

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: P934022

Luminaire Tested: SQ4-FA-025U-100D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

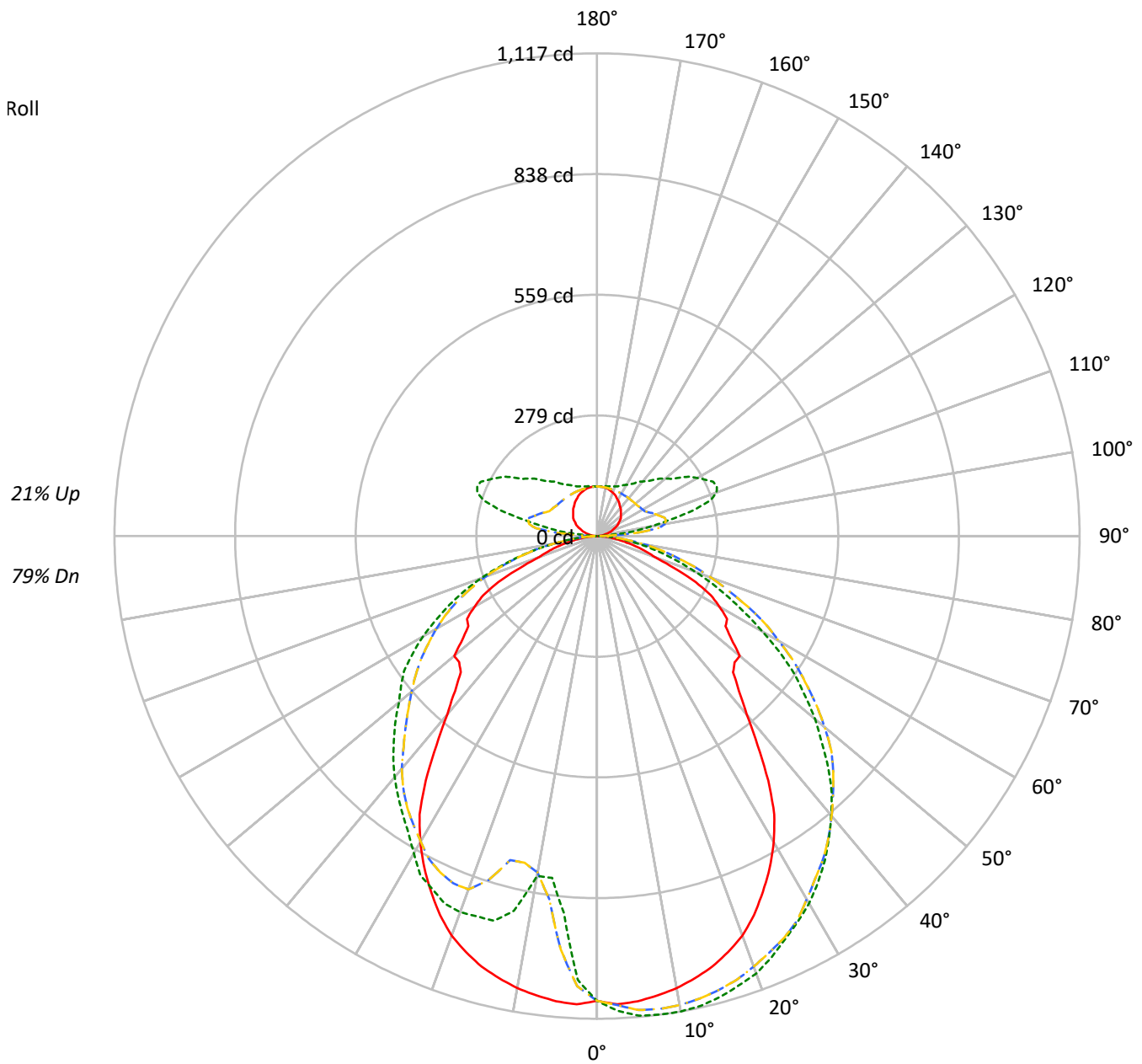
Test Method: LM-79-2019  
Report Number: P934022  
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-927-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3533.5 lumens  
Efficiency: N/A  
Efficacy: 91.1 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°	9978	9978	9978	9978
5°	10043	10073	10043	7921
10°	9964	9922	9964	7093
15°	9844	9707	9844	8105
20°	9627	9453	9627	8123
25°	9194	9081	9194	7951
30°	8640	8773	8640	7573
35°	7691	8383	7691	7157
40°	6397	7924	6397	6843
45°	5705	7386	5705	6483
50°	6047	6746	6047	6120
55°	5673	6055	5673	5911
60°	5827	5141	5827	5413
65°	5258	4250	5258	4752
70°	3618	3388	3618	3983
75°	3135	2504	3135	2999
80°	2476	1656	2476	1803
85°	1341	877	1341	745

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8761 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	2.7
10°-20°	275.6	7.8
20°-30°	426.0	12.1
30°-40°	508.6	14.4
40°-50°	511.6	14.5
50°-60°	445.1	12.6
60°-70°	315.6	8.9
70°-80°	167.0	4.7
80°-90°	42.0	1.2
90°-100°	56.0	1.6
100°-110°	147.3	4.2
110°-120°	152.7	4.3
120°-130°	122.5	3.5
130°-140°	96.1	2.7
140°-150°	73.8	2.1
150°-160°	53.1	1.5
160°-170°	32.5	0.9
170°-180°	11.0	0.3
0°-30°	798.7	22.6
0°-40°	1307.3	37.0
0°-60°	2264.0	64.1
0°-90°	2788.6	78.9
90°-120°	356.0	10.1
90°-150°	648.3	18.3
90°-180°	745.0	21.1
0°-180°	3533.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1075	1075	1075	1075	1075	
5°	1080	1114	1080	876	1080	102
15°	1032	1104	1032	922	1032	290
25°	908	1030	908	901	908	417
35°	691	919	691	784	691	427
45°	446	757	446	664	446	357
55°	363	559	363	545	363	334
65°	252	337	252	376	252	241
75°	96	160	96	191	96	101
85°	16	41	16	35	16	22
90°	1	3	1	3	1	1
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°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1084.5	1084.5	1090.6	1092.6	1092.6	1089.6	1086.5	1089.6	1098.7	1101.8	1100.8
5°	1080.5	1088.5	1099.8	1101.8	1103.8	1102.8	1100.8	1102.8	1113.0	1115.0	1116.0
7.5°	1072.3	1087.5	1101.8	1104.9	1107.9	1104.9	1103.8	1105.9	1116.0	1118.0	1118.0
