

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684620

Luminaire Tested: **LX6C08D010 EX6C089040 6LBLWWH**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P684620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C08D010 EX6C089040 6LBLWWH
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

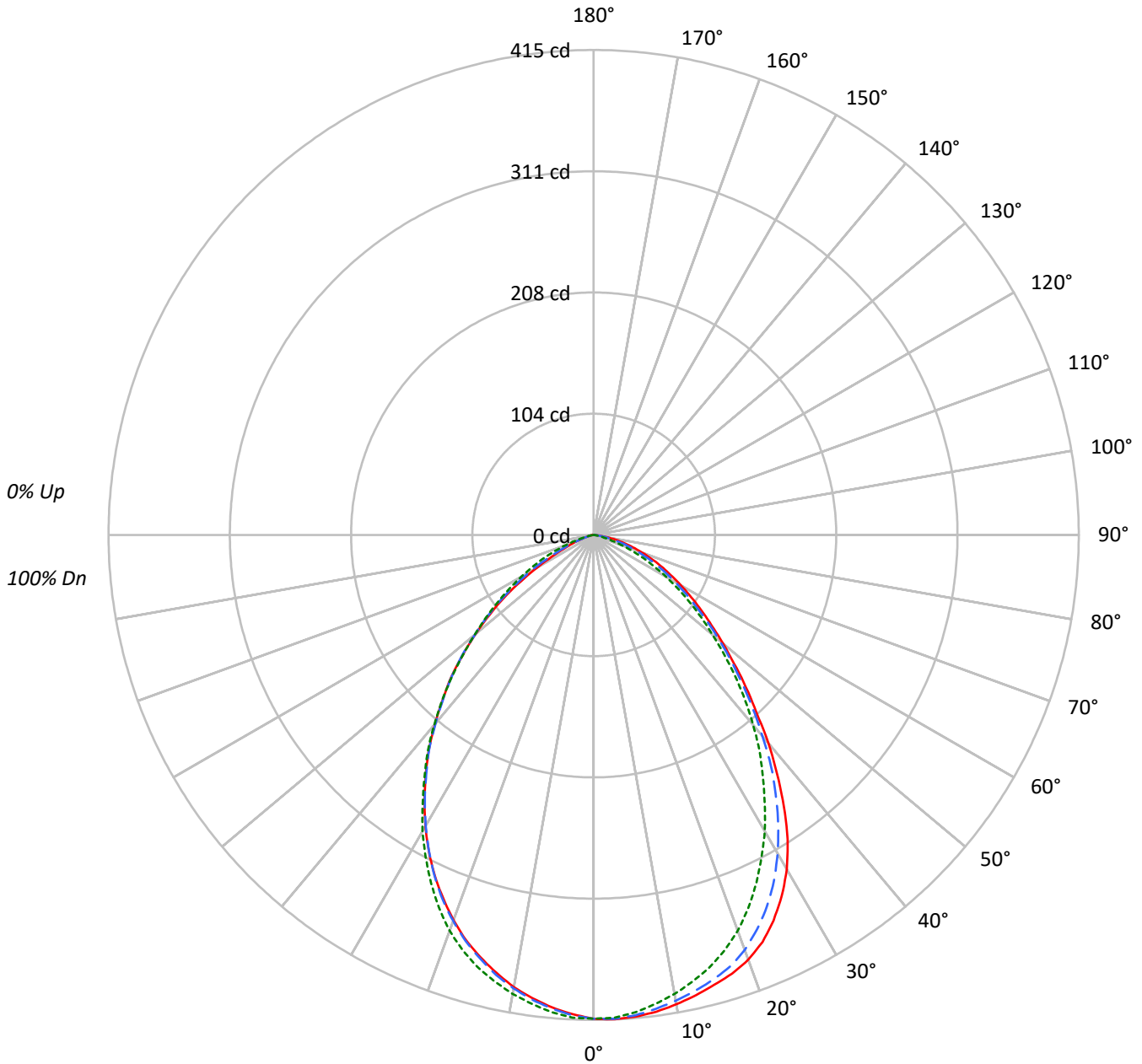
Lumens per Lamp: N/A
Luminaire Lumens: 753.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (A_{in}): 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	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22696	22696	22696
5°	22771	22568	22342
10°	22701	22200	21877
15°	22616	21742	21237
20°	22565	21025	20465
25°	22017	19900	19459
30°	20921	18534	18224
35°	18986	16871	16764
40°	16660	15186	15107
45°	14281	13273	13373
50°	12298	11309	11249
55°	10743	9548	8965
60°	9440	7828	6118
65°	8263	6071	3684
70°	7052	4087	2164
75°	5698	2118	1186
80°	3946	821	663
85°	1572	252	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	5.2
10°-20°	108.3	14.4
20°-30°	154.1	20.5
30°-40°	162.2	21.5
40°-50°	135.2	18.0
50°-60°	91.3	12.1
60°-70°	46.3	6.2
70°-80°	14.9	2.0
80°-90°	1.7	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°	301.2	40.0
0°-40°	463.5	61.6
0°-60°	690.0	91.6
0°-90°	753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	414	414	414	414	414	
5°	414	413	410	407	406	39
15°	398	394	383	375	374	113
25°	364	351	329	322	322	167
35°	284	272	252	250	250	177
45°	184	180	171	172	172	143
55°	112	107	100	97	94	101
65°	64	58	47	34	28	63
75°	27	21	10	5	6	29
85°	2	1	0	1	1	4
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°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	414.9	414.9	414.9	414.9	414.9	414.9	414.8	414.8	414.5	414.5	414.4
5°	413.8	414.0	414.0	413.8	413.8	413.6	413.6	413.4	413.0	412.7	412.6
7.5°	411.5	411.5	411.3	411.2	411.0	410.6	410.5	410.1	409.8	409.5	409.0
10°	407.8	407.8	407.7	407.4	407.3	407.0	407.0	406.5	405.9	405.2	404.8
12.5°	403.5	403.7	403.4	403.3	402.8	402.7	402.4	401.7	401.3	400.5	399.8
15°	398.5	398.8	398.8	398.2	397.8	397.7	397.3	396.9	395.9	395.0	394.2
