

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: P936033

Luminaire Tested: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936033
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-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

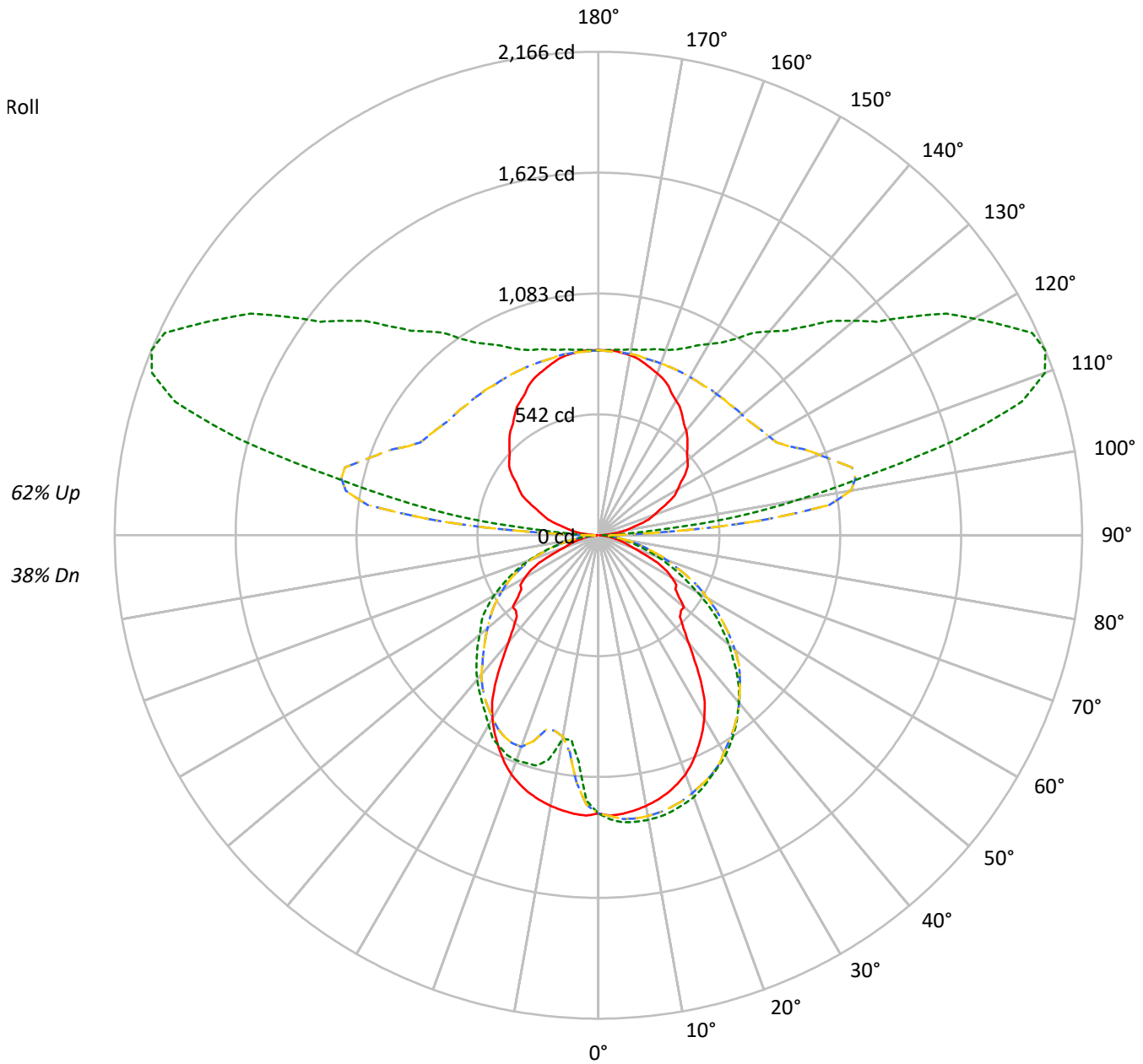
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8612.9 lumens
Efficiency: N/A
Efficacy: 119.0 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°	11567	11567	11567	11567
5°	11641	11677	11641	9181
10°	11551	11502	11551	8223
15°	11411	11253	11411	9396
20°	11160	10958	11160	9416
25°	10659	10527	10659	9216
30°	10015	10170	10015	8778
35°	8915	9718	8915	8297
40°	7416	9185	7416	7933
45°	6614	8562	6614	7516
50°	7009	7820	7009	7095
55°	6576	7019	6576	6853
60°	6754	5961	6754	6275
65°	6095	4927	6095	5508
70°	4191	3927	4191	4617
75°	3637	2902	3637	3476
80°	2869	1918	2869	2090
85°	1557	1015	1557	864

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10155 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	1.3
10°-20°	319.5	3.7
20°-30°	493.9	5.7
30°-40°	589.6	6.8
40°-50°	593.0	6.9
50°-60°	516.0	6.0
60°-70°	365.9	4.2
70°-80°	193.6	2.2
80°-90°	51.4	0.6
90°-100°	404.4	4.7
100°-110°	1063.1	12.3
110°-120°	1102.3	12.8
120°-130°	884.2	10.3
130°-140°	693.8	8.1
140°-150°	532.5	6.2
150°-160°	383.5	4.5
160°-170°	234.6	2.7
170°-180°	79.3	0.9
0°-30°	925.9	10.8
0°-40°	1515.5	17.6
0°-60°	2624.5	30.5
0°-90°	3235.3	37.6
90°-120°	2569.7	29.8
90°-150°	4680.2	54.3
90°-180°	5378.0	62.4
0°-180°	8612.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1246	1246	1246	1246	1246	
5°	1252	1291	1252	1015	1252	119
15°	1196	1280	1196	1068	1196	336
25°	1053	1194	1053	1045	1053	484
35°	801	1065	801	909	801	495
45°	517	877	517	770	517	414
55°	421	648	421	632	421	387
65°	292	390	292	436	292	280
75°	111	185	111	222	111	117
85°	19	47	19	40	19	25
90°	6	21	6	21	6	5
95°	54	244	54	244	54	59
105°	192	1665	192	1665	192	203
115°	340	2143	340	2143	340	336
125°	473	1707	473	1707	473	420
135°	564	1324	564	1324	564	436
145°	654	1074	654	1074	654	410
155°	739	925	739	925	739	340
165°	798	862	798	862	798	225
175°	830	835	830	835	830	79
180°	830	830	830	830	830	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1257.2	1257.2	1264.3	1266.6	1266.6	1263.1	1259.6	1263.1	1273.7	1277.2	1276.1
5°	1252.5	1261.9	1274.9	1277.2	1279.6	1278.4	1276.1	1278.4	1290.2	1292.6	1293.8
7.5°	1243.1	1260.7	1277.2	1280.8	1284.3	1280.8	1279.6	1282.0	1293.8	1296.1	1296.1
10°	1231.3	1256.0	1274.9	1277.2	1280.8	1277.2	1277.2	1282.0	1293.8	1296.1	1297.3
12.5°	1214.8	1249.0	1266.6	1269.0	1273.7	1272.5	1271.4	1276.1	1287.9	1290.2	1290.2
15°	1195.8	1236.0	1252.5	1254.8	1263.1	1260.7	1260.7	1265.5	1278.4	1282.0	1280.8
17.5°	1170.0	1219.5	1238.3	1241.9	1247.8	1246.5	1247.8	1252.5	1264.3	1266.6	1267.8
20°	1140.4	1197.1	1219.5	1223.0	1228.9	1228.9	1228.9	1234.8	1246.5	1251.3	1251.3
22.5°	1100.3	1173.4	1197.1	1199.4	1206.5	1206.5	1208.9	1217.1	1227.7	1228.9	1228.9
25°	1053.2	1147.6	1167.5	1174.7	1181.7	1185.2	1188.8	1193.5	1197.1	1195.8	1197.1
27.5°	1003.7	1114.5	1140.4	1145.1	1154.6	1158.2	1162.8	1164.1	1165.2	1168.7	1166.4
30°	948.2	1068.5	1107.4	1112.1	1127.5	1129.8	1125.1	1127.5	1133.4	1135.8	1138.1
32.5°	885.7	1000.1	1073.2	1083.8	1098.0	1090.9	1089.7	1093.3	1102.7	1102.7	1105.1
35°	800.8	947.1	1041.4	1050.8	1061.4	1053.2	1057.8	1059.1	1065.0	1068.5	1067.3
37.5°	707.6	901.0	1008.4	1015.4	1023.7	1013.0	1020.2	1023.7	1028.4	1026.1	1026.1
40°	625.1	829.1	969.5	974.1	981.3	973.0	980.0	982.4	984.7	982.4	981.3
