

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: P934036

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934036
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-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

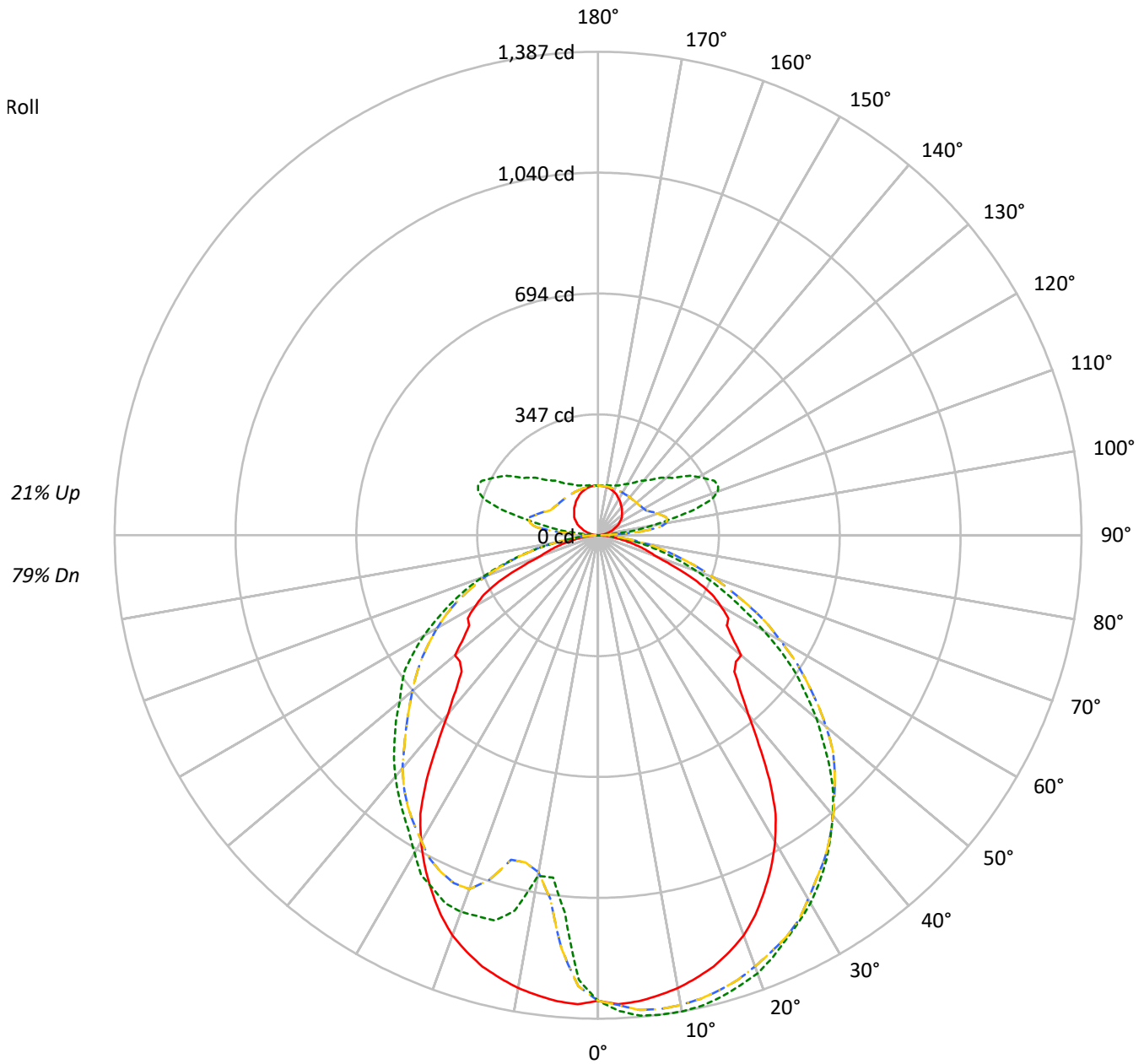
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4387.9 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				
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°	12391	12391	12391	12391
5°	12470	12509	12470	9836
10°	12374	12321	12374	8809
15°	12224	12054	12224	10066
20°	11954	11738	11954	10086
25°	11418	11277	11418	9873
30°	10729	10894	10729	9404
35°	9550	10409	9550	8888
40°	7944	9839	7944	8499
45°	7084	9172	7084	8050
50°	7510	8376	7510	7601
55°	7045	7518	7045	7341
60°	7236	6385	7236	6723
65°	6529	5277	6529	5901
70°	4491	4207	4491	4946
75°	3896	3109	3896	3723
80°	3075	2056	3075	2238
85°	1673	1088	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10878 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°	529.1	12.1
30°-40°	631.6	14.4
40°-50°	635.3	14.5
50°-60°	552.8	12.6
60°-70°	391.9	8.9
70°-80°	207.3	4.7
80°-90°	52.2	1.2
90°-100°	69.6	1.6
100°-110°	182.9	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°	66.0	1.5
160°-170°	40.4	0.9
170°-180°	13.6	0.3
0°-30°	991.8	22.6
0°-40°	1623.4	37.0
0°-60°	2811.5	64.1
0°-90°	3462.9	78.9
90°-120°	442.1	10.1
90°-150°	805.1	18.3
90°-180°	925.0	21.1
0°-180°	4387.9	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	1371	1281	1145	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	468	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°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1346.7	1346.7	1354.4	1356.8	1356.8	1353.0	1349.3	1353.0	1364.4	1368.2	1367.0
5°	1341.7	1351.8	1365.7	1368.2	1370.7	1369.5	1367.0	1369.5	1382.1	1384.7	1385.9
7.5°	1331.6	1350.5	1368.2	1372.0	1375.8	1372.0	1370.7	1373.3	1385.9	1388.4	1388.4
10°	1319.0	1345.5	1365.7	1368.2	1372.0	1368.2	1368.2	1373.3	1385.9	1388.4	1389.7
12.5°	1301.3	1337.9	1356.8	1359.4	1364.4	1363.1	1361.9	1367.0	1379.6	1382.1	1382.1
15°	1281.0	1324.0	1341.7	1344.2	1353.0	1350.5	1350.5	1355.6	1369.5	1373.3	1372.0
17.5°	1253.3	1306.4	1326.5	1330.4	1336.7	1335.3	1336.7	1341.7	1354.4	1356.8	1358.1
20°	1221.6	1282.4	1306.4	1310.1	1316.4	1316.4	1316.4	1322.7	1335.3	1340.4	1340.4
22.5°	1178.7	1257.0	1282.4	1284.8	1292.4	1292.4	1295.0	1303.8	1315.1	1316.4	1316.4
25°	1128.2	1229.3	1250.7	1258.3	1265.9	1269.6	1273.5	1278.5	1282.4	1281.0	1282.4
27.5°	1075.1	1193.9	1221.6	1226.7	1236.8	1240.7	1245.6	1247.0	1248.2	1251.9	1249.5
30°	1015.8	1144.6	1186.3	1191.3	1207.8	1210.3	1205.3	1207.8	1214.1	1216.7	1219.1
32.5°	948.7	1071.3	1149.6	1161.0	1176.2	1168.6	1167.3	1171.1	1181.3	1181.3	1183.8
35°	857.8	1014.5	1115.6	1125.6	1137.0	1128.2	1133.2	1134.5	1140.8	1144.6	1143.3
37.5°	758.0	965.2	1080.2	1087.8	1096.6	1085.2	1092.8	1096.6	1101.6	1099.1	1099.1
40°	669.6	888.1	1038.5	1043.5	1051.1	1042.3	1049.8	1052.4	1054.9	1052.4	1051.1
42.5°	603.9	803.5	994.2	1000.6	995.5	1001.8	1004.4	1009.5	1005.6	1000.6	1000.6
