

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: P933923

Luminaire Tested: SQ4-FA-025U-075D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933923
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

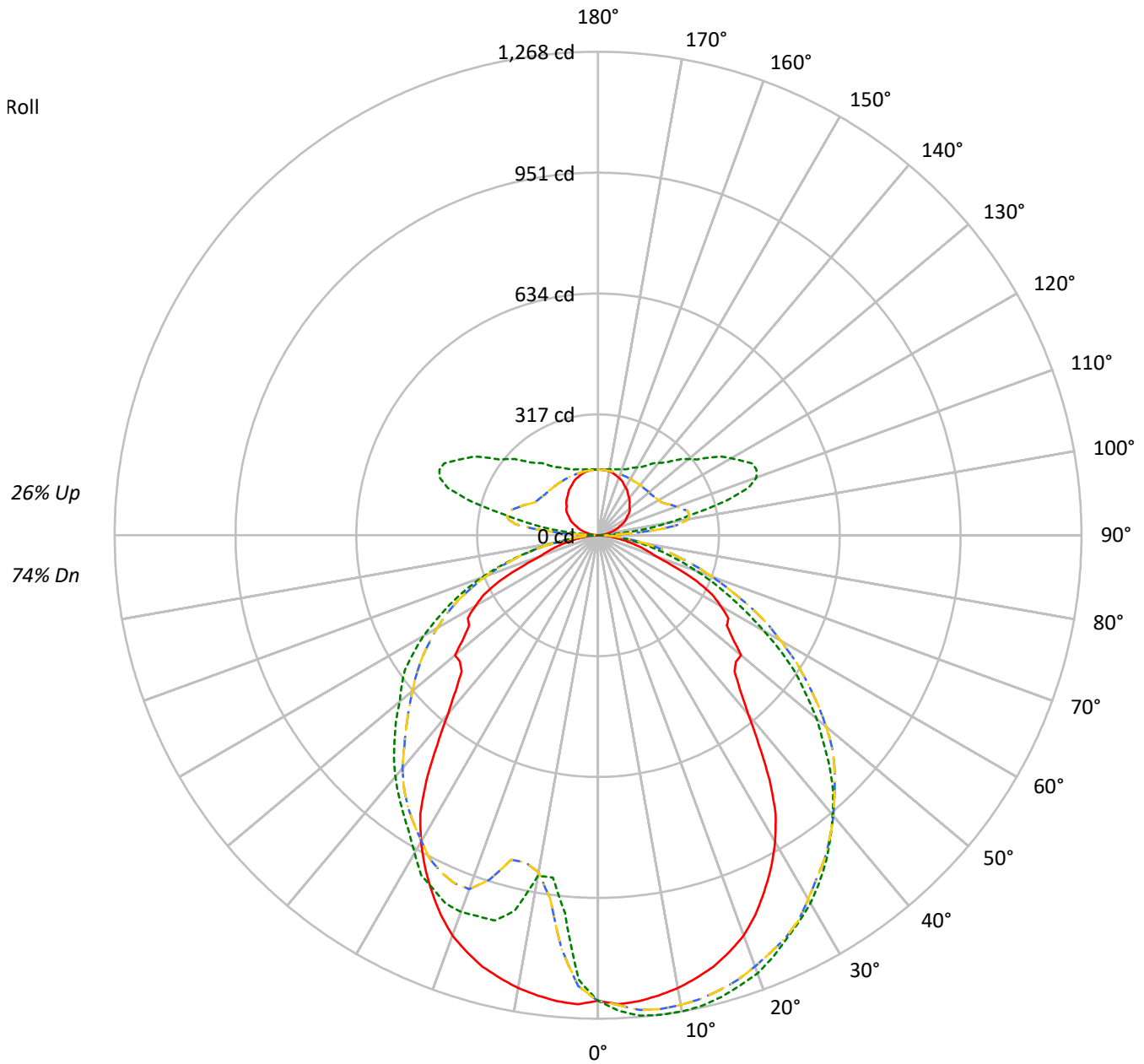
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4283.5 lumens
Efficiency: N/A
Efficacy: 95.2 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-Direct

Input Watts (W): 45
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7552	7552	7552	7552
5°	7606	7624	7606	5995
10°	7552	7510	7552	5369
15°	7467	7347	7467	6135
20°	7308	7154	7308	6147
25°	6986	6873	6986	6017
30°	6570	6640	6570	5731
35°	5854	6345	5854	5417
40°	4876	5997	4876	5180
45°	4353	5590	4353	4906
50°	4621	5105	4621	4632
55°	4343	4582	4343	4474
60°	4472	3892	4472	4098
65°	4048	3217	4048	3597
70°	2797	2563	2797	3015
75°	2444	1895	2444	2269
80°	1956	1254	1956	1364
85°	1103	664	1103	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 6676 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	2.6
10°-20°	312.9	7.3
20°-30°	483.7	11.3
30°-40°	577.4	13.5
40°-50°	580.8	13.6
50°-60°	505.4	11.8
60°-70°	358.3	8.4
70°-80°	189.6	4.4
80°-90°	47.9	1.1
90°-100°	84.0	2.0
100°-110°	220.9	5.2
110°-120°	229.0	5.3
120°-130°	183.7	4.3
130°-140°	144.2	3.4
140°-150°	110.6	2.6
150°-160°	79.7	1.9
160°-170°	48.8	1.1
170°-180°	16.5	0.4
0°-30°	906.8	21.2
0°-40°	1484.2	34.6
0°-60°	2570.3	60.0
0°-90°	3166.1	73.9
90°-120°	534.0	12.5
90°-150°	972.5	22.7
90°-180°	1117.0	26.1
0°-180°	4283.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1221	1221	1221	1221	1221	
5°	1227	1265	1227	994	1227	116
15°	1171	1253	1171	1046	1171	330
25°	1031	1169	1031	1023	1031	474
35°	784	1043	784	890	784	485
45°	506	859	506	754	506	405
55°	412	634	412	619	412	379
65°	286	382	286	427	286	274
75°	109	181	109	217	109	114
85°	18	46	18	39	18	25
90°	1	4	1	4	1	2
95°	11	51	11	51	11	12
105°	40	346	40	346	40	42
115°	71	445	71	445	71	70
125°	98	355	98	355	98	87
135°	117	275	117	275	117	91
145°	136	223	136	223	136	85
155°	154	192	154	192	154	71
165°	166	179	166	179	166	47
175°	172	174	172	174	172	16
180°	172	172	172	172	172	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1231.2	1231.2	1238.2	1240.5	1240.5	1237.0	1233.5	1237.0	1247.4	1250.9	1249.7
5°	1226.6	1235.9	1248.6	1250.9	1253.2	1252.0	1249.7	1252.0	1263.6	1265.9	1267.0
7.5°	1217.4	1234.7	1250.9	1254.3	1257.8	1254.3	1253.2	1255.5	1267.0	1269.3	1269.3
10°	1205.8	1230.1	1248.6	1250.9	1254.3	1250.9	1250.9	1255.5	1267.0	1269.3	1270.5
12.5°	1189.6	1223.1	1240.5	1242.8	1247.4	1246.2	1245.1	1249.7	1261.3	1263.6	1263.6
15°	1171.2	1210.4	1226.6	1228.9	1237.0	1234.7	1234.7	1239.3	1252.0	1255.5	1254.3
17.5°	1145.8	1194.3	1212.8	1216.2	1222.0	1220.8	1222.0	1226.6	1238.2	1240.5	1241.6
20°	1116.9	1172.3	1194.3	1197.7	1203.5	1203.5	1203.5	1209.3	1220.8	1225.5	1225.5
22.5°	1077.6	1149.2	1172.3	1174.6	1181.6	1181.6	1183.9	1192.0	1202.4	1203.5	1203.5
25°	1031.4	1123.8	1143.4	1150.4	1157.3	1160.8	1164.2	1168.9	1172.3	1171.2	1172.3
27.5°	982.9	1091.5	1116.9	1121.5	1130.7	1134.2	1138.8	1140.0	1141.1	1144.6	1142.3
30°	928.6	1046.4	1084.5	1089.2	1104.2	1106.5	1101.9	1104.2	1110.0	1112.3	1114.6
32.5°	867.4	979.4	1051.0	1061.4	1075.3	1068.4	1067.2	1070.7	1079.9	1079.9	1082.2
35°	784.2	927.5	1019.9	1029.1	1039.5	1031.4	1036.0	1037.2	1043.0	1046.4	1045.3
37.5°	693.0	882.4	987.5	994.5	1002.5	992.1	999.1	1002.5	1007.2	1004.8	1004.8
