

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: P936036

Luminaire Tested: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936036
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

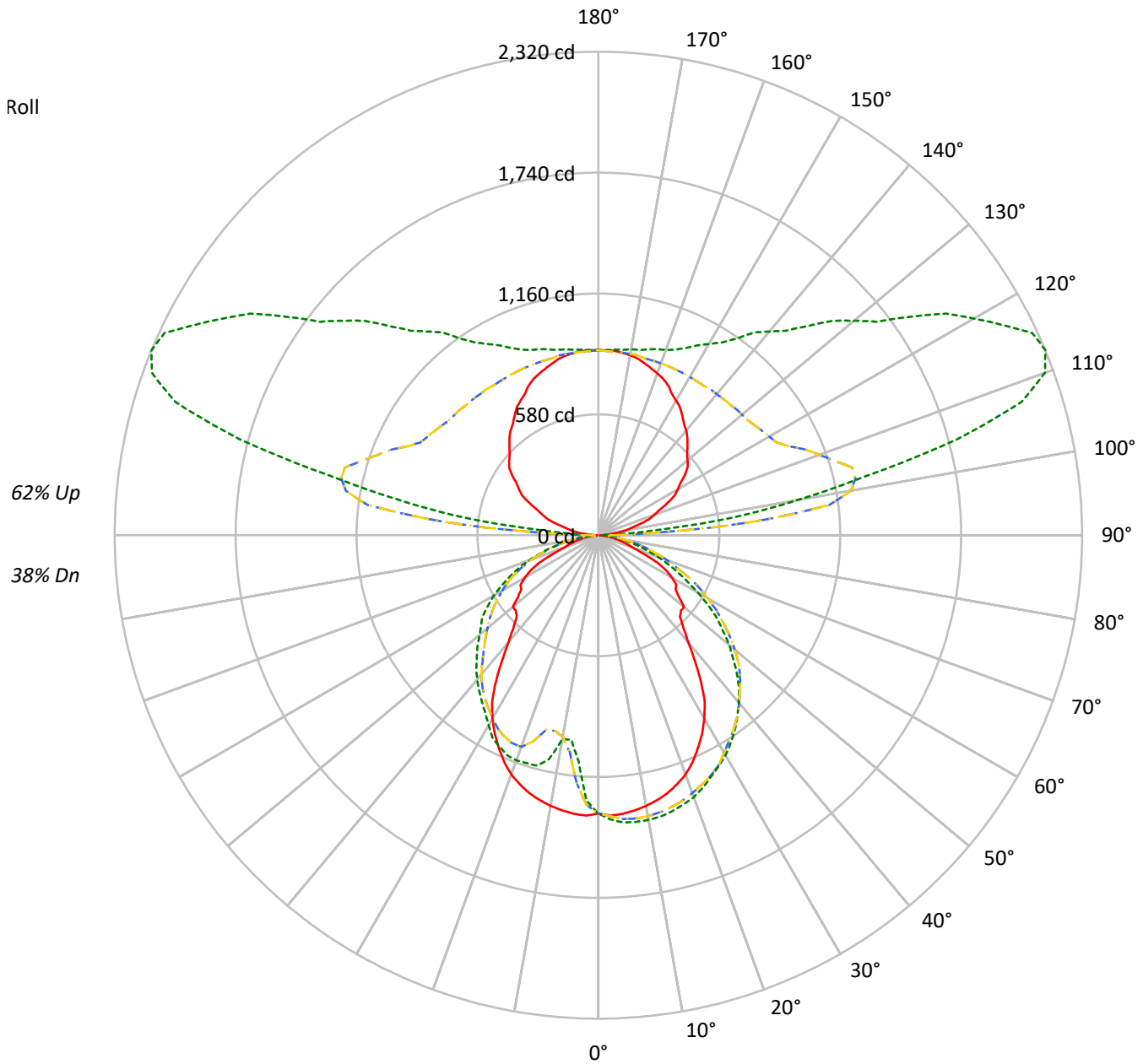
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9226.3 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 72.4
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	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
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	29	26	23	22	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	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	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12391	12391	12391	12391
5°	12470	12509	12470	9836
10°	12374	12321	12374	8809
15°	12224	12054	12224	10066
20°	11954	11738	11954	10086
25°	11418	11277	11418	9873
30°	10729	10894	10729	9404
35°	9550	10409	9550	8888
40°	7944	9839	7944	8499
45°	7084	9172	7084	8050
50°	7510	8376	7510	7601
55°	7045	7518	7045	7341
60°	7236	6385	7236	6723
65°	6529	5277	6529	5901
70°	4491	4207	4491	4946
75°	3896	3109	3896	3723
80°	3075	2056	3075	2238
85°	1673	1088	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10878 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.3
10°-20°	342.2	3.7
20°-30°	529.1	5.7
30°-40°	631.6	6.8
40°-50°	635.3	6.9
50°-60°	552.8	6.0
60°-70°	391.9	4.2
70°-80°	207.3	2.2
80°-90°	55.0	0.6
90°-100°	433.2	4.7
100°-110°	1138.8	12.3
110°-120°	1180.8	12.8
120°-130°	947.2	10.3
130°-140°	743.2	8.1
140°-150°	570.4	6.2
150°-160°	410.8	4.5
160°-170°	251.3	2.7
170°-180°	84.9	0.9
0°-30°	991.8	10.8
0°-40°	1623.4	17.6
0°-60°	2811.5	30.5
0°-90°	3465.8	37.6
90°-120°	2752.8	29.8
90°-150°	5013.5	54.3
90°-180°	5761.0	62.4
0°-180°	9226.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1335	1335	1335	1335	1335	
5°	1342	1383	1342	1088	1342	127
15°	1281	1371	1281	1145	1281	360
25°	1128	1278	1128	1119	1128	518
35°	858	1141	858	974	858	531
45°	553	940	553	825	553	443
55°	451	694	451	677	451	414
65°	313	418	313	468	313	299
75°	119	198	119	238	119	125
85°	20	50	20	43	20	27
90°	6	23	6	23	6	6
95°	57	262	57	262	57	64
105°	205	1783	205	1783	205	217
115°	364	2296	364	2296	364	360
125°	507	1828	507	1828	507	450
135°	604	1419	604	1419	604	467
145°	701	1151	701	1151	701	439
155°	792	991	792	991	792	364
165°	855	923	855	923	855	241
175°	889	895	889	895	889	84
180°	889	889	889	889	889	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1346.7	1346.7	1354.4	1356.8	1356.8	1353.0	1349.3	1353.0	1364.4	1368.2	1367.0
5°	1341.7	1351.8	1365.7	1368.2	1370.7	1369.5	1367.0	1369.5	1382.1	1384.7	1385.9
7.5°	1331.6	1350.5	1368.2	1372.0	1375.8	1372.0	1370.7	1373.3	1385.9	1388.4	1388.4
10°	1319.0	1345.5	1365.7	1368.2	1372.0	1368.2	1368.2	1373.3	1385.9	1388.4	1389.7
12.5°	1301.3	1337.9	1356.8	1359.4	1364.4	1363.1	1361.9	1367.0	1379.6	1382.1	1382.1
15°	1281.0	1324.0	1341.7	1344.2	1353.0	1350.5	1350.5	1355.6	1369.5	1373.3	1372.0
17.5°	1253.3	1306.4	1326.5	1330.4	1336.7	1335.3	1336.7	1341.7	1354.4	1356.8	1358.1
20°	1221.6	1282.4	1306.4	1310.1	1316.4	1316.4	1316.4	1322.7	1335.3	1340.4	1340.4
22.5°	1178.7	1257.0	1282.4	1284.8	1292.4	1292.4	1295.0	1303.8	1315.1	1316.4	1316.4
25°	1128.2	1229.3	1250.7	1258.3	1265.9	1269.6	1273.5	1278.5	1282.4	1281.0	1282.4
27.5°	1075.1	1193.9	1221.6	1226.7	1236.8	1240.7	1245.6	1247.0	1248.2	1251.9	1249.5
30°	1015.8	1144.6	1186.3	1191.3	1207.8	1210.3	1205.3	1207.8	1214.1	1216.7	1219.1
32.5°	948.7	1071.3	1149.6	1161.0	1176.2	1168.6	1167.3	1171.1	1181.3	1181.3	1183.8
