

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: P252363

Luminaire Tested: **LD6B20D010 EU6B10208030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252363
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 EU6B10208030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1843.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

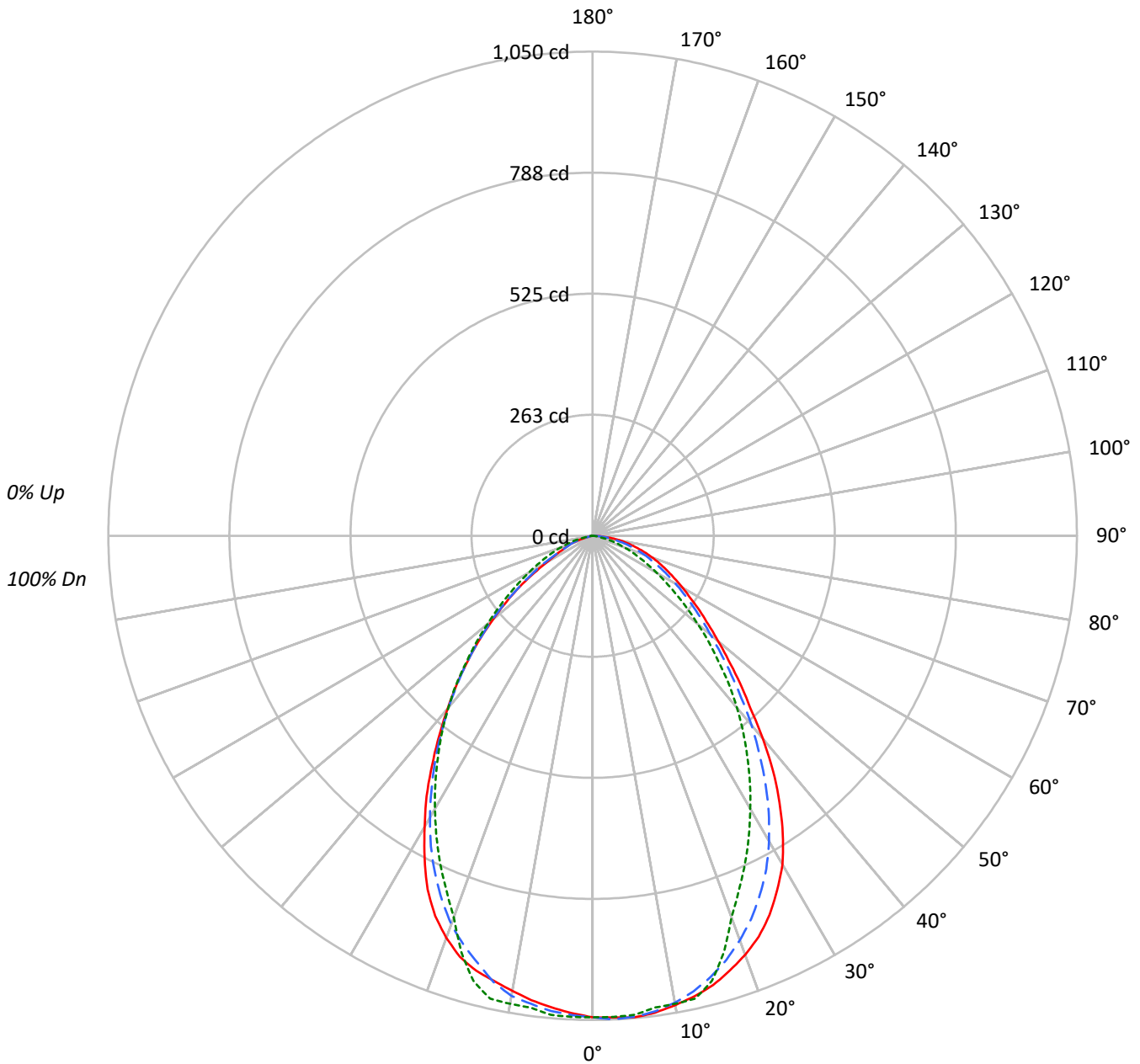
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	68131	68131	68131
5°	68653	68299	67232
10°	68460	68281	66393
15°	68150	67508	65955
20°	67137	61110	64401
25°	65312	56328	60921
30°	62014	51490	54865
35°	56277	46552	48280
40°	48859	41467	41578
45°	41667	35660	35282
50°	36062	30144	28490
55°	32235	25149	22055
60°	29371	20877	14862
65°	27432	17166	11099
70°	26133	13963	9309
75°	24602	9906	3075
80°	23444	5110	1014
85°	19313	3069	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	5.4
10°-20°	275.8	15.0
20°-30°	380.7	20.7
30°-40°	387.4	21.0
40°-50°	311.3	16.9
50°-60°	207.0	11.2
60°-70°	118.0	6.4
70°-80°	53.0	2.9
80°-90°	11.2	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°	755.1	41.0
0°-40°	1142.5	62.0
0°-60°	1660.9	90.1
0°-90°	1843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1843.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1044	1044	1044	1044	1044	
5°	1048	1047	1043	1035	1027	100
15°	1009	990	1000	960	976	284
25°	907	858	782	808	846	416
35°	707	652	584	595	606	439
45°	452	424	386	382	382	350
55°	283	264	221	197	194	255
65°	178	159	111	72	72	177
75°	98	81	39	16	12	104
85°	26	18	4	1	0	31
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°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1045.6	1051.0	1049.7	1048.3	1049.7	1048.3	1045.6	1045.6	1042.9	1042.9	1049.7
5°	1048.3	1051.0	1049.7	1048.3	1048.3	1049.7	1044.3	1044.3	1041.5	1040.2	1047.0
7.5°	1042.9	1047.0	1044.3	1044.3	1042.9	1044.3	1038.8	1038.8	1034.8	1033.4	1040.2
10°	1033.4	1038.8	1036.1	1036.1	1036.1	1033.4	1030.7	1029.3	1025.3	1023.9	1028.0
12.5°	1022.6	1026.6	1025.3	1022.6	1022.6	1022.6	1017.1	1015.8	1010.4	1007.6	1011.7
15°	1009.0	1011.7	1010.4	1009.0	1006.3	1006.3	1000.9	998.1	992.7	987.3	990.0
17.5°	988.7	992.7	990.0	988.7	984.6	984.6	979.2	976.5	968.3	962.9	964.2
