

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: P252453

Luminaire Tested: **LE_6B15D010 EC6B10208027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252453
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: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1488.8 lumens
Efficiency: N/A
Efficacy: 103.4 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

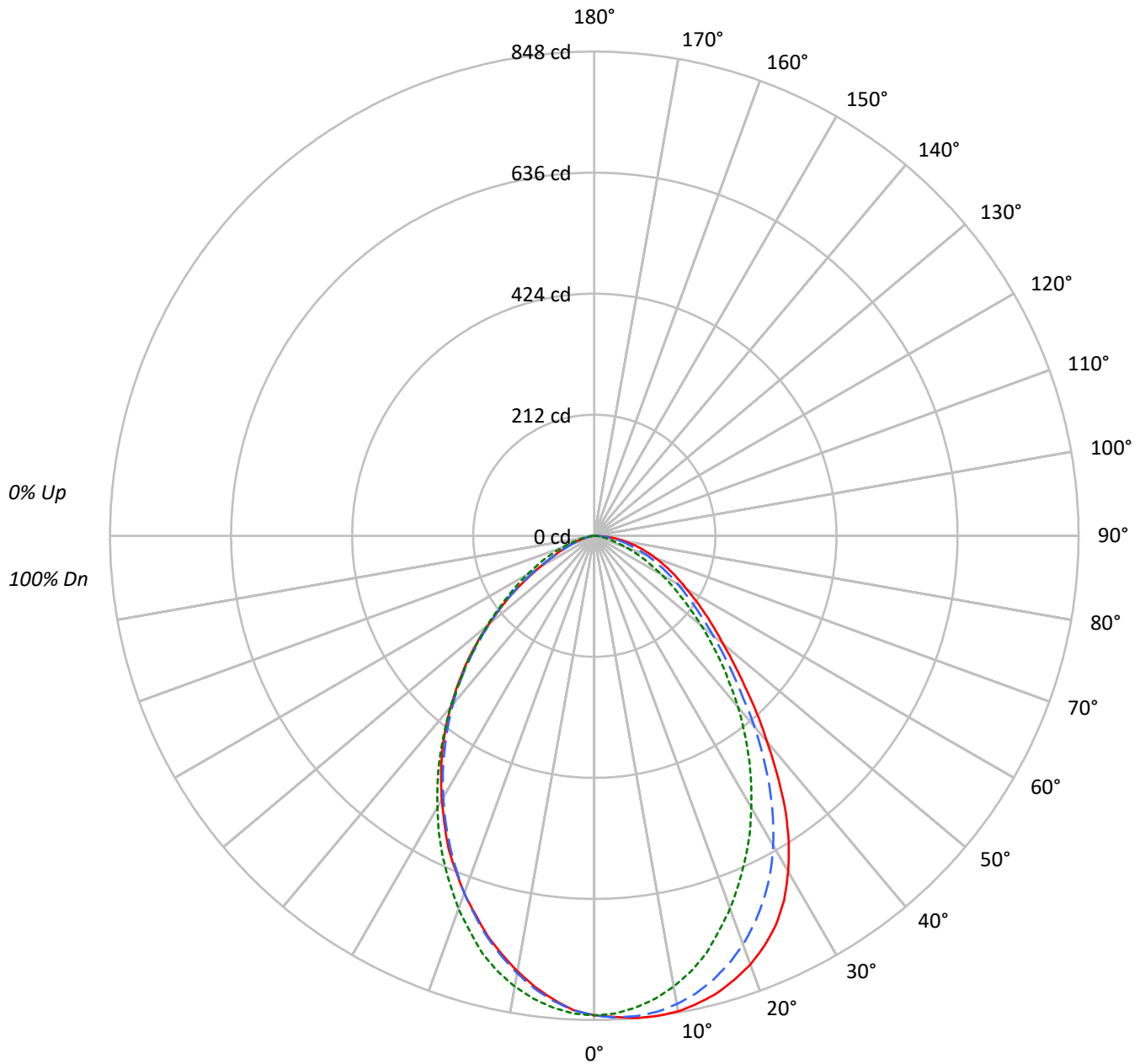
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252453