35°	857.8	1014.5	1115.6	1125.6	1137.0	1128.2	1133.2	1134.5	1140.8	1144.6	1143.3
37.5°	758.0	965.2	1080.2	1087.8	1096.6	1085.2	1092.8	1096.6	1101.6	1099.1	1099.1
40°	669.6	888.1	1038.5	1043.5	1051.1	1042.3	1049.8	1052.4	1054.9	1052.4	1051.1
42.5°	603.9	803.5	994.2	1000.6	995.5	1001.8	1004.4	1009.5	1005.6	1000.6	1000.6
45°	553.3	780.7	946.2	953.8	946.2	956.4	960.1	960.1	948.7	946.2	945.0
47.5°	536.9	735.3	898.2	898.2	894.4	907.0	913.5	904.6	893.2	889.5	889.5
50°	535.7	684.7	832.6	827.5	845.2	860.4	854.1	845.2	836.4	822.4	822.4
52.5°	486.4	622.9	747.9	766.9	794.7	803.5	793.4	784.6	769.4	763.0	758.0
55°	451.0	558.4	670.9	708.7	737.8	749.2	730.2	721.4	698.6	694.9	692.3
57.5°	443.5	464.9	600.1	648.1	683.5	682.2	670.9	654.4	635.5	631.7	630.4
60°	406.8	336.0	524.3	581.2	617.8	614.0	603.9	588.7	571.0	568.6	566.0
62.5°	368.9	243.8	438.4	502.9	554.6	553.3	544.6	521.8	509.2	502.9	497.8
65°	313.3	204.6	312.0	418.1	492.7	495.2	476.3	459.8	446.0	438.4	437.1
67.5°	238.8	166.8	210.9	348.7	433.3	430.8	406.8	399.2	381.5	377.7	370.1
70°	176.9	111.2	146.6	283.0	375.2	368.9	350.0	341.1	324.7	315.8	310.8
72.5°	146.6	89.7	107.4	219.8	315.8	308.3	291.8	281.7	267.8	260.3	255.2
75°	118.8	94.8	82.1	162.9	256.5	251.4	236.3	226.1	214.8	204.6	206.0
77.5°	87.2	88.4	65.7	120.0	203.4	195.8	186.9	174.3	169.2	159.2	159.2
80°	65.7	69.5	49.2	82.1	146.6	146.6	138.9	130.1	121.2	116.3	116.3
82.5°	44.2	44.2	36.6	51.8	99.8	96.0	90.9	88.4	83.4	80.9	80.9
85°	20.2	25.2	22.8	31.6	54.3	56.9	56.9	54.3	53.1	50.5	51.8
87.5°	6.3	11.4	13.9	17.7	27.8	29.1	30.3	30.3	30.3	31.6	31.6
90°	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.3	30.2	22.7	22.7
92.5°	23.8	64.4	105.0	115.1	161.8	224.0	255.2	223.7	160.6	113.3	108.8
95°	57.3	131.5	205.7	224.2	398.2	630.1	746.1	665.8	505.2	384.7	371.0
97.5°	99.0	164.5	230.0	246.3	536.3	923.1	1116.5	1065.7	964.1	888.0	862.0
100°	131.2	190.6	249.9	264.8	586.6	1015.8	1230.3	1234.1	1241.5	1247.1	1216.1
102.5°	158.6	214.1	269.5	283.3	609.8	1044.9	1262.6	1327.2	1456.6	1553.6	1527.1
105°	205.2	252.1	299.0	310.8	626.8	1048.2	1258.9	1403.9	1693.9	1911.4	1897.2
107.5°	252.9	296.6	340.4	351.3	630.0	1001.6	1187.4	1389.6	1794.1	2097.5	2100.9
110°	285.0	324.5	364.1	374.0	625.3	960.2	1127.7	1353.9	1806.1	2145.2	2160.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.7	354.4	392.0	401.4	625.4	924.2	1073.5	1304.9	1767.7	2114.8	2137.6
115°	364.4	399.1	433.8	442.5	631.2	882.8	1008.5	1231.4	1677.3	2011.6	2043.3
117.5°	411.5	443.1	474.7	482.5	642.9	856.8	963.7	1164.9	1567.3	1869.1	1904.2
120°	438.9	468.6	498.3	505.7	652.4	848.0	945.9	1129.6	1497.3	1773.1	1807.1
122.5°	465.8	495.7	525.7	533.2	666.2	843.6	932.2	1097.7	1428.7	1677.1	1710.6
125°	507.0	534.2	561.6	568.4	684.6	839.7	917.3	1057.8	1339.1	1550.0	1581.0
127.5°	540.3	567.9	595.4	602.3	703.1	837.5	904.7	1025.5	1267.0	1448.1	1474.2
130°	558.2	587.9	617.5	625.0	716.7	838.9	900.0	1007.4	1222.4	1383.6	1407.7
132.5°	576.7	606.4	636.1	643.5	727.6	839.7	895.8	992.0	1184.4	1328.7	1350.3
135°	604.1	631.2	658.1	664.9	739.5	838.9	888.6	969.2	1130.3	1251.2	1269.8
137.5°	632.1	658.9	685.7	692.4	757.4	844.1	887.4	955.5	1091.8	1194.0	1209.2
140°	655.5	680.1	704.8	710.9	768.4	845.0	883.2	942.0	1059.7	1148.0	1162.3
142.5°	673.4	696.1	718.9	724.6	777.5	848.0	883.2	935.0	1038.3	1115.9	1128.1
145°	700.8	720.7	740.5	745.4	789.4	848.0	877.3	919.6	1004.1	1067.5	1076.8
147.5°	728.1	747.6	766.9	771.7	806.9	853.9	877.3	910.6	977.0	1027.0	1034.6
150°	746.1	763.6	781.0	785.4	816.0	856.8	877.3	905.4	961.5	1003.7	1009.9
152.5°	764.6	777.9	791.1	794.4	822.0	858.9	877.3	901.3	949.3	985.3	989.9
