

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: P934010

Luminaire Tested: SQ4-FA-025U-100D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934010
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

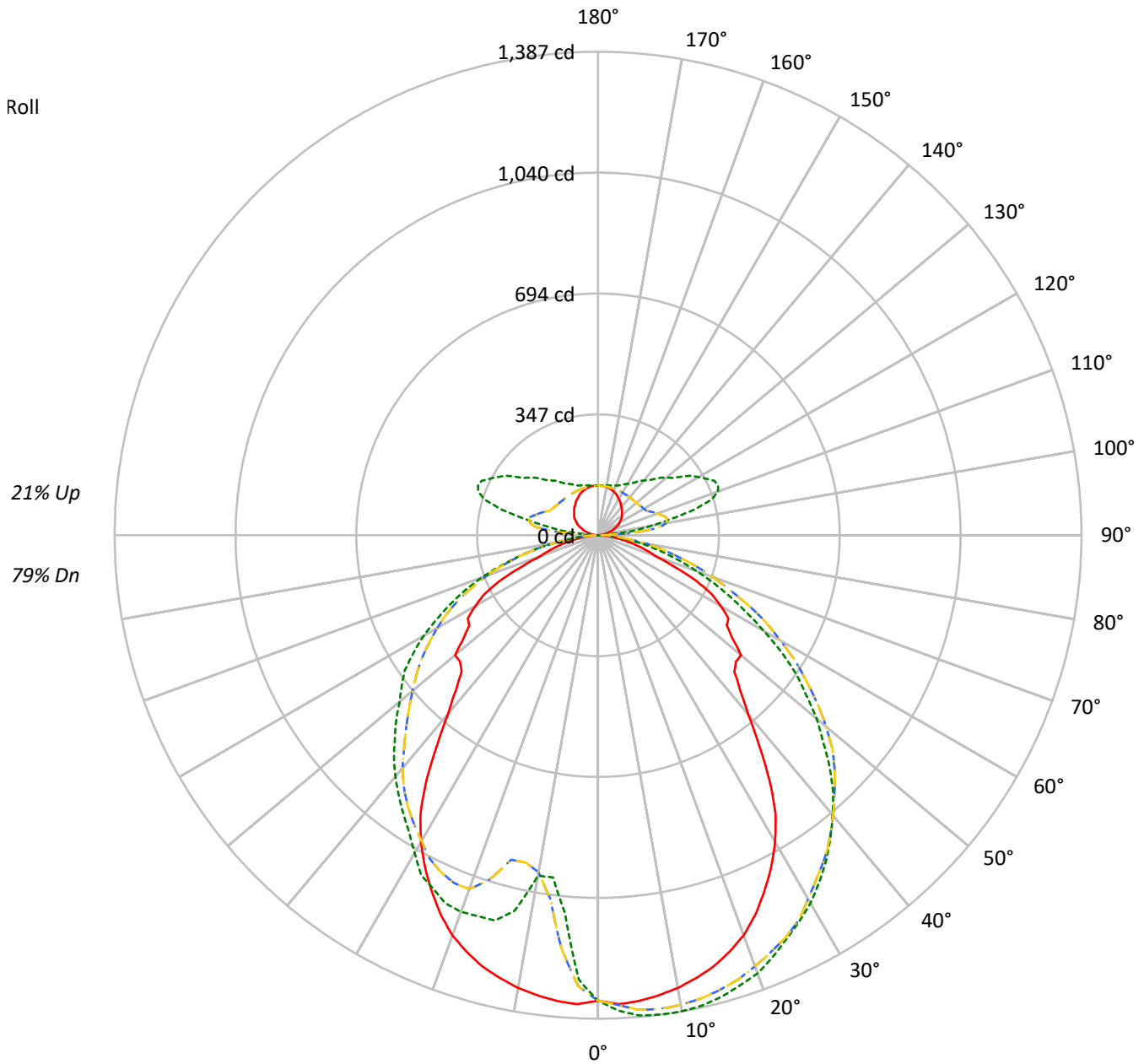
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4387.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79				79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67				67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56				56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47				47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41				41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35				35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24				24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22				22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12389	12389	12389	12389
5°	12468	12506	12468	9833
10°	12371	12319	12371	8808
15°	12222	12051	12222	10063
20°	11952	11736	11952	10084
25°	11416	11275	11416	9871
30°	10727	10892	10727	9402
35°	9548	10408	9548	8887
40°	7943	9837	7943	8497
45°	7082	9170	7082	8048
50°	7508	8374	7508	7599
55°	7043	7517	7043	7338
60°	7234	6383	7234	6722
65°	6529	5277	6529	5900
70°	4491	4206	4491	4946
75°	3892	3109	3892	3723
80°	3075	2056	3075	2238
85°	1673	1088	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10877 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	2.7
10°-20°	342.2	7.8
20°-30°	528.9	12.1
30°-40°	631.4	14.4
40°-50°	635.2	14.5
50°-60°	552.7	12.6
60°-70°	391.8	8.9
70°-80°	207.3	4.7
80°-90°	52.2	1.2
90°-100°	69.5	1.6
100°-110°	182.8	4.2
110°-120°	189.6	4.3
120°-130°	152.1	3.5
130°-140°	119.3	2.7
140°-150°	91.6	2.1
150°-160°	65.9	1.5
160°-170°	40.3	0.9
170°-180°	13.6	0.3
0°-30°	991.6	22.6
0°-40°	1623.1	37.0
0°-60°	2810.9	64.1
0°-90°	3462.2	78.9
90°-120°	442.0	10.1
90°-150°	804.9	18.3
90°-180°	925.0	21.1
0°-180°	4387.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1335	1335	1335	1335	1335	
5°	1342	1383	1342	1088	1342	127
15°	1281	1370	1281	1144	1281	360
25°	1128	1278	1128	1119	1128	518
35°	858	1141	858	974	858	531
45°	553	940	553	825	553	443
55°	451	694	451	677	451	414
65°	313	418	313	467	313	299
75°	119	198	119	238	119	125
85°	20	50	20	43	20	27
90°	1	4	1	4	1	2
95°	9	42	9	42	9	10
105°	33	286	33	286	33	35
115°	58	369	58	369	58	58
125°	81	294	81	294	81	72
135°	97	228	97	228	97	75
145°	112	185	112	185	112	70
155°	127	159	127	159	127	58
165°	137	148	137	148	137	39
175°	143	144	143	144	143	14
180°	143	143	143	143	143	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1346.4	1346.4	1354.1	1356.6	1356.6	1352.7	1349.0	1352.7	1364.1	1367.9	1366.7
5°	1341.5	1351.5	1365.5	1367.9	1370.4	1369.2	1366.7	1369.2	1381.8	1384.4	1385.6
7.5°	1331.3	1350.3	1367.9	1371.8	1375.5	1371.8	1370.4	1373.0	1385.6	1388.1	1388.1
10°	1318.7	1345.2	1365.5	1367.9	1371.8	1367.9	1367.9	1373.0	1385.6	1388.1	1389.5
12.5°	1301.0	1337.6	1356.6	1359.1	1364.1	1362.9	1361.6	1366.7	1379.3	1381.8	1381.8
15°	1280.8	1323.8	1341.5	1343.9	1352.7	1350.3	1350.3	1355.3	1369.2	1373.0	1371.8
17.5°	1253.0	1306.1	1326.3	1330.1	1336.4	1335.1	1336.4	1341.5	1354.1	1356.6	1357.8
20°	1221.4	1282.1	1306.1	1309.8	1316.1	1316.1	1316.1	1322.4	1335.1	1340.1	1340.1
22.5°	1178.5	1256.8	1282.1	1284.6	1292.1	1292.1	1294.7	1303.5	1314.9	1316.1	1316.1
25°	1128.0	1229.0	1250.4	1258.1	1265.6	1269.4	1273.2	1278.3	1282.1	1280.8	1282.1
27.5°	1074.9	1193.7	1221.4	1226.5	1236.6	1240.4	1245.4	1246.7	1248.0	1251.7	1249.2
