

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: P935823

Luminaire Tested: SQ4-FA-150U-050D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935823
REPORT IS A COMBINATION OF REPORTS P933771 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-050D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

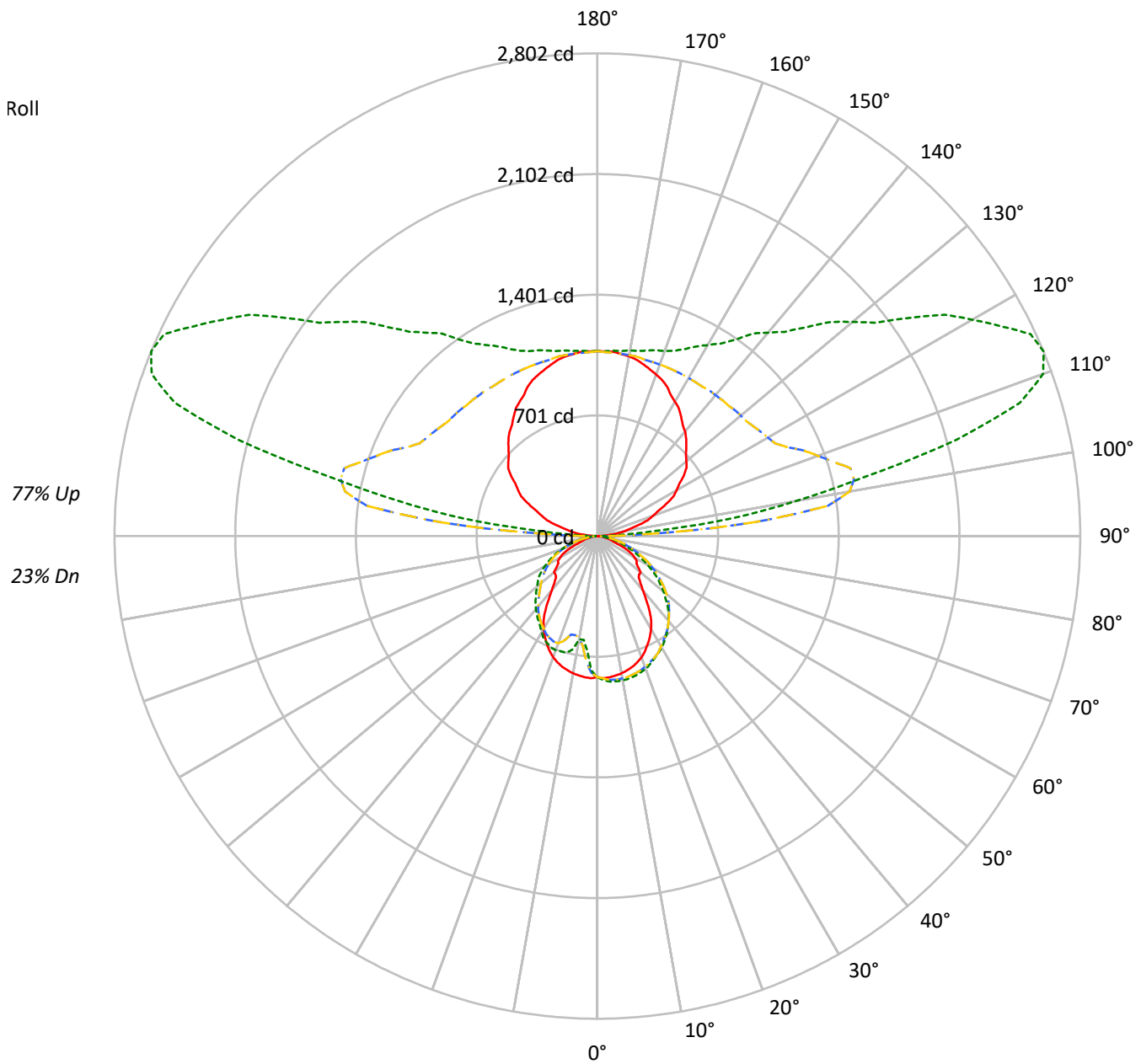
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9085.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 83.4
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

TEST NUMBER: P935823
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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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5065	5065	5065	5065
5°	5101	5113	5101	4020
10°	5065	5036	5065	3601
15°	5008	4928	5008	4114
20°	4902	4798	4902	4123
25°	4685	4609	4685	4036
30°	4406	4453	4406	3844
35°	3926	4255	3926	3633
40°	3270	4022	3270	3474
45°	2920	3749	2920	3290
50°	3099	3424	3099	3107
55°	2913	3073	2913	3000
60°	2999	2610	2999	2747
65°	2715	2158	2715	2412
70°	1875	1719	1875	2022
75°	1638	1271	1638	1522
80°	1312	840	1312	915
85°	739	445	739	378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	0.8
10°-20°	209.8	2.3
20°-30°	324.4	3.6
30°-40°	387.2	4.3
40°-50°	389.5	4.3
50°-60°	338.9	3.7
60°-70°	240.3	2.6
70°-80°	127.1	1.4
80°-90°	35.8	0.4
90°-100°	523.2	5.8
100°-110°	1375.6	15.1
110°-120°	1426.3	15.7
120°-130°	1144.1	12.6
130°-140°	897.7	9.9
140°-150°	689.0	7.6
150°-160°	496.2	5.5
160°-170°	303.6	3.3
170°-180°	102.6	1.1
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0°-30°	608.1	6.7
0°-40°	995.4	11.0
0°-60°	1723.8	19.0
0°-90°	2127.0	23.4
90°-120°	3325.1	36.6
90°-150°	6055.9	66.7
90°-180°	6958.0	76.6
0°-180°	9085.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	819	819	819	819	819	
5°	823	848	823	667	823	78
15°	786	840	786	702	786	221
25°	692	784	692	686	692	318
35°	526	700	526	597	526	325
45°	339	576	339	506	339	272
55°	276	425	276	415	276	254
65°	192	256	192	287	192	184
75°	73	122	73	146	73	77
85°	12	31	12	26	12	17
90°	7	27	7	27	7	6
95°	69	316	69	316	69	77
105°	248	2154	248	2154	248	263
115°	440	2774	440	2774	440	435
125°	612	2209	612	2209	612	544
135°	730	1714	730	1714	730	565
145°	846	1390	846	1390	846	530
155°	957	1197	957	1197	957	440
165°	1032	1115	1032	1115	1032	291
175°	1073	1080	1073	1080	1073	102
180°	1073	1073	1073	1073	1073	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	825.7	825.7	830.4	831.9	831.9	829.6	827.3	829.6	836.6	838.9	838.1
5°	822.6	828.8	837.4	838.9	840.5	839.7	838.1	839.7	847.4	849.0	849.8
7.5°	816.4	828.1	838.9	841.2	843.5	841.2	840.5	842.0	849.8	851.3	851.3
10°	808.7	825.0	837.4	838.9	841.2	838.9	838.9	842.0	849.8	851.3	852.1
12.5°	797.9	820.3	831.9	833.4	836.6	835.8	835.0	838.1	845.8	847.4	847.4
15°	785.5	811.8	822.6	824.2	829.6	828.1	828.1	831.1	839.7	842.0	841.2
17.5°	768.4	801.0	813.4	815.7	819.5	818.7	819.5	822.6	830.4	831.9	832.7
20°	749.1	786.2	801.0	803.3	807.1	807.1	807.1	811.0	818.7	821.8	821.8
22.5°	722.7	770.7	786.2	787.8	792.4	792.4	793.9	799.4	806.3	807.1	807.1
25°	691.7	753.7	766.8	771.5	776.2	778.5	780.8	783.9	786.2	785.5	786.2
27.5°	659.2	732.0	749.1	752.1	758.4	760.7	763.8	764.5	765.3	767.6	766.1
30°	622.8	701.8	727.3	730.4	740.5	742.0	739.0	740.5	744.4	746.0	747.5
32.5°	581.7	656.9	704.9	711.9	721.2	716.5	715.7	718.0	724.3	724.3	725.8
35°	526.0	622.0	684.0	690.2	697.2	691.7	694.8	695.6	699.5	701.8	701.0
37.5°	464.8	591.8	662.3	666.9	672.4	665.4	670.1	672.4	675.4	673.9	673.9
40°	410.6	544.5	636.7	639.8	644.5	639.0	643.7	645.3	646.8	645.3	644.5