155°	792.0	801.9	811.6	814.1	835.1	863.3	877.3	896.4	934.6	963.2	966.3
157.5°	812.3	821.8	831.3	833.7	848.2	867.6	877.3	892.1	921.8	944.0	946.2
160°	826.0	833.4	840.9	842.7	854.3	869.7	877.3	890.0	915.5	934.5	935.7
162.5°	839.7	845.3	850.8	852.3	860.6	871.8	877.3	888.0	909.5	925.6	926.7
165°	854.6	859.6	864.7	865.9	869.8	874.8	877.3	885.0	900.4	911.8	913.1
167.5°	868.3	870.7	873.1	873.7	876.8	881.1	883.2	888.3	898.3	905.9	906.5
170°	877.3	879.7	882.1	882.7	882.9	883.1	883.2	888.3	898.3	905.9	905.9
172.5°	882.1	882.6	883.1	883.2	883.2	883.2	883.2	887.3	895.2	901.1	900.6
175°	888.6	888.6	888.6	888.6	886.8	884.4	883.2	885.7	890.8	894.6	894.6
177.5°	888.6	888.6	888.6	888.6	887.3	885.4	884.5	886.5	890.4	893.4	892.8
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1369.5	1365.7	1369.5	1367.0	1368.2	1364.4	1353.0	1349.3	1353.0	1356.8	1356.8
5°	1385.9	1383.4	1385.9	1385.9	1384.7	1382.1	1369.5	1367.0	1369.5	1370.7	1368.2
7.5°	1391.0	1387.1	1391.0	1388.4	1388.4	1385.9	1373.3	1370.7	1372.0	1375.8	1372.0
10°	1391.0	1387.1	1391.0	1389.7	1388.4	1385.9	1373.3	1368.2	1368.2	1372.0	1368.2
12.5°	1384.7	1382.1	1384.7	1382.1	1382.1	1379.6	1367.0	1361.9	1363.1	1364.4	1359.4
15°	1374.5	1370.7	1374.5	1372.0	1373.3	1369.5	1355.6	1350.5	1350.5	1353.0	1344.2
17.5°	1359.4	1354.4	1359.4	1358.1	1356.8	1354.4	1341.7	1336.7	1335.3	1336.7	1330.4
20°	1341.7	1337.9	1341.7	1340.4	1340.4	1335.3	1322.7	1316.4	1316.4	1316.4	1310.1
22.5°	1313.9	1310.1	1313.9	1316.4	1316.4	1315.1	1303.8	1295.0	1292.4	1292.4	1284.8
25°	1282.4	1278.5	1282.4	1282.4	1281.0	1282.4	1278.5	1273.5	1269.6	1265.9	1258.3
27.5°	1251.9	1249.5	1251.9	1249.5	1251.9	1248.2	1247.0	1245.6	1240.7	1236.8	1226.7
30°	1221.6	1219.1	1221.6	1219.1	1216.7	1214.1	1207.8	1205.3	1210.3	1207.8	1191.3
32.5°	1183.8	1181.3	1183.8	1183.8	1181.3	1181.3	1171.1	1167.3	1168.6	1176.2	1161.0
35°	1144.6	1140.8	1144.6	1143.3	1144.6	1140.8	1134.5	1133.2	1128.2	1137.0	1125.6
37.5°	1099.1	1095.3	1099.1	1099.1	1099.1	1101.6	1096.6	1092.8	1085.2	1096.6	1087.8
40°	1052.4	1047.3	1052.4	1051.1	1052.4	1054.9	1052.4	1049.8	1042.3	1051.1	1043.5
42.5°	999.3	998.1	999.3	1000.6	1000.6	1005.6	1009.5	1004.4	1001.8	995.5	1000.6
45°	942.4	939.9	942.4	945.0	946.2	948.7	960.1	960.1	956.4	946.2	953.8
47.5°	881.8	875.5	881.8	889.5	889.5	893.2	904.6	913.5	907.0	894.4	898.2
50°	817.4	818.7	817.4	822.4	822.4	836.4	845.2	854.1	860.4	845.2	827.5
52.5°	754.2	753.0	754.2	758.0	763.0	769.4	784.6	793.4	803.5	794.7	766.9
55°	691.0	693.6	691.0	692.3	694.9	698.6	721.4	730.2	749.2	737.8	708.7
57.5°	627.9	624.1	627.9	630.4	631.7	635.5	654.4	670.9	682.2	683.5	648.1
60°	554.6	549.5	554.6	566.0	568.6	571.0	588.7	603.9	614.0	617.8	581.2
62.5°	490.1	481.3	490.1	497.8	502.9	509.2	521.8	544.6	553.3	554.6	502.9
65°	422.0	418.1	422.0	437.1	438.4	446.0	459.8	476.3	495.2	492.7	418.1
67.5°	360.1	360.1	360.1	370.1	377.7	381.5	399.2	406.8	430.8	433.3	348.7
70°	303.2	302.0	303.2	310.8	315.8	324.7	341.1	350.0	368.9	375.2	283.0
72.5°	248.9	247.7	248.9	255.2	260.3	267.8	281.7	291.8	308.3	315.8	219.8
75°	200.9	198.3	200.9	206.0	204.6	214.8	226.1	236.3	251.4	256.5	162.9
77.5°	154.1	154.1	154.1	159.2	159.2	169.2	174.3	186.9	195.8	203.4	120.0
80°	114.9	113.7	114.9	116.3	116.3	121.2	130.1	138.9	146.6	146.6	82.1
82.5°	80.9	78.3	80.9	80.9	80.9	83.4	88.4	90.9	96.0	99.8	51.8
85°	50.5	50.5	50.5	51.8	50.5	53.1	54.3	56.9	56.9	54.3	31.6
87.5°	32.9	31.6	32.9	31.6	31.6	30.3	30.3	30.3	29.1	27.8	17.7
90°	22.7	22.7	22.7	22.7	22.7	30.2	40.3	45.3	39.0	26.3	16.7