17.5°	393.7	393.9	393.7	393.2	392.8	392.3	392.0	391.2	389.9	388.8	387.5
20°	386.8	387.3	386.7	386.0	385.2	385.0	384.6	383.2	381.4	379.7	377.9
22.5°	377.2	377.0	376.5	376.3	374.9	374.0	373.5	371.7	369.7	367.5	365.3
25°	364.0	364.6	363.7	362.5	361.8	361.0	359.6	357.6	355.8	353.4	350.8
27.5°	348.4	348.4	347.3	346.9	345.4	344.3	343.6	341.6	339.2	336.9	334.0
30°	330.5	329.6	329.6	327.7	326.4	326.0	325.3	322.1	320.0	317.5	314.6
32.5°	308.8	308.6	308.1	306.8	305.2	303.8	303.8	301.5	298.8	295.7	293.9
35°	283.7	283.9	283.6	282.2	282.2	280.5	280.2	278.3	276.1	273.7	271.5
37.5°	257.8	258.4	257.8	257.1	256.7	256.6	255.3	253.9	252.3	250.9	249.2
40°	232.8	232.0	232.2	230.8	231.0	230.7	230.2	228.3	227.4	226.0	224.2
42.5°	205.8	206.6	206.9	206.1	205.8	205.2	205.8	205.1	204.0	203.3	201.6
45°	184.2	183.4	183.8	183.5	183.7	182.6	182.1	181.9	181.5	180.2	179.5
47.5°	162.8	162.9	162.8	162.2	162.0	162.0	161.4	160.6	160.6	159.7	159.2
50°	144.2	144.2	144.4	143.7	143.5	142.9	143.0	142.2	141.7	141.0	140.5
52.5°	127.0	127.2	126.6	126.8	126.5	126.5	125.9	125.4	124.8	123.6	123.3
55°	112.4	112.6	111.9	112.2	111.3	110.9	110.6	109.8	109.8	108.5	107.0
57.5°	98.8	98.7	98.5	98.1	97.5	97.1	96.7	95.7	95.3	94.5	93.2
60°	86.1	86.0	85.7	85.6	85.2	84.2	84.2	83.5	82.1	81.3	80.0
62.5°	74.2	74.2	74.0	73.6	73.2	72.8	72.5	71.9	70.5	69.6	68.5
65°	63.7	63.6	63.2	62.5	62.2	62.2	61.2	60.8	59.7	58.7	57.5
67.5°	53.7	53.2	52.9	53.0	52.2	52.2	51.3	50.7	49.7	48.0	47.0
70°	44.0	43.7	43.4	43.1	43.0	42.4	42.0	41.2	40.2	39.0	37.4
72.5°	35.2	35.2	34.8	34.5	34.1	33.5	33.3	32.6	31.4	30.1	28.9
75°	26.9	26.9	26.9	26.3	26.0	25.7	24.9	24.5	23.2	22.4	21.0
77.5°	19.8	19.5	19.1	18.9	18.6	18.4	18.0	17.3	16.1	15.2	14.3
80°	12.5	12.9	12.5	12.5	11.8	11.5	11.4	10.6	10.2	9.3	8.6
82.5°	7.0	7.1	6.8	6.7	6.3	6.1	6.1	5.6	5.3	4.7	4.3
85°	2.5	2.6	2.5	2.5	2.2	2.4	2.2	2.1	1.8	1.5	1.4
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	414.4	414.1	414.1	414.0	413.8	413.8	413.8	413.7	413.4	413.4	413.3
5°	412.3	412.0	411.6	411.3	411.2	411.0	410.9	410.8	410.2	410.1	409.7
