

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: P252670

Luminaire Tested: **LE_6B15D010 EC6B10209040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252670
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_6B15D010 EC6B10209040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1485.0 lumens
Efficiency: N/A
Efficacy: 103.1 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

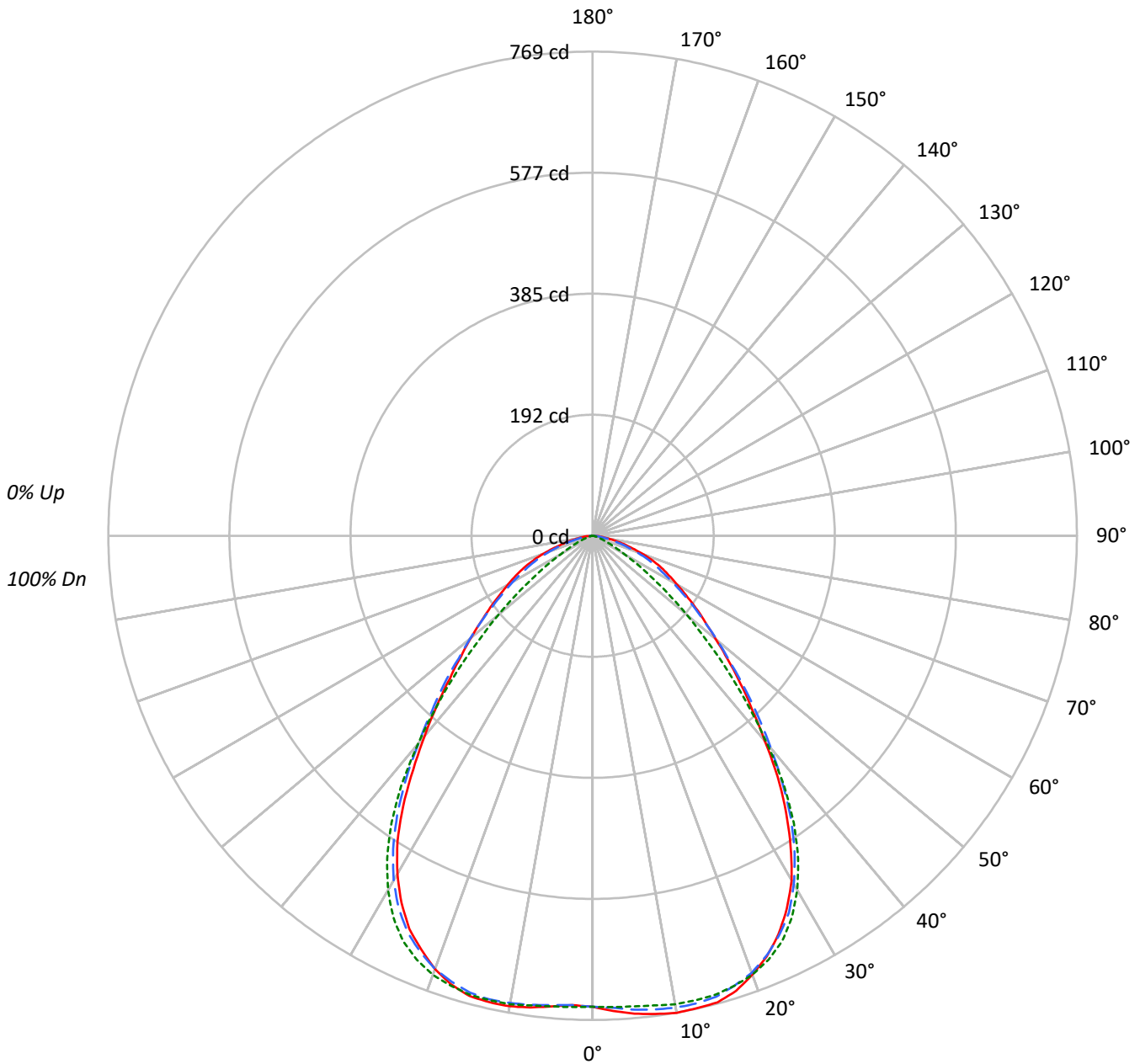
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252670

