

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: P252366

Luminaire Tested: **LD6B20D010 EU6B10208050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20D010 EU6B10208050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1908.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

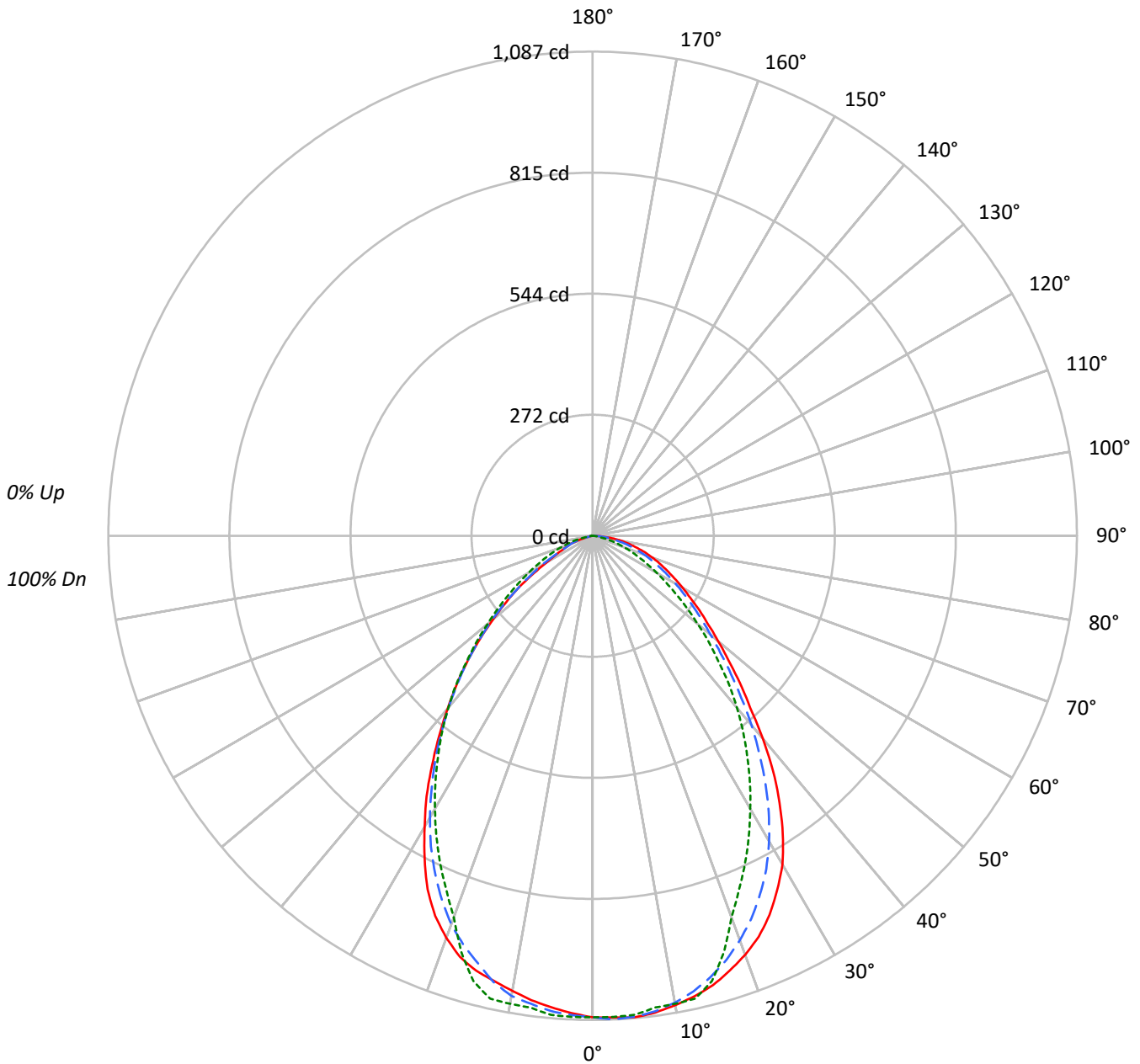
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	70532	70532	70532
5°	71076	70709	69603
10°	70878	70686	68738
15°	70554	69893	68278
20°	69504	63262	66671
25°	67616	58315	63066
30°	64199	53306	56801
35°	58260	48193	49985
40°	50580	42923	43043
45°	43134	36915	36527
50°	37341	31210	29495
55°	33372	26036	22840
60°	30415	21621	15384
65°	28389	17768	11485
70°	27048	14459	9633
75°	25484	10259	3176
80°	24271	5260	1052
85°	19986	3144	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	5.4
10°-20°	285.5	15.0
20°-30°	394.1	20.7
30°-40°	401.1	21.0
40°-50°	322.3	16.9
50°-60°	214.3	11.2
60°-70°	122.1	6.4
70°-80°	54.8	2.9
80°-90°	11.5	0.6
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°	781.7	41.0
0°-40°	1182.8	62.0
0°-60°	1719.5	90.1
0°-90°	1908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1081	1081	1081	1081	1081	
5°	1085	1084	1080	1071	1063	103
15°	1045	1025	1035	994	1011	294
25°	939	889	810	837	876	430
35°	732	675	605	616	628	455
45°	468	440	400	396	396	363
55°	293	274	229	204	201	264
65°	184	164	115	74	74	183
75°	101	84	41	17	13	108
85°	27	18	4	1	0	32
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°	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1
2.5°	1082.5	1088.1	1086.7	1085.3	1086.7	1085.3	1082.5	1082.5	1079.7	1079.7	1086.7
5°	1085.3	1088.1	1086.7	1085.3	1085.3	1086.7	1081.1	1081.1	1078.3	1076.9	1083.9
7.5°	1079.7	1083.9	1081.1	1081.1	1079.7	1081.1	1075.5	1075.5	1071.3	1069.9	1076.9
10°	1069.9	1075.5	1072.7	1072.7	1072.7	1069.9	1067.0	1065.6	1061.4	1060.0	1064.2
12.5°	1058.6	1062.8	1061.4	1058.6	1058.6	1058.6	1053.0	1051.6	1046.0	1043.2	1047.4
15°	1044.6	1047.4	1046.0	1044.6	1041.8	1041.8	1036.2	1033.4	1027.7	1022.1	1024.9
17.5°	1023.5	1027.7	1024.9	1023.5	1019.3	1019.3	1013.7	1010.9	1002.5	996.8	998.3
20°	1001.1	1002.5	1001.1	998.3	994.0	992.6	987.0	981.4	974.4	967.4	966.0
