

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: P252450

Luminaire Tested: **LD6B10D010 EU6B10209050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 786.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

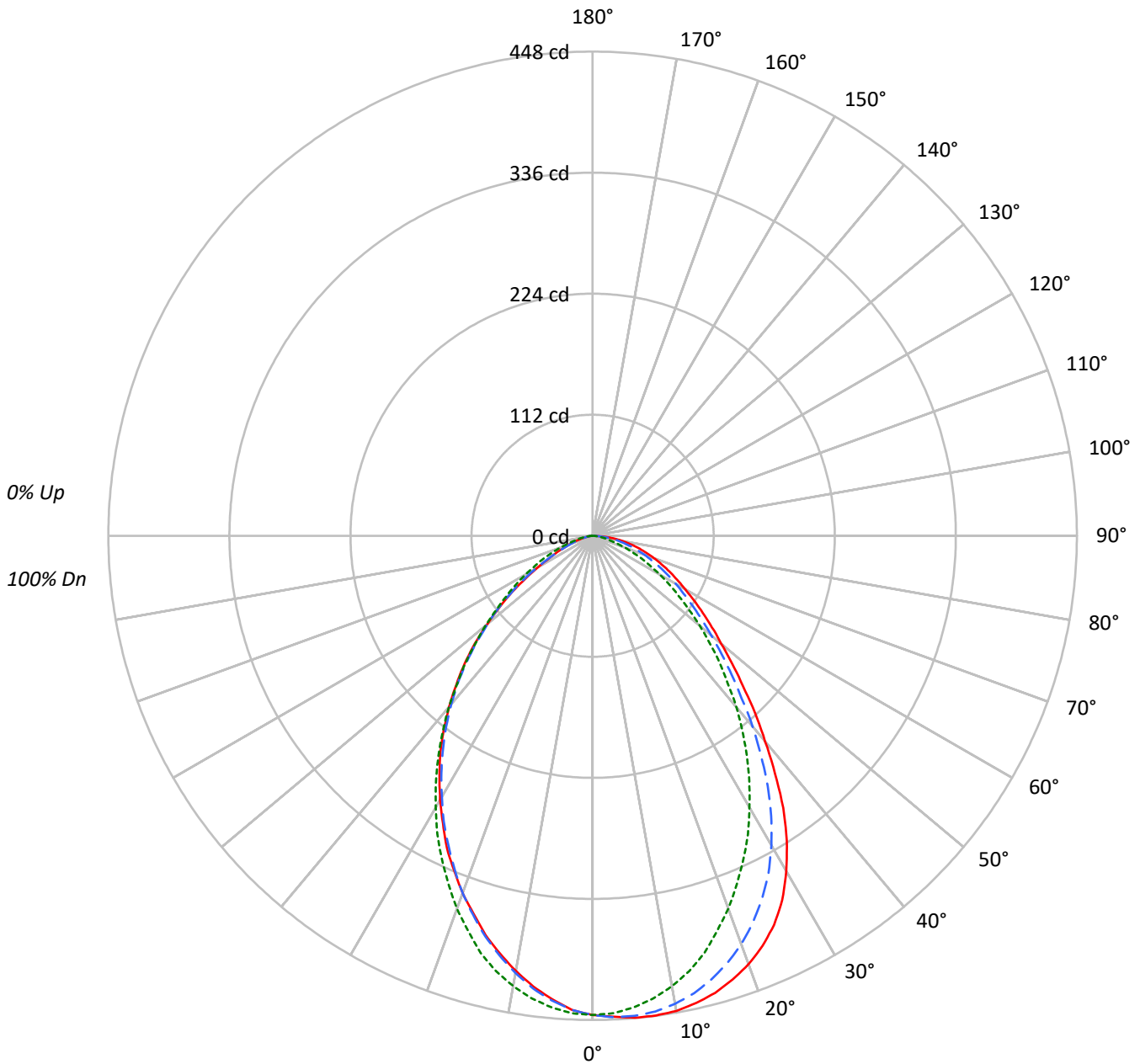
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252450

