

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: P934122

Luminaire Tested: SQ4-FA-025U-125D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

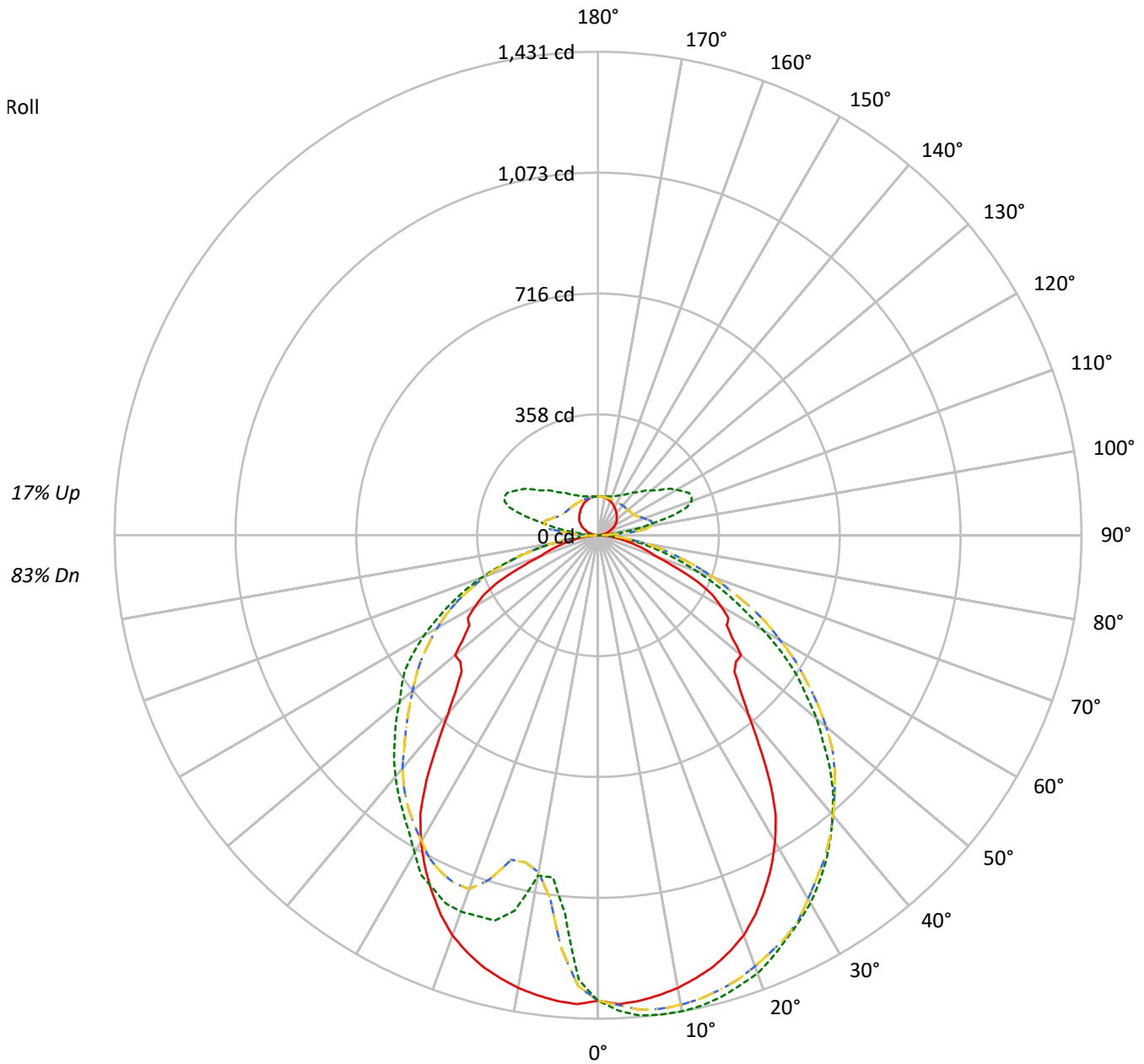
Test Method: LM-79-2019  
Report Number: P934122  
REPORT IS A COMBINATION OF REPORTS P933686 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-125D-927-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4316.6 lumens  
Efficiency: N/A  
Efficacy: 87.0 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): 49.6  
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12781	12781	12781	12781
5°	12862	12902	12862	10145
10°	12762	12709	12762	9086
15°	12609	12434	12609	10382
20°	12331	12108	12331	10404
25°	11776	11631	11776	10183
30°	11066	11237	11066	9700
35°	9850	10737	9850	9168
40°	8193	10148	8193	8765
45°	7307	9460	7307	8303
50°	7745	8639	7745	7839
55°	7266	7755	7266	7572
60°	7464	6587	7464	6934
65°	6735	5445	6735	6087
70°	4631	4340	4631	5100
75°	4017	3208	4017	3841
80°	3173	2121	3173	2309
85°	1731	1123	1731	954

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11221 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	2.9
10°-20°	353.0	8.2
20°-30°	545.7	12.6
30°-40°	651.4	15.1
40°-50°	655.3	15.2
50°-60°	570.2	13.2
60°-70°	404.2	9.4
70°-80°	213.9	5.0
80°-90°	53.7	1.2
90°-100°	56.0	1.3
100°-110°	147.3	3.4
110°-120°	152.7	3.5
120°-130°	122.5	2.8
130°-140°	96.1	2.2
140°-150°	73.8	1.7
150°-160°	53.1	1.2
160°-170°	32.5	0.8
170°-180°	11.0	0.3
0°-30°	1023.0	23.7
0°-40°	1674.5	38.8
0°-60°	2899.9	67.2
0°-90°	3571.7	82.7
90°-120°	356.0	8.2
90°-150°	648.3	15.0
90°-180°	745.0	17.3
0°-180°	4316.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1377	1377	1377	1377	1377	
5°	1384	1427	1384	1122	1384	131
15°	1321	1414	1321	1181	1321	372
25°	1164	1319	1164	1154	1164	534
35°	885	1177	885	1005	885	547
45°	571	970	571	851	571	457
55°	465	715	465	698	465	427
65°	323	431	323	482	323	309
75°	122	205	122	245	122	129
85°	21	52	21	44	21	28
90°	1	3	1	3	1	2
95°	7	34	7	34	7	8
105°	27	231	27	231	27	28
115°	47	297	47	297	47	47
125°	66	236	66	236	66	58
135°	78	184	78	184	78	60
145°	91	149	91	149	91	57
155°	102	128	102	128	102	47
165°	110	119	110	119	110	31
175°	115	116	115	116	115	11
180°	115	115	115	115	115	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1389.1	1389.1	1396.9	1399.6	1399.6	1395.6	1391.7	1395.6	1407.3	1411.3	1409.9
5°	1383.8	1394.3	1408.6	1411.3	1413.9	1412.6	1409.9	1412.6	1425.6	1428.2	1429.5
7.5°	1373.4	1393.0	1411.3	1415.2	1419.0	1415.2	1413.9	1416.5	1429.5	1432.1	1432.1
10°	1360.4	1387.8	1408.6	1411.3	1415.2	1411.3	1411.3	1416.5	1429.5	1432.1	1433.4
12.5°	1342.2	1380.0	1399.6	1402.1	1407.3	1406.0	1404.7	1409.9	1423.0	1425.6	1425.6
15°	1321.3	1365.7	1383.8	1386.5	1395.6	1393.0	1393.0	1398.2	1412.6	1416.5	1415.2
17.5°	1292.7	1347.4	1368.2	1372.1	1378.7	1377.4	1378.7	1383.8	1396.9	1399.6	1400.8
20°	1260.1	1322.6	1347.4	1351.3	1357.8	1357.8	1357.8	1364.4	1377.4	1382.6	1382.6
22.5°	1215.8	1296.6	1322.6	1325.2	1333.0	1333.0	1335.6	1344.8	1356.5	1357.8	1357.8
25°	1163.6	1267.9	1290.1	1297.9	1305.7	1309.6	1313.5	1318.7	1322.6	1321.3	1322.6
27.5°	1109.0	1231.4	1260.1	1265.3	1275.7	1279.7	1284.8	1286.1	1287.4	1291.4	1288.7
30°	1047.7	1180.6	1223.6	1228.8	1245.8	1248.3	1243.2	1245.8	1252.3	1254.9	1257.5
32.5°	978.6	1105.0	1185.8	1197.5	1213.2	1205.4	1204.0	1208.0	1218.4	1218.4	1221.0
35°	884.8	1046.4	1150.6	1161.1	1172.8	1163.6	1168.9	1170.2	1176.7	1180.6	1179.3
