

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P252692

Luminaire Tested: **LD6B30D010 EU6B30509024 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509024 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1993.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

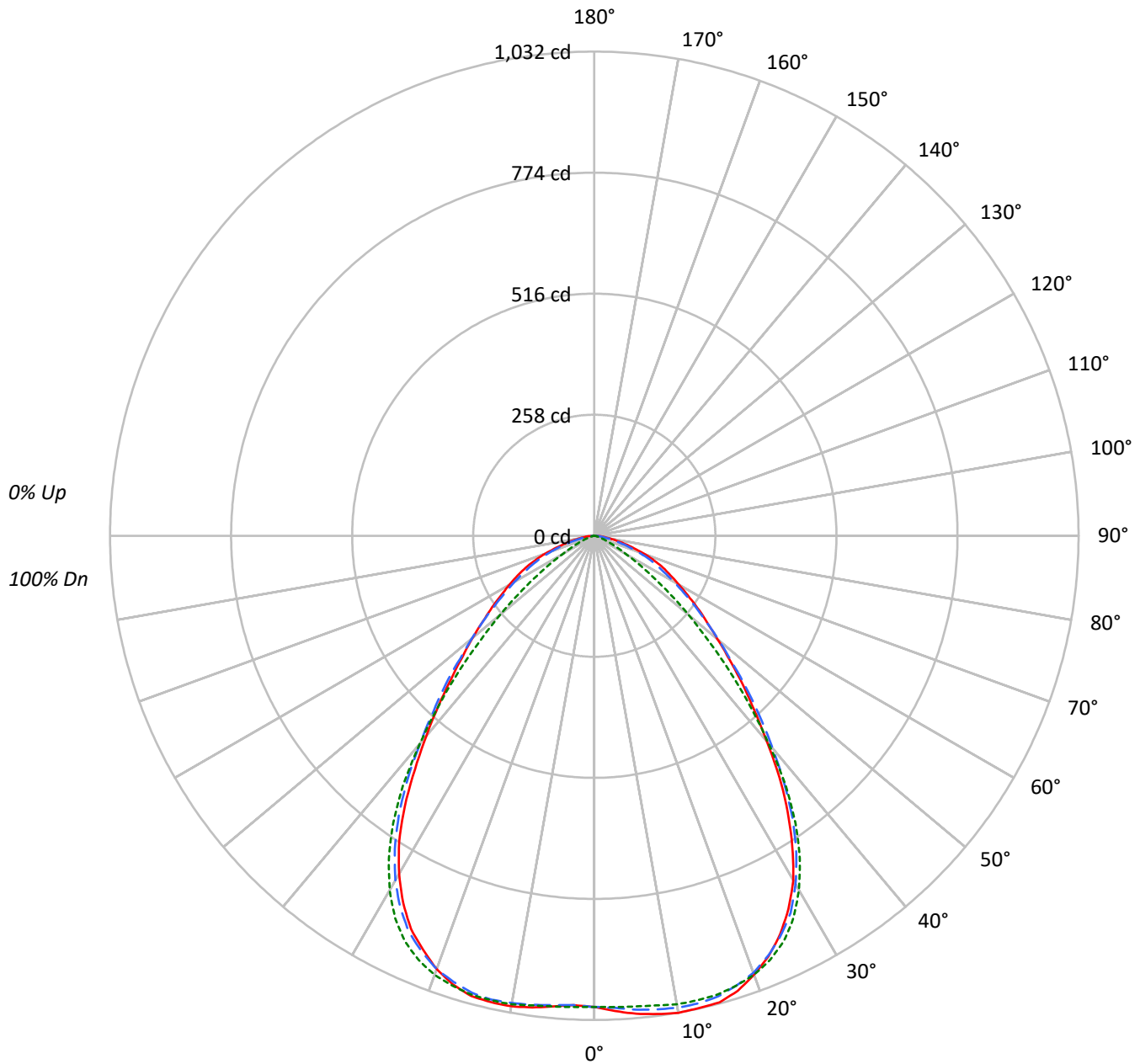
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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			100
1	111	107	104	101	109	105	102	99		101	98	96			97	95	93			89
2	103	96	91	86	101	95	89	85		91	87	83			88	84	81			78
3	95	87	80	75	93	85	79	74		82	77	73			80	75	71			68
4	89	78	71	65	87	77	70	65		75	69	64			73	67	63			61
5	82	71	64	58	80	70	63	58		68	62	57			66	61	56			54
6	77	65	57	52	75	64	57	51		63	56	51			61	55	51			48
7	72	60	52	47	70	59	52	46		58	51	46			56	50	46			44
8	67	55	47	42	66	54	47	42		53	47	42			52	46	42			40
9	63	51	43	38	62	50	43	38		49	43	38			48	42	38			36
10	59	47	40	35	58	47	40	35		46	39	35			45	39	35			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	65508	65508	65508
5°	66970	65948	65948
10°	68400	67181	67459
15°	69548	68393	68589
20°	69122	69122	68233
25°	67479	68703	66557
30°	63875	65691	62700
35°	57232	59502	56101
40°	48621	49226	47412
45°	41150	37607	39701
50°	34742	26521	34306
55°	30529	17118	30210
60°	27062	10191	27244
65°	24993	6144	24993
70°	21669	3529	21135
75°	17191	2143	16107
80°	12812	1616	12286
85°	11677	1048	10629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	4.9
10°-20°	286.1	14.4
20°-30°	430.3	21.6
30°-40°	452.4	22.7
40°-50°	338.0	17.0
50°-60°	210.4	10.6
60°-70°	119.7	6.0
70°-80°	49.3	2.5
80°-90°	10.2	0.5
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°	813.1	40.8
0°-40°	1265.5	63.5
0°-60°	1813.9	91.0
0°-90°	1993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1004	1004	1004	1004	1004	
5°	1023	1014	1007	1004	1007	98
15°	1030	1017	1013	1008	1016	289
25°	937	940	954	933	925	429
35°	719	737	747	726	704	446
45°	446	456	408	447	430	346
55°	268	263	150	258	266	241
65°	162	145	40	145	162	159
75°	68	54	8	52	64	74
85°	16	10	1	8	14	17
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°	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1
2.5°	1014.1	1012.6	1014.1	1011.2	1009.8	1009.8	1011.2	1008.4	1007.0	1008.4	1007.0
5°	1022.6	1019.7	1021.2	1019.7	1016.9	1016.9	1018.3	1014.1	1014.1	1015.5	1014.1