10°	1062.1	1083.5	1099.8	1101.8	1104.9	1101.8	1101.8	1105.9	1116.0	1118.0	1119.1
12.5°	1047.9	1077.4	1092.6	1094.7	1098.7	1097.7	1096.7	1100.8	1111.0	1113.0	1113.0
15°	1031.6	1066.2	1080.5	1082.5	1089.6	1087.5	1087.5	1091.6	1102.8	1105.9	1104.9
17.5°	1009.2	1052.0	1068.2	1071.3	1076.4	1075.3	1076.4	1080.5	1090.6	1092.6	1093.6
20°	983.8	1032.6	1052.0	1055.0	1060.1	1060.1	1060.1	1065.1	1075.3	1079.4	1079.4
22.5°	949.2	1012.2	1032.6	1034.6	1040.7	1040.7	1042.8	1049.9	1059.1	1060.1	1060.1
25°	908.5	989.9	1007.2	1013.3	1019.4	1022.4	1025.5	1029.6	1032.6	1031.6	1032.6
27.5°	865.8	961.4	983.8	987.8	996.0	999.1	1003.1	1004.2	1005.2	1008.2	1006.2
30°	818.0	921.7	955.3	959.3	972.6	974.6	970.6	972.6	977.7	979.7	981.8
32.5°	764.0	862.7	925.8	934.9	947.2	941.0	940.0	943.1	951.3	951.3	953.3
35°	690.8	817.0	898.4	906.4	915.6	908.5	912.5	913.6	918.7	921.7	920.7
37.5°	610.4	777.2	869.9	876.0	883.0	873.9	880.0	883.0	887.1	885.1	885.1
40°	539.2	715.2	836.3	840.3	846.5	839.3	845.4	847.5	849.5	847.5	846.5
42.5°	486.3	647.0	800.6	805.7	801.6	806.7	808.8	812.9	809.8	805.7	805.7
45°	445.6	628.7	762.0	768.1	762.0	770.2	773.2	773.2	764.0	762.0	761.0
47.5°	432.4	592.1	723.3	723.3	720.3	730.4	735.6	728.4	719.3	716.3	716.3
50°	431.4	551.4	670.4	666.4	680.6	692.8	687.8	680.6	673.5	662.3	662.3
52.5°	391.7	501.6	602.3	617.5	639.9	647.0	638.9	631.8	619.5	614.5	610.4
55°	363.2	449.7	540.2	570.7	594.1	603.3	588.0	580.9	562.6	559.6	557.5
57.5°	357.1	374.4	483.3	521.9	550.4	549.4	540.2	527.0	511.7	508.7	507.7
60°	327.6	270.6	422.2	468.0	497.5	494.4	486.3	474.1	459.8	457.8	455.8
62.5°	297.1	196.4	353.0	404.9	446.6	445.6	438.5	420.2	410.0	404.9	400.9
65°	252.3	164.8	251.3	336.7	396.8	398.8	383.5	370.3	359.1	353.0	352.0
67.5°	192.3	134.3	169.9	280.8	349.0	346.9	327.6	321.5	307.2	304.2	298.1
70°	142.5	89.6	118.0	227.9	302.1	297.1	281.8	274.7	261.5	254.3	250.2
72.5°	118.0	72.2	86.5	177.0	254.3	248.2	235.0	226.8	215.7	209.6	205.5
75°	95.6	76.3	66.1	131.2	206.5	202.4	190.3	182.1	172.9	164.8	165.9
77.5°	70.2	71.2	52.9	96.6	163.8	157.7	150.5	140.4	136.3	128.2	128.2
80°	52.9	56.0	39.7	66.1	118.0	118.0	111.9	104.8	97.6	93.6	93.6
82.5°	35.6	35.6	29.5	41.7	80.4	77.3	73.2	71.2	67.1	65.1	65.1