20°	967.0	968.3	967.0	964.2	960.2	958.8	953.4	948.0	941.2	934.4	933.1
22.5°	941.2	942.5	938.5	935.8	931.7	930.3	923.6	919.5	908.6	900.5	899.1
25°	907.3	908.6	908.6	901.9	899.1	896.4	889.7	882.9	873.4	862.5	858.5
27.5°	866.6	870.7	868.0	861.2	855.8	854.4	847.6	842.2	830.0	820.5	815.1
30°	823.2	821.8	820.5	816.4	808.3	806.9	800.1	793.4	783.9	771.7	764.9
32.5°	767.6	767.6	766.2	762.2	754.0	751.3	745.9	737.8	726.9	717.4	710.6
35°	706.6	707.9	706.6	698.4	693.0	690.3	687.6	678.1	668.6	657.7	652.3
37.5°	642.8	638.8	640.1	633.3	626.6	629.3	621.1	617.1	606.2	598.1	592.7
40°	573.7	576.4	571.0	568.2	564.2	560.1	560.1	553.3	547.9	538.4	535.7
42.5°	505.9	509.9	508.6	505.9	500.4	501.8	495.0	492.3	485.5	481.4	477.4
45°	451.6	451.6	451.6	448.9	447.5	444.8	440.8	436.7	432.6	427.2	424.5
47.5°	398.7	398.7	400.1	397.4	394.6	393.3	390.6	390.6	383.8	378.4	375.7
50°	355.3	355.3	355.3	352.6	349.9	349.9	347.2	344.5	340.4	336.3	333.6
52.5°	316.0	316.0	316.0	313.3	311.9	310.6	309.2	307.9	302.4	299.7	297.0
55°	283.4	282.1	282.1	280.7	278.0	278.0	276.7	273.9	269.9	265.8	264.5
57.5°	250.9	252.2	250.9	250.9	248.2	248.2	245.5	244.1	240.0	237.3	234.6
60°	225.1	225.1	225.1	223.8	221.1	222.4	219.7	218.3	214.3	210.2	207.5
62.5°	199.4	200.7	200.7	199.4	196.6	196.6	195.3	193.9	189.9	185.8	181.7
65°	177.7	177.7	177.7	176.3	174.9	174.9	173.6	172.2	168.2	162.7	158.7
67.5°	157.3	156.0	156.0	156.0	154.6	153.2	151.9	150.5	146.5	142.4	137.0
70°	137.0	137.0	137.0	135.6	132.9	134.3	132.9	131.5	127.5	123.4	119.3
72.5°	118.0	118.0	116.6	115.3	115.3	113.9	113.9	112.6	108.5	103.1	99.0
75°	97.6	97.6	97.6	97.6	94.9	96.3	93.6	92.2	89.5	85.4	81.4
77.5°	80.0	80.0	80.0	78.7	77.3	77.3	75.9	74.6	70.5	67.8	62.4
80°	62.4	62.4	62.4	62.4	61.0	59.7	58.3	57.0	54.2	50.2	46.1
82.5°	46.1	46.1	44.8	44.8	44.8	43.4	42.0	40.7	38.0	35.3	32.5
85°	25.8	27.1	27.1	24.4	25.8	24.4	24.4	21.7	21.7	19.0	17.6
87.5°	9.5	8.1	8.1	8.1	8.1	8.1	8.1	6.8	6.8	6.8	5.4
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1044.3	1042.9	1048.3	1048.3	1040.2	1044.3	1045.6	1042.9	1042.9	1044.3	1040.2
5°	1041.5	1038.8	1044.3	1045.6	1037.5	1041.5	1042.9	1040.2	1041.5	1042.9	1037.5