42.5°	563.8	750.1	928.1	934.0	929.3	935.2	937.6	942.3	938.8	934.0	934.0
45°	516.6	728.8	883.3	890.4	883.3	892.8	896.3	896.3	885.7	883.3	882.2
47.5°	501.2	686.4	838.5	838.5	835.0	846.7	852.7	844.4	833.8	830.3	830.3
50°	500.0	639.2	777.2	772.5	789.0	803.2	797.3	789.0	780.8	767.7	767.7
52.5°	454.1	581.5	698.2	715.9	741.9	750.1	740.6	732.4	718.2	712.3	707.6
55°	421.0	521.3	626.3	661.6	688.7	699.4	681.7	673.4	652.1	648.7	646.3
57.5°	414.0	434.0	560.2	605.0	638.0	636.9	626.3	610.9	593.2	589.7	588.5
60°	379.7	313.7	489.4	542.5	576.7	573.2	563.8	549.6	533.1	530.8	528.3
62.5°	344.4	227.6	409.3	469.4	517.7	516.6	508.3	487.1	475.3	469.4	464.7
65°	292.5	191.0	291.3	390.3	460.0	462.3	444.6	429.3	416.3	409.3	408.0
67.5°	222.9	155.7	196.9	325.5	404.5	402.1	379.7	372.7	356.2	352.6	345.5
70°	165.1	103.8	136.8	264.2	350.3	344.4	326.7	318.4	303.1	294.8	290.1
72.5°	136.8	83.7	100.2	205.2	294.8	287.8	272.4	263.0	250.0	243.0	238.2
75°	110.9	88.5	76.7	152.1	239.4	234.7	220.6	211.1	200.5	191.0	192.3
77.5°	81.4	82.6	61.3	112.0	189.9	182.8	174.5	162.7	158.0	148.6	148.6
80°	61.3	64.9	46.0	76.7	136.8	136.8	129.7	121.5	113.2	108.5	108.5
82.5°	41.2	41.2	34.2	48.4	93.2	89.6	84.9	82.6	77.8	75.5	75.5
85°	18.8	23.6	21.2	29.5	50.7	53.1	53.1	50.7	49.5	47.1	48.4
87.5°	5.9	10.6	12.9	16.5	26.0	27.1	28.3	28.3	28.3	29.5	29.5
90°	5.5	10.0	14.5	15.6	24.5	36.4	42.3	37.6	28.2	21.2	21.2
92.5°	22.2	60.1	98.0	107.5	151.0	209.1	238.2	208.8	150.0	105.8	101.6
95°	53.5	122.7	192.0	209.3	371.7	588.2	696.5	621.5	471.6	359.1	346.3
97.5°	92.4	153.5	214.7	229.9	500.7	861.7	1042.2	994.8	900.0	829.0	804.7
100°	122.5	177.9	233.3	247.2	547.6	948.2	1148.5	1152.0	1159.0	1164.2	1135.2
102.5°	148.1	199.9	251.5	264.5	569.2	975.5	1178.6	1239.0	1359.7	1450.3	1425.6
105°	191.6	235.4	279.1	290.1	585.1	978.5	1175.2	1310.5	1581.3	1784.3	1771.0
107.5°	236.1	276.9	317.8	327.9	588.1	935.0	1108.5	1297.2	1674.8	1958.1	1961.3
110°	266.1	303.0	339.9	349.1	583.7	896.4	1052.8	1263.9	1686.0	2002.6	2016.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	295.6	330.8	366.0	374.7	583.9	862.7	1002.1	1218.2	1650.2	1974.2	1995.5
115°	340.2	372.6	405.0	413.1	589.2	824.1	941.4	1149.5	1565.7	1877.9	1907.4
117.5°	384.2	413.6	443.1	450.4	600.2	799.9	899.7	1087.5	1463.1	1744.8	1777.6
120°	409.7	437.5	465.1	472.1	609.0	791.7	883.0	1054.5	1397.8	1655.2	1687.0
122.5°	434.8	462.7	490.8	497.7	621.9	787.5	870.2	1024.7	1333.8	1565.6	1596.9
125°	473.3	498.7	524.2	530.6	639.1	783.9	856.3	987.5	1250.0	1446.9	1475.9
127.5°	504.4	530.1	555.8	562.3	656.3	781.8	844.6	957.3	1182.7	1351.8	1376.2
130°	521.1	548.8	576.5	583.4	669.0	783.1	840.1	940.5	1141.1	1291.6	1314.1
132.5°	538.3	566.1	593.8	600.7	679.2	783.9	836.2	926.0	1105.7	1240.4	1260.6
135°	564.0	589.2	614.4	620.7	690.4	783.1	829.5	904.8	1055.2	1168.0	1185.4
137.5°	590.1	615.1	640.1	646.3	707.0	788.0	828.4	892.0	1019.2	1114.6	1128.8
140°	611.9	634.9	658.0	663.7	717.3	788.8	824.5	879.4	989.3	1071.7	1085.0
142.5°	628.6	649.8	671.1	676.4	725.8	791.6	824.5	872.8	969.3	1041.7	1053.1
145°	654.2	672.8	691.2	695.9	736.9	791.7	819.0	858.4	937.3	996.5	1005.2
147.5°	679.7	697.9	715.9	720.4	753.3	797.1	819.0	850.0	912.1	958.7	965.8
150°	696.5	712.8	729.1	733.2	761.8	799.9	819.0	845.2	897.6	937.0	942.8
152.5°	713.7	726.1	738.5	741.6	767.4	801.8	819.0	841.4	886.2	919.8	924.1
155°	739.4	748.6	757.7	760.0	779.6	805.9	819.0	836.8	872.4	899.1	902.1
157.5°	758.3	767.2	776.0	778.3	791.8	810.0	819.0	832.8	860.5	881.3	883.3