7.5°	408.5	408.3	407.6	407.3	406.9	406.7	406.2	405.9	405.3	404.8	404.5
10°	404.1	403.4	402.8	402.1	401.9	401.4	400.8	399.9	399.5	398.8	398.2
12.5°	399.1	398.2	397.1	396.3	396.0	395.3	394.2	393.5	392.5	391.4	390.5
15°	392.8	391.8	390.9	389.3	388.9	388.1	387.0	385.6	384.2	383.1	382.0
17.5°	386.0	384.5	382.9	381.3	380.0	379.6	377.8	375.8	374.6	372.6	371.4
20°	376.4	374.3	371.8	370.1	369.0	367.8	365.7	363.6	362.1	360.4	358.6
22.5°	363.2	361.2	358.3	355.8	355.0	353.2	351.4	349.4	347.5	345.6	343.4
25°	347.6	345.5	342.6	340.1	338.7	337.9	334.4	332.4	330.5	329.0	327.4
27.5°	331.6	327.8	325.9	322.0	320.7	320.5	317.3	315.2	313.1	311.0	309.1
30°	311.8	308.9	306.0	303.2	301.5	300.6	298.2	295.6	294.2	292.8	290.8
32.5°	291.4	288.7	285.1	282.5	281.2	279.8	277.7	275.9	273.8	272.3	271.9
35°	269.5	266.6	263.5	261.6	261.3	259.7	257.6	256.0	254.5	252.1	251.7
37.5°	246.2	244.5	242.4	239.6	238.4	238.4	236.3	235.2	233.2	233.1	232.0
40°	223.2	222.5	219.3	218.5	218.2	216.2	215.7	213.7	212.3	212.2	210.5
42.5°	200.5	198.7	198.1	196.8	195.5	195.2	194.0	193.1	192.6	191.7	190.9
45°	178.0	177.6	176.2	175.2	174.8	174.2	173.8	172.1	171.9	171.2	170.7
47.5°	158.5	157.4	156.1	155.0	154.9	154.0	153.1	153.1	151.5	151.4	151.1
50°	139.1	138.3	137.6	136.1	136.4	135.3	135.1	133.9	133.2	132.6	133.3
52.5°	122.2	120.5	120.2	119.0	118.6	118.7	117.2	116.7	116.5	115.9	115.6
55°	106.0	105.2	104.1	103.2	102.6	101.9	101.3	101.3	99.8	99.9	99.2
57.5°	91.8	91.1	89.8	88.5	88.2	87.4	86.7	86.0	85.9	84.9	84.2
60°	79.2	77.9	76.1	75.6	74.7	74.0	73.3	72.5	72.1	71.4	70.1
62.5°	67.3	65.3	64.6	63.5	62.5	62.1	60.9	60.0	59.3	58.3	57.3
65°	56.1	54.5	53.3	52.0	51.9	50.8	49.8	49.0	47.6	46.8	44.9
67.5°	45.8	44.4	43.0	41.7	40.8	40.5	39.0	38.0	37.0	35.3	33.8
70°	36.3	34.9	33.8	32.3	31.9	30.8	29.6	28.7	27.0	25.5	24.2
72.5°	27.7	26.2	24.9	23.8	23.1	22.1	21.0	19.9	18.2	16.7	15.6
75°	19.8	18.6	17.4	16.3	15.7	15.2	13.9	12.7	11.5	10.0	9.0
77.5°	13.4	12.2	11.1	10.2	9.5	9.0	8.2	7.2	6.3	5.4	4.7
80°	7.8	7.1	6.3	5.4	5.3	4.9	4.2	3.6	3.1	2.6	2.1
82.5°	3.8	3.3	2.8	2.4	2.1	1.9	1.7	1.4	1.1	1.0	1.0