30°	1015.6	1144.3	1186.0	1191.1	1207.5	1210.0	1205.0	1207.5	1213.8	1216.4	1218.9
32.5°	948.5	1071.1	1149.4	1160.8	1176.0	1168.3	1167.1	1170.9	1181.0	1181.0	1183.5
35°	857.6	1014.3	1115.4	1125.4	1136.8	1128.0	1133.0	1134.3	1140.6	1144.3	1143.1
37.5°	757.8	965.0	1080.0	1087.5	1096.3	1085.0	1092.6	1096.3	1101.4	1098.9	1098.9
40°	669.5	887.9	1038.3	1043.3	1050.9	1042.0	1049.6	1052.2	1054.7	1052.2	1050.9
42.5°	603.8	803.3	994.0	1000.4	995.3	1001.6	1004.2	1009.2	1005.4	1000.4	1000.4
45°	553.2	780.6	946.1	953.6	946.1	956.2	959.9	959.9	948.5	946.1	944.8
47.5°	536.8	735.2	898.1	898.1	894.2	906.9	913.3	904.4	893.0	889.3	889.3
50°	535.6	684.6	832.4	827.3	845.0	860.2	853.9	845.0	836.2	822.3	822.3
52.5°	486.3	622.7	747.8	766.7	794.5	803.3	793.2	784.4	769.2	762.9	757.8
55°	450.9	558.3	670.7	708.6	737.6	749.0	730.1	721.2	698.5	694.7	692.1
57.5°	443.4	464.8	600.0	648.0	683.3	682.1	670.7	654.3	635.4	631.5	630.3
60°	406.7	335.9	524.2	581.1	617.7	613.8	603.8	588.6	570.9	568.4	565.9
62.5°	368.8	243.8	438.3	502.8	554.5	553.2	544.4	521.7	509.1	502.8	497.7
65°	313.3	204.6	311.9	418.1	492.6	495.1	476.2	459.7	445.9	438.3	437.0
67.5°	238.7	166.7	210.9	348.7	433.3	430.7	406.7	399.1	381.4	377.6	370.1
70°	176.9	111.2	146.6	283.0	375.1	368.8	349.9	341.0	324.7	315.8	310.7
72.5°	146.6	89.7	107.4	219.8	315.8	308.2	291.8	281.6	267.8	260.2	255.2
75°	118.7	94.7	82.1	162.9	256.4	251.3	236.2	226.1	214.7	204.6	205.9
77.5°	87.2	88.4	65.7	120.0	203.3	195.8	186.9	174.3	169.2	159.2	159.2
80°	65.7	69.5	49.2	82.1	146.6	146.6	138.9	130.1	121.2	116.2	116.2
82.5°	44.2	44.2	36.6	51.8	99.8	96.0	90.9	88.4	83.4	80.9	80.9
85°	20.2	25.2	22.8	31.5	54.3	56.9	56.9	54.3	53.1	50.5	51.8
87.5°	6.3	11.4	13.9	17.7	27.8	29.1	30.3	30.3	30.3	31.5	31.5
90°	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9	3.6	3.6
92.5°	3.8	10.3	16.8	18.5	26.0	36.0	41.0	35.9	25.8	18.2	17.4
95°	9.2	21.1	33.1	36.0	64.0	101.1	119.8	106.9	81.1	61.8	59.6
97.5°	15.9	26.4	36.9	39.6	86.1	148.2	179.2	171.1	154.8	142.5	138.3
100°	21.0	30.6	40.2	42.5	94.2	163.1	197.5	198.1	199.3	200.2	195.2
102.5°	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.8	249.4	245.1
105°	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.4	272.0	306.9	304.6
107.5°	40.6	47.6	54.7	56.4	101.1	160.8	190.6	223.1	288.0	336.8	337.4
110°	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0	344.4	346.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.8	339.6	343.2
115°	58.5	64.1	69.6	71.0	101.3	141.8	161.9	197.7	269.3	322.9	328.0
117.5°	66.1	71.1	76.2	77.4	103.2	137.6	154.8	187.1	251.6	300.1	305.7
120°	70.5	75.2	80.0	81.2	104.7	136.1	151.8	181.4	240.4	284.7	290.1
122.5°	74.8	79.5	84.3	85.6	106.9	135.4	149.6	176.2	229.3	269.2	274.6
125°	81.4	85.8	90.2	91.3	109.9	134.8	147.2	169.8	215.0	248.8	253.8
127.5°	86.7	91.2	95.6	96.7	112.9	134.4	145.2	164.6	203.4	232.5	236.7
130°	89.6	94.4	99.1	100.4	115.1	134.7	144.5	161.8	196.3	222.2	226.0
132.5°	92.6	97.4	102.2	103.3	116.8	134.8	143.8	159.3	190.1	213.4	216.8
135°	97.0	101.3	105.7	106.8	118.7	134.7	142.6	155.5	181.4	200.9	203.8
137.5°	101.5	105.8	110.1	111.2	121.6	135.5	142.4	153.3	175.2	191.7	194.2
140°	105.3	109.2	113.2	114.1	123.3	135.7	141.8	151.2	170.2	184.3	186.6
142.5°	108.1	111.8	115.4	116.3	124.9	136.1	141.8	150.1	166.7	179.2	181.2
145°	112.5	115.7	118.9	119.7	126.8	136.1	140.8	147.6	161.2	171.4	172.9
147.5°	116.9	120.0	123.1	123.9	129.5	137.1	140.8	146.2	156.9	164.9	166.2
