

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P857335

Luminaire Tested: **LX4C25D010 EX4C259027 4LBLWW\***

Issue Date: 2/9/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P857335  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C25D010 EX4C259027 4LBLWW\*  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

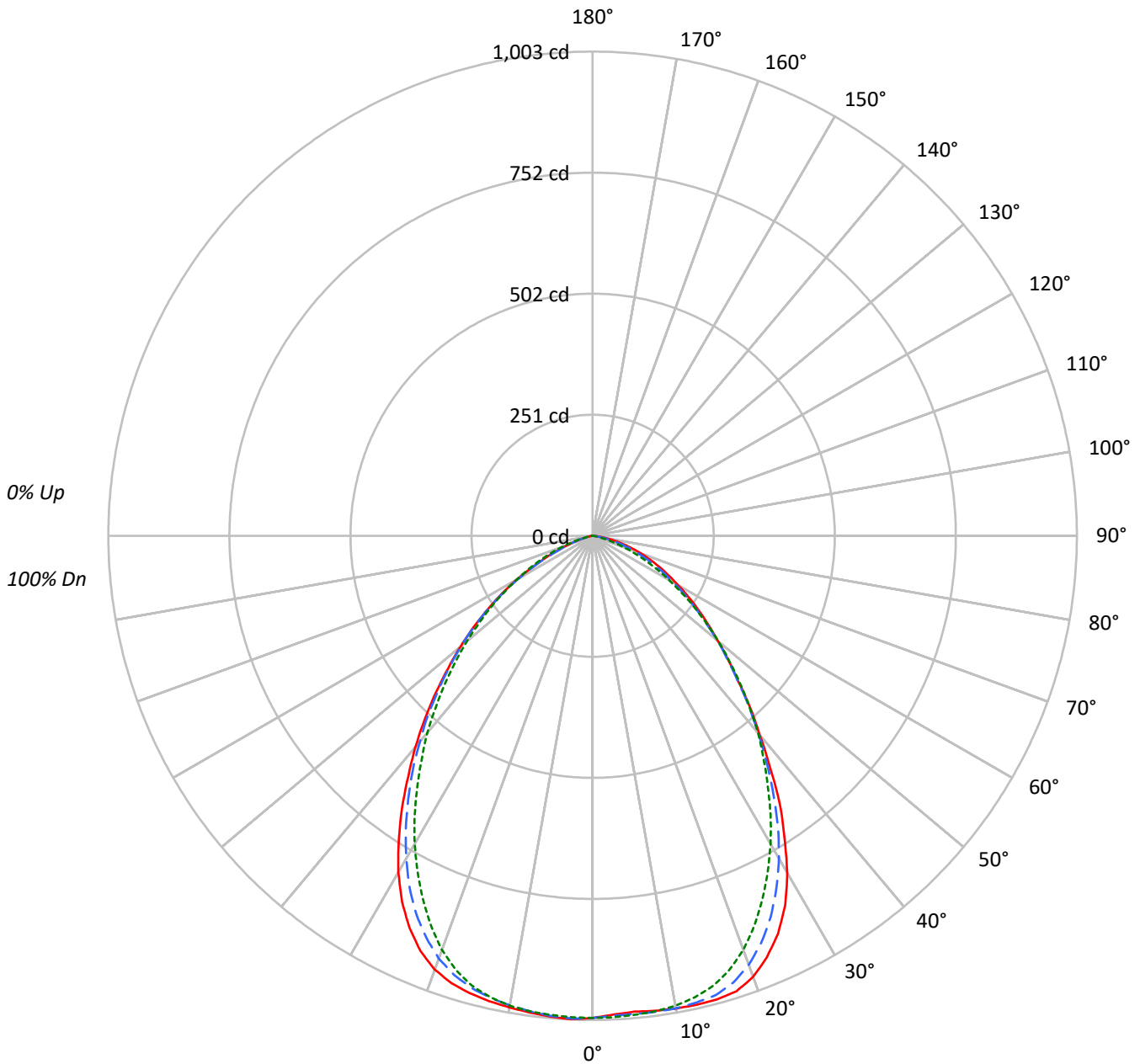
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1915.0 lumens  
Efficiency: N/A  
Efficacy: 60.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

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

	0°	90°	180°
0°	122718	122718	122718
5°	122028	122854	123323
10°	124050	123302	123763
15°	126475	122748	124796
20°	127103	119311	124999
25°	123191	112672	121524
30°	114353	104550	114140
35°	101264	94845	103169
40°	86329	85415	91493
45°	74170	75004	79695
50°	64734	64887	68328
55°	57210	54789	56631
60°	50124	44694	44522
65°	44389	34680	30872
70°	37860	23851	18319
75°	30616	12816	8354
80°	20942	3184	2122
85°	6343	1128	1128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.9	5.0
10°-20°	274.8	14.4
20°-30°	397.1	20.7
30°-40°	410.5	21.4
40°-50°	339.2	17.7
50°-60°	234.1	12.2
60°-70°	122.6	6.4
70°-80°	38.6	2.0
80°-90°	3.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	766.8	40.0
0°-40°	1177.3	61.5
0°-60°	1750.6	91.4
0°-90°	1915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	990	994	996	998	1000	95
15°	994	985	965	970	981	281
25°	909	872	831	865	896	415
35°	675	653	632	665	688	419
45°	427	425	432	452	459	333
55°	267	259	256	263	264	240
65°	153	138	119	99	106	151
75°	64	51	27	18	18	69
85°	4	2	1	1	1	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	992.5	992.9	992.9	993.6	993.6	993.6	994.0	994.0	994.4	994.7	995.1
5°	989.5	989.5	990.2	990.6	991.4	991.7	992.5	992.9	993.6	994.0	994.4
7.5°	992.5	992.5	992.9	993.2	993.2	993.6	993.6	994.0	994.4	994.7	994.7
10°	994.4	994.4	994.4	994.4	994.7	994.7	994.7	994.4	994.4	994.4	994.0
12.5°	995.1	995.1	994.7	994.4	994.7	994.4	994.4	993.2	992.5	991.7	990.6
15°	994.4	994.4	994.0	993.6	993.2	992.5	992.1	990.2	988.7	986.5	985.0