160°	771.0	778.0	785.0	786.7	797.5	811.8	819.0	830.9	854.6	872.4	873.5
162.5°	783.9	789.1	794.3	795.6	803.4	813.8	819.0	829.0	849.1	864.1	865.1
165°	797.8	802.5	807.2	808.4	811.9	816.7	819.0	826.1	840.5	851.2	852.4
167.5°	810.6	812.8	815.1	815.6	818.5	822.5	824.5	829.2	838.6	845.7	846.2
170°	819.0	821.2	823.4	824.0	824.2	824.4	824.5	829.2	838.6	845.7	845.7
172.5°	823.4	823.9	824.4	824.5	824.5	824.5	824.5	828.3	835.7	841.2	840.8
175°	829.5	829.5	829.5	829.5	827.8	825.6	824.5	826.8	831.6	835.1	835.1
177.5°	829.5	829.5	829.5	829.5	828.3	826.6	825.7	827.5	831.2	834.0	833.4
180°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1278.4	1274.9	1278.4	1276.1	1277.2	1273.7	1263.1	1259.6	1263.1	1266.6	1266.6
5°	1293.8	1291.4	1293.8	1293.8	1292.6	1290.2	1278.4	1276.1	1278.4	1279.6	1277.2
7.5°	1298.5	1294.9	1298.5	1296.1	1296.1	1293.8	1282.0	1279.6	1280.8	1284.3	1280.8
10°	1298.5	1294.9	1298.5	1297.3	1296.1	1293.8	1282.0	1277.2	1277.2	1280.8	1277.2
12.5°	1292.6	1290.2	1292.6	1290.2	1290.2	1287.9	1276.1	1271.4	1272.5	1273.7	1269.0
15°	1283.1	1279.6	1283.1	1280.8	1282.0	1278.4	1265.5	1260.7	1260.7	1263.1	1254.8
17.5°	1269.0	1264.3	1269.0	1267.8	1266.6	1264.3	1252.5	1247.8	1246.5	1247.8	1241.9
20°	1252.5	1249.0	1252.5	1251.3	1251.3	1246.5	1234.8	1228.9	1228.9	1228.9	1223.0
22.5°	1226.5	1223.0	1226.5	1228.9	1228.9	1227.7	1217.1	1208.9	1206.5	1206.5	1199.4
25°	1197.1	1193.5	1197.1	1197.1	1195.8	1197.1	1193.5	1188.8	1185.2	1181.7	1174.7
27.5°	1168.7	1166.4	1168.7	1166.4	1168.7	1165.2	1164.1	1162.8	1158.2	1154.6	1145.1
30°	1140.4	1138.1	1140.4	1138.1	1135.8	1133.4	1127.5	1125.1	1129.8	1127.5	1112.1
32.5°	1105.1	1102.7	1105.1	1105.1	1102.7	1102.7	1093.3	1089.7	1090.9	1098.0	1083.8
35°	1068.5	1065.0	1068.5	1067.3	1068.5	1065.0	1059.1	1057.8	1053.2	1061.4	1050.8
37.5°	1026.1	1022.5	1026.1	1026.1	1026.1	1028.4	1023.7	1020.2	1013.0	1023.7	1015.4
40°	982.4	977.7	982.4	981.3	982.4	984.7	982.4	980.0	973.0	981.3	974.1
42.5°	932.9	931.7	932.9	934.0	934.0	938.8	942.3	937.6	935.2	929.3	934.0
45°	879.8	877.4	879.8	882.2	883.3	885.7	896.3	896.3	892.8	883.3	890.4
47.5°	823.2	817.3	823.2	830.3	830.3	833.8	844.4	852.7	846.7	835.0	838.5
50°	763.0	764.3	763.0	767.7	767.7	780.8	789.0	797.3	803.2	789.0	772.5
52.5°	704.1	702.9	704.1	707.6	712.3	718.2	732.4	740.6	750.1	741.9	715.9
55°	645.1	647.5	645.1	646.3	648.7	652.1	673.4	681.7	699.4	688.7	661.6
57.5°	586.2	582.6	586.2	588.5	589.7	593.2	610.9	626.3	636.9	638.0	605.0
60°	517.7	513.0	517.7	528.3	530.8	533.1	549.6	563.8	573.2	576.7	542.5
62.5°	457.6	449.3	457.6	464.7	469.4	475.3	487.1	508.3	516.6	517.7	469.4
65°	393.9	390.3	393.9	408.0	409.3	416.3	429.3	444.6	462.3	460.0	390.3
67.5°	336.2	336.2	336.2	345.5	352.6	356.2	372.7	379.7	402.1	404.5	325.5
70°	283.0	281.9	283.0	290.1	294.8	303.1	318.4	326.7	344.4	350.3	264.2
72.5°	232.3	231.2	232.3	238.2	243.0	250.0	263.0	272.4	287.8	294.8	205.2
75°	187.5	185.1	187.5	192.3	191.0	200.5	211.1	220.6	234.7	239.4	152.1
77.5°	143.9	143.9	143.9	148.6	148.6	158.0	162.7	174.5	182.8	189.9	112.0
80°	107.3	106.1	107.3	108.5	108.5	113.2	121.5	129.7	136.8	136.8	76.7
82.5°	75.5	73.1	75.5	75.5	75.5	77.8	82.6	84.9	89.6	93.2	48.4
85°	47.1	47.1	47.1	48.4	47.1	49.5	50.7	53.1	53.1	50.7	29.5
87.5°	30.7	29.5	30.7	29.5	29.5	28.3	28.3	28.3	27.1	26.0	16.5
90°	21.2	21.2	21.2	21.2	21.2	28.2	37.6	42.3	36.4	24.5	15.6
92.5°	84.7	67.9	84.7	101.6	105.8	150.0	208.8	238.2	209.1	151.0	107.5
95°	295.4	244.4	295.4	346.3	359.1	471.6	621.5	696.5	588.2	371.7	209.3
97.5°	707.8	610.7	707.8	804.7	829.0	900.0	994.8	1042.2	861.7	500.7	229.9