42.5°	370.3	492.6	609.6	613.5	610.4	614.2	615.8	618.9	616.6	613.5	613.5
45°	339.3	478.7	580.2	584.8	580.2	586.4	588.7	588.7	581.7	580.2	579.4
47.5°	329.2	450.8	550.8	550.8	548.4	556.2	560.0	554.6	547.6	545.3	545.3
50°	328.4	419.8	510.4	507.4	518.2	527.5	523.6	518.2	512.8	504.3	504.3
52.5°	298.2	381.8	458.5	470.2	487.3	492.6	486.5	481.0	471.7	467.9	464.8
55°	276.5	342.3	411.3	434.6	452.4	459.3	447.8	442.3	428.4	426.0	424.5
57.5°	271.9	285.1	367.9	397.4	419.0	418.3	411.3	401.2	389.6	387.3	386.5
60°	249.4	206.1	321.5	356.4	378.8	376.5	370.3	361.0	350.1	348.6	347.0
62.5°	226.1	149.5	268.8	308.3	340.0	339.3	333.9	319.9	312.2	308.3	305.2
65°	192.1	125.5	191.3	256.4	302.1	303.6	292.1	282.0	273.4	268.8	268.0
67.5°	146.4	102.3	129.4	213.8	265.7	264.1	249.4	244.8	233.9	231.6	227.0
70°	108.4	68.1	89.9	173.5	230.1	226.1	214.6	209.1	199.0	193.7	190.6
72.5°	89.9	55.0	65.8	134.8	193.7	189.0	178.9	172.7	164.2	159.5	156.5
75°	72.8	58.1	50.4	99.9	157.2	154.2	144.8	138.7	131.7	125.5	126.3
77.5°	53.4	54.2	40.3	73.6	124.7	120.0	114.7	106.9	103.8	97.6	97.6
80°	40.3	42.6	30.2	50.4	89.9	89.9	85.2	79.8	74.4	71.3	71.3
82.5°	27.1	27.1	22.5	31.7	61.2	58.9	55.7	54.2	51.1	49.6	49.6
85°	12.4	15.5	13.9	19.3	33.3	34.9	34.9	33.3	32.6	31.0	31.7
87.5°	3.8	7.0	8.5	10.9	17.0	17.8	18.6	18.6	18.6	19.3	19.3
90°	7.2	13.0	18.7	20.2	31.7	47.0	54.7	48.7	36.5	27.4	27.4
92.5°	28.8	77.8	126.8	139.1	195.5	270.7	308.3	270.2	194.0	136.9	131.4
95°	69.1	158.8	248.5	270.9	481.0	761.1	901.2	804.2	610.1	464.6	448.1
97.5°	119.6	198.7	277.7	297.5	647.9	1115.0	1348.6	1287.3	1164.6	1072.7	1041.3
100°	158.5	230.2	301.9	319.9	708.6	1227.0	1486.2	1490.6	1499.7	1506.4	1469.0
102.5°	191.7	258.6	325.5	342.2	736.5	1262.2	1525.1	1603.1	1759.4	1876.6	1844.5
105°	247.8	304.5	361.1	375.3	757.1	1266.2	1520.8	1695.8	2046.1	2308.8	2291.6
107.5°	305.5	358.3	411.1	424.3	760.9	1209.8	1434.3	1678.6	2167.2	2533.6	2537.8
110°	344.3	392.1	439.7	451.7	755.2	1159.9	1362.2	1635.3	2181.6	2591.2	2609.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	382.5	428.0	473.4	484.8	755.4	1116.3	1296.7	1576.2	2135.2	2554.5	2582.0
115°	440.1	482.1	524.1	534.5	762.4	1066.2	1218.1	1487.4	2025.9	2429.8	2468.0
117.5°	497.0	535.2	573.3	582.8	776.6	1035.0	1164.2	1407.2	1893.1	2257.6	2300.0
120°	530.2	566.1	602.0	610.9	788.1	1024.4	1142.5	1364.6	1808.7	2141.7	2182.8
122.5°	562.6	598.8	635.0	644.0	804.6	1018.9	1126.0	1325.9	1725.8	2025.7	2066.3
125°	612.3	645.3	678.3	686.5	827.0	1014.3	1108.0	1277.8	1617.5	1872.3	1909.6
127.5°	652.7	685.9	719.3	727.6	849.3	1011.6	1092.8	1238.6	1530.3	1749.1	1780.6
130°	674.3	710.2	746.1	755.0	865.7	1013.3	1087.1	1216.9	1476.6	1671.3	1700.4
132.5°	696.6	732.5	768.4	777.3	878.9	1014.3	1082.0	1198.2	1430.7	1605.0	1631.1
135°	729.7	762.4	795.1	803.3	893.3	1013.3	1073.4	1170.7	1365.4	1511.4	1533.8
137.5°	763.6	795.9	828.3	836.4	914.9	1019.6	1071.9	1154.2	1318.8	1442.2	1460.6
140°	791.7	821.5	851.2	858.7	928.1	1020.6	1066.9	1138.0	1280.1	1386.8	1403.9
142.5°	813.3	840.8	868.4	875.3	939.2	1024.3	1066.9	1129.4	1254.2	1347.8	1362.6
145°	846.5	870.5	894.5	900.5	953.6	1024.3	1059.7	1110.7	1212.9	1289.5	1300.7
147.5°	879.6	903.0	926.3	932.2	974.7	1031.3	1059.7	1099.9	1180.2	1240.5	1249.8
150°	901.2	922.3	943.4	948.7	985.7	1035.0	1059.7	1093.6	1161.5	1212.4	1219.9
152.5°	923.5	939.6	955.6	959.6	992.9	1037.4	1059.7	1088.6	1146.6	1190.0	1195.7
155°	956.6	968.5	980.4	983.3	1008.8	1042.7	1059.7	1082.7	1128.8	1163.4	1167.2
157.5°	981.1	992.7	1004.2	1007.1	1024.6	1048.0	1059.7	1077.6	1113.5	1140.4	1143.0
