

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: P274435

Luminaire Tested: **LD6B15DE010W2N2765 EU6B1020W2N902765 6LBLWWOLI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274435  
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: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBLWW0LI  
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, LENSED WALLWASH WITH SPECULAR FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1205.6 lumens  
Efficiency: N/A  
Efficacy: 54.8 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

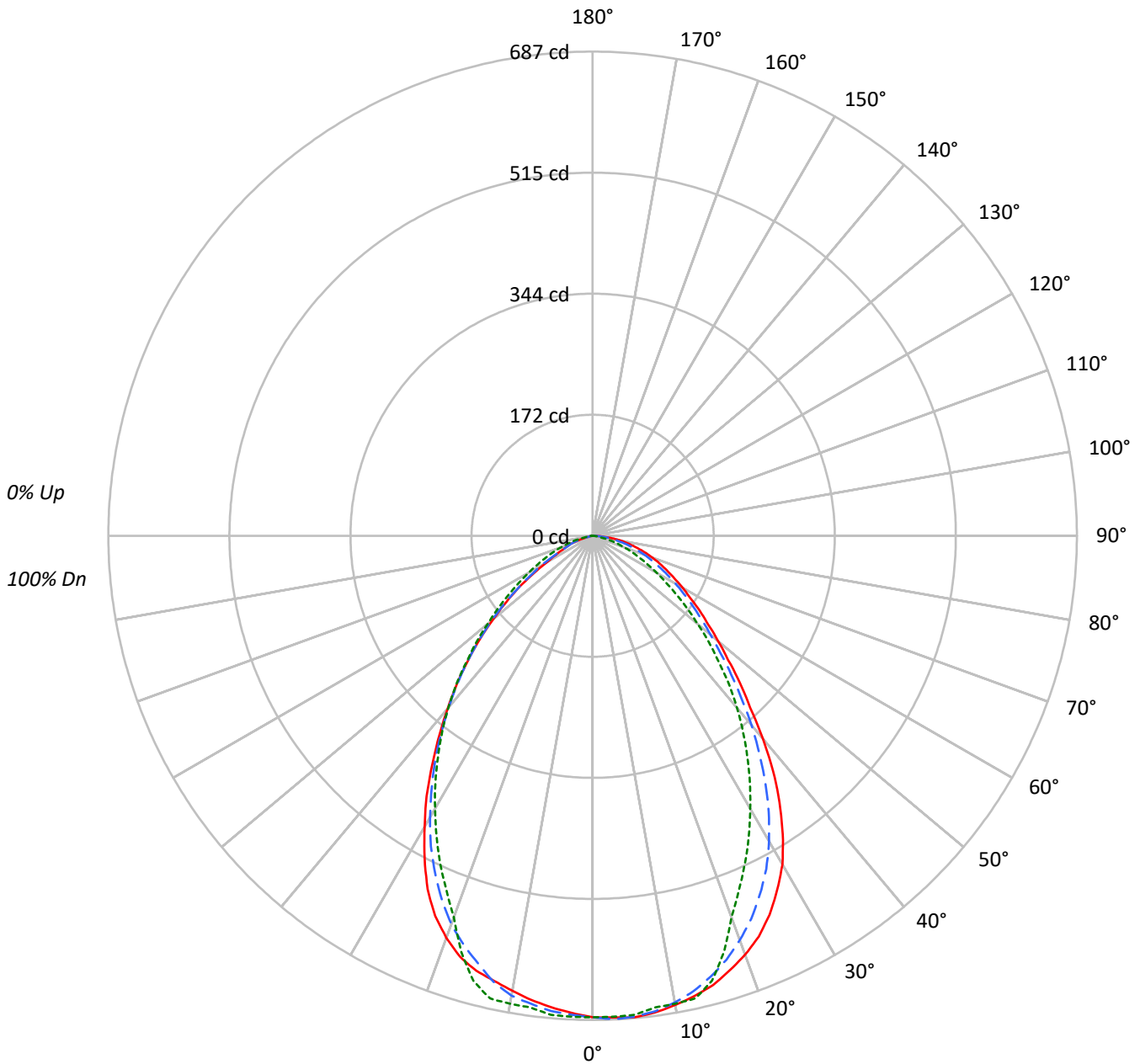
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	44566	44566	44566
5°	44913	44677	43983
10°	44783	44664	43432
15°	44578	44159	43139
20°	43913	39976	42129
25°	42723	36849	39851
30°	40567	33682	35889
35°	36812	30456	31587
40°	31963	27125	27202
45°	27255	23324	23084
50°	23588	19721	18635
55°	21088	16447	14434
60°	19220	13661	9721
65°	17938	11223	7256
70°	17091	9137	6085
75°	16107	6478	2017
80°	15329	3344	676
85°	12651	2021	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.5	5.4
10°-20°	180.4	15.0
20°-30°	249.0	20.7
30°-40°	253.4	21.0
40°-50°	203.7	16.9
50°-60°	135.4	11.2
60°-70°	77.2	6.4
70°-80°	34.7	2.9
80°-90°	7.3	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°	494.0	41.0
0°-40°	747.4	62.0
0°-60°	1086.5	90.1
0°-90°	1205.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	683	683	683	683	683	
5°	686	685	682	677	672	65
15°	660	648	654	628	639	186
25°	594	562	512	529	554	272
35°	462	427	382	390	397	287
45°	295	278	253	250	250	229
55°	185	173	145	129	127	167
65°	116	104	73	47	47	116
75°	64	53	26	11	8	68
85°	17	12	3	1	0	20
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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	684.0	687.5	686.7	685.8	686.7	685.8	684.0	684.0	682.2	682.2	686.7
5°	685.8	687.5	686.7	685.8	685.8	686.7	683.1	683.1	681.3	680.4	684.9
7.5°	682.2	684.9	683.1	683.1	682.2	683.1	679.6	679.6	676.9	676.0	680.4
10°	676.0	679.6	677.8	677.8	677.8	676.0	674.2	673.3	670.7	669.8	672.5
12.5°	668.9	671.6	670.7	668.9	668.9	668.9	665.4	664.5	660.9	659.1	661.8