37.5°	781.9	995.5	1114.1	1122.0	1131.1	1119.3	1127.2	1131.1	1136.3	1133.7	1133.7
40°	690.6	916.1	1071.1	1076.4	1084.2	1075.1	1082.9	1085.5	1088.1	1085.5	1084.2
42.5°	622.9	828.8	1025.6	1032.0	1026.8	1033.3	1036.0	1041.2	1037.3	1032.0	1032.0
45°	570.7	805.3	976.0	983.8	976.0	986.4	990.4	990.4	978.6	976.0	974.7
47.5°	553.8	758.4	926.5	926.5	922.6	935.6	942.1	933.0	921.3	917.4	917.4
50°	552.5	706.2	858.7	853.5	871.8	887.4	880.9	871.8	862.6	848.3	848.3
52.5°	501.7	642.4	771.5	790.9	819.7	828.8	818.4	809.2	793.6	787.1	781.9
55°	465.2	576.0	691.9	731.0	761.0	772.7	753.2	744.1	720.6	716.7	714.1
57.5°	457.4	479.6	619.0	668.5	704.9	703.7	691.9	675.0	655.4	651.6	650.3
60°	419.6	346.7	540.8	599.4	637.2	633.3	622.9	607.2	589.0	586.4	583.8
62.5°	380.5	251.5	452.1	518.6	572.0	570.7	561.6	538.2	525.1	518.6	513.4
65°	323.2	211.1	321.9	431.4	508.2	510.8	491.3	474.3	460.0	452.1	450.8
67.5°	246.2	172.0	217.6	359.7	447.0	444.4	419.6	411.8	393.5	389.6	381.8
70°	182.4	114.7	151.2	291.9	387.0	380.5	361.0	351.8	334.9	325.8	320.6
72.5°	151.2	92.6	110.7	226.8	325.8	317.9	301.0	290.6	276.3	268.4	263.2
75°	122.5	97.7	84.7	168.1	264.5	259.3	243.7	233.2	221.5	211.1	212.4
77.5°	89.9	91.2	67.8	123.8	209.8	202.0	192.9	179.8	174.6	164.2	164.2
80°	67.8	71.7	50.8	84.7	151.2	151.2	143.4	134.2	125.1	119.9	119.9
82.5°	45.6	45.6	37.8	53.4	102.9	99.0	93.8	91.2	86.0	83.4	83.4
85°	20.9	26.0	23.5	32.6	56.1	58.7	58.7	56.1	54.7	52.1	53.4
87.5°	6.5	11.7	14.3	18.2	28.6	30.0	31.3	31.3	31.3	32.6	32.6
90°	0.8	1.4	2.0	2.2	3.4	5.0	5.9	5.2	3.9	2.9	2.9
92.5°	3.1	8.3	13.6	14.9	20.9	29.0	33.0	29.0	20.8	14.6	14.0
95°	7.4	17.0	26.6	29.0	51.5	81.5	96.5	86.1	65.3	49.7	48.0
97.5°	12.8	21.3	29.7	31.9	69.4	119.4	144.4	137.8	124.7	114.8	111.4
100°	16.9	24.6	32.3	34.3	75.8	131.4	159.1	159.5	160.5	161.2	157.2
102.5°	20.5	27.6	34.9	36.7	78.8	135.1	163.2	171.6	188.3	200.9	197.4
105°	26.6	32.6	38.7	40.2	81.1	135.5	162.8	181.6	219.1	247.2	245.3
107.5°	32.7	38.3	44.0	45.4	81.5	129.5	153.5	179.7	232.0	271.3	271.7
110°	36.9	42.0	47.0	48.4	80.9	124.2	145.8	175.1	233.5	277.4	279.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	41.0	45.8	50.7	51.9	80.9	119.5	138.8	168.8	228.6	273.5	276.4
115°	47.1	51.6	56.1	57.2	81.6	114.2	130.4	159.2	216.9	260.1	264.2
117.5°	53.2	57.3	61.4	62.4	83.2	110.8	124.7	150.7	202.7	241.7	246.2
120°	56.7	60.6	64.4	65.4	84.3	109.6	122.3	146.1	193.7	229.3	233.7
122.5°	60.2	64.1	67.9	68.9	86.1	109.0	120.5	141.9	184.7	216.8	221.1
125°	65.5	69.1	72.6	73.5	88.6	108.6	118.6	136.8	173.2	200.4	204.4
127.5°	69.8	73.5	77.0	77.9	90.9	108.3	117.0	132.6	163.9	187.3	190.7
130°	72.1	76.0	79.8	80.9	92.7	108.5	116.3	130.3	158.1	178.9	182.0
132.5°	74.6	78.5	82.3	83.2	94.1	108.6	115.8	128.3	153.2	171.9	174.6
135°	78.2	81.6	85.2	86.0	95.6	108.5	114.9	125.3	146.1	161.8	164.2
137.5°	81.8	85.2	88.7	89.6	97.9	109.1	114.7	123.5	141.1	154.4	156.4
140°	84.8	87.9	91.2	91.9	99.3	109.3	114.2	121.8	137.1	148.5	150.3
142.5°	87.1	90.0	92.9	93.7	100.6	109.6	114.2	120.9	134.3	144.3	145.9
145°	90.6	93.2	95.8	96.4	102.1	109.6	113.4	118.9	129.8	138.1	139.3
147.5°	94.2	96.6	99.2	99.8	104.3	110.4	113.4	117.7	126.4	132.8	133.8
150°	96.5	98.7	101.0	101.6	105.5	110.8	113.4	117.0	124.4	129.8	130.6
152.5°	98.9	100.6	102.3	102.7	106.3	111.0	113.4	116.5	122.7	127.4	128.1
155°	102.4	103.6	105.0	105.3	108.0	111.6	113.4	115.9	120.9	124.6	125.0
157.5°	105.0	106.3	107.5	107.8	109.6	112.2	113.4	115.3	119.2	122.0	122.4