160°	997.8	1006.7	1015.6	1017.9	1031.8	1050.4	1059.7	1075.1	1105.8	1128.8	1130.4
162.5°	1014.3	1021.0	1027.7	1029.4	1039.5	1053.0	1059.7	1072.6	1098.6	1118.0	1119.5
165°	1032.3	1038.4	1044.4	1046.0	1050.5	1056.6	1059.7	1069.0	1087.5	1101.5	1103.0
167.5°	1048.9	1051.7	1054.7	1055.4	1059.2	1064.4	1066.9	1073.0	1085.2	1094.2	1094.9
170°	1059.7	1062.5	1065.4	1066.1	1066.4	1066.8	1066.9	1073.0	1085.2	1094.2	1094.2
172.5°	1065.4	1066.1	1066.8	1066.9	1066.9	1066.9	1066.9	1071.7	1081.3	1088.5	1087.9
175°	1073.4	1073.4	1073.4	1073.4	1071.2	1068.4	1066.9	1069.9	1076.0	1080.5	1080.5
177.5°	1073.4	1073.4	1073.4	1073.4	1071.7	1069.5	1068.3	1070.7	1075.5	1079.2	1078.5
180°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	839.7	837.4	839.7	838.1	838.9	836.6	829.6	827.3	829.6	831.9	831.9
5°	849.8	848.2	849.8	849.8	849.0	847.4	839.7	838.1	839.7	840.5	838.9
7.5°	852.9	850.5	852.9	851.3	851.3	849.8	842.0	840.5	841.2	843.5	841.2
10°	852.9	850.5	852.9	852.1	851.3	849.8	842.0	838.9	838.9	841.2	838.9
12.5°	849.0	847.4	849.0	847.4	847.4	845.8	838.1	835.0	835.8	836.6	833.4
15°	842.8	840.5	842.8	841.2	842.0	839.7	831.1	828.1	828.1	829.6	824.2
17.5°	833.4	830.4	833.4	832.7	831.9	830.4	822.6	819.5	818.7	819.5	815.7
20°	822.6	820.3	822.6	821.8	821.8	818.7	811.0	807.1	807.1	807.1	803.3
22.5°	805.6	803.3	805.6	807.1	807.1	806.3	799.4	793.9	792.4	792.4	787.8
25°	786.2	783.9	786.2	786.2	785.5	786.2	783.9	780.8	778.5	776.2	771.5
27.5°	767.6	766.1	767.6	766.1	767.6	765.3	764.5	763.8	760.7	758.4	752.1
30°	749.1	747.5	749.1	747.5	746.0	744.4	740.5	739.0	742.0	740.5	730.4
32.5°	725.8	724.3	725.8	725.8	724.3	724.3	718.0	715.7	716.5	721.2	711.9
35°	701.8	699.5	701.8	701.0	701.8	699.5	695.6	694.8	691.7	697.2	690.2
37.5°	673.9	671.6	673.9	673.9	673.9	675.4	672.4	670.1	665.4	672.4	666.9
40°	645.3	642.2	645.3	644.5	645.3	646.8	645.3	643.7	639.0	644.5	639.8
42.5°	612.7	611.9	612.7	613.5	613.5	616.6	618.9	615.8	614.2	610.4	613.5
45°	577.9	576.3	577.9	579.4	580.2	581.7	588.7	588.7	586.4	580.2	584.8
47.5°	540.7	536.8	540.7	545.3	545.3	547.6	554.6	560.0	556.2	548.4	550.8
50°	501.2	502.0	501.2	504.3	504.3	512.8	518.2	523.6	527.5	518.2	507.4
52.5°	462.5	461.7	462.5	464.8	467.9	471.7	481.0	486.5	492.6	487.3	470.2
55°	423.7	425.3	423.7	424.5	426.0	428.4	442.3	447.8	459.3	452.4	434.6
57.5°	385.0	382.7	385.0	386.5	387.3	389.6	401.2	411.3	418.3	419.0	397.4
60°	340.0	337.0	340.0	347.0	348.6	350.1	361.0	370.3	376.5	378.8	356.4
62.5°	300.5	295.1	300.5	305.2	308.3	312.2	319.9	333.9	339.3	340.0	308.3
65°	258.7	256.4	258.7	268.0	268.8	273.4	282.0	292.1	303.6	302.1	256.4
67.5°	220.8	220.8	220.8	227.0	231.6	233.9	244.8	249.4	264.1	265.7	213.8
70°	185.9	185.1	185.9	190.6	193.7	199.0	209.1	214.6	226.1	230.1	173.5
72.5°	152.6	151.8	152.6	156.5	159.5	164.2	172.7	178.9	189.0	193.7	134.8
75°	123.2	121.6	123.2	126.3	125.5	131.7	138.7	144.8	154.2	157.2	99.9
77.5°	94.5	94.5	94.5	97.6	97.6	103.8	106.9	114.7	120.0	124.7	73.6
80°	70.5	69.7	70.5	71.3	71.3	74.4	79.8	85.2	89.9	89.9	50.4
82.5°	49.6	48.0	49.6	49.6	49.6	51.1	54.2	55.7	58.9	61.2	31.7
85°	31.0	31.0	31.0	31.7	31.0	32.6	33.3	34.9	34.9	33.3	19.3
87.5°	20.2	19.3	20.2	19.3	19.3	18.6	18.6	18.6	17.8	17.0	10.9
90°	27.4	27.4	27.4	27.4	27.4	36.5	48.7	54.7	47.0	31.7	20.2
92.5°	109.6	87.9	109.6	131.4	136.9	194.0	270.2	308.3	270.7	195.5	139.1
95°	382.2	316.2	382.2	448.1	464.6	610.1	804.2	901.2	761.1	481.0	270.9
97.5°	915.8	790.3	915.8	1041.3	1072.7	1164.6	1287.3	1348.6	1115.0	647.9	297.5
100°	1319.5	1169.9	1319.5	1469.0	1506.4	1499.7	1490.6	1486.2	1227.0	708.6	319.9
102.5°	1716.5	1588.4	1716.5	1844.5	1876.6	1759.4	1603.1	1525.1	1262.2	736.5	342.2