40°	612.2	812.0	949.4	954.0	961.0	952.9	959.8	962.1	964.4	962.1	961.0
42.5°	552.1	734.6	909.0	914.8	910.1	915.9	918.2	922.8	919.4	914.8	914.8
45°	505.9	713.8	865.1	872.0	865.1	874.3	877.8	877.8	867.4	865.1	863.9
47.5°	490.9	672.2	821.2	821.2	817.7	829.3	835.1	827.0	816.6	813.1	813.1
50°	489.7	626.0	761.1	756.5	772.7	786.6	780.8	772.7	764.6	751.9	751.9
52.5°	444.7	569.4	683.8	701.1	726.5	734.6	725.3	717.3	703.4	697.6	693.0
55°	412.3	510.5	613.3	648.0	674.5	684.9	667.6	659.5	638.7	635.2	632.9
57.5°	405.4	425.0	548.6	592.5	624.9	623.7	613.3	598.3	581.0	577.5	576.3
60°	371.9	307.2	479.3	531.3	564.8	561.3	552.1	538.2	522.1	519.8	517.4
62.5°	337.3	222.9	400.8	459.7	507.0	505.9	497.8	477.0	465.5	459.7	455.1
65°	286.4	187.1	285.3	382.3	450.4	452.8	435.4	420.4	407.7	400.8	399.6
67.5°	218.3	152.5	192.9	318.8	396.2	393.9	371.9	365.0	348.8	345.3	338.4
70°	161.7	101.6	134.0	258.7	343.0	337.3	319.9	311.8	296.8	288.8	284.1
72.5°	134.0	82.0	98.2	201.0	288.8	281.8	266.8	257.6	244.9	237.9	233.3
75°	108.6	86.6	75.1	149.0	234.5	229.8	216.0	206.7	196.4	187.1	188.3
77.5°	79.7	80.9	60.1	109.7	186.0	179.0	170.9	159.4	154.8	145.5	145.5
80°	60.1	63.5	45.0	75.1	134.0	134.0	127.0	119.0	110.9	106.3	106.3
82.5°	40.4	40.4	33.5	47.4	91.2	87.8	83.2	80.9	76.2	73.9	73.9
85°	18.5	23.1	20.8	28.9	49.7	52.0	52.0	49.7	48.5	46.2	47.4
87.5°	5.8	10.4	12.7	16.2	25.4	26.6	27.7	27.7	27.7	28.9	28.9
90°	1.2	2.1	3.0	3.2	5.1	7.5	8.8	7.8	5.9	4.4	4.4
92.5°	4.6	12.5	20.3	22.3	31.4	43.5	49.5	43.4	31.1	21.9	21.1
95°	11.1	25.5	39.9	43.5	77.2	122.2	144.7	129.1	97.9	74.6	72.0
97.5°	19.2	31.9	44.6	47.7	104.0	179.0	216.5	206.7	187.0	172.2	167.2
100°	25.5	37.0	48.5	51.4	113.8	197.0	238.6	239.3	240.8	241.9	235.9
102.5°	30.8	41.6	52.3	55.0	118.3	202.7	244.9	257.4	282.5	301.4	296.2
105°	39.8	48.9	58.0	60.3	121.6	203.3	244.2	272.3	328.6	370.8	368.0
107.5°	49.0	57.5	66.0	68.1	122.2	194.3	230.3	269.6	348.0	406.9	407.6
110°	55.3	63.0	70.6	72.5	121.3	186.3	218.8	262.6	350.4	416.1	419.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	61.4	68.8	76.0	77.8	121.3	179.3	208.2	253.1	342.9	410.2	414.6
115°	70.7	77.5	84.2	85.9	122.4	171.2	195.6	238.9	325.3	390.2	396.3
117.5°	79.8	85.9	92.0	93.6	124.7	166.2	187.0	226.0	304.0	362.5	369.3
120°	85.2	90.9	96.6	98.1	126.6	164.5	183.5	219.1	290.4	344.0	350.6
122.5°	90.3	96.2	101.9	103.4	129.2	163.6	180.8	212.9	277.1	325.3	331.9
125°	98.3	103.6	109.0	110.3	132.8	162.9	177.9	205.2	259.8	300.7	306.7
127.5°	104.8	110.1	115.5	116.8	136.4	162.5	175.5	198.9	245.8	280.9	286.0
130°	108.3	114.0	119.7	121.2	139.0	162.7	174.6	195.4	237.1	268.3	273.0
132.5°	111.9	117.7	123.4	124.8	141.1	162.9	173.8	192.4	229.8	257.7	261.9
135°	117.2	122.4	127.7	129.0	143.5	162.8	172.4	188.0	219.3	242.7	246.3
137.5°	122.7	127.8	133.0	134.3	146.9	163.8	172.2	185.4	211.8	231.6	234.5
140°	127.1	131.9	136.7	137.9	149.1	163.9	171.3	182.7	205.6	222.7	225.5
142.5°	130.6	135.0	139.4	140.5	150.8	164.5	171.3	181.3	201.4	216.4	218.8
145°	135.9	139.8	143.6	144.6	153.2	164.5	170.2	178.3	194.7	207.1	208.8
147.5°	141.2	145.0	148.8	149.7	156.5	165.6	170.2	176.6	189.5	199.2	200.7
150°	144.7	148.1	151.5	152.4	158.3	166.2	170.2	175.6	186.5	194.7	195.9
152.5°	148.3	150.8	153.5	154.1	159.5	166.6	170.2	174.8	184.1	191.1	192.0
155°	153.6	155.5	157.5	157.9	162.0	167.5	170.2	173.9	181.3	186.8	187.4
157.5°	157.5	159.4	161.2	161.7	164.5	168.3	170.2	173.0	178.8	183.1	183.6
