

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: P274429

Luminaire Tested: **LD6B15DE010W2N2765 EU6B1020W2N902765 6LBSW0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-18)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBSW0LI
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, SINGLE WALLWASH WITH SPECULAR FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1374.8 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

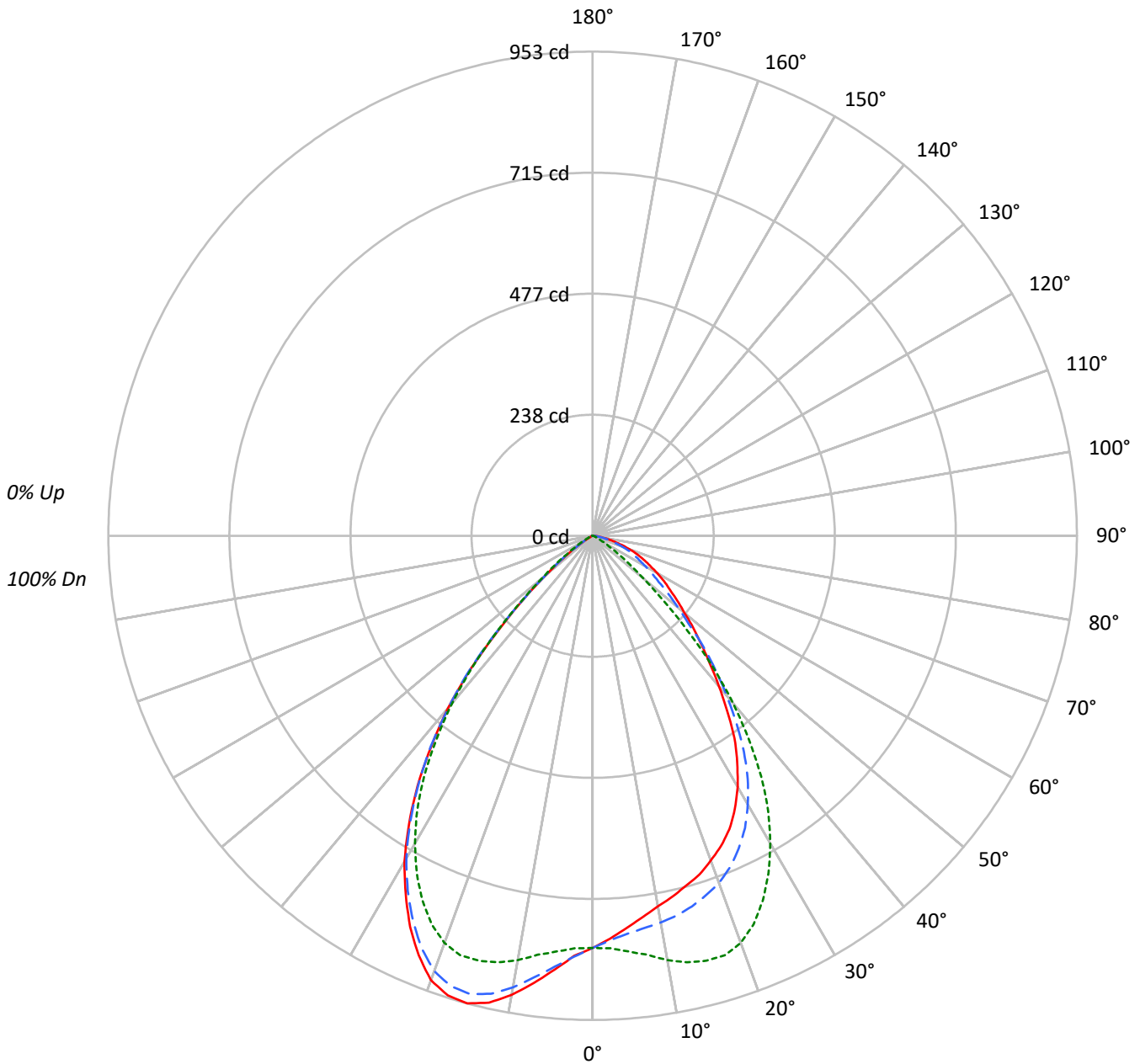
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274429