150°	119.8	122.6	125.4	126.1	131.0	137.6	140.8	145.3	154.4	161.2	162.1
152.5°	122.8	124.9	127.0	127.5	131.9	137.9	140.8	144.6	152.4	158.2	159.0
155°	127.1	128.7	130.3	130.7	134.0	138.5	140.8	143.9	150.1	154.7	155.2
157.5°	130.4	131.9	133.5	133.8	136.1	139.3	140.8	143.2	148.0	151.5	151.9
160°	132.6	133.7	135.0	135.3	137.1	139.6	140.8	142.8	146.9	150.0	150.2
162.5°	134.8	135.7	136.6	136.8	138.1	140.0	140.8	142.5	146.0	148.6	148.8
165°	137.2	138.0	138.8	139.0	139.6	140.4	140.8	142.1	144.5	146.4	146.6
167.5°	139.4	139.8	140.1	140.2	140.7	141.4	141.8	142.5	144.2	145.4	145.5
170°	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.5	144.2	145.4	145.4
172.5°	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.4	143.7	144.6	144.5
175°	142.6	142.6	142.6	142.6	142.3	142.0	141.8	142.2	143.0	143.6	143.6
177.5°	142.6	142.6	142.6	142.6	142.4	142.2	142.0	142.3	142.9	143.4	143.3
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1369.2	1365.5	1369.2	1366.7	1367.9	1364.1	1352.7	1349.0	1352.7	1356.6	1356.6
5°	1385.6	1383.1	1385.6	1385.6	1384.4	1381.8	1369.2	1366.7	1369.2	1370.4	1367.9
7.5°	1390.7	1386.9	1390.7	1388.1	1388.1	1385.6	1373.0	1370.4	1371.8	1375.5	1371.8
10°	1390.7	1386.9	1390.7	1389.5	1388.1	1385.6	1373.0	1367.9	1367.9	1371.8	1367.9
12.5°	1384.4	1381.8	1384.4	1381.8	1381.8	1379.3	1366.7	1361.6	1362.9	1364.1	1359.1
15°	1374.2	1370.4	1374.2	1371.8	1373.0	1369.2	1355.3	1350.3	1350.3	1352.7	1343.9
17.5°	1359.1	1354.1	1359.1	1357.8	1356.6	1354.1	1341.5	1336.4	1335.1	1336.4	1330.1
20°	1341.5	1337.6	1341.5	1340.1	1340.1	1335.1	1322.4	1316.1	1316.1	1316.1	1309.8
22.5°	1313.6	1309.8	1313.6	1316.1	1316.1	1314.9	1303.5	1294.7	1292.1	1292.1	1284.6
25°	1282.1	1278.3	1282.1	1282.1	1280.8	1282.1	1278.3	1273.2	1269.4	1265.6	1258.1
27.5°	1251.7	1249.2	1251.7	1249.2	1251.7	1248.0	1246.7	1245.4	1240.4	1236.6	1226.5
30°	1221.4	1218.9	1221.4	1218.9	1216.4	1213.8	1207.5	1205.0	1210.0	1207.5	1191.1
32.5°	1183.5	1181.0	1183.5	1183.5	1181.0	1181.0	1170.9	1167.1	1168.3	1176.0	1160.8
35°	1144.3	1140.6	1144.3	1143.1	1144.3	1140.6	1134.3	1133.0	1128.0	1136.8	1125.4
37.5°	1098.9	1095.1	1098.9	1098.9	1098.9	1101.4	1096.3	1092.6	1085.0	1096.3	1087.5
40°	1052.2	1047.1	1052.2	1050.9	1052.2	1054.7	1052.2	1049.6	1042.0	1050.9	1043.3
42.5°	999.1	997.9	999.1	1000.4	1000.4	1005.4	1009.2	1004.2	1001.6	995.3	1000.4
45°	942.2	939.7	942.2	944.8	946.1	948.5	959.9	959.9	956.2	946.1	953.6
47.5°	881.6	875.3	881.6	889.3	889.3	893.0	904.4	913.3	906.9	894.2	898.1
50°	817.2	818.5	817.2	822.3	822.3	836.2	845.0	853.9	860.2	845.0	827.3
52.5°	754.1	752.8	754.1	757.8	762.9	769.2	784.4	793.2	803.3	794.5	766.7
55°	690.9	693.5	690.9	692.1	694.7	698.5	721.2	730.1	749.0	737.6	708.6
57.5°	627.8	624.0	627.8	630.3	631.5	635.4	654.3	670.7	682.1	683.3	648.0
60°	554.5	549.4	554.5	565.9	568.4	570.9	588.6	603.8	613.8	617.7	581.1
62.5°	490.0	481.3	490.0	497.7	502.8	509.1	521.7	544.4	553.2	554.5	502.8
65°	421.9	418.1	421.9	437.0	438.3	445.9	459.7	476.2	495.1	492.6	418.1
67.5°	360.0	360.0	360.0	370.1	377.6	381.4	399.1	406.7	430.7	433.3	348.7
70°	303.1	301.9	303.1	310.7	315.8	324.7	341.0	349.9	368.8	375.1	283.0
72.5°	248.8	247.6	248.8	255.2	260.2	267.8	281.6	291.8	308.2	315.8	219.8
75°	200.9	198.3	200.9	205.9	204.6	214.7	226.1	236.2	251.3	256.4	162.9
77.5°	154.1	154.1	154.1	159.2	159.2	169.2	174.3	186.9	195.8	203.3	120.0
80°	114.9	113.7	114.9	116.2	116.2	121.2	130.1	138.9	146.6	146.6	82.1
82.5°	80.9	78.3	80.9	80.9	80.9	83.4	88.4	90.9	96.0	99.8	51.8