160°	160.2	161.7	163.1	163.5	165.7	168.7	170.2	172.6	177.6	181.3	181.5
162.5°	162.9	163.9	165.0	165.3	166.9	169.1	170.2	172.2	176.4	179.6	179.8
165°	165.8	166.7	167.7	167.9	168.7	169.7	170.2	171.6	174.6	176.9	177.1
167.5°	168.4	168.9	169.3	169.5	170.1	170.9	171.3	172.3	174.3	175.7	175.8
170°	170.2	170.6	171.1	171.2	171.2	171.3	171.3	172.3	174.3	175.7	175.7
172.5°	171.1	171.2	171.3	171.3	171.3	171.3	171.3	172.1	173.6	174.8	174.7
175°	172.4	172.4	172.4	172.4	172.0	171.6	171.3	171.8	172.8	173.6	173.6
177.5°	172.4	172.4	172.4	172.4	172.1	171.7	171.6	171.9	172.7	173.3	173.2
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1252.0	1248.6	1252.0	1249.7	1250.9	1247.4	1237.0	1233.5	1237.0	1240.5	1240.5
5°	1267.0	1264.7	1267.0	1267.0	1265.9	1263.6	1252.0	1249.7	1252.0	1253.2	1250.9
7.5°	1271.7	1268.2	1271.7	1269.3	1269.3	1267.0	1255.5	1253.2	1254.3	1257.8	1254.3
10°	1271.7	1268.2	1271.7	1270.5	1269.3	1267.0	1255.5	1250.9	1250.9	1254.3	1250.9
12.5°	1265.9	1263.6	1265.9	1263.6	1263.6	1261.3	1249.7	1245.1	1246.2	1247.4	1242.8
15°	1256.6	1253.2	1256.6	1254.3	1255.5	1252.0	1239.3	1234.7	1234.7	1237.0	1228.9
17.5°	1242.8	1238.2	1242.8	1241.6	1240.5	1238.2	1226.6	1222.0	1220.8	1222.0	1216.2
20°	1226.6	1223.1	1226.6	1225.5	1225.5	1220.8	1209.3	1203.5	1203.5	1203.5	1197.7
22.5°	1201.2	1197.7	1201.2	1203.5	1203.5	1202.4	1192.0	1183.9	1181.6	1181.6	1174.6
25°	1172.3	1168.9	1172.3	1172.3	1171.2	1172.3	1168.9	1164.2	1160.8	1157.3	1150.4
27.5°	1144.6	1142.3	1144.6	1142.3	1144.6	1141.1	1140.0	1138.8	1134.2	1130.7	1121.5
30°	1116.9	1114.6	1116.9	1114.6	1112.3	1110.0	1104.2	1101.9	1106.5	1104.2	1089.2
32.5°	1082.2	1079.9	1082.2	1082.2	1079.9	1079.9	1070.7	1067.2	1068.4	1075.3	1061.4
35°	1046.4	1043.0	1046.4	1045.3	1046.4	1043.0	1037.2	1036.0	1031.4	1039.5	1029.1
37.5°	1004.8	1001.4	1004.8	1004.8	1004.8	1007.2	1002.5	999.1	992.1	1002.5	994.5
40°	962.1	957.5	962.1	961.0	962.1	964.4	962.1	959.8	952.9	961.0	954.0
42.5°	913.6	912.4	913.6	914.8	914.8	919.4	922.8	918.2	915.9	910.1	914.8
45°	861.6	859.3	861.6	863.9	865.1	867.4	877.8	877.8	874.3	865.1	872.0
47.5°	806.2	800.4	806.2	813.1	813.1	816.6	827.0	835.1	829.3	817.7	821.2
50°	747.3	748.4	747.3	751.9	751.9	764.6	772.7	780.8	786.6	772.7	756.5
52.5°	689.5	688.4	689.5	693.0	697.6	703.4	717.3	725.3	734.6	726.5	701.1
55°	631.8	634.1	631.8	632.9	635.2	638.7	659.5	667.6	684.9	674.5	648.0
57.5°	574.0	570.6	574.0	576.3	577.5	581.0	598.3	613.3	623.7	624.9	592.5
60°	507.0	502.4	507.0	517.4	519.8	522.1	538.2	552.1	561.3	564.8	531.3
62.5°	448.1	440.1	448.1	455.1	459.7	465.5	477.0	497.8	505.9	507.0	459.7
65°	385.8	382.3	385.8	399.6	400.8	407.7	420.4	435.4	452.8	450.4	382.3
67.5°	329.2	329.2	329.2	338.4	345.3	348.8	365.0	371.9	393.9	396.2	318.8
70°	277.2	276.0	277.2	284.1	288.8	296.8	311.8	319.9	337.3	343.0	258.7
72.5°	227.5	226.4	227.5	233.3	237.9	244.9	257.6	266.8	281.8	288.8	201.0
75°	183.6	181.3	183.6	188.3	187.1	196.4	206.7	216.0	229.8	234.5	149.0
77.5°	140.9	140.9	140.9	145.5	145.5	154.8	159.4	170.9	179.0	186.0	109.7
80°	105.1	104.0	105.1	106.3	106.3	110.9	119.0	127.0	134.0	134.0	75.1
82.5°	73.9	71.6	73.9	73.9	73.9	76.2	80.9	83.2	87.8	91.2	47.4
85°	46.2	46.2	46.2	47.4	46.2	48.5	49.7	52.0	52.0	49.7	28.9
87.5°	30.0	28.9	30.0	28.9	28.9	27.7	27.7	27.7	26.6	25.4	16.2
90°	4.4	4.4	4.4	4.4	4.4	5.9	7.8	8.8	7.5	5.1	3.2
92.5°	17.6	14.1	17.6	21.1	21.9	31.1	43.4	49.5	43.5	31.4	22.3