85°	1.1	1.0	0.8	0.7	0.6	0.6	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	412.9	412.7	412.6	412.4	412.2	412.2	411.7	411.5	411.5	411.2	411.0
5°	409.2	408.8	408.7	408.4	408.1	408.0	407.4	407.3	407.0	406.7	406.7
7.5°	404.1	403.5	403.0	402.7	402.6	402.1	401.9	401.7	401.3	401.0	400.5
10°	397.3	396.9	396.2	395.9	395.6	395.3	394.6	394.2	394.1	393.8	393.5
12.5°	389.3	388.8	388.1	387.5	387.3	386.8	386.1	385.7	385.7	385.2	385.2
15°	380.9	380.0	378.8	378.2	378.1	377.2	376.7	376.1	375.4	375.1	375.1
17.5°	370.0	368.6	367.5	367.5	366.9	366.1	365.3	364.9	364.4	363.9	363.6
20°	357.2	356.2	355.0	355.0	353.7	353.4	352.6	352.5	351.5	351.6	351.2
22.5°	341.8	341.2	340.5	339.9	339.2	338.4	338.0	338.1	337.7	337.6	337.4
25°	326.2	324.6	323.8	323.5	323.2	322.5	322.3	322.1	322.1	321.7	321.9
27.5°	308.2	307.1	306.0	306.4	305.9	305.4	305.2	304.7	305.0	304.9	305.0
30°	289.8	288.5	287.8	288.0	287.9	286.8	287.3	287.2	287.3	287.3	287.6
32.5°	270.5	269.5	269.4	269.5	268.3	268.4	267.9	268.7	268.8	269.7	269.0
35°	250.9	250.3	249.4	249.2	249.4	249.2	249.2	249.8	249.6	250.5	250.2
37.5°	230.7	230.4	229.5	229.7	229.2	230.2	230.4	230.2	231.1	230.8	230.7
40°	211.0	210.5	210.0	211.1	210.4	209.8	210.8	210.0	210.3	211.1	211.1
42.5°	190.9	190.2	190.2	190.2	190.1	190.1	190.5	190.9	190.6	190.8	191.9
45°	170.7	170.6	170.2	170.5	170.3	171.0	171.0	171.3	171.9	172.4	172.1
47.5°	151.3	151.0	151.4	151.1	151.3	150.8	151.1	152.0	152.6	151.7	152.6
50°	133.0	132.5	132.3	132.7	132.6	132.5	132.7	132.7	132.5	132.5	133.4
52.5°	115.6	115.1	114.7	115.4	114.9	115.1	114.5	114.5	114.8	114.5	114.1
55°	99.4	98.9	98.4	98.7	98.0	97.8	97.3	97.3	96.8	96.6	95.7
57.5°	83.8	83.5	82.2	82.1	82.2	81.3	80.3	79.9	78.8	78.5	78.3
60°	70.0	68.5	67.8	66.9	66.4	66.0	64.8	64.1	62.5	61.5	61.4
62.5°	55.7	55.0	54.1	52.9	52.6	51.2	50.1	48.3	47.5	46.2	44.9
65°	44.1	42.3	41.0	40.4	39.2	38.0	36.7	34.8	33.8	32.3	31.0
67.5°	32.3	30.8	29.1	28.5	27.6	26.0	24.8	23.1	22.3	20.9	20.5
70°	22.1	20.7	19.5	18.6	18.0	16.4	15.2	14.6	13.8	13.5	13.5
72.5°	14.2	12.9	11.5	11.1	10.6	9.7	8.9	8.6	8.9	8.8	8.8