92.5°	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.2	224.0	161.8	115.1
95°	316.4	261.8	316.4	371.0	384.7	505.2	665.8	746.1	630.1	398.2	224.2
97.5°	758.2	654.2	758.2	862.0	888.0	964.1	1065.7	1116.5	923.1	536.3	246.3
100°	1092.4	968.5	1092.4	1216.1	1247.1	1241.5	1234.1	1230.3	1015.8	586.6	264.8
102.5°	1421.1	1315.1	1421.1	1527.1	1553.6	1456.6	1327.2	1262.6	1044.9	609.8	283.3
105°	1840.2	1783.2	1840.2	1897.2	1911.4	1693.9	1403.9	1258.9	1048.2	626.8	310.8
107.5°	2114.7	2128.5	2114.7	2100.9	2097.5	1794.1	1389.6	1187.4	1001.6	630.0	351.3
110°	2219.4	2278.8	2219.4	2160.0	2145.2	1806.1	1353.9	1127.7	960.2	625.3	374.0



TEST NUMBER: P936036

CATALOG NUMBER: SQ4-FA-150U-100D-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°	2228.8	2319.9	2228.8	2137.6	2114.8	1767.7	1304.9	1073.5	924.2	625.4	401.4
115°	2169.7	2296.1	2169.7	2043.3	2011.6	1677.3	1231.4	1008.5	882.8	631.2	442.5
117.5°	2044.3	2184.5	2044.3	1904.2	1869.1	1567.3	1164.9	963.7	856.8	642.9	482.5
120°	1943.4	2079.6	1943.4	1807.1	1773.1	1497.3	1129.6	945.9	848.0	652.4	505.7
122.5°	1845.1	1979.4	1845.1	1710.6	1677.1	1428.7	1097.7	932.2	843.6	666.2	533.2
125°	1704.7	1828.5	1704.7	1581.0	1550.0	1339.1	1057.8	917.3	839.7	684.6	568.4
127.5°	1578.6	1683.0	1578.6	1474.2	1448.1	1267.0	1025.5	904.7	837.5	703.1	602.3
130°	1504.2	1600.7	1504.2	1407.7	1383.6	1222.4	1007.4	900.0	838.9	716.7	625.0
132.5°	1436.7	1523.1	1436.7	1350.3	1328.7	1184.4	992.0	895.8	839.7	727.6	643.5
135°	1344.3	1418.8	1344.3	1269.8	1251.2	1130.3	969.2	888.6	838.9	739.5	664.9
137.5°	1270.2	1331.1	1270.2	1209.2	1194.0	1091.8	955.5	887.4	844.1	757.4	692.4
140°	1219.2	1276.2	1219.2	1162.3	1148.0	1059.7	942.0	883.2	845.0	768.4	710.9
142.5°	1177.2	1226.1	1177.2	1128.1	1115.9	1038.3	935.0	883.2	848.0	777.5	724.6
145°	1114.0	1151.1	1114.0	1076.8	1067.5	1004.1	919.6	877.3	848.0	789.4	745.4
147.5°	1065.4	1096.2	1065.4	1034.6	1027.0	977.0	910.6	877.3	853.9	806.9	771.7
150°	1034.9	1059.7	1034.9	1009.9	1003.7	961.5	905.4	877.3	856.8	816.0	785.4
152.5°	1008.8	1027.5	1008.8	989.9	985.3	949.3	901.3	877.3	858.9	822.0	794.4
155°	978.8	991.2	978.8	966.3	963.2	934.6	896.4	877.3	863.3	835.1	814.1
157.5°	954.9	963.7	954.9	946.2	944.0	921.8	892.1	877.3	867.6	848.2	833.7
160°	940.8	945.9	940.8	935.7	934.5	915.5	890.0	877.3	869.7	854.3	842.7
162.5°	931.5	936.3	931.5	926.7	925.6	909.5	888.0	877.3	871.8	860.6	852.3
165°	918.1	923.2	918.1	913.1	911.8	900.4	885.0	877.3	874.8	869.8	865.9
167.5°	908.6	910.7	908.6	906.5	905.9	898.3	888.3	883.2	881.1	876.8	873.7
170°	905.9	905.9	905.9	905.9	905.9	898.3	888.3	883.2	883.1	882.9	882.7
172.5°	898.8	897.0	898.8	900.6	901.1	895.2	887.3	883.2	883.2	883.2	883.2
175°	894.6	894.6	894.6	894.6	894.6	890.8	885.7	883.2	884.4	886.8	888.6
177.5°	890.7	888.6	890.7	892.8	893.4	890.4	886.5	884.5	885.4	887.3	888.6
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



TEST NUMBER: P936036

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1354.4	1346.7	1346.7	1334.1	1329.0	1325.3	1319.0	1300.0	1295.0	1289.9	1297.5
5°	1365.7	1351.8	1341.7	1319.0	1300.0	1292.4	1268.4	1223.0	1192.6	1169.9	1157.3
7.5°	1368.2	1350.5	1331.6	1296.2	1250.7	1230.5	1157.3	1073.9	1051.1	1030.9	1018.2
10°	1365.7	1345.5	1319.0	1265.9	1158.5	1123.1	1049.8	995.5	981.6	977.8	981.6
12.5°	1356.8	1337.9	1301.3	1212.8	1062.5	1038.5	995.5	963.9	961.5	967.8	1001.8
15°	1341.7	1324.0	1281.0	1142.1	1009.5	991.8	961.5	950.1	963.9	1008.1	1110.5
17.5°	1326.5	1306.4	1253.3	1072.6	969.0	956.4	934.9	957.6	1035.9	1095.3	1129.5
20°	1306.4	1282.4	1221.6	1022.1	939.9	928.6	918.4	1020.8	1080.2	1101.6	1120.6