15°	660.0	661.8	660.9	660.0	658.3	658.3	654.7	652.9	649.4	645.8	647.6
17.5°	646.7	649.4	647.6	646.7	644.1	644.1	640.5	638.7	633.4	629.9	630.8
20°	632.5	633.4	632.5	630.8	628.1	627.2	623.7	620.1	615.7	611.2	610.4
22.5°	615.7	616.6	613.9	612.1	609.5	608.6	604.1	601.5	594.4	589.1	588.2
25°	593.5	594.4	594.4	590.0	588.2	586.4	582.0	577.5	571.3	564.2	561.6
27.5°	566.9	569.5	567.8	563.3	559.8	558.9	554.5	550.9	542.9	536.7	533.2
30°	538.5	537.6	536.7	534.1	528.7	527.9	523.4	519.0	512.8	504.8	500.4
32.5°	502.1	502.1	501.2	498.6	493.3	491.5	487.9	482.6	475.5	469.3	464.9
35°	462.2	463.1	462.2	456.9	453.3	451.6	449.8	443.6	437.4	430.3	426.7
37.5°	420.5	417.8	418.7	414.3	409.9	411.6	406.3	403.7	396.6	391.2	387.7
40°	375.3	377.0	373.5	371.7	369.1	366.4	366.4	362.0	358.4	352.2	350.4
42.5°	330.9	333.6	332.7	330.9	327.4	328.2	323.8	322.0	317.6	314.9	312.3
45°	295.4	295.4	295.4	293.6	292.8	291.0	288.3	285.7	283.0	279.5	277.7
47.5°	260.8	260.8	261.7	259.9	258.2	257.3	255.5	255.5	251.1	247.5	245.7
50°	232.4	232.4	232.4	230.7	228.9	228.9	227.1	225.3	222.7	220.0	218.2
52.5°	206.7	206.7	206.7	204.9	204.0	203.2	202.3	201.4	197.8	196.1	194.3
55°	185.4	184.5	184.5	183.6	181.9	181.9	181.0	179.2	176.5	173.9	173.0
57.5°	164.1	165.0	164.1	164.1	162.3	162.3	160.6	159.7	157.0	155.3	153.5
60°	147.3	147.3	147.3	146.4	144.6	145.5	143.7	142.8	140.2	137.5	135.7
62.5°	130.4	131.3	131.3	130.4	128.6	128.6	127.7	126.9	124.2	121.5	118.9
65°	116.2	116.2	116.2	115.3	114.4	114.4	113.6	112.7	110.0	106.5	103.8
67.5°	102.9	102.0	102.0	102.0	101.1	100.2	99.4	98.5	95.8	93.2	89.6
70°	89.6	89.6	89.6	88.7	86.9	87.8	86.9	86.1	83.4	80.7	78.1
72.5°	77.2	77.2	76.3	75.4	75.4	74.5	74.5	73.6	71.0	67.4	64.8
75°	63.9	63.9	63.9	63.9	62.1	63.0	61.2	60.3	58.6	55.9	53.2
77.5°	52.3	52.3	52.3	51.5	50.6	50.6	49.7	48.8	46.1	44.4	40.8
80°	40.8	40.8	40.8	40.8	39.9	39.0	38.1	37.3	35.5	32.8	30.2
82.5°	30.2	30.2	29.3	29.3	29.3	28.4	27.5	26.6	24.8	23.1	21.3
85°	16.9	17.7	17.7	16.0	16.9	16.0	16.0	14.2	14.2	12.4	11.5
87.5°	6.2	5.3	5.3	5.3	5.3	5.3	5.3	4.4	4.4	4.4	3.5
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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	683.1	682.2	685.8	685.8	680.4	683.1	684.0	682.2	682.2	683.1	680.4