7.5°	1028.3	1028.3	1028.3	1025.4	1024.0	1022.6	1025.4	1021.2	1019.7	1019.7	1018.3
10°	1032.5	1031.1	1032.5	1029.7	1026.8	1025.4	1028.3	1025.4	1022.6	1025.4	1021.2
12.5°	1031.1	1031.1	1031.1	1029.7	1026.8	1025.4	1028.3	1024.0	1022.6	1024.0	1021.2
15°	1029.7	1025.4	1026.8	1025.4	1021.2	1021.2	1022.6	1018.3	1015.5	1019.7	1016.9
17.5°	1016.9	1014.1	1015.5	1012.6	1009.8	1008.4	1009.8	1008.4	1005.5	1008.4	1005.5
20°	995.6	995.6	997.0	994.2	991.3	989.9	992.8	989.9	987.1	991.3	991.3
22.5°	970.0	970.0	970.0	968.6	967.2	967.2	967.2	965.8	964.3	967.2	968.6
25°	937.4	935.9	937.4	938.8	937.4	935.9	937.4	937.4	934.5	940.2	940.2
27.5°	896.2	896.2	899.0	897.6	897.6	896.2	899.0	899.0	897.6	901.9	906.1
30°	847.9	845.0	847.9	847.9	849.3	849.3	850.7	850.7	850.7	855.0	857.8
32.5°	785.4	786.8	791.1	789.7	788.2	792.5	792.5	795.3	796.8	799.6	801.0
35°	718.6	720.1	720.1	721.5	724.3	721.5	728.6	727.2	728.6	734.3	737.1
37.5°	647.6	643.4	650.5	647.6	649.1	649.1	651.9	653.3	657.6	664.7	664.7
40°	570.9	572.4	575.2	576.6	578.0	578.0	578.0	582.3	583.7	592.2	590.8
42.5°	504.2	504.2	507.0	508.4	508.4	508.4	508.4	512.7	515.6	518.4	521.2
45°	446.0	441.7	444.5	444.5	447.4	446.0	448.8	451.6	453.1	457.3	455.9
47.5°	390.6	389.1	390.6	392.0	390.6	392.0	393.4	394.8	396.2	396.2	396.2
50°	342.3	342.3	343.7	345.1	345.1	345.1	345.1	346.5	346.5	349.4	346.5
52.5°	302.5	303.9	303.9	302.5	303.9	303.9	305.4	305.4	303.9	303.9	299.7
55°	268.4	267.0	268.4	267.0	268.4	268.4	267.0	267.0	265.6	264.2	262.7
57.5°	235.8	235.8	235.8	235.8	234.3	235.8	234.3	232.9	232.9	230.1	225.8
60°	207.4	207.4	207.4	207.4	207.4	205.9	207.4	205.9	203.1	200.3	194.6
62.5°	183.2	181.8	183.2	181.8	181.8	180.4	180.4	179.0	176.1	173.3	167.6
65°	161.9	163.3	161.9	161.9	160.5	159.1	159.1	157.6	153.4	150.5	144.9
67.5°	139.2	137.8	137.8	137.8	136.3	136.3	136.3	133.5	130.7	126.4	120.7
70°	113.6	113.6	113.6	112.2	112.2	110.8	110.8	109.4	106.5	103.7	96.6
72.5°	89.5	89.5	89.5	86.6	88.1	86.6	86.6	83.8	82.4	78.1	73.9
75°	68.2	68.2	66.8	66.8	65.3	63.9	63.9	62.5	61.1	58.2	54.0
77.5°	49.7	49.7	49.7	48.3	46.9	45.4	45.4	44.0	42.6	41.2	38.3
80°	34.1	34.1	34.1	34.1	32.7	31.2	31.2	29.8	29.8	28.4	25.6
82.5°	22.7	22.7	22.7	22.7	21.3	21.3	21.3	19.9	18.5	18.5	15.6
85°	15.6	15.6	14.2	14.2	14.2	14.2	12.8	12.8	11.4	9.9	9.9
87.5°	8.5	8.5	8.5	8.5	7.1	7.1	7.1	7.1	5.7	5.7	4.3