100°	1019.7	904.1	1019.7	1135.2	1164.2	1159.0	1152.0	1148.5	948.2	547.6	247.2
102.5°	1326.6	1227.6	1326.6	1425.6	1450.3	1359.7	1239.0	1178.6	975.5	569.2	264.5
105°	1717.8	1664.6	1717.8	1771.0	1784.3	1581.3	1310.5	1175.2	978.5	585.1	290.1
107.5°	1974.1	1987.0	1974.1	1961.3	1958.1	1674.8	1297.2	1108.5	935.0	588.1	327.9
110°	2071.9	2127.3	2071.9	2016.4	2002.6	1686.0	1263.9	1052.8	896.4	583.7	349.1



TEST NUMBER: P936033

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2080.6	2165.7	2080.6	1995.5	1974.2	1650.2	1218.2	1002.1	862.7	583.9	374.7
115°	2025.4	2143.4	2025.4	1907.4	1877.9	1565.7	1149.5	941.4	824.1	589.2	413.1
117.5°	1908.4	2039.3	1908.4	1777.6	1744.8	1463.1	1087.5	899.7	799.9	600.2	450.4
120°	1814.2	1941.4	1814.2	1687.0	1655.2	1397.8	1054.5	883.0	791.7	609.0	472.1
122.5°	1722.4	1847.8	1722.4	1596.9	1565.6	1333.8	1024.7	870.2	787.5	621.9	497.7
125°	1591.4	1707.0	1591.4	1475.9	1446.9	1250.0	987.5	856.3	783.9	639.1	530.6
127.5°	1473.6	1571.1	1473.6	1376.2	1351.8	1182.7	957.3	844.6	781.8	656.3	562.3
130°	1404.2	1494.2	1404.2	1314.1	1291.6	1141.1	940.5	840.1	783.1	669.0	583.4
132.5°	1341.2	1421.9	1341.2	1260.6	1240.4	1105.7	926.0	836.2	783.9	679.2	600.7
135°	1254.9	1324.5	1254.9	1185.4	1168.0	1055.2	904.8	829.5	783.1	690.4	620.7
137.5°	1185.8	1242.6	1185.8	1128.8	1114.6	1019.2	892.0	828.4	788.0	707.0	646.3
140°	1138.2	1191.4	1138.2	1085.0	1071.7	989.3	879.4	824.5	788.8	717.3	663.7
142.5°	1098.9	1144.6	1098.9	1053.1	1041.7	969.3	872.8	824.5	791.6	725.8	676.4
145°	1039.9	1074.5	1039.9	1005.2	996.5	937.3	858.4	819.0	791.7	736.9	695.9
147.5°	994.6	1023.3	994.6	965.8	958.7	912.1	850.0	819.0	797.1	753.3	720.4
150°	966.1	989.3	966.1	942.8	937.0	897.6	845.2	819.0	799.9	761.8	733.2
152.5°	941.7	959.2	941.7	924.1	919.8	886.2	841.4	819.0	801.8	767.4	741.6
155°	913.7	925.3	913.7	902.1	899.1	872.4	836.8	819.0	805.9	779.6	760.0
157.5°	891.5	899.7	891.5	883.3	881.3	860.5	832.8	819.0	810.0	791.8	778.3
160°	878.2	883.0	878.2	873.5	872.4	854.6	830.9	819.0	811.8	797.5	786.7
162.5°	869.6	874.1	869.6	865.1	864.1	849.1	829.0	819.0	813.8	803.4	795.6
165°	857.1	861.8	857.1	852.4	851.2	840.5	826.1	819.0	816.7	811.9	808.4
167.5°	848.2	850.1	848.2	846.2	845.7	838.6	829.2	824.5	822.5	818.5	815.6
170°	845.7	845.7	845.7	845.7	845.7	838.6	829.2	824.5	824.4	824.2	824.0
172.5°	839.1	837.4	839.1	840.8	841.2	835.7	828.3	824.5	824.5	824.5	824.5
175°	835.1	835.1	835.1	835.1	835.1	831.6	826.8	824.5	825.6	827.8	829.5
177.5°	831.5	829.5	831.5	833.4	834.0	831.2	827.5	825.7	826.6	828.3	829.5
180°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5



TEST NUMBER: P936033

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1264.3	1257.2	1257.2	1245.4	1240.7	1237.2	1231.3	1213.6	1208.9	1204.1	1211.2
5°	1274.9	1261.9	1252.5	1231.3	1213.6	1206.5	1184.1	1141.7	1113.3	1092.1	1080.3
7.5°	1277.2	1260.7	1243.1	1210.0	1167.5	1148.7	1080.3	1002.5	981.3	962.3	950.6
10°	1274.9	1256.0	1231.3	1181.7	1081.5	1048.5	980.0	929.3	916.4	912.8	916.4
12.5°	1266.6	1249.0	1214.8	1132.2	991.9	969.5	929.3	899.9	897.5	903.4	935.2
15°	1252.5	1236.0	1195.8	1066.1	942.3	925.8	897.5	886.9	899.9	941.1	1036.7
17.5°	1238.3	1219.5	1170.0	1001.3	904.6	892.8	872.7	894.0	967.1	1022.5	1054.4
20°	1219.5	1197.1	1140.4	954.1	877.4	866.8	857.4	953.0	1008.4	1028.4	1046.1
22.5°	1197.1	1173.4	1100.3	921.1	849.1	840.8	846.7	986.0	1008.4	1022.5	1037.8
25°	1167.5	1147.6	1053.2	895.1	826.7	817.3	839.7	982.4	995.4	998.9	1029.5