CATALOG NUMBER: LE_6B15D010 EC6B10209040 6LBDW1H

Luminous Intensity Polar Plot





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CATALOG NUMBER: LE_6B15D010 EC6B10209040 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°	48807	48807	48807
5°	49897	49130	49130
10°	50970	50056	50268
15°	51818	50960	51102
20°	51508	51508	50835
25°	50282	51189	49591
30°	47596	48952	46714
35°	42649	44330	41805
40°	36229	36689	35335
45°	30650	28030	29580
50°	25882	19771	25567
55°	22749	12751	22510
60°	20159	7594	20290
65°	18617	4569	18617
70°	16138	2632	15737
75°	12805	1613	11999
80°	9543	1165	9167
85°	8683	749	7935



TEST NUMBER: P252670

CATALOG NUMBER: LE_6B15D010 EC6B10209040 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	4.9
10°-20°	213.2	14.4
20°-30°	320.6	21.6
30°-40°	337.1	22.7
40°-50°	251.8	17.0
50°-60°	156.8	10.6
60°-70°	89.2	6.0
70°-80°	36.7	2.5
80°-90°	7.6	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°	605.8	40.8
0°-40°	942.9	63.5
0°-60°	1351.5	91.0
0°-90°	1485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1485.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	748	748	748	748	748	
5°	762	756	750	748	750	73
15°	767	758	754	751	757	216
25°	698	700	711	695	689	320
35°	536	549	557	541	525	332
45°	332	340	304	333	321	257
55°	200	196	112	193	198	180
65°	121	108	30	108	121	119
75°	51	40	6	39	48	55
85°	12	7	1	6	11	13
90°	0	0	0	0	0	



TEST NUMBER: P252670

CATALOG NUMBER: LE_6B15D010 EC6B10209040 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1
2.5°	755.6	754.5	755.6	753.5	752.4	752.4	753.5	751.4	750.2	751.4	750.2
5°	761.9	759.9	760.9	759.9	757.8	757.8	758.8	755.6	755.6	756.6	755.6
7.5°	766.1	766.1	766.1	764.0	763.0	761.9	764.0	760.9	759.9	759.9	758.8
10°	769.4	768.2	769.4	767.2	765.1	764.0	766.1	764.0	761.9	764.0	760.9
12.5°	768.2	768.2	768.2	767.2	765.1	764.0	766.1	763.0	761.9	763.0	760.9
15°	767.2	764.0	765.1	764.0	760.9	760.9	761.9	758.8	756.6	759.9	757.8
17.5°	757.8	755.6	756.6	754.5	752.4	751.4	752.4	751.4	749.2	751.4	749.2
20°	741.9	741.9	742.9	740.8	738.6	737.6	739.8	737.6	735.5	738.6	738.6
22.5°	722.8	722.8	722.8	721.8	720.6	720.6	720.6	719.6	718.5	720.6	721.8
25°	698.5	697.4	698.5	699.5	698.5	697.4	698.5	698.5	696.4	700.5	700.5
27.5°	667.8	667.8	669.9	668.8	668.8	667.8	669.9	669.9	668.8	672.0	675.1
30°	631.8	629.6	631.8	631.8	632.9	632.9	633.9	633.9	633.9	637.0	639.1
32.5°	585.2	586.2	589.5	588.4	587.4	590.5	590.5	592.6	593.6	595.8	596.9
35°	535.5	536.5	536.5	537.6	539.8	537.6	542.9	541.9	542.9	547.1	549.2
37.5°	482.5	479.4	484.6	482.5	483.6	483.6	485.8	486.8	490.0	495.2	495.2
40°	425.4	426.5	428.6	429.6	430.8	430.8	430.8	433.9	434.9	441.2	440.2
42.5°	375.6	375.6	377.8	378.9	378.9	378.9	378.9	382.0	384.1	386.2	388.4
45°	332.2	329.1	331.2	331.2	333.4	332.2	334.4	336.5	337.6	340.8	339.8
47.5°	291.0	290.0	291.0	292.1	291.0	292.1	293.1	294.2	295.2	295.2	295.2
50°	255.0	255.0	256.1	257.1	257.1	257.1	257.1	258.2	258.2	260.4	258.2
52.5°	225.4	226.5	226.5	225.4	226.5	226.5	227.5	227.5	226.5	226.5	223.2
55°	200.0	199.0	200.0	199.0	200.0	200.0	199.0	199.0	197.9	196.9	195.8
57.5°	175.6	175.6	175.6	175.6	174.6	175.6	174.6	173.5	173.5	171.4	168.2
60°	154.5	154.5	154.5	154.5	154.5	153.5	154.5	153.5	151.4	149.2	145.0
62.5°	136.5	135.5	136.5	135.5	135.5	134.4	134.4	133.4	131.2	129.1	124.9
65°	120.6	121.8	120.6	120.6	119.6	118.5	118.5	117.5	114.2	112.1	108.0
67.5°	103.8	102.6	102.6	102.6	101.6	101.6	101.6	99.5	97.4	94.1	90.0
70°	84.6	84.6	84.6	83.6	83.6	82.5	82.5	81.5	79.4	77.2	72.0
72.5°	66.6	66.6	66.6	64.5	65.6	64.5	64.5	62.4	61.4	58.2	55.0
75°	50.8	50.8	49.8	49.8	48.6	47.6	47.6	46.6	45.5	43.4	40.2
77.5°	37.0	37.0	37.0	36.0	34.9	33.9	33.9	32.8	31.8	30.8	28.6
80°	25.4	25.4	25.4	25.4	24.4	23.2	23.2	22.2	22.2	21.1	19.0
82.5°	16.9	16.9	16.9	16.9	15.9	15.9	15.9	14.9	13.8	13.8	11.6
85°	11.6	11.6	10.6	10.6	10.6	10.6	9.5	9.5	8.5	7.4	7.4
87.5°	6.4	6.4	6.4	6.4	5.2	5.2	5.2	5.2	4.2	4.2	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: P252670