5°	681.3	679.6	683.1	684.0	678.7	681.3	682.2	680.4	681.3	682.2	678.7
7.5°	675.1	675.1	677.8	678.7	673.3	676.0	676.0	674.2	675.1	675.1	672.5
10°	668.9	666.2	668.9	668.9	664.5	665.4	667.1	666.2	669.8	674.2	674.2
12.5°	657.4	654.7	659.1	659.1	656.5	660.0	664.5	667.1	670.7	672.5	667.1
15°	643.2	644.1	652.1	658.3	655.6	660.9	665.4	663.6	659.1	653.8	645.8
17.5°	624.6	621.9	629.0	632.5	629.0	630.8	634.3	630.8	623.7	619.2	608.6
20°	603.3	596.2	596.2	594.4	588.2	588.2	587.3	581.1	578.4	575.8	571.3
22.5°	579.3	571.3	568.7	563.3	558.0	557.1	554.5	548.3	544.7	542.9	537.6
25°	551.8	544.7	540.3	534.9	527.0	525.2	522.5	516.3	514.5	511.9	507.4
27.5°	523.4	514.5	508.3	503.0	495.9	495.0	489.7	485.3	481.7	479.9	476.4
30°	490.6	480.8	476.4	469.3	464.0	462.2	457.8	451.6	448.9	447.1	444.5
32.5°	454.2	446.2	441.8	435.6	428.5	429.4	424.1	418.7	417.0	415.2	412.5
35°	418.7	410.7	405.4	400.1	395.7	393.9	390.3	385.9	383.2	382.4	380.6
37.5°	379.7	373.5	369.1	363.7	360.2	358.4	356.6	352.2	350.4	350.4	346.9
40°	341.6	336.2	332.7	330.0	325.6	324.7	322.9	320.3	319.4	318.5	315.8
42.5°	307.0	299.9	297.2	295.4	292.8	291.0	290.1	288.3	287.4	286.5	283.9
45°	274.1	267.9	265.3	263.5	260.8	259.9	259.0	256.4	254.6	252.8	251.9
47.5°	242.2	237.8	236.9	232.4	230.7	228.9	227.1	225.3	224.4	223.6	220.0
50°	214.7	212.0	207.6	204.9	203.2	202.3	198.7	196.1	195.2	194.3	191.6
52.5°	189.8	186.3	183.6	179.2	178.3	176.5	174.8	171.2	169.4	168.6	165.9
55°	167.7	165.0	161.5	157.9	155.3	154.4	151.7	148.2	146.4	144.6	142.8
57.5°	149.0	144.6	141.1	137.5	135.7	133.1	130.4	128.6	126.0	123.3	120.7
60°	131.3	127.7	123.3	119.8	118.0	116.2	112.7	110.0	107.3	104.7	102.0
62.5°	114.4	110.9	106.5	102.9	101.1	99.4	95.8	93.2	90.5	87.8	84.3
65°	99.4	95.8	92.3	88.7	86.9	85.2	81.6	78.1	75.4	72.7	69.2
67.5°	86.9	82.5	79.0	75.4	73.6	71.9	68.3	65.6	62.1	59.4	55.9
70°	73.6	70.1	67.4	63.9	62.1	60.3	56.8	53.2	50.6	47.9	44.4
72.5°	62.1	57.7	55.0	51.5	49.7	48.8	45.2	42.6	39.9	36.4	33.7
75°	49.7	46.1	42.6	39.9	38.1	37.3	33.7	31.1	28.4	25.7	23.1
77.5°	38.1	35.5	31.9	29.3	27.5	26.6	23.1	20.4	17.7	16.0	13.3
80°	28.4	24.8	23.1	20.4	19.5	17.7	16.0	13.3	11.5	8.9	7.1