45°	553.3	780.7	946.2	953.8	946.2	956.4	960.1	960.1	948.7	946.2	945.0
47.5°	536.9	735.3	898.2	898.2	894.4	907.0	913.5	904.6	893.2	889.5	889.5
50°	535.7	684.7	832.6	827.5	845.2	860.4	854.1	845.2	836.4	822.4	822.4
52.5°	486.4	622.9	747.9	766.9	794.7	803.5	793.4	784.6	769.4	763.0	758.0
55°	451.0	558.4	670.9	708.7	737.8	749.2	730.2	721.4	698.6	694.9	692.3
57.5°	443.5	464.9	600.1	648.1	683.5	682.2	670.9	654.4	635.5	631.7	630.4
60°	406.8	336.0	524.3	581.2	617.8	614.0	603.9	588.7	571.0	568.6	566.0
62.5°	368.9	243.8	438.4	502.9	554.6	553.3	544.6	521.8	509.2	502.9	497.8
65°	313.3	204.6	312.0	418.1	492.7	495.2	476.3	459.8	446.0	438.4	437.1
67.5°	238.8	166.8	210.9	348.7	433.3	430.8	406.8	399.2	381.5	377.7	370.1
70°	176.9	111.2	146.6	283.0	375.2	368.9	350.0	341.1	324.7	315.8	310.8
72.5°	146.6	89.7	107.4	219.8	315.8	308.3	291.8	281.7	267.8	260.3	255.2
75°	118.8	94.8	82.1	162.9	256.5	251.4	236.3	226.1	214.8	204.6	206.0
77.5°	87.2	88.4	65.7	120.0	203.4	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	116.3	116.3
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	31.6	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	31.6	31.6
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	36.0	25.8	18.2	17.4
95°	9.2	21.1	33.1	36.0	64.0	101.2	119.8	106.9	81.1	61.8	59.6
97.5°	15.9	26.4	36.9	39.6	86.2	148.2	179.3	171.2	154.8	142.6	138.4
100°	21.0	30.6	40.2	42.6	94.2	163.1	197.5	198.1	199.4	200.2	195.3
102.5°	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.9	249.5	245.2
105°	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.5	272.0	306.9	304.6
107.5°	40.6	47.6	54.7	56.4	101.2	160.8	190.7	223.2	288.1	336.9	337.4
110°	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0	344.5	346.9



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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	283.9	339.6	343.3
115°	58.5	64.1	69.6	71.0	101.4	141.8	162.0	197.7	269.4	323.0	328.1
117.5°	66.1	71.1	76.2	77.5	103.3	137.6	154.8	187.1	251.7	300.1	305.8
120°	70.5	75.3	80.0	81.2	104.7	136.2	151.8	181.4	240.5	284.8	290.2
122.5°	74.8	79.6	84.3	85.6	106.9	135.4	149.6	176.2	229.4	269.3	274.6
125°	81.4	85.8	90.2	91.3	110.0	134.8	147.3	169.8	215.0	248.9	253.9
127.5°	86.7	91.2	95.6	96.8	112.9	134.4	145.2	164.7	203.5	232.5	236.8
130°	89.6	94.4	99.2	100.4	115.1	134.7	144.5	161.8	196.3	222.2	226.0
132.5°	92.7	97.4	102.2	103.4	116.8	134.8	143.8	159.3	190.2	213.4	216.9
135°	97.1	101.4	105.8	106.8	118.8	134.7	142.7	155.6	181.5	200.9	203.9
137.5°	101.5	105.9	110.2	111.2	121.6	135.5	142.5	153.4	175.3	191.7	194.2
140°	105.3	109.2	113.2	114.2	123.3	135.7	141.8	151.3	170.2	184.4	186.6
142.5°	108.1	111.8	115.4	116.4	124.9	136.2	141.8	150.1	166.8	179.2	181.2
145°	112.5	115.7	119.0	119.7	126.8	136.2	140.8	147.6	161.2	171.4	173.0
147.5°	116.9	120.0	123.2	123.9	129.6	137.1	140.8	146.2	156.9	164.9	166.2
150°	119.8	122.6	125.5	126.1	131.0	137.6	140.8	145.3	154.4	161.2	162.2
152.5°	122.8	124.9	127.0	127.6	132.0	137.9	140.8	144.7	152.4	158.2	159.0
155°	127.2	128.7	130.3	130.7	134.1	138.6	140.8	143.9	150.1	154.7	155.2
157.5°	130.4	132.0	133.5	133.9	136.2	139.3	140.8	143.2	148.0	151.6	151.9