CATALOG NUMBER: LD6B10D010 EU6B10209050 6LBLWW1H

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	100	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28928	28928	28928
5°	29320	28678	28193
10°	29579	28029	27088
15°	29577	26997	25835
20°	29292	25487	24418
25°	28592	23762	22963
30°	26999	21854	21252
35°	24475	19815	19569
40°	21138	17621	17570
45°	18130	15344	15454
50°	15752	13123	12941
55°	14150	11067	10362
60°	12852	9316	7633
65°	12072	7703	5604
70°	11521	5990	4120
75°	11015	4336	2798
80°	10407	3006	1841
85°	9207	1871	898



TEST NUMBER: P252450

CATALOG NUMBER: LD6B10D010 EU6B10209050 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	5.3
10°-20°	113.6	14.5
20°-30°	157.7	20.1
30°-40°	163.4	20.8
40°-50°	134.2	17.1
50°-60°	92.3	11.7
60°-70°	53.0	6.7
70°-80°	24.4	3.1
80°-90°	5.9	0.8
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°	312.8	39.8
0°-40°	476.1	60.6
0°-60°	702.6	89.4
0°-90°	786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	443	443	443	443	443	
5°	448	446	438	432	430	43
15°	438	425	400	384	382	123
25°	397	371	330	316	319	182
35°	307	282	249	241	246	191
45°	196	182	166	164	168	153
55°	124	113	97	92	91	112
65°	78	68	50	35	36	78
75°	44	34	17	11	11	46
85°	12	9	2	1	1	14
90°	0	0	0	0	0	



TEST NUMBER: P252450

CATALOG NUMBER: LD6B10D010 EU6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	445.3	449.0	446.5	445.9	447.1	447.1	447.1	445.3	446.5	444.7	445.9
5°	447.7	450.8	448.3	447.1	448.3	449.0	447.1	445.9	447.7	445.3	445.9
7.5°	447.7	450.8	448.3	447.7	448.3	448.3	447.7	445.3	446.5	444.0	444.0
10°	446.5	449.0	446.5	445.3	445.9	445.3	445.3	442.2	442.8	439.7	439.7
12.5°	442.8	445.9	442.8	441.6	441.6	441.6	439.7	437.3	437.9	434.2	433.6
15°	437.9	440.3	437.3	436.0	436.0	435.4	434.2	430.5	430.5	426.8	424.9
17.5°	430.5	433.0	430.5	428.6	428.0	426.8	425.6	421.9	420.6	416.3	414.5
20°	421.9	423.7	421.2	419.4	418.2	416.9	414.5	410.8	409.5	405.2	402.2
22.5°	410.8	413.2	409.5	407.7	406.5	404.6	402.2	398.5	396.6	391.1	387.4
25°	397.2	398.5	395.4	393.5	391.1	389.8	388.0	383.1	381.2	375.1	370.7
27.5°	380.0	381.2	377.5	376.3	373.2	372.0	369.5	365.2	362.7	356.6	352.3
30°	358.4	359.7	357.2	355.4	352.9	350.4	348.6	344.3	340.6	334.4	330.7
32.5°	334.4	336.3	333.8	331.3	327.0	327.6	324.6	320.2	317.2	311.6	307.3
35°	307.3	308.5	305.5	304.9	302.4	299.9	296.8	293.8	291.9	285.8	282.1
37.5°	277.1	280.2	277.1	274.7	273.4	271.6	269.7	265.4	264.2	260.5	255.6
40°	248.2	250.0	248.2	245.7	243.9	243.9	241.4	239.0	235.9	232.2	230.3
42.5°	222.3	221.1	220.5	219.2	216.8	216.2	215.6	212.5	210.6	206.9	203.9
45°	196.5	197.1	195.8	195.2	193.4	192.1	190.9	188.5	187.8	184.1	181.7
47.5°	174.9	174.3	173.1	173.1	171.8	170.6	169.4	167.5	166.9	163.8	161.4
50°	155.2	155.8	155.2	154.6	152.7	152.1	150.9	149.7	148.4	145.3	142.9
52.5°	139.2	138.6	138.0	138.0	136.1	135.5	134.3	133.0	131.8	128.7	126.9
55°	124.4	124.4	123.8	123.2	121.3	120.7	120.1	118.9	117.0	114.6	112.7
57.5°	110.9	110.9	110.2	109.6	108.4	108.4	107.2	105.9	104.7	102.2	99.8
60°	98.5	99.2	98.5	97.9	96.7	96.7	96.1	94.2	93.6	90.5	88.7
62.5°	88.1	88.1	88.1	87.5	86.8	85.6	85.6	83.8	82.5	80.7	78.2
65°	78.2	78.2	78.2	77.6	76.4	75.8	75.1	73.9	72.7	70.8	68.4
67.5°	69.0	69.0	69.0	68.4	67.1	66.5	65.9	65.3	63.4	61.6	59.1
70°	60.4	60.4	59.7	59.1	58.5	57.9	57.3	56.0	54.8	52.3	50.5
72.5°	51.7	51.7	51.7	50.5	49.9	49.9	48.7	48.0	46.8	44.3	42.5
75°	43.7	43.1	43.1	42.5	41.9	41.3	40.6	40.0	38.2	37.0	34.5
77.5°	35.7	35.7	35.1	34.5	34.5	33.9	33.3	32.0	31.4	29.6	27.7
80°	27.7	27.7	27.7	27.7	27.1	26.5	26.5	25.3	24.6	22.8	21.6
82.5°	20.9	20.3	20.3	20.3	19.7	19.1	19.1	18.5	17.9	16.6	15.4
85°	12.3	11.7	11.7	11.7	11.1	11.1	10.5	10.5	9.9	8.6	8.6
87.5°	3.7	3.7	4.3	4.3	3.7	3.7	3.7	3.7	3.7	3.1	3.1
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: P252450