27.5°	1140.4	1114.5	1003.7	871.6	799.6	796.0	845.6	967.1	976.5	980.0	1013.0
30°	1107.4	1068.5	948.2	846.7	771.3	770.2	846.7	948.2	945.8	955.3	988.3
32.5°	1073.2	1000.1	885.7	816.1	744.2	743.0	838.5	919.9	917.5	930.6	955.3
35°	1041.4	947.1	800.8	780.8	710.0	711.2	818.4	886.9	888.1	899.9	915.2
37.5°	1008.4	901.0	707.6	741.9	677.0	677.0	791.3	856.2	853.9	857.4	878.6
40°	969.5	829.1	625.1	691.1	646.3	642.8	758.4	823.2	815.0	813.8	843.3
42.5°	928.1	750.1	563.8	623.9	610.9	606.2	718.2	783.1	767.7	771.3	809.1
45°	883.3	728.8	516.6	527.2	574.3	570.8	674.6	737.1	726.5	736.0	774.9
47.5°	838.5	686.4	501.2	437.6	535.4	534.2	626.3	692.3	686.4	695.8	737.1
50°	777.2	639.2	500.0	375.1	491.8	496.5	568.4	648.7	648.7	656.9	700.5
52.5°	698.2	581.5	454.1	339.6	441.0	455.2	517.7	610.9	613.2	621.5	660.4
55°	626.3	521.3	421.0	312.5	381.0	411.6	468.2	572.0	576.7	584.9	620.4
57.5°	560.2	434.0	414.0	280.7	325.5	355.0	424.5	534.2	536.6	543.7	577.9
60°	489.4	313.7	379.7	246.5	277.2	299.6	384.5	489.4	497.7	502.4	531.9
62.5°	409.3	227.6	344.4	222.9	253.6	258.3	351.4	446.9	457.6	461.1	478.8
65°	291.3	191.0	292.5	202.9	228.8	229.9	316.1	403.4	412.7	418.6	431.7
67.5°	196.9	155.7	222.9	184.0	209.9	211.1	281.9	352.6	365.6	370.3	378.6
70°	136.8	103.8	165.1	164.0	188.7	191.0	245.3	306.6	318.4	322.0	326.7
72.5°	100.2	83.7	136.8	147.5	166.3	168.6	207.5	254.8	266.5	270.1	272.4
75°	76.7	88.5	110.9	128.5	141.5	142.7	169.9	207.5	215.8	218.2	219.3
77.5°	61.3	82.6	81.4	103.8	115.6	113.2	133.3	160.4	167.5	167.5	167.5
80°	46.0	64.9	61.3	74.3	84.9	82.6	95.5	114.4	116.8	119.1	117.9
82.5°	34.2	41.2	41.2	47.1	56.6	54.3	63.6	74.3	74.3	74.3	76.7
85°	21.2	23.6	18.8	24.7	31.9	30.7	35.3	40.1	41.2	41.2	38.9
87.5°	12.9	10.6	5.9	9.5	14.2	14.2	16.5	17.7	16.5	16.5	16.5
90°	14.5	10.0	5.5	10.0	14.5	15.6	24.5	36.4	42.3	37.6	28.2
92.5°	98.0	60.1	22.2	60.1	98.0	107.5	151.0	209.1	238.2	208.8	150.0
95°	192.0	122.7	53.5	122.7	192.0	209.3	371.7	588.2	696.5	621.5	471.6
97.5°	214.7	153.5	92.4	153.5	214.7	229.9	500.7	861.7	1042.2	994.8	900.0
100°	233.3	177.9	122.5	177.9	233.3	247.2	547.6	948.2	1148.5	1152.0	1159.0
102.5°	251.5	199.9	148.1	199.9	251.5	264.5	569.2	975.5	1178.6	1239.0	1359.7
105°	279.1	235.4	191.6	235.4	279.1	290.1	585.1	978.5	1175.2	1310.5	1581.3
107.5°	317.8	276.9	236.1	276.9	317.8	327.9	588.1	935.0	1108.5	1297.2	1674.8
110°	339.9	303.0	266.1	303.0	339.9	349.1	583.7	896.4	1052.8	1263.9	1686.0



TEST NUMBER: P936033

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	366.0	330.8	295.6	330.8	366.0	374.7	583.9	862.7	1002.1	1218.2	1650.2
115°	405.0	372.6	340.2	372.6	405.0	413.1	589.2	824.1	941.4	1149.5	1565.7
117.5°	443.1	413.6	384.2	413.6	443.1	450.4	600.2	799.9	899.7	1087.5	1463.1
120°	465.1	437.5	409.7	437.5	465.1	472.1	609.0	791.7	883.0	1054.5	1397.8
122.5°	490.8	462.7	434.8	462.7	490.8	497.7	621.9	787.5	870.2	1024.7	1333.8
125°	524.2	498.7	473.3	498.7	524.2	530.6	639.1	783.9	856.3	987.5	1250.0
127.5°	555.8	530.1	504.4	530.1	555.8	562.3	656.3	781.8	844.6	957.3	1182.7
130°	576.5	548.8	521.1	548.8	576.5	583.4	669.0	783.1	840.1	940.5	1141.1
132.5°	593.8	566.1	538.3	566.1	593.8	600.7	679.2	783.9	836.2	926.0	1105.7
135°	614.4	589.2	564.0	589.2	614.4	620.7	690.4	783.1	829.5	904.8	1055.2
137.5°	640.1	615.1	590.1	615.1	640.1	646.3	707.0	788.0	828.4	892.0	1019.2
140°	658.0	634.9	611.9	634.9	658.0	663.7	717.3	788.8	824.5	879.4	989.3
142.5°	671.1	649.8	628.6	649.8	671.1	676.4	725.8	791.6	824.5	872.8	969.3
145°	691.2	672.8	654.2	672.8	691.2	695.9	736.9	791.7	819.0	858.4	937.3