22.5°	974.4	975.8	971.6	968.8	964.6	963.2	956.1	951.9	940.7	932.3	930.9
25°	939.3	940.7	940.7	933.7	930.9	928.1	921.0	914.0	904.2	893.0	888.7
27.5°	897.2	901.4	898.6	891.5	885.9	884.5	877.5	871.9	859.3	849.4	843.8
30°	852.2	850.8	849.4	845.2	836.8	835.4	828.4	821.3	811.5	798.9	791.9
32.5°	794.7	794.7	793.3	789.1	780.6	777.8	772.2	763.8	752.6	742.7	735.7
35°	731.5	732.9	731.5	723.1	717.4	714.6	711.8	702.0	692.2	680.9	675.3
37.5°	665.5	661.3	662.7	655.7	648.7	651.5	643.0	638.8	627.6	619.2	613.6
40°	593.9	596.7	591.1	588.3	584.1	579.9	579.9	572.8	567.2	557.4	554.6
42.5°	523.7	527.9	526.5	523.7	518.1	519.5	512.5	509.7	502.6	498.4	494.2
45°	467.5	467.5	467.5	464.7	463.3	460.5	456.3	452.1	447.9	442.3	439.5
47.5°	412.8	412.8	414.2	411.4	408.6	407.2	404.4	404.4	397.3	391.7	388.9
50°	367.9	367.9	367.9	365.0	362.2	362.2	359.4	356.6	352.4	348.2	345.4
52.5°	327.1	327.1	327.1	324.3	322.9	321.5	320.1	318.7	313.1	310.3	307.5
55°	293.4	292.0	292.0	290.6	287.8	287.8	286.4	283.6	279.4	275.2	273.8
57.5°	259.7	261.1	259.7	259.7	256.9	256.9	254.1	252.7	248.5	245.7	242.9
60°	233.1	233.1	233.1	231.7	228.9	230.3	227.4	226.0	221.8	217.6	214.8
62.5°	206.4	207.8	207.8	206.4	203.6	203.6	202.2	200.8	196.6	192.3	188.1
65°	183.9	183.9	183.9	182.5	181.1	181.1	179.7	178.3	174.1	168.5	164.3
67.5°	162.9	161.5	161.5	161.5	160.1	158.7	157.2	155.8	151.6	147.4	141.8
70°	141.8	141.8	141.8	140.4	137.6	139.0	137.6	136.2	132.0	127.8	123.6
72.5°	122.1	122.1	120.7	119.3	119.3	117.9	117.9	116.5	112.3	106.7	102.5
75°	101.1	101.1	101.1	101.1	98.3	99.7	96.9	95.5	92.7	88.5	84.2
77.5°	82.8	82.8	82.8	81.4	80.0	80.0	78.6	77.2	73.0	70.2	64.6
80°	64.6	64.6	64.6	64.6	63.2	61.8	60.4	59.0	56.2	51.9	47.7
82.5°	47.7	47.7	46.3	46.3	46.3	44.9	43.5	42.1	39.3	36.5	33.7
85°	26.7	28.1	28.1	25.3	26.7	25.3	25.3	22.5	22.5	19.7	18.3
87.5°	9.8	8.4	8.4	8.4	8.4	8.4	8.4	7.0	7.0	7.0	5.6
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°	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1
2.5°	1081.1	1079.7	1085.3	1085.3	1076.9	1081.1	1082.5	1079.7	1079.7	1081.1	1076.9
5°	1078.3	1075.5	1081.1	1082.5	1074.1	1078.3	1079.7	1076.9	1078.3	1079.7	1074.1