95°	61.4	50.8	61.4	72.0	74.6	97.9	129.1	144.7	122.2	77.2	43.5
97.5°	147.1	126.9	147.1	167.2	172.2	187.0	206.7	216.5	179.0	104.0	47.7
100°	211.9	187.9	211.9	235.9	241.9	240.8	239.3	238.6	197.0	113.8	51.4
102.5°	275.7	255.1	275.7	296.2	301.4	282.5	257.4	244.9	202.7	118.3	55.0
105°	357.0	345.9	357.0	368.0	370.8	328.6	272.3	244.2	203.3	121.6	60.3
107.5°	410.2	412.9	410.2	407.6	406.9	348.0	269.6	230.3	194.3	122.2	68.1
110°	430.5	442.1	430.5	419.0	416.1	350.4	262.6	218.8	186.3	121.3	72.5



TEST NUMBER: P933923

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	432.3	450.0	432.3	414.6	410.2	342.9	253.1	208.2	179.3	121.3	77.8
115°	420.8	445.4	420.8	396.3	390.2	325.3	238.9	195.6	171.2	122.4	85.9
117.5°	396.6	423.7	396.6	369.3	362.5	304.0	226.0	187.0	166.2	124.7	93.6
120°	377.0	403.4	377.0	350.6	344.0	290.4	219.1	183.5	164.5	126.6	98.1
122.5°	357.9	383.9	357.9	331.9	325.3	277.1	212.9	180.8	163.6	129.2	103.4
125°	330.6	354.7	330.6	306.7	300.7	259.8	205.2	177.9	162.9	132.8	110.3
127.5°	306.2	326.5	306.2	286.0	280.9	245.8	198.9	175.5	162.5	136.4	116.8
130°	291.8	310.5	291.8	273.0	268.3	237.1	195.4	174.6	162.7	139.0	121.2
132.5°	278.7	295.4	278.7	261.9	257.7	229.8	192.4	173.8	162.9	141.1	124.8
135°	260.7	275.2	260.7	246.3	242.7	219.3	188.0	172.4	162.8	143.5	129.0
137.5°	246.4	258.2	246.4	234.5	231.6	211.8	185.4	172.2	163.8	146.9	134.3
140°	236.5	247.6	236.5	225.5	222.7	205.6	182.7	171.3	163.9	149.1	137.9
142.5°	228.3	237.9	228.3	218.8	216.4	201.4	181.3	171.3	164.5	150.8	140.5
145°	216.1	223.3	216.1	208.8	207.1	194.7	178.3	170.2	164.5	153.2	144.6
147.5°	206.7	212.6	206.7	200.7	199.2	189.5	176.6	170.2	165.6	156.5	149.7
150°	200.7	205.6	200.7	195.9	194.7	186.5	175.6	170.2	166.2	158.3	152.4
152.5°	195.7	199.4	195.7	192.0	191.1	184.1	174.8	170.2	166.6	159.5	154.1
155°	189.8	192.3	189.8	187.4	186.8	181.3	173.9	170.2	167.5	162.0	157.9
157.5°	185.3	187.0	185.3	183.6	183.1	178.8	173.0	170.2	168.3	164.5	161.7
160°	182.5	183.5	182.5	181.5	181.3	177.6	172.6	170.2	168.7	165.7	163.5
162.5°	180.7	181.6	180.7	179.8	179.6	176.4	172.2	170.2	169.1	166.9	165.3
165°	178.1	179.1	178.1	177.1	176.9	174.6	171.6	170.2	169.7	168.7	167.9
167.5°	176.3	176.6	176.3	175.8	175.7	174.3	172.3	171.3	170.9	170.1	169.5
170°	175.7	175.7	175.7	175.7	175.7	174.3	172.3	171.3	171.3	171.2	171.2
172.5°	174.3	174.0	174.3	174.7	174.8	173.6	172.1	171.3	171.3	171.3	171.3
175°	173.6	173.6	173.6	173.6	173.6	172.8	171.8	171.3	171.6	172.0	172.4
177.5°	172.8	172.4	172.8	173.2	173.3	172.7	171.9	171.6	171.7	172.1	172.4
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4



TEST NUMBER: P933923

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1238.2	1231.2	1231.2	1219.7	1215.1	1211.6	1205.8	1188.5	1183.9	1179.3	1186.2
5°	1248.6	1235.9	1226.6	1205.8	1188.5	1181.6	1159.6	1118.0	1090.3	1069.5	1058.0
7.5°	1250.9	1234.7	1217.4	1185.0	1143.4	1125.0	1058.0	981.8	961.0	942.5	930.9
10°	1248.6	1230.1	1205.8	1157.3	1059.1	1026.8	959.8	910.1	897.4	894.0	897.4
12.5°	1240.5	1223.1	1189.6	1108.8	971.4	949.4	910.1	881.3	879.0	884.7	915.9
15°	1226.6	1210.4	1171.2	1044.1	922.8	906.7	879.0	868.6	881.3	921.7	1015.2
17.5°	1212.8	1194.3	1145.8	980.6	885.9	874.3	854.7	875.5	947.1	1001.4	1032.6
20°	1194.3	1172.3	1116.9	934.4	859.3	848.9	839.7	933.2	987.5	1007.2	1024.5
22.5°	1172.3	1149.2	1077.6	902.1	831.6	823.5	829.3	965.6	987.5	1001.4	1016.4
25°	1143.4	1123.8	1031.4	876.6	809.7	800.4	822.4	962.1	974.8	978.3	1008.3