147.5°	715.9	697.9	679.7	697.9	715.9	720.4	753.3	797.1	819.0	850.0	912.1
150°	729.1	712.8	696.5	712.8	729.1	733.2	761.8	799.9	819.0	845.2	897.6
152.5°	738.5	726.1	713.7	726.1	738.5	741.6	767.4	801.8	819.0	841.4	886.2
155°	757.7	748.6	739.4	748.6	757.7	760.0	779.6	805.9	819.0	836.8	872.4
157.5°	776.0	767.2	758.3	767.2	776.0	778.3	791.8	810.0	819.0	832.8	860.5
160°	785.0	778.0	771.0	778.0	785.0	786.7	797.5	811.8	819.0	830.9	854.6
162.5°	794.3	789.1	783.9	789.1	794.3	795.6	803.4	813.8	819.0	829.0	849.1
165°	807.2	802.5	797.8	802.5	807.2	808.4	811.9	816.7	819.0	826.1	840.5
167.5°	815.1	812.8	810.6	812.8	815.1	815.6	818.5	822.5	824.5	829.2	838.6
170°	823.4	821.2	819.0	821.2	823.4	824.0	824.2	824.4	824.5	829.2	838.6
172.5°	824.4	823.9	823.4	823.9	824.4	824.5	824.5	824.5	824.5	828.3	835.7
175°	829.5	829.5	829.5	829.5	829.5	829.5	827.8	825.6	824.5	826.8	831.6
177.5°	829.5	829.5	829.5	829.5	829.5	829.5	828.3	826.6	825.7	827.5	831.2
180°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5



TEST NUMBER: P936033

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1203.0	1199.4	1204.1	1191.1	1204.1	1199.4	1203.0	1211.2	1204.1	1208.9	1213.6
5°	1055.5	1049.6	1030.8	1015.4	1030.8	1049.6	1055.5	1080.3	1092.1	1113.3	1141.7
7.5°	943.5	938.8	934.0	924.6	934.0	938.8	943.5	950.6	962.3	981.3	1002.5
10°	918.7	919.9	927.0	925.8	927.0	919.9	918.7	916.4	912.8	916.4	929.3
12.5°	982.4	993.0	1032.0	1029.5	1032.0	993.0	982.4	935.2	903.4	897.5	899.9
15°	1055.5	1059.1	1067.3	1068.5	1067.3	1059.1	1055.5	1036.7	941.1	899.9	886.9
17.5°	1062.6	1063.8	1069.7	1069.7	1069.7	1063.8	1062.6	1054.4	1022.5	967.1	894.0
20°	1056.7	1059.1	1070.9	1073.2	1070.9	1059.1	1056.7	1046.1	1028.4	1008.4	953.0
22.5°	1054.4	1059.1	1068.5	1067.3	1068.5	1059.1	1054.4	1037.8	1022.5	1008.4	986.0
25°	1042.6	1042.6	1043.7	1044.9	1043.7	1042.6	1042.6	1029.5	998.9	995.4	982.4
27.5°	1017.8	1020.2	1027.2	1026.1	1027.2	1020.2	1017.8	1013.0	980.0	976.5	967.1
30°	995.4	993.0	987.1	982.4	987.1	993.0	995.4	988.3	955.3	945.8	948.2
32.5°	957.6	951.7	945.8	942.3	945.8	951.7	957.6	955.3	930.6	917.5	919.9
35°	912.8	914.0	912.8	909.3	912.8	914.0	912.8	915.2	899.9	888.1	886.9
37.5°	881.0	883.3	882.2	877.4	882.2	883.3	881.0	878.6	857.4	853.9	856.2
40°	848.0	849.1	848.0	844.4	848.0	849.1	848.0	843.3	813.8	815.0	823.2
42.5°	816.1	815.0	811.4	809.1	811.4	815.0	816.1	809.1	771.3	767.7	783.1
45°	779.5	780.8	773.6	770.2	773.6	780.8	779.5	774.9	736.0	726.5	737.1
47.5°	743.0	743.0	737.1	733.6	737.1	743.0	743.0	737.1	695.8	686.4	692.3
50°	704.1	702.9	694.6	693.5	694.6	702.9	704.1	700.5	656.9	648.7	648.7
52.5°	659.3	659.3	660.4	662.8	660.4	659.3	659.3	660.4	621.5	613.2	610.9
55°	620.4	621.5	629.7	632.2	629.7	621.5	620.4	620.4	584.9	576.7	572.0
57.5°	580.2	580.2	586.2	586.2	586.2	580.2	580.2	577.9	543.7	536.6	534.2
60°	534.2	536.6	541.3	540.1	541.3	536.6	534.2	531.9	502.4	497.7	489.4
62.5°	485.9	488.3	489.4	487.1	489.4	488.3	485.9	478.8	461.1	457.6	446.9
65°	435.2	437.6	438.7	436.4	438.7	437.6	435.2	431.7	418.6	412.7	403.4
67.5°	383.3	382.1	381.0	385.6	381.0	382.1	383.3	378.6	370.3	365.6	352.6
70°	330.2	330.2	329.0	331.4	329.0	330.2	330.2	326.7	322.0	318.4	306.6
72.5°	273.6	272.4	277.2	273.6	277.2	272.4	273.6	272.4	270.1	266.5	254.8
75°	218.2	220.6	218.2	221.7	218.2	220.6	218.2	219.3	218.2	215.8	207.5
77.5°	166.3	168.6	166.3	166.3	166.3	168.6	166.3	167.5	167.5	167.5	160.4
80°	117.9	116.8	116.8	115.6	116.8	116.8	117.9	117.9	119.1	116.8	114.4
82.5°	75.5	74.3	74.3	76.7	74.3	74.3	75.5	76.7	74.3	74.3	74.3