105°	2222.8	2153.9	2222.8	2291.6	2308.8	2046.1	1695.8	1520.8	1266.2	757.1	375.3
107.5°	2554.4	2571.0	2554.4	2537.8	2533.6	2167.2	1678.6	1434.3	1209.8	760.9	424.3
110°	2680.8	2752.6	2680.8	2609.1	2591.2	2181.6	1635.3	1362.2	1159.9	755.2	451.7



TEST NUMBER: P935823

CATALOG NUMBER: SQ4-FA-150U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2692.2	2802.3	2692.2	2582.0	2554.5	2135.2	1576.2	1296.7	1116.3	755.4	484.8
115°	2620.7	2773.5	2620.7	2468.0	2429.8	2025.9	1487.4	1218.1	1066.2	762.4	534.5
117.5°	2469.4	2638.8	2469.4	2300.0	2257.6	1893.1	1407.2	1164.2	1035.0	776.6	582.8
120°	2347.4	2512.0	2347.4	2182.8	2141.7	1808.7	1364.6	1142.5	1024.4	788.1	610.9
122.5°	2228.6	2390.9	2228.6	2066.3	2025.7	1725.8	1325.9	1126.0	1018.9	804.6	644.0
125°	2059.1	2208.7	2059.1	1909.6	1872.3	1617.5	1277.8	1108.0	1014.3	827.0	686.5
127.5°	1906.8	2033.0	1906.8	1780.6	1749.1	1530.3	1238.6	1092.8	1011.6	849.3	727.6
130°	1817.0	1933.5	1817.0	1700.4	1671.3	1476.6	1216.9	1087.1	1013.3	865.7	755.0
132.5°	1735.4	1839.8	1735.4	1631.1	1605.0	1430.7	1198.2	1082.0	1014.3	878.9	777.3
135°	1623.9	1713.8	1623.9	1533.8	1511.4	1365.4	1170.7	1073.4	1013.3	893.3	803.3
137.5°	1534.3	1607.9	1534.3	1460.6	1442.2	1318.8	1154.2	1071.9	1019.6	914.9	836.4
140°	1472.8	1541.6	1472.8	1403.9	1386.8	1280.1	1138.0	1066.9	1020.6	928.1	858.7
142.5°	1421.9	1481.1	1421.9	1362.6	1347.8	1254.2	1129.4	1066.9	1024.3	939.2	875.3
145°	1345.5	1390.3	1345.5	1300.7	1289.5	1212.9	1110.7	1059.7	1024.3	953.6	900.5
147.5°	1286.9	1324.1	1286.9	1249.8	1240.5	1180.2	1099.9	1059.7	1031.3	974.7	932.2
150°	1250.0	1280.1	1250.0	1219.9	1212.4	1161.5	1093.6	1059.7	1035.0	985.7	948.7
152.5°	1218.4	1241.2	1218.4	1195.7	1190.0	1146.6	1088.6	1059.7	1037.4	992.9	959.6
155°	1182.2	1197.3	1182.2	1167.2	1163.4	1128.8	1082.7	1059.7	1042.7	1008.8	983.3
157.5°	1153.6	1164.2	1153.6	1143.0	1140.4	1113.5	1077.6	1059.7	1048.0	1024.6	1007.1
160°	1136.4	1142.5	1136.4	1130.4	1128.8	1105.8	1075.1	1059.7	1050.4	1031.8	1017.9
162.5°	1125.2	1131.0	1125.2	1119.5	1118.0	1098.6	1072.6	1059.7	1053.0	1039.5	1029.4
165°	1109.0	1115.1	1109.0	1103.0	1101.5	1087.5	1069.0	1059.7	1056.6	1050.5	1046.0
167.5°	1097.5	1100.0	1097.5	1094.9	1094.2	1085.2	1073.0	1066.9	1064.4	1059.2	1055.4
170°	1094.2	1094.2	1094.2	1094.2	1094.2	1085.2	1073.0	1066.9	1066.8	1066.4	1066.1
172.5°	1085.7	1083.5	1085.7	1087.9	1088.5	1081.3	1071.7	1066.9	1066.9	1066.9	1066.9
175°	1080.5	1080.5	1080.5	1080.5	1080.5	1076.0	1069.9	1066.9	1068.4	1071.2	1073.4
177.5°	1075.9	1073.4	1075.9	1078.5	1079.2	1075.5	1070.7	1068.3	1069.5	1071.7	1073.4
180°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4



TEST NUMBER: P935823

CATALOG NUMBER: SQ4-FA-150U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	830.4	825.7	825.7	818.0	814.9	812.6	808.7	797.1	793.9	790.9	795.5
5°	837.4	828.8	822.6	808.7	797.1	792.4	777.7	749.8	731.2	717.3	709.6
7.5°	838.9	828.1	816.4	794.7	766.8	754.4	709.6	658.4	644.5	632.1	624.3
10°	837.4	825.0	808.7	776.2	710.3	688.6	643.7	610.4	601.8	599.5	601.8
12.5°	831.9	820.3	797.9	743.6	651.4	636.7	610.4	591.1	589.4	593.4	614.2
15°	822.6	811.8	785.5	700.2	618.9	608.1	589.4	582.5	591.1	618.2	680.9
17.5°	813.4	801.0	768.4	657.7	594.1	586.4	573.2	587.1	635.2	671.6	692.5
20°	801.0	786.2	749.1	626.6	576.3	569.3	563.1	625.9	662.3	675.4	687.1
22.5°	786.2	770.7	722.7	605.0	557.7	552.3	556.2	647.6	662.3	671.6	681.7
25°	766.8	753.7	691.7	587.9	543.0	536.8	551.6	645.3	653.7	656.1	676.2
27.5°	749.1	732.0	659.2	572.4	525.2	522.8	555.4	635.2	641.4	643.7	665.4