85°	16.2	20.3	18.3	25.4	43.7	45.8	45.8	43.7	42.7	40.7	41.7
87.5°	5.1	9.2	11.2	14.2	22.4	23.4	24.4	24.4	24.4	25.4	25.4
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°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1102.8	1099.8	1102.8	1100.8	1101.8	1098.7	1089.6	1086.5	1089.6	1092.6	1092.6
5°	1116.0	1114.0	1116.0	1116.0	1115.0	1113.0	1102.8	1100.8	1102.8	1103.8	1101.8
7.5°	1120.1	1117.0	1120.1	1118.0	1118.0	1116.0	1105.9	1103.8	1104.9	1107.9	1104.9
10°	1120.1	1117.0	1120.1	1119.1	1118.0	1116.0	1105.9	1101.8	1101.8	1104.9	1101.8
12.5°	1115.0	1113.0	1115.0	1113.0	1113.0	1111.0	1100.8	1096.7	1097.7	1098.7	1094.7
15°	1106.9	1103.8	1106.9	1104.9	1105.9	1102.8	1091.6	1087.5	1087.5	1089.6	1082.5
17.5°	1094.7	1090.6	1094.7	1093.6	1092.6	1090.6	1080.5	1076.4	1075.3	1076.4	1071.3
20°	1080.5	1077.4	1080.5	1079.4	1079.4	1075.3	1065.1	1060.1	1060.1	1060.1	1055.0
22.5°	1058.1	1055.0	1058.1	1060.1	1060.1	1059.1	1049.9	1042.8	1040.7	1040.7	1034.6
25°	1032.6	1029.6	1032.6	1032.6	1031.6	1032.6	1029.6	1025.5	1022.4	1019.4	1013.3
27.5°	1008.2	1006.2	1008.2	1006.2	1008.2	1005.2	1004.2	1003.1	999.1	996.0	987.8
30°	983.8	981.8	983.8	981.8	979.7	977.7	972.6	970.6	974.6	972.6	959.3
32.5°	953.3	951.3	953.3	953.3	951.3	951.3	943.1	940.0	941.0	947.2	934.9
35°	921.7	918.7	921.7	920.7	921.7	918.7	913.6	912.5	908.5	915.6	906.4
37.5°	885.1	882.0	885.1	885.1	885.1	887.1	883.0	880.0	873.9	883.0	876.0
40°	847.5	843.4	847.5	846.5	847.5	849.5	847.5	845.4	839.3	846.5	840.3
42.5°	804.7	803.7	804.7	805.7	805.7	809.8	812.9	808.8	806.7	801.6	805.7
45°	758.9	756.9	758.9	761.0	762.0	764.0	773.2	773.2	770.2	762.0	768.1
47.5°	710.1	705.0	710.1	716.3	716.3	719.3	728.4	735.6	730.4	720.3	723.3
50°	658.2	659.3	658.2	662.3	662.3	673.5	680.6	687.8	692.8	680.6	666.4
52.5°	607.4	606.4	607.4	610.4	614.5	619.5	631.8	638.9	647.0	639.9	617.5
55°	556.5	558.6	556.5	557.5	559.6	562.6	580.9	588.0	603.3	594.1	570.7
57.5°	505.7	502.6	505.7	507.7	508.7	511.7	527.0	540.2	549.4	550.4	521.9
60°	446.6	442.5	446.6	455.8	457.8	459.8	474.1	486.3	494.4	497.5	468.0
62.5°	394.7	387.6	394.7	400.9	404.9	410.0	420.2	438.5	445.6	446.6	404.9