27.5°	1116.9	1091.5	982.9	853.5	783.1	779.6	828.1	947.1	956.3	959.8	992.1
30°	1084.5	1046.4	928.6	829.3	755.4	754.2	829.3	928.6	926.3	935.6	967.9
32.5°	1051.0	979.4	867.4	799.3	728.8	727.6	821.2	900.9	898.6	911.3	935.6
35°	1019.9	927.5	784.2	764.6	695.3	696.5	801.6	868.6	869.7	881.3	896.3
37.5°	987.5	882.4	693.0	726.5	663.0	663.0	775.0	838.5	836.2	839.7	860.5
40°	949.4	812.0	612.2	676.8	632.9	629.5	742.7	806.2	798.1	797.0	825.8
42.5°	909.0	734.6	552.1	611.0	598.3	593.7	703.4	766.9	751.9	755.4	792.3
45°	865.1	713.8	505.9	516.3	562.5	559.0	660.7	721.9	711.5	720.7	758.8
47.5°	821.2	672.2	490.9	428.5	524.4	523.2	613.3	678.0	672.2	681.4	721.9
50°	761.1	626.0	489.7	367.3	481.6	486.3	556.7	635.2	635.2	643.3	686.1
52.5°	683.8	569.4	444.7	332.6	432.0	445.8	507.0	598.3	600.6	608.7	646.8
55°	613.3	510.5	412.3	306.1	373.1	403.1	458.5	560.2	564.8	572.9	607.5
57.5°	548.6	425.0	405.4	274.9	318.8	347.7	415.8	523.2	525.5	532.5	566.0
60°	479.3	307.2	371.9	241.4	271.4	293.4	376.5	479.3	487.4	492.0	520.9
62.5°	400.8	222.9	337.3	218.3	248.3	252.9	344.2	437.7	448.1	451.6	468.9
65°	285.3	187.1	286.4	198.7	224.1	225.2	309.5	395.0	404.2	410.0	422.7
67.5°	192.9	152.5	218.3	180.2	205.6	206.7	276.0	345.3	358.0	362.7	370.8
70°	134.0	101.6	161.7	160.5	184.8	187.1	240.2	300.3	311.8	315.3	319.9
72.5°	98.2	82.0	134.0	144.4	162.9	165.2	203.3	249.5	261.0	264.5	266.8
75°	75.1	86.6	108.6	125.9	138.6	139.8	166.3	203.3	211.4	213.7	214.8
77.5°	60.1	80.9	79.7	101.6	113.2	110.9	130.5	157.1	164.0	164.0	164.0
80°	45.0	63.5	60.1	72.8	83.2	80.9	93.6	112.0	114.3	116.7	115.5
82.5°	33.5	40.4	40.4	46.2	55.4	53.1	62.4	72.8	72.8	72.8	75.1
85°	20.8	23.1	18.5	24.3	31.2	30.0	34.6	39.3	40.4	40.4	38.1
87.5°	12.7	10.4	5.8	9.2	13.9	13.9	16.2	17.3	16.2	16.2	16.2
90°	3.0	2.1	1.2	2.1	3.0	3.2	5.1	7.5	8.8	7.8	5.9
92.5°	20.3	12.5	4.6	12.5	20.3	22.3	31.4	43.5	49.5	43.4	31.1
95°	39.9	25.5	11.1	25.5	39.9	43.5	77.2	122.2	144.7	129.1	97.9
97.5°	44.6	31.9	19.2	31.9	44.6	47.7	104.0	179.0	216.5	206.7	187.0
100°	48.5	37.0	25.5	37.0	48.5	51.4	113.8	197.0	238.6	239.3	240.8
102.5°	52.3	41.6	30.8	41.6	52.3	55.0	118.3	202.7	244.9	257.4	282.5
105°	58.0	48.9	39.8	48.9	58.0	60.3	121.6	203.3	244.2	272.3	328.6
107.5°	66.0	57.5	49.0	57.5	66.0	68.1	122.2	194.3	230.3	269.6	348.0
110°	70.6	63.0	55.3	63.0	70.6	72.5	121.3	186.3	218.8	262.6	350.4



TEST NUMBER: P933923

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	76.0	68.8	61.4	68.8	76.0	77.8	121.3	179.3	208.2	253.1	342.9
115°	84.2	77.5	70.7	77.5	84.2	85.9	122.4	171.2	195.6	238.9	325.3
117.5°	92.0	85.9	79.8	85.9	92.0	93.6	124.7	166.2	187.0	226.0	304.0
120°	96.6	90.9	85.2	90.9	96.6	98.1	126.6	164.5	183.5	219.1	290.4
122.5°	101.9	96.2	90.3	96.2	101.9	103.4	129.2	163.6	180.8	212.9	277.1
125°	109.0	103.6	98.3	103.6	109.0	110.3	132.8	162.9	177.9	205.2	259.8
127.5°	115.5	110.1	104.8	110.1	115.5	116.8	136.4	162.5	175.5	198.9	245.8
130°	119.7	114.0	108.3	114.0	119.7	121.2	139.0	162.7	174.6	195.4	237.1
132.5°	123.4	117.7	111.9	117.7	123.4	124.8	141.1	162.9	173.8	192.4	229.8
135°	127.7	122.4	117.2	122.4	127.7	129.0	143.5	162.8	172.4	188.0	219.3
137.5°	133.0	127.8	122.7	127.8	133.0	134.3	146.9	163.8	172.2	185.4	211.8
140°	136.7	131.9	127.1	131.9	136.7	137.9	149.1	163.9	171.3	182.7	205.6
142.5°	139.4	135.0	130.6	135.0	139.4	140.5	150.8	164.5	171.3	181.3	201.4
145°	143.6	139.8	135.9	139.8	143.6	144.6	153.2	164.5	170.2	178.3	194.7