160°	106.8	107.7	108.7	109.0	110.4	112.4	113.4	115.0	118.3	120.8	121.0
162.5°	108.6	109.3	110.0	110.2	111.3	112.7	113.4	114.8	117.6	119.7	119.8
165°	110.5	111.1	111.8	112.0	112.4	113.1	113.4	114.4	116.4	117.9	118.0
167.5°	112.3	112.6	112.9	113.0	113.3	113.9	114.2	114.8	116.1	117.1	117.2
170°	113.4	113.7	114.0	114.1	114.1	114.2	114.2	114.8	116.1	117.1	117.1
172.5°	114.0	114.1	114.2	114.2	114.2	114.2	114.2	114.7	115.7	116.5	116.4
175°	114.9	114.9	114.9	114.9	114.7	114.3	114.2	114.5	115.2	115.7	115.7
177.5°	114.9	114.9	114.9	114.9	114.7	114.5	114.3	114.6	115.1	115.5	115.4
180°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1412.6	1408.6	1412.6	1409.9	1411.3	1407.3	1395.6	1391.7	1395.6	1399.6	1399.6
5°	1429.5	1426.9	1429.5	1429.5	1428.2	1425.6	1412.6	1409.9	1412.6	1413.9	1411.3
7.5°	1434.7	1430.8	1434.7	1432.1	1432.1	1429.5	1416.5	1413.9	1415.2	1419.0	1415.2
10°	1434.7	1430.8	1434.7	1433.4	1432.1	1429.5	1416.5	1411.3	1411.3	1415.2	1411.3
12.5°	1428.2	1425.6	1428.2	1425.6	1425.6	1423.0	1409.9	1404.7	1406.0	1407.3	1402.1
15°	1417.7	1413.9	1417.7	1415.2	1416.5	1412.6	1398.2	1393.0	1393.0	1395.6	1386.5
17.5°	1402.1	1396.9	1402.1	1400.8	1399.6	1396.9	1383.8	1378.7	1377.4	1378.7	1372.1
20°	1383.8	1380.0	1383.8	1382.6	1382.6	1377.4	1364.4	1357.8	1357.8	1357.8	1351.3
22.5°	1355.2	1351.3	1355.2	1357.8	1357.8	1356.5	1344.8	1335.6	1333.0	1333.0	1325.2
25°	1322.6	1318.7	1322.6	1322.6	1321.3	1322.6	1318.7	1313.5	1309.6	1305.7	1297.9
27.5°	1291.4	1288.7	1291.4	1288.7	1291.4	1287.4	1286.1	1284.8	1279.7	1275.7	1265.3
30°	1260.1	1257.5	1260.1	1257.5	1254.9	1252.3	1245.8	1243.2	1248.3	1245.8	1228.8
32.5°	1221.0	1218.4	1221.0	1221.0	1218.4	1218.4	1208.0	1204.0	1205.4	1213.2	1197.5
35°	1180.6	1176.7	1180.6	1179.3	1180.6	1176.7	1170.2	1168.9	1163.6	1172.8	1161.1
37.5°	1133.7	1129.7	1133.7	1133.7	1133.7	1136.3	1131.1	1127.2	1119.3	1131.1	1122.0
40°	1085.5	1080.2	1085.5	1084.2	1085.5	1088.1	1085.5	1082.9	1075.1	1084.2	1076.4
42.5°	1030.7	1029.4	1030.7	1032.0	1032.0	1037.3	1041.2	1036.0	1033.3	1026.8	1032.0
45°	972.1	969.5	972.1	974.7	976.0	978.6	990.4	990.4	986.4	976.0	983.8
47.5°	909.5	903.1	909.5	917.4	917.4	921.3	933.0	942.1	935.6	922.6	926.5
50°	843.1	844.4	843.1	848.3	848.3	862.6	871.8	880.9	887.4	871.8	853.5
52.5°	777.9	776.6	777.9	781.9	787.1	793.6	809.2	818.4	828.8	819.7	790.9
55°	712.8	715.4	712.8	714.1	716.7	720.6	744.1	753.2	772.7	761.0	731.0
57.5°	647.6	643.7	647.6	650.3	651.6	655.4	675.0	691.9	703.7	704.9	668.5
60°	572.0	566.9	572.0	583.8	586.4	589.0	607.2	622.9	633.3	637.2	599.4
62.5°	505.6	496.5	505.6	513.4	518.6	525.1	538.2	561.6	570.7	572.0	518.6
65°	435.2	431.4	435.2	450.8	452.1	460.0	474.3	491.3	510.8	508.2	431.4
67.5°	371.4	371.4	371.4	381.8	389.6	393.5	411.8	419.6	444.4	447.0	359.7
70°	312.8	311.5	312.8	320.6	325.8	334.9	351.8	361.0	380.5	387.0	291.9
72.5°	256.7	255.4	256.7	263.2	268.4	276.3	290.6	301.0	317.9	325.8	226.8
75°	207.2	204.6	207.2	212.4	211.1	221.5	233.2	243.7	259.3	264.5	168.1
77.5°	159.0	159.0	159.0	164.2	164.2	174.6	179.8	192.9	202.0	209.8	123.8
80°	118.6	117.3	118.6	119.9	119.9	125.1	134.2	143.4	151.2	151.2	84.7
82.5°	83.4	80.8	83.4	83.4	83.4	86.0	91.2	93.8	99.0	102.9	53.4
85°	52.1	52.1	52.1	53.4	52.1	54.7	56.1	58.7	58.7	56.1	32.6
87.5°	33.9	32.6	33.9	32.6	32.6	31.3	31.3	31.3	30.0	28.6	18.2
90°	2.9	2.9	2.9	2.9	2.9	3.9	5.2	5.9	5.0	3.4	2.2
92.5°	11.7	9.4	11.7	14.0	14.6	20.8	29.0	33.0	29.0	20.9	14.9