CATALOG NUMBER: LE_6B15D010 EC6B10209040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1
2.5°	753.5	753.5	752.4	749.2	750.2	749.2	750.2	749.2	746.0	749.2	746.0
5°	757.8	758.8	756.6	752.4	753.5	752.4	752.4	751.4	748.1	750.2	748.1
7.5°	761.9	760.9	759.9	755.6	756.6	755.6	755.6	753.5	750.2	752.4	749.2
10°	764.0	764.0	761.9	757.8	757.8	756.6	757.8	756.6	752.4	755.6	753.5
12.5°	764.0	763.0	763.0	757.8	758.8	757.8	758.8	756.6	753.5	755.6	754.5
15°	760.9	760.9	759.9	754.5	755.6	755.6	756.6	754.5	751.4	754.5	752.4
17.5°	754.5	754.5	753.5	749.2	751.4	751.4	752.4	750.2	747.1	749.2	749.2
20°	741.9	742.9	742.9	739.8	741.9	741.9	742.9	741.9	740.8	741.9	739.8
22.5°	727.0	729.1	729.1	726.0	728.1	728.1	731.2	730.1	728.1	729.1	728.1
25°	704.8	706.9	709.0	706.9	709.0	709.0	712.2	711.1	709.0	711.1	708.0
27.5°	679.4	680.5	682.6	680.5	683.6	682.6	685.8	684.6	681.5	684.6	683.6
30°	643.4	647.6	650.9	647.6	650.9	650.9	652.9	651.9	650.9	649.8	649.8
32.5°	603.2	607.4	607.4	606.4	608.5	608.5	609.5	607.4	606.4	607.4	608.5
35°	553.5	555.6	557.8	556.6	557.8	558.8	557.8	558.8	555.6	556.6	556.6
37.5°	499.5	501.6	501.6	498.4	500.5	500.5	498.4	498.4	496.4	498.4	494.2
40°	442.4	440.2	441.2	439.1	437.0	437.0	436.0	431.8	429.6	430.8	431.8
42.5°	386.2	386.2	383.1	377.8	372.5	372.5	369.4	367.2	363.0	365.1	364.0
45°	338.6	333.4	329.1	320.6	317.5	315.4	310.1	304.8	302.6	303.8	302.6
47.5°	293.1	288.9	278.4	266.6	263.5	260.4	254.0	247.6	245.5	243.4	243.4
50°	255.0	247.6	236.0	223.2	218.0	212.8	204.2	197.9	193.6	194.8	194.8
52.5°	220.1	211.6	197.9	182.0	175.6	169.4	161.9	154.5	151.4	150.2	150.2
55°	189.4	179.9	166.1	148.1	142.9	135.5	125.9	117.5	113.2	112.1	114.2
57.5°	161.9	153.5	137.6	119.6	113.2	105.9	96.2	88.9	83.6	82.5	83.6
60°	139.8	128.0	114.2	97.4	88.9	82.5	72.0	65.6	60.4	58.2	59.2
62.5°	117.5	106.9	93.1	76.2	69.9	63.5	54.0	46.6	42.4	41.2	42.4
65°	100.5	90.0	77.2	62.4	56.1	49.8	41.2	33.9	30.8	29.6	30.8
67.5°	83.6	74.1	63.5	49.8	44.5	39.1	30.8	25.4	21.1	20.1	21.1
70°	67.8	59.2	48.6	39.1	33.9	29.6	23.2	18.0	14.9	13.8	14.9
72.5°	50.8	44.5	37.0	28.6	25.4	22.2	16.9	12.8	10.6	9.5	10.6
75°	37.0	31.8	26.5	20.1	18.0	15.9	11.6	8.5	7.4	6.4	7.4
77.5°	25.4	22.2	18.0	13.8	11.6	10.6	7.4	6.4	5.2	4.2	4.2
80°	16.9	14.9	11.6	9.5	8.5	7.4	5.2	4.2	3.1	3.1	3.1
82.5°	10.6	8.5	7.4	5.2	4.2	4.2	3.1	2.1	2.1	2.1	2.1
85°	6.4	5.2	4.2	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
87.5°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0
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: P252670