22.5°	1282.4	1257.0	1178.7	986.7	909.6	900.7	907.0	1056.2	1080.2	1095.3	1111.8
25°	1250.7	1229.3	1128.2	958.9	885.6	875.5	899.5	1052.4	1066.3	1070.1	1102.9
27.5°	1221.6	1193.9	1075.1	933.6	856.6	852.7	905.8	1035.9	1046.1	1049.8	1085.2
30°	1186.3	1144.6	1015.8	907.0	826.2	825.0	907.0	1015.8	1013.2	1023.3	1058.7
32.5°	1149.6	1071.3	948.7	874.2	797.2	795.9	898.2	985.5	982.9	996.8	1023.3
35°	1115.6	1014.5	857.8	836.4	760.6	761.8	876.7	950.1	951.3	963.9	980.4
37.5°	1080.2	965.2	758.0	794.7	725.2	725.2	847.7	917.2	914.7	918.4	941.2
40°	1038.5	888.1	669.6	740.3	692.3	688.6	812.4	881.8	873.0	871.8	903.3
42.5°	994.2	803.5	603.9	668.3	654.4	649.4	769.4	838.9	822.4	826.2	866.7
45°	946.2	780.7	553.3	564.7	615.2	611.5	722.6	789.6	778.2	788.4	830.1
47.5°	898.2	735.3	536.9	468.7	573.5	572.3	670.9	741.6	735.3	745.4	789.6
50°	832.6	684.7	535.7	401.8	526.9	531.8	608.9	694.9	694.9	703.7	750.4
52.5°	747.9	622.9	486.4	363.8	472.5	487.7	554.6	654.4	656.9	665.8	707.5
55°	670.9	558.4	451.0	334.8	408.1	440.9	501.5	612.7	617.8	626.6	664.6
57.5°	600.1	464.9	443.5	300.7	348.7	380.3	454.8	572.3	574.9	582.4	619.0
60°	524.3	336.0	406.8	264.0	296.9	320.9	411.8	524.3	533.2	538.1	569.8
62.5°	438.4	243.8	368.9	238.8	271.7	276.7	376.5	478.8	490.1	494.0	512.9
65°	312.0	204.6	313.3	217.3	245.1	246.3	338.6	432.1	442.1	448.5	462.4
67.5°	210.9	166.8	238.8	197.1	224.9	226.1	302.0	377.7	391.7	396.7	405.5
70°	146.6	111.2	176.9	175.7	202.1	204.6	262.8	328.5	341.1	344.9	350.0
72.5°	107.4	89.7	146.6	158.0	178.1	180.6	222.3	272.9	285.5	289.3	291.8
75°	82.1	94.8	118.8	137.7	151.6	152.9	182.0	222.3	231.2	233.7	234.9
77.5°	65.7	88.4	87.2	111.2	123.8	121.2	142.8	171.8	179.4	179.4	179.4
80°	49.2	69.5	65.7	79.6	90.9	88.4	102.3	122.6	125.1	127.6	126.3
82.5°	36.6	44.2	44.2	50.5	60.6	58.1	68.2	79.6	79.6	79.6	82.1
85°	22.8	25.2	20.2	26.5	34.1	32.9	37.9	42.9	44.2	44.2	41.7
87.5°	13.9	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	15.5	10.7	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.3	30.2
92.5°	105.0	64.4	23.8	64.4	105.0	115.1	161.8	224.0	255.2	223.7	160.6
95°	205.7	131.5	57.3	131.5	205.7	224.2	398.2	630.1	746.1	665.8	505.2
97.5°	230.0	164.5	99.0	164.5	230.0	246.3	536.3	923.1	1116.5	1065.7	964.1
100°	249.9	190.6	131.2	190.6	249.9	264.8	586.6	1015.8	1230.3	1234.1	1241.5
102.5°	269.5	214.1	158.6	214.1	269.5	283.3	609.8	1044.9	1262.6	1327.2	1456.6
105°	299.0	252.1	205.2	252.1	299.0	310.8	626.8	1048.2	1258.9	1403.9	1693.9
107.5°	340.4	296.6	252.9	296.6	340.4	351.3	630.0	1001.6	1187.4	1389.6	1794.1
110°	364.1	324.5	285.0	324.5	364.1	374.0	625.3	960.2	1127.7	1353.9	1806.1



TEST NUMBER: P936036

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	392.0	354.4	316.7	354.4	392.0	401.4	625.4	924.2	1073.5	1304.9	1767.7
115°	433.8	399.1	364.4	399.1	433.8	442.5	631.2	882.8	1008.5	1231.4	1677.3
117.5°	474.7	443.1	411.5	443.1	474.7	482.5	642.9	856.8	963.7	1164.9	1567.3
120°	498.3	468.6	438.9	468.6	498.3	505.7	652.4	848.0	945.9	1129.6	1497.3
122.5°	525.7	495.7	465.8	495.7	525.7	533.2	666.2	843.6	932.2	1097.7	1428.7
125°	561.6	534.2	507.0	534.2	561.6	568.4	684.6	839.7	917.3	1057.8	1339.1
127.5°	595.4	567.9	540.3	567.9	595.4	602.3	703.1	837.5	904.7	1025.5	1267.0
130°	617.5	587.9	558.2	587.9	617.5	625.0	716.7	838.9	900.0	1007.4	1222.4
132.5°	636.1	606.4	576.7	606.4	636.1	643.5	727.6	839.7	895.8	992.0	1184.4
135°	658.1	631.2	604.1	631.2	658.1	664.9	739.5	838.9	888.6	969.2	1130.3
137.5°	685.7	658.9	632.1	658.9	685.7	692.4	757.4	844.1	887.4	955.5	1091.8
140°	704.8	680.1	655.5	680.1	704.8	710.9	768.4	845.0	883.2	942.0	1059.7