30°	727.3	701.8	622.8	556.2	506.6	505.8	556.2	622.8	621.2	627.4	649.1
32.5°	704.9	656.9	581.7	536.0	488.8	488.0	550.8	604.2	602.7	611.1	627.4
35°	684.0	622.0	526.0	512.8	466.3	467.1	537.5	582.5	583.3	591.1	601.1
37.5°	662.3	591.8	464.8	487.3	444.6	444.6	519.8	562.3	560.8	563.1	577.1
40°	636.7	544.5	410.6	453.9	424.5	422.2	498.0	540.7	535.2	534.5	553.9
42.5°	609.6	492.6	370.3	409.8	401.2	398.2	471.7	514.4	504.3	506.6	531.4
45°	580.2	478.7	339.3	346.3	377.2	374.9	443.1	484.1	477.2	483.3	508.9
47.5°	550.8	450.8	329.2	287.4	351.7	350.9	411.3	454.7	450.8	457.0	484.1
50°	510.4	419.8	328.4	246.3	323.0	326.1	373.4	426.0	426.0	431.4	460.2
52.5°	458.5	381.8	298.2	223.1	289.7	299.0	340.0	401.2	402.8	408.3	433.7
55°	411.3	342.3	276.5	205.3	250.2	270.3	307.5	375.7	378.8	384.2	407.4
57.5°	367.9	285.1	271.9	184.3	213.8	233.2	278.9	350.9	352.4	357.1	379.5
60°	321.5	206.1	249.4	161.9	182.0	196.7	252.5	321.5	326.9	329.9	349.3
62.5°	268.8	149.5	226.1	146.4	166.6	169.6	230.8	293.6	300.5	302.8	314.5
65°	191.3	125.5	192.1	133.2	150.3	151.1	207.6	264.9	271.1	275.0	283.5
67.5°	129.4	102.3	146.4	120.8	137.9	138.7	185.1	231.6	240.2	243.2	248.6
70°	89.9	68.1	108.4	107.6	124.0	125.5	161.1	201.4	209.1	211.4	214.6
72.5°	65.8	55.0	89.9	96.8	109.2	110.8	136.4	167.3	175.1	177.4	178.9
75°	50.4	58.1	72.8	84.5	92.9	93.7	111.6	136.4	141.8	143.3	144.1
77.5°	40.3	54.2	53.4	68.1	75.9	74.4	87.5	105.3	110.0	110.0	110.0
80°	30.2	42.6	40.3	48.8	55.7	54.2	62.8	75.2	76.7	78.2	77.5
82.5°	22.5	27.1	27.1	31.0	37.2	35.7	41.8	48.8	48.8	48.8	50.4
85°	13.9	15.5	12.4	16.2	20.9	20.2	23.3	26.3	27.1	27.1	25.6
87.5°	8.5	7.0	3.8	6.2	9.3	9.3	10.9	11.6	10.9	10.9	10.9
90°	18.7	13.0	7.2	13.0	18.7	20.2	31.7	47.0	54.7	48.7	36.5
92.5°	126.8	77.8	28.8	77.8	126.8	139.1	195.5	270.7	308.3	270.2	194.0
95°	248.5	158.8	69.1	158.8	248.5	270.9	481.0	761.1	901.2	804.2	610.1
97.5°	277.7	198.7	119.6	198.7	277.7	297.5	647.9	1115.0	1348.6	1287.3	1164.6
100°	301.9	230.2	158.5	230.2	301.9	319.9	708.6	1227.0	1486.2	1490.6	1499.7
102.5°	325.5	258.6	191.7	258.6	325.5	342.2	736.5	1262.2	1525.1	1603.1	1759.4
105°	361.1	304.5	247.8	304.5	361.1	375.3	757.1	1266.2	1520.8	1695.8	2046.1
107.5°	411.1	358.3	305.5	358.3	411.1	424.3	760.9	1209.8	1434.3	1678.6	2167.2
110°	439.7	392.1	344.3	392.1	439.7	451.7	755.2	1159.9	1362.2	1635.3	2181.6



TEST NUMBER: P935823

CATALOG NUMBER: SQ4-FA-150U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	473.4	428.0	382.5	428.0	473.4	484.8	755.4	1116.3	1296.7	1576.2	2135.2
115°	524.1	482.1	440.1	482.1	524.1	534.5	762.4	1066.2	1218.1	1487.4	2025.9
117.5°	573.3	535.2	497.0	535.2	573.3	582.8	776.6	1035.0	1164.2	1407.2	1893.1
120°	602.0	566.1	530.2	566.1	602.0	610.9	788.1	1024.4	1142.5	1364.6	1808.7
122.5°	635.0	598.8	562.6	598.8	635.0	644.0	804.6	1018.9	1126.0	1325.9	1725.8
125°	678.3	645.3	612.3	645.3	678.3	686.5	827.0	1014.3	1108.0	1277.8	1617.5
127.5°	719.3	685.9	652.7	685.9	719.3	727.6	849.3	1011.6	1092.8	1238.6	1530.3
130°	746.1	710.2	674.3	710.2	746.1	755.0	865.7	1013.3	1087.1	1216.9	1476.6
132.5°	768.4	732.5	696.6	732.5	768.4	777.3	878.9	1014.3	1082.0	1198.2	1430.7
135°	795.1	762.4	729.7	762.4	795.1	803.3	893.3	1013.3	1073.4	1170.7	1365.4
137.5°	828.3	795.9	763.6	795.9	828.3	836.4	914.9	1019.6	1071.9	1154.2	1318.8
140°	851.2	821.5	791.7	821.5	851.2	858.7	928.1	1020.6	1066.9	1138.0	1280.1
142.5°	868.4	840.8	813.3	840.8	868.4	875.3	939.2	1024.3	1066.9	1129.4	1254.2
145°	894.5	870.5	846.5	870.5	894.5	900.5	953.6	1024.3	1059.7	1110.7	1212.9
147.5°	926.3	903.0	879.6	903.0	926.3	932.2	974.7	1031.3	1059.7	1099.9	1180.2