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1H

Luminous Intensity Polar Plot





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CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	54796	54796	54796
5°	55535	54317	53400
10°	56032	53090	51308
15°	56019	51129	48927
20°	55473	48266	46246
25°	54162	45005	43493
30°	51144	41388	40243
35°	46361	37528	37066
40°	40036	33385	33283
45°	34332	29063	29266
50°	29840	24867	24511
55°	26798	20952	19632
60°	24348	17667	14470
65°	22863	14588	10636
70°	21822	11350	7802
75°	20897	8217	5293
80°	19725	5673	3532
85°	17516	3443	1797



TEST NUMBER: P252453

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	5.3
10°-20°	215.2	14.5
20°-30°	298.7	20.1
30°-40°	309.4	20.8
40°-50°	254.3	17.1
50°-60°	174.7	11.7
60°-70°	100.5	6.7
70°-80°	46.2	3.1
80°-90°	11.3	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°	592.5	39.8
0°-40°	901.9	60.6
0°-60°	1330.8	89.4
0°-90°	1488.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1488.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	840	840	840	840	840	
5°	848	844	829	818	815	81
15°	829	805	757	727	724	234
25°	752	702	625	598	604	344
35°	582	534	471	457	465	361
45°	372	344	315	312	317	290
55°	236	214	184	174	173	212
65°	148	130	94	66	69	147
75°	83	65	33	21	21	88
85°	23	16	5	2	2	26
90°	0	0	0	0	0	



TEST NUMBER: P252453

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9
2.5°	843.4	850.4	845.8	844.5	846.9	846.9	846.9	843.4	845.8	842.2	844.5
5°	848.0	853.9	849.2	846.9	849.2	850.4	846.9	844.5	848.0	843.4	844.5
7.5°	848.0	853.9	849.2	848.0	849.2	849.2	848.0	843.4	845.8	841.0	841.0
10°	845.8	850.4	845.8	843.4	844.5	843.4	843.4	837.5	838.8	832.9	832.9
12.5°	838.8	844.5	838.8	836.4	836.4	836.4	832.9	828.2	829.4	822.4	821.2
15°	829.4	834.0	828.2	825.9	825.9	824.8	822.4	815.4	815.4	808.4	804.9
17.5°	815.4	820.0	815.4	811.9	810.8	808.4	806.0	799.0	796.8	788.5	785.0
20°	799.0	802.5	797.9	794.4	792.0	789.8	785.0	778.0	775.8	767.5	761.8
22.5°	778.0	782.8	775.8	772.2	769.9	766.4	761.8	754.8	751.2	740.8	733.8
25°	752.4	754.8	748.9	745.4	740.8	738.4	734.9	725.5	722.0	710.4	702.2
27.5°	719.8	722.0	715.0	712.8	706.9	704.5	699.9	691.8	687.1	675.4	667.2
30°	678.9	681.2	676.6	673.1	668.4	663.8	660.2	652.1	645.1	633.4	626.4
32.5°	633.4	636.9	632.2	627.6	619.4	620.6	614.8	606.6	600.8	590.2	582.1
35°	582.1	584.4	578.6	577.4	572.8	568.1	562.2	556.4	552.9	541.2	534.2
37.5°	524.9	530.8	524.9	520.2	517.9	514.4	510.9	502.8	500.4	493.4	484.1
40°	470.1	473.6	470.1	465.4	461.9	461.9	457.2	452.6	446.8	439.8	436.2
42.5°	421.1	418.8	417.6	415.2	410.6	409.5	408.2	402.5	399.0	392.0	386.1
45°	372.1	373.2	371.0	369.8	366.2	364.0	361.6	357.0	355.8	348.8	344.1
47.5°	331.2	330.1	327.8	327.8	325.5	323.1	320.8	317.2	316.1	310.2	305.6
50°	294.0	295.1	294.0	292.8	289.2	288.1	285.8	283.5	281.1	275.2	270.6
52.5°	263.6	262.5	261.2	261.2	257.8	256.6	254.2	252.0	249.6	243.8	240.2
55°	235.6	235.6	234.5	233.2	229.8	228.6	227.5	225.1	221.6	217.0	213.5
57.5°	210.0	210.0	208.8	207.6	205.2	205.2	203.0	200.6	198.2	193.6	189.0
60°	186.6	187.8	186.6	185.5	183.1	183.1	182.0	178.5	177.2	171.5	168.0
62.5°	166.8	166.8	166.8	165.6	164.5	162.1	162.1	158.6	156.2	152.8	148.1
65°	148.1	148.1	148.1	147.0	144.6	143.5	142.2	140.0	137.6	134.1	129.5
67.5°	130.6	130.6	130.6	129.5	127.1	126.0	124.9	123.6	120.1	116.6	112.0
70°	114.4	114.4	113.1	112.0	110.9	109.6	108.5	106.1	103.9	99.1	95.6
72.5°	98.0	98.0	98.0	95.6	94.5	94.5	92.1	91.0	88.6	84.0	80.5
75°	82.9	81.6	81.6	80.5	79.4	78.1	77.0	75.9	72.4	70.0	65.4
77.5°	67.6	67.6	66.5	65.4	65.4	64.1	63.0	60.6	59.5	56.0	52.5
80°	52.5	52.5	52.5	52.5	51.4	50.1	50.1	47.9	46.6	43.1	40.9
82.5°	39.6	38.5	38.5	38.5	37.4	36.1	36.1	35.0	33.9	31.5	29.1
85°	23.4	22.1	22.1	22.1	21.0	21.0	19.9	19.9	18.6	16.4	16.4
87.5°	7.0	7.0	8.1	8.1	7.0	7.0	7.0	7.0	7.0	5.9	5.9
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: P252453