142.5°	718.9	696.1	673.4	696.1	718.9	724.6	777.5	848.0	883.2	935.0	1038.3
145°	740.5	720.7	700.8	720.7	740.5	745.4	789.4	848.0	877.3	919.6	1004.1
147.5°	766.9	747.6	728.1	747.6	766.9	771.7	806.9	853.9	877.3	910.6	977.0
150°	781.0	763.6	746.1	763.6	781.0	785.4	816.0	856.8	877.3	905.4	961.5
152.5°	791.1	777.9	764.6	777.9	791.1	794.4	822.0	858.9	877.3	901.3	949.3
155°	811.6	801.9	792.0	801.9	811.6	814.1	835.1	863.3	877.3	896.4	934.6
157.5°	831.3	821.8	812.3	821.8	831.3	833.7	848.2	867.6	877.3	892.1	921.8
160°	840.9	833.4	826.0	833.4	840.9	842.7	854.3	869.7	877.3	890.0	915.5
162.5°	850.8	845.3	839.7	845.3	850.8	852.3	860.6	871.8	877.3	888.0	909.5
165°	864.7	859.6	854.6	859.6	864.7	865.9	869.8	874.8	877.3	885.0	900.4
167.5°	873.1	870.7	868.3	870.7	873.1	873.7	876.8	881.1	883.2	888.3	898.3
170°	882.1	879.7	877.3	879.7	882.1	882.7	882.9	883.1	883.2	888.3	898.3
172.5°	883.1	882.6	882.1	882.6	883.1	883.2	883.2	883.2	883.2	887.3	895.2
175°	888.6	888.6	888.6	888.6	888.6	888.6	886.8	884.4	883.2	885.7	890.8
177.5°	888.6	888.6	888.6	888.6	888.6	888.6	887.3	885.4	884.5	886.5	890.4
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



TEST NUMBER: P936036

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1288.7	1284.8	1289.9	1275.9	1289.9	1284.8	1288.7	1297.5	1289.9	1295.0	1300.0
5°	1130.7	1124.4	1104.2	1087.8	1104.2	1124.4	1130.7	1157.3	1169.9	1192.6	1223.0
7.5°	1010.7	1005.6	1000.6	990.4	1000.6	1005.6	1010.7	1018.2	1030.9	1051.1	1073.9
10°	984.1	985.5	993.0	991.8	993.0	985.5	984.1	981.6	977.8	981.6	995.5
12.5°	1052.4	1063.8	1105.5	1102.9	1105.5	1063.8	1052.4	1001.8	967.8	961.5	963.9
15°	1130.7	1134.5	1143.3	1144.6	1143.3	1134.5	1130.7	1110.5	1008.1	963.9	950.1
17.5°	1138.3	1139.6	1145.9	1145.9	1145.9	1139.6	1138.3	1129.5	1095.3	1035.9	957.6
20°	1131.9	1134.5	1147.1	1149.6	1147.1	1134.5	1131.9	1120.6	1101.6	1080.2	1020.8
22.5°	1129.5	1134.5	1144.6	1143.3	1144.6	1134.5	1129.5	1111.8	1095.3	1080.2	1056.2
25°	1116.8	1116.8	1118.1	1119.3	1118.1	1116.8	1116.8	1102.9	1070.1	1066.3	1052.4
27.5°	1090.3	1092.8	1100.4	1099.1	1100.4	1092.8	1090.3	1085.2	1049.8	1046.1	1035.9
30°	1066.3	1063.8	1057.5	1052.4	1057.5	1063.8	1066.3	1058.7	1023.3	1013.2	1015.8
32.5°	1025.8	1019.5	1013.2	1009.5	1013.2	1019.5	1025.8	1023.3	996.8	982.9	985.5
35°	977.8	979.1	977.8	974.1	977.8	979.1	977.8	980.4	963.9	951.3	950.1
37.5°	943.8	946.2	945.0	939.9	945.0	946.2	943.8	941.2	918.4	914.7	917.2
40°	908.4	909.6	908.4	904.6	908.4	909.6	908.4	903.3	871.8	873.0	881.8
42.5°	874.2	873.0	869.2	866.7	869.2	873.0	874.2	866.7	826.2	822.4	838.9
45°	835.0	836.4	828.7	825.0	828.7	836.4	835.0	830.1	788.4	778.2	789.6
47.5°	795.9	795.9	789.6	785.8	789.6	795.9	795.9	789.6	745.4	735.3	741.6
50°	754.2	753.0	744.1	742.9	744.1	753.0	754.2	750.4	703.7	694.9	694.9
52.5°	706.2	706.2	707.5	710.0	707.5	706.2	706.2	707.5	665.8	656.9	654.4
55°	664.6	665.8	674.6	677.2	674.6	665.8	664.6	664.6	626.6	617.8	612.7
57.5°	621.5	621.5	627.9	627.9	627.9	621.5	621.5	619.0	582.4	574.9	572.3
60°	572.3	574.9	579.8	578.6	579.8	574.9	572.3	569.8	538.1	533.2	524.3
62.5°	520.5	523.0	524.3	521.8	524.3	523.0	520.5	512.9	494.0	490.1	478.8
65°	466.1	468.7	470.0	467.5	470.0	468.7	466.1	462.4	448.5	442.1	432.1
67.5°	410.6	409.3	408.1	413.1	408.1	409.3	410.6	405.5	396.7	391.7	377.7
70°	353.7	353.7	352.5	355.0	352.5	353.7	353.7	350.0	344.9	341.1	328.5
72.5°	293.1	291.8	296.9	293.1	296.9	291.8	293.1	291.8	289.3	285.5	272.9
75°	233.7	236.3	233.7	237.5	233.7	236.3	233.7	234.9	233.7	231.2	222.3