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°	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1
2.5°	1011.2	1011.2	1009.8	1005.5	1007.0	1005.5	1007.0	1005.5	1001.3	1005.5	1001.3
5°	1016.9	1018.3	1015.5	1009.8	1011.2	1009.8	1009.8	1008.4	1004.1	1007.0	1004.1
7.5°	1022.6	1021.2	1019.7	1014.1	1015.5	1014.1	1014.1	1011.2	1007.0	1009.8	1005.5
10°	1025.4	1025.4	1022.6	1016.9	1016.9	1015.5	1016.9	1015.5	1009.8	1014.1	1011.2
12.5°	1025.4	1024.0	1024.0	1016.9	1018.3	1016.9	1018.3	1015.5	1011.2	1014.1	1012.6
15°	1021.2	1021.2	1019.7	1012.6	1014.1	1014.1	1015.5	1012.6	1008.4	1012.6	1009.8
17.5°	1012.6	1012.6	1011.2	1005.5	1008.4	1008.4	1009.8	1007.0	1002.7	1005.5	1005.5
20°	995.6	997.0	997.0	992.8	995.6	995.6	997.0	995.6	994.2	995.6	992.8
22.5°	975.7	978.6	978.6	974.3	977.1	977.1	981.4	980.0	977.1	978.6	977.1
25°	945.9	948.7	951.6	948.7	951.6	951.6	955.8	954.4	951.6	954.4	950.1
27.5°	911.8	913.2	916.1	913.2	917.5	916.1	920.3	918.9	914.6	918.9	917.5
30°	863.5	869.2	873.5	869.2	873.5	873.5	876.3	874.9	873.5	872.0	872.0
32.5°	809.5	815.2	815.2	813.8	816.6	816.6	818.1	815.2	813.8	815.2	816.6
35°	742.8	745.6	748.5	747.1	748.5	749.9	748.5	749.9	745.6	747.1	747.1
37.5°	670.4	673.2	673.2	668.9	671.8	671.8	668.9	668.9	666.1	668.9	663.3
40°	593.7	590.8	592.2	589.4	586.6	586.6	585.1	579.5	576.6	578.0	579.5
42.5°	518.4	518.4	514.1	507.0	499.9	499.9	495.7	492.8	487.1	490.0	488.6
45°	454.5	447.4	441.7	430.3	426.1	423.2	416.1	409.0	406.2	407.6	406.2
47.5°	393.4	387.7	373.5	357.9	353.6	349.4	340.9	332.3	329.5	326.7	326.7
50°	342.3	332.3	316.7	299.7	292.6	285.5	274.1	265.6	259.9	261.3	261.3
52.5°	295.4	284.0	265.6	244.3	235.8	227.2	217.3	207.4	203.1	201.7	201.7
55°	254.2	241.4	223.0	198.8	191.7	181.8	169.0	157.6	152.0	150.5	153.4
57.5°	217.3	205.9	184.6	160.5	152.0	142.0	129.2	119.3	112.2	110.8	112.2
60°	187.5	171.9	153.4	130.7	119.3	110.8	96.6	88.1	81.0	78.1	79.5
62.5°	157.6	143.4	125.0	102.3	93.7	85.2	72.4	62.5	56.8	55.4	56.8
65°	134.9	120.7	103.7	83.8	75.3	66.8	55.4	45.4	41.2	39.8	41.2
67.5°	112.2	99.4	85.2	66.8	59.7	52.5	41.2	34.1	28.4	27.0	28.4
70°	90.9	79.5	65.3	52.5	45.4	39.8	31.2	24.1	19.9	18.5	19.9
72.5°	68.2	59.7	49.7	38.3	34.1	29.8	22.7	17.0	14.2	12.8	14.2
75°	49.7	42.6	35.5	27.0	24.1	21.3	15.6	11.4	9.9	8.5	9.9
77.5°	34.1	29.8	24.1	18.5	15.6	14.2	9.9	8.5	7.1	5.7	5.7
80°	22.7	19.9	15.6	12.8	11.4	9.9	7.1	5.7	4.3	4.3	4.3