CATALOG NUMBER: LE_6B15D010 EC6B10209040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1
2.5°	748.1	746.0	746.0	747.1	748.1	749.2	747.1	746.0	746.0	749.2	747.1
5°	748.1	747.1	747.1	747.1	749.2	750.2	748.1	747.1	748.1	751.4	750.2
7.5°	751.4	749.2	750.2	750.2	751.4	753.5	751.4	750.2	751.4	754.5	752.4
10°	753.5	751.4	752.4	751.4	754.5	755.6	753.5	752.4	753.5	757.8	756.6
12.5°	754.5	753.5	753.5	752.4	755.6	756.6	754.5	753.5	754.5	757.8	756.6
15°	752.4	751.4	751.4	751.4	753.5	755.6	752.4	751.4	751.4	754.5	753.5
17.5°	748.1	746.0	746.0	746.0	747.1	748.1	745.0	744.0	742.9	746.0	745.0
20°	740.8	738.6	736.5	736.5	737.6	737.6	735.5	732.2	732.2	733.4	731.2
22.5°	727.0	726.0	723.9	722.8	724.9	723.9	719.6	716.4	715.4	716.4	714.2
25°	708.0	705.9	704.8	703.8	704.8	703.8	699.5	695.2	695.2	695.2	692.1
27.5°	681.5	679.4	678.4	678.4	679.4	677.2	673.0	668.8	666.8	666.8	663.5
30°	647.6	647.6	646.6	645.5	644.5	644.5	638.1	633.9	631.8	632.9	630.8
32.5°	606.4	605.4	604.2	601.1	602.1	601.1	595.8	592.6	589.5	587.4	586.2
35°	553.5	553.5	552.4	552.4	552.4	551.4	546.0	542.9	540.8	539.8	536.5
37.5°	495.2	494.2	493.1	493.1	493.1	493.1	490.0	486.8	486.8	485.8	483.6
40°	429.6	430.8	431.8	430.8	433.9	437.0	432.9	430.8	429.6	432.9	428.6
42.5°	366.1	365.1	370.4	371.5	371.5	376.8	377.8	378.9	377.8	379.9	379.9
45°	304.8	303.8	309.0	311.1	316.4	322.8	326.0	331.2	333.4	335.5	333.4
47.5°	246.6	250.8	255.0	260.4	264.5	275.1	281.5	286.8	288.9	292.1	292.1
50°	197.9	202.1	209.5	213.8	219.0	231.8	242.4	249.8	254.0	257.1	256.1
52.5°	152.4	159.8	169.4	173.5	181.0	195.8	207.4	215.9	221.1	224.4	225.4
55°	117.5	123.9	133.4	139.8	147.1	163.0	177.8	187.2	192.6	196.9	199.0
57.5°	86.8	94.1	104.8	110.0	118.5	136.5	149.2	160.9	167.2	172.5	173.5
60°	63.5	70.9	80.4	86.8	95.2	113.2	128.0	138.6	146.0	150.2	152.4
62.5°	45.5	52.9	62.4	68.8	76.2	92.1	106.9	117.5	124.9	130.1	133.4
65°	32.8	40.2	49.8	55.0	61.4	76.2	90.0	100.5	108.0	114.2	116.4
67.5°	24.4	29.6	38.1	43.4	49.8	61.4	73.0	82.5	90.0	95.2	97.4
70°	18.0	22.2	29.6	32.8	37.0	47.6	57.1	65.6	72.0	76.2	78.2
72.5°	12.8	15.9	21.1	24.4	27.5	36.0	43.4	49.8	54.0	58.2	60.4
75°	8.5	10.6	14.9	16.9	19.0	25.4	30.8	36.0	39.1	42.4	43.4
77.5°	5.2	7.4	10.6	11.6	13.8	16.9	21.1	24.4	26.5	28.6	30.8
80°	3.1	4.2	6.4	7.4	8.5	11.6	13.8	15.9	18.0	20.1	21.1
82.5°	2.1	3.1	4.2	4.2	5.2	6.4	8.5	10.6	11.6	12.8	13.8
85°	1.0	1.0	2.1	2.1	3.1	3.1	4.2	5.2	6.4	7.4	8.5
87.5°	1.0	1.0	1.0	1.0	2.1	2.1	3.1	3.1	3.1	4.2	4.2
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: P252670