17.5°	989.5	988.7	988.0	987.2	985.7	984.6	983.9	980.5	977.9	974.1	970.0
20°	972.2	971.5	970.4	968.5	966.6	965.1	962.9	958.0	955.4	949.7	945.6
22.5°	944.1	943.3	943.7	940.3	936.6	934.3	932.8	928.7	924.2	917.1	912.6
25°	908.8	906.6	906.6	901.3	899.5	898.0	896.1	891.2	884.5	878.1	872.1
27.5°	863.1	860.1	858.6	857.8	853.3	850.0	847.3	843.6	837.9	832.3	824.1
30°	806.1	805.7	803.8	800.4	797.1	795.6	792.6	786.2	780.9	776.8	771.6
32.5°	738.9	738.5	738.5	738.5	736.3	735.9	731.4	728.0	723.9	717.5	714.2
35°	675.2	674.8	675.2	669.5	668.0	666.9	666.5	664.3	658.7	655.7	652.7
37.5°	603.1	604.3	603.5	602.0	603.9	600.5	603.1	598.3	596.0	595.3	591.9
40°	538.3	541.3	538.3	538.6	540.5	537.1	537.1	536.4	534.9	534.1	533.4
42.5°	482.7	479.0	481.2	479.4	481.2	480.1	478.2	479.4	479.7	478.2	477.9
45°	426.9	427.6	428.4	427.2	427.2	426.1	429.1	427.2	427.2	427.6	425.0
47.5°	381.5	380.3	381.1	380.3	380.7	380.0	380.7	381.1	380.3	380.3	378.1
50°	338.7	338.0	340.6	338.3	338.3	338.0	338.3	337.6	336.5	336.5	337.2
52.5°	301.6	300.1	299.7	301.6	298.9	298.9	299.3	298.6	297.1	296.3	294.4
55°	267.1	266.7	267.1	265.6	264.8	264.8	262.9	262.2	261.8	259.9	258.8
57.5°	234.8	233.7	234.1	233.7	232.2	231.8	230.3	230.3	228.8	227.3	225.4
60°	204.0	204.0	205.2	203.7	202.5	201.8	201.0	200.3	197.7	195.0	192.8
62.5°	176.7	177.0	176.7	175.5	174.8	174.0	173.3	171.0	168.8	167.3	164.7
65°	152.7	152.3	151.2	150.4	148.5	148.5	147.0	145.9	143.3	141.0	138.4
67.5°	127.9	127.2	127.2	127.2	124.9	124.5	123.8	121.5	119.3	116.3	114.0
70°	105.4	106.2	105.0	103.9	102.8	102.4	101.3	99.0	96.4	93.4	91.5
72.5°	84.0	84.8	83.6	83.3	81.0	80.3	79.9	78.0	75.0	73.1	70.1
75°	64.5	64.9	64.1	63.4	61.9	61.5	59.6	58.1	56.3	53.3	50.6
77.5°	46.5	45.8	45.8	44.3	42.8	42.8	42.4	40.1	37.5	35.3	33.0
80°	29.6	29.3	28.1	27.4	26.3	25.9	25.5	23.6	21.8	20.3	18.8
82.5°	15.0	14.6	14.3	13.9	13.1	12.4	12.8	11.3	10.5	9.0	7.9
85°	4.5	4.9	4.9	4.5	4.1	4.1	4.1	3.8	3.0	2.6	2.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	995.5	995.9	996.2	996.6	996.6	997.0	997.4	997.7	998.1	998.1	998.5
5°	994.7	995.5	995.5	995.9	995.9	995.9	996.2	996.2	996.2	996.2	996.6
7.5°	995.1	995.1	995.1	994.7	994.7	994.4	994.4	994.4	993.6	993.6	993.6