CATALOG NUMBER: LD6B10D010 EU6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	444.7	446.5	444.0	443.4	445.9	444.7	444.0	442.8	443.4	442.2	440.3
5°	444.0	446.5	443.4	441.6	444.7	442.8	441.6	440.3	440.3	437.9	436.6
7.5°	442.2	443.4	440.3	438.5	440.3	438.5	437.3	435.4	434.8	431.7	429.9
10°	437.3	438.5	434.8	432.3	434.2	431.7	429.9	428.0	426.8	423.1	420.6
12.5°	430.5	431.1	426.8	423.7	424.9	423.1	420.0	417.6	416.3	412.6	409.5
15°	421.2	421.9	416.9	412.6	413.9	411.4	407.7	405.2	403.4	399.7	395.4
17.5°	410.2	409.5	404.0	399.7	400.3	397.2	393.5	389.8	387.4	383.1	380.0
20°	397.8	396.0	389.8	384.9	385.5	381.8	377.5	373.8	370.7	367.1	362.7
22.5°	382.5	380.0	374.4	368.3	368.9	365.8	359.7	356.6	353.5	348.6	344.9
25°	365.8	362.1	356.6	350.4	350.4	346.7	341.8	338.1	335.0	330.1	325.8
27.5°	346.1	344.3	336.9	331.9	331.3	327.6	323.3	319.0	315.3	311.0	306.7
30°	324.6	321.5	315.9	310.4	309.2	306.1	301.8	296.8	294.4	290.1	286.4
32.5°	301.8	298.7	292.5	287.0	286.4	283.9	280.2	275.3	272.8	269.7	267.3
35°	275.9	274.7	268.5	264.2	264.2	261.7	258.0	253.7	251.9	248.8	245.7
37.5°	251.3	249.4	243.9	240.2	240.2	237.1	233.4	231.6	229.7	227.3	225.4
40°	225.4	224.2	219.9	216.2	216.8	214.3	211.9	209.4	208.2	206.9	205.1
42.5°	201.4	200.2	197.1	194.0	194.0	192.1	189.7	187.8	186.6	184.8	184.1
45°	179.8	178.0	175.5	172.4	172.4	170.6	169.4	168.1	167.5	166.3	164.4
47.5°	158.9	157.7	155.2	152.1	152.1	152.1	149.7	147.8	147.8	146.6	146.0
50°	141.0	139.2	137.3	134.9	134.9	133.6	131.8	129.9	129.9	129.3	128.1
52.5°	124.4	123.2	120.7	118.2	118.2	117.0	115.2	114.6	113.9	112.1	111.5
55°	110.2	109.0	107.2	104.1	103.5	102.8	101.0	99.8	99.2	97.3	97.3
57.5°	97.3	96.1	93.0	91.1	90.5	89.3	87.5	86.2	85.6	84.4	83.1
60°	86.2	84.4	81.9	79.4	78.8	77.6	75.8	74.5	73.9	71.4	70.2
62.5°	75.8	73.9	71.4	69.0	68.4	67.1	64.7	63.4	62.2	59.7	58.5
65°	65.9	64.0	61.6	59.1	57.9	57.3	54.8	53.0	51.7	49.9	47.4
67.5°	56.7	54.8	52.3	49.3	49.3	47.4	45.6	43.7	41.9	40.0	38.2
70°	48.0	46.2	43.7	41.3	40.6	39.4	37.6	35.1	33.9	31.4	29.6
72.5°	40.0	38.2	35.7	33.3	32.6	31.4	29.6	27.1	25.3	23.4	21.6
75°	32.6	30.8	28.3	26.5	25.9	24.6	22.8	20.3	18.5	17.2	15.4
77.5°	25.9	24.0	22.2	20.3	19.7	18.5	16.6	15.4	13.5	12.3	10.5
80°	19.7	18.5	16.6	15.4	14.8	13.5	12.3	10.5	9.2	8.0	7.4
82.5°	14.2	12.9	11.7	9.9	9.9	8.6	8.0	6.8	5.5	4.9	4.3
85°	8.0	6.8	6.2	5.5	4.9	4.9	4.3	3.7	3.1	2.5	2.5
87.5°	2.5	2.5	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2
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: P252450

