

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: P935463

Luminaire Tested: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935463
REPORT IS A COMBINATION OF REPORTS P933755 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

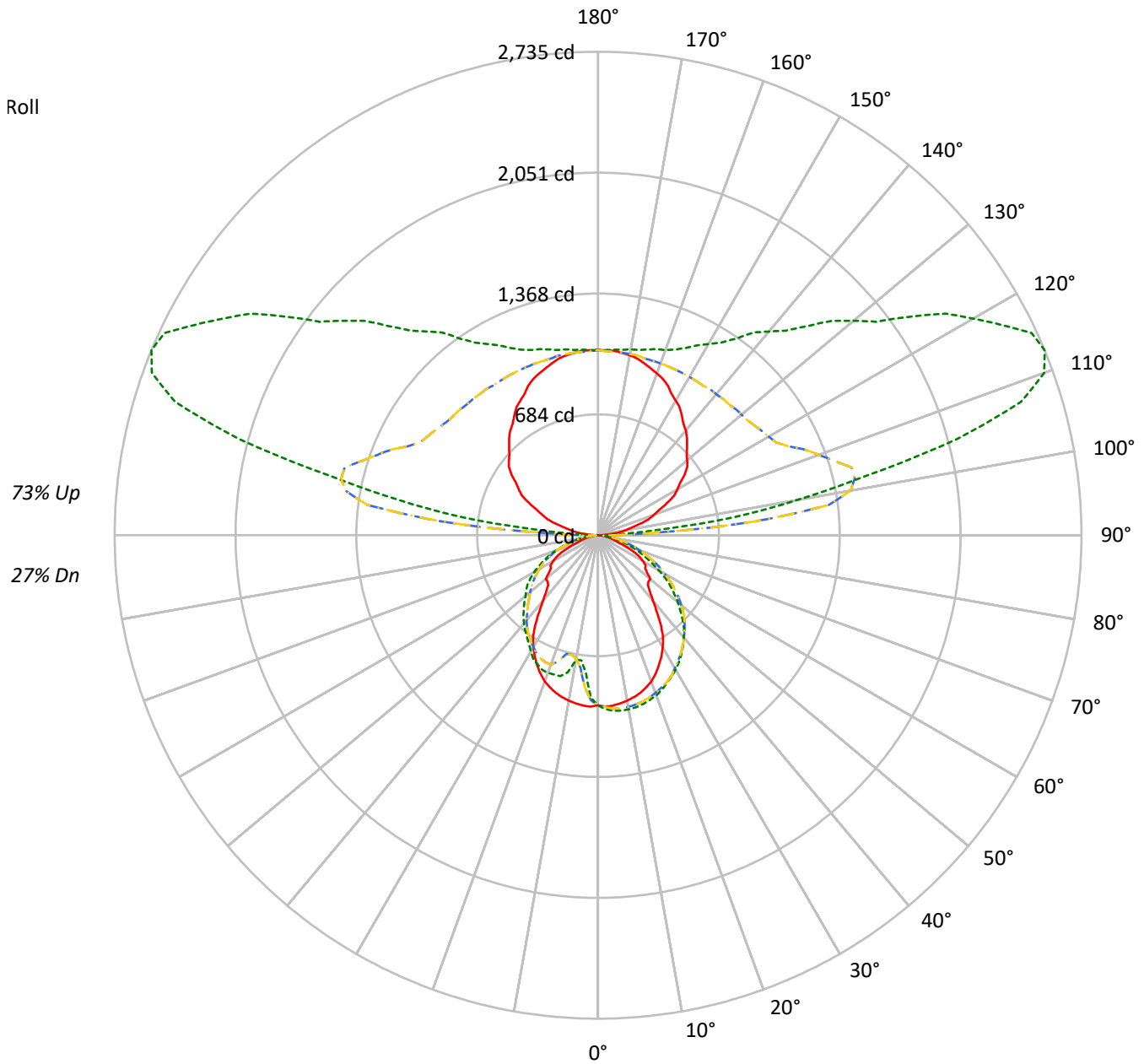
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9289.6 lumens
Efficiency: N/A
Efficacy: 130.1 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): 71.4
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: P935463
CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-4000K

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29				23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25				19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21				16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18				14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16				12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14				10
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12				9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11				8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10				7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9				7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5954	5954	5954	5954
5°	5996	6010	5996	4726
10°	5954	5920	5954	4233
15°	5888	5792	5888	4837
20°	5762	5640	5762	4847
25°	5507	5419	5507	4744
30°	5180	5235	5180	4519
35°	4615	5002	4615	4270
40°	3843	4728	3843	4084
45°	3432	4407	3432	3868
50°	3643	4025	3643	3652
55°	3424	3613	3424	3527
60°	3526	3068	3526	3230
65°	3191	2536	3191	2835
70°	2203	2021	2203	2377
75°	1926	1494	1926	1789
80°	1540	987	1540	1075
85°	870	523	870	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5263 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	0.9
10°-20°	246.7	2.7
20°-30°	381.3	4.1
30°-40°	455.2	4.9
40°-50°	457.9	4.9
50°-60°	398.4	4.3
60°-70°	282.5	3.0
70°-80°	149.4	1.6
80°-90°	41.2	0.4
90°-100°	510.6	5.5
100°-110°	1342.3	14.4
110°-120°	1391.8	15.0
120°-130°	1116.4	12.0
130°-140°	876.0	9.4
140°-150°	672.4	7.2
150°-160°	484.2	5.2
160°-170°	296.3	3.2
170°-180°	100.1	1.1
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0°-30°	714.9	7.7
0°-40°	1170.1	12.6
0°-60°	2026.4	21.8
0°-90°	2499.5	26.9
90°-120°	3244.7	34.9
90°-150°	5909.5	63.6
90°-180°	6790.0	73.1
0°-180°	9289.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	962	962	962	962	962	
5°	967	997	967	784	967	92
15°	923	988	923	825	923	260
25°	813	922	813	807	813	373
35°	618	822	618	702	618	383
45°	399	677	399	595	399	319
55°	325	500	325	488	325	299
65°	226	301	226	337	226	216
75°	86	143	86	171	86	90
85°	15	36	15	31	15	20
90°	7	27	7	27	7	6
95°	68	309	68	309	68	75
105°	242	2102	242	2102	242	256
115°	430	2706	430	2706	430	424
125°	598	2155	598	2155	598	531
135°	712	1672	712	1672	712	551
145°	826	1357	826	1357	826	517
155°	934	1168	934	1168	934	429
165°	1007	1088	1007	1088	1007	284
175°	1048	1054	1048	1054	1048	99
180°	1048	1048	1048	1048	1048	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	970.7	970.7	976.1	977.9	977.9	975.2	972.5	975.2	983.5	986.2	985.3
5°	967.0	974.3	984.4	986.2	988.0	987.1	985.3	987.1	996.1	998.0	998.9
7.5°	959.7	973.4	986.2	988.9	991.6	988.9	988.0	989.8	998.9	1000.7	1000.7
10°	950.6	969.8	984.4	986.2	988.9	986.2	986.2	989.8	998.9	1000.7	1001.7
12.5°	937.9	964.3	977.9	979.7	983.5	982.6	981.6	985.3	994.3	996.1	996.1
15°	923.4	954.3	967.0	968.9	975.2	973.4	973.4	977.0	987.1	989.8	988.9
17.5°	903.3	941.5	956.1	958.8	963.4	962.5	963.4	967.0	976.1	977.9	978.8
20°	880.5	924.3	941.5	944.3	948.8	948.8	948.8	953.4	962.5	966.1	966.1