7.5°	1068.5	1068.5	1072.7	1074.1	1065.6	1069.9	1069.9	1067.0	1068.5	1068.5	1064.2
10°	1058.6	1054.4	1058.6	1058.6	1051.6	1053.0	1055.8	1054.4	1060.0	1067.0	1067.0
12.5°	1040.4	1036.2	1043.2	1043.2	1039.0	1044.6	1051.6	1055.8	1061.4	1064.2	1055.8
15°	1017.9	1019.3	1031.9	1041.8	1037.6	1046.0	1053.0	1050.2	1043.2	1034.8	1022.1
17.5°	988.4	984.2	995.4	1001.1	995.4	998.3	1003.9	998.3	987.0	980.0	963.2
20°	954.7	943.5	943.5	940.7	930.9	930.9	929.5	919.6	915.4	911.2	904.2
22.5°	916.8	904.2	900.0	891.5	883.1	881.7	877.5	867.7	862.1	859.3	850.8
25°	873.3	862.1	855.0	846.6	834.0	831.2	827.0	817.1	814.3	810.1	803.1
27.5°	828.4	814.3	804.5	796.1	784.8	783.4	775.0	768.0	762.4	759.6	754.0
30°	776.4	761.0	754.0	742.7	734.3	731.5	724.5	714.6	710.4	707.6	703.4
32.5°	718.9	706.2	699.2	689.4	678.1	679.5	671.1	662.7	659.9	657.1	652.9
35°	662.7	650.1	641.6	633.2	626.2	623.4	617.8	610.7	606.5	605.1	602.3
37.5°	600.9	591.1	584.1	575.6	570.0	567.2	564.4	557.4	554.6	554.6	549.0
40°	540.5	532.1	526.5	522.3	515.3	513.9	511.1	506.8	505.4	504.0	499.8
42.5°	485.8	474.6	470.3	467.5	463.3	460.5	459.1	456.3	454.9	453.5	449.3
45°	433.8	424.0	419.8	417.0	412.8	411.4	410.0	405.8	403.0	400.1	398.7
47.5°	383.3	376.3	374.9	367.9	365.0	362.2	359.4	356.6	355.2	353.8	348.2
50°	339.8	335.6	328.5	324.3	321.5	320.1	314.5	310.3	308.9	307.5	303.3
52.5°	300.5	294.8	290.6	283.6	282.2	279.4	276.6	271.0	268.2	266.8	262.6
55°	265.4	261.1	255.5	249.9	245.7	244.3	240.1	234.5	231.7	228.9	226.0
57.5°	235.9	228.9	223.2	217.6	214.8	210.6	206.4	203.6	199.4	195.2	190.9
60°	207.8	202.2	195.2	189.5	186.7	183.9	178.3	174.1	169.9	165.7	161.5
62.5°	181.1	175.5	168.5	162.9	160.1	157.2	151.6	147.4	143.2	139.0	133.4
65°	157.2	151.6	146.0	140.4	137.6	134.8	129.2	123.6	119.3	115.1	109.5
67.5°	137.6	130.6	125.0	119.3	116.5	113.7	108.1	103.9	98.3	94.1	88.5
70°	116.5	110.9	106.7	101.1	98.3	95.5	89.9	84.2	80.0	75.8	70.2
72.5°	98.3	91.3	87.0	81.4	78.6	77.2	71.6	67.4	63.2	57.6	53.4
75°	78.6	73.0	67.4	63.2	60.4	59.0	53.4	49.1	44.9	40.7	36.5
77.5°	60.4	56.2	50.5	46.3	43.5	42.1	36.5	32.3	28.1	25.3	21.1
80°	44.9	39.3	36.5	32.3	30.9	28.1	25.3	21.1	18.3	14.0	11.2
82.5°	30.9	26.7	23.9	21.1	19.7	18.3	15.4	12.6	9.8	8.4	7.0