65°	339.8	336.7	339.8	352.0	353.0	359.1	370.3	383.5	398.8	396.8	336.7
67.5°	290.0	290.0	290.0	298.1	304.2	307.2	321.5	327.6	346.9	349.0	280.8
70°	244.2	243.2	244.2	250.2	254.3	261.5	274.7	281.8	297.1	302.1	227.9
72.5°	200.4	199.4	200.4	205.5	209.6	215.7	226.8	235.0	248.2	254.3	177.0
75°	161.8	159.7	161.8	165.9	164.8	172.9	182.1	190.3	202.4	206.5	131.2
77.5°	124.1	124.1	124.1	128.2	128.2	136.3	140.4	150.5	157.7	163.8	96.6
80°	92.6	91.6	92.6	93.6	93.6	97.6	104.8	111.9	118.0	118.0	66.1
82.5°	65.1	63.1	65.1	65.1	65.1	67.1	71.2	73.2	77.3	80.4	41.7
85°	40.7	40.7	40.7	41.7	40.7	42.7	43.7	45.8	45.8	43.7	25.4
87.5°	26.5	25.4	26.5	25.4	25.4	24.4	24.4	24.4	23.4	22.4	14.2
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: P934022

CATALOG NUMBER: SQ4-FA-025U-100D-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: P934022

CATALOG NUMBER: SQ4-FA-025U-100D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1090.6	1084.5	1084.5	1074.3	1070.2	1067.2	1062.1	1046.9	1042.8	1038.7	1044.8
5°	1099.8	1088.5	1080.5	1062.1	1046.9	1040.7	1021.4	984.8	960.3	942.1	931.9
7.5°	1101.8	1087.5	1072.3	1043.8	1007.2	990.9	931.9	864.8	846.5	830.1	820.0
10°	1099.8	1083.5	1062.1	1019.4	932.9	904.4	845.4	801.6	790.5	787.4	790.5
12.5°	1092.6	1077.4	1047.9	976.7	855.6	836.3	801.6	776.2	774.2	779.3	806.7
15°	1080.5	1066.2	1031.6	919.7	812.9	798.6	774.2	765.1	776.2	811.8	894.3
17.5°	1068.2	1052.0	1009.2	863.7	780.3	770.2	752.8	771.2	834.2	882.0	909.5
20°	1052.0	1032.6	983.8	823.1	756.9	747.7	739.6	822.1	869.9	887.1	902.4
22.5°	1032.6	1012.2	949.2	794.6	732.5	725.3	730.4	850.5	869.9	882.0	895.3
25°	1007.2	989.9	908.5	772.2	713.2	705.0	724.3	847.5	858.6	861.7	888.1
27.5°	983.8	961.4	865.8	751.8	689.8	686.7	729.4	834.2	842.4	845.4	873.9
30°	955.3	921.7	818.0	730.4	665.4	664.4	730.4	818.0	815.9	824.1	852.5
32.5°	925.8	862.7	764.0	704.0	641.9	640.9	723.3	793.6	791.5	802.7	824.1
35°	898.4	817.0	690.8	673.5	612.5	613.5	706.0	765.1	766.1	776.2	789.5
37.5°	869.9	777.2	610.4	639.9	584.0	584.0	682.6	738.6	736.6	739.6	757.9
40°	836.3	715.2	539.2	596.1	557.5	554.5	654.2	710.1	703.0	702.0	727.4
42.5°	800.6	647.0	486.3	538.2	527.0	522.9	619.5	675.5	662.3	665.4	697.9