95°	41.0	33.9	41.0	48.0	49.7	65.3	86.1	96.5	81.5	51.5	29.0
97.5°	98.0	84.6	98.0	111.4	114.8	124.7	137.8	144.4	119.4	69.4	31.9
100°	141.3	125.3	141.3	157.2	161.2	160.5	159.5	159.1	131.4	75.8	34.3
102.5°	183.7	170.0	183.7	197.4	200.9	188.3	171.6	163.2	135.1	78.8	36.7
105°	238.0	230.6	238.0	245.3	247.2	219.1	181.6	162.8	135.5	81.1	40.2
107.5°	273.5	275.3	273.5	271.7	271.3	232.0	179.7	153.5	129.5	81.5	45.4
110°	287.0	294.7	287.0	279.4	277.4	233.5	175.1	145.8	124.2	80.9	48.4





TEST NUMBER: P934122

CATALOG NUMBER: SQ4-FA-025U-125D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	288.2	300.0	288.2	276.4	273.5	228.6	168.8	138.8	119.5	80.9	51.9
115°	280.6	296.9	280.6	264.2	260.1	216.9	159.2	130.4	114.2	81.6	57.2
117.5°	264.3	282.5	264.3	246.2	241.7	202.7	150.7	124.7	110.8	83.2	62.4
120°	251.3	268.9	251.3	233.7	229.3	193.7	146.1	122.3	109.6	84.3	65.4
122.5°	238.5	255.9	238.5	221.1	216.8	184.7	141.9	120.5	109.0	86.1	68.9
125°	220.5	236.5	220.5	204.4	200.4	173.2	136.8	118.6	108.6	88.6	73.5
127.5°	204.1	217.6	204.1	190.7	187.3	163.9	132.6	117.0	108.3	90.9	77.9
130°	194.5	207.0	194.5	182.0	178.9	158.1	130.3	116.3	108.5	92.7	80.9
132.5°	185.8	197.0	185.8	174.6	171.9	153.2	128.3	115.8	108.6	94.1	83.2
135°	173.9	183.5	173.9	164.2	161.8	146.1	125.3	114.9	108.5	95.6	86.0
137.5°	164.2	172.2	164.2	156.4	154.4	141.1	123.5	114.7	109.1	97.9	89.6
140°	157.6	165.0	157.6	150.3	148.5	137.1	121.8	114.2	109.3	99.3	91.9
142.5°	152.2	158.5	152.2	145.9	144.3	134.3	120.9	114.2	109.6	100.6	93.7
145°	144.1	148.8	144.1	139.3	138.1	129.8	118.9	113.4	109.6	102.1	96.4
147.5°	137.8	141.8	137.8	133.8	132.8	126.4	117.7	113.4	110.4	104.3	99.8
150°	133.8	137.1	133.8	130.6	129.8	124.4	117.0	113.4	110.8	105.5	101.6
152.5°	130.4	132.9	130.4	128.1	127.4	122.7	116.5	113.4	111.0	106.3	102.7
155°	126.6	128.2	126.6	125.0	124.6	120.9	115.9	113.4	111.6	108.0	105.3
157.5°	123.5	124.7	123.5	122.4	122.0	119.2	115.3	113.4	112.2	109.6	107.8
160°	121.7	122.3	121.7	121.0	120.8	118.3	115.0	113.4	112.4	110.4	109.0
162.5°	120.4	121.0	120.4	119.8	119.7	117.6	114.8	113.4	112.7	111.3	110.2
165°	118.7	119.4	118.7	118.0	117.9	116.4	114.4	113.4	113.1	112.4	112.0
167.5°	117.4	117.7	117.4	117.2	117.1	116.1	114.8	114.2	113.9	113.3	113.0
170°	117.1	117.1	117.1	117.1	117.1	116.1	114.8	114.2	114.2	114.1	114.1
172.5°	116.2	116.0	116.2	116.4	116.5	115.7	114.7	114.2	114.2	114.2	114.2
175°	115.7	115.7	115.7	115.7	115.7	115.2	114.5	114.2	114.3	114.7	114.9
177.5°	115.2	114.9	115.2	115.4	115.5	115.1	114.6	114.3	114.5	114.7	114.9
180°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9



TEST NUMBER: P934122

CATALOG NUMBER: SQ4-FA-025U-125D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1396.9	1389.1	1389.1	1376.1	1370.8	1366.9	1360.4	1340.9	1335.6	1330.5	1338.3
5°	1408.6	1394.3	1383.8	1360.4	1340.9	1333.0	1308.3	1261.4	1230.2	1206.7	1193.7
7.5°	1411.3	1393.0	1373.4	1337.0	1290.1	1269.2	1193.7	1107.6	1084.2	1063.3	1050.3
10°	1408.6	1387.8	1360.4	1305.7	1195.0	1158.5	1082.9	1026.8	1012.5	1008.6	1012.5
12.5°	1399.6	1380.0	1342.2	1250.9	1095.9	1071.1	1026.8	994.2	991.7	998.2	1033.3
15°	1383.8	1365.7	1321.3	1178.0	1041.2	1022.9	991.7	979.9	994.2	1039.9	1145.5
17.5°	1368.2	1347.4	1292.7	1106.3	999.5	986.4	964.3	987.8	1068.5	1129.7	1164.9
20°	1347.4	1322.6	1260.1	1054.2	969.5	957.8	947.3	1052.9	1114.1	1136.3	1155.8
22.5°	1322.6	1296.6	1215.8	1017.7	938.2	929.1	935.6	1089.4	1114.1	1129.7	1146.7