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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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73																			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66																			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																			
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49																			
8	71	59	52	47	69	59	52	47	58	51	47	57	51	47	55	50	47	45																			
9	67	55	48	44	65	55	48	43	54	48	43	53	47	43	52	47	43	41																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44476	44476	44476
5°	42615	45212	47160
10°	41221	47210	51073
15°	40432	49138	54081
20°	39670	49739	54296
25°	38543	47912	51390
30°	36132	44260	46874
35°	32578	38695	40174
40°	27659	30715	31666
45°	23444	20467	20010
50°	20127	11070	9936
55°	17768	5496	4091
60°	16007	2423	976
65°	14347	1154	389
70°	12294	946	240
75°	9383	635	0
80°	6535	474	0
85°	5598	0	0



TEST NUMBER: P274429

CATALOG NUMBER: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBSW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	5.7
10°-20°	238.1	17.3
20°-30°	348.9	25.4
30°-40°	345.9	25.2
40°-50°	216.9	15.8
50°-60°	88.1	6.4
60°-70°	39.2	2.9
70°-80°	16.2	1.2
80°-90°	2.8	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°	665.8	48.4
0°-40°	1011.6	73.6
0°-60°	1316.6	95.8
0°-90°	1374.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1374.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	811	811	811	811	811	
5°	774	786	822	851	857	73
15°	712	755	866	934	953	201
25°	637	680	792	836	850	291
35°	487	519	578	597	600	301
45°	302	307	264	264	258	235
55°	186	159	58	46	43	168
65°	111	90	9	3	3	110
75°	44	34	3	2	0	49
85°	9	4	0	0	0	10
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°	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3
2.5°	793.6	792.1	792.1	793.6	793.6	793.6	793.6	795.0	795.0	796.5	796.5
5°	774.4	772.9	774.4	777.3	777.3	777.3	778.8	780.3	783.2	783.2	786.2
7.5°	756.7	756.7	759.6	761.1	762.6	762.6	762.6	767.0	770.0	775.9	778.8
10°	740.5	739.0	744.9	746.4	750.8	749.3	750.8	755.2	761.1	765.5	772.9