85°	50.5	50.5	50.5	51.8	50.5	53.1	54.3	56.9	56.9	54.3	31.5
87.5°	32.9	31.5	32.9	31.5	31.5	30.3	30.3	30.3	29.1	27.8	17.7
90°	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2	4.2	2.7
92.5°	14.5	11.7	14.5	17.4	18.2	25.8	35.9	41.0	36.0	26.0	18.5
95°	50.9	42.1	50.9	59.6	61.8	81.1	106.9	119.8	101.1	64.0	36.0
97.5°	121.7	105.1	121.7	138.3	142.5	154.8	171.1	179.2	148.2	86.1	39.6
100°	175.4	155.5	175.4	195.2	200.2	199.3	198.1	197.5	163.1	94.2	42.5
102.5°	228.1	211.1	228.1	245.1	249.4	233.8	213.1	202.7	167.8	97.9	45.5
105°	295.5	286.3	295.5	304.6	306.9	272.0	225.4	202.1	168.3	100.7	49.9
107.5°	339.6	341.8	339.6	337.4	336.8	288.0	223.1	190.6	160.8	101.1	56.4
110°	356.3	365.9	356.3	346.8	344.4	290.0	217.4	181.1	154.2	100.4	60.0



TEST NUMBER: P934010

CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	357.8	372.5	357.8	343.2	339.6	283.8	209.6	172.4	148.4	100.4	64.4
115°	348.4	368.6	348.4	328.0	322.9	269.3	197.7	161.9	141.8	101.3	71.0
117.5°	328.2	350.8	328.2	305.7	300.1	251.6	187.1	154.8	137.6	103.2	77.4
120°	312.0	333.8	312.0	290.1	284.7	240.4	181.4	151.8	136.1	104.7	81.2
122.5°	296.2	317.8	296.2	274.6	269.2	229.3	176.2	149.6	135.4	106.9	85.6
125°	273.7	293.6	273.7	253.8	248.8	215.0	169.8	147.2	134.8	109.9	91.3
127.5°	253.4	270.2	253.4	236.7	232.5	203.4	164.6	145.2	134.4	112.9	96.7
130°	241.5	257.0	241.5	226.0	222.2	196.3	161.8	144.5	134.7	115.1	100.4
132.5°	230.7	244.5	230.7	216.8	213.4	190.1	159.3	143.8	134.8	116.8	103.3
135°	215.9	227.8	215.9	203.8	200.9	181.4	155.5	142.6	134.7	118.7	106.8
137.5°	203.9	213.8	203.9	194.2	191.7	175.2	153.3	142.4	135.5	121.6	111.2
140°	195.7	204.9	195.7	186.6	184.3	170.2	151.2	141.8	135.7	123.3	114.1
142.5°	189.0	196.8	189.0	181.2	179.2	166.7	150.1	141.8	136.1	124.9	116.3
145°	178.9	184.8	178.9	172.9	171.4	161.2	147.6	140.8	136.1	126.8	119.7
147.5°	171.0	176.0	171.0	166.2	164.9	156.9	146.2	140.8	137.1	129.5	123.9
150°	166.2	170.2	166.2	162.1	161.2	154.4	145.3	140.8	137.6	131.0	126.1
152.5°	161.9	165.0	161.9	159.0	158.2	152.4	144.6	140.8	137.9	131.9	127.5
155°	157.2	159.2	157.2	155.2	154.7	150.1	143.9	140.8	138.5	134.0	130.7
157.5°	153.3	154.8	153.3	151.9	151.5	148.0	143.2	140.8	139.3	136.1	133.8
160°	151.0	151.8	151.0	150.2	150.0	146.9	142.8	140.8	139.6	137.1	135.3
162.5°	149.5	150.3	149.5	148.8	148.6	146.0	142.5	140.8	140.0	138.1	136.8
165°	147.4	148.2	147.4	146.6	146.4	144.5	142.1	140.8	140.4	139.6	139.0
167.5°	145.8	146.2	145.8	145.5	145.4	144.2	142.5	141.8	141.4	140.7	140.2
170°	145.4	145.4	145.4	145.4	145.4	144.2	142.5	141.8	141.8	141.7	141.7
172.5°	144.3	144.0	144.3	144.5	144.6	143.7	142.4	141.8	141.8	141.8	141.8
175°	143.6	143.6	143.6	143.6	143.6	143.0	142.2	141.8	142.0	142.3	142.6
177.5°	143.0	142.6	143.0	143.3	143.4	142.9	142.3	142.0	142.2	142.4	142.6
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6



TEST NUMBER: P934010

CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1354.1	1346.4	1346.4	1333.8	1328.7	1325.0	1318.7	1299.8	1294.7	1289.6	1297.2
5°	1365.5	1351.5	1341.5	1318.7	1299.8	1292.1	1268.1	1222.7	1192.3	1169.7	1157.0
7.5°	1367.9	1350.3	1331.3	1296.0	1250.4	1230.3	1157.0	1073.7	1050.9	1030.7	1018.0
10°	1365.5	1345.2	1318.7	1265.6	1158.3	1122.9	1049.6	995.3	981.4	977.6	981.4
12.5°	1356.6	1337.6	1301.0	1212.6	1062.3	1038.3	995.3	963.7	961.3	967.6	1001.6
15°	1341.5	1323.8	1280.8	1141.8	1009.2	991.6	961.3	949.9	963.7	1007.9	1110.3
17.5°	1326.3	1306.1	1253.0	1072.3	968.8	956.2	934.7	957.4	1035.7	1095.1	1129.2