10°	993.2	992.9	992.5	991.7	991.4	991.0	990.2	989.5	988.7	988.4	987.6
12.5°	989.5	988.0	986.5	985.0	984.2	983.9	982.4	981.2	980.1	979.0	978.2
15°	982.0	979.7	977.1	974.1	973.4	972.6	970.0	967.7	966.2	965.1	963.2
17.5°	967.0	962.5	959.5	955.0	953.1	952.4	948.2	946.0	943.3	942.6	941.1
20°	940.3	936.2	930.6	926.5	924.2	922.0	918.6	915.6	912.6	912.6	910.7
22.5°	907.0	901.7	894.6	889.3	889.0	884.5	881.5	878.1	877.0	874.7	874.7
25°	865.0	860.5	852.6	848.1	845.8	844.7	839.8	835.3	833.1	831.2	832.7
27.5°	818.4	811.7	805.7	800.1	798.2	795.9	791.4	789.6	785.4	785.1	784.7
30°	765.2	758.4	752.4	749.8	746.1	744.2	740.8	738.5	737.0	737.0	736.3
32.5°	709.3	703.3	700.3	694.7	692.8	690.2	687.9	685.7	686.4	685.7	686.0
35°	648.9	647.4	641.8	638.4	638.4	638.0	634.3	632.8	632.0	632.4	634.3
37.5°	591.5	587.0	583.3	581.0	582.9	580.6	580.3	580.3	582.5	581.0	584.0
40°	530.4	530.0	528.5	529.3	529.6	527.0	527.7	528.1	529.6	532.6	533.0
42.5°	477.1	476.7	476.7	476.7	476.0	474.5	476.0	478.6	478.2	480.5	482.4
45°	425.7	425.0	426.5	425.4	427.6	428.4	427.2	428.0	430.2	431.7	434.7
47.5°	378.8	378.8	379.2	380.0	377.7	379.6	380.3	381.8	383.0	383.7	385.2
50°	335.3	335.3	334.6	334.6	334.6	335.7	334.2	336.1	336.5	339.5	341.3
52.5°	295.2	293.3	294.4	293.7	292.2	291.4	292.2	292.6	294.8	295.6	297.8
55°	256.9	256.9	253.9	253.2	254.3	253.9	253.6	253.6	254.7	255.8	257.7
57.5°	223.2	220.9	218.7	218.3	217.2	217.6	217.6	217.2	216.4	216.8	217.2
60°	191.3	189.8	186.4	186.4	186.0	185.7	183.8	183.4	181.5	181.9	180.4
62.5°	162.0	161.3	156.8	155.3	155.3	154.2	152.3	151.9	149.3	149.3	147.8
65°	135.8	133.5	130.9	128.3	128.3	126.8	125.7	122.3	120.4	119.3	117.0
67.5°	111.8	108.4	105.8	103.5	102.0	101.6	99.0	96.8	93.8	91.9	88.5
70°	88.5	85.9	83.3	81.0	79.5	78.0	75.4	72.0	69.8	66.4	64.1
72.5°	66.8	64.5	62.3	59.3	57.4	56.3	53.6	50.6	46.9	44.6	41.6
75°	48.0	45.4	42.4	39.8	38.6	37.5	34.5	32.3	29.6	27.0	24.0
77.5°	31.1	28.1	25.9	22.9	22.5	21.8	18.8	16.5	14.6	13.1	11.3
80°	16.5	15.0	13.1	11.3	10.5	9.4	7.9	6.8	5.6	4.5	3.8
82.5°	7.1	6.0	4.9	4.1	3.8	3.4	2.6	2.3	1.9	1.9	1.5
