

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: PORTFOLIO

Report Number: P252659

Luminaire Tested: **LE_6B10D010 EC6B10209727 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209727 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 886.2 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

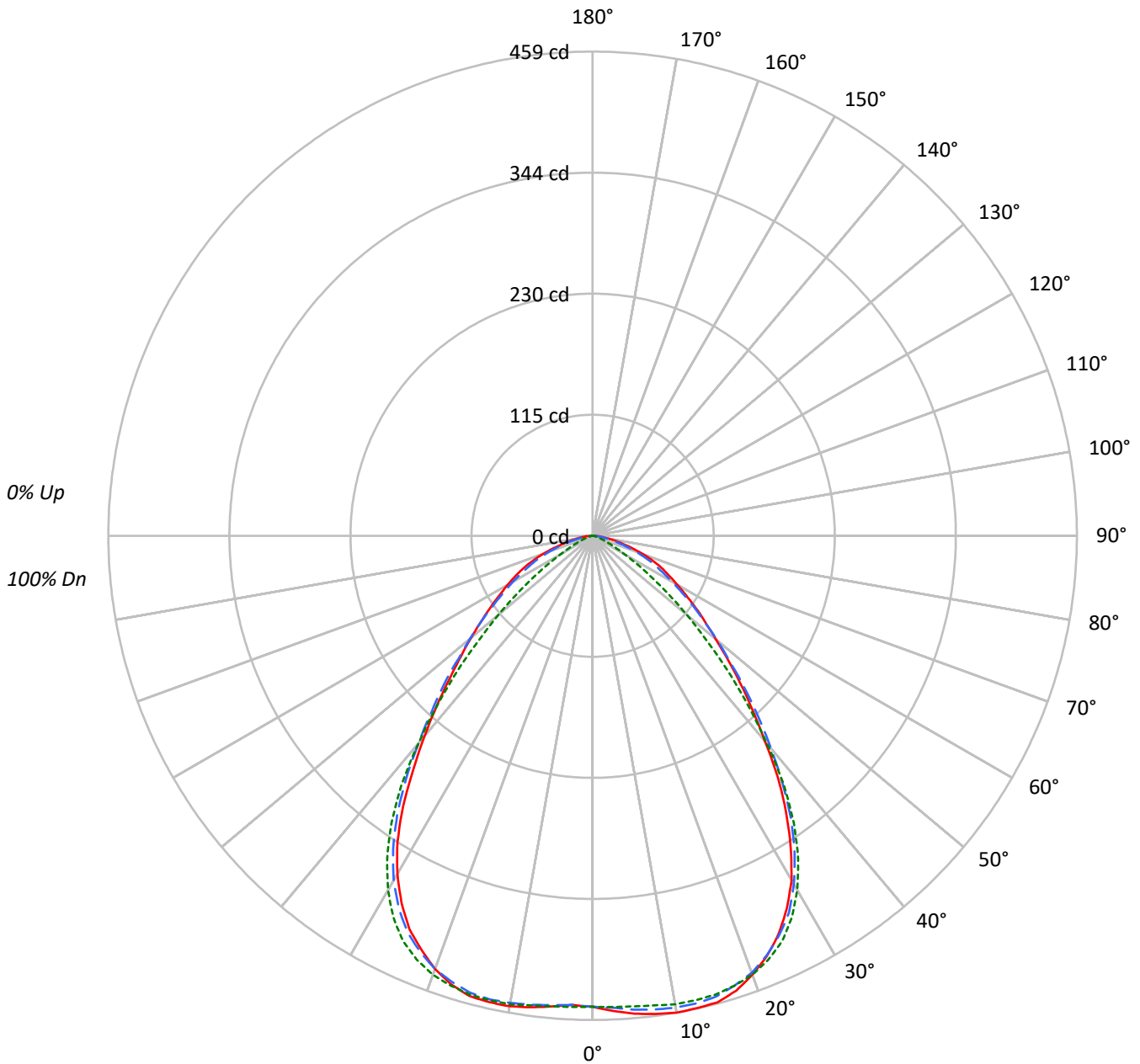
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252659

CATALOG NUMBER: LE_6B10D010 EC6B10209727 6LBDW1H

Luminous Intensity Polar Plot





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CATALOG NUMBER: LE_6B10D010 EC6B10209727 6LBDW1H