75°	7.9	7.2	6.3	5.8	5.8	5.6	5.4	5.4	5.4	5.4	5.4
77.5°	4.0	3.6	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.5	3.3
80°	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.1	1.9
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1
85°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: LX6C08D010 EX6C089040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	410.9	410.6	410.6	410.5	410.5	410.5	410.5	410.6
5°	406.5	406.3	406.3	406.0	406.0	406.0	406.0	406.0
7.5°	400.5	400.2	400.3	400.1	400.1	400.2	400.1	399.9
10°	393.1	393.0	393.1	393.1	392.8	392.7	392.8	393.0
12.5°	384.7	384.6	384.3	384.5	384.5	384.3	384.2	383.9
15°	375.0	374.9	374.7	374.6	374.5	374.6	374.5	374.2
17.5°	363.6	363.6	363.5	363.3	363.2	362.9	363.0	363.5
20°	351.4	351.2	350.9	351.1	350.5	350.2	350.4	350.8
22.5°	337.3	336.9	337.2	336.7	336.7	336.9	336.7	336.5
25°	322.0	321.4	321.7	321.9	321.9	321.7	321.6	321.7
27.5°	305.0	305.4	305.4	305.2	305.6	305.0	305.3	305.4
30°	287.6	287.2	287.1	287.6	288.5	287.8	287.8	287.9
32.5°	269.7	269.1	269.1	269.4	269.3	269.3	269.8	269.1
35°	250.5	250.7	249.6	250.3	250.6	250.3	250.5	250.5
37.5°	231.1	230.8	230.8	230.8	231.3	231.3	231.5	231.4
40°	212.1	211.5	211.4	211.6	211.1	211.5	211.5	211.1
42.5°	191.5	191.6	192.3	191.6	191.7	191.6	191.3	191.2
45°	172.4	172.8	172.5	172.4	172.5	172.0	172.1	172.5
47.5°	152.2	153.1	152.2	152.8	152.6	152.4	152.1	151.5
50°	133.3	133.6	133.4	133.3	133.2	133.0	132.3	131.9
52.5°	114.0	114.0	114.0	114.0	112.6	113.3	113.0	112.2
55°	95.0	95.5	94.9	94.9	93.9	93.9	93.6	93.8
57.5°	76.8	76.4	76.0	76.0	75.0	74.6	74.2	73.6
60°	59.8	59.4	58.9	58.2	57.2	57.2	56.9	55.8
62.5°	43.8	43.1	42.7	42.2	41.3	40.8	40.4	40.6
65°	30.1	29.4	28.8	28.8	28.8	28.5	28.4	28.4
67.5°	19.8	20.2	19.9	20.2	20.2	19.9	19.8	20.0
70°	13.6	13.6	13.5	13.5	13.5	13.5	13.4	13.5
72.5°	8.8	8.8	8.8	8.9	8.8	8.8	8.9	8.9
75°	5.6	5.6	5.6	5.7	5.6	5.6	5.7	5.6
77.5°	3.3	3.5	3.5	3.5	3.5	3.3	3.5	3.5
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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)