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9
2.5°	842.2	845.8	841.0	839.9	844.5	842.2	841.0	838.8	839.9	837.5	834.0
5°	841.0	845.8	839.9	836.4	842.2	838.8	836.4	834.0	834.0	829.4	827.0
7.5°	837.5	839.9	834.0	830.5	834.0	830.5	828.2	824.8	823.5	817.8	814.2
10°	828.2	830.5	823.5	818.9	822.4	817.8	814.2	810.8	808.4	801.4	796.8
12.5°	815.4	816.5	808.4	802.5	804.9	801.4	795.5	790.9	788.5	781.5	775.8
15°	797.9	799.0	789.8	781.5	783.9	779.2	772.2	767.5	764.0	757.0	748.9
17.5°	776.9	775.8	765.2	757.0	758.2	752.4	745.4	738.4	733.8	725.5	719.8
20°	753.5	750.0	738.4	729.0	730.2	723.2	715.0	708.0	702.2	695.2	687.1
22.5°	724.4	719.8	709.2	697.6	698.8	692.9	681.2	675.4	669.6	660.2	653.2
25°	692.9	685.9	675.4	663.8	663.8	656.8	647.4	640.4	634.6	625.2	617.1
27.5°	655.6	652.1	638.1	628.8	627.6	620.6	612.4	604.2	597.2	589.1	580.9
30°	614.8	608.9	598.4	587.9	585.6	579.8	571.6	562.2	557.6	549.4	542.4
32.5°	571.6	565.8	554.1	543.6	542.4	537.8	530.8	521.4	516.8	510.9	506.2
35°	522.6	520.2	508.6	500.4	500.4	495.8	488.8	480.6	477.1	471.2	465.4
37.5°	475.9	472.4	461.9	454.9	454.9	449.1	442.1	438.6	435.1	430.4	426.9
40°	426.9	424.6	416.5	409.5	410.6	406.0	401.2	396.6	394.2	392.0	388.5
42.5°	381.5	379.1	373.2	367.5	367.5	364.0	359.2	355.8	353.5	350.0	348.8
45°	340.6	337.1	332.5	326.6	326.6	323.1	320.8	318.5	317.2	315.0	311.5
47.5°	301.0	298.6	294.0	288.1	288.1	288.1	283.5	280.0	280.0	277.6	276.5
50°	267.1	263.6	260.1	255.5	255.5	253.1	249.6	246.1	246.1	245.0	242.6
52.5°	235.6	233.2	228.6	224.0	224.0	221.6	218.1	217.0	215.8	212.2	211.1
55°	208.8	206.5	203.0	197.1	196.0	194.8	191.2	189.0	187.8	184.2	184.2
57.5°	184.2	182.0	176.1	172.6	171.5	169.1	165.6	163.2	162.1	159.8	157.5
60°	163.2	159.8	155.1	150.5	149.2	147.0	143.5	141.1	140.0	135.4	133.0
62.5°	143.5	140.0	135.4	130.6	129.5	127.1	122.5	120.1	117.9	113.1	110.9
65°	124.9	121.4	116.6	112.0	109.6	108.5	103.9	100.4	98.0	94.5	89.9
67.5°	107.4	103.9	99.1	93.4	93.4	89.9	86.4	82.9	79.4	75.9	72.4
70°	91.0	87.5	82.9	78.1	77.0	74.6	71.1	66.5	64.1	59.5	56.0
72.5°	75.9	72.4	67.6	63.0	61.9	59.5	56.0	51.4	47.9	44.4	40.9
75°	61.9	58.4	53.6	50.1	49.0	46.6	43.1	38.5	35.0	32.6	29.1
77.5°	49.0	45.5	42.0	38.5	37.4	35.0	31.5	29.1	25.6	23.4	19.9
80°	37.4	35.0	31.5	29.1	28.0	25.6	23.4	19.9	17.5	15.1	14.0
82.5°	26.9	24.5	22.1	18.6	18.6	16.4	15.1	12.9	10.5	9.4	8.1
85°	15.1	12.9	11.6	10.5	9.4	9.4	8.1	7.0	5.9	4.6	4.6
87.5°	4.6	4.6	3.5	3.5	3.5	3.5	2.4	2.4	2.4	2.4	2.4
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: P252453