160°	132.6	133.8	135.0	135.3	137.1	139.6	140.8	142.9	147.0	150.0	150.2
162.5°	134.8	135.7	136.6	136.8	138.2	140.0	140.8	142.6	146.0	148.6	148.8
165°	137.2	138.0	138.8	139.0	139.6	140.5	140.8	142.1	144.6	146.4	146.6
167.5°	139.4	139.8	140.2	140.3	140.8	141.4	141.8	142.6	144.2	145.4	145.5
170°	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.6	144.2	145.4	145.4
172.5°	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.5	143.7	144.7	144.6
175°	142.7	142.7	142.7	142.7	142.4	142.0	141.8	142.2	143.0	143.6	143.6
177.5°	142.7	142.7	142.7	142.7	142.5	142.2	142.0	142.3	143.0	143.4	143.3
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1369.5	1365.7	1369.5	1367.0	1368.2	1364.4	1353.0	1349.3	1353.0	1356.8	1356.8
5°	1385.9	1383.4	1385.9	1385.9	1384.7	1382.1	1369.5	1367.0	1369.5	1370.7	1368.2
7.5°	1391.0	1387.1	1391.0	1388.4	1388.4	1385.9	1373.3	1370.7	1372.0	1375.8	1372.0
10°	1391.0	1387.1	1391.0	1389.7	1388.4	1385.9	1373.3	1368.2	1368.2	1372.0	1368.2
12.5°	1384.7	1382.1	1384.7	1382.1	1382.1	1379.6	1367.0	1361.9	1363.1	1364.4	1359.4
15°	1374.5	1370.7	1374.5	1372.0	1373.3	1369.5	1355.6	1350.5	1350.5	1353.0	1344.2
17.5°	1359.4	1354.4	1359.4	1358.1	1356.8	1354.4	1341.7	1336.7	1335.3	1336.7	1330.4
20°	1341.7	1337.9	1341.7	1340.4	1340.4	1335.3	1322.7	1316.4	1316.4	1316.4	1310.1
22.5°	1313.9	1310.1	1313.9	1316.4	1316.4	1315.1	1303.8	1295.0	1292.4	1292.4	1284.8
25°	1282.4	1278.5	1282.4	1282.4	1281.0	1282.4	1278.5	1273.5	1269.6	1265.9	1258.3
27.5°	1251.9	1249.5	1251.9	1249.5	1251.9	1248.2	1247.0	1245.6	1240.7	1236.8	1226.7
30°	1221.6	1219.1	1221.6	1219.1	1216.7	1214.1	1207.8	1205.3	1210.3	1207.8	1191.3
32.5°	1183.8	1181.3	1183.8	1183.8	1181.3	1181.3	1171.1	1167.3	1168.6	1176.2	1161.0
35°	1144.6	1140.8	1144.6	1143.3	1144.6	1140.8	1134.5	1133.2	1128.2	1137.0	1125.6
37.5°	1099.1	1095.3	1099.1	1099.1	1099.1	1101.6	1096.6	1092.8	1085.2	1096.6	1087.8
40°	1052.4	1047.3	1052.4	1051.1	1052.4	1054.9	1052.4	1049.8	1042.3	1051.1	1043.5
42.5°	999.3	998.1	999.3	1000.6	1000.6	1005.6	1009.5	1004.4	1001.8	995.5	1000.6
45°	942.4	939.9	942.4	945.0	946.2	948.7	960.1	960.1	956.4	946.2	953.8
47.5°	881.8	875.5	881.8	889.5	889.5	893.2	904.6	913.5	907.0	894.4	898.2
50°	817.4	818.7	817.4	822.4	822.4	836.4	845.2	854.1	860.4	845.2	827.5
52.5°	754.2	753.0	754.2	758.0	763.0	769.4	784.6	793.4	803.5	794.7	766.9
55°	691.0	693.6	691.0	692.3	694.9	698.6	721.4	730.2	749.2	737.8	708.7
57.5°	627.9	624.1	627.9	630.4	631.7	635.5	654.4	670.9	682.2	683.5	648.1
60°	554.6	549.5	554.6	566.0	568.6	571.0	588.7	603.9	614.0	617.8	581.2
62.5°	490.1	481.3	490.1	497.8	502.9	509.2	521.8	544.6	553.3	554.6	502.9
65°	422.0	418.1	422.0	437.1	438.4	446.0	459.8	476.3	495.2	492.7	418.1
67.5°	360.1	360.1	360.1	370.1	377.7	381.5	399.2	406.8	430.8	433.3	348.7
70°	303.2	302.0	303.2	310.8	315.8	324.7	341.1	350.0	368.9	375.2	283.0
72.5°	248.9	247.7	248.9	255.2	260.3	267.8	281.7	291.8	308.3	315.8	219.8
75°	200.9	198.3	200.9	206.0	204.6	214.8	226.1	236.3	251.4	256.5	162.9
77.5°	154.1	154.1	154.1	159.2	159.2	169.2	174.3	186.9	195.8	203.4	120.0