22.5°	849.6	906.0	924.3	926.1	931.5	931.5	933.3	939.7	947.9	948.8	948.8
25°	813.1	886.0	901.4	907.0	912.4	915.1	917.8	921.5	924.3	923.4	924.3
27.5°	774.9	860.4	880.5	884.2	891.5	894.2	897.8	898.7	899.6	902.4	900.5
30°	732.1	825.0	855.0	858.6	870.5	872.3	868.7	870.5	875.0	876.9	878.7
32.5°	683.8	772.2	828.6	836.8	847.8	842.3	841.3	844.1	851.4	851.4	853.2
35°	618.3	731.2	804.1	811.3	819.5	813.1	816.8	817.7	822.2	825.0	824.1
37.5°	546.4	695.7	778.5	784.0	790.4	782.1	787.7	790.4	794.0	792.2	792.2
40°	482.6	640.1	748.5	752.1	757.6	751.2	756.7	758.5	760.3	758.5	757.6
42.5°	435.3	579.1	716.6	721.1	717.5	722.0	723.9	727.6	724.9	721.1	721.1
45°	398.8	562.7	682.0	687.5	682.0	689.3	692.0	692.0	683.8	682.0	681.1
47.5°	387.0	530.0	647.5	647.5	644.7	653.8	658.3	652.0	643.8	641.0	641.0
50°	386.1	493.5	600.0	596.4	609.2	620.1	615.5	609.2	602.8	592.8	592.8
52.5°	350.6	448.9	539.0	552.7	572.8	579.1	571.9	565.5	554.5	550.0	546.4
55°	325.0	402.4	483.5	510.9	531.8	539.9	526.4	519.9	503.5	500.8	499.0
57.5°	319.6	335.1	432.5	467.2	492.6	491.7	483.5	471.7	458.0	455.3	454.4
60°	293.2	242.2	377.9	418.9	445.2	442.5	435.3	424.3	411.6	409.8	408.0
62.5°	265.8	175.8	316.0	362.4	399.7	398.8	392.5	376.1	367.0	362.4	358.8
65°	225.8	147.5	224.9	301.4	355.1	356.9	343.3	331.5	321.4	316.0	315.1
67.5°	172.1	120.2	152.1	251.4	312.4	310.5	293.2	287.8	275.0	272.3	266.8
70°	127.4	80.1	105.6	203.9	270.5	265.8	252.3	245.8	234.0	227.6	224.0
72.5°	105.6	64.6	77.4	158.4	227.6	222.2	210.4	203.0	193.1	187.5	183.9
75°	85.6	68.2	59.2	117.5	184.8	181.2	170.3	163.0	154.8	147.5	148.4
77.5°	62.8	63.7	47.3	86.5	146.6	141.1	134.8	125.6	122.0	114.8	114.8
80°	47.3	50.1	35.5	59.2	105.6	105.6	100.2	93.8	87.4	83.8	83.8
82.5°	31.9	31.9	26.4	37.3	72.0	69.2	65.5	63.7	60.1	58.3	58.3
85°	14.6	18.2	16.4	22.7	39.2	41.0	41.0	39.2	38.3	36.4	37.3
87.5°	4.5	8.2	10.0	12.8	20.0	20.9	21.8	21.8	21.8	22.7	22.7
90°	7.1	12.7	18.3	19.6	30.9	45.9	53.4	47.4	35.6	26.7	26.7
92.5°	28.2	75.9	123.7	135.7	190.7	264.1	300.9	263.7	189.4	133.6	128.3
95°	67.5	155.0	242.4	264.3	469.3	742.8	879.5	784.8	595.4	453.4	437.3
97.5°	116.7	193.8	271.0	290.3	632.2	1088.1	1316.0	1256.2	1136.5	1046.7	1016.1
100°	154.7	224.7	294.6	312.1	691.5	1197.3	1450.2	1454.6	1463.4	1469.9	1433.4
102.5°	187.0	252.3	317.6	333.9	718.7	1231.7	1488.2	1564.4	1716.9	1831.2	1800.0
105°	241.9	297.2	352.4	366.2	738.8	1235.6	1484.0	1654.9	1996.7	2253.0	2236.2
107.5°	298.1	349.6	401.2	414.0	742.6	1180.6	1399.7	1638.1	2114.8	2472.4	2476.4
110°	336.0	382.5	429.0	440.7	736.9	1131.8	1329.3	1595.8	2128.8	2528.7	2546.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	373.3	417.6	462.0	473.1	737.2	1089.3	1265.3	1538.0	2083.6	2492.7	2519.6
115°	429.5	470.4	511.4	521.6	744.0	1040.5	1188.7	1451.5	1977.1	2371.2	2408.5
117.5°	485.1	522.3	559.4	568.7	757.8	1009.9	1136.0	1373.1	1847.4	2203.2	2244.4
120°	517.4	552.4	587.4	596.1	769.0	999.6	1114.9	1331.6	1764.9	2089.9	2130.1
122.5°	549.1	584.4	619.7	628.5	785.2	994.2	1098.8	1293.9	1684.1	1976.8	2016.3
125°	597.5	629.7	661.9	669.9	807.0	989.8	1081.2	1246.9	1578.4	1827.1	1863.5
127.5°	636.9	669.4	701.9	710.0	828.9	987.3	1066.5	1208.8	1493.4	1706.9	1737.6
130°	658.0	693.0	727.9	736.7	844.7	988.7	1060.8	1187.5	1440.8	1630.9	1659.3
132.5°	679.8	714.8	749.7	758.5	857.6	989.8	1055.9	1169.3	1396.1	1566.2	1591.6
135°	712.1	744.0	775.8	783.8	871.7	988.9	1047.5	1142.4	1332.4	1474.9	1496.8
137.5°	745.1	776.7	808.3	816.2	892.8	995.0	1046.0	1126.3	1286.9	1407.3	1425.3
140°	772.6	801.6	830.7	837.9	905.6	995.9	1041.1	1110.5	1249.2	1353.2	1370.1
142.5°	793.6	820.5	847.4	854.1	916.5	999.6	1041.1	1102.0	1223.9	1315.3	1329.8