85°	16.8	14.0	12.6	11.2	9.8	9.8	8.4	7.0	5.6	4.2	2.8
87.5°	5.6	4.2	4.2	4.2	4.2	2.8	2.8	2.8	1.4	1.4	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°	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1
2.5°	1079.7	1079.7	1079.7	1078.3	1078.3	1078.3	1076.9	1082.5	1076.9	1075.5	1079.7
5°	1078.3	1075.5	1075.5	1075.5	1075.5	1074.1	1072.7	1075.5	1071.3	1069.9	1069.9
7.5°	1069.9	1068.5	1068.5	1067.0	1065.6	1064.2	1062.8	1064.2	1060.0	1058.6	1058.6
10°	1071.3	1068.5	1068.5	1064.2	1061.4	1057.2	1053.0	1054.4	1048.8	1044.6	1044.6
12.5°	1054.4	1047.4	1043.2	1039.0	1036.2	1034.8	1029.1	1031.9	1026.3	1024.9	1024.9
15°	1016.5	1008.1	1001.1	998.3	998.3	995.4	991.2	996.8	994.0	995.4	1002.5
17.5°	957.5	953.3	949.1	947.7	949.1	951.9	954.7	963.2	963.2	967.4	974.4
20°	905.6	902.8	905.6	905.6	907.0	912.6	918.2	925.2	928.1	932.3	942.1
22.5°	855.0	855.0	857.9	862.1	860.7	870.5	871.9	884.5	884.5	893.0	901.4
25°	805.9	805.9	808.7	810.1	812.9	818.5	824.2	834.0	836.8	845.2	852.2
27.5°	758.2	756.8	756.8	758.2	761.0	768.0	770.8	782.0	786.2	791.9	798.9
30°	704.8	703.4	706.2	709.0	707.6	714.6	718.9	727.3	730.1	735.7	741.3
32.5°	654.3	654.3	654.3	657.1	657.1	662.7	662.7	672.5	672.5	676.7	682.3
35°	602.3	602.3	603.7	605.1	606.5	607.9	609.3	615.0	616.4	617.8	620.6
37.5°	553.2	551.8	553.2	553.2	550.4	556.0	556.0	561.6	557.4	561.6	563.0
40°	502.6	502.6	501.2	501.2	501.2	504.0	501.2	505.4	502.6	505.4	504.0
42.5°	450.7	450.7	447.9	450.7	449.3	449.3	449.3	452.1	447.9	450.7	452.1
45°	398.7	397.3	397.3	395.9	395.9	395.9	397.3	397.3	395.9	398.7	398.7
47.5°	348.2	346.8	346.8	346.8	346.8	348.2	344.0	346.8	344.0	344.0	344.0
50°	304.7	303.3	301.9	300.5	299.1	299.1	297.7	297.7	294.8	293.4	292.0
52.5°	262.6	261.1	258.3	258.3	256.9	255.5	251.3	251.3	247.1	245.7	245.7
55°	224.6	220.4	219.0	216.2	216.2	213.4	210.6	207.8	203.6	200.8	200.8
57.5°	189.5	185.3	182.5	181.1	179.7	176.9	171.3	169.9	164.3	162.9	161.5
60°	158.7	154.4	150.2	147.4	146.0	141.8	136.2	133.4	130.6	126.4	122.1
62.5°	129.2	125.0	119.3	117.9	115.1	110.9	106.7	102.5	99.7	95.5	92.7
65°	103.9	99.7	95.5	92.7	89.9	85.6	81.4	77.2	74.4	73.0	71.6
67.5°	84.2	78.6	74.4	73.0	70.2	67.4	63.2	61.8	59.0	59.0	59.0
