	613.9	621.2	712.4	833.9	894.6	1001.4	1215.1
132.5°	632.3	602.8	573.2	602.8	632.3	639.7	723.3	834.7	890.4	986.0	1177.4
135°	654.3	627.4	600.5	627.4	654.3	661.0	735.1	833.9	883.3	963.5	1123.6
137.5°	681.6	655.0	628.4	655.0	681.6	688.3	752.9	839.1	882.1	949.8	1085.3
140°	700.5	676.0	651.5	676.0	700.5	706.6	763.7	839.9	878.0	936.5	1053.4
142.5°	714.7	692.0	669.3	692.0	714.7	720.3	772.9	843.0	878.0	929.3	1032.1
145°	736.1	716.4	696.6	716.4	736.1	741.0	784.7	843.0	872.0	914.1	998.2
147.5°	762.4	743.1	723.8	743.1	762.4	767.2	802.2	848.7	872.0	905.1	971.2
150°	776.4	759.0	741.6	759.0	776.4	780.7	811.1	851.8	872.0	900.0	955.8
152.5°	786.4	773.2	760.0	773.2	786.4	789.6	817.1	853.7	872.0	895.9	943.6
155°	806.7	797.0	787.2	797.0	806.7	809.2	830.2	858.1	872.0	891.0	928.9
157.5°	826.3	816.9	807.4	816.9	826.3	828.7	843.2	862.4	872.0	886.8	916.3
160°	835.8	828.4	821.1	828.4	835.8	837.6	849.1	864.4	872.0	884.7	910.0
162.5°	845.8	840.2	834.7	840.2	845.8	847.2	855.5	866.5	872.0	882.8	904.1
165°	859.5	854.5	849.5	854.5	859.5	860.8	864.5	869.6	872.0	879.7	895.0
167.5°	867.9	865.5	863.2	865.5	867.9	868.5	871.7	875.9	878.0	882.9	893.0
170°	876.8	874.4	872.0	874.4	876.8	877.4	877.6	877.9	878.0	882.9	893.0
172.5°	877.9	877.3	876.8	877.3	877.9	878.0	878.0	878.0	878.0	881.9	889.8
175°	883.3	883.3	883.3	883.3	883.3	883.3	881.5	879.1	878.0	880.5	885.5
177.5°	883.3	883.3	883.3	883.3	883.3	883.3	881.9	880.1	879.1	881.1	885.1
180°	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3



TEST NUMBER: P934648

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1308.2	1304.3	1309.5	1295.4	1309.5	1304.3	1308.2	1317.2	1309.5	1314.6	1319.7
5°	1147.9	1141.5	1120.9	1104.3	1120.9	1141.5	1147.9	1174.8	1187.6	1210.7	1241.5
7.5°	1026.0	1020.9	1015.8	1005.5	1015.8	1020.9	1026.0	1033.7	1046.6	1067.1	1090.2
10°	999.1	1000.4	1008.1	1006.8	1008.1	1000.4	999.1	996.5	992.7	996.5	1010.6
12.5°	1068.4	1079.9	1122.2	1119.7	1122.2	1079.9	1068.4	1017.1	982.4	976.0	978.6
15°	1147.9	1151.7	1160.7	1162.0	1160.7	1151.7	1147.9	1127.4	1023.5	978.6	964.5
17.5°	1155.6	1156.9	1163.3	1163.3	1163.3	1156.9	1155.6	1146.6	1112.0	1051.7	972.2
20°	1149.2	1151.7	1164.5	1167.1	1164.5	1151.7	1149.2	1137.6	1118.4	1096.6	1036.3
22.5°	1146.6	1151.7	1162.0	1160.7	1162.0	1151.7	1146.6	1128.6	1112.0	1096.6	1072.2
25°	1133.8	1133.8	1135.1	1136.3	1135.1	1133.8	1133.8	1119.7	1086.3	1082.5	1068.4
27.5°	1106.8	1109.4	1117.1	1115.8	1117.1	1109.4	1106.8	1101.7	1065.8	1061.9	1051.7
30°	1082.5	1079.9	1073.5	1068.4	1073.5	1079.9	1082.5	1074.8	1038.9	1028.6	1031.2
32.5°	1041.4	1035.0	1028.6	1024.8	1028.6	1035.0	1041.4	1038.9	1011.9	997.8	1000.4
35°	992.7	994.0	992.7	988.8	992.7	994.0	992.7	995.3	978.6	965.8	964.5
37.5°	958.1	960.6	959.3	954.2	959.3	960.6	958.1	955.5	932.4	928.6	931.1