25°	1290.1	1267.9	1163.6	989.1	913.5	903.1	927.8	1085.5	1099.8	1103.7	1137.6
27.5°	1260.1	1231.4	1109.0	963.0	883.5	879.6	934.3	1068.5	1078.9	1082.9	1119.3
30°	1223.6	1180.6	1047.7	935.6	852.2	850.9	935.6	1047.7	1045.0	1055.5	1092.0
32.5°	1185.8	1105.0	978.6	901.7	822.3	821.0	926.5	1016.4	1013.8	1028.1	1055.5
35°	1150.6	1046.4	884.8	862.6	784.5	785.8	904.4	979.9	981.2	994.2	1011.2
37.5°	1114.1	995.5	781.9	819.7	748.0	748.0	874.3	946.0	943.4	947.3	970.8
40°	1071.1	916.1	690.6	763.6	714.1	710.2	837.9	909.5	900.4	899.1	931.7
42.5°	1025.6	828.8	622.9	689.3	675.0	669.8	793.6	865.2	848.3	852.2	893.9
45°	976.0	805.3	570.7	582.5	634.6	630.7	745.4	814.4	802.7	813.1	856.2
47.5°	926.5	758.4	553.8	483.5	591.6	590.3	691.9	764.9	758.4	768.8	814.4
50°	858.7	706.2	552.5	414.4	543.4	548.6	628.1	716.7	716.7	725.8	774.0
52.5°	771.5	642.4	501.7	375.3	487.3	503.0	572.0	675.0	677.6	686.8	729.7
55°	691.9	576.0	465.2	345.3	420.9	454.8	517.4	632.0	637.2	646.3	685.5
57.5°	619.0	479.6	457.4	310.2	359.7	392.2	469.1	590.3	592.9	600.8	638.5
60°	540.8	346.7	419.6	272.3	306.2	330.9	424.8	540.8	549.9	555.1	587.7
62.5°	452.1	251.5	380.5	246.2	280.1	285.4	388.3	493.9	505.6	509.5	529.1
65°	321.9	211.1	323.2	224.1	252.8	254.1	349.2	445.7	456.1	462.6	476.9
67.5°	217.6	172.0	246.2	203.3	231.9	233.2	311.5	389.6	403.9	409.2	418.3
70°	151.2	114.7	182.4	181.1	208.5	211.1	271.0	338.8	351.8	355.7	361.0
72.5°	110.7	92.6	151.2	162.9	183.7	186.3	229.3	281.4	294.5	298.4	301.0
75°	84.7	97.7	122.5	142.1	156.4	157.7	187.6	229.3	238.5	241.1	242.4
77.5°	67.8	91.2	89.9	114.7	127.7	125.1	147.2	177.3	185.0	185.0	185.0
80°	50.8	71.7	67.8	82.1	93.8	91.2	105.6	126.4	129.0	131.6	130.3
82.5°	37.8	45.6	45.6	52.1	62.5	59.9	70.4	82.1	82.1	82.1	84.7
85°	23.5	26.0	20.9	27.3	35.2	33.9	39.1	44.3	45.6	45.6	43.0
87.5°	14.3	11.7	6.5	10.4	15.6	15.6	18.2	19.6	18.2	18.2	18.2
90°	2.0	1.4	0.8	1.4	2.0	2.2	3.4	5.0	5.9	5.2	3.9
92.5°	13.6	8.3	3.1	8.3	13.6	14.9	20.9	29.0	33.0	29.0	20.8
95°	26.6	17.0	7.4	17.0	26.6	29.0	51.5	81.5	96.5	86.1	65.3
97.5°	29.7	21.3	12.8	21.3	29.7	31.9	69.4	119.4	144.4	137.8	124.7
100°	32.3	24.6	16.9	24.6	32.3	34.3	75.8	131.4	159.1	159.5	160.5
102.5°	34.9	27.6	20.5	27.6	34.9	36.7	78.8	135.1	163.2	171.6	188.3
105°	38.7	32.6	26.6	32.6	38.7	40.2	81.1	135.5	162.8	181.6	219.1
107.5°	44.0	38.3	32.7	38.3	44.0	45.4	81.5	129.5	153.5	179.7	232.0
110°	47.0	42.0	36.9	42.0	47.0	48.4	80.9	124.2	145.8	175.1	233.5



TEST NUMBER: P934122

CATALOG NUMBER: SQ4-FA-025U-125D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	50.7	45.8	41.0	45.8	50.7	51.9	80.9	119.5	138.8	168.8	228.6
115°	56.1	51.6	47.1	51.6	56.1	57.2	81.6	114.2	130.4	159.2	216.9
117.5°	61.4	57.3	53.2	57.3	61.4	62.4	83.2	110.8	124.7	150.7	202.7
120°	64.4	60.6	56.7	60.6	64.4	65.4	84.3	109.6	122.3	146.1	193.7
122.5°	67.9	64.1	60.2	64.1	67.9	68.9	86.1	109.0	120.5	141.9	184.7
125°	72.6	69.1	65.5	69.1	72.6	73.5	88.6	108.6	118.6	136.8	173.2
127.5°	77.0	73.5	69.8	73.5	77.0	77.9	90.9	108.3	117.0	132.6	163.9
130°	79.8	76.0	72.1	76.0	79.8	80.9	92.7	108.5	116.3	130.3	158.1
132.5°	82.3	78.5	74.6	78.5	82.3	83.2	94.1	108.6	115.8	128.3	153.2
135°	85.2	81.6	78.2	81.6	85.2	86.0	95.6	108.5	114.9	125.3	146.1
137.5°	88.7	85.2	81.8	85.2	88.7	89.6	97.9	109.1	114.7	123.5	141.1
140°	91.2	87.9	84.8	87.9	91.2	91.9	99.3	109.3	114.2	121.8	137.1
142.5°	92.9	90.0	87.1	90.0	92.9	93.7	100.6	109.6	114.2	120.9	134.3
145°	95.8	93.2	90.6	93.2	95.8	96.4	102.1	109.6	113.4	118.9	129.8