CATALOG NUMBER: LD6B10D010 EU6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	440.3	441.0	439.7	441.0	439.7	440.3	439.1	440.3	439.1	440.3	437.9
5°	436.0	436.0	434.2	435.4	434.2	434.8	432.3	433.0	431.7	433.0	430.5
7.5°	428.6	429.3	426.2	427.4	425.6	425.6	423.7	424.3	422.5	423.1	421.2
10°	420.0	419.4	416.3	417.6	415.1	415.1	413.2	413.2	410.8	411.4	408.9
12.5°	407.7	407.1	403.4	404.6	402.2	402.2	400.3	400.3	397.8	399.1	396.6
15°	393.5	392.9	389.2	389.8	387.4	387.4	384.9	385.5	383.7	384.9	382.5
17.5°	377.5	376.9	373.2	373.8	370.7	371.4	369.5	368.9	367.7	368.3	366.4
20°	360.9	359.7	356.0	356.6	355.4	353.5	352.3	352.9	351.7	352.9	351.0
22.5°	343.7	341.2	338.1	338.1	336.9	336.9	335.0	336.3	333.8	335.6	334.4
25°	323.9	322.1	319.6	320.9	318.4	318.4	316.6	317.2	315.9	317.2	315.9
27.5°	304.9	303.6	299.9	301.2	299.3	299.9	298.1	298.7	298.1	299.3	298.1
30°	284.5	283.9	281.4	281.4	280.8	280.2	279.6	279.6	279.0	280.8	279.6
32.5°	265.4	263.6	261.1	263.0	259.9	261.7	260.5	261.7	260.5	261.7	261.1
35°	245.7	245.1	242.0	242.6	242.0	242.0	241.4	241.4	241.4	243.3	243.3
37.5°	224.8	224.2	222.3	222.9	221.7	221.1	221.1	222.3	222.3	223.6	223.6
40°	204.5	205.1	203.2	203.2	202.6	202.6	202.6	203.9	203.2	204.5	203.9
42.5°	184.1	184.1	182.3	182.9	182.3	182.9	182.9	184.1	184.1	184.8	184.1
45°	165.1	165.1	164.4	165.1	163.8	164.4	163.8	165.1	164.4	165.1	165.1
47.5°	146.0	146.0	146.0	145.3	145.3	145.3	145.3	145.3	144.7	146.0	145.3
50°	128.1	128.7	128.1	128.1	127.5	128.1	127.5	127.5	126.3	126.9	126.9
52.5°	112.1	112.1	110.9	110.9	110.9	110.2	110.2	110.2	109.6	109.6	108.4
55°	96.7	96.7	95.5	95.5	94.8	94.2	93.6	93.6	91.8	91.8	89.9
57.5°	82.5	81.9	80.1	80.1	78.8	78.2	77.6	77.0	75.8	74.5	73.9
60°	69.6	68.4	67.1	66.5	65.3	64.0	62.8	61.6	60.4	59.7	59.1
62.5°	57.3	55.4	54.2	53.6	52.3	50.5	49.3	48.0	46.8	46.2	45.0
65°	46.2	44.3	42.5	41.9	40.6	39.4	37.6	36.3	35.1	34.5	34.5
67.5°	36.3	34.5	32.0	32.0	30.8	29.6	28.3	27.1	26.5	27.1	27.1
70°	27.1	25.9	24.0	23.4	22.2	20.9	20.3	20.3	20.3	20.9	20.3
72.5°	20.3	18.5	17.2	16.6	16.0	15.4	15.4	15.4	14.8	15.4	15.4
75°	14.2	12.9	11.7	11.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1
77.5°	9.9	8.6	8.0	8.0	8.0	7.4	7.4	7.4	7.4	7.4	7.4
80°	6.2	6.2	5.5	5.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	3.7	3.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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: P252450