77.5°	178.1	180.6	178.1	178.1	178.1	180.6	178.1	179.4	179.4	179.4	171.8
80°	126.3	125.1	125.1	123.8	125.1	125.1	126.3	126.3	127.6	125.1	122.6
82.5°	80.9	79.6	79.6	82.1	79.6	79.6	80.9	82.1	79.6	79.6	79.6
85°	44.2	45.5	42.9	42.9	42.9	45.5	44.2	41.7	44.2	44.2	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	30.2	40.3	45.3	39.0
92.5°	113.3	108.8	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.2	224.0
95°	384.7	371.0	316.4	261.8	316.4	371.0	384.7	505.2	665.8	746.1	630.1
97.5°	888.0	862.0	758.2	654.2	758.2	862.0	888.0	964.1	1065.7	1116.5	923.1
100°	1247.1	1216.1	1092.4	968.5	1092.4	1216.1	1247.1	1241.5	1234.1	1230.3	1015.8
102.5°	1553.6	1527.1	1421.1	1315.1	1421.1	1527.1	1553.6	1456.6	1327.2	1262.6	1044.9
105°	1911.4	1897.2	1840.2	1783.2	1840.2	1897.2	1911.4	1693.9	1403.9	1258.9	1048.2
107.5°	2097.5	2100.9	2114.7	2128.5	2114.7	2100.9	2097.5	1794.1	1389.6	1187.4	1001.6
110°	2145.2	2160.0	2219.4	2278.8	2219.4	2160.0	2145.2	1806.1	1353.9	1127.7	960.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2114.8	2137.6	2228.8	2319.9	2228.8	2137.6	2114.8	1767.7	1304.9	1073.5	924.2
115°	2011.6	2043.3	2169.7	2296.1	2169.7	2043.3	2011.6	1677.3	1231.4	1008.5	882.8
117.5°	1869.1	1904.2	2044.3	2184.5	2044.3	1904.2	1869.1	1567.3	1164.9	963.7	856.8
120°	1773.1	1807.1	1943.4	2079.6	1943.4	1807.1	1773.1	1497.3	1129.6	945.9	848.0
122.5°	1677.1	1710.6	1845.1	1979.4	1845.1	1710.6	1677.1	1428.7	1097.7	932.2	843.6
125°	1550.0	1581.0	1704.7	1828.5	1704.7	1581.0	1550.0	1339.1	1057.8	917.3	839.7
127.5°	1448.1	1474.2	1578.6	1683.0	1578.6	1474.2	1448.1	1267.0	1025.5	904.7	837.5
130°	1383.6	1407.7	1504.2	1600.7	1504.2	1407.7	1383.6	1222.4	1007.4	900.0	838.9
132.5°	1328.7	1350.3	1436.7	1523.1	1436.7	1350.3	1328.7	1184.4	992.0	895.8	839.7
135°	1251.2	1269.8	1344.3	1418.8	1344.3	1269.8	1251.2	1130.3	969.2	888.6	838.9
137.5°	1194.0	1209.2	1270.2	1331.1	1270.2	1209.2	1194.0	1091.8	955.5	887.4	844.1
140°	1148.0	1162.3	1219.2	1276.2	1219.2	1162.3	1148.0	1059.7	942.0	883.2	845.0
142.5°	1115.9	1128.1	1177.2	1226.1	1177.2	1128.1	1115.9	1038.3	935.0	883.2	848.0
145°	1067.5	1076.8	1114.0	1151.1	1114.0	1076.8	1067.5	1004.1	919.6	877.3	848.0
147.5°	1027.0	1034.6	1065.4	1096.2	1065.4	1034.6	1027.0	977.0	910.6	877.3	853.9
150°	1003.7	1009.9	1034.9	1059.7	1034.9	1009.9	1003.7	961.5	905.4	877.3	856.8
152.5°	985.3	989.9	1008.8	1027.5	1008.8	989.9	985.3	949.3	901.3	877.3	858.9
155°	963.2	966.3	978.8	991.2	978.8	966.3	963.2	934.6	896.4	877.3	863.3
157.5°	944.0	946.2	954.9	963.7	954.9	946.2	944.0	921.8	892.1	877.3	867.6
160°	934.5	935.7	940.8	945.9	940.8	935.7	934.5	915.5	890.0	877.3	869.7
162.5°	925.6	926.7	931.5	936.3	931.5	926.7	925.6	909.5	888.0	877.3	871.8
165°	911.8	913.1	918.1	923.2	918.1	913.1	911.8	900.4	885.0	877.3	874.8
167.5°	905.9	906.5	908.6	910.7	908.6	906.5	905.9	898.3	888.3	883.2	881.1
170°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	898.3	888.3	883.2	883.1
172.5°	901.1	900.6	898.8	897.0	898.8	900.6	901.1	895.2	887.3	883.2	883.2
175°	894.6	894.6	894.6	894.6	894.6	894.6	894.6	890.8	885.7	883.2	884.4
177.5°	893.4	892.8	890.7	888.6	890.7	892.8	893.4	890.4	886.5	884.5	885.4
180°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1319.0	1325.3	1329.0	1334.1	1346.7
5°	1268.4	1292.4	1300.0	1319.0	1341.7
7.5°	1157.3	1230.5	1250.7	1296.2	1331.6
10°	1049.8	1123.1	1158.5	1265.9	1319.0
12.5°	995.5	1038.5	1062.5	1212.8	1301.3
15°	961.5	991.8	1009.5	1142.1	1281.0
17.5°	934.9	956.4	969.0	1072.6	1253.3
20°	918.4	928.6	939.9	1022.1	1221.6
22.5°	907.0	900.7	909.6	986.7	1178.7
25°	899.5	875.5	885.6	958.9	1128.2