147.5°	99.2	96.6	94.2	96.6	99.2	99.8	104.3	110.4	113.4	117.7	126.4
150°	101.0	98.7	96.5	98.7	101.0	101.6	105.5	110.8	113.4	117.0	124.4
152.5°	102.3	100.6	98.9	100.6	102.3	102.7	106.3	111.0	113.4	116.5	122.7
155°	105.0	103.6	102.4	103.6	105.0	105.3	108.0	111.6	113.4	115.9	120.9
157.5°	107.5	106.3	105.0	106.3	107.5	107.8	109.6	112.2	113.4	115.3	119.2
160°	108.7	107.7	106.8	107.7	108.7	109.0	110.4	112.4	113.4	115.0	118.3
162.5°	110.0	109.3	108.6	109.3	110.0	110.2	111.3	112.7	113.4	114.8	117.6
165°	111.8	111.1	110.5	111.1	111.8	112.0	112.4	113.1	113.4	114.4	116.4
167.5°	112.9	112.6	112.3	112.6	112.9	113.0	113.3	113.9	114.2	114.8	116.1
170°	114.0	113.7	113.4	113.7	114.0	114.1	114.1	114.2	114.2	114.8	116.1
172.5°	114.2	114.1	114.0	114.1	114.2	114.2	114.2	114.2	114.2	114.7	115.7
175°	114.9	114.9	114.9	114.9	114.9	114.9	114.7	114.3	114.2	114.5	115.2
177.5°	114.9	114.9	114.9	114.9	114.9	114.9	114.7	114.5	114.3	114.6	115.1
180°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9



TEST NUMBER: P934122  
 CATALOG NUMBER: SQ4-FA-025U-125D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1329.2	1325.2	1330.5	1316.1	1330.5	1325.2	1329.2	1338.3	1330.5	1335.6	1340.9
5°	1166.2	1159.8	1138.9	1122.0	1138.9	1159.8	1166.2	1193.7	1206.7	1230.2	1261.4
7.5°	1042.5	1037.3	1032.0	1021.6	1032.0	1037.3	1042.5	1050.3	1063.3	1084.2	1107.6
10°	1015.1	1016.4	1024.3	1022.9	1024.3	1016.4	1015.1	1012.5	1008.6	1012.5	1026.8
12.5°	1085.5	1097.2	1140.2	1137.6	1140.2	1097.2	1085.5	1033.3	998.2	991.7	994.2
15°	1166.2	1170.2	1179.3	1180.6	1179.3	1170.2	1166.2	1145.5	1039.9	994.2	979.9
17.5°	1174.1	1175.4	1181.9	1181.9	1181.9	1175.4	1174.1	1164.9	1129.7	1068.5	987.8
20°	1167.6	1170.2	1183.2	1185.8	1183.2	1170.2	1167.6	1155.8	1136.3	1114.1	1052.9
22.5°	1164.9	1170.2	1180.6	1179.3	1180.6	1170.2	1164.9	1146.7	1129.7	1114.1	1089.4
25°	1151.9	1151.9	1153.2	1154.5	1153.2	1151.9	1151.9	1137.6	1103.7	1099.8	1085.5
27.5°	1124.6	1127.2	1135.0	1133.7	1135.0	1127.2	1124.6	1119.3	1082.9	1078.9	1068.5
30°	1099.8	1097.2	1090.7	1085.5	1090.7	1097.2	1099.8	1092.0	1055.5	1045.0	1047.7
32.5°	1058.1	1051.6	1045.0	1041.2	1045.0	1051.6	1058.1	1055.5	1028.1	1013.8	1016.4
35°	1008.6	1009.9	1008.6	1004.7	1008.6	1009.9	1008.6	1011.2	994.2	981.2	979.9
37.5°	973.4	976.0	974.7	969.5	974.7	976.0	973.4	970.8	947.3	943.4	946.0
40°	936.9	938.2	936.9	933.0	936.9	938.2	936.9	931.7	899.1	900.4	909.5
42.5°	901.7	900.4	896.5	893.9	896.5	900.4	901.7	893.9	852.2	848.3	865.2
45°	861.3	862.6	854.9	850.9	854.9	862.6	861.3	856.2	813.1	802.7	814.4
47.5°	821.0	821.0	814.4	810.5	814.4	821.0	821.0	814.4	768.8	758.4	764.9
50°	777.9	776.6	767.5	766.2	767.5	776.6	777.9	774.0	725.8	716.7	716.7
52.5°	728.4	728.4	729.7	732.3	729.7	728.4	728.4	729.7	686.8	677.6	675.0
55°	685.5	686.8	695.8	698.5	695.8	686.8	685.5	685.5	646.3	637.2	632.0
57.5°	641.1	641.1	647.6	647.6	647.6	641.1	641.1	638.5	600.8	592.9	590.3
60°	590.3	592.9	598.1	596.8	598.1	592.9	590.3	587.7	555.1	549.9	540.8
62.5°	536.8	539.5	540.8	538.2	540.8	539.5	536.8	529.1	509.5	505.6	493.9
65°	480.9	483.5	484.7	482.2	484.7	483.5	480.9	476.9	462.6	456.1	445.7
67.5°	423.5	422.2	420.9	426.1	420.9	422.2	423.5	418.3	409.2	403.9	389.6
70°	364.8	364.8	363.6	366.1	363.6	364.8	364.8	361.0	355.7	351.8	338.8
72.5°	302.3	301.0	306.2	302.3	306.2	301.0	302.3	301.0	298.4	294.5	281.4
75°	241.1	243.7	241.1	245.0	241.1	243.7	241.1	242.4	241.1	238.5	229.3