82.5°	14.2	11.4	9.9	7.1	5.7	5.7	4.3	2.8	2.8	2.8	2.8
85°	8.5	7.1	5.7	4.3	2.8	2.8	1.4	1.4	1.4	1.4	1.4
87.5°	4.3	2.8	2.8	1.4	1.4	1.4	1.4	1.4	0.0	0.0	1.4
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°	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1
2.5°	1004.1	1001.3	1001.3	1002.7	1004.1	1005.5	1002.7	1001.3	1001.3	1005.5	1002.7
5°	1004.1	1002.7	1002.7	1002.7	1005.5	1007.0	1004.1	1002.7	1004.1	1008.4	1007.0
7.5°	1008.4	1005.5	1007.0	1007.0	1008.4	1011.2	1008.4	1007.0	1008.4	1012.6	1009.8
10°	1011.2	1008.4	1009.8	1008.4	1012.6	1014.1	1011.2	1009.8	1011.2	1016.9	1015.5
12.5°	1012.6	1011.2	1011.2	1009.8	1014.1	1015.5	1012.6	1011.2	1012.6	1016.9	1015.5
15°	1009.8	1008.4	1008.4	1008.4	1011.2	1014.1	1009.8	1008.4	1008.4	1012.6	1011.2
17.5°	1004.1	1001.3	1001.3	1001.3	1002.7	1004.1	999.9	998.4	997.0	1001.3	999.9
20°	994.2	991.3	988.5	988.5	989.9	989.9	987.1	982.8	982.8	984.2	981.4
22.5°	975.7	974.3	971.5	970.0	972.9	971.5	965.8	961.5	960.1	961.5	958.7
25°	950.1	947.3	945.9	944.5	945.9	944.5	938.8	933.1	933.1	933.1	928.8
27.5°	914.6	911.8	910.4	910.4	911.8	909.0	903.3	897.6	894.8	894.8	890.5
30°	869.2	869.2	867.8	866.4	864.9	864.9	856.4	850.7	847.9	849.3	846.5
32.5°	813.8	812.4	811.0	806.7	808.1	806.7	799.6	795.3	791.1	788.2	786.8
35°	742.8	742.8	741.4	741.4	741.4	739.9	732.8	728.6	725.7	724.3	720.1
37.5°	664.7	663.3	661.8	661.8	661.8	661.8	657.6	653.3	653.3	651.9	649.1
40°	576.6	578.0	579.5	578.0	582.3	586.6	580.9	578.0	576.6	580.9	575.2
42.5°	491.4	490.0	497.1	498.5	498.5	505.6	507.0	508.4	507.0	509.9	509.9
45°	409.0	407.6	414.7	417.6	424.7	433.2	437.4	444.5	447.4	450.2	447.4
47.5°	330.9	336.6	342.3	349.4	355.1	369.3	377.8	384.9	387.7	392.0	392.0
50°	265.6	271.3	281.2	286.9	294.0	311.0	325.2	335.2	340.9	345.1	343.7
52.5°	204.5	214.5	227.2	232.9	242.9	262.7	278.4	289.7	296.8	301.1	302.5
55°	157.6	166.2	179.0	187.5	197.4	218.7	238.6	251.4	258.5	264.2	267.0
57.5°	116.5	126.4	140.6	147.7	159.1	183.2	200.3	215.9	224.4	231.5	232.9
60°	85.2	95.2	107.9	116.5	127.8	152.0	171.9	186.1	196.0	201.7	204.5
62.5°	61.1	71.0	83.8	92.3	102.3	123.6	143.4	157.6	167.6	174.7	179.0
65°	44.0	54.0	66.8	73.9	82.4	102.3	120.7	134.9	144.9	153.4	156.2
67.5°	32.7	39.8	51.1	58.2	66.8	82.4	98.0	110.8	120.7	127.8	130.7
70°	24.1	29.8	39.8	44.0	49.7	63.9	76.7	88.1	96.6	102.3	105.1
72.5°	17.0	21.3	28.4	32.7	36.9	48.3	58.2	66.8	72.4	78.1	81.0