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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29130	29130	29130
5°	29785	29326	29326
10°	30414	29871	30003
15°	30928	30407	30502
20°	30743	30743	30340
25°	30011	30550	29593
30°	28401	29214	27881
35°	25454	26458	24945
40°	21624	21888	21087
45°	18287	16718	17659
50°	15448	11794	15245
55°	13581	7621	13433
60°	12030	4541	12122
65°	11115	2717	11115
70°	9633	1564	9385
75°	7663	958	7159
80°	5673	714	5448
85°	5240	449	4791



TEST NUMBER: P252659

CATALOG NUMBER: LE_6B10D010 EC6B10209727 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	4.9
10°-20°	127.2	14.4
20°-30°	191.3	21.6
30°-40°	201.2	22.7
40°-50°	150.3	17.0
50°-60°	93.6	10.6
60°-70°	53.2	6.0
70°-80°	21.9	2.5
80°-90°	4.5	0.5
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°	361.6	40.8
0°-40°	562.7	63.5
0°-60°	806.6	91.0
0°-90°	886.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	446	446	446	446	446	
5°	455	451	448	446	448	44
15°	458	452	450	448	452	129
25°	417	418	424	415	411	191
35°	320	328	332	323	313	198
45°	198	203	181	199	191	154
55°	119	117	67	115	118	107
65°	72	64	18	64	72	71
75°	30	24	4	23	28	33
85°	7	4	1	4	6	8
90°	0	0	0	0	0	



TEST NUMBER: P252659

CATALOG NUMBER: LE_6B10D010 EC6B10209727 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	450.9	450.2	450.9	449.6	449.0	449.0	449.6	448.4	447.8	448.4	447.8
5°	454.8	453.5	454.1	453.5	452.2	452.2	452.9	450.9	450.9	451.6	450.9
7.5°	457.2	457.2	457.2	456.0	455.4	454.8	456.0	454.1	453.5	453.5	452.9
10°	459.1	458.5	459.1	457.9	456.6	456.0	457.2	456.0	454.8	456.0	454.1
12.5°	458.5	458.5	458.5	457.9	456.6	456.0	457.2	455.4	454.8	455.4	454.1
15°	457.9	456.0	456.6	456.0	454.1	454.1	454.8	452.9	451.6	453.5	452.2
17.5°	452.2	450.9	451.6	450.2	449.0	448.4	449.0	448.4	447.1	448.4	447.1
20°	442.8	442.8	443.4	442.1	440.9	440.2	441.5	440.2	438.9	440.9	440.9
22.5°	431.4	431.4	431.4	430.8	430.1	430.1	430.1	429.5	428.9	430.1	430.8
25°	416.9	416.2	416.9	417.5	416.9	416.2	416.9	416.9	415.6	418.1	418.1
27.5°	398.5	398.5	399.8	399.1	399.1	398.5	399.8	399.8	399.1	401.0	402.9
30°	377.0	375.8	377.0	377.0	377.6	377.6	378.2	378.2	378.2	380.2	381.5
32.5°	349.2	349.9	351.8	351.1	350.5	352.4	352.4	353.6	354.2	355.6	356.2
35°	319.6	320.2	320.2	320.9	322.1	320.9	324.0	323.4	324.0	326.5	327.8
37.5°	288.0	286.1	289.2	288.0	288.6	288.6	289.9	290.5	292.4	295.6	295.6
40°	253.9	254.5	255.8	256.4	257.0	257.0	257.0	259.0	259.6	263.4	262.8
42.5°	224.2	224.2	225.5	226.1	226.1	226.1	226.1	228.0	229.2	230.5	231.8
45°	198.2	196.4	197.6	197.6	199.0	198.2	199.6	200.9	201.5	203.4	202.8
47.5°	173.6	173.0	173.6	174.2	173.6	174.2	175.0	175.6	176.2	176.2	176.2
50°	152.2	152.2	152.9	153.5	153.5	153.5	153.5	154.1	154.1	155.4	154.1
52.5°	134.5	135.1	135.1	134.5	135.1	135.1	135.8	135.8	135.1	135.1	133.2
55°	119.4	118.8	119.4	118.8	119.4	119.4	118.8	118.8	118.1	117.5	116.9
57.5°	104.9	104.9	104.9	104.9	104.2	104.9	104.2	103.6	103.6	102.2	100.4
60°	92.2	92.2	92.2	92.2	92.2	91.6	92.2	91.6	90.4	89.0	86.5
62.5°	81.5	80.9	81.5	80.9	80.9	80.2	80.2	79.6	78.4	77.0	74.5
65°	72.0	72.6	72.0	72.0	71.4	70.8	70.8	70.1	68.2	67.0	64.4
67.5°	61.9	61.2	61.2	61.2	60.6	60.6	60.6	59.4	58.1	56.2	53.6
70°	50.5	50.5	50.5	49.9	49.9	49.2	49.2	48.6	47.4	46.1	43.0
72.5°	39.8	39.8	39.8	38.5	39.1	38.5	38.5	37.2	36.6	34.8	32.9
75°	30.4	30.4	29.6	29.6	29.0	28.4	28.4	27.8	27.1	25.9	24.0
77.5°	22.1	22.1	22.1	21.5	20.9	20.2	20.2	19.6	19.0	18.4	17.0
80°	15.1	15.1	15.1	15.1	14.5	13.9	13.9	13.2	13.2	12.6	11.4
82.5°	10.1	10.1	10.1	10.1	9.5	9.5	9.5	8.9	8.2	8.2	7.0
85°	7.0	7.0	6.4	6.4	6.4	6.4	5.6	5.6	5.0	4.4	4.4
87.5°	3.8	3.8	3.8	3.8	3.1	3.1	3.1	3.1	2.5	2.5	1.9
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: P252659