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9
2.5°	834.0	835.2	832.9	835.2	832.9	834.0	831.8	834.0	831.8	834.0	829.4
5°	825.9	825.9	822.4	824.8	822.4	823.5	818.9	820.0	817.8	820.0	815.4
7.5°	811.9	813.0	807.2	809.5	806.0	806.0	802.5	803.8	800.2	801.4	797.9
10°	795.5	794.4	788.5	790.9	786.2	786.2	782.8	782.8	778.0	779.2	774.5
12.5°	772.2	771.0	764.0	766.4	761.8	761.8	758.2	758.2	753.5	755.9	751.2
15°	745.4	744.2	737.2	738.4	733.8	733.8	729.0	730.2	726.8	729.0	724.4
17.5°	715.0	713.9	706.9	708.0	702.2	703.4	699.9	698.8	696.4	697.6	694.1
20°	683.6	681.2	674.2	675.4	673.1	669.6	667.2	668.4	666.1	668.4	664.9
22.5°	650.9	646.2	640.4	640.4	638.1	638.1	634.6	636.9	632.2	635.8	633.4
25°	613.6	610.1	605.4	607.8	603.1	603.1	599.6	600.8	598.4	600.8	598.4
27.5°	577.4	575.1	568.1	570.4	566.9	568.1	564.6	565.8	564.6	566.9	564.6
30°	538.9	537.8	533.1	533.1	531.9	530.8	529.6	529.6	528.4	531.9	529.6
32.5°	502.8	499.2	494.6	498.1	492.2	495.8	493.4	495.8	493.4	495.8	494.6
35°	465.4	464.2	458.4	459.6	458.4	458.4	457.2	457.2	457.2	460.8	460.8
37.5°	425.8	424.6	421.1	422.2	420.0	418.8	418.8	421.1	421.1	423.4	423.4
40°	387.2	388.5	385.0	385.0	383.8	383.8	383.8	386.1	385.0	387.2	386.1
42.5°	348.8	348.8	345.2	346.5	345.2	346.5	346.5	348.8	348.8	350.0	348.8
45°	312.6	312.6	311.5	312.6	310.2	311.5	310.2	312.6	311.5	312.6	312.6
47.5°	276.5	276.5	276.5	275.2	275.2	275.2	275.2	275.2	274.1	276.5	275.2
50°	242.6	243.8	242.6	242.6	241.5	242.6	241.5	241.5	239.1	240.2	240.2
52.5°	212.2	212.2	210.0	210.0	210.0	208.8	208.8	208.8	207.6	207.6	205.2
55°	183.1	183.1	180.8	180.8	179.6	178.5	177.2	177.2	173.8	173.8	170.2
57.5°	156.2	155.1	151.6	151.6	149.2	148.1	147.0	145.8	143.5	141.1	140.0
60°	131.9	129.5	127.1	126.0	123.6	121.4	119.0	116.6	114.4	113.1	112.0
62.5°	108.5	105.0	102.6	101.5	99.1	95.6	93.4	91.0	88.6	87.5	85.1
65°	87.5	84.0	80.5	79.4	77.0	74.6	71.1	68.9	66.5	65.4	65.4
67.5°	68.9	65.4	60.6	60.6	58.4	56.0	53.6	51.4	50.1	51.4	51.4
70°	51.4	49.0	45.5	44.4	42.0	39.6	38.5	38.5	38.5	39.6	38.5
72.5°	38.5	35.0	32.6	31.5	30.4	29.1	29.1	29.1	28.0	29.1	29.1
75°	26.9	24.5	22.1	22.1	21.0	21.0	21.0	21.0	21.0	21.0	21.0
77.5°	18.6	16.4	15.1	15.1	15.1	14.0	14.0	14.0	14.0	14.0	14.0
80°	11.6	11.6	10.5	10.5	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	7.0	7.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
85°	3.5	3.5	3.5	3.5	3.5	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.1	1.1	1.1	1.1	1.1	2.4	2.4	2.4	2.4	2.4	2.4
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: P252453