75°	11.4	14.2	19.9	22.7	25.6	34.1	41.2	48.3	52.5	56.8	58.2
77.5°	7.1	9.9	14.2	15.6	18.5	22.7	28.4	32.7	35.5	38.3	41.2
80°	4.3	5.7	8.5	9.9	11.4	15.6	18.5	21.3	24.1	27.0	28.4
82.5°	2.8	4.3	5.7	5.7	7.1	8.5	11.4	14.2	15.6	17.0	18.5
85°	1.4	1.4	2.8	2.8	4.3	4.3	5.7	7.1	8.5	9.9	11.4
87.5°	1.4	1.4	1.4	1.4	2.8	2.8	4.3	4.3	4.3	5.7	5.7
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1	1004.1
2.5°	999.9	1004.1	999.9	1002.7	1001.3	1001.3	999.9	1001.3
5°	1004.1	1009.8	1004.1	1008.4	1005.5	1005.5	1005.5	1007.0
7.5°	1008.4	1014.1	1009.8	1014.1	1012.6	1011.2	1011.2	1014.1
10°	1012.6	1016.9	1014.1	1018.3	1016.9	1015.5	1015.5	1018.3
12.5°	1012.6	1018.3	1015.5	1019.7	1018.3	1016.9	1016.9	1018.3
15°	1008.4	1015.5	1011.2	1015.5	1014.1	1012.6	1012.6	1015.5
17.5°	995.6	1001.3	998.4	1001.3	1001.3	999.9	1001.3	1002.7
20°	978.6	982.8	980.0	982.8	982.8	980.0	981.4	982.8
22.5°	954.4	958.7	955.8	958.7	957.2	955.8	955.8	954.4
25°	924.6	930.3	926.0	928.8	926.0	923.2	923.2	924.6
27.5°	887.7	891.9	886.2	889.1	886.2	883.4	883.4	882.0
30°	839.4	840.8	836.5	839.4	836.5	835.1	832.3	832.3
32.5°	781.1	782.6	778.3	778.3	775.5	775.5	769.8	774.0
35°	713.0	714.4	713.0	711.5	707.3	705.9	704.4	704.4
37.5°	642.0	642.0	637.7	636.3	633.4	630.6	632.0	627.8
40°	569.5	568.1	563.8	565.3	563.8	559.6	558.2	556.7
42.5°	501.3	501.3	497.1	498.5	495.7	494.2	490.0	491.4
45°	441.7	441.7	437.4	437.4	436.0	431.8	433.2	430.3
47.5°	387.7	387.7	386.3	386.3	382.0	380.6	380.6	380.6
50°	340.9	340.9	340.9	340.9	339.4	338.0	336.6	338.0
52.5°	301.1	303.9	302.5	302.5	301.1	299.7	298.3	298.3
55°	265.6	267.0	267.0	268.4	267.0	265.6	267.0	265.6
57.5°	234.3	237.2	237.2	237.2	237.2	237.2	235.8	234.3
60°	207.4	208.8	208.8	210.2	210.2	210.2	208.8	208.8
62.5°	180.4	183.2	184.6	184.6	186.1	184.6	184.6	184.6
65°	159.1	161.9	163.3	161.9	163.3	163.3	161.9	161.9
67.5°	133.5	136.3	136.3	136.3	136.3	137.8	136.3	136.3
70°	107.9	110.8	109.4	110.8	110.8	110.8	110.8	110.8
72.5°	82.4	83.8	85.2	85.2	86.6	85.2	85.2	85.2
75°	59.7	62.5	62.5	62.5	62.5	63.9	63.9	63.9
77.5°	42.6	44.0	44.0	45.4	45.4	45.4	45.4	46.9
80°	29.8	29.8	31.2	31.2	32.7	32.7	32.7	32.7
82.5°	19.9	21.3	21.3	21.3	21.3	21.3	21.3	21.3
85°	11.4	12.8	12.8	12.8	12.8	14.2	14.2	14.2
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	5.7	5.7
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)