40°	922.2	923.4	922.2	918.3	922.2	923.4	922.2	917.0	885.0	886.2	895.2
42.5°	887.5	886.2	882.4	879.8	882.4	886.2	887.5	879.8	838.8	834.9	851.6
45°	847.8	849.0	841.4	837.5	841.4	849.0	847.8	842.6	800.3	790.0	801.6
47.5°	808.0	808.0	801.6	797.8	801.6	808.0	808.0	801.6	756.7	746.4	752.8
50°	765.7	764.4	755.4	754.1	755.4	764.4	765.7	761.8	714.4	705.4	705.4
52.5°	717.0	717.0	718.2	720.8	718.2	717.0	717.0	718.2	675.9	666.9	664.4
55°	674.6	675.9	684.9	687.4	684.9	675.9	674.6	674.6	636.2	627.2	622.0
57.5°	631.0	631.0	637.4	637.4	637.4	631.0	631.0	628.4	591.2	583.6	581.0
60°	581.0	583.6	588.7	587.4	588.7	583.6	581.0	578.4	546.4	541.2	532.2
62.5°	528.4	531.0	532.2	529.7	532.2	531.0	528.4	520.7	501.5	497.6	486.1
65°	473.2	475.8	477.1	474.6	477.1	475.8	473.2	469.4	455.3	448.9	438.6
67.5°	416.8	415.6	414.2	419.4	414.2	415.6	416.8	411.7	402.7	397.6	383.5
70°	359.1	359.1	357.8	360.4	357.8	359.1	359.1	355.2	350.2	346.3	333.4
72.5°	297.6	296.2	301.4	297.6	301.4	296.2	297.6	296.2	293.7	289.8	277.0
75°	237.2	239.8	237.2	241.2	237.2	239.8	237.2	238.6	237.2	234.7	225.8
77.5°	180.8	183.4	180.8	180.8	180.8	183.4	180.8	182.2	182.2	182.2	174.4
80°	128.2	127.0	127.0	125.6	127.0	127.0	128.2	128.2	129.6	127.0	124.4
82.5°	82.0	80.8	80.8	83.4	80.8	80.8	82.0	83.4	80.8	80.8	80.8
85°	44.8	46.2	43.6	43.6	43.6	46.2	44.8	42.4	44.8	44.8	43.6
87.5°	16.6	15.4	15.4	15.4	15.4	15.4	16.6	18.0	18.0	18.0	19.2
90°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	30.0	40.1	45.0	38.7
92.5°	112.6	108.1	90.3	72.3	90.3	108.1	112.6	159.7	222.4	253.8	222.8
95°	382.4	368.8	314.6	260.3	314.6	368.8	382.4	502.1	661.8	741.6	626.3
97.5°	882.8	856.9	753.6	650.3	753.6	856.9	882.8	958.4	1059.3	1109.8	917.6
100°	1239.6	1208.8	1085.9	962.8	1085.9	1208.8	1239.6	1234.1	1226.7	1223.0	1009.7
102.5°	1544.3	1518.0	1412.6	1307.2	1412.6	1518.0	1544.3	1447.9	1319.3	1255.0	1038.7
105°	1900.0	1885.8	1829.1	1772.5	1829.1	1885.8	1900.0	1683.8	1395.6	1251.5	1042.0
107.5°	2085.0	2088.4	2102.1	2115.8	2102.1	2088.4	2085.0	1783.4	1381.3	1180.3	995.6
110°	2132.4	2147.1	2206.2	2265.2	2206.2	2147.1	2132.4	1795.3	1345.7	1121.0	954.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2102.2	2124.9	2215.4	2306.1	2215.4	2124.9	2102.2	1757.2	1297.2	1067.1	918.6
115°	1999.6	2031.0	2156.7	2282.3	2156.7	2031.0	1999.6	1667.2	1224.0	1002.5	877.4
117.5°	1857.9	1892.7	2032.1	2171.5	2032.1	1892.7	1857.9	1557.9	1157.9	958.0	851.7
120°	1762.5	1796.3	1931.8	2067.2	1931.8	1796.3	1762.5	1488.4	1123.0	940.2	843.0
122.5°	1667.0	1700.4	1834.0	1967.6	1834.0	1700.4	1667.0	1420.2	1091.1	926.6	838.4
125°	1540.7	1571.5	1694.6	1817.6	1694.6	1571.5	1540.7	1331.0	1051.5	911.7	834.7
127.5°	1439.4	1465.3	1569.1	1673.0	1569.1	1465.3	1439.4	1259.3	1019.3	899.3	832.6
130°	1375.4	1399.4	1495.2	1591.1	1495.2	1399.4	1375.4	1215.1	1001.4	894.6	833.9