145°	826.0	849.4	872.8	878.7	930.5	999.6	1034.1	1083.9	1183.6	1258.4	1269.3
147.5°	858.4	881.2	904.0	909.7	951.1	1006.4	1034.1	1073.2	1151.7	1210.6	1219.6
150°	879.5	900.1	920.6	925.8	961.9	1010.0	1034.1	1067.2	1133.4	1183.1	1190.5
152.5°	901.2	916.8	932.5	936.4	969.0	1012.3	1034.1	1062.3	1118.9	1161.3	1166.8
155°	933.6	945.2	956.7	959.6	984.4	1017.5	1034.1	1056.6	1101.6	1135.3	1139.1
157.5°	957.5	968.7	979.9	982.7	999.8	1022.7	1034.1	1051.5	1086.6	1112.8	1115.3
160°	973.6	982.4	991.2	993.3	1006.9	1025.0	1034.1	1049.1	1079.0	1101.6	1103.0
162.5°	989.8	996.3	1002.9	1004.5	1014.4	1027.5	1034.1	1046.7	1072.0	1091.0	1092.4
165°	1007.4	1013.3	1019.3	1020.8	1025.2	1031.1	1034.1	1043.1	1061.3	1074.9	1076.3
167.5°	1023.6	1026.4	1029.2	1029.9	1033.6	1038.6	1041.1	1047.1	1058.9	1067.8	1068.5
170°	1034.1	1036.9	1039.7	1040.4	1040.7	1040.9	1041.1	1047.1	1058.9	1067.8	1067.8
172.5°	1039.7	1040.3	1040.9	1041.1	1041.1	1041.1	1041.1	1045.8	1055.1	1062.2	1061.7
175°	1047.5	1047.5	1047.5	1047.5	1045.4	1042.6	1041.1	1044.1	1050.1	1054.5	1054.5
177.5°	1047.5	1047.5	1047.5	1047.5	1045.8	1043.6	1042.5	1044.8	1049.5	1053.1	1052.4
180°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	987.1	984.4	987.1	985.3	986.2	983.5	975.2	972.5	975.2	977.9	977.9
5°	998.9	997.0	998.9	998.9	998.0	996.1	987.1	985.3	987.1	988.0	986.2
7.5°	1002.6	999.8	1002.6	1000.7	1000.7	998.9	989.8	988.0	988.9	991.6	988.9
10°	1002.6	999.8	1002.6	1001.7	1000.7	998.9	989.8	986.2	986.2	988.9	986.2
12.5°	998.0	996.1	998.0	996.1	996.1	994.3	985.3	981.6	982.6	983.5	979.7
15°	990.7	988.0	990.7	988.9	989.8	987.1	977.0	973.4	973.4	975.2	968.9
17.5°	979.7	976.1	979.7	978.8	977.9	976.1	967.0	963.4	962.5	963.4	958.8
20°	967.0	964.3	967.0	966.1	966.1	962.5	953.4	948.8	948.8	948.8	944.3
22.5°	947.0	944.3	947.0	948.8	948.8	947.9	939.7	933.3	931.5	931.5	926.1
25°	924.3	921.5	924.3	924.3	923.4	924.3	921.5	917.8	915.1	912.4	907.0
27.5°	902.4	900.5	902.4	900.5	902.4	899.6	898.7	897.8	894.2	891.5	884.2
30°	880.5	878.7	880.5	878.7	876.9	875.0	870.5	868.7	872.3	870.5	858.6
32.5°	853.2	851.4	853.2	853.2	851.4	851.4	844.1	841.3	842.3	847.8	836.8
35°	825.0	822.2	825.0	824.1	825.0	822.2	817.7	816.8	813.1	819.5	811.3
37.5°	792.2	789.5	792.2	792.2	792.2	794.0	790.4	787.7	782.1	790.4	784.0
40°	758.5	754.9	758.5	757.6	758.5	760.3	758.5	756.7	751.2	757.6	752.1
42.5°	720.2	719.3	720.2	721.1	721.1	724.9	727.6	723.9	722.0	717.5	721.1
45°	679.3	677.4	679.3	681.1	682.0	683.8	692.0	692.0	689.3	682.0	687.5
47.5°	635.6	631.0	635.6	641.0	641.0	643.8	652.0	658.3	653.8	644.7	647.5
50°	589.2	590.1	589.2	592.8	592.8	602.8	609.2	615.5	620.1	609.2	596.4
52.5°	543.6	542.7	543.6	546.4	550.0	554.5	565.5	571.9	579.1	572.8	552.7
55°	498.1	499.9	498.1	499.0	500.8	503.5	519.9	526.4	539.9	531.8	510.9
57.5°	452.6	449.9	452.6	454.4	455.3	458.0	471.7	483.5	491.7	492.6	467.2
60°	399.7	396.1	399.7	408.0	409.8	411.6	424.3	435.3	442.5	445.2	418.9
62.5°	353.3	346.9	353.3	358.8	362.4	367.0	376.1	392.5	398.8	399.7	362.4
65°	304.1	301.4	304.1	315.1	316.0	321.4	331.5	343.3	356.9	355.1	301.4
67.5°	259.5	259.5	259.5	266.8	272.3	275.0	287.8	293.2	310.5	312.4	251.4
70°	218.5	217.6	218.5	224.0	227.6	234.0	245.8	252.3	265.8	270.5	203.9
72.5°	179.4	178.5	179.4	183.9	187.5	193.1	203.0	210.4	222.2	227.6	158.4
75°	144.8	142.9	144.8	148.4	147.5	154.8	163.0	170.3	181.2	184.8	117.5
77.5°	111.1	111.1	111.1	114.8	114.8	122.0	125.6	134.8	141.1	146.6	86.5
80°	82.8	81.9	82.8	83.8	83.8	87.4	93.8	100.2	105.6	105.6	59.2
82.5°	58.3	56.5	58.3	58.3	58.3	60.1	63.7	65.5	69.2	72.0	37.3
85°	36.4	36.4	36.4	37.3	36.4	38.3	39.2	41.0	41.0	39.2	22.7
87.5°	23.7	22.7	23.7	22.7	22.7	21.8	21.8	21.8	20.9	20.0	12.8