7.5°	1032.1	1032.1	1036.1	1037.5	1029.3	1033.4	1033.4	1030.7	1032.1	1032.1	1028.0
10°	1022.6	1018.5	1022.6	1022.6	1015.8	1017.1	1019.8	1018.5	1023.9	1030.7	1030.7
12.5°	1004.9	1000.9	1007.6	1007.6	1003.6	1009.0	1015.8	1019.8	1025.3	1028.0	1019.8
15°	983.2	984.6	996.8	1006.3	1002.2	1010.4	1017.1	1014.4	1007.6	999.5	987.3
17.5°	954.8	950.7	961.5	967.0	961.5	964.2	969.7	964.2	953.4	946.6	930.3
20°	922.2	911.4	911.4	908.6	899.1	899.1	897.8	888.3	884.2	880.2	873.4
22.5°	885.6	873.4	869.3	861.2	853.0	851.7	847.6	838.1	832.7	830.0	821.8
25°	843.5	832.7	825.9	817.8	805.6	802.9	798.8	789.3	786.6	782.5	775.7
27.5°	800.1	786.6	777.1	769.0	758.1	756.7	748.6	741.8	736.4	733.7	728.3
30°	750.0	735.0	728.3	717.4	709.3	706.6	699.8	690.3	686.2	683.5	679.4
32.5°	694.4	682.2	675.4	665.9	655.0	656.4	648.3	640.1	637.4	634.7	630.6
35°	640.1	627.9	619.8	611.6	604.9	602.1	596.7	589.9	585.9	584.5	581.8
37.5°	580.4	571.0	564.2	556.0	550.6	547.9	545.2	538.4	535.7	535.7	530.3
40°	522.1	514.0	508.6	504.5	497.7	496.4	493.6	489.6	488.2	486.9	482.8
42.5°	469.2	458.4	454.3	451.6	447.5	444.8	443.5	440.8	439.4	438.0	434.0
45°	419.1	409.6	405.5	402.8	398.7	397.4	396.0	391.9	389.2	386.5	385.2
47.5°	370.2	363.5	362.1	355.3	352.6	349.9	347.2	344.5	343.1	341.8	336.3
50°	328.2	324.1	317.3	313.3	310.6	309.2	303.8	299.7	298.4	297.0	292.9
52.5°	290.2	284.8	280.7	273.9	272.6	269.9	267.2	261.7	259.0	257.7	253.6
55°	256.3	252.2	246.8	241.4	237.3	236.0	231.9	226.5	223.8	221.1	218.3
57.5°	227.8	221.1	215.6	210.2	207.5	203.4	199.4	196.6	192.6	188.5	184.4
60°	200.7	195.3	188.5	183.1	180.4	177.7	172.2	168.2	164.1	160.0	156.0
62.5°	174.9	169.5	162.7	157.3	154.6	151.9	146.5	142.4	138.3	134.3	128.8
65°	151.9	146.5	141.0	135.6	132.9	130.2	124.8	119.3	115.3	111.2	105.8
67.5°	132.9	126.1	120.7	115.3	112.6	109.9	104.4	100.4	94.9	90.9	85.4
70°	112.6	107.1	103.1	97.6	94.9	92.2	86.8	81.4	77.3	73.2	67.8
72.5°	94.9	88.2	84.1	78.7	75.9	74.6	69.2	65.1	61.0	55.6	51.5
75°	75.9	70.5	65.1	61.0	58.3	57.0	51.5	47.5	43.4	39.3	35.3
77.5°	58.3	54.2	48.8	44.8	42.0	40.7	35.3	31.2	27.1	24.4	20.3
80°	43.4	38.0	35.3	31.2	29.8	27.1	24.4	20.3	17.6	13.6	10.8