147.5°	148.8	145.0	141.2	145.0	148.8	149.7	156.5	165.6	170.2	176.6	189.5
150°	151.5	148.1	144.7	148.1	151.5	152.4	158.3	166.2	170.2	175.6	186.5
152.5°	153.5	150.8	148.3	150.8	153.5	154.1	159.5	166.6	170.2	174.8	184.1
155°	157.5	155.5	153.6	155.5	157.5	157.9	162.0	167.5	170.2	173.9	181.3
157.5°	161.2	159.4	157.5	159.4	161.2	161.7	164.5	168.3	170.2	173.0	178.8
160°	163.1	161.7	160.2	161.7	163.1	163.5	165.7	168.7	170.2	172.6	177.6
162.5°	165.0	163.9	162.9	163.9	165.0	165.3	166.9	169.1	170.2	172.2	176.4
165°	167.7	166.7	165.8	166.7	167.7	167.9	168.7	169.7	170.2	171.6	174.6
167.5°	169.3	168.9	168.4	168.9	169.3	169.5	170.1	170.9	171.3	172.3	174.3
170°	171.1	170.6	170.2	170.6	171.1	171.2	171.2	171.3	171.3	172.3	174.3
172.5°	171.3	171.2	171.1	171.2	171.3	171.3	171.3	171.3	171.3	172.1	173.6
175°	172.4	172.4	172.4	172.4	172.4	172.4	172.0	171.6	171.3	171.8	172.8
177.5°	172.4	172.4	172.4	172.4	172.4	172.4	172.1	171.7	171.6	171.9	172.7
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4



TEST NUMBER: P933923

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1178.1	1174.6	1179.3	1166.6	1179.3	1174.6	1178.1	1186.2	1179.3	1183.9	1188.5
5°	1033.7	1028.0	1009.5	994.5	1009.5	1028.0	1033.7	1058.0	1069.5	1090.3	1118.0
7.5°	924.0	919.4	914.8	905.5	914.8	919.4	924.0	930.9	942.5	961.0	981.8
10°	899.7	900.9	907.8	906.7	907.8	900.9	899.7	897.4	894.0	897.4	910.1
12.5°	962.1	972.5	1010.6	1008.3	1010.6	972.5	962.1	915.9	884.7	879.0	881.3
15°	1033.7	1037.2	1045.3	1046.4	1045.3	1037.2	1033.7	1015.2	921.7	881.3	868.6
17.5°	1040.7	1041.8	1047.6	1047.6	1047.6	1041.8	1040.7	1032.6	1001.4	947.1	875.5
20°	1034.9	1037.2	1048.7	1051.0	1048.7	1037.2	1034.9	1024.5	1007.2	987.5	933.2
22.5°	1032.6	1037.2	1046.4	1045.3	1046.4	1037.2	1032.6	1016.4	1001.4	987.5	965.6
25°	1021.0	1021.0	1022.2	1023.3	1022.2	1021.0	1021.0	1008.3	978.3	974.8	962.1
27.5°	996.8	999.1	1006.0	1004.8	1006.0	999.1	996.8	992.1	959.8	956.3	947.1
30°	974.8	972.5	966.7	962.1	966.7	972.5	974.8	967.9	935.6	926.3	928.6
32.5°	937.9	932.1	926.3	922.8	926.3	932.1	937.9	935.6	911.3	898.6	900.9
35°	894.0	895.1	894.0	890.5	894.0	895.1	894.0	896.3	881.3	869.7	868.6
37.5°	862.8	865.1	863.9	859.3	863.9	865.1	862.8	860.5	839.7	836.2	838.5
40°	830.4	831.6	830.4	827.0	830.4	831.6	830.4	825.8	797.0	798.1	806.2
42.5°	799.3	798.1	794.6	792.3	794.6	798.1	799.3	792.3	755.4	751.9	766.9
45°	763.5	764.6	757.7	754.2	757.7	764.6	763.5	758.8	720.7	711.5	721.9
47.5°	727.6	727.6	721.9	718.4	721.9	727.6	727.6	721.9	681.4	672.2	678.0
50°	689.5	688.4	680.3	679.1	680.3	688.4	689.5	686.1	643.3	635.2	635.2
52.5°	645.6	645.6	646.8	649.1	646.8	645.6	645.6	646.8	608.7	600.6	598.3
55°	607.5	608.7	616.8	619.1	616.8	608.7	607.5	607.5	572.9	564.8	560.2
57.5°	568.3	568.3	574.0	574.0	574.0	568.3	568.3	566.0	532.5	525.5	523.2
60°	523.2	525.5	530.1	529.0	530.1	525.5	523.2	520.9	492.0	487.4	479.3
62.5°	475.9	478.2	479.3	477.0	479.3	478.2	475.9	468.9	451.6	448.1	437.7
65°	426.2	428.5	429.7	427.4	429.7	428.5	426.2	422.7	410.0	404.2	395.0
67.5°	375.4	374.2	373.1	377.7	373.1	374.2	375.4	370.8	362.7	358.0	345.3
70°	323.4	323.4	322.2	324.6	322.2	323.4	323.4	319.9	315.3	311.8	300.3
72.5°	268.0	266.8	271.4	268.0	271.4	266.8	268.0	266.8	264.5	261.0	249.5
75°	213.7	216.0	213.7	217.1	213.7	216.0	213.7	214.8	213.7	211.4	203.3
77.5°	162.9	165.2	162.9	162.9	162.9	165.2	162.9	164.0	164.0	164.0	157.1
80°	115.5	114.3	114.3	113.2	114.3	114.3	115.5	115.5	116.7	114.3	112.0