80°	114.9	113.7	114.9	116.3	116.3	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	31.6
87.5°	32.9	31.6	32.9	31.6	31.6	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	36.0	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	101.2	64.0	36.0
97.5°	121.7	105.1	121.7	138.4	142.6	154.8	171.2	179.3	148.2	86.2	39.6
100°	175.5	155.6	175.5	195.3	200.2	199.4	198.1	197.5	163.1	94.2	42.6
102.5°	228.1	211.1	228.1	245.2	249.5	233.9	213.1	202.7	167.8	97.9	45.5
105°	295.6	286.4	295.6	304.6	306.9	272.0	225.5	202.1	168.3	100.7	49.9
107.5°	339.6	341.8	339.6	337.4	336.9	288.1	223.2	190.7	160.8	101.2	56.4
110°	356.4	365.9	356.4	346.9	344.5	290.0	217.4	181.1	154.2	100.4	60.0



TEST NUMBER: P934036

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	357.9	372.5	357.9	343.3	339.6	283.9	209.6	172.4	148.4	100.4	64.4
115°	348.4	368.7	348.4	328.1	323.0	269.4	197.7	162.0	141.8	101.4	71.0
117.5°	328.3	350.8	328.3	305.8	300.1	251.7	187.1	154.8	137.6	103.3	77.5
120°	312.1	333.9	312.1	290.2	284.8	240.5	181.4	151.8	136.2	104.7	81.2
122.5°	296.2	317.8	296.2	274.6	269.3	229.4	176.2	149.6	135.4	106.9	85.6
125°	273.8	293.6	273.8	253.9	248.9	215.0	169.8	147.3	134.8	110.0	91.3
127.5°	253.5	270.2	253.5	236.8	232.5	203.5	164.7	145.2	134.4	112.9	96.8
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	244.6	230.7	216.9	213.4	190.2	159.3	143.8	134.8	116.8	103.4
135°	215.9	227.9	215.9	203.9	200.9	181.5	155.6	142.7	134.7	118.8	106.8
137.5°	204.0	213.8	204.0	194.2	191.7	175.3	153.4	142.5	135.5	121.6	111.2
140°	195.7	204.9	195.7	186.6	184.4	170.2	151.3	141.8	135.7	123.3	114.2
142.5°	189.0	196.9	189.0	181.2	179.2	166.8	150.1	141.8	136.2	124.9	116.4
145°	178.9	184.8	178.9	173.0	171.4	161.2	147.6	140.8	136.2	126.8	119.7
147.5°	171.1	176.0	171.1	166.2	164.9	156.9	146.2	140.8	137.1	129.6	123.9
150°	166.2	170.2	166.2	162.2	161.2	154.4	145.3	140.8	137.6	131.0	126.1
152.5°	162.0	165.0	162.0	159.0	158.2	152.4	144.7	140.8	137.9	132.0	127.6
155°	157.2	159.2	157.2	155.2	154.7	150.1	143.9	140.8	138.6	134.1	130.7
157.5°	153.4	154.8	153.4	151.9	151.6	148.0	143.2	140.8	139.3	136.2	133.9
160°	151.1	151.8	151.1	150.2	150.0	147.0	142.9	140.8	139.6	137.1	135.3
162.5°	149.5	150.3	149.5	148.8	148.6	146.0	142.6	140.8	140.0	138.2	136.8
165°	147.4	148.2	147.4	146.6	146.4	144.6	142.1	140.8	140.5	139.6	139.0
167.5°	145.8	146.2	145.8	145.5	145.4	144.2	142.6	141.8	141.4	140.8	140.3
170°	145.4	145.4	145.4	145.4	145.4	144.2	142.6	141.8	141.8	141.7	141.7
172.5°	144.3	144.0	144.3	144.6	144.7	143.7	142.5	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	142.4	142.7
177.5°	143.0	142.7	143.0	143.3	143.4	143.0	142.3	142.0	142.2	142.5	142.7
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



TEST NUMBER: P934036

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1354.4	1346.7	1346.7	1334.1	1329.0	1325.3	1319.0	1300.0	1295.0	1289.9	1297.5
5°	1365.7	1351.8	1341.7	1319.0	1300.0	1292.4	1268.4	1223.0	1192.6	1169.9	1157.3
7.5°	1368.2	1350.5	1331.6	1296.2	1250.7	1230.5	1157.3	1073.9	1051.1	1030.9	1018.2
10°	1365.7	1345.5	1319.0	1265.9	1158.5	1123.1	1049.8	995.5	981.6	977.8	981.6