CATALOG NUMBER: LE_6B10D010 EC6B10209727 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	449.6	449.6	449.0	447.1	447.8	447.1	447.8	447.1	445.2	447.1	445.2
5°	452.2	452.9	451.6	449.0	449.6	449.0	449.0	448.4	446.5	447.8	446.5
7.5°	454.8	454.1	453.5	450.9	451.6	450.9	450.9	449.6	447.8	449.0	447.1
10°	456.0	456.0	454.8	452.2	452.2	451.6	452.2	451.6	449.0	450.9	449.6
12.5°	456.0	455.4	455.4	452.2	452.9	452.2	452.9	451.6	449.6	450.9	450.2
15°	454.1	454.1	453.5	450.2	450.9	450.9	451.6	450.2	448.4	450.2	449.0
17.5°	450.2	450.2	449.6	447.1	448.4	448.4	449.0	447.8	445.9	447.1	447.1
20°	442.8	443.4	443.4	441.5	442.8	442.8	443.4	442.8	442.1	442.8	441.5
22.5°	433.9	435.1	435.1	433.2	434.5	434.5	436.4	435.8	434.5	435.1	434.5
25°	420.6	421.9	423.1	421.9	423.1	423.1	425.0	424.4	423.1	424.4	422.5
27.5°	405.5	406.1	407.4	406.1	408.0	407.4	409.2	408.6	406.8	408.6	408.0
30°	384.0	386.5	388.4	386.5	388.4	388.4	389.6	389.0	388.4	387.8	387.8
32.5°	360.0	362.5	362.5	361.9	363.1	363.1	363.8	362.5	361.9	362.5	363.1
35°	330.2	331.6	332.9	332.2	332.9	333.5	332.9	333.5	331.6	332.2	332.2
37.5°	298.1	299.4	299.4	297.5	298.8	298.8	297.5	297.5	296.2	297.5	295.0
40°	264.0	262.8	263.4	262.1	260.9	260.9	260.2	257.6	256.4	257.0	257.6
42.5°	230.5	230.5	228.6	225.5	222.2	222.2	220.4	219.1	216.6	217.9	217.2
45°	202.1	199.0	196.4	191.4	189.5	188.2	185.0	181.9	180.6	181.2	180.6
47.5°	175.0	172.4	166.1	159.1	157.2	155.4	151.6	147.8	146.5	145.2	145.2
50°	152.2	147.8	140.9	133.2	130.1	127.0	121.9	118.1	115.6	116.2	116.2
52.5°	131.4	126.2	118.1	108.6	104.9	101.0	96.6	92.2	90.4	89.6	89.6
55°	113.0	107.4	99.1	88.4	85.2	80.9	75.1	70.1	67.6	67.0	68.2
57.5°	96.6	91.6	82.1	71.4	67.6	63.1	57.5	53.0	49.9	49.2	49.9
60°	83.4	76.4	68.2	58.1	53.0	49.2	43.0	39.1	36.0	34.8	35.4
62.5°	70.1	63.8	55.6	45.5	41.6	37.9	32.2	27.8	25.2	24.6	25.2
65°	60.0	53.6	46.1	37.2	33.5	29.6	24.6	20.2	18.4	17.6	18.4
67.5°	49.9	44.2	37.9	29.6	26.5	23.4	18.4	15.1	12.6	12.0	12.6
70°	40.4	35.4	29.0	23.4	20.2	17.6	13.9	10.8	8.9	8.2	8.9
72.5°	30.4	26.5	22.1	17.0	15.1	13.2	10.1	7.6	6.4	5.6	6.4
75°	22.1	19.0	15.8	12.0	10.8	9.5	7.0	5.0	4.4	3.8	4.4
77.5°	15.1	13.2	10.8	8.2	7.0	6.4	4.4	3.8	3.1	2.5	2.5
80°	10.1	8.9	7.0	5.6	5.0	4.4	3.1	2.5	1.9	1.9	1.9
82.5°	6.4	5.0	4.4	3.1	2.5	2.5	1.9	1.2	1.2	1.2	1.2
85°	3.8	3.1	2.5	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6
87.5°	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.6
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: P252659