45°	762.0	628.7	445.6	454.8	495.4	492.4	581.9	635.9	626.7	634.9	668.4
47.5°	723.3	592.1	432.4	377.5	461.8	460.8	540.2	597.2	592.1	600.2	635.9
50°	670.4	551.4	431.4	323.6	424.3	428.3	490.3	559.6	559.6	566.6	604.3
52.5°	602.3	501.6	391.7	293.0	380.5	392.7	446.6	527.0	529.0	536.2	569.7
55°	540.2	449.7	363.2	269.6	328.6	355.0	403.9	493.4	497.5	504.6	535.2
57.5°	483.3	374.4	357.1	242.2	280.8	306.2	366.2	460.8	462.9	469.0	498.5
60°	422.2	270.6	327.6	212.6	239.1	258.4	331.6	422.2	429.4	433.4	458.8
62.5°	353.0	196.4	297.1	192.3	218.8	222.8	303.1	385.5	394.7	397.8	413.0
65°	251.3	164.8	252.3	175.0	197.4	198.4	272.7	348.0	356.0	361.1	372.4
67.5°	169.9	134.3	192.3	158.7	181.1	182.1	243.2	304.2	315.4	319.5	326.6
70°	118.0	89.6	142.5	141.4	162.8	164.8	211.6	264.5	274.7	277.7	281.8
72.5°	86.5	72.2	118.0	127.2	143.5	145.5	179.0	219.8	229.9	233.0	235.0
75°	66.1	76.3	95.6	110.9	122.0	123.1	146.5	179.0	186.2	188.2	189.2
77.5°	52.9	71.2	70.2	89.6	99.7	97.6	115.0	138.4	144.5	144.5	144.5
80°	39.7	56.0	52.9	64.1	73.2	71.2	82.4	98.7	100.7	102.7	101.7
82.5°	29.5	35.6	35.6	40.7	48.8	46.8	54.9	64.1	64.1	64.1	66.1
85°	18.3	20.3	16.2	21.3	27.5	26.5	30.5	34.6	35.6	35.6	33.6
87.5°	11.2	9.2	5.1	8.2	12.2	12.2	14.2	15.2	14.2	14.2	14.2
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: P934022

CATALOG NUMBER: SQ4-FA-025U-100D-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: P934022  
 CATALOG NUMBER: SQ4-FA-025U-100D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1037.7	1034.6	1038.7	1027.5	1038.7	1034.6	1037.7	1044.8	1038.7	1042.8	1046.9
5°	910.5	905.4	889.2	876.0	889.2	905.4	910.5	931.9	942.1	960.3	984.8
7.5°	813.9	809.8	805.7	797.6	805.7	809.8	813.9	820.0	830.1	846.5	864.8
10°	792.5	793.6	799.6	798.6	799.6	793.6	792.5	790.5	787.4	790.5	801.6
12.5°	847.5	856.6	890.2	888.1	890.2	856.6	847.5	806.7	779.3	774.2	776.2
15°	910.5	913.6	920.7	921.7	920.7	913.6	910.5	894.3	811.8	776.2	765.1
17.5°	916.6	917.7	922.8	922.8	922.8	917.7	916.6	909.5	882.0	834.2	771.2
20°	911.5	913.6	923.8	925.8	923.8	913.6	911.5	902.4	887.1	869.9	822.1
22.5°	909.5	913.6	921.7	920.7	921.7	913.6	909.5	895.3	882.0	869.9	850.5
25°	899.4	899.4	900.4	901.4	900.4	899.4	899.4	888.1	861.7	858.6	847.5