20°	1306.1	1282.1	1221.4	1021.9	939.7	928.4	918.2	1020.6	1080.0	1101.4	1120.3
22.5°	1282.1	1256.8	1178.5	986.5	909.4	900.6	906.9	1056.0	1080.0	1095.1	1111.5
25°	1250.4	1229.0	1128.0	958.7	885.4	875.3	899.3	1052.2	1066.0	1069.9	1102.7
27.5°	1221.4	1193.7	1074.9	933.4	856.4	852.6	905.6	1035.7	1045.9	1049.6	1085.0
30°	1186.0	1144.3	1015.6	906.9	826.1	824.8	906.9	1015.6	1013.0	1023.1	1058.5
32.5°	1149.4	1071.1	948.5	874.1	797.0	795.8	898.1	985.3	982.7	996.6	1023.1
35°	1115.4	1014.3	857.6	836.2	760.4	761.6	876.6	949.9	951.1	963.7	980.2
37.5°	1080.0	965.0	757.8	794.5	725.0	725.0	847.5	917.0	914.5	918.2	941.0
40°	1038.3	887.9	669.5	740.1	692.1	688.4	812.2	881.6	872.8	871.6	903.1
42.5°	994.0	803.3	603.8	668.1	654.3	649.2	769.2	838.7	822.3	826.1	866.5
45°	946.1	780.6	553.2	564.6	615.1	611.4	722.4	789.5	778.1	788.2	829.9
47.5°	898.1	735.2	536.8	468.6	573.4	572.2	670.7	741.5	735.2	745.2	789.5
50°	832.4	684.6	535.6	401.7	526.8	531.7	608.8	694.7	694.7	703.5	750.3
52.5°	747.8	622.7	486.3	363.8	472.4	487.6	554.5	654.3	656.8	665.7	707.3
55°	670.7	558.3	450.9	334.7	408.0	440.8	501.4	612.6	617.7	626.5	664.4
57.5°	600.0	464.8	443.4	300.7	348.7	380.2	454.7	572.2	574.7	582.3	618.9
60°	524.2	335.9	406.7	264.0	296.8	320.8	411.7	524.2	533.1	538.0	569.7
62.5°	438.3	243.8	368.8	238.7	271.6	276.7	376.4	478.7	490.0	493.9	512.8
65°	311.9	204.6	313.3	217.3	245.0	246.3	338.5	432.0	442.1	448.4	462.3
67.5°	210.9	166.7	238.7	197.0	224.9	226.1	301.9	377.6	391.6	396.6	405.4
70°	146.6	111.2	176.9	175.6	202.1	204.6	262.7	328.4	341.0	344.8	349.9
72.5°	107.4	89.7	146.6	157.9	178.1	180.6	222.3	272.8	285.5	289.3	291.8
75°	82.1	94.7	118.7	137.7	151.5	152.9	181.9	222.3	231.2	233.6	234.9
77.5°	65.7	88.4	87.2	111.2	123.8	121.2	142.7	171.8	179.3	179.3	179.3
80°	49.2	69.5	65.7	79.5	90.9	88.4	102.3	122.6	125.0	127.5	126.3
82.5°	36.6	44.2	44.2	50.5	60.6	58.1	68.2	79.5	79.5	79.5	82.1
85°	22.8	25.2	20.2	26.5	34.1	32.9	37.9	42.9	44.2	44.2	41.7
87.5°	13.9	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	2.5	1.7	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9
92.5°	16.8	10.3	3.8	10.3	16.8	18.5	26.0	36.0	41.0	35.9	25.8
95°	33.1	21.1	9.2	21.1	33.1	36.0	64.0	101.1	119.8	106.9	81.1
97.5°	36.9	26.4	15.9	26.4	36.9	39.6	86.1	148.2	179.2	171.1	154.8
100°	40.2	30.6	21.0	30.6	40.2	42.5	94.2	163.1	197.5	198.1	199.3
102.5°	43.3	34.3	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.8
105°	48.0	40.5	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.4	272.0
107.5°	54.7	47.6	40.6	47.6	54.7	56.4	101.1	160.8	190.6	223.1	288.0
110°	58.4	52.1	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0



TEST NUMBER: P934010

CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	62.9	56.9	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.8
115°	69.6	64.1	58.5	64.1	69.6	71.0	101.3	141.8	161.9	197.7	269.3
117.5°	76.2	71.1	66.1	71.1	76.2	77.4	103.2	137.6	154.8	187.1	251.6
120°	80.0	75.2	70.5	75.2	80.0	81.2	104.7	136.1	151.8	181.4	240.4
122.5°	84.3	79.5	74.8	79.5	84.3	85.6	106.9	135.4	149.6	176.2	229.3
125°	90.2	85.8	81.4	85.8	90.2	91.3	109.9	134.8	147.2	169.8	215.0
127.5°	95.6	91.2	86.7	91.2	95.6	96.7	112.9	134.4	145.2	164.6	203.4
130°	99.1	94.4	89.6	94.4	99.1	100.4	115.1	134.7	144.5	161.8	196.3
132.5°	102.2	97.4	92.6	97.4	102.2	103.3	116.8	134.8	143.8	159.3	190.1
135°	105.7	101.3	97.0	101.3	105.7	106.8	118.7	134.7	142.6	155.5	181.4
137.5°	110.1	105.8	101.5	105.8	110.1	111.2	121.6	135.5	142.4	153.3	175.2