82.5°	19.5	16.9	15.1	13.3	12.4	11.5	9.8	8.0	6.2	5.3	4.4
85°	10.6	8.9	8.0	7.1	6.2	6.2	5.3	4.4	3.5	2.7	1.8
87.5°	3.5	2.7	2.7	2.7	2.7	1.8	1.8	1.8	0.9	0.9	0.9
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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	682.2	682.2	682.2	681.3	681.3	681.3	680.4	684.0	680.4	679.6	682.2
5°	681.3	679.6	679.6	679.6	679.6	678.7	677.8	679.6	676.9	676.0	676.0
7.5°	676.0	675.1	675.1	674.2	673.3	672.5	671.6	672.5	669.8	668.9	668.9
10°	676.9	675.1	675.1	672.5	670.7	668.0	665.4	666.2	662.7	660.0	660.0
12.5°	666.2	661.8	659.1	656.5	654.7	653.8	650.3	652.1	648.5	647.6	647.6
15°	642.3	637.0	632.5	630.8	630.8	629.0	626.3	629.9	628.1	629.0	633.4
17.5°	605.0	602.4	599.7	598.8	599.7	601.5	603.3	608.6	608.6	611.2	615.7
20°	572.2	570.4	572.2	572.2	573.1	576.6	580.2	584.6	586.4	589.1	595.3
22.5°	540.3	540.3	542.0	544.7	543.8	550.0	550.9	558.9	558.9	564.2	569.5
25°	509.2	509.2	511.0	511.9	513.7	517.2	520.8	527.0	528.7	534.1	538.5
27.5°	479.1	478.2	478.2	479.1	480.8	485.3	487.0	494.1	496.8	500.4	504.8
30°	445.3	444.5	446.2	448.0	447.1	451.6	454.2	459.5	461.3	464.9	468.4
32.5°	413.4	413.4	413.4	415.2	415.2	418.7	418.7	424.9	424.9	427.6	431.2
35°	380.6	380.6	381.5	382.4	383.2	384.1	385.0	388.6	389.5	390.3	392.1
37.5°	349.5	348.6	349.5	349.5	347.8	351.3	351.3	354.9	352.2	354.9	355.7
40°	317.6	317.6	316.7	316.7	316.7	318.5	316.7	319.4	317.6	319.4	318.5
42.5°	284.8	284.8	283.0	284.8	283.9	283.9	283.9	285.7	283.0	284.8	285.7
45°	251.9	251.1	251.1	250.2	250.2	250.2	251.1	251.1	250.2	251.9	251.9
47.5°	220.0	219.1	219.1	219.1	219.1	220.0	217.4	219.1	217.4	217.4	217.4
50°	192.5	191.6	190.7	189.8	189.0	189.0	188.1	188.1	186.3	185.4	184.5
52.5°	165.9	165.0	163.2	163.2	162.3	161.5	158.8	158.8	156.1	155.3	155.3
55°	141.9	139.3	138.4	136.6	136.6	134.8	133.1	131.3	128.6	126.9	126.9
57.5°	119.8	117.1	115.3	114.4	113.6	111.8	108.2	107.3	103.8	102.9	102.0
60°	100.2	97.6	94.9	93.2	92.3	89.6	86.1	84.3	82.5	79.8	77.2
62.5°	81.6	79.0	75.4	74.5	72.7	70.1	67.4	64.8	63.0	60.3	58.6
65°	65.6	63.0	60.3	58.6	56.8	54.1	51.5	48.8	47.0	46.1	45.2
67.5°	53.2	49.7	47.0	46.1	44.4	42.6	39.9	39.0	37.3	37.3	37.3