150°	943.4	922.3	901.2	922.3	943.4	948.7	985.7	1035.0	1059.7	1093.6	1161.5
152.5°	955.6	939.6	923.5	939.6	955.6	959.6	992.9	1037.4	1059.7	1088.6	1146.6
155°	980.4	968.5	956.6	968.5	980.4	983.3	1008.8	1042.7	1059.7	1082.7	1128.8
157.5°	1004.2	992.7	981.1	992.7	1004.2	1007.1	1024.6	1048.0	1059.7	1077.6	1113.5
160°	1015.6	1006.7	997.8	1006.7	1015.6	1017.9	1031.8	1050.4	1059.7	1075.1	1105.8
162.5°	1027.7	1021.0	1014.3	1021.0	1027.7	1029.4	1039.5	1053.0	1059.7	1072.6	1098.6
165°	1044.4	1038.4	1032.3	1038.4	1044.4	1046.0	1050.5	1056.6	1059.7	1069.0	1087.5
167.5°	1054.7	1051.7	1048.9	1051.7	1054.7	1055.4	1059.2	1064.4	1066.9	1073.0	1085.2
170°	1065.4	1062.5	1059.7	1062.5	1065.4	1066.1	1066.4	1066.8	1066.9	1073.0	1085.2
172.5°	1066.8	1066.1	1065.4	1066.1	1066.8	1066.9	1066.9	1066.9	1066.9	1071.7	1081.3
175°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1071.2	1068.4	1066.9	1069.9	1076.0
177.5°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1071.7	1069.5	1068.3	1070.7	1075.5
180°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4



TEST NUMBER: P935823

CATALOG NUMBER: SQ4-FA-150U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	790.1	787.8	790.9	782.3	790.9	787.8	790.1	795.5	790.9	793.9	797.1
5°	693.3	689.4	677.0	666.9	677.0	689.4	693.3	709.6	717.3	731.2	749.8
7.5°	619.7	616.6	613.5	607.3	613.5	616.6	619.7	624.3	632.1	644.5	658.4
10°	603.4	604.2	608.8	608.1	608.8	604.2	603.4	601.8	599.5	601.8	610.4
12.5°	645.3	652.2	677.8	676.2	677.8	652.2	645.3	614.2	593.4	589.4	591.1
15°	693.3	695.6	701.0	701.8	701.0	695.6	693.3	680.9	618.2	591.1	582.5
17.5°	697.9	698.7	702.5	702.5	702.5	698.7	697.9	692.5	671.6	635.2	587.1
20°	694.1	695.6	703.3	704.9	703.3	695.6	694.1	687.1	675.4	662.3	625.9
22.5°	692.5	695.6	701.8	701.0	701.8	695.6	692.5	681.7	671.6	662.3	647.6
25°	684.8	684.8	685.5	686.3	685.5	684.8	684.8	676.2	656.1	653.7	645.3
27.5°	668.5	670.1	674.7	673.9	674.7	670.1	668.5	665.4	643.7	641.4	635.2
30°	653.7	652.2	648.3	645.3	648.3	652.2	653.7	649.1	627.4	621.2	622.8
32.5°	629.0	625.1	621.2	618.9	621.2	625.1	629.0	627.4	611.1	602.7	604.2
35°	599.5	600.3	599.5	597.2	599.5	600.3	599.5	601.1	591.1	583.3	582.5
37.5°	578.7	580.2	579.4	576.3	579.4	580.2	578.7	577.1	563.1	560.8	562.3
40°	556.9	557.7	556.9	554.6	556.9	557.7	556.9	553.9	534.5	535.2	540.7
42.5°	536.0	535.2	532.9	531.4	532.9	535.2	536.0	531.4	506.6	504.3	514.4
45°	512.1	512.8	508.1	505.8	508.1	512.8	512.1	508.9	483.3	477.2	484.1
47.5°	488.0	488.0	484.1	481.8	484.1	488.0	488.0	484.1	457.0	450.8	454.7
50°	462.5	461.7	456.2	455.5	456.2	461.7	462.5	460.2	431.4	426.0	426.0
52.5°	433.0	433.0	433.7	435.4	433.7	433.0	433.0	433.7	408.3	402.8	401.2
55°	407.4	408.3	413.6	415.2	413.6	408.3	407.4	407.4	384.2	378.8	375.7
57.5°	381.1	381.1	385.0	385.0	385.0	381.1	381.1	379.5	357.1	352.4	350.9
60°	350.9	352.4	355.5	354.7	355.5	352.4	350.9	349.3	329.9	326.9	321.5
62.5°	319.2	320.7	321.5	319.9	321.5	320.7	319.2	314.5	302.8	300.5	293.6
65°	285.8	287.4	288.1	286.6	288.1	287.4	285.8	283.5	275.0	271.1	264.9
67.5°	251.7	250.9	250.2	253.3	250.2	250.9	251.7	248.6	243.2	240.2	231.6
70°	216.9	216.9	216.1	217.7	216.1	216.9	216.9	214.6	211.4	209.1	201.4
72.5°	179.7	178.9	182.0	179.7	182.0	178.9	179.7	178.9	177.4	175.1	167.3
75°	143.3	144.8	143.3	145.6	143.3	144.8	143.3	144.1	143.3	141.8	136.4
77.5°	109.2	110.8	109.2	109.2	109.2	110.8	109.2	110.0	110.0	110.0	105.3
80°	77.5	76.7	76.7	75.9	76.7	76.7	77.5	77.5	78.2	76.7	75.2
82.5°	49.6	48.8	48.8	50.4	48.8	48.8	49.6	50.4	48.8	48.8	48.8
85°	27.1	27.9	26.3	26.3	26.3	27.9	27.1	25.6	27.1	27.1	26.3
