

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: P252232

Luminaire Tested: **LE_6B10D010 EC6B10208027 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208027 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 1175.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

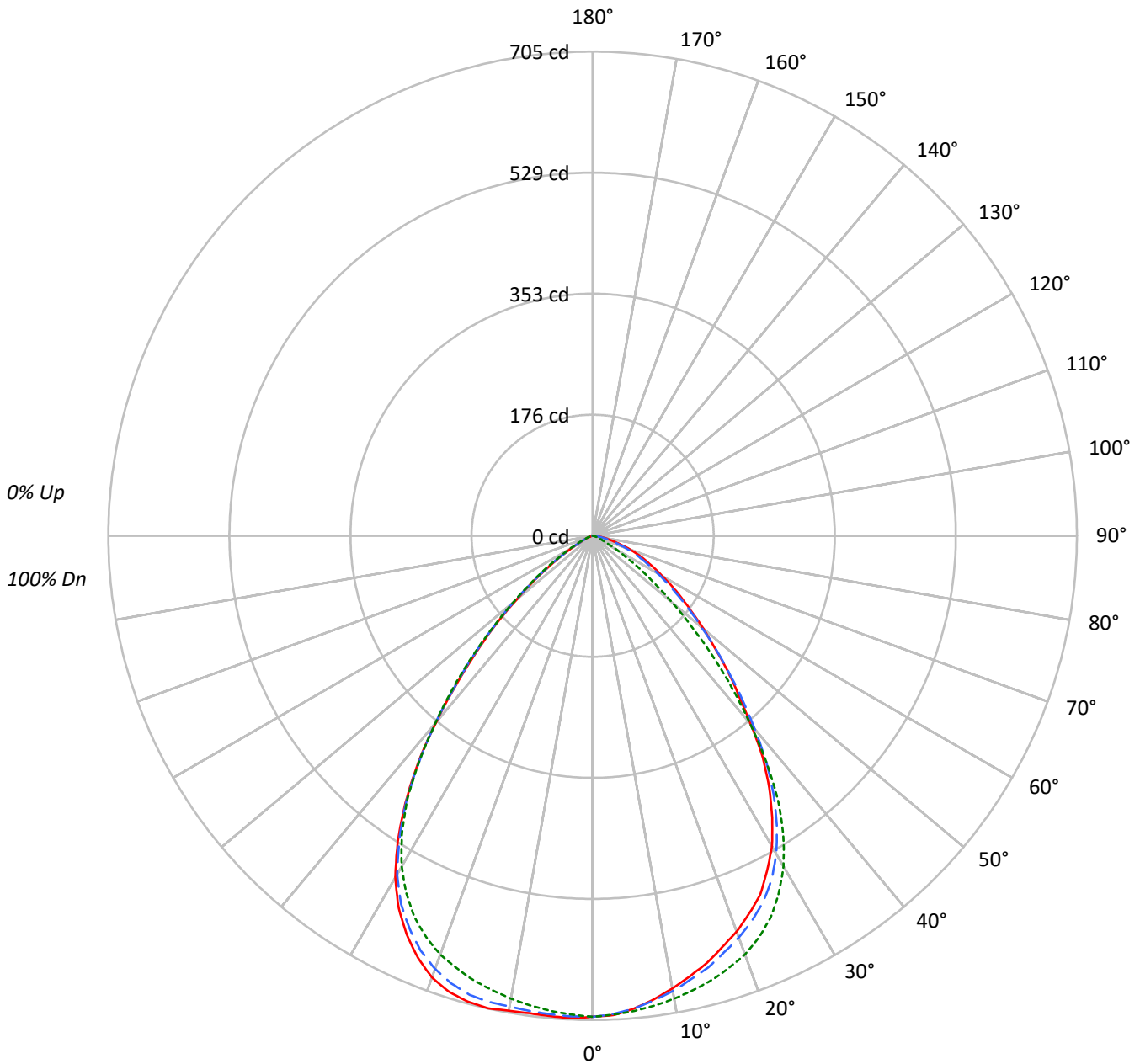
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252232

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBSW1H

Luminous Intensity Polar Plot





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CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBSW1H

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45695	45695	45695
5°	45260	45483	45980
10°	44326	45326	46512
15°	43484	45246	47421
20°	42573	45045	47502
25°	41528	44141	46099
30°	39316	41870	43271
35°	35696	37520	37863
40°	30472	30327	30183
45°	25603	22706	22005
50°	21375	15367	14595
55°	17983	9429	8554
60°	15240	4971	4306
65°	13183	2609	2084
70°	10968	1621	1125
75°	8091	1059	630
80°	6349	676	338
85°	5090	674	0