132.5°	1320.8	1342.3	1428.2	1514.0	1428.2	1342.3	1320.8	1177.4	986.0	890.4	834.7
135°	1243.7	1262.3	1336.3	1410.3	1336.3	1262.3	1243.7	1123.6	963.5	883.3	833.9
137.5°	1186.8	1201.9	1262.6	1323.2	1262.6	1201.9	1186.8	1085.3	949.8	882.1	839.1
140°	1141.2	1155.4	1212.1	1268.7	1212.1	1155.4	1141.2	1053.4	936.5	878.0	839.9
142.5°	1109.2	1121.3	1170.1	1218.9	1170.1	1121.3	1109.2	1032.1	929.3	878.0	843.0
145°	1061.2	1070.4	1107.3	1144.2	1107.3	1070.4	1061.2	998.2	914.1	872.0	843.0
147.5°	1020.8	1028.5	1059.0	1089.6	1059.0	1028.5	1020.8	971.2	905.1	872.0	848.7
150°	997.7	1003.9	1028.7	1053.4	1028.7	1003.9	997.7	955.8	900.0	872.0	851.8
152.5°	979.3	984.0	1002.7	1021.4	1002.7	984.0	979.3	943.6	895.9	872.0	853.7
155°	957.4	960.5	972.9	985.3	972.9	960.5	957.4	928.9	891.0	872.0	858.1
157.5°	938.4	940.6	949.3	958.0	949.3	940.6	938.4	916.3	886.8	872.0	862.4
160°	928.9	930.2	935.3	940.2	935.3	930.2	928.9	910.0	884.7	872.0	864.4
162.5°	920.0	921.2	926.0	930.8	926.0	921.2	920.0	904.1	882.8	872.0	866.5
165°	906.5	907.7	912.7	917.7	912.7	907.7	906.5	895.0	879.7	872.0	869.6
167.5°	900.5	901.0	903.1	905.2	903.1	901.0	900.5	893.0	882.9	878.0	875.9
170°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	893.0	882.9	878.0	877.9
172.5°	895.8	895.3	893.5	891.6	893.5	895.3	895.8	889.8	881.9	878.0	878.0
175°	889.3	889.3	889.3	889.3	889.3	889.3	889.3	885.5	880.5	878.0	879.1
177.5°	888.0	887.5	885.4	883.3	885.4	887.5	888.0	885.1	881.1	879.1	880.1
180°	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3	883.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1339.0	1345.4	1349.3	1354.4	1367.2
5°	1287.7	1312.1	1319.7	1339.0	1362.1
7.5°	1174.8	1249.2	1269.7	1315.9	1351.8
10°	1065.8	1140.2	1176.1	1285.1	1339.0
12.5°	1010.6	1054.3	1078.6	1231.3	1321.0
15°	976.0	1006.8	1024.8	1159.4	1300.5
17.5°	949.1	970.9	983.7	1088.9	1272.3
20°	932.4	942.7	954.2	1037.6	1240.2
22.5°	920.9	914.5	923.4	1001.7	1196.6
25°	913.2	888.8	899.1	973.5	1145.3
27.5°	919.6	865.7	869.6	947.8	1091.5
30°	920.9	837.5	838.8	920.9	1031.2
32.5°	911.9	808.0	809.3	887.5	963.2
35°	890.1	773.4	772.1	849.0	870.8
37.5°	860.6	736.2	736.2	806.7	769.5
40°	824.7	699.0	702.8	751.6	679.8
42.5°	781.1	659.2	664.4	678.5	613.0
45°	733.6	620.8	624.6	573.3	561.8
47.5°	681.0	581.0	582.3	475.8	545.1
50°	618.2	540.0	534.8	407.8	543.8
52.5°	563.0	495.0	479.6	369.4	493.8
55°	509.2	447.6	414.2	339.8	457.8
57.5°	461.7	386.0	354.0	305.2	450.2
60°	418.1	325.8	301.4	268.0	413.0
62.5°	382.2	280.8	275.8	242.4	374.5
65°	343.8	250.1	248.8	220.6	318.0
67.5°	306.6	229.6	228.3	200.0	242.4
70°	266.8	207.8	205.2	178.2	179.6
72.5°	225.8	183.4	180.8	160.4	148.8
75°	184.6	155.2	153.9	139.8	120.6
77.5°	145.0	123.2	125.6	112.8	88.5
80°	103.8	89.8	92.4	80.8	66.6
82.5°	69.2	59.0	61.6	51.3	44.8