70°	41.7	39.0	36.4	35.5	34.6	32.8	31.1	31.1	31.1	31.1	31.1
72.5°	31.1	29.3	26.6	25.7	24.8	24.0	22.2	23.1	22.2	22.2	22.2
75°	19.5	17.7	16.0	15.1	14.2	13.3	12.4	11.5	10.6	9.8	9.8
77.5°	10.6	8.9	8.0	7.1	7.1	6.2	5.3	5.3	4.4	4.4	4.4
80°	6.2	5.3	4.4	3.5	3.5	2.7	2.7	2.7	2.7	1.8	1.8
82.5°	3.5	2.7	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
85°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: LD6B15DE010W2N2765 EU6B1020W2N902765 6LBLWW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	677.8	680.4	677.8	680.4	680.4	680.4	680.4	677.8
5°	673.3	675.1	672.5	674.2	675.1	674.2	674.2	671.6
7.5°	665.4	667.1	664.5	667.1	668.0	667.1	666.2	664.5
10°	657.4	658.3	655.6	657.4	659.1	659.1	658.3	655.6
12.5°	645.0	647.6	645.0	646.7	648.5	649.4	649.4	646.7
15°	630.8	635.2	633.4	636.1	638.7	639.6	639.6	638.7
17.5°	616.6	621.0	618.3	622.8	625.4	627.2	628.1	626.3
20°	596.2	601.5	599.7	603.3	606.8	609.5	609.5	606.8
22.5°	569.5	576.6	575.8	578.4	582.9	583.7	585.5	583.7
25°	540.3	545.6	544.7	547.4	552.7	552.7	553.6	553.6
27.5°	506.6	511.9	511.0	512.8	516.3	517.2	518.1	516.3
30°	470.2	472.8	472.8	475.5	478.2	479.1	479.1	476.4
32.5°	430.3	433.8	435.6	434.7	437.4	439.1	438.3	438.3
35°	393.9	394.8	395.7	396.6	397.4	399.2	397.4	396.6
37.5°	354.9	357.5	355.7	357.5	359.3	358.4	357.5	357.5
40°	319.4	320.3	318.5	320.3	321.1	321.1	321.1	319.4
42.5°	283.9	285.7	283.9	285.7	285.7	285.7	285.7	284.8
45°	248.4	250.2	250.2	251.1	251.1	250.2	250.2	250.2
47.5°	215.6	217.4	215.6	217.4	218.2	216.5	216.5	216.5
50°	184.5	183.6	183.6	184.5	184.5	184.5	184.5	183.6
52.5°	152.6	153.5	153.5	153.5	154.4	153.5	154.4	154.4
55°	125.1	125.1	125.1	126.0	125.1	125.1	126.0	126.9
57.5°	100.2	99.4	98.5	98.5	99.4	98.5	98.5	98.5
60°	77.2	76.3	75.4	75.4	75.4	75.4	75.4	74.5
62.5°	57.7	57.7	57.7	58.6	58.6	58.6	58.6	59.4
65°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	47.0
67.5°	37.3	37.3	37.3	38.1	38.1	38.1	38.1	38.1
70°	31.1	31.1	31.9	31.1	31.9	31.9	31.9	31.9
72.5°	21.3	21.3	21.3	21.3	21.3	20.4	21.3	20.4
75°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.0
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)