12.5°	727.2	727.2	731.6	731.6	736.0	739.0	737.5	744.9	749.3	756.7	765.5
15°	712.4	712.4	715.4	718.3	721.3	722.8	724.2	731.6	737.5	744.9	755.2
17.5°	699.2	696.2	699.2	702.1	706.5	706.5	711.0	715.4	724.2	731.6	741.9
20°	680.0	680.0	682.9	684.4	688.8	691.8	693.3	699.2	706.5	715.4	727.2
22.5°	660.8	660.8	663.8	665.2	669.7	671.1	672.6	680.0	685.9	694.7	706.5
25°	637.2	637.2	640.2	641.6	646.1	646.1	650.5	654.9	660.8	671.1	680.0
27.5°	606.2	609.2	609.2	612.1	615.1	616.6	619.5	623.9	629.8	638.7	649.0
30°	570.8	569.4	573.8	575.3	579.7	581.2	585.6	588.5	594.4	603.3	610.7
32.5°	529.5	532.5	534.0	535.4	538.4	539.9	542.8	547.2	553.1	559.0	567.9
35°	486.8	486.8	486.8	488.2	491.2	494.1	495.6	500.0	505.9	513.3	519.2
37.5°	435.1	436.6	439.6	439.6	444.0	445.5	446.9	451.4	457.3	461.7	464.6
40°	386.5	387.9	389.4	389.4	392.4	395.3	393.8	399.7	402.7	407.1	410.1
42.5°	342.2	340.7	345.2	346.6	346.6	349.6	351.1	352.5	354.0	357.0	357.0
45°	302.4	300.9	303.9	303.9	305.3	305.3	306.8	306.8	306.8	309.8	306.8
47.5°	268.5	265.5	267.0	267.0	265.5	267.0	267.0	265.5	264.0	261.1	256.7
50°	236.0	236.0	236.0	234.5	234.5	234.5	233.1	233.1	228.6	225.7	218.3
52.5°	209.5	209.5	209.5	208.0	205.0	206.5	206.5	202.1	199.1	194.7	187.3
55°	185.9	185.9	185.9	184.4	182.9	181.4	180.0	178.5	172.6	169.6	159.3
57.5°	166.7	163.7	163.7	163.7	160.8	160.8	159.3	154.9	150.5	146.0	138.7
60°	146.0	146.0	146.0	143.1	143.1	141.6	140.1	135.7	132.8	126.9	119.5
62.5°	126.9	126.9	125.4	125.4	123.9	122.4	121.0	118.0	115.1	110.6	103.3
65°	110.6	110.6	109.2	109.2	107.7	106.2	106.2	103.3	100.3	95.9	90.0
67.5°	94.4	94.4	92.9	92.9	91.5	90.0	90.0	87.0	84.1	81.1	76.7
70°	76.7	75.2	75.2	75.2	73.8	72.3	72.3	70.8	67.9	64.9	62.0
72.5°	59.0	59.0	59.0	57.5	57.5	56.1	56.1	54.6	53.1	50.2	47.2
75°	44.3	44.3	44.3	42.8	42.8	41.3	41.3	39.8	38.4	36.9	33.9
77.5°	32.5	31.0	31.0	29.5	29.5	29.5	29.5	26.6	26.6	25.1	23.6
80°	20.7	20.7	20.7	20.7	19.2	19.2	19.2	17.7	17.7	16.2	14.8
82.5°	13.3	13.3	13.3	13.3	13.3	11.8	11.8	11.8	10.3	10.3	8.9
85°	8.9	8.9	7.4	7.4	7.4	7.4	7.4	5.9	5.9	5.9	4.4
87.5°	4.4	4.4	4.4	4.4	3.0	3.0	3.0	3.0	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P274429