90°	26.7	26.7	26.7	26.7	26.7	35.6	47.4	53.4	45.9	30.9	19.6
92.5°	107.0	85.7	107.0	128.3	133.6	189.4	263.7	300.9	264.1	190.7	135.7
95°	372.9	308.6	372.9	437.3	453.4	595.4	784.8	879.5	742.8	469.3	264.3
97.5°	893.7	771.2	893.7	1016.1	1046.7	1136.5	1256.2	1316.0	1088.1	632.2	290.3
100°	1287.6	1141.7	1287.6	1433.4	1469.9	1463.4	1454.6	1450.2	1197.3	691.5	312.1
102.5°	1675.0	1550.1	1675.0	1800.0	1831.2	1716.9	1564.4	1488.2	1231.7	718.7	333.9
105°	2169.0	2101.9	2169.0	2236.2	2253.0	1996.7	1654.9	1484.0	1235.6	738.8	366.2
107.5°	2492.6	2508.9	2492.6	2476.4	2472.4	2114.8	1638.1	1399.7	1180.6	742.6	414.0
110°	2616.1	2686.1	2616.1	2546.1	2528.7	2128.8	1595.8	1329.3	1131.8	736.9	440.7



TEST NUMBER: P935463

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2627.0	2734.6	2627.0	2519.6	2492.7	2083.6	1538.0	1265.3	1089.3	737.2	473.1
115°	2557.4	2706.4	2557.4	2408.5	2371.2	1977.1	1451.5	1188.7	1040.5	744.0	521.6
117.5°	2409.7	2575.0	2409.7	2244.4	2203.2	1847.4	1373.1	1136.0	1009.9	757.8	568.7
120°	2290.7	2451.3	2290.7	2130.1	2089.9	1764.9	1331.6	1114.9	999.6	769.0	596.1
122.5°	2174.7	2333.1	2174.7	2016.3	1976.8	1684.1	1293.9	1098.8	994.2	785.2	628.5
125°	2009.5	2155.4	2009.5	1863.5	1827.1	1578.4	1246.9	1081.2	989.8	807.0	669.9
127.5°	1860.7	1983.8	1860.7	1737.6	1706.9	1493.4	1208.8	1066.5	987.3	828.9	710.0
130°	1773.1	1886.8	1773.1	1659.3	1630.9	1440.8	1187.5	1060.8	988.7	844.7	736.7
132.5°	1693.6	1795.4	1693.6	1591.6	1566.2	1396.1	1169.3	1055.9	989.8	857.6	758.5
135°	1584.6	1672.4	1584.6	1496.8	1474.9	1332.4	1142.4	1047.5	988.9	871.7	783.8
137.5°	1497.1	1569.0	1497.1	1425.3	1407.3	1286.9	1126.3	1046.0	995.0	892.8	816.2
140°	1437.2	1504.4	1437.2	1370.1	1353.2	1249.2	1110.5	1041.1	995.9	905.6	837.9
142.5°	1387.5	1445.4	1387.5	1329.8	1315.3	1223.9	1102.0	1041.1	999.6	916.5	854.1
145°	1313.0	1356.7	1313.0	1269.3	1258.4	1183.6	1083.9	1034.1	999.6	930.5	878.7
147.5°	1255.9	1292.1	1255.9	1219.6	1210.6	1151.7	1073.2	1034.1	1006.4	951.1	909.7
150°	1219.9	1249.2	1219.9	1190.5	1183.1	1133.4	1067.2	1034.1	1010.0	961.9	925.8
152.5°	1189.0	1211.2	1189.0	1166.8	1161.3	1118.9	1062.3	1034.1	1012.3	969.0	936.4
155°	1153.7	1168.4	1153.7	1139.1	1135.3	1101.6	1056.6	1034.1	1017.5	984.4	959.6
157.5°	1125.7	1136.0	1125.7	1115.3	1112.8	1086.6	1051.5	1034.1	1022.7	999.8	982.7
160°	1109.0	1114.9	1109.0	1103.0	1101.6	1079.0	1049.1	1034.1	1025.0	1006.9	993.3
162.5°	1098.1	1103.7	1098.1	1092.4	1091.0	1072.0	1046.7	1034.1	1027.5	1014.4	1004.5
165°	1082.3	1088.2	1082.3	1076.3	1074.9	1061.3	1043.1	1034.1	1031.1	1025.2	1020.8
167.5°	1070.9	1073.4	1070.9	1068.5	1067.8	1058.9	1047.1	1041.1	1038.6	1033.6	1029.9
170°	1067.8	1067.8	1067.8	1067.8	1067.8	1058.9	1047.1	1041.1	1040.9	1040.7	1040.4
172.5°	1059.5	1057.3	1059.5	1061.7	1062.2	1055.1	1045.8	1041.1	1041.1	1041.1	1041.1
175°	1054.5	1054.5	1054.5	1054.5	1054.5	1050.1	1044.1	1041.1	1042.6	1045.4	1047.5
177.5°	1050.0	1047.5	1050.0	1052.4	1053.1	1049.5	1044.8	1042.5	1043.6	1045.8	1047.5
180°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5



TEST NUMBER: P935463

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	976.1	970.7	970.7	961.6	957.9	955.2	950.6	937.0	933.3	929.7	935.1
5°	984.4	974.3	967.0	950.6	937.0	931.5	914.2	881.4	859.5	843.2	834.1
7.5°	986.2	973.4	959.7	934.2	901.4	886.9	834.1	774.0	757.6	743.0	733.9
10°	984.4	969.8	950.6	912.4	835.0	809.5	756.7	717.5	707.5	704.8	707.5
12.5°	977.9	964.3	937.9	874.1	765.8	748.5	717.5	694.8	692.9	697.5	722.0
15°	967.0	954.3	923.4	823.2	727.6	714.8	692.9	684.8	694.8	726.7	800.4
17.5°	956.1	941.5	903.3	773.1	698.4	689.3	673.8	690.2	746.7	789.5	814.0