140°	113.2	109.2	105.3	109.2	113.2	114.1	123.3	135.7	141.8	151.2	170.2
142.5°	115.4	111.8	108.1	111.8	115.4	116.3	124.9	136.1	141.8	150.1	166.7
145°	118.9	115.7	112.5	115.7	118.9	119.7	126.8	136.1	140.8	147.6	161.2
147.5°	123.1	120.0	116.9	120.0	123.1	123.9	129.5	137.1	140.8	146.2	156.9
150°	125.4	122.6	119.8	122.6	125.4	126.1	131.0	137.6	140.8	145.3	154.4
152.5°	127.0	124.9	122.8	124.9	127.0	127.5	131.9	137.9	140.8	144.6	152.4
155°	130.3	128.7	127.1	128.7	130.3	130.7	134.0	138.5	140.8	143.9	150.1
157.5°	133.5	131.9	130.4	131.9	133.5	133.8	136.1	139.3	140.8	143.2	148.0
160°	135.0	133.7	132.6	133.7	135.0	135.3	137.1	139.6	140.8	142.8	146.9
162.5°	136.6	135.7	134.8	135.7	136.6	136.8	138.1	140.0	140.8	142.5	146.0
165°	138.8	138.0	137.2	138.0	138.8	139.0	139.6	140.4	140.8	142.1	144.5
167.5°	140.1	139.8	139.4	139.8	140.1	140.2	140.7	141.4	141.8	142.5	144.2
170°	141.6	141.2	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.5	144.2
172.5°	141.8	141.7	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.4	143.7
175°	142.6	142.6	142.6	142.6	142.6	142.6	142.3	142.0	141.8	142.2	143.0
177.5°	142.6	142.6	142.6	142.6	142.6	142.6	142.4	142.2	142.0	142.3	142.9
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6



TEST NUMBER: P934010
 CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1288.4	1284.6	1289.6	1275.7	1289.6	1284.6	1288.4	1297.2	1289.6	1294.7	1299.8
5°	1130.5	1124.2	1104.0	1087.5	1104.0	1124.2	1130.5	1157.0	1169.7	1192.3	1222.7
7.5°	1010.5	1005.4	1000.4	990.2	1000.4	1005.4	1010.5	1018.0	1030.7	1050.9	1073.7
10°	983.9	985.3	992.8	991.6	992.8	985.3	983.9	981.4	977.6	981.4	995.3
12.5°	1052.2	1063.6	1105.2	1102.7	1105.2	1063.6	1052.2	1001.6	967.6	961.3	963.7
15°	1130.5	1134.3	1143.1	1144.3	1143.1	1134.3	1130.5	1110.3	1007.9	963.7	949.9
17.5°	1138.0	1139.4	1145.7	1145.7	1145.7	1139.4	1138.0	1129.2	1095.1	1035.7	957.4
20°	1131.7	1134.3	1146.9	1149.4	1146.9	1134.3	1131.7	1120.3	1101.4	1080.0	1020.6
22.5°	1129.2	1134.3	1144.3	1143.1	1144.3	1134.3	1129.2	1111.5	1095.1	1080.0	1056.0
25°	1116.6	1116.6	1117.9	1119.1	1117.9	1116.6	1116.6	1102.7	1069.9	1066.0	1052.2
27.5°	1090.0	1092.6	1100.2	1098.9	1100.2	1092.6	1090.0	1085.0	1049.6	1045.9	1035.7
30°	1066.0	1063.6	1057.2	1052.2	1057.2	1063.6	1066.0	1058.5	1023.1	1013.0	1015.6
32.5°	1025.6	1019.3	1013.0	1009.2	1013.0	1019.3	1025.6	1023.1	996.6	982.7	985.3
35°	977.6	978.9	977.6	973.9	977.6	978.9	977.6	980.2	963.7	951.1	949.9
37.5°	943.6	946.1	944.8	939.7	944.8	946.1	943.6	941.0	918.2	914.5	917.0
40°	908.2	909.4	908.2	904.4	908.2	909.4	908.2	903.1	871.6	872.8	881.6
42.5°	874.1	872.8	869.0	866.5	869.0	872.8	874.1	866.5	826.1	822.3	838.7
45°	834.9	836.2	828.6	824.8	828.6	836.2	834.9	829.9	788.2	778.1	789.5
47.5°	795.8	795.8	789.5	785.6	789.5	795.8	795.8	789.5	745.2	735.2	741.5
50°	754.1	752.8	744.0	742.7	744.0	752.8	754.1	750.3	703.5	694.7	694.7
52.5°	706.1	706.1	707.3	709.8	707.3	706.1	706.1	707.3	665.7	656.8	654.3
55°	664.4	665.7	674.5	677.0	674.5	665.7	664.4	664.4	626.5	617.7	612.6
57.5°	621.4	621.4	627.8	627.8	627.8	621.4	621.4	618.9	582.3	574.7	572.2
60°	572.2	574.7	579.7	578.5	579.7	574.7	572.2	569.7	538.0	533.1	524.2
62.5°	520.4	522.9	524.2	521.7	524.2	522.9	520.4	512.8	493.9	490.0	478.7
65°	466.0	468.6	469.9	467.4	469.9	468.6	466.0	462.3	448.4	442.1	432.0
67.5°	410.5	409.3	408.0	413.0	408.0	409.3	410.5	405.4	396.6	391.6	377.6
70°	353.6	353.6	352.4	355.0	352.4	353.6	353.6	349.9	344.8	341.0	328.4