12.5°	1356.8	1337.9	1301.3	1212.8	1062.5	1038.5	995.5	963.9	961.5	967.8	1001.8
15°	1341.7	1324.0	1281.0	1142.1	1009.5	991.8	961.5	950.1	963.9	1008.1	1110.5
17.5°	1326.5	1306.4	1253.3	1072.6	969.0	956.4	934.9	957.6	1035.9	1095.3	1129.5
20°	1306.4	1282.4	1221.6	1022.1	939.9	928.6	918.4	1020.8	1080.2	1101.6	1120.6
22.5°	1282.4	1257.0	1178.7	986.7	909.6	900.7	907.0	1056.2	1080.2	1095.3	1111.8
25°	1250.7	1229.3	1128.2	958.9	885.6	875.5	899.5	1052.4	1066.3	1070.1	1102.9
27.5°	1221.6	1193.9	1075.1	933.6	856.6	852.7	905.8	1035.9	1046.1	1049.8	1085.2
30°	1186.3	1144.6	1015.8	907.0	826.2	825.0	907.0	1015.8	1013.2	1023.3	1058.7
32.5°	1149.6	1071.3	948.7	874.2	797.2	795.9	898.2	985.5	982.9	996.8	1023.3
35°	1115.6	1014.5	857.8	836.4	760.6	761.8	876.7	950.1	951.3	963.9	980.4
37.5°	1080.2	965.2	758.0	794.7	725.2	725.2	847.7	917.2	914.7	918.4	941.2
40°	1038.5	888.1	669.6	740.3	692.3	688.6	812.4	881.8	873.0	871.8	903.3
42.5°	994.2	803.5	603.9	668.3	654.4	649.4	769.4	838.9	822.4	826.2	866.7
45°	946.2	780.7	553.3	564.7	615.2	611.5	722.6	789.6	778.2	788.4	830.1
47.5°	898.2	735.3	536.9	468.7	573.5	572.3	670.9	741.6	735.3	745.4	789.6
50°	832.6	684.7	535.7	401.8	526.9	531.8	608.9	694.9	694.9	703.7	750.4
52.5°	747.9	622.9	486.4	363.8	472.5	487.7	554.6	654.4	656.9	665.8	707.5
55°	670.9	558.4	451.0	334.8	408.1	440.9	501.5	612.7	617.8	626.6	664.6
57.5°	600.1	464.9	443.5	300.7	348.7	380.3	454.8	572.3	574.9	582.4	619.0
60°	524.3	336.0	406.8	264.0	296.9	320.9	411.8	524.3	533.2	538.1	569.8
62.5°	438.4	243.8	368.9	238.8	271.7	276.7	376.5	478.8	490.1	494.0	512.9
65°	312.0	204.6	313.3	217.3	245.1	246.3	338.6	432.1	442.1	448.5	462.4
67.5°	210.9	166.8	238.8	197.1	224.9	226.1	302.0	377.7	391.7	396.7	405.5
70°	146.6	111.2	176.9	175.7	202.1	204.6	262.8	328.5	341.1	344.9	350.0
72.5°	107.4	89.7	146.6	158.0	178.1	180.6	222.3	272.9	285.5	289.3	291.8
75°	82.1	94.8	118.8	137.7	151.6	152.9	182.0	222.3	231.2	233.7	234.9
77.5°	65.7	88.4	87.2	111.2	123.8	121.2	142.8	171.8	179.4	179.4	179.4
80°	49.2	69.5	65.7	79.6	90.9	88.4	102.3	122.6	125.1	127.6	126.3
82.5°	36.6	44.2	44.2	50.5	60.6	58.1	68.2	79.6	79.6	79.6	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	36.0	25.8
95°	33.1	21.1	9.2	21.1	33.1	36.0	64.0	101.2	119.8	106.9	81.1
97.5°	36.9	26.4	15.9	26.4	36.9	39.6	86.2	148.2	179.3	171.2	154.8
100°	40.2	30.6	21.0	30.6	40.2	42.6	94.2	163.1	197.5	198.1	199.4
102.5°	43.3	34.3	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.9
105°	48.0	40.5	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.5	272.0
107.5°	54.7	47.6	40.6	47.6	54.7	56.4	101.2	160.8	190.7	223.2	288.1
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: P934036

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-6500K

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	283.9
115°	69.6	64.1	58.5	64.1	69.6	71.0	101.4	141.8	162.0	197.7	269.4
117.5°	76.2	71.1	66.1	71.1	76.2	77.5	103.3	137.6	154.8	187.1	251.7
120°	80.0	75.3	70.5	75.3	80.0	81.2	104.7	136.2	151.8	181.4	240.5
122.5°	84.3	79.6	74.8	79.6	84.3	85.6	106.9	135.4	149.6	176.2	229.4
125°	90.2	85.8	81.4	85.8	90.2	91.3	110.0	134.8	147.3	169.8	215.0