20°	941.5	924.3	880.5	736.6	677.4	669.3	661.9	735.7	778.5	794.0	807.7
22.5°	924.3	906.0	849.6	711.2	655.6	649.3	653.8	761.2	778.5	789.5	801.3
25°	901.4	886.0	813.1	691.1	638.3	631.0	648.4	758.5	768.5	771.3	794.9
27.5°	880.5	860.4	774.9	672.9	617.4	614.6	652.9	746.7	754.0	756.7	782.1
30°	855.0	825.0	732.1	653.8	595.5	594.6	653.8	732.1	730.3	737.5	763.1
32.5°	828.6	772.2	683.8	630.1	574.6	573.7	647.5	710.3	708.5	718.4	737.5
35°	804.1	731.2	618.3	602.8	548.2	549.1	631.9	684.8	685.7	694.8	706.6
37.5°	778.5	695.7	546.4	572.8	522.6	522.6	611.0	661.0	659.2	661.9	678.4
40°	748.5	640.1	482.6	533.6	499.0	496.3	585.5	635.6	629.2	628.3	651.1
42.5°	716.6	579.1	435.3	481.7	471.7	468.1	554.5	604.6	592.8	595.5	624.7
45°	682.0	562.7	398.8	407.1	443.4	440.7	520.8	569.1	560.9	568.2	598.2
47.5°	647.5	530.0	387.0	337.8	413.4	412.5	483.5	534.5	530.0	537.2	569.1
50°	600.0	493.5	386.1	289.6	379.7	383.3	438.9	500.8	500.8	507.2	540.9
52.5°	539.0	448.9	350.6	262.2	340.5	351.5	399.7	471.7	473.5	479.9	509.9
55°	483.5	402.4	325.0	241.3	294.1	317.8	361.5	441.6	445.2	451.7	478.9
57.5°	432.5	335.1	319.6	216.7	251.4	274.1	327.8	412.5	414.3	419.8	446.2
60°	377.9	242.2	293.2	190.3	214.0	231.3	296.8	377.9	384.2	387.9	410.7
62.5°	316.0	175.8	265.8	172.1	195.8	199.4	271.4	345.1	353.3	356.0	369.7
65°	224.9	147.5	225.8	156.6	176.7	177.6	244.0	311.4	318.7	323.2	333.3
67.5°	152.1	120.2	172.1	142.0	162.1	163.0	217.6	272.3	282.3	285.9	292.3
70°	105.6	80.1	127.4	126.5	145.7	147.5	189.4	236.8	245.8	248.6	252.3
72.5°	77.4	64.6	105.6	113.8	128.4	130.3	160.3	196.7	205.8	208.5	210.4
75°	59.2	68.2	85.6	99.3	109.3	110.2	131.2	160.3	166.6	168.5	169.4
77.5°	47.3	63.7	62.8	80.1	89.2	87.4	102.9	123.8	129.3	129.3	129.3
80°	35.5	50.1	47.3	57.4	65.5	63.7	73.8	88.3	90.2	92.0	91.1
82.5°	26.4	31.9	31.9	36.4	43.7	41.9	49.2	57.4	57.4	57.4	59.2
85°	16.4	18.2	14.6	19.1	24.6	23.7	27.3	31.0	31.9	31.9	30.1
87.5°	10.0	8.2	4.5	7.2	11.0	11.0	12.8	13.7	12.8	12.8	12.8
90°	18.3	12.7	7.1	12.7	18.3	19.6	30.9	45.9	53.4	47.4	35.6
92.5°	123.7	75.9	28.2	75.9	123.7	135.7	190.7	264.1	300.9	263.7	189.4
95°	242.4	155.0	67.5	155.0	242.4	264.3	469.3	742.8	879.5	784.8	595.4
97.5°	271.0	193.8	116.7	193.8	271.0	290.3	632.2	1088.1	1316.0	1256.2	1136.5
100°	294.6	224.7	154.7	224.7	294.6	312.1	691.5	1197.3	1450.2	1454.6	1463.4
102.5°	317.6	252.3	187.0	252.3	317.6	333.9	718.7	1231.7	1488.2	1564.4	1716.9
105°	352.4	297.2	241.9	297.2	352.4	366.2	738.8	1235.6	1484.0	1654.9	1996.7
107.5°	401.2	349.6	298.1	349.6	401.2	414.0	742.6	1180.6	1399.7	1638.1	2114.8
110°	429.0	382.5	336.0	382.5	429.0	440.7	736.9	1131.8	1329.3	1595.8	2128.8



TEST NUMBER: P935463

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	462.0	417.6	373.3	417.6	462.0	473.1	737.2	1089.3	1265.3	1538.0	2083.6
115°	511.4	470.4	429.5	470.4	511.4	521.6	744.0	1040.5	1188.7	1451.5	1977.1
117.5°	559.4	522.3	485.1	522.3	559.4	568.7	757.8	1009.9	1136.0	1373.1	1847.4
120°	587.4	552.4	517.4	552.4	587.4	596.1	769.0	999.6	1114.9	1331.6	1764.9
122.5°	619.7	584.4	549.1	584.4	619.7	628.5	785.2	994.2	1098.8	1293.9	1684.1
125°	661.9	629.7	597.5	629.7	661.9	669.9	807.0	989.8	1081.2	1246.9	1578.4
127.5°	701.9	669.4	636.9	669.4	701.9	710.0	828.9	987.3	1066.5	1208.8	1493.4
130°	727.9	693.0	658.0	693.0	727.9	736.7	844.7	988.7	1060.8	1187.5	1440.8
132.5°	749.7	714.8	679.8	714.8	749.7	758.5	857.6	989.8	1055.9	1169.3	1396.1
135°	775.8	744.0	712.1	744.0	775.8	783.8	871.7	988.9	1047.5	1142.4	1332.4
137.5°	808.3	776.7	745.1	776.7	808.3	816.2	892.8	995.0	1046.0	1126.3	1286.9
140°	830.7	801.6	772.6	801.6	830.7	837.9	905.6	995.9	1041.1	1110.5	1249.2