72.5°	293.0	291.8	296.8	293.0	296.8	291.8	293.0	291.8	289.3	285.5	272.8
75°	233.6	236.2	233.6	237.5	233.6	236.2	233.6	234.9	233.6	231.2	222.3
77.5°	178.1	180.6	178.1	178.1	178.1	180.6	178.1	179.3	179.3	179.3	171.8
80°	126.3	125.0	125.0	123.8	125.0	125.0	126.3	126.3	127.5	125.0	122.6
82.5°	80.9	79.5	79.5	82.1	79.5	79.5	80.9	82.1	79.5	79.5	79.5
85°	44.2	45.5	42.9	42.9	42.9	45.5	44.2	41.7	44.2	44.2	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2
92.5°	18.2	17.4	14.5	11.7	14.5	17.4	18.2	25.8	35.9	41.0	36.0
95°	61.8	59.6	50.9	42.1	50.9	59.6	61.8	81.1	106.9	119.8	101.1
97.5°	142.5	138.3	121.7	105.1	121.7	138.3	142.5	154.8	171.1	179.2	148.2
100°	200.2	195.2	175.4	155.5	175.4	195.2	200.2	199.3	198.1	197.5	163.1
102.5°	249.4	245.1	228.1	211.1	228.1	245.1	249.4	233.8	213.1	202.7	167.8
105°	306.9	304.6	295.5	286.3	295.5	304.6	306.9	272.0	225.4	202.1	168.3
107.5°	336.8	337.4	339.6	341.8	339.6	337.4	336.8	288.0	223.1	190.6	160.8
110°	344.4	346.8	356.3	365.9	356.3	346.8	344.4	290.0	217.4	181.1	154.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	339.6	343.2	357.8	372.5	357.8	343.2	339.6	283.8	209.6	172.4	148.4
115°	322.9	328.0	348.4	368.6	348.4	328.0	322.9	269.3	197.7	161.9	141.8
117.5°	300.1	305.7	328.2	350.8	328.2	305.7	300.1	251.6	187.1	154.8	137.6
120°	284.7	290.1	312.0	333.8	312.0	290.1	284.7	240.4	181.4	151.8	136.1
122.5°	269.2	274.6	296.2	317.8	296.2	274.6	269.2	229.3	176.2	149.6	135.4
125°	248.8	253.8	273.7	293.6	273.7	253.8	248.8	215.0	169.8	147.2	134.8
127.5°	232.5	236.7	253.4	270.2	253.4	236.7	232.5	203.4	164.6	145.2	134.4
130°	222.2	226.0	241.5	257.0	241.5	226.0	222.2	196.3	161.8	144.5	134.7
132.5°	213.4	216.8	230.7	244.5	230.7	216.8	213.4	190.1	159.3	143.8	134.8
135°	200.9	203.8	215.9	227.8	215.9	203.8	200.9	181.4	155.5	142.6	134.7
137.5°	191.7	194.2	203.9	213.8	203.9	194.2	191.7	175.2	153.3	142.4	135.5
140°	184.3	186.6	195.7	204.9	195.7	186.6	184.3	170.2	151.2	141.8	135.7
142.5°	179.2	181.2	189.0	196.8	189.0	181.2	179.2	166.7	150.1	141.8	136.1
145°	171.4	172.9	178.9	184.8	178.9	172.9	171.4	161.2	147.6	140.8	136.1
147.5°	164.9	166.2	171.0	176.0	171.0	166.2	164.9	156.9	146.2	140.8	137.1
150°	161.2	162.1	166.2	170.2	166.2	162.1	161.2	154.4	145.3	140.8	137.6
152.5°	158.2	159.0	161.9	165.0	161.9	159.0	158.2	152.4	144.6	140.8	137.9
155°	154.7	155.2	157.2	159.2	157.2	155.2	154.7	150.1	143.9	140.8	138.5
157.5°	151.5	151.9	153.3	154.8	153.3	151.9	151.5	148.0	143.2	140.8	139.3
160°	150.0	150.2	151.0	151.8	151.0	150.2	150.0	146.9	142.8	140.8	139.6
162.5°	148.6	148.8	149.5	150.3	149.5	148.8	148.6	146.0	142.5	140.8	140.0
165°	146.4	146.6	147.4	148.2	147.4	146.6	146.4	144.5	142.1	140.8	140.4
167.5°	145.4	145.5	145.8	146.2	145.8	145.5	145.4	144.2	142.5	141.8	141.4
170°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	144.2	142.5	141.8	141.8
172.5°	144.6	144.5	144.3	144.0	144.3	144.5	144.6	143.7	142.4	141.8	141.8
175°	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.0	142.2	141.8	142.0
177.5°	143.4	143.3	143.0	142.6	143.0	143.3	143.4	142.9	142.3	142.0	142.2
180°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1318.7	1325.0	1328.7	1333.8	1346.4
5°	1268.1	1292.1	1299.8	1318.7	1341.5
7.5°	1157.0	1230.3	1250.4	1296.0	1331.3
10°	1049.6	1122.9	1158.3	1265.6	1318.7
12.5°	995.3	1038.3	1062.3	1212.6	1301.0
15°	961.3	991.6	1009.2	1141.8	1280.8
17.5°	934.7	956.2	968.8	1072.3	1253.0
20°	918.2	928.4	939.7	1021.9	1221.4
22.5°	906.9	900.6	909.4	986.5	1178.5
25°	899.3	875.3	885.4	958.7	1128.0