77.5°	183.7	186.3	183.7	183.7	183.7	186.3	183.7	185.0	185.0	185.0	177.3
80°	130.3	129.0	129.0	127.7	129.0	129.0	130.3	130.3	131.6	129.0	126.4
82.5°	83.4	82.1	82.1	84.7	82.1	82.1	83.4	84.7	82.1	82.1	82.1
85°	45.6	46.9	44.3	44.3	44.3	46.9	45.6	43.0	45.6	45.6	44.3
87.5°	16.9	15.6	15.6	15.6	15.6	15.6	16.9	18.2	18.2	18.2	19.6
90°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	5.2	5.9	5.0
92.5°	14.6	14.0	11.7	9.4	11.7	14.0	14.6	20.8	29.0	33.0	29.0
95°	49.7	48.0	41.0	33.9	41.0	48.0	49.7	65.3	86.1	96.5	81.5
97.5°	114.8	111.4	98.0	84.6	98.0	111.4	114.8	124.7	137.8	144.4	119.4
100°	161.2	157.2	141.3	125.3	141.3	157.2	161.2	160.5	159.5	159.1	131.4
102.5°	200.9	197.4	183.7	170.0	183.7	197.4	200.9	188.3	171.6	163.2	135.1
105°	247.2	245.3	238.0	230.6	238.0	245.3	247.2	219.1	181.6	162.8	135.5
107.5°	271.3	271.7	273.5	275.3	273.5	271.7	271.3	232.0	179.7	153.5	129.5
110°	277.4	279.4	287.0	294.7	287.0	279.4	277.4	233.5	175.1	145.8	124.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	273.5	276.4	288.2	300.0	288.2	276.4	273.5	228.6	168.8	138.8	119.5
115°	260.1	264.2	280.6	296.9	280.6	264.2	260.1	216.9	159.2	130.4	114.2
117.5°	241.7	246.2	264.3	282.5	264.3	246.2	241.7	202.7	150.7	124.7	110.8
120°	229.3	233.7	251.3	268.9	251.3	233.7	229.3	193.7	146.1	122.3	109.6
122.5°	216.8	221.1	238.5	255.9	238.5	221.1	216.8	184.7	141.9	120.5	109.0
125°	200.4	204.4	220.5	236.5	220.5	204.4	200.4	173.2	136.8	118.6	108.6
127.5°	187.3	190.7	204.1	217.6	204.1	190.7	187.3	163.9	132.6	117.0	108.3
130°	178.9	182.0	194.5	207.0	194.5	182.0	178.9	158.1	130.3	116.3	108.5
132.5°	171.9	174.6	185.8	197.0	185.8	174.6	171.9	153.2	128.3	115.8	108.6
135°	161.8	164.2	173.9	183.5	173.9	164.2	161.8	146.1	125.3	114.9	108.5
137.5°	154.4	156.4	164.2	172.2	164.2	156.4	154.4	141.1	123.5	114.7	109.1
140°	148.5	150.3	157.6	165.0	157.6	150.3	148.5	137.1	121.8	114.2	109.3
142.5°	144.3	145.9	152.2	158.5	152.2	145.9	144.3	134.3	120.9	114.2	109.6
145°	138.1	139.3	144.1	148.8	144.1	139.3	138.1	129.8	118.9	113.4	109.6
147.5°	132.8	133.8	137.8	141.8	137.8	133.8	132.8	126.4	117.7	113.4	110.4
150°	129.8	130.6	133.8	137.1	133.8	130.6	129.8	124.4	117.0	113.4	110.8
152.5°	127.4	128.1	130.4	132.9	130.4	128.1	127.4	122.7	116.5	113.4	111.0
155°	124.6	125.0	126.6	128.2	126.6	125.0	124.6	120.9	115.9	113.4	111.6
157.5°	122.0	122.4	123.5	124.7	123.5	122.4	122.0	119.2	115.3	113.4	112.2
160°	120.8	121.0	121.7	122.3	121.7	121.0	120.8	118.3	115.0	113.4	112.4
162.5°	119.7	119.8	120.4	121.0	120.4	119.8	119.7	117.6	114.8	113.4	112.7
165°	117.9	118.0	118.7	119.4	118.7	118.0	117.9	116.4	114.4	113.4	113.1
167.5°	117.1	117.2	117.4	117.7	117.4	117.2	117.1	116.1	114.8	114.2	113.9
170°	117.1	117.1	117.1	117.1	117.1	117.1	117.1	116.1	114.8	114.2	114.2
172.5°	116.5	116.4	116.2	116.0	116.2	116.4	116.5	115.7	114.7	114.2	114.2
175°	115.7	115.7	115.7	115.7	115.7	115.7	115.7	115.2	114.5	114.2	114.3
177.5°	115.5	115.4	115.2	114.9	115.2	115.4	115.5	115.1	114.6	114.3	114.5
180°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1360.4	1366.9	1370.8	1376.1	1389.1
5°	1308.3	1333.0	1340.9	1360.4	1383.8
7.5°	1193.7	1269.2	1290.1	1337.0	1373.4
10°	1082.9	1158.5	1195.0	1305.7	1360.4
12.5°	1026.8	1071.1	1095.9	1250.9	1342.2
15°	991.7	1022.9	1041.2	1178.0	1321.3
17.5°	964.3	986.4	999.5	1106.3	1292.7
20°	947.3	957.8	969.5	1054.2	1260.1
22.5°	935.6	929.1	938.2	1017.7	1215.8
25°	927.8	903.1	913.5	989.1	1163.6
27.5°	934.3	879.6	883.5	963.0	1109.0