CATALOG NUMBER: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBSW0LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3
2.5°	799.5	799.5	805.4	803.9	805.4	803.9	808.3	809.8	811.3	812.7	814.2
5°	792.1	793.6	798.0	800.9	802.4	802.4	809.8	812.7	817.2	821.6	824.5
7.5°	786.2	790.6	796.5	802.4	805.4	805.4	815.7	820.1	827.5	831.9	837.8
10°	781.8	789.1	796.5	805.4	812.7	812.7	826.0	833.4	840.8	848.1	857.0
12.5°	772.9	784.7	793.6	805.4	812.7	812.7	830.4	840.8	849.6	859.9	871.7
15°	767.0	775.9	790.6	802.4	809.8	812.7	831.9	843.7	854.0	865.8	877.6
17.5°	755.2	765.5	780.3	795.0	803.9	808.3	826.0	837.8	852.6	865.8	873.2
20°	739.0	750.8	765.5	781.8	789.1	793.6	814.2	824.5	839.3	852.6	861.4
22.5°	718.3	730.1	744.9	759.6	767.0	774.4	792.1	803.9	815.7	827.5	834.9
25°	690.3	705.1	716.9	731.6	739.0	744.9	759.6	771.4	781.8	792.1	802.4
27.5°	656.4	669.7	682.9	696.2	702.1	706.5	719.8	731.6	741.9	749.3	758.2
30°	621.0	629.8	643.1	654.9	659.3	662.3	672.6	680.0	691.8	699.2	703.6
32.5°	575.3	585.6	593.0	603.3	607.7	610.7	621.0	626.9	635.7	643.1	649.0
35°	528.1	529.5	538.4	547.2	547.2	551.7	560.5	566.4	570.8	578.2	582.6
37.5°	469.1	472.0	480.9	485.3	485.3	483.8	492.7	495.6	503.0	504.5	508.9
40°	413.0	416.0	417.4	418.9	418.9	418.9	421.9	420.4	427.8	429.2	430.7
42.5°	357.0	355.5	357.0	351.1	351.1	348.1	345.2	345.2	345.2	349.6	351.1
45°	302.4	298.0	289.1	281.7	283.2	277.3	269.9	267.0	264.0	264.0	264.0
47.5°	250.8	241.9	231.6	221.3	215.4	209.5	200.6	193.2	188.8	187.3	185.9
50°	209.5	200.6	187.3	172.6	166.7	159.3	149.0	138.7	134.2	129.8	128.3
52.5°	177.0	165.2	150.5	134.2	126.9	119.5	109.2	100.3	92.9	88.5	85.6
55°	149.0	137.2	121.0	104.7	98.8	90.0	78.2	69.3	62.0	57.5	53.1
57.5°	129.8	116.5	100.3	84.1	76.7	69.3	56.1	47.2	39.8	35.4	32.5
60°	110.6	98.8	84.1	67.9	60.5	53.1	41.3	32.5	25.1	22.1	17.7
62.5°	94.4	84.1	70.8	54.6	47.2	41.3	31.0	22.1	16.2	13.3	10.3
65°	82.6	72.3	60.5	47.2	39.8	33.9	25.1	17.7	13.3	8.9	7.4
67.5°	69.3	60.5	50.2	38.4	33.9	28.0	20.7	14.8	10.3	7.4	5.9
70°	56.1	48.7	39.8	31.0	26.6	22.1	16.2	11.8	7.4	5.9	4.4
72.5°	41.3	36.9	29.5	23.6	19.2	16.2	11.8	8.9	5.9	4.4	3.0
75°	29.5	26.6	20.7	16.2	13.3	11.8	8.9	5.9	4.4	3.0	1.5
77.5°	20.7	17.7	14.8	11.8	8.9	8.9	5.9	4.4	3.0	1.5	1.5
80°	13.3	11.8	8.9	7.4	5.9	4.4	3.0	1.5	1.5	1.5	0.0
82.5°	7.4	5.9	5.9	4.4	3.0	3.0	1.5	1.5	0.0	0.0	0.0
85°	4.4	3.0	3.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	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