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	839.9	839.9	839.9	839.9	839.9	839.9	839.9	839.9
2.5°	829.4	832.9	828.2	831.8	830.5	829.4	827.0	831.8
5°	815.4	816.5	811.9	816.5	815.4	813.0	810.8	815.4
7.5°	795.5	799.0	793.2	797.9	796.8	794.4	792.0	796.8
10°	773.4	776.9	772.2	775.8	775.8	773.4	769.9	774.5
12.5°	748.9	751.2	746.5	751.2	750.0	747.8	746.5	750.0
15°	722.0	725.5	720.9	724.4	723.2	722.0	720.9	724.4
17.5°	692.9	696.4	692.9	696.4	696.4	692.9	691.8	694.1
20°	663.8	666.1	662.6	666.1	664.9	664.9	662.6	666.1
22.5°	631.1	634.6	632.2	634.6	633.4	633.4	632.2	634.6
25°	598.4	601.9	598.4	601.9	600.8	600.8	598.4	604.2
27.5°	565.8	568.1	564.6	569.2	568.1	565.8	566.9	568.1
30°	530.8	533.1	530.8	534.2	534.2	534.2	531.9	534.2
32.5°	495.8	499.2	495.8	499.2	498.1	498.1	496.9	499.2
35°	460.8	461.9	459.6	463.1	463.1	464.2	461.9	465.4
37.5°	424.6	425.8	424.6	425.8	428.1	424.6	426.9	428.1
40°	387.2	389.6	388.5	389.6	389.6	390.8	389.6	390.8
42.5°	350.0	352.2	350.0	353.5	352.2	352.2	353.5	353.5
45°	311.5	315.0	312.6	315.0	316.1	315.0	315.0	317.2
47.5°	275.2	277.6	276.5	277.6	277.6	277.6	277.6	280.0
50°	239.1	240.2	240.2	241.5	241.5	242.6	240.2	241.5
52.5°	203.0	205.2	205.2	205.2	204.1	205.2	205.2	205.2
55°	170.2	171.5	169.1	171.5	171.5	170.2	170.2	172.6
57.5°	138.9	138.9	138.9	138.9	138.9	137.6	138.9	138.9
60°	109.6	110.9	109.6	109.6	109.6	109.6	108.5	110.9
62.5°	85.1	85.1	84.0	85.1	85.1	85.1	86.4	86.4
65°	66.5	67.6	66.5	67.6	67.6	67.6	67.6	68.9
67.5°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
70°	39.6	39.6	39.6	40.9	39.6	39.6	39.6	40.9
72.5°	29.1	29.1	29.1	29.1	29.1	29.1	30.4	30.4
75°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
77.5°	14.0	14.0	14.0	15.1	14.0	15.1	14.0	14.0
80°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	1.1	1.1	1.1	1.1
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)