127.5°	95.6	91.2	86.7	91.2	95.6	96.8	112.9	134.4	145.2	164.7	203.5
130°	99.2	94.4	89.6	94.4	99.2	100.4	115.1	134.7	144.5	161.8	196.3
132.5°	102.2	97.4	92.7	97.4	102.2	103.4	116.8	134.8	143.8	159.3	190.2
135°	105.8	101.4	97.1	101.4	105.8	106.8	118.8	134.7	142.7	155.6	181.5
137.5°	110.2	105.9	101.5	105.9	110.2	111.2	121.6	135.5	142.5	153.4	175.3
140°	113.2	109.2	105.3	109.2	113.2	114.2	123.3	135.7	141.8	151.3	170.2
142.5°	115.4	111.8	108.1	111.8	115.4	116.4	124.9	136.2	141.8	150.1	166.8
145°	119.0	115.7	112.5	115.7	119.0	119.7	126.8	136.2	140.8	147.6	161.2
147.5°	123.2	120.0	116.9	120.0	123.2	123.9	129.6	137.1	140.8	146.2	156.9
150°	125.5	122.6	119.8	122.6	125.5	126.1	131.0	137.6	140.8	145.3	154.4
152.5°	127.0	124.9	122.8	124.9	127.0	127.6	132.0	137.9	140.8	144.7	152.4
155°	130.3	128.7	127.2	128.7	130.3	130.7	134.1	138.6	140.8	143.9	150.1
157.5°	133.5	132.0	130.4	132.0	133.5	133.9	136.2	139.3	140.8	143.2	148.0
160°	135.0	133.8	132.6	133.8	135.0	135.3	137.1	139.6	140.8	142.9	147.0
162.5°	136.6	135.7	134.8	135.7	136.6	136.8	138.2	140.0	140.8	142.6	146.0
165°	138.8	138.0	137.2	138.0	138.8	139.0	139.6	140.5	140.8	142.1	144.6
167.5°	140.2	139.8	139.4	139.8	140.2	140.3	140.8	141.4	141.8	142.6	144.2
170°	141.6	141.2	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.6	144.2
172.5°	141.8	141.7	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.5	143.7
175°	142.7	142.7	142.7	142.7	142.7	142.7	142.4	142.0	141.8	142.2	143.0
177.5°	142.7	142.7	142.7	142.7	142.7	142.7	142.5	142.2	142.0	142.3	143.0
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



TEST NUMBER: P934036

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1288.7	1284.8	1289.9	1275.9	1289.9	1284.8	1288.7	1297.5	1289.9	1295.0	1300.0
5°	1130.7	1124.4	1104.2	1087.8	1104.2	1124.4	1130.7	1157.3	1169.9	1192.6	1223.0
7.5°	1010.7	1005.6	1000.6	990.4	1000.6	1005.6	1010.7	1018.2	1030.9	1051.1	1073.9
10°	984.1	985.5	993.0	991.8	993.0	985.5	984.1	981.6	977.8	981.6	995.5
12.5°	1052.4	1063.8	1105.5	1102.9	1105.5	1063.8	1052.4	1001.8	967.8	961.5	963.9
15°	1130.7	1134.5	1143.3	1144.6	1143.3	1134.5	1130.7	1110.5	1008.1	963.9	950.1
17.5°	1138.3	1139.6	1145.9	1145.9	1145.9	1139.6	1138.3	1129.5	1095.3	1035.9	957.6
20°	1131.9	1134.5	1147.1	1149.6	1147.1	1134.5	1131.9	1120.6	1101.6	1080.2	1020.8
22.5°	1129.5	1134.5	1144.6	1143.3	1144.6	1134.5	1129.5	1111.8	1095.3	1080.2	1056.2
25°	1116.8	1116.8	1118.1	1119.3	1118.1	1116.8	1116.8	1102.9	1070.1	1066.3	1052.4
27.5°	1090.3	1092.8	1100.4	1099.1	1100.4	1092.8	1090.3	1085.2	1049.8	1046.1	1035.9
30°	1066.3	1063.8	1057.5	1052.4	1057.5	1063.8	1066.3	1058.7	1023.3	1013.2	1015.8
32.5°	1025.8	1019.5	1013.2	1009.5	1013.2	1019.5	1025.8	1023.3	996.8	982.9	985.5
35°	977.8	979.1	977.8	974.1	977.8	979.1	977.8	980.4	963.9	951.3	950.1
37.5°	943.8	946.2	945.0	939.9	945.0	946.2	943.8	941.2	918.4	914.7	917.2
40°	908.4	909.6	908.4	904.6	908.4	909.6	908.4	903.3	871.8	873.0	881.8
42.5°	874.2	873.0	869.2	866.7	869.2	873.0	874.2	866.7	826.2	822.4	838.9
45°	835.0	836.4	828.7	825.0	828.7	836.4	835.0	830.1	788.4	778.2	789.6