87.5°	10.1	9.3	9.3	9.3	9.3	9.3	10.1	10.9	10.9	10.9	11.6
90°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	36.5	48.7	54.7	47.0
92.5°	136.9	131.4	109.6	87.9	109.6	131.4	136.9	194.0	270.2	308.3	270.7
95°	464.6	448.1	382.2	316.2	382.2	448.1	464.6	610.1	804.2	901.2	761.1
97.5°	1072.7	1041.3	915.8	790.3	915.8	1041.3	1072.7	1164.6	1287.3	1348.6	1115.0
100°	1506.4	1469.0	1319.5	1169.9	1319.5	1469.0	1506.4	1499.7	1490.6	1486.2	1227.0
102.5°	1876.6	1844.5	1716.5	1588.4	1716.5	1844.5	1876.6	1759.4	1603.1	1525.1	1262.2
105°	2308.8	2291.6	2222.8	2153.9	2222.8	2291.6	2308.8	2046.1	1695.8	1520.8	1266.2
107.5°	2533.6	2537.8	2554.4	2571.0	2554.4	2537.8	2533.6	2167.2	1678.6	1434.3	1209.8
110°	2591.2	2609.1	2680.8	2752.6	2680.8	2609.1	2591.2	2181.6	1635.3	1362.2	1159.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2554.5	2582.0	2692.2	2802.3	2692.2	2582.0	2554.5	2135.2	1576.2	1296.7	1116.3
115°	2429.8	2468.0	2620.7	2773.5	2620.7	2468.0	2429.8	2025.9	1487.4	1218.1	1066.2
117.5°	2257.6	2300.0	2469.4	2638.8	2469.4	2300.0	2257.6	1893.1	1407.2	1164.2	1035.0
120°	2141.7	2182.8	2347.4	2512.0	2347.4	2182.8	2141.7	1808.7	1364.6	1142.5	1024.4
122.5°	2025.7	2066.3	2228.6	2390.9	2228.6	2066.3	2025.7	1725.8	1325.9	1126.0	1018.9
125°	1872.3	1909.6	2059.1	2208.7	2059.1	1909.6	1872.3	1617.5	1277.8	1108.0	1014.3
127.5°	1749.1	1780.6	1906.8	2033.0	1906.8	1780.6	1749.1	1530.3	1238.6	1092.8	1011.6
130°	1671.3	1700.4	1817.0	1933.5	1817.0	1700.4	1671.3	1476.6	1216.9	1087.1	1013.3
132.5°	1605.0	1631.1	1735.4	1839.8	1735.4	1631.1	1605.0	1430.7	1198.2	1082.0	1014.3
135°	1511.4	1533.8	1623.9	1713.8	1623.9	1533.8	1511.4	1365.4	1170.7	1073.4	1013.3
137.5°	1442.2	1460.6	1534.3	1607.9	1534.3	1460.6	1442.2	1318.8	1154.2	1071.9	1019.6
140°	1386.8	1403.9	1472.8	1541.6	1472.8	1403.9	1386.8	1280.1	1138.0	1066.9	1020.6
142.5°	1347.8	1362.6	1421.9	1481.1	1421.9	1362.6	1347.8	1254.2	1129.4	1066.9	1024.3
145°	1289.5	1300.7	1345.5	1390.3	1345.5	1300.7	1289.5	1212.9	1110.7	1059.7	1024.3
147.5°	1240.5	1249.8	1286.9	1324.1	1286.9	1249.8	1240.5	1180.2	1099.9	1059.7	1031.3
150°	1212.4	1219.9	1250.0	1280.1	1250.0	1219.9	1212.4	1161.5	1093.6	1059.7	1035.0
152.5°	1190.0	1195.7	1218.4	1241.2	1218.4	1195.7	1190.0	1146.6	1088.6	1059.7	1037.4
155°	1163.4	1167.2	1182.2	1197.3	1182.2	1167.2	1163.4	1128.8	1082.7	1059.7	1042.7
157.5°	1140.4	1143.0	1153.6	1164.2	1153.6	1143.0	1140.4	1113.5	1077.6	1059.7	1048.0
160°	1128.8	1130.4	1136.4	1142.5	1136.4	1130.4	1128.8	1105.8	1075.1	1059.7	1050.4
162.5°	1118.0	1119.5	1125.2	1131.0	1125.2	1119.5	1118.0	1098.6	1072.6	1059.7	1053.0
165°	1101.5	1103.0	1109.0	1115.1	1109.0	1103.0	1101.5	1087.5	1069.0	1059.7	1056.6
167.5°	1094.2	1094.9	1097.5	1100.0	1097.5	1094.9	1094.2	1085.2	1073.0	1066.9	1064.4
170°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1085.2	1073.0	1066.9	1066.8
172.5°	1088.5	1087.9	1085.7	1083.5	1085.7	1087.9	1088.5	1081.3	1071.7	1066.9	1066.9
175°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1076.0	1069.9	1066.9	1068.4
177.5°	1079.2	1078.5	1075.9	1073.4	1075.9	1078.5	1079.2	1075.5	1070.7	1068.3	1069.5
180°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	818.7	818.7	818.7	818.7	818.7
2.5°	808.7	812.6	814.9	818.0	825.7
5°	777.7	792.4	797.1	808.7	822.6
7.5°	709.6	754.4	766.8	794.7	816.4
10°	643.7	688.6	710.3	776.2	808.7
12.5°	610.4	636.7	651.4	743.6	797.9
15°	589.4	608.1	618.9	700.2	785.5
17.5°	573.2	586.4	594.1	657.7	768.4
20°	563.1	569.3	576.3	626.6	749.1
22.5°	556.2	552.3	557.7	605.0	722.7
25°	551.6	536.8	543.0	587.9	691.7
27.5°	555.4	522.8	525.2	572.4	659.2