CATALOG NUMBER: LE_6B10D010 EC6B10209727 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	446.5	445.2	445.2	445.9	446.5	447.1	445.9	445.2	445.2	447.1	445.9
5°	446.5	445.9	445.9	445.9	447.1	447.8	446.5	445.9	446.5	448.4	447.8
7.5°	448.4	447.1	447.8	447.8	448.4	449.6	448.4	447.8	448.4	450.2	449.0
10°	449.6	448.4	449.0	448.4	450.2	450.9	449.6	449.0	449.6	452.2	451.6
12.5°	450.2	449.6	449.6	449.0	450.9	451.6	450.2	449.6	450.2	452.2	451.6
15°	449.0	448.4	448.4	448.4	449.6	450.9	449.0	448.4	448.4	450.2	449.6
17.5°	446.5	445.2	445.2	445.2	445.9	446.5	444.6	444.0	443.4	445.2	444.6
20°	442.1	440.9	439.6	439.6	440.2	440.2	438.9	437.0	437.0	437.6	436.4
22.5°	433.9	433.2	432.0	431.4	432.6	432.0	429.5	427.6	426.9	427.6	426.2
25°	422.5	421.2	420.6	420.0	420.6	420.0	417.5	414.9	414.9	414.9	413.0
27.5°	406.8	405.5	404.9	404.9	405.5	404.2	401.6	399.1	397.9	397.9	396.0
30°	386.5	386.5	385.9	385.2	384.6	384.6	380.9	378.2	377.0	377.6	376.4
32.5°	361.9	361.2	360.6	358.8	359.4	358.8	355.6	353.6	351.8	350.5	349.9
35°	330.2	330.2	329.6	329.6	329.6	329.0	325.9	324.0	322.8	322.1	320.2
37.5°	295.6	295.0	294.2	294.2	294.2	294.2	292.4	290.5	290.5	289.9	288.6
40°	256.4	257.0	257.6	257.0	259.0	260.9	258.2	257.0	256.4	258.2	255.8
42.5°	218.5	217.9	221.0	221.6	221.6	224.9	225.5	226.1	225.5	226.8	226.8
45°	181.9	181.2	184.4	185.6	188.9	192.6	194.5	197.6	199.0	200.2	199.0
47.5°	147.1	149.6	152.2	155.4	157.9	164.2	168.0	171.1	172.4	174.2	174.2
50°	118.1	120.6	125.0	127.6	130.8	138.2	144.6	149.0	151.6	153.5	152.9
52.5°	91.0	95.4	101.0	103.6	108.0	116.9	123.8	128.9	132.0	133.9	134.5
55°	70.1	73.9	79.6	83.4	87.8	97.2	106.1	111.8	115.0	117.5	118.8
57.5°	51.8	56.2	62.5	65.6	70.8	81.5	89.0	96.0	99.8	103.0	103.6
60°	37.9	42.4	48.0	51.8	56.9	67.6	76.4	82.8	87.1	89.6	91.0
62.5°	27.1	31.6	37.2	41.0	45.5	55.0	63.8	70.1	74.5	77.6	79.6
65°	19.6	24.0	29.6	32.9	36.6	45.5	53.6	60.0	64.4	68.2	69.5
67.5°	14.5	17.6	22.8	25.9	29.6	36.6	43.6	49.2	53.6	56.9	58.1
70°	10.8	13.2	17.6	19.6	22.1	28.4	34.1	39.1	43.0	45.5	46.8
72.5°	7.6	9.5	12.6	14.5	16.4	21.5	25.9	29.6	32.2	34.8	36.0
75°	5.0	6.4	8.9	10.1	11.4	15.1	18.4	21.5	23.4	25.2	25.9
77.5°	3.1	4.4	6.4	7.0	8.2	10.1	12.6	14.5	15.8	17.0	18.4
80°	1.9	2.5	3.8	4.4	5.0	7.0	8.2	9.5	10.8	12.0	12.6
82.5°	1.2	1.9	2.5	2.5	3.1	3.8	5.0	6.4	7.0	7.6	8.2
85°	0.6	0.6	1.2	1.2	1.9	1.9	2.5	3.1	3.8	4.4	5.0
87.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.9	1.9	1.9	2.5	2.5
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: P252659