47.5°	795.9	795.9	789.6	785.8	789.6	795.9	795.9	789.6	745.4	735.3	741.6
50°	754.2	753.0	744.1	742.9	744.1	753.0	754.2	750.4	703.7	694.9	694.9
52.5°	706.2	706.2	707.5	710.0	707.5	706.2	706.2	707.5	665.8	656.9	654.4
55°	664.6	665.8	674.6	677.2	674.6	665.8	664.6	664.6	626.6	617.8	612.7
57.5°	621.5	621.5	627.9	627.9	627.9	621.5	621.5	619.0	582.4	574.9	572.3
60°	572.3	574.9	579.8	578.6	579.8	574.9	572.3	569.8	538.1	533.2	524.3
62.5°	520.5	523.0	524.3	521.8	524.3	523.0	520.5	512.9	494.0	490.1	478.8
65°	466.1	468.7	470.0	467.5	470.0	468.7	466.1	462.4	448.5	442.1	432.1
67.5°	410.6	409.3	408.1	413.1	408.1	409.3	410.6	405.5	396.7	391.7	377.7
70°	353.7	353.7	352.5	355.0	352.5	353.7	353.7	350.0	344.9	341.1	328.5
72.5°	293.1	291.8	296.9	293.1	296.9	291.8	293.1	291.8	289.3	285.5	272.9
75°	233.7	236.3	233.7	237.5	233.7	236.3	233.7	234.9	233.7	231.2	222.3
77.5°	178.1	180.6	178.1	178.1	178.1	180.6	178.1	179.4	179.4	179.4	171.8
80°	126.3	125.1	125.1	123.8	125.1	125.1	126.3	126.3	127.6	125.1	122.6
82.5°	80.9	79.6	79.6	82.1	79.6	79.6	80.9	82.1	79.6	79.6	79.6
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	36.0	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	101.2
97.5°	142.6	138.4	121.7	105.1	121.7	138.4	142.6	154.8	171.2	179.3	148.2
100°	200.2	195.3	175.5	155.6	175.5	195.3	200.2	199.4	198.1	197.5	163.1
102.5°	249.5	245.2	228.1	211.1	228.1	245.2	249.5	233.9	213.1	202.7	167.8
105°	306.9	304.6	295.6	286.4	295.6	304.6	306.9	272.0	225.5	202.1	168.3
107.5°	336.9	337.4	339.6	341.8	339.6	337.4	336.9	288.1	223.2	190.7	160.8
110°	344.5	346.9	356.4	365.9	356.4	346.9	344.5	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	343.3	357.9	372.5	357.9	343.3	339.6	283.9	209.6	172.4	148.4
115°	323.0	328.1	348.4	368.7	348.4	328.1	323.0	269.4	197.7	162.0	141.8
117.5°	300.1	305.8	328.3	350.8	328.3	305.8	300.1	251.7	187.1	154.8	137.6
120°	284.8	290.2	312.1	333.9	312.1	290.2	284.8	240.5	181.4	151.8	136.2
122.5°	269.3	274.6	296.2	317.8	296.2	274.6	269.3	229.4	176.2	149.6	135.4
125°	248.9	253.9	273.8	293.6	273.8	253.9	248.9	215.0	169.8	147.3	134.8
127.5°	232.5	236.8	253.5	270.2	253.5	236.8	232.5	203.5	164.7	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	216.9	230.7	244.6	230.7	216.9	213.4	190.2	159.3	143.8	134.8
135°	200.9	203.9	215.9	227.9	215.9	203.9	200.9	181.5	155.6	142.7	134.7
137.5°	191.7	194.2	204.0	213.8	204.0	194.2	191.7	175.3	153.4	142.5	135.5
140°	184.4	186.6	195.7	204.9	195.7	186.6	184.4	170.2	151.3	141.8	135.7
142.5°	179.2	181.2	189.0	196.9	189.0	181.2	179.2	166.8	150.1	141.8	136.2
145°	171.4	173.0	178.9	184.8	178.9	173.0	171.4	161.2	147.6	140.8	136.2
147.5°	164.9	166.2	171.1	176.0	171.1	166.2	164.9	156.9	146.2	140.8	137.1
150°	161.2	162.2	166.2	170.2	166.2	162.2	161.2	154.4	145.3	140.8	137.6
152.5°	158.2	159.0	162.0	165.0	162.0	159.0	158.2	152.4	144.7	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	138.6
157.5°	151.6	151.9	153.4	154.8	153.4	151.9	151.6	148.0	143.2	140.8	139.3
160°	150.0	150.2	151.1	151.8	151.1	150.2	150.0	147.0	142.9	140.8	139.6
162.5°	148.6	148.8	149.5	150.3	149.5	148.8	148.6	146.0	142.6	140.8	140.0