142.5°	847.4	820.5	793.6	820.5	847.4	854.1	916.5	999.6	1041.1	1102.0	1223.9
145°	872.8	849.4	826.0	849.4	872.8	878.7	930.5	999.6	1034.1	1083.9	1183.6
147.5°	904.0	881.2	858.4	881.2	904.0	909.7	951.1	1006.4	1034.1	1073.2	1151.7
150°	920.6	900.1	879.5	900.1	920.6	925.8	961.9	1010.0	1034.1	1067.2	1133.4
152.5°	932.5	916.8	901.2	916.8	932.5	936.4	969.0	1012.3	1034.1	1062.3	1118.9
155°	956.7	945.2	933.6	945.2	956.7	959.6	984.4	1017.5	1034.1	1056.6	1101.6
157.5°	979.9	968.7	957.5	968.7	979.9	982.7	999.8	1022.7	1034.1	1051.5	1086.6
160°	991.2	982.4	973.6	982.4	991.2	993.3	1006.9	1025.0	1034.1	1049.1	1079.0
162.5°	1002.9	996.3	989.8	996.3	1002.9	1004.5	1014.4	1027.5	1034.1	1046.7	1072.0
165°	1019.3	1013.3	1007.4	1013.3	1019.3	1020.8	1025.2	1031.1	1034.1	1043.1	1061.3
167.5°	1029.2	1026.4	1023.6	1026.4	1029.2	1029.9	1033.6	1038.6	1041.1	1047.1	1058.9
170°	1039.7	1036.9	1034.1	1036.9	1039.7	1040.4	1040.7	1040.9	1041.1	1047.1	1058.9
172.5°	1040.9	1040.3	1039.7	1040.3	1040.9	1041.1	1041.1	1041.1	1041.1	1045.8	1055.1
175°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1045.4	1042.6	1041.1	1044.1	1050.1
177.5°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1045.8	1043.6	1042.5	1044.8	1049.5
180°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5



TEST NUMBER: P935463

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	928.8	926.1	929.7	919.6	929.7	926.1	928.8	935.1	929.7	933.3	937.0
5°	815.0	810.4	795.8	784.0	795.8	810.4	815.0	834.1	843.2	859.5	881.4
7.5°	728.5	724.9	721.1	713.9	721.1	724.9	728.5	733.9	743.0	757.6	774.0
10°	709.4	710.3	715.7	714.8	715.7	710.3	709.4	707.5	704.8	707.5	717.5
12.5°	758.5	766.7	796.7	794.9	796.7	766.7	758.5	722.0	697.5	692.9	694.8
15°	815.0	817.7	824.1	825.0	824.1	817.7	815.0	800.4	726.7	694.8	684.8
17.5°	820.4	821.3	825.9	825.9	825.9	821.3	820.4	814.0	789.5	746.7	690.2
20°	815.9	817.7	826.8	828.6	826.8	817.7	815.9	807.7	794.0	778.5	735.7
22.5°	814.0	817.7	825.0	824.1	825.0	817.7	814.0	801.3	789.5	778.5	761.2
25°	805.0	805.0	805.9	806.8	805.9	805.0	805.0	794.9	771.3	768.5	758.5
27.5°	785.9	787.7	793.1	792.2	793.1	787.7	785.9	782.1	756.7	754.0	746.7
30°	768.5	766.7	762.1	758.5	762.1	766.7	768.5	763.1	737.5	730.3	732.1
32.5°	739.4	734.8	730.3	727.6	730.3	734.8	739.4	737.5	718.4	708.5	710.3
35°	704.8	705.7	704.8	702.0	704.8	705.7	704.8	706.6	694.8	685.7	684.8
37.5°	680.2	682.0	681.1	677.4	681.1	682.0	680.2	678.4	661.9	659.2	661.0
40°	654.7	655.6	654.7	652.0	654.7	655.6	654.7	651.1	628.3	629.2	635.6
42.5°	630.1	629.2	626.5	624.7	626.5	629.2	630.1	624.7	595.5	592.8	604.6
45°	601.9	602.8	597.3	594.6	597.3	602.8	601.9	598.2	568.2	560.9	569.1
47.5°	573.7	573.7	569.1	566.4	569.1	573.7	573.7	569.1	537.2	530.0	534.5
50°	543.6	542.7	536.3	535.4	536.3	542.7	543.6	540.9	507.2	500.8	500.8
52.5°	509.0	509.0	509.9	511.8	509.9	509.0	509.0	509.9	479.9	473.5	471.7
55°	478.9	479.9	486.3	488.1	486.3	479.9	478.9	478.9	451.7	445.2	441.6
57.5°	448.0	448.0	452.6	452.6	452.6	448.0	448.0	446.2	419.8	414.3	412.5
60°	412.5	414.3	417.9	417.0	417.9	414.3	412.5	410.7	387.9	384.2	377.9
62.5°	375.2	377.0	377.9	376.1	377.9	377.0	375.2	369.7	356.0	353.3	345.1
65°	336.0	337.8	338.7	336.9	338.7	337.8	336.0	333.3	323.2	318.7	311.4
67.5°	295.9	295.0	294.1	297.8	294.1	295.0	295.9	292.3	285.9	282.3	272.3
70°	255.0	255.0	254.1	255.9	254.1	255.0	255.0	252.3	248.6	245.8	236.8
72.5°	211.3	210.4	214.0	211.3	214.0	210.4	211.3	210.4	208.5	205.8	196.7
75°	168.5	170.3	168.5	171.2	168.5	170.3	168.5	169.4	168.5	166.6	160.3
77.5°	128.4	130.3	128.4	128.4	128.4	130.3	128.4	129.3	129.3	129.3	123.8
80°	91.1	90.2	90.2	89.2	90.2	90.2	91.1	91.1	92.0	90.2	88.3