85°	38.4	33.4	34.6	27.0	20.6
87.5°	18.0	15.4	15.4	10.2	6.4
90°	26.1	16.6	15.5	10.7	5.9
92.5°	160.9	114.5	104.4	64.1	23.7
95°	395.8	222.9	204.4	130.7	56.9
97.5°	533.2	244.9	228.6	163.5	98.4
100°	583.2	263.2	248.5	189.4	130.4
102.5°	606.0	281.6	267.8	212.8	157.7
105°	623.1	308.9	297.2	250.6	204.0
107.5°	626.2	349.2	338.3	294.9	251.4
110°	621.4	371.7	361.8	322.6	283.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	621.6	398.9	389.6	352.2	314.8
115°	627.4	439.8	431.2	396.7	362.2
117.5°	639.1	479.6	471.8	440.4	409.1
120°	648.5	502.7	495.3	465.8	436.3
122.5°	662.2	530.0	522.6	492.8	463.0
125°	680.5	564.9	558.1	531.1	503.9
127.5°	699.0	598.8	591.9	564.5	537.1
130°	712.4	621.2	613.9	584.3	554.9
132.5°	723.3	639.7	632.3	602.8	573.2
135°	735.1	661.0	654.3	627.4	600.5
137.5°	752.9	688.3	681.6	655.0	628.4
140°	763.7	706.6	700.5	676.0	651.5
142.5°	772.9	720.3	714.7	692.0	669.3
145°	784.7	741.0	736.1	716.4	696.6
147.5°	802.2	767.2	762.4	743.1	723.8
150°	811.1	780.7	776.4	759.0	741.6
152.5°	817.1	789.6	786.4	773.2	760.0
155°	830.2	809.2	806.7	797.0	787.2
157.5°	843.2	828.7	826.3	816.9	807.4
160°	849.1	837.6	835.8	828.4	821.1
162.5°	855.5	847.2	845.8	840.2	834.7
165°	864.5	860.8	859.5	854.5	849.5
167.5°	871.7	868.5	867.9	865.5	863.2
170°	877.6	877.4	876.8	874.4	872.0
172.5°	878.0	878.0	877.9	877.3	876.8
175°	881.5	883.3	883.3	883.3	883.3
177.5°	881.9	883.3	883.3	883.3	883.3
180°	883.3	883.3	883.3	883.3	883.3



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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	9.98	10.74	11.03	11.80	13.23	12.82	13.58	13.87	14.64	16.07
	3H	10.45	11.13	11.51	12.20	13.65	14.16	14.84	15.22	15.91	17.36
	4H	10.64	11.28	11.71	12.35	13.81	14.60	15.25	15.67	16.32	17.77
	6H	10.75	11.35	11.83	12.42	13.89	14.88	15.48	15.97	16.55	18.02
	8H	10.75	11.32	11.84	12.40	13.87	14.95	15.52	16.04	16.61	18.07
	12H	10.72	11.25	11.81	12.34	13.82	14.99	15.53	16.08	16.61	18.10
4H	2H	11.00	11.65	12.08	12.72	14.18	13.21	13.86	14.30	14.93	16.39
	3H	12.02	12.56	13.11	13.66	15.13	14.71	15.25	15.80	16.35	17.82
	4H	12.29	12.79	13.39	13.87	15.36	15.24	15.73	16.33	16.82	18.31
	6H	12.41	12.84	13.51	13.95	15.43	15.60	16.03	16.70	17.13	18.62
	8H	12.41	12.81	13.52	13.91	15.41	15.71	16.10	16.81	17.20	18.70
	12H	12.38	12.74	13.50	13.85	15.36	15.76	16.12	16.88	17.23	18.74
8H	4H	12.74	13.14	13.84	14.24	15.74	15.36	15.75	16.46	16.85	18.35
	6H	13.00	13.32	14.12	14.47	15.96	15.79	16.12	16.91	17.26	18.76
	8H	13.04	13.32	14.17	14.45	15.97	15.94	16.23	17.07	17.35	18.87
	12H	13.02	13.27	14.15	14.39	15.94	16.04	16.29	17.17	17.41	18.96
12H	4H	12.74	13.10	13.86	14.21	15.72	15.32	15.67	16.43	16.79	18.29
	6H	13.06	13.34	14.19	14.47	15.99	15.79	16.07	16.92	17.20	18.71
	8H	13.12	13.37	14.25	14.49	16.05	15.94	16.20	17.08	17.32	18.87