82.5°	29.8	25.8	23.1	20.3	19.0	17.6	14.9	12.2	9.5	8.1	6.8
85°	16.3	13.6	12.2	10.8	9.5	9.5	8.1	6.8	5.4	4.1	2.7
87.5°	5.4	4.1	4.1	4.1	4.1	2.7	2.7	2.7	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°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1042.9	1042.9	1042.9	1041.5	1041.5	1041.5	1040.2	1045.6	1040.2	1038.8	1042.9
5°	1041.5	1038.8	1038.8	1038.8	1038.8	1037.5	1036.1	1038.8	1034.8	1033.4	1033.4
7.5°	1033.4	1032.1	1032.1	1030.7	1029.3	1028.0	1026.6	1028.0	1023.9	1022.6	1022.6
10°	1034.8	1032.1	1032.1	1028.0	1025.3	1021.2	1017.1	1018.5	1013.1	1009.0	1009.0
12.5°	1018.5	1011.7	1007.6	1003.6	1000.9	999.5	994.1	996.8	991.4	990.0	990.0
15°	981.9	973.7	967.0	964.2	964.2	961.5	957.5	962.9	960.2	961.5	968.3
17.5°	924.9	920.8	916.8	915.4	916.8	919.5	922.2	930.3	930.3	934.4	941.2
20°	874.7	872.0	874.7	874.7	876.1	881.5	886.9	893.7	896.4	900.5	910.0
22.5°	825.9	825.9	828.6	832.7	831.3	840.8	842.2	854.4	854.4	862.5	870.7
25°	778.4	778.4	781.2	782.5	785.2	790.7	796.1	805.6	808.3	816.4	823.2
27.5°	732.3	731.0	731.0	732.3	735.0	741.8	744.5	755.4	759.5	764.9	771.7
30°	680.8	679.4	682.2	684.9	683.5	690.3	694.4	702.5	705.2	710.6	716.1
32.5°	632.0	632.0	632.0	634.7	634.7	640.1	640.1	649.6	649.6	653.7	659.1
35°	581.8	581.8	583.2	584.5	585.9	587.2	588.6	594.0	595.4	596.7	599.4
37.5°	534.3	533.0	534.3	534.3	531.6	537.0	537.0	542.5	538.4	542.5	543.8
40°	485.5	485.5	484.2	484.2	484.2	486.9	484.2	488.2	485.5	488.2	486.9
42.5°	435.3	435.3	432.6	435.3	434.0	434.0	434.0	436.7	432.6	435.3	436.7
45°	385.2	383.8	383.8	382.4	382.4	382.4	383.8	383.8	382.4	385.2	385.2
47.5°	336.3	335.0	335.0	335.0	335.0	336.3	332.3	335.0	332.3	332.3	332.3
50°	294.3	292.9	291.6	290.2	288.9	288.9	287.5	287.5	284.8	283.4	282.1
52.5°	253.6	252.2	249.5	249.5	248.2	246.8	242.8	242.8	238.7	237.3	237.3
55°	217.0	212.9	211.6	208.9	208.9	206.1	203.4	200.7	196.6	193.9	193.9
57.5°	183.1	179.0	176.3	174.9	173.6	170.9	165.5	164.1	158.7	157.3	156.0
60°	153.2	149.2	145.1	142.4	141.0	137.0	131.5	128.8	126.1	122.1	118.0
62.5°	124.8	120.7	115.3	113.9	111.2	107.1	103.1	99.0	96.3	92.2	89.5
65°	100.4	96.3	92.2	89.5	86.8	82.7	78.7	74.6	71.9	70.5	69.2
67.5°	81.4	75.9	71.9	70.5	67.8	65.1	61.0	59.7	57.0	57.0	57.0