82.5°	58.3	57.4	57.4	59.2	57.4	57.4	58.3	59.2	57.4	57.4	57.4
85°	31.9	32.8	31.0	31.0	31.0	32.8	31.9	30.1	31.9	31.9	31.0
87.5°	11.9	11.0	11.0	11.0	11.0	11.0	11.9	12.8	12.8	12.8	13.7
90°	26.7	26.7	26.7	26.7	26.7	26.7	26.7	35.6	47.4	53.4	45.9
92.5°	133.6	128.3	107.0	85.7	107.0	128.3	133.6	189.4	263.7	300.9	264.1
95°	453.4	437.3	372.9	308.6	372.9	437.3	453.4	595.4	784.8	879.5	742.8
97.5°	1046.7	1016.1	893.7	771.2	893.7	1016.1	1046.7	1136.5	1256.2	1316.0	1088.1
100°	1469.9	1433.4	1287.6	1141.7	1287.6	1433.4	1469.9	1463.4	1454.6	1450.2	1197.3
102.5°	1831.2	1800.0	1675.0	1550.1	1675.0	1800.0	1831.2	1716.9	1564.4	1488.2	1231.7
105°	2253.0	2236.2	2169.0	2101.9	2169.0	2236.2	2253.0	1996.7	1654.9	1484.0	1235.6
107.5°	2472.4	2476.4	2492.6	2508.9	2492.6	2476.4	2472.4	2114.8	1638.1	1399.7	1180.6
110°	2528.7	2546.1	2616.1	2686.1	2616.1	2546.1	2528.7	2128.8	1595.8	1329.3	1131.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2492.7	2519.6	2627.0	2734.6	2627.0	2519.6	2492.7	2083.6	1538.0	1265.3	1089.3
115°	2371.2	2408.5	2557.4	2706.4	2557.4	2408.5	2371.2	1977.1	1451.5	1188.7	1040.5
117.5°	2203.2	2244.4	2409.7	2575.0	2409.7	2244.4	2203.2	1847.4	1373.1	1136.0	1009.9
120°	2089.9	2130.1	2290.7	2451.3	2290.7	2130.1	2089.9	1764.9	1331.6	1114.9	999.6
122.5°	1976.8	2016.3	2174.7	2333.1	2174.7	2016.3	1976.8	1684.1	1293.9	1098.8	994.2
125°	1827.1	1863.5	2009.5	2155.4	2009.5	1863.5	1827.1	1578.4	1246.9	1081.2	989.8
127.5°	1706.9	1737.6	1860.7	1983.8	1860.7	1737.6	1706.9	1493.4	1208.8	1066.5	987.3
130°	1630.9	1659.3	1773.1	1886.8	1773.1	1659.3	1630.9	1440.8	1187.5	1060.8	988.7
132.5°	1566.2	1591.6	1693.6	1795.4	1693.6	1591.6	1566.2	1396.1	1169.3	1055.9	989.8
135°	1474.9	1496.8	1584.6	1672.4	1584.6	1496.8	1474.9	1332.4	1142.4	1047.5	988.9
137.5°	1407.3	1425.3	1497.1	1569.0	1497.1	1425.3	1407.3	1286.9	1126.3	1046.0	995.0
140°	1353.2	1370.1	1437.2	1504.4	1437.2	1370.1	1353.2	1249.2	1110.5	1041.1	995.9
142.5°	1315.3	1329.8	1387.5	1445.4	1387.5	1329.8	1315.3	1223.9	1102.0	1041.1	999.6
145°	1258.4	1269.3	1313.0	1356.7	1313.0	1269.3	1258.4	1183.6	1083.9	1034.1	999.6
147.5°	1210.6	1219.6	1255.9	1292.1	1255.9	1219.6	1210.6	1151.7	1073.2	1034.1	1006.4
150°	1183.1	1190.5	1219.9	1249.2	1219.9	1190.5	1183.1	1133.4	1067.2	1034.1	1010.0
152.5°	1161.3	1166.8	1189.0	1211.2	1189.0	1166.8	1161.3	1118.9	1062.3	1034.1	1012.3
155°	1135.3	1139.1	1153.7	1168.4	1153.7	1139.1	1135.3	1101.6	1056.6	1034.1	1017.5
157.5°	1112.8	1115.3	1125.7	1136.0	1125.7	1115.3	1112.8	1086.6	1051.5	1034.1	1022.7
160°	1101.6	1103.0	1109.0	1114.9	1109.0	1103.0	1101.6	1079.0	1049.1	1034.1	1025.0
162.5°	1091.0	1092.4	1098.1	1103.7	1098.1	1092.4	1091.0	1072.0	1046.7	1034.1	1027.5
165°	1074.9	1076.3	1082.3	1088.2	1082.3	1076.3	1074.9	1061.3	1043.1	1034.1	1031.1
167.5°	1067.8	1068.5	1070.9	1073.4	1070.9	1068.5	1067.8	1058.9	1047.1	1041.1	1038.6
170°	1067.8	1067.8	1067.8	1067.8	1067.8	1067.8	1067.8	1058.9	1047.1	1041.1	1040.9
172.5°	1062.2	1061.7	1059.5	1057.3	1059.5	1061.7	1062.2	1055.1	1045.8	1041.1	1041.1
175°	1054.5	1054.5	1054.5	1054.5	1054.5	1054.5	1054.5	1050.1	1044.1	1041.1	1042.6
177.5°	1053.1	1052.4	1050.0	1047.5	1050.0	1052.4	1053.1	1049.5	1044.8	1042.5	1043.6
180°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	962.5	962.5	962.5	962.5	962.5
2.5°	950.6	955.2	957.9	961.6	970.7
5°	914.2	931.5	937.0	950.6	967.0
7.5°	834.1	886.9	901.4	934.2	959.7
10°	756.7	809.5	835.0	912.4	950.6
12.5°	717.5	748.5	765.8	874.1	937.9
15°	692.9	714.8	727.6	823.2	923.4
17.5°	673.8	689.3	698.4	773.1	903.3
20°	661.9	669.3	677.4	736.6	880.5
22.5°	653.8	649.3	655.6	711.2	849.6
25°	648.4	631.0	638.3	691.1	813.1