85°	1.9	1.5	1.5	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	998.9	999.2	999.6	999.6	1000.0	1000.4	1000.4	1000.7	1001.1	1001.5	1001.5
5°	997.0	997.0	997.0	997.4	997.4	997.4	997.4	998.1	998.1	998.5	998.9
7.5°	993.2	993.2	993.2	993.2	992.9	993.2	992.9	992.9	993.6	994.0	994.4
10°	987.2	986.9	986.9	986.5	986.5	986.5	986.9	987.2	987.6	988.0	989.1
12.5°	977.9	977.5	977.5	977.1	977.1	977.5	977.9	978.6	980.1	980.9	982.4
15°	962.9	962.5	962.9	963.2	964.0	965.1	966.2	967.4	969.6	971.5	973.4
17.5°	941.1	941.5	941.8	942.6	943.7	945.2	948.2	951.2	953.9	956.9	959.9
20°	911.1	912.6	913.0	915.6	916.3	919.7	923.1	927.6	931.7	935.5	939.6
22.5°	875.1	876.2	877.7	880.7	882.6	887.1	891.2	896.5	901.0	905.8	911.8
25°	834.2	834.6	839.1	839.1	843.6	847.3	852.2	857.8	864.6	871.0	875.1
27.5°	787.7	789.6	792.9	794.4	797.8	803.8	807.9	814.7	821.4	827.1	831.6
30°	738.9	740.4	746.1	746.8	749.4	754.7	760.3	766.7	771.9	778.3	782.4
32.5°	687.5	691.7	695.0	697.7	698.4	706.3	709.3	713.8	719.8	726.2	730.3
35°	637.7	639.5	644.4	645.9	648.2	652.7	658.7	662.4	665.4	669.5	674.4
37.5°	584.8	590.4	591.5	596.0	596.8	600.9	603.9	608.4	612.1	615.9	616.6
40°	535.6	537.5	541.6	542.8	543.5	549.1	552.9	554.0	555.9	559.3	563.8
42.5°	485.7	487.6	492.1	491.0	494.4	497.0	498.9	503.4	505.2	506.4	506.4
45°	436.6	437.4	440.4	441.9	443.7	445.2	448.6	450.9	451.6	455.0	456.1
47.5°	389.7	390.5	392.7	395.3	394.6	396.5	400.2	401.3	401.7	404.0	405.1
50°	343.6	345.5	348.5	347.7	350.0	351.1	354.5	355.2	355.2	355.6	356.0
52.5°	300.4	301.9	302.7	303.4	304.6	306.4	307.9	307.2	308.7	310.2	309.1
55°	257.7	258.8	260.7	261.4	261.4	261.8	261.1	264.4	262.9	262.6	262.9
57.5°	218.7	217.2	216.8	218.7	219.4	219.1	217.9	219.4	219.4	218.7	217.6
60°	180.8	179.7	179.3	179.7	178.2	177.0	177.8	177.0	175.2	174.4	174.8
62.5°	146.3	145.2	142.2	142.2	141.4	141.0	138.0	138.4	136.9	134.7	135.4
65°	114.4	111.4	109.9	109.5	106.9	104.6	103.9	101.3	99.0	98.6	99.0
67.5°	85.9	82.5	79.9	78.8	77.3	75.4	72.8	70.5	71.3	70.9	72.4
70°	59.6	57.4	54.8	52.9	53.6	51.4	49.9	49.9	50.3	50.6	51.4
72.5°	39.8	36.8	35.6	34.5	33.8	32.3	33.0	33.0	32.6	33.0	32.3
75°	22.5	21.0	19.9	19.5	18.8	18.8	18.8	18.8	18.4	18.0	18.0