70°	63.7	59.7	55.6	54.2	52.9	50.2	47.5	47.5	47.5	47.5	47.5
72.5°	47.5	44.8	40.7	39.3	38.0	36.6	33.9	35.3	33.9	33.9	33.9
75°	29.8	27.1	24.4	23.1	21.7	20.3	19.0	17.6	16.3	14.9	14.9
77.5°	16.3	13.6	12.2	10.8	10.8	9.5	8.1	8.1	6.8	6.8	6.8
80°	9.5	8.1	6.8	5.4	5.4	4.1	4.1	4.1	4.1	2.7	2.7
82.5°	5.4	4.1	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4
85°	2.7	2.7	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°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1036.1	1040.2	1036.1	1040.2	1040.2	1040.2	1040.2	1036.1
5°	1029.3	1032.1	1028.0	1030.7	1032.1	1030.7	1030.7	1026.6
7.5°	1017.1	1019.8	1015.8	1019.8	1021.2	1019.8	1018.5	1015.8
10°	1004.9	1006.3	1002.2	1004.9	1007.6	1007.6	1006.3	1002.2
12.5°	985.9	990.0	985.9	988.7	991.4	992.7	992.7	988.7
15°	964.2	971.0	968.3	972.4	976.5	977.8	977.8	976.5
17.5°	942.5	949.3	945.3	952.0	956.1	958.8	960.2	957.5
20°	911.4	919.5	916.8	922.2	927.6	931.7	931.7	927.6
22.5°	870.7	881.5	880.2	884.2	891.0	892.4	895.1	892.4
25°	825.9	834.1	832.7	836.8	844.9	844.9	846.3	846.3
27.5°	774.4	782.5	781.2	783.9	789.3	790.7	792.0	789.3
30°	718.8	722.8	722.8	726.9	731.0	732.3	732.3	728.3
32.5°	657.7	663.2	665.9	664.5	668.6	671.3	670.0	670.0
35°	602.1	603.5	604.9	606.2	607.6	610.3	607.6	606.2
37.5°	542.5	546.5	543.8	546.5	549.3	547.9	546.5	546.5
40°	488.2	489.6	486.9	489.6	490.9	490.9	490.9	488.2
42.5°	434.0	436.7	434.0	436.7	436.7	436.7	436.7	435.3
45°	379.7	382.4	382.4	383.8	383.8	382.4	382.4	382.4
47.5°	329.6	332.3	329.6	332.3	333.6	330.9	330.9	330.9
50°	282.1	280.7	280.7	282.1	282.1	282.1	282.1	280.7
52.5°	233.3	234.6	234.6	234.6	236.0	234.6	236.0	236.0
55°	191.2	191.2	191.2	192.6	191.2	191.2	192.6	193.9
57.5°	153.2	151.9	150.5	150.5	151.9	150.5	150.5	150.5
60°	118.0	116.6	115.3	115.3	115.3	115.3	115.3	113.9
62.5°	88.2	88.2	88.2	89.5	89.5	89.5	89.5	90.9
65°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	71.9
67.5°	57.0	57.0	57.0	58.3	58.3	58.3	58.3	58.3
70°	47.5	47.5	48.8	47.5	48.8	48.8	48.8	48.8
72.5°	32.5	32.5	32.5	32.5	32.5	31.2	32.5	31.2
75°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	12.2
77.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)