165°	146.4	146.6	147.4	148.2	147.4	146.6	146.4	144.6	142.1	140.8	140.5
167.5°	145.4	145.5	145.8	146.2	145.8	145.5	145.4	144.2	142.6	141.8	141.4
170°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	144.2	142.6	141.8	141.8
172.5°	144.7	144.6	144.3	144.0	144.3	144.6	144.7	143.7	142.5	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	142.7	143.0	143.3	143.4	143.0	142.3	142.0	142.2
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1319.0	1325.3	1329.0	1334.1	1346.7
5°	1268.4	1292.4	1300.0	1319.0	1341.7
7.5°	1157.3	1230.5	1250.7	1296.2	1331.6
10°	1049.8	1123.1	1158.5	1265.9	1319.0
12.5°	995.5	1038.5	1062.5	1212.8	1301.3
15°	961.5	991.8	1009.5	1142.1	1281.0
17.5°	934.9	956.4	969.0	1072.6	1253.3
20°	918.4	928.6	939.9	1022.1	1221.6
22.5°	907.0	900.7	909.6	986.7	1178.7
25°	899.5	875.5	885.6	958.9	1128.2
27.5°	905.8	852.7	856.6	933.6	1075.1
30°	907.0	825.0	826.2	907.0	1015.8
32.5°	898.2	795.9	797.2	874.2	948.7
35°	876.7	761.8	760.6	836.4	857.8
37.5°	847.7	725.2	725.2	794.7	758.0
40°	812.4	688.6	692.3	740.3	669.6
42.5°	769.4	649.4	654.4	668.3	603.9
45°	722.6	611.5	615.2	564.7	553.3
47.5°	670.9	572.3	573.5	468.7	536.9
50°	608.9	531.8	526.9	401.8	535.7
52.5°	554.6	487.7	472.5	363.8	486.4
55°	501.5	440.9	408.1	334.8	451.0
57.5°	454.8	380.3	348.7	300.7	443.5
60°	411.8	320.9	296.9	264.0	406.8
62.5°	376.5	276.7	271.7	238.8	368.9
65°	338.6	246.3	245.1	217.3	313.3
67.5°	302.0	226.1	224.9	197.1	238.8
70°	262.8	204.6	202.1	175.7	176.9
72.5°	222.3	180.6	178.1	158.0	146.6
75°	182.0	152.9	151.6	137.7	118.8
77.5°	142.8	121.2	123.8	111.2	87.2
80°	102.3	88.4	90.9	79.6	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°	86.2	39.6	36.9	26.4	15.9
100°	94.2	42.6	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°	101.2	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°	101.4	71.0	69.6	64.1	58.5
117.5°	103.3	77.5	76.2	71.1	66.1
120°	104.7	81.2	80.0	75.3	70.5
122.5°	106.9	85.6	84.3	79.6	74.8
125°	110.0	91.3	90.2	85.8	81.4
127.5°	112.9	96.8	95.6	91.2	86.7
130°	115.1	100.4	99.2	94.4	89.6
132.5°	116.8	103.4	102.2	97.4	92.7
135°	118.8	106.8	105.8	101.4	97.1
137.5°	121.6	111.2	110.2	105.9	101.5
140°	123.3	114.2	113.2	109.2	105.3
142.5°	124.9	116.4	115.4	111.8	108.1
145°	126.8	119.7	119.0	115.7	112.5
147.5°	129.6	123.9	123.2	120.0	116.9
150°	131.0	126.1	125.5	122.6	119.8
152.5°	132.0	127.6	127.0	124.9	122.8
155°	134.1	130.7	130.3	128.7	127.2
157.5°	136.2	133.9	133.5	132.0	130.4
160°	137.1	135.3	135.0	133.8	132.6
162.5°	138.2	136.8	136.6	135.7	134.8
165°	139.6	139.0	138.8	138.0	137.2
167.5°	140.8	140.3	140.2	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°	142.4	142.7	142.7	142.7	142.7
177.5°	142.5	142.7	142.7	142.7	142.7
180°	142.7	142.7	142.7	142.7	142.7



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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	19.22	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	18.29	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	20.36	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	19.98	20.38	21.36	21.95	22.36	22.74	23.15	24.13