77.5°	10.1	9.4	9.0	8.6	8.6	8.6	8.3	7.9	7.9	7.9	7.5
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	1.5	1.5	1.9	1.9	1.9	1.5	1.9	1.9	1.5	1.5	1.9
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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CATALOG NUMBER: LX4C25D010 EX4C259027 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	1001.9	1002.2	1002.2	1002.2	1002.6	1002.6	1002.6	1002.6
5°	999.2	999.6	999.6	999.6	1000.0	1000.0	1000.0	1000.0
7.5°	994.7	995.1	995.1	995.5	995.5	995.9	995.9	996.2
10°	989.5	990.2	990.6	991.0	991.4	991.7	991.7	992.1
12.5°	983.9	984.6	985.0	985.7	986.5	986.9	987.2	987.6
15°	975.6	977.1	977.9	978.2	979.7	980.5	980.9	981.2
17.5°	962.5	965.5	966.6	967.4	968.9	970.4	971.5	971.9
20°	943.7	947.1	948.6	950.5	952.7	954.6	955.4	956.1
22.5°	917.5	921.2	923.5	925.7	927.6	929.5	932.5	931.3
25°	880.0	886.3	889.0	890.1	894.2	896.5	898.0	896.5
27.5°	837.9	841.7	843.9	846.6	849.6	851.8	852.6	854.8
30°	787.3	793.7	793.3	795.9	799.7	801.9	802.7	804.6
32.5°	734.8	737.8	740.0	739.7	741.2	745.3	743.8	747.2
35°	678.9	679.3	683.0	682.7	685.7	685.7	685.7	687.9
37.5°	619.3	623.8	621.9	626.4	624.9	626.0	626.0	626.8
40°	564.9	566.4	566.4	567.9	569.0	567.9	568.6	570.5
42.5°	508.6	510.1	510.5	509.7	510.9	514.2	511.6	513.9
45°	456.1	457.2	458.7	457.6	459.5	458.4	459.5	458.7
47.5°	406.6	406.2	405.8	408.8	406.2	406.6	408.1	405.5
50°	356.0	358.2	356.7	357.8	358.6	358.6	357.5	357.5
52.5°	310.9	310.6	309.4	310.6	309.8	310.2	310.9	310.2
55°	264.4	265.9	265.2	264.8	265.2	265.2	267.4	264.4
57.5°	218.7	217.9	219.1	221.7	219.1	220.9	222.1	222.4
60°	175.2	175.2	177.4	176.3	178.5	180.4	181.9	181.2
62.5°	133.5	135.4	136.2	136.5	138.8	140.3	140.3	139.9
65°	99.0	101.6	101.6	103.1	103.9	103.9	104.6	106.2
67.5°	73.1	73.1	73.5	74.3	73.9	73.9	74.6	75.0
70°	51.0	50.3	51.4	51.0	51.0	50.6	51.0	51.0
72.5°	32.3	32.3	32.6	32.3	31.5	31.9	31.9	32.6
75°	17.3	18.0	17.3	17.3	17.6	16.9	17.3	17.6
77.5°	7.1	7.1	7.1	7.1	7.1	6.8	6.8	6.8
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.0	3.0
82.5°	1.5	1.9	1.5	1.9	1.5	1.5	1.5	1.5
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)