27.5°	905.8	852.7	856.6	933.6	1075.1
30°	907.0	825.0	826.2	907.0	1015.8
32.5°	898.2	795.9	797.2	874.2	948.7
35°	876.7	761.8	760.6	836.4	857.8
37.5°	847.7	725.2	725.2	794.7	758.0
40°	812.4	688.6	692.3	740.3	669.6
42.5°	769.4	649.4	654.4	668.3	603.9
45°	722.6	611.5	615.2	564.7	553.3
47.5°	670.9	572.3	573.5	468.7	536.9
50°	608.9	531.8	526.9	401.8	535.7
52.5°	554.6	487.7	472.5	363.8	486.4
55°	501.5	440.9	408.1	334.8	451.0
57.5°	454.8	380.3	348.7	300.7	443.5
60°	411.8	320.9	296.9	264.0	406.8
62.5°	376.5	276.7	271.7	238.8	368.9
65°	338.6	246.3	245.1	217.3	313.3
67.5°	302.0	226.1	224.9	197.1	238.8
70°	262.8	204.6	202.1	175.7	176.9
72.5°	222.3	180.6	178.1	158.0	146.6
75°	182.0	152.9	151.6	137.7	118.8
77.5°	142.8	121.2	123.8	111.2	87.2
80°	102.3	88.4	90.9	79.6	65.7
82.5°	68.2	58.1	60.6	50.5	44.2
85°	37.9	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	26.3	16.7	15.5	10.7	5.9
92.5°	161.8	115.1	105.0	64.4	23.8
95°	398.2	224.2	205.7	131.5	57.3
97.5°	536.3	246.3	230.0	164.5	99.0
100°	586.6	264.8	249.9	190.6	131.2
102.5°	609.8	283.3	269.5	214.1	158.6
105°	626.8	310.8	299.0	252.1	205.2
107.5°	630.0	351.3	340.4	296.6	252.9
110°	625.3	374.0	364.1	324.5	285.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	625.4	401.4	392.0	354.4	316.7
115°	631.2	442.5	433.8	399.1	364.4
117.5°	642.9	482.5	474.7	443.1	411.5
120°	652.4	505.7	498.3	468.6	438.9
122.5°	666.2	533.2	525.7	495.7	465.8
125°	684.6	568.4	561.6	534.2	507.0
127.5°	703.1	602.3	595.4	567.9	540.3
130°	716.7	625.0	617.5	587.9	558.2
132.5°	727.6	643.5	636.1	606.4	576.7
135°	739.5	664.9	658.1	631.2	604.1
137.5°	757.4	692.4	685.7	658.9	632.1
140°	768.4	710.9	704.8	680.1	655.5
142.5°	777.5	724.6	718.9	696.1	673.4
145°	789.4	745.4	740.5	720.7	700.8
147.5°	806.9	771.7	766.9	747.6	728.1
150°	816.0	785.4	781.0	763.6	746.1
152.5°	822.0	794.4	791.1	777.9	764.6
155°	835.1	814.1	811.6	801.9	792.0
157.5°	848.2	833.7	831.3	821.8	812.3
160°	854.3	842.7	840.9	833.4	826.0
162.5°	860.6	852.3	850.8	845.3	839.7
165°	869.8	865.9	864.7	859.6	854.6
167.5°	876.8	873.7	873.1	870.7	868.3
170°	882.9	882.7	882.1	879.7	877.3
172.5°	883.2	883.2	883.1	882.6	882.1
175°	886.8	888.6	888.6	888.6	888.6
177.5°	887.3	888.6	888.6	888.6	888.6
180°	888.6	888.6	888.6	888.6	888.6



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.27	13.03	13.32	14.09	15.52	15.06	15.82	16.12	16.88	18.32
	3H	12.74	13.42	13.80	14.49	15.94	16.39	17.07	17.46	18.14	19.60
	4H	12.92	13.57	14.00	14.64	16.10	16.82	17.47	17.90	18.54	20.00
	6H	13.04	13.63	14.12	14.70	16.18	17.10	17.69	18.18	18.76	20.24
	8H	13.03	13.60	14.13	14.69	16.16	17.16	17.73	18.25	18.82	20.29
	12H	13.00	13.54	14.10	14.62	16.12	17.19	17.73	18.29	18.81	20.31
4H	2H	13.28	13.92	14.36	14.99	16.46	15.46	16.11	16.55	17.18	18.64
	3H	14.30	14.83	15.39	15.93	17.41	16.95	17.49	18.04	18.58	20.06
	4H	14.57	15.06	15.66	16.15	17.65	17.47	17.96	18.56	19.05	20.54
	6H	14.69	15.11	15.79	16.22	17.71	17.82	18.24	18.92	19.35	20.84
	8H	14.69	15.09	15.80	16.19	17.70	17.92	18.31	19.02	19.41	20.92
	12H	14.65	15.01	15.78	16.13	17.64	17.96	18.32	19.09	19.44	20.95
8H	4H	15.01	15.40	16.11	16.51	18.01	17.58	17.98	18.69	19.08	20.59
	6H	15.26	15.59	16.39	16.74	18.24	18.01	18.33	19.13	19.48	20.98
	8H	15.31	15.59	16.44	16.72	18.24	18.15	18.44	19.29	19.56	21.09
	12H	15.29	15.54	16.42	16.66	18.22	18.24	18.49	19.38	19.61	21.17
12H	4H	15.01	15.37	16.13	16.48	17.99	17.54	17.90	18.66	19.02	20.53
	6H	15.32	15.61	16.46	16.74	18.26	18.00	18.29	19.14	19.42	20.94
	8H	15.38	15.64	16.52	16.76	18.32	18.15	18.41	19.29	19.53	21.09