27.5°	878.0	880.0	886.1	885.1	886.1	880.0	878.0	873.9	845.4	842.4	834.2
30°	858.6	856.6	851.5	847.5	851.5	856.6	858.6	852.5	824.1	815.9	818.0
32.5°	826.1	821.0	815.9	812.9	815.9	821.0	826.1	824.1	802.7	791.5	793.6
35°	787.4	788.5	787.4	784.4	787.4	788.5	787.4	789.5	776.2	766.1	765.1
37.5°	760.0	762.0	761.0	756.9	761.0	762.0	760.0	757.9	739.6	736.6	738.6
40°	731.5	732.5	731.5	728.4	731.5	732.5	731.5	727.4	702.0	703.0	710.1
42.5°	704.0	703.0	699.9	697.9	699.9	703.0	704.0	697.9	665.4	662.3	675.5
45°	672.4	673.5	667.4	664.4	667.4	673.5	672.4	668.4	634.9	626.7	635.9
47.5°	640.9	640.9	635.9	632.8	635.9	640.9	640.9	635.9	600.2	592.1	597.2
50°	607.4	606.4	599.2	598.2	599.2	606.4	607.4	604.3	566.6	559.6	559.6
52.5°	568.7	568.7	569.7	571.7	569.7	568.7	568.7	569.7	536.2	529.0	527.0
55°	535.2	536.2	543.2	545.3	543.2	536.2	535.2	535.2	504.6	497.5	493.4
57.5°	500.5	500.5	505.7	505.7	505.7	500.5	500.5	498.5	469.0	462.9	460.8
60°	460.8	462.9	466.9	465.9	466.9	462.9	460.8	458.8	433.4	429.4	422.2
62.5°	419.1	421.2	422.2	420.2	422.2	421.2	419.1	413.0	397.8	394.7	385.5
65°	375.4	377.5	378.5	376.5	378.5	377.5	375.4	372.4	361.1	356.0	348.0
67.5°	330.6	329.6	328.6	332.6	328.6	329.6	330.6	326.6	319.5	315.4	304.2
70°	284.8	284.8	283.8	285.9	283.8	284.8	284.8	281.8	277.7	274.7	264.5
72.5°	236.0	235.0	239.1	236.0	239.1	235.0	236.0	235.0	233.0	229.9	219.8
75°	188.2	190.3	188.2	191.3	188.2	190.3	188.2	189.2	188.2	186.2	179.0
77.5°	143.5	145.5	143.5	143.5	143.5	145.5	143.5	144.5	144.5	144.5	138.4
80°	101.7	100.7	100.7	99.7	100.7	100.7	101.7	101.7	102.7	100.7	98.7
82.5°	65.1	64.1	64.1	66.1	64.1	64.1	65.1	66.1	64.1	64.1	64.1
85°	35.6	36.7	34.6	34.6	34.6	36.7	35.6	33.6	35.6	35.6	34.6
87.5°	13.2	12.2	12.2	12.2	12.2	12.2	13.2	14.2	14.2	14.2	15.2
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°	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1062.1	1067.2	1070.2	1074.3	1084.5
5°	1021.4	1040.7	1046.9	1062.1	1080.5
7.5°	931.9	990.9	1007.2	1043.8	1072.3
10°	845.4	904.4	932.9	1019.4	1062.1
12.5°	801.6	836.3	855.6	976.7	1047.9
15°	774.2	798.6	812.9	919.7	1031.6
17.5°	752.8	770.2	780.3	863.7	1009.2
20°	739.6	747.7	756.9	823.1	983.8
22.5°	730.4	725.3	732.5	794.6	949.2