TEST NUMBER: P252232

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	5.6
10°-20°	189.0	16.1
20°-30°	279.1	23.8
30°-40°	287.6	24.5
40°-50°	198.7	16.9
50°-60°	97.9	8.3
60°-70°	39.7	3.4
70°-80°	14.1	1.2
80°-90°	2.9	0.3
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°	534.1	45.5
0°-40°	821.7	69.9
0°-60°	1118.3	95.2
0°-90°	1175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	700	700	700	700	700	
5°	691	691	694	700	702	65
15°	644	650	670	692	702	181
25°	577	588	613	631	640	264
35°	448	459	471	474	475	278
45°	278	279	246	243	238	214
55°	158	152	83	78	75	143
65°	85	77	17	14	14	85
75°	32	27	4	2	2	36
85°	7	5	1	0	0	8
90°	0	0	0	0	0	



TEST NUMBER: P252232

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	698.6	696.1	697.9	694.5	698.6	694.5	695.2	696.1	695.2	696.1	697.0
5°	691.1	688.5	691.1	686.9	691.1	688.5	688.5	689.4	689.4	690.2	691.1
7.5°	680.9	678.4	680.9	676.8	681.8	679.2	679.2	680.9	680.1	680.9	682.6
10°	669.1	665.8	668.2	665.8	670.8	667.4	669.1	669.1	669.1	671.6	673.2
12.5°	656.4	653.0	656.4	652.1	657.2	654.8	655.5	658.1	658.9	660.6	661.5
15°	643.8	639.5	641.1	638.6	643.8	641.1	642.0	645.4	645.4	647.9	650.5
17.5°	627.6	624.2	627.6	624.2	628.5	626.8	628.5	631.0	631.0	633.5	636.1
20°	613.2	609.9	612.4	609.9	615.0	612.4	613.2	616.6	617.5	620.0	622.5
22.5°	595.5	593.0	594.6	592.1	597.1	595.5	596.4	599.8	600.5	602.2	606.5
25°	576.9	571.8	574.4	572.6	577.8	575.1	576.9	580.2	582.0	584.5	587.9
27.5°	549.8	547.2	549.0	549.0	553.2	550.6	551.5	554.9	557.4	560.0	564.2
30°	521.9	517.6	519.4	520.2	523.6	521.9	523.6	527.0	527.9	531.2	534.6
32.5°	486.4	484.6	488.0	486.4	488.0	488.0	488.9	491.5	493.1	494.9	499.0
35°	448.2	444.9	448.2	446.6	450.9	448.2	450.9	453.4	453.4	456.8	459.2
37.5°	406.9	402.6	404.4	404.4	406.0	405.1	405.1	409.4	410.2	412.8	415.4
40°	357.8	356.1	359.5	358.6	359.5	359.5	360.4	362.9	364.6	365.4	366.2
42.5°	313.9	314.6	315.5	315.5	315.5	315.5	315.5	318.9	318.0	320.6	321.4
45°	277.5	274.0	275.8	274.9	277.5	274.9	277.5	280.0	278.2	280.9	279.1
47.5°	240.2	240.2	240.2	239.4	241.1	240.2	241.9	242.8	242.8	242.8	241.9
50°	210.6	208.1	208.9	208.9	209.8	208.9	210.6	211.5	211.5	209.8	206.4
52.5°	181.9	181.0	181.0	182.8	182.8	181.9	181.9	181.9	181.9	179.4	177.6
55°	158.1	156.5	157.4	157.4	157.4	157.4	158.1	157.4	157.4	154.8	152.2
57.5°	137.0	135.4	135.4	135.4	136.1	135.4	135.4	135.4	134.5	132.0	128.6
60°	116.8	115.9	116.8	116.8	117.6	116.8	116.8	116.8	115.0	112.5	109.1
62.5°	99.8	99.8	99.8	100.6	100.6	99.8	99.8	99.0	98.1	94.8	91.4
65°	85.4	84.6	85.4	85.4	86.2	86.2	85.4	84.6	83.8	80.4	77.0
67.5°	71.0	70.2	71.0	71.0	71.9	71.0	71.0	71.0	68.5	66.9	63.5
70°	57.5	56.6	56.6	56.6	57.5	55.9	56.6	56.6	55.0	52.5	49.0
72.5°	44.0	44.0	44.0	44.0	44.0	44.0	43.1	43.1	41.5	38.9	37.2
75°	32.1	32.1	33.0	33.0	32.1	32.1	32.1	31.2	30.5	28.8	27.1
77.5°	23.6	23.6	23.6	23.6	22.9	22.9	22.9	22.0	21.1	20.2	18.6
80°	16.9	16.9	16.9	16.1	16.9	16.1	16.1	16.1	14.4	13.5	12.8
82.5°	11.9	11.0	11.0	11.0	11.0	11.0	11.0	10.1	10.1	9.2	8.5
85°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.9	5.1	5.1
87.5°	3.4	4.2	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4	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: P252232