70°	66.0	61.8	57.6	56.2	54.8	51.9	49.1	49.1	49.1	49.1	49.1
72.5°	49.1	46.3	42.1	40.7	39.3	37.9	35.1	36.5	35.1	35.1	35.1
75°	30.9	28.1	25.3	23.9	22.5	21.1	19.7	18.3	16.8	15.4	15.4
77.5°	16.8	14.0	12.6	11.2	11.2	9.8	8.4	8.4	7.0	7.0	7.0
80°	9.8	8.4	7.0	5.6	5.6	4.2	4.2	4.2	4.2	2.8	2.8
82.5°	5.6	4.2	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
85°	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1
2.5°	1072.7	1076.9	1072.7	1076.9	1076.9	1076.9	1076.9	1072.7
5°	1065.6	1068.5	1064.2	1067.0	1068.5	1067.0	1067.0	1062.8
7.5°	1053.0	1055.8	1051.6	1055.8	1057.2	1055.8	1054.4	1051.6
10°	1040.4	1041.8	1037.6	1040.4	1043.2	1043.2	1041.8	1037.6
12.5°	1020.7	1024.9	1020.7	1023.5	1026.3	1027.7	1027.7	1023.5
15°	998.3	1005.3	1002.5	1006.7	1010.9	1012.3	1012.3	1010.9
17.5°	975.8	982.8	978.6	985.6	989.8	992.6	994.0	991.2
20°	943.5	951.9	949.1	954.7	960.3	964.6	964.6	960.3
22.5°	901.4	912.6	911.2	915.4	922.4	923.8	926.6	923.8
25°	855.0	863.5	862.1	866.3	874.7	874.7	876.1	876.1
27.5°	801.7	810.1	808.7	811.5	817.1	818.5	819.9	817.1
30°	744.1	748.3	748.3	752.6	756.8	758.2	758.2	754.0
32.5°	680.9	686.6	689.4	688.0	692.2	695.0	693.6	693.6
35°	623.4	624.8	626.2	627.6	629.0	631.8	629.0	627.6
37.5°	561.6	565.8	563.0	565.8	568.6	567.2	565.8	565.8
40°	505.4	506.8	504.0	506.8	508.3	508.3	508.3	505.4
42.5°	449.3	452.1	449.3	452.1	452.1	452.1	452.1	450.7
45°	393.1	395.9	395.9	397.3	397.3	395.9	395.9	395.9
47.5°	341.2	344.0	341.2	344.0	345.4	342.6	342.6	342.6
50°	292.0	290.6	290.6	292.0	292.0	292.0	292.0	290.6
52.5°	241.5	242.9	242.9	242.9	244.3	242.9	244.3	244.3
55°	198.0	198.0	198.0	199.4	198.0	198.0	199.4	200.8
57.5°	158.7	157.2	155.8	155.8	157.2	155.8	155.8	155.8
60°	122.1	120.7	119.3	119.3	119.3	119.3	119.3	117.9
62.5°	91.3	91.3	91.3	92.7	92.7	92.7	92.7	94.1
65°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	74.4
67.5°	59.0	59.0	59.0	60.4	60.4	60.4	60.4	60.4
70°	49.1	49.1	50.5	49.1	50.5	50.5	50.5	50.5
72.5°	33.7	33.7	33.7	33.7	33.7	32.3	33.7	32.3
75°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	12.6
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
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)