30°	935.6	850.9	852.2	935.6	1047.7
32.5°	926.5	821.0	822.3	901.7	978.6
35°	904.4	785.8	784.5	862.6	884.8
37.5°	874.3	748.0	748.0	819.7	781.9
40°	837.9	710.2	714.1	763.6	690.6
42.5°	793.6	669.8	675.0	689.3	622.9
45°	745.4	630.7	634.6	582.5	570.7
47.5°	691.9	590.3	591.6	483.5	553.8
50°	628.1	548.6	543.4	414.4	552.5
52.5°	572.0	503.0	487.3	375.3	501.7
55°	517.4	454.8	420.9	345.3	465.2
57.5°	469.1	392.2	359.7	310.2	457.4
60°	424.8	330.9	306.2	272.3	419.6
62.5°	388.3	285.4	280.1	246.2	380.5
65°	349.2	254.1	252.8	224.1	323.2
67.5°	311.5	233.2	231.9	203.3	246.2
70°	271.0	211.1	208.5	181.1	182.4
72.5°	229.3	186.3	183.7	162.9	151.2
75°	187.6	157.7	156.4	142.1	122.5
77.5°	147.2	125.1	127.7	114.7	89.9
80°	105.6	91.2	93.8	82.1	67.8
82.5°	70.4	59.9	62.5	52.1	45.6
85°	39.1	33.9	35.2	27.3	20.9
87.5°	18.2	15.6	15.6	10.4	6.5
90°	3.4	2.2	2.0	1.4	0.8
92.5°	20.9	14.9	13.6	8.3	3.1
95°	51.5	29.0	26.6	17.0	7.4
97.5°	69.4	31.9	29.7	21.3	12.8
100°	75.8	34.3	32.3	24.6	16.9
102.5°	78.8	36.7	34.9	27.6	20.5
105°	81.1	40.2	38.7	32.6	26.6
107.5°	81.5	45.4	44.0	38.3	32.7
110°	80.9	48.4	47.0	42.0	36.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	80.9	51.9	50.7	45.8	41.0
115°	81.6	57.2	56.1	51.6	47.1
117.5°	83.2	62.4	61.4	57.3	53.2
120°	84.3	65.4	64.4	60.6	56.7
122.5°	86.1	68.9	67.9	64.1	60.2
125°	88.6	73.5	72.6	69.1	65.5
127.5°	90.9	77.9	77.0	73.5	69.8
130°	92.7	80.9	79.8	76.0	72.1
132.5°	94.1	83.2	82.3	78.5	74.6
135°	95.6	86.0	85.2	81.6	78.2
137.5°	97.9	89.6	88.7	85.2	81.8
140°	99.3	91.9	91.2	87.9	84.8
142.5°	100.6	93.7	92.9	90.0	87.1
145°	102.1	96.4	95.8	93.2	90.6
147.5°	104.3	99.8	99.2	96.6	94.2
150°	105.5	101.6	101.0	98.7	96.5
152.5°	106.3	102.7	102.3	100.6	98.9
155°	108.0	105.3	105.0	103.6	102.4
157.5°	109.6	107.8	107.5	106.3	105.0
160°	110.4	109.0	108.7	107.7	106.8
162.5°	111.3	110.2	110.0	109.3	108.6
165°	112.4	112.0	111.8	111.1	110.5
167.5°	113.3	113.0	112.9	112.6	112.3
170°	114.1	114.1	114.0	113.7	113.4
172.5°	114.2	114.2	114.2	114.1	114.0
175°	114.7	114.9	114.9	114.9	114.9
177.5°	114.7	114.9	114.9	114.9	114.9
180°	114.9	114.9	114.9	114.9	114.9



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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	16.26	17.52	16.87	18.14	18.85	19.05	20.31	19.67	20.94	21.65
	3H	16.76	17.90	17.39	18.53	19.28	20.42	21.55	21.05	22.19	22.93
	4H	16.97	18.04	17.62	18.69	19.45	20.88	21.94	21.52	22.59	23.35
	6H	17.11	18.10	17.77	18.76	19.53	21.17	22.16	21.83	22.82	23.59
	8H	17.12	18.06	17.80	18.74	19.52	21.25	22.19	21.93	22.87	23.65
	12H	17.11	18.01	17.79	18.68	19.49	21.30	22.20	21.98	22.87	23.68
4H	2H	17.33	18.40	17.98	19.04	19.81	19.51	20.58	20.16	21.23	21.99
	3H	18.39	19.28	19.06	19.97	20.75	21.04	21.93	21.71	22.62	23.40
	4H	18.68	19.49	19.37	20.18	20.99	21.58	22.39	22.26	23.08	23.89
	6H	18.83	19.53	19.53	20.25	21.07	21.96	22.66	22.66	23.38	24.20
	8H	18.85	19.50	19.55	20.22	21.05	22.07	22.73	22.78	23.44	24.27
	12H	18.83	19.42	19.56	20.16	21.00	22.14	22.73	22.87	23.47	24.31
8H	4H	19.16	19.82	19.87	20.53	21.37	21.74	22.39	22.45	23.11	23.94
	6H	19.44	19.98	20.18	20.74	21.58	22.18	22.73	22.92	23.48	24.32
	8H	19.49	19.97	20.24	20.73	21.58	22.33	22.82	23.08	23.58	24.43
	12H	19.49	19.92	20.24	20.67	21.58	22.45	22.87	23.20	23.62	24.53
12H	4H	19.19	19.78	19.91	20.52	21.35	21.72	22.31	22.45	23.05	23.89
	6H	19.50	19.99	20.25	20.75	21.60	22.18	22.67	22.93	23.43	24.28
	8H	19.59	20.02	20.34	20.76	21.68	22.36	22.79	23.11	23.53	24.45