27.5°	652.9	614.6	617.4	672.9	774.9
30°	653.8	594.6	595.5	653.8	732.1
32.5°	647.5	573.7	574.6	630.1	683.8
35°	631.9	549.1	548.2	602.8	618.3
37.5°	611.0	522.6	522.6	572.8	546.4
40°	585.5	496.3	499.0	533.6	482.6
42.5°	554.5	468.1	471.7	481.7	435.3
45°	520.8	440.7	443.4	407.1	398.8
47.5°	483.5	412.5	413.4	337.8	387.0
50°	438.9	383.3	379.7	289.6	386.1
52.5°	399.7	351.5	340.5	262.2	350.6
55°	361.5	317.8	294.1	241.3	325.0
57.5°	327.8	274.1	251.4	216.7	319.6
60°	296.8	231.3	214.0	190.3	293.2
62.5°	271.4	199.4	195.8	172.1	265.8
65°	244.0	177.6	176.7	156.6	225.8
67.5°	217.6	163.0	162.1	142.0	172.1
70°	189.4	147.5	145.7	126.5	127.4
72.5°	160.3	130.3	128.4	113.8	105.6
75°	131.2	110.2	109.3	99.3	85.6
77.5°	102.9	87.4	89.2	80.1	62.8
80°	73.8	63.7	65.5	57.4	47.3
82.5°	49.2	41.9	43.7	36.4	31.9
85°	27.3	23.7	24.6	19.1	14.6
87.5°	12.8	11.0	11.0	7.2	4.5
90°	30.9	19.6	18.3	12.7	7.1
92.5°	190.7	135.7	123.7	75.9	28.2
95°	469.3	264.3	242.4	155.0	67.5
97.5°	632.2	290.3	271.0	193.8	116.7
100°	691.5	312.1	294.6	224.7	154.7
102.5°	718.7	333.9	317.6	252.3	187.0
105°	738.8	366.2	352.4	297.2	241.9
107.5°	742.6	414.0	401.2	349.6	298.1
110°	736.9	440.7	429.0	382.5	336.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	737.2	473.1	462.0	417.6	373.3
115°	744.0	521.6	511.4	470.4	429.5
117.5°	757.8	568.7	559.4	522.3	485.1
120°	769.0	596.1	587.4	552.4	517.4
122.5°	785.2	628.5	619.7	584.4	549.1
125°	807.0	669.9	661.9	629.7	597.5
127.5°	828.9	710.0	701.9	669.4	636.9
130°	844.7	736.7	727.9	693.0	658.0
132.5°	857.6	758.5	749.7	714.8	679.8
135°	871.7	783.8	775.8	744.0	712.1
137.5°	892.8	816.2	808.3	776.7	745.1
140°	905.6	837.9	830.7	801.6	772.6
142.5°	916.5	854.1	847.4	820.5	793.6
145°	930.5	878.7	872.8	849.4	826.0
147.5°	951.1	909.7	904.0	881.2	858.4
150°	961.9	925.8	920.6	900.1	879.5
152.5°	969.0	936.4	932.5	916.8	901.2
155°	984.4	959.6	956.7	945.2	933.6
157.5°	999.8	982.7	979.9	968.7	957.5
160°	1006.9	993.3	991.2	982.4	973.6
162.5°	1014.4	1004.5	1002.9	996.3	989.8
165°	1025.2	1020.8	1019.3	1013.3	1007.4
167.5°	1033.6	1029.9	1029.2	1026.4	1023.6
170°	1040.7	1040.4	1039.7	1036.9	1034.1
172.5°	1041.1	1041.1	1040.9	1040.3	1039.7
175°	1045.4	1047.5	1047.5	1047.5	1047.5
177.5°	1045.8	1047.5	1047.5	1047.5	1047.5
180°	1047.5	1047.5	1047.5	1047.5	1047.5



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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	8.35	9.03	9.48	10.16	11.72	11.17	11.86	12.30	12.98	14.55
	3H	8.81	9.42	9.95	10.56	12.14	12.50	13.11	13.64	14.25	15.83
	4H	8.99	9.58	10.14	10.71	12.30	12.93	13.52	14.09	14.65	16.24
	6H	9.10	9.64	10.26	10.77	12.37	13.21	13.75	14.37	14.88	16.48
	8H	9.10	9.61	10.26	10.76	12.35	13.28	13.79	14.44	14.94	16.53
	12H	9.06	9.55	10.23	10.69	12.31	13.31	13.79	14.47	14.94	16.55
4H	2H	9.36	9.94	10.51	11.07	12.66	11.56	12.14	12.72	13.27	14.86
	3H	10.37	10.85	11.53	12.01	13.61	13.04	13.53	14.21	14.69	16.29
	4H	10.63	11.08	11.80	12.23	13.85	13.56	14.01	14.73	15.16	16.78
	6H	10.75	11.13	11.92	12.30	13.91	13.92	14.30	15.09	15.47	17.08
	8H	10.75	11.11	11.92	12.27	13.90	14.02	14.38	15.19	15.54	17.16
	12H	10.71	11.03	11.90	12.21	13.84	14.07	14.39	15.25	15.56	17.19
8H	4H	11.07	11.43	12.24	12.59	14.22	13.67	14.03	14.84	15.19	16.82
	6H	11.33	11.62	12.52	12.83	14.45	14.10	14.40	15.29	15.60	17.22
	8H	11.37	11.62	12.56	12.81	14.45	14.25	14.51	15.45	15.69	17.33
	12H	11.34	11.57	12.54	12.75	14.42	14.34	14.57	15.54	15.75	17.42
12H	4H	11.07	11.39	12.26	12.57	14.20	13.63	13.95	14.82	15.13	16.76
	6H	11.39	11.64	12.58	12.82	14.47	14.10	14.35	15.29	15.54	17.18
	8H	11.44	11.67	12.64	12.85	14.52	14.25	14.48	15.45	15.65	17.33