27.5°	905.6	852.6	856.4	933.4	1074.9
30°	906.9	824.8	826.1	906.9	1015.6
32.5°	898.1	795.8	797.0	874.1	948.5
35°	876.6	761.6	760.4	836.2	857.6
37.5°	847.5	725.0	725.0	794.5	757.8
40°	812.2	688.4	692.1	740.1	669.5
42.5°	769.2	649.2	654.3	668.1	603.8
45°	722.4	611.4	615.1	564.6	553.2
47.5°	670.7	572.2	573.4	468.6	536.8
50°	608.8	531.7	526.8	401.7	535.6
52.5°	554.5	487.6	472.4	363.8	486.3
55°	501.4	440.8	408.0	334.7	450.9
57.5°	454.7	380.2	348.7	300.7	443.4
60°	411.7	320.8	296.8	264.0	406.7
62.5°	376.4	276.7	271.6	238.7	368.8
65°	338.5	246.3	245.0	217.3	313.3
67.5°	301.9	226.1	224.9	197.0	238.7
70°	262.7	204.6	202.1	175.6	176.9
72.5°	222.3	180.6	178.1	157.9	146.6
75°	181.9	152.9	151.5	137.7	118.7
77.5°	142.7	121.2	123.8	111.2	87.2
80°	102.3	88.4	90.9	79.5	65.7
82.5°	68.2	58.1	60.6	50.5	44.2
85°	37.9	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	4.2	2.7	2.5	1.7	1.0
92.5°	26.0	18.5	16.8	10.3	3.8
95°	64.0	36.0	33.1	21.1	9.2
97.5°	86.1	39.6	36.9	26.4	15.9
100°	94.2	42.5	40.2	30.6	21.0
102.5°	97.9	45.5	43.3	34.3	25.4
105°	100.7	49.9	48.0	40.5	33.0
107.5°	101.1	56.4	54.7	47.6	40.6
110°	100.4	60.0	58.4	52.1	45.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	100.4	64.4	62.9	56.9	50.9
115°	101.3	71.0	69.6	64.1	58.5
117.5°	103.2	77.4	76.2	71.1	66.1
120°	104.7	81.2	80.0	75.2	70.5
122.5°	106.9	85.6	84.3	79.5	74.8
125°	109.9	91.3	90.2	85.8	81.4
127.5°	112.9	96.7	95.6	91.2	86.7
130°	115.1	100.4	99.1	94.4	89.6
132.5°	116.8	103.3	102.2	97.4	92.6
135°	118.7	106.8	105.7	101.3	97.0
137.5°	121.6	111.2	110.1	105.8	101.5
140°	123.3	114.1	113.2	109.2	105.3
142.5°	124.9	116.3	115.4	111.8	108.1
145°	126.8	119.7	118.9	115.7	112.5
147.5°	129.5	123.9	123.1	120.0	116.9
150°	131.0	126.1	125.4	122.6	119.8
152.5°	131.9	127.5	127.0	124.9	122.8
155°	134.0	130.7	130.3	128.7	127.1
157.5°	136.1	133.8	133.5	131.9	130.4
160°	137.1	135.3	135.0	133.7	132.6
162.5°	138.1	136.8	136.6	135.7	134.8
165°	139.6	139.0	138.8	138.0	137.2
167.5°	140.7	140.2	140.1	139.8	139.4
170°	141.7	141.7	141.6	141.2	140.8
172.5°	141.8	141.8	141.8	141.7	141.6
175°	142.3	142.6	142.6	142.6	142.6
177.5°	142.4	142.6	142.6	142.6	142.6
180°	142.6	142.6	142.6	142.6	142.6



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.87	17.07	16.53	17.75	18.54	18.67	19.87	19.33	20.55	21.33
	3H	16.37	17.45	17.05	18.14	18.96	20.03	21.11	20.71	21.80	22.62
	4H	16.58	17.60	17.28	18.30	19.13	20.48	21.50	21.18	22.20	23.03
	6H	16.72	17.66	17.43	18.37	19.21	20.78	21.72	21.49	22.43	23.27
	8H	16.73	17.62	17.45	18.35	19.20	20.86	21.75	21.58	22.48	23.33
	12H	16.71	17.56	17.44	18.29	19.17	20.90	21.76	21.63	22.48	23.36
4H	2H	16.94	17.95	17.64	18.65	19.49	19.12	20.14	19.82	20.84	21.67
	3H	17.99	18.84	18.71	19.58	20.43	20.65	21.49	21.36	22.23	23.08
	4H	18.28	19.05	19.01	19.79	20.68	21.18	21.95	21.91	22.69	23.57
	6H	18.43	19.10	19.18	19.86	20.75	21.56	22.23	22.31	22.99	23.88
	8H	18.44	19.07	19.19	19.83	20.73	21.67	22.29	22.42	23.05	23.96
	12H	18.43	18.99	19.20	19.77	20.68	21.74	22.30	22.51	23.08	23.99
8H	4H	18.76	19.38	19.51	20.14	21.05	21.34	21.96	22.09	22.72	23.62
	6H	19.04	19.55	19.82	20.35	21.26	21.78	22.29	22.56	23.10	24.00
	8H	19.08	19.54	19.87	20.34	21.27	21.93	22.39	22.72	23.19	24.11
	12H	19.08	19.49	19.88	20.28	21.26	22.04	22.44	22.83	23.23	24.21
12H	4H	18.78	19.34	19.55	20.13	21.03	21.32	21.88	22.09	22.66	23.57
	6H	19.10	19.56	19.89	20.36	21.28	21.78	22.24	22.57	23.04	23.96
	8H	19.18	19.59	19.97	20.38	21.36	21.95	22.35	22.74	23.15	24.13