85°	41.2	42.5	40.1	40.1	40.1	42.5	41.2	38.9	41.2	41.2	40.1
87.5°	15.4	14.2	14.2	14.2	14.2	14.2	15.4	16.5	16.5	16.5	17.7
90°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	28.2	37.6	42.3	36.4
92.5°	105.8	101.6	84.7	67.9	84.7	101.6	105.8	150.0	208.8	238.2	209.1
95°	359.1	346.3	295.4	244.4	295.4	346.3	359.1	471.6	621.5	696.5	588.2
97.5°	829.0	804.7	707.8	610.7	707.8	804.7	829.0	900.0	994.8	1042.2	861.7
100°	1164.2	1135.2	1019.7	904.1	1019.7	1135.2	1164.2	1159.0	1152.0	1148.5	948.2
102.5°	1450.3	1425.6	1326.6	1227.6	1326.6	1425.6	1450.3	1359.7	1239.0	1178.6	975.5
105°	1784.3	1771.0	1717.8	1664.6	1717.8	1771.0	1784.3	1581.3	1310.5	1175.2	978.5
107.5°	1958.1	1961.3	1974.1	1987.0	1974.1	1961.3	1958.1	1674.8	1297.2	1108.5	935.0
110°	2002.6	2016.4	2071.9	2127.3	2071.9	2016.4	2002.6	1686.0	1263.9	1052.8	896.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1974.2	1995.5	2080.6	2165.7	2080.6	1995.5	1974.2	1650.2	1218.2	1002.1	862.7
115°	1877.9	1907.4	2025.4	2143.4	2025.4	1907.4	1877.9	1565.7	1149.5	941.4	824.1
117.5°	1744.8	1777.6	1908.4	2039.3	1908.4	1777.6	1744.8	1463.1	1087.5	899.7	799.9
120°	1655.2	1687.0	1814.2	1941.4	1814.2	1687.0	1655.2	1397.8	1054.5	883.0	791.7
122.5°	1565.6	1596.9	1722.4	1847.8	1722.4	1596.9	1565.6	1333.8	1024.7	870.2	787.5
125°	1446.9	1475.9	1591.4	1707.0	1591.4	1475.9	1446.9	1250.0	987.5	856.3	783.9
127.5°	1351.8	1376.2	1473.6	1571.1	1473.6	1376.2	1351.8	1182.7	957.3	844.6	781.8
130°	1291.6	1314.1	1404.2	1494.2	1404.2	1314.1	1291.6	1141.1	940.5	840.1	783.1
132.5°	1240.4	1260.6	1341.2	1421.9	1341.2	1260.6	1240.4	1105.7	926.0	836.2	783.9
135°	1168.0	1185.4	1254.9	1324.5	1254.9	1185.4	1168.0	1055.2	904.8	829.5	783.1
137.5°	1114.6	1128.8	1185.8	1242.6	1185.8	1128.8	1114.6	1019.2	892.0	828.4	788.0
140°	1071.7	1085.0	1138.2	1191.4	1138.2	1085.0	1071.7	989.3	879.4	824.5	788.8
142.5°	1041.7	1053.1	1098.9	1144.6	1098.9	1053.1	1041.7	969.3	872.8	824.5	791.6
145°	996.5	1005.2	1039.9	1074.5	1039.9	1005.2	996.5	937.3	858.4	819.0	791.7
147.5°	958.7	965.8	994.6	1023.3	994.6	965.8	958.7	912.1	850.0	819.0	797.1
150°	937.0	942.8	966.1	989.3	966.1	942.8	937.0	897.6	845.2	819.0	799.9
152.5°	919.8	924.1	941.7	959.2	941.7	924.1	919.8	886.2	841.4	819.0	801.8
155°	899.1	902.1	913.7	925.3	913.7	902.1	899.1	872.4	836.8	819.0	805.9
157.5°	881.3	883.3	891.5	899.7	891.5	883.3	881.3	860.5	832.8	819.0	810.0
160°	872.4	873.5	878.2	883.0	878.2	873.5	872.4	854.6	830.9	819.0	811.8
162.5°	864.1	865.1	869.6	874.1	869.6	865.1	864.1	849.1	829.0	819.0	813.8
165°	851.2	852.4	857.1	861.8	857.1	852.4	851.2	840.5	826.1	819.0	816.7
167.5°	845.7	846.2	848.2	850.1	848.2	846.2	845.7	838.6	829.2	824.5	822.5
170°	845.7	845.7	845.7	845.7	845.7	845.7	845.7	838.6	829.2	824.5	824.4
172.5°	841.2	840.8	839.1	837.4	839.1	840.8	841.2	835.7	828.3	824.5	824.5
175°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	831.6	826.8	824.5	825.6
177.5°	834.0	833.4	831.5	829.5	831.5	833.4	834.0	831.2	827.5	825.7	826.6
180°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1231.3	1237.2	1240.7	1245.4	1257.2
5°	1184.1	1206.5	1213.6	1231.3	1252.5
7.5°	1080.3	1148.7	1167.5	1210.0	1243.1
10°	980.0	1048.5	1081.5	1181.7	1231.3
12.5°	929.3	969.5	991.9	1132.2	1214.8
15°	897.5	925.8	942.3	1066.1	1195.8
17.5°	872.7	892.8	904.6	1001.3	1170.0
20°	857.4	866.8	877.4	954.1	1140.4
22.5°	846.7	840.8	849.1	921.1	1100.3
25°	839.7	817.3	826.7	895.1	1053.2
27.5°	845.6	796.0	799.6	871.6	1003.7
30°	846.7	770.2	771.3	846.7	948.2