CATALOG NUMBER: LD6B10D010 EU6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	437.9	439.7	437.3	439.1	438.5	437.9	436.6	439.1
5°	430.5	431.1	428.6	431.1	430.5	429.3	428.0	430.5
7.5°	420.0	421.9	418.8	421.2	420.6	419.4	418.2	420.6
10°	408.3	410.2	407.7	409.5	409.5	408.3	406.5	408.9
12.5°	395.4	396.6	394.2	396.6	396.0	394.8	394.2	396.0
15°	381.2	383.1	380.6	382.5	381.8	381.2	380.6	382.5
17.5°	365.8	367.7	365.8	367.7	367.7	365.8	365.2	366.4
20°	350.4	351.7	349.8	351.7	351.0	351.0	349.8	351.7
22.5°	333.2	335.0	333.8	335.0	334.4	334.4	333.8	335.0
25°	315.9	317.8	315.9	317.8	317.2	317.2	315.9	319.0
27.5°	298.7	299.9	298.1	300.5	299.9	298.7	299.3	299.9
30°	280.2	281.4	280.2	282.1	282.1	282.1	280.8	282.1
32.5°	261.7	263.6	261.7	263.6	263.0	263.0	262.4	263.6
35°	243.3	243.9	242.6	244.5	244.5	245.1	243.9	245.7
37.5°	224.2	224.8	224.2	224.8	226.0	224.2	225.4	226.0
40°	204.5	205.7	205.1	205.7	205.7	206.3	205.7	206.3
42.5°	184.8	186.0	184.8	186.6	186.0	186.0	186.6	186.6
45°	164.4	166.3	165.1	166.3	166.9	166.3	166.3	167.5
47.5°	145.3	146.6	146.0	146.6	146.6	146.6	146.6	147.8
50°	126.3	126.9	126.9	127.5	127.5	128.1	126.9	127.5
52.5°	107.2	108.4	108.4	108.4	107.8	108.4	108.4	108.4
55°	89.9	90.5	89.3	90.5	90.5	89.9	89.9	91.1
57.5°	73.3	73.3	73.3	73.3	73.3	72.7	73.3	73.3
60°	57.9	58.5	57.9	57.9	57.9	57.9	57.3	58.5
62.5°	45.0	45.0	44.3	45.0	45.0	45.0	45.6	45.6
65°	35.1	35.7	35.1	35.7	35.7	35.7	35.7	36.3
67.5°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
70°	20.9	20.9	20.9	21.6	20.9	20.9	20.9	21.6
72.5°	15.4	15.4	15.4	15.4	15.4	15.4	16.0	16.0
75°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
77.5°	7.4	7.4	7.4	8.0	7.4	8.0	7.4	7.4
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
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)