30°	556.2	505.8	506.6	556.2	622.8
32.5°	550.8	488.0	488.8	536.0	581.7
35°	537.5	467.1	466.3	512.8	526.0
37.5°	519.8	444.6	444.6	487.3	464.8
40°	498.0	422.2	424.5	453.9	410.6
42.5°	471.7	398.2	401.2	409.8	370.3
45°	443.1	374.9	377.2	346.3	339.3
47.5°	411.3	350.9	351.7	287.4	329.2
50°	373.4	326.1	323.0	246.3	328.4
52.5°	340.0	299.0	289.7	223.1	298.2
55°	307.5	270.3	250.2	205.3	276.5
57.5°	278.9	233.2	213.8	184.3	271.9
60°	252.5	196.7	182.0	161.9	249.4
62.5°	230.8	169.6	166.6	146.4	226.1
65°	207.6	151.1	150.3	133.2	192.1
67.5°	185.1	138.7	137.9	120.8	146.4
70°	161.1	125.5	124.0	107.6	108.4
72.5°	136.4	110.8	109.2	96.8	89.9
75°	111.6	93.7	92.9	84.5	72.8
77.5°	87.5	74.4	75.9	68.1	53.4
80°	62.8	54.2	55.7	48.8	40.3
82.5°	41.8	35.7	37.2	31.0	27.1
85°	23.3	20.2	20.9	16.2	12.4
87.5°	10.9	9.3	9.3	6.2	3.8
90°	31.7	20.2	18.7	13.0	7.2
92.5°	195.5	139.1	126.8	77.8	28.8
95°	481.0	270.9	248.5	158.8	69.1
97.5°	647.9	297.5	277.7	198.7	119.6
100°	708.6	319.9	301.9	230.2	158.5
102.5°	736.5	342.2	325.5	258.6	191.7
105°	757.1	375.3	361.1	304.5	247.8
107.5°	760.9	424.3	411.1	358.3	305.5
110°	755.2	451.7	439.7	392.1	344.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	755.4	484.8	473.4	428.0	382.5
115°	762.4	534.5	524.1	482.1	440.1
117.5°	776.6	582.8	573.3	535.2	497.0
120°	788.1	610.9	602.0	566.1	530.2
122.5°	804.6	644.0	635.0	598.8	562.6
125°	827.0	686.5	678.3	645.3	612.3
127.5°	849.3	727.6	719.3	685.9	652.7
130°	865.7	755.0	746.1	710.2	674.3
132.5°	878.9	777.3	768.4	732.5	696.6
135°	893.3	803.3	795.1	762.4	729.7
137.5°	914.9	836.4	828.3	795.9	763.6
140°	928.1	858.7	851.2	821.5	791.7
142.5°	939.2	875.3	868.4	840.8	813.3
145°	953.6	900.5	894.5	870.5	846.5
147.5°	974.7	932.2	926.3	903.0	879.6
150°	985.7	948.7	943.4	922.3	901.2
152.5°	992.9	959.6	955.6	939.6	923.5
155°	1008.8	983.3	980.4	968.5	956.6
157.5°	1024.6	1007.1	1004.2	992.7	981.1
160°	1031.8	1017.9	1015.6	1006.7	997.8
162.5°	1039.5	1029.4	1027.7	1021.0	1014.3
165°	1050.5	1046.0	1044.4	1038.4	1032.3
167.5°	1059.2	1055.4	1054.7	1051.7	1048.9
170°	1066.4	1066.1	1065.4	1062.5	1059.7
172.5°	1066.9	1066.9	1066.8	1066.1	1065.4
175°	1071.2	1073.4	1073.4	1073.4	1073.4
177.5°	1071.7	1073.4	1073.4	1073.4	1073.4
180°	1073.4	1073.4	1073.4	1073.4	1073.4



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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	7.23	7.89	8.39	9.04	10.64	10.05	10.72	11.21	11.86	13.47
	3H	7.69	8.29	8.85	9.44	11.06	11.38	11.98	12.55	13.13	14.75
	4H	7.87	8.44	9.05	9.59	11.21	11.82	12.38	12.99	13.53	15.16
	6H	7.98	8.50	9.16	9.65	11.29	12.09	12.61	13.27	13.76	15.40
	8H	7.98	8.47	9.16	9.64	11.27	12.16	12.65	13.34	13.82	15.45
	12H	7.94	8.41	9.13	9.57	11.22	12.19	12.66	13.37	13.82	15.47
4H	2H	8.24	8.80	9.42	9.95	11.58	10.44	11.00	11.62	12.15	13.78
	3H	9.24	9.72	10.43	10.89	12.53	11.92	12.39	13.11	13.57	15.21
	4H	9.51	9.95	10.70	11.11	12.77	12.44	12.88	13.63	14.04	15.70
	6H	9.63	10.00	10.82	11.18	12.83	12.79	13.17	13.99	14.35	16.00
	8H	9.63	9.97	10.82	11.15	12.81	12.90	13.24	14.09	14.42	16.08
	12H	9.58	9.90	10.79	11.09	12.75	12.94	13.26	14.15	14.45	16.11
8H	4H	9.95	10.29	11.14	11.47	13.14	12.55	12.90	13.74	14.08	15.74
	6H	10.20	10.49	11.41	11.71	13.37	12.98	13.26	14.19	14.48	16.14
	8H	10.24	10.49	11.46	11.69	13.37	13.13	13.38	14.34	14.57	16.25
	12H	10.22	10.44	11.43	11.63	13.34	13.22	13.43	14.43	14.63	16.34
12H	4H	9.94	10.26	11.15	11.45	13.12	12.51	12.82	13.71	14.01	15.68
	6H	10.26	10.51	11.47	11.71	13.39	12.97	13.22	14.19	14.42	16.10
	8H	10.32	10.54	11.54	11.73	13.44	13.12	13.34	14.34	14.54	16.25