32.5°	838.5	743.0	744.2	816.1	885.7
35°	818.4	711.2	710.0	780.8	800.8
37.5°	791.3	677.0	677.0	741.9	707.6
40°	758.4	642.8	646.3	691.1	625.1
42.5°	718.2	606.2	610.9	623.9	563.8
45°	674.6	570.8	574.3	527.2	516.6
47.5°	626.3	534.2	535.4	437.6	501.2
50°	568.4	496.5	491.8	375.1	500.0
52.5°	517.7	455.2	441.0	339.6	454.1
55°	468.2	411.6	381.0	312.5	421.0
57.5°	424.5	355.0	325.5	280.7	414.0
60°	384.5	299.6	277.2	246.5	379.7
62.5°	351.4	258.3	253.6	222.9	344.4
65°	316.1	229.9	228.8	202.9	292.5
67.5°	281.9	211.1	209.9	184.0	222.9
70°	245.3	191.0	188.7	164.0	165.1
72.5°	207.5	168.6	166.3	147.5	136.8
75°	169.9	142.7	141.5	128.5	110.9
77.5°	133.3	113.2	115.6	103.8	81.4
80°	95.5	82.6	84.9	74.3	61.3
82.5°	63.6	54.3	56.6	47.1	41.2
85°	35.3	30.7	31.9	24.7	18.8
87.5°	16.5	14.2	14.2	9.5	5.9
90°	24.5	15.6	14.5	10.0	5.5
92.5°	151.0	107.5	98.0	60.1	22.2
95°	371.7	209.3	192.0	122.7	53.5
97.5°	500.7	229.9	214.7	153.5	92.4
100°	547.6	247.2	233.3	177.9	122.5
102.5°	569.2	264.5	251.5	199.9	148.1
105°	585.1	290.1	279.1	235.4	191.6
107.5°	588.1	327.9	317.8	276.9	236.1
110°	583.7	349.1	339.9	303.0	266.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	583.9	374.7	366.0	330.8	295.6
115°	589.2	413.1	405.0	372.6	340.2
117.5°	600.2	450.4	443.1	413.6	384.2
120°	609.0	472.1	465.1	437.5	409.7
122.5°	621.9	497.7	490.8	462.7	434.8
125°	639.1	530.6	524.2	498.7	473.3
127.5°	656.3	562.3	555.8	530.1	504.4
130°	669.0	583.4	576.5	548.8	521.1
132.5°	679.2	600.7	593.8	566.1	538.3
135°	690.4	620.7	614.4	589.2	564.0
137.5°	707.0	646.3	640.1	615.1	590.1
140°	717.3	663.7	658.0	634.9	611.9
142.5°	725.8	676.4	671.1	649.8	628.6
145°	736.9	695.9	691.2	672.8	654.2
147.5°	753.3	720.4	715.9	697.9	679.7
150°	761.8	733.2	729.1	712.8	696.5
152.5°	767.4	741.6	738.5	726.1	713.7
155°	779.6	760.0	757.7	748.6	739.4
157.5°	791.8	778.3	776.0	767.2	758.3
160°	797.5	786.7	785.0	778.0	771.0
162.5°	803.4	795.6	794.3	789.1	783.9
165°	811.9	808.4	807.2	802.5	797.8
167.5°	818.5	815.6	815.1	812.8	810.6
170°	824.2	824.0	823.4	821.2	819.0
172.5°	824.5	824.5	824.4	823.9	823.4
175°	827.8	829.5	829.5	829.5	829.5
177.5°	828.3	829.5	829.5	829.5	829.5
180°	829.5	829.5	829.5	829.5	829.5



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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	12.03	12.79	13.08	13.85	15.29	14.82	15.58	15.88	16.64	18.08
	3H	12.50	13.18	13.56	14.25	15.70	16.15	16.83	17.22	17.90	19.36
	4H	12.68	13.33	13.76	14.40	15.86	16.58	17.23	17.66	18.30	19.76
	6H	12.80	13.39	13.88	14.47	15.94	16.86	17.45	17.94	18.52	20.00
	8H	12.79	13.36	13.89	14.45	15.92	16.92	17.49	18.02	18.58	20.05
	12H	12.76	13.30	13.86	14.38	15.88	16.95	17.49	18.05	18.58	20.07
4H	2H	13.04	13.68	14.12	14.76	16.22	15.22	15.87	16.31	16.94	18.40
	3H	14.06	14.59	15.15	15.69	17.17	16.71	17.25	17.80	18.34	19.82
	4H	14.33	14.82	15.43	15.91	17.41	17.23	17.72	18.32	18.81	20.31
	6H	14.45	14.87	15.55	15.98	17.47	17.58	18.00	18.68	19.11	20.60
	8H	14.45	14.85	15.56	15.95	17.46	17.68	18.07	18.78	19.18	20.68
	12H	14.41	14.77	15.54	15.89	17.40	17.72	18.08	18.85	19.20	20.71
8H	4H	14.77	15.16	15.87	16.27	17.77	17.34	17.74	18.45	18.84	20.35
	6H	15.03	15.35	16.15	16.50	18.00	17.77	18.09	18.89	19.24	20.74
	8H	15.07	15.35	16.20	16.48	18.00	17.91	18.20	19.05	19.33	20.85
	12H	15.05	15.30	16.18	16.42	17.98	18.00	18.25	19.14	19.38	20.94
12H	4H	14.77	15.13	15.89	16.24	17.75	17.30	17.66	18.43	18.78	20.29
	6H	15.08	15.37	16.22	16.50	18.02	17.76	18.05	18.90	19.18	20.70
	8H	15.15	15.40	16.28	16.52	18.08	17.92	18.17	19.05	19.29	20.85