TEST NUMBER: P274429

CATALOG NUMBER: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBSW0LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3
2.5°	815.7	817.2	818.6	820.1	821.6	821.6	821.6	826.0	829.0	829.0	830.4
5°	827.5	831.9	831.9	836.3	837.8	839.3	840.8	846.7	851.1	848.1	852.6
7.5°	842.2	852.6	852.6	857.0	859.9	861.4	867.3	873.2	876.2	877.6	879.1
10°	862.9	871.7	876.2	877.6	882.1	885.0	892.4	898.3	902.7	905.7	908.6
12.5°	877.6	886.5	890.9	898.3	901.2	905.7	911.6	917.5	923.4	927.8	932.2
15°	886.5	895.3	901.2	905.7	910.1	914.5	920.4	929.3	933.7	936.6	941.1
17.5°	882.1	892.4	896.8	904.2	908.6	911.6	917.5	923.4	929.3	930.7	933.7
20°	867.3	876.2	883.5	886.5	890.9	895.3	899.8	905.7	911.6	911.6	917.5
22.5°	843.7	852.6	857.0	858.5	861.4	868.8	868.8	876.2	879.1	880.6	885.0
25°	806.8	814.2	818.6	821.6	824.5	826.0	830.4	836.3	836.3	839.3	840.8
27.5°	764.1	768.5	772.9	775.9	778.8	778.8	781.8	787.7	787.7	789.1	790.6
30°	712.4	718.3	719.8	722.8	721.3	724.2	728.7	731.6	733.1	731.6	736.0
32.5°	652.0	656.4	659.3	662.3	662.3	663.8	663.8	666.7	668.2	669.7	672.6
35°	584.1	588.5	590.0	591.5	595.9	593.0	594.4	597.4	597.4	600.3	597.4
37.5°	510.4	516.3	520.7	516.3	517.7	520.7	520.7	520.7	523.6	522.2	522.2
40°	435.1	435.1	436.6	439.6	438.1	442.5	441.0	442.5	441.0	442.5	444.0
42.5°	354.0	349.6	355.5	352.5	355.5	355.5	355.5	357.0	358.4	357.0	354.0
45°	261.1	264.0	259.6	259.6	261.1	262.6	262.6	262.6	264.0	261.1	262.6
47.5°	184.4	182.9	181.4	181.4	182.9	181.4	181.4	184.4	181.4	181.4	180.0
50°	128.3	125.4	125.4	122.4	123.9	122.4	123.9	123.9	121.0	122.4	121.0
52.5°	82.6	82.6	79.7	79.7	79.7	79.7	78.2	78.2	78.2	75.2	75.2
55°	51.6	50.2	47.2	47.2	47.2	45.7	44.3	44.3	45.7	44.3	44.3
57.5°	29.5	28.0	25.1	25.1	25.1	23.6	23.6	22.1	22.1	22.1	22.1
60°	16.2	13.3	11.8	11.8	11.8	10.3	10.3	10.3	8.9	8.9	8.9
62.5°	7.4	5.9	5.9	4.4	4.4	4.4	4.4	4.4	3.0	3.0	3.0
65°	5.9	4.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
67.5°	4.4	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	3.0	1.5
70°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1.5	1.5	1.5
77.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



TEST NUMBER: P274429

CATALOG NUMBER: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3
2.5°	831.9	833.4	830.4	831.9	831.9	833.4	830.4	827.5
5°	857.0	857.0	855.5	857.0	855.5	857.0	858.5	857.0
7.5°	885.0	886.5	888.0	886.5	886.5	888.0	889.4	888.0
10°	913.0	914.5	917.5	916.0	918.9	920.4	917.5	917.5
12.5°	933.7	936.6	939.6	938.1	941.1	942.5	942.5	941.1
15°	944.0	949.9	949.9	948.4	951.4	954.3	954.3	952.9
17.5°	939.6	944.0	944.0	945.5	947.0	949.9	948.4	948.4
20°	921.9	926.3	924.8	924.8	926.3	930.7	929.3	930.7
22.5°	889.4	890.9	892.4	892.4	892.4	896.8	895.3	893.9
25°	846.7	849.6	849.6	849.6	851.1	851.1	851.1	849.6
27.5°	796.5	798.0	799.5	796.5	796.5	799.5	799.5	796.5
30°	740.5	739.0	740.5	739.0	740.5	740.5	740.5	740.5
32.5°	675.6	674.1	675.6	672.6	674.1	674.1	675.6	672.6
35°	600.3	600.3	604.8	601.8	601.8	600.3	598.9	600.3
37.5°	526.6	525.1	525.1	522.2	522.2	526.6	523.6	520.7
40°	442.5	441.0	442.5	441.0	441.0	442.5	442.5	442.5
42.5°	359.9	358.4	359.9	357.0	357.0	358.4	355.5	354.0
45°	262.6	261.1	264.0	264.0	262.6	262.6	261.1	258.1
47.5°	180.0	180.0	181.4	180.0	180.0	181.4	180.0	181.4
50°	119.5	119.5	121.0	119.5	119.5	119.5	118.0	116.5
52.5°	76.7	75.2	75.2	75.2	75.2	75.2	73.8	73.8
55°	42.8	42.8	42.8	42.8	42.8	41.3	42.8	42.8
57.5°	20.7	20.7	20.7	20.7	20.7	20.7	19.2	20.7
60°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
62.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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



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













(END OF REPORT)