CATALOG NUMBER: LE_6B10D010 EC6B10209727 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	444.6	446.5	444.6	445.9	445.2	445.2	444.6	445.2
5°	446.5	449.0	446.5	448.4	447.1	447.1	447.1	447.8
7.5°	448.4	450.9	449.0	450.9	450.2	449.6	449.6	450.9
10°	450.2	452.2	450.9	452.9	452.2	451.6	451.6	452.9
12.5°	450.2	452.9	451.6	453.5	452.9	452.2	452.2	452.9
15°	448.4	451.6	449.6	451.6	450.9	450.2	450.2	451.6
17.5°	442.8	445.2	444.0	445.2	445.2	444.6	445.2	445.9
20°	435.1	437.0	435.8	437.0	437.0	435.8	436.4	437.0
22.5°	424.4	426.2	425.0	426.2	425.6	425.0	425.0	424.4
25°	411.1	413.6	411.8	413.0	411.8	410.5	410.5	411.1
27.5°	394.8	396.6	394.1	395.4	394.1	392.9	392.9	392.2
30°	373.2	373.9	372.0	373.2	372.0	371.4	370.1	370.1
32.5°	347.4	348.0	346.1	346.1	344.9	344.9	342.2	344.2
35°	317.0	317.6	317.0	316.4	314.5	313.9	313.2	313.2
37.5°	285.5	285.5	283.6	283.0	281.6	280.4	281.0	279.1
40°	253.2	252.6	250.8	251.4	250.8	248.9	248.2	247.6
42.5°	223.0	223.0	221.0	221.6	220.4	219.8	217.9	218.5
45°	196.4	196.4	194.5	194.5	193.9	192.0	192.6	191.4
47.5°	172.4	172.4	171.8	171.8	169.9	169.2	169.2	169.2
50°	151.6	151.6	151.6	151.6	151.0	150.2	149.6	150.2
52.5°	133.9	135.1	134.5	134.5	133.9	133.2	132.6	132.6
55°	118.1	118.8	118.8	119.4	118.8	118.1	118.8	118.1
57.5°	104.2	105.5	105.5	105.5	105.5	105.5	104.9	104.2
60°	92.2	92.9	92.9	93.5	93.5	93.5	92.9	92.9
62.5°	80.2	81.5	82.1	82.1	82.8	82.1	82.1	82.1
65°	70.8	72.0	72.6	72.0	72.6	72.6	72.0	72.0
67.5°	59.4	60.6	60.6	60.6	60.6	61.2	60.6	60.6
70°	48.0	49.2	48.6	49.2	49.2	49.2	49.2	49.2
72.5°	36.6	37.2	37.9	37.9	38.5	37.9	37.9	37.9
75°	26.5	27.8	27.8	27.8	27.8	28.4	28.4	28.4
77.5°	19.0	19.6	19.6	20.2	20.2	20.2	20.2	20.9
80°	13.2	13.2	13.9	13.9	14.5	14.5	14.5	14.5
82.5°	8.9	9.5	9.5	9.5	9.5	9.5	9.5	9.5
85°	5.0	5.6	5.6	5.6	5.6	6.4	6.4	6.4
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.5	2.5
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)