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	697.0	697.0	698.6	696.1	700.4	697.9	697.0	701.2	698.6	697.9	699.5
5°	691.1	691.9	692.8	691.1	695.2	692.8	692.8	697.0	695.2	694.5	697.0
7.5°	683.5	684.2	686.0	685.1	688.5	686.9	687.6	691.9	690.2	690.2	692.8
10°	674.1	675.9	677.5	677.5	681.8	680.1	680.1	685.1	683.5	684.2	687.6
12.5°	663.1	665.8	668.2	669.1	673.2	670.8	671.6	677.5	676.8	677.5	680.9
15°	651.2	654.8	657.2	657.2	662.2	659.8	662.2	668.2	666.5	669.9	674.1
17.5°	637.8	641.1	644.5	645.4	650.5	648.8	652.1	658.1	658.1	659.8	664.9
20°	625.1	629.4	631.0	633.5	638.6	637.8	639.5	646.2	646.2	648.8	653.9
22.5°	608.1	612.4	615.8	618.4	622.5	622.5	625.1	631.0	631.0	632.8	637.8
25°	589.6	594.6	597.1	599.8	604.0	603.1	605.6	610.8	611.5	613.2	618.4
27.5°	565.9	570.1	573.5	575.1	581.1	577.8	580.2	586.1	585.4	587.0	591.2
30°	536.2	540.5	543.9	543.9	549.0	549.0	551.5	554.0	554.0	555.8	559.1
32.5°	501.6	506.6	506.6	509.2	512.6	509.2	512.6	516.0	514.2	516.9	519.4
35°	461.9	464.4	465.2	465.2	467.8	466.9	466.1	468.6	466.9	471.1	473.6
37.5°	413.6	417.0	415.4	417.0	416.1	413.6	413.6	417.9	414.5	415.4	417.9
40°	367.1	367.1	366.2	362.0	362.9	360.4	359.5	360.4	357.0	356.1	359.5
42.5°	318.9	318.0	315.5	309.6	310.4	306.2	302.9	302.9	301.1	300.2	301.1
45°	275.8	273.2	269.0	262.2	260.5	257.1	250.4	248.6	246.1	246.1	247.0
47.5°	236.0	232.6	225.9	218.2	214.0	209.8	203.0	200.5	196.2	194.5	196.2
50°	203.0	197.1	188.6	177.6	173.4	168.4	161.5	157.4	153.1	151.4	150.6
52.5°	172.5	164.1	155.6	142.1	138.8	133.6	124.4	120.1	115.9	112.5	112.5
55°	146.4	138.8	126.9	114.2	109.1	104.0	94.8	88.9	84.6	82.9	81.2
57.5°	122.6	114.2	103.2	89.6	84.6	79.5	70.2	64.2	60.0	57.5	55.9
60°	103.2	93.9	82.9	71.0	65.1	60.0	50.8	44.9	40.6	38.1	36.4
62.5°	84.6	77.0	66.0	55.0	49.9	44.9	37.2	31.2	27.1	25.4	22.9
65°	71.0	63.5	53.2	44.0	39.8	34.6	27.9	22.9	19.5	16.9	15.2
67.5°	57.5	51.6	43.1	34.6	30.5	27.1	21.1	16.9	13.5	11.9	11.0
70°	45.6	39.8	33.0	26.2	23.6	20.2	16.1	11.9	10.1	8.5	7.6
72.5°	33.9	29.6	24.5	19.5	16.9	15.2	11.0	9.2	6.8	5.9	5.1
75°	24.5	21.1	17.8	13.5	11.9	11.0	8.5	5.9	5.1	4.2	3.4
77.5°	16.9	15.2	11.9	9.2	8.5	7.6	5.9	4.2	3.4	2.5	2.5
80°	11.0	9.2	7.6	5.9	5.9	5.1	3.4	2.5	2.5	1.8	1.8
82.5°	6.8	5.9	5.1	4.2	3.4	3.4	2.5	1.8	1.8	0.9	0.9
85°	4.2	3.4	2.5	2.5	1.8	1.8	1.8	0.9	0.9	0.9	0.9
87.5°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
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: P252232