25°	724.3	705.0	713.2	772.2	908.5
27.5°	729.4	686.7	689.8	751.8	865.8
30°	730.4	664.4	665.4	730.4	818.0
32.5°	723.3	640.9	641.9	704.0	764.0
35°	706.0	613.5	612.5	673.5	690.8
37.5°	682.6	584.0	584.0	639.9	610.4
40°	654.2	554.5	557.5	596.1	539.2
42.5°	619.5	522.9	527.0	538.2	486.3
45°	581.9	492.4	495.4	454.8	445.6
47.5°	540.2	460.8	461.8	377.5	432.4
50°	490.3	428.3	424.3	323.6	431.4
52.5°	446.6	392.7	380.5	293.0	391.7
55°	403.9	355.0	328.6	269.6	363.2
57.5°	366.2	306.2	280.8	242.2	357.1
60°	331.6	258.4	239.1	212.6	327.6
62.5°	303.1	222.8	218.8	192.3	297.1
65°	272.7	198.4	197.4	175.0	252.3
67.5°	243.2	182.1	181.1	158.7	192.3
70°	211.6	164.8	162.8	141.4	142.5
72.5°	179.0	145.5	143.5	127.2	118.0
75°	146.5	123.1	122.0	110.9	95.6
77.5°	115.0	97.6	99.7	89.6	70.2
80°	82.4	71.2	73.2	64.1	52.9
82.5°	54.9	46.8	48.8	40.7	35.6
85°	30.5	26.5	27.5	21.3	16.2
87.5°	14.2	12.2	12.2	8.2	5.1
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	15.12	16.32	15.78	17.00	17.79	17.92	19.12	18.58	19.80	20.58
	3H	15.62	16.70	16.30	17.39	18.21	19.28	20.36	19.95	21.04	21.87
	4H	15.83	16.85	16.52	17.54	18.38	19.73	20.75	20.43	21.45	22.28
	6H	15.97	16.90	16.67	17.61	18.46	20.03	20.96	20.73	21.67	22.52
	8H	15.98	16.87	16.70	17.60	18.45	20.11	21.00	20.83	21.73	22.58
	12H	15.96	16.81	16.68	17.54	18.42	20.15	21.00	20.88	21.73	22.61
4H	2H	16.19	17.20	16.88	17.90	18.74	18.37	19.38	19.07	20.08	20.92
	3H	17.24	18.09	17.95	18.83	19.68	19.90	20.74	20.61	21.48	22.33
	4H	17.53	18.30	18.26	19.04	19.92	20.43	21.20	21.16	21.94	22.82
	6H	17.68	18.34	18.42	19.11	20.00	20.81	21.47	21.55	22.24	23.13
	8H	17.69	18.31	18.44	19.07	19.98	20.92	21.54	21.67	22.30	23.20
	12H	17.67	18.23	18.45	19.02	19.93	20.99	21.54	21.76	22.33	23.24
8H	4H	18.01	18.63	18.76	19.39	20.30	20.58	21.21	21.33	21.97	22.87
	6H	18.28	18.80	19.06	19.60	20.51	21.03	21.54	21.81	22.34	23.25
	8H	18.33	18.79	19.12	19.59	20.51	21.18	21.64	21.97	22.44	23.36
	12H	18.33	18.73	19.12	19.53	20.51	21.28	21.69	22.08	22.48	23.46
12H	4H	18.03	18.59	18.80	19.37	20.28	20.56	21.12	21.34	21.91	22.82
	6H	18.35	18.81	19.14	19.61	20.53	21.03	21.49	21.82	22.29	23.21
	8H	18.43	18.83	19.22	19.63	20.61	21.20	21.60	21.99	22.40	23.38