82.5°	73.9	72.8	72.8	75.1	72.8	72.8	73.9	75.1	72.8	72.8	72.8
85°	40.4	41.6	39.3	39.3	39.3	41.6	40.4	38.1	40.4	40.4	39.3
87.5°	15.0	13.9	13.9	13.9	13.9	13.9	15.0	16.2	16.2	16.2	17.3
90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.9	7.8	8.8	7.5
92.5°	21.9	21.1	17.6	14.1	17.6	21.1	21.9	31.1	43.4	49.5	43.5
95°	74.6	72.0	61.4	50.8	61.4	72.0	74.6	97.9	129.1	144.7	122.2
97.5°	172.2	167.2	147.1	126.9	147.1	167.2	172.2	187.0	206.7	216.5	179.0
100°	241.9	235.9	211.9	187.9	211.9	235.9	241.9	240.8	239.3	238.6	197.0
102.5°	301.4	296.2	275.7	255.1	275.7	296.2	301.4	282.5	257.4	244.9	202.7
105°	370.8	368.0	357.0	345.9	357.0	368.0	370.8	328.6	272.3	244.2	203.3
107.5°	406.9	407.6	410.2	412.9	410.2	407.6	406.9	348.0	269.6	230.3	194.3
110°	416.1	419.0	430.5	442.1	430.5	419.0	416.1	350.4	262.6	218.8	186.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	410.2	414.6	432.3	450.0	432.3	414.6	410.2	342.9	253.1	208.2	179.3
115°	390.2	396.3	420.8	445.4	420.8	396.3	390.2	325.3	238.9	195.6	171.2
117.5°	362.5	369.3	396.6	423.7	396.6	369.3	362.5	304.0	226.0	187.0	166.2
120°	344.0	350.6	377.0	403.4	377.0	350.6	344.0	290.4	219.1	183.5	164.5
122.5°	325.3	331.9	357.9	383.9	357.9	331.9	325.3	277.1	212.9	180.8	163.6
125°	300.7	306.7	330.6	354.7	330.6	306.7	300.7	259.8	205.2	177.9	162.9
127.5°	280.9	286.0	306.2	326.5	306.2	286.0	280.9	245.8	198.9	175.5	162.5
130°	268.3	273.0	291.8	310.5	291.8	273.0	268.3	237.1	195.4	174.6	162.7
132.5°	257.7	261.9	278.7	295.4	278.7	261.9	257.7	229.8	192.4	173.8	162.9
135°	242.7	246.3	260.7	275.2	260.7	246.3	242.7	219.3	188.0	172.4	162.8
137.5°	231.6	234.5	246.4	258.2	246.4	234.5	231.6	211.8	185.4	172.2	163.8
140°	222.7	225.5	236.5	247.6	236.5	225.5	222.7	205.6	182.7	171.3	163.9
142.5°	216.4	218.8	228.3	237.9	228.3	218.8	216.4	201.4	181.3	171.3	164.5
145°	207.1	208.8	216.1	223.3	216.1	208.8	207.1	194.7	178.3	170.2	164.5
147.5°	199.2	200.7	206.7	212.6	206.7	200.7	199.2	189.5	176.6	170.2	165.6
150°	194.7	195.9	200.7	205.6	200.7	195.9	194.7	186.5	175.6	170.2	166.2
152.5°	191.1	192.0	195.7	199.4	195.7	192.0	191.1	184.1	174.8	170.2	166.6
155°	186.8	187.4	189.8	192.3	189.8	187.4	186.8	181.3	173.9	170.2	167.5
157.5°	183.1	183.6	185.3	187.0	185.3	183.6	183.1	178.8	173.0	170.2	168.3
160°	181.3	181.5	182.5	183.5	182.5	181.5	181.3	177.6	172.6	170.2	168.7
162.5°	179.6	179.8	180.7	181.6	180.7	179.8	179.6	176.4	172.2	170.2	169.1
165°	176.9	177.1	178.1	179.1	178.1	177.1	176.9	174.6	171.6	170.2	169.7
167.5°	175.7	175.8	176.3	176.6	176.3	175.8	175.7	174.3	172.3	171.3	170.9
170°	175.7	175.7	175.7	175.7	175.7	175.7	175.7	174.3	172.3	171.3	171.3
172.5°	174.8	174.7	174.3	174.0	174.3	174.7	174.8	173.6	172.1	171.3	171.3
175°	173.6	173.6	173.6	173.6	173.6	173.6	173.6	172.8	171.8	171.3	171.6
177.5°	173.3	173.2	172.8	172.4	172.8	173.2	173.3	172.7	171.9	171.6	171.7
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1205.8	1211.6	1215.1	1219.7	1231.2
5°	1159.6	1181.6	1188.5	1205.8	1226.6
7.5°	1058.0	1125.0	1143.4	1185.0	1217.4
10°	959.8	1026.8	1059.1	1157.3	1205.8
12.5°	910.1	949.4	971.4	1108.8	1189.6
15°	879.0	906.7	922.8	1044.1	1171.2
17.5°	854.7	874.3	885.9	980.6	1145.8
20°	839.7	848.9	859.3	934.4	1116.9
22.5°	829.3	823.5	831.6	902.1	1077.6
25°	822.4	800.4	809.7	876.6	1031.4
27.5°	828.1	779.6	783.1	853.5	982.9
30°	829.3	754.2	755.4	829.3	928.6
32.5°	821.2	727.6	728.8	799.3	867.4
35°	801.6	696.5	695.3	764.6	784.2