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	699.5	699.5	701.2	698.6	700.4	700.4	702.1	698.6	700.4	701.2	702.9
5°	696.1	697.0	698.6	697.9	698.6	698.6	700.4	696.1	699.5	699.5	702.1
7.5°	692.8	692.8	694.5	693.6	695.2	696.1	697.9	694.5	697.9	697.9	700.4
10°	688.5	688.5	691.1	690.2	692.8	693.6	696.1	692.8	696.1	697.0	699.5
12.5°	682.6	683.5	686.0	686.0	688.5	690.2	692.8	691.1	695.2	696.1	699.5
15°	675.9	677.5	680.9	680.1	682.6	685.1	688.5	686.0	691.9	693.6	697.0
17.5°	667.4	669.1	671.6	671.6	674.1	675.9	680.1	678.4	683.5	684.2	688.5
20°	654.8	657.2	660.6	659.8	662.2	664.0	667.4	665.8	670.8	672.5	676.8
22.5°	639.5	641.1	643.8	643.8	646.2	647.9	651.2	648.8	653.9	654.8	658.1
25°	619.1	620.9	622.5	623.4	625.9	626.8	628.5	626.8	631.0	631.9	636.1
27.5°	593.0	593.8	596.4	596.4	598.0	598.9	601.4	598.0	604.0	604.0	606.5
30°	561.6	560.8	564.2	562.5	564.2	564.2	566.8	565.0	569.2	567.6	570.1
32.5°	520.2	521.9	521.9	520.2	523.6	522.8	522.8	521.0	523.6	524.4	526.1
35°	472.0	474.5	474.5	475.4	476.2	473.6	474.5	469.5	473.6	474.5	475.4
37.5°	419.5	417.0	418.8	416.1	420.4	415.4	415.4	411.9	415.4	415.4	416.1
40°	359.5	358.6	360.4	358.6	357.8	357.0	355.2	352.8	356.1	354.4	357.0
42.5°	302.9	302.0	302.0	300.2	299.4	299.4	297.8	296.0	295.2	295.2	299.4
45°	244.5	246.1	244.5	243.6	245.2	243.6	244.5	241.1	242.8	241.1	242.8
47.5°	195.4	196.2	194.5	192.9	195.4	192.9	192.9	190.4	193.8	193.8	192.0
50°	151.4	150.6	148.9	150.6	149.8	149.8	149.8	147.1	148.9	146.4	148.0
52.5°	111.6	110.8	110.8	110.0	110.8	110.0	110.0	109.1	109.1	108.2	109.1
55°	81.2	80.4	78.6	78.6	78.6	79.5	78.6	77.9	77.9	77.0	77.9
57.5°	55.0	53.2	53.2	53.2	53.2	52.5	52.5	51.6	52.5	51.6	52.5
60°	35.5	35.5	33.9	33.9	33.9	33.9	33.9	33.0	33.9	33.9	33.9
62.5°	22.0	22.0	21.1	20.2	21.1	20.2	20.2	20.2	21.1	20.2	21.1
65°	14.4	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
67.5°	10.1	9.2	9.2	9.2	9.2	9.2	9.2	8.5	9.2	9.2	9.2
70°	6.8	6.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



TEST NUMBER: P252232

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	700.4	701.2	699.5	700.4	698.6	700.4	701.2	702.9
5°	698.6	699.5	697.9	699.5	697.9	699.5	700.4	702.1
7.5°	697.0	698.6	697.0	698.6	697.0	698.6	699.5	701.2
10°	697.0	699.5	697.9	700.4	697.9	699.5	701.2	702.1
12.5°	697.0	699.5	698.6	700.4	699.5	701.2	702.9	704.6
15°	695.2	697.9	696.1	698.6	697.9	698.6	702.1	702.1
17.5°	686.0	688.5	688.5	690.2	690.2	692.8	694.5	696.1
20°	674.1	676.8	675.9	678.4	678.4	680.9	682.6	684.2
22.5°	656.4	659.8	658.9	661.5	660.6	662.2	665.8	664.9
25°	633.5	637.8	636.9	638.6	637.8	637.8	639.5	640.4
27.5°	605.6	608.1	607.4	609.0	607.4	609.0	610.8	611.5
30°	569.2	571.0	570.1	571.0	570.1	571.8	572.6	574.4
32.5°	525.2	527.9	525.2	527.0	526.1	526.1	529.5	527.9
35°	472.9	473.6	474.5	474.5	472.9	473.6	475.4	475.4
37.5°	414.5	418.8	413.6	416.1	415.4	415.4	415.4	417.9
40°	353.6	354.4	352.8	352.8	352.8	351.9	355.2	354.4
42.5°	296.0	296.9	296.0	293.5	294.4	294.4	296.9	293.5
45°	240.2	241.9	241.1	241.1	239.4	239.4	240.2	238.5
47.5°	190.4	192.0	189.5	190.4	188.6	190.4	189.5	191.1
50°	144.6	146.4	145.5	146.4	146.4	144.6	147.1	143.8
52.5°	108.2	109.1	108.2	107.4	106.6	106.6	108.2	107.4
55°	77.0	76.1	76.1	76.1	77.0	77.0	76.1	75.2
57.5°	51.6	51.6	50.8	50.8	51.6	49.9	50.8	49.9
60°	33.0	33.0	33.0	33.0	32.1	33.0	33.0	33.0
62.5°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
65°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
67.5°	8.5	9.2	9.2	9.2	8.5	8.5	8.5	8.5
70°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)