37.5°	775.0	663.0	663.0	726.5	693.0
40°	742.7	629.5	632.9	676.8	612.2
42.5°	703.4	593.7	598.3	611.0	552.1
45°	660.7	559.0	562.5	516.3	505.9
47.5°	613.3	523.2	524.4	428.5	490.9
50°	556.7	486.3	481.6	367.3	489.7
52.5°	507.0	445.8	432.0	332.6	444.7
55°	458.5	403.1	373.1	306.1	412.3
57.5°	415.8	347.7	318.8	274.9	405.4
60°	376.5	293.4	271.4	241.4	371.9
62.5°	344.2	252.9	248.3	218.3	337.3
65°	309.5	225.2	224.1	198.7	286.4
67.5°	276.0	206.7	205.6	180.2	218.3
70°	240.2	187.1	184.8	160.5	161.7
72.5°	203.3	165.2	162.9	144.4	134.0
75°	166.3	139.8	138.6	125.9	108.6
77.5°	130.5	110.9	113.2	101.6	79.7
80°	93.6	80.9	83.2	72.8	60.1
82.5°	62.4	53.1	55.4	46.2	40.4
85°	34.6	30.0	31.2	24.3	18.5
87.5°	16.2	13.9	13.9	9.2	5.8
90°	5.1	3.2	3.0	2.1	1.2
92.5°	31.4	22.3	20.3	12.5	4.6
95°	77.2	43.5	39.9	25.5	11.1
97.5°	104.0	47.7	44.6	31.9	19.2
100°	113.8	51.4	48.5	37.0	25.5
102.5°	118.3	55.0	52.3	41.6	30.8
105°	121.6	60.3	58.0	48.9	39.8
107.5°	122.2	68.1	66.0	57.5	49.0
110°	121.3	72.5	70.6	63.0	55.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	121.3	77.8	76.0	68.8	61.4
115°	122.4	85.9	84.2	77.5	70.7
117.5°	124.7	93.6	92.0	85.9	79.8
120°	126.6	98.1	96.6	90.9	85.2
122.5°	129.2	103.4	101.9	96.2	90.3
125°	132.8	110.3	109.0	103.6	98.3
127.5°	136.4	116.8	115.5	110.1	104.8
130°	139.0	121.2	119.7	114.0	108.3
132.5°	141.1	124.8	123.4	117.7	111.9
135°	143.5	129.0	127.7	122.4	117.2
137.5°	146.9	134.3	133.0	127.8	122.7
140°	149.1	137.9	136.7	131.9	127.1
142.5°	150.8	140.5	139.4	135.0	130.6
145°	153.2	144.6	143.6	139.8	135.9
147.5°	156.5	149.7	148.8	145.0	141.2
150°	158.3	152.4	151.5	148.1	144.7
152.5°	159.5	154.1	153.5	150.8	148.3
155°	162.0	157.9	157.5	155.5	153.6
157.5°	164.5	161.7	161.2	159.4	157.5
160°	165.7	163.5	163.1	161.7	160.2
162.5°	166.9	165.3	165.0	163.9	162.9
165°	168.7	167.9	167.7	166.7	165.8
167.5°	170.1	169.5	169.3	168.9	168.4
170°	171.2	171.2	171.1	170.6	170.2
172.5°	171.3	171.3	171.3	171.2	171.1
175°	172.0	172.4	172.4	172.4	172.4
177.5°	172.1	172.4	172.4	172.4	172.4
180°	172.4	172.4	172.4	172.4	172.4



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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	13.79	14.92	14.51	15.66	16.54	16.62	17.74	17.34	18.48	19.37
	3H	14.29	15.30	15.02	16.05	16.97	17.98	18.99	18.71	19.74	20.66
	4H	14.49	15.45	15.25	16.21	17.13	18.43	19.39	19.19	20.15	21.08
	6H	14.63	15.51	15.39	16.28	17.22	18.73	19.61	19.50	20.38	21.32
	8H	14.63	15.47	15.41	16.26	17.21	18.81	19.65	19.59	20.44	21.39
	12H	14.61	15.41	15.40	16.20	17.17	18.86	19.66	19.64	20.44	21.41
4H	2H	14.86	15.81	15.61	16.57	17.50	17.06	18.01	17.81	18.77	19.70
	3H	15.91	16.70	16.68	17.50	18.44	18.59	19.38	19.36	20.18	21.12
	4H	16.19	16.92	16.98	17.71	18.69	19.12	19.85	19.91	20.64	21.62
	6H	16.33	16.96	17.14	17.78	18.76	19.50	20.13	20.30	20.95	21.93
	8H	16.35	16.93	17.15	17.75	18.74	19.61	20.20	20.42	21.02	22.01
	12H	16.33	16.85	17.15	17.69	18.69	19.68	20.21	20.51	21.05	22.05
8H	4H	16.67	17.25	17.47	18.07	19.06	19.27	19.85	20.08	20.67	21.66
	6H	16.94	17.42	17.78	18.28	19.28	19.72	20.20	20.55	21.06	22.05
	8H	16.99	17.42	17.83	18.27	19.28	19.87	20.30	20.72	21.16	22.17
	12H	16.98	17.36	17.83	18.21	19.27	19.98	20.36	20.83	21.21	22.27
12H	4H	16.69	17.21	17.51	18.05	19.05	19.25	19.77	20.07	20.61	21.61
	6H	17.00	17.43	17.85	18.29	19.30	19.72	20.15	20.56	21.00	22.01
	8H	17.08	17.46	17.93	18.31	19.37	19.89	20.27	20.74	21.11	22.18