CATALOG NUMBER: LE_6B15D010 EC6B10209040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	748.1	748.1	748.1	748.1	748.1	748.1	748.1	748.1
2.5°	745.0	748.1	745.0	747.1	746.0	746.0	745.0	746.0
5°	748.1	752.4	748.1	751.4	749.2	749.2	749.2	750.2
7.5°	751.4	755.6	752.4	755.6	754.5	753.5	753.5	755.6
10°	754.5	757.8	755.6	758.8	757.8	756.6	756.6	758.8
12.5°	754.5	758.8	756.6	759.9	758.8	757.8	757.8	758.8
15°	751.4	756.6	753.5	756.6	755.6	754.5	754.5	756.6
17.5°	741.9	746.0	744.0	746.0	746.0	745.0	746.0	747.1
20°	729.1	732.2	730.1	732.2	732.2	730.1	731.2	732.2
22.5°	711.1	714.2	712.2	714.2	713.2	712.2	712.2	711.1
25°	688.9	693.1	690.0	692.1	690.0	687.9	687.9	688.9
27.5°	661.4	664.6	660.4	662.5	660.4	658.2	658.2	657.1
30°	625.4	626.5	623.2	625.4	623.2	622.2	620.1	620.1
32.5°	582.0	583.1	579.9	579.9	577.8	577.8	573.6	576.8
35°	531.2	532.2	531.2	530.1	527.0	526.0	524.9	524.9
37.5°	478.4	478.4	475.1	474.1	472.0	469.9	470.9	467.8
40°	424.4	423.2	420.1	421.1	420.1	417.0	415.9	414.9
42.5°	373.5	373.5	370.4	371.5	369.4	368.2	365.1	366.1
45°	329.1	329.1	326.0	326.0	324.9	321.8	322.8	320.6
47.5°	288.9	288.9	287.9	287.9	284.6	283.6	283.6	283.6
50°	254.0	254.0	254.0	254.0	252.9	251.9	250.8	251.9
52.5°	224.4	226.5	225.4	225.4	224.4	223.2	222.2	222.2
55°	197.9	199.0	199.0	200.0	199.0	197.9	199.0	197.9
57.5°	174.6	176.8	176.8	176.8	176.8	176.8	175.6	174.6
60°	154.5	155.5	155.5	156.6	156.6	156.6	155.5	155.5
62.5°	134.4	136.5	137.6	137.6	138.6	137.6	137.6	137.6
65°	118.5	120.6	121.8	120.6	121.8	121.8	120.6	120.6
67.5°	99.5	101.6	101.6	101.6	101.6	102.6	101.6	101.6
70°	80.4	82.5	81.5	82.5	82.5	82.5	82.5	82.5
72.5°	61.4	62.4	63.5	63.5	64.5	63.5	63.5	63.5
75°	44.5	46.6	46.6	46.6	46.6	47.6	47.6	47.6
77.5°	31.8	32.8	32.8	33.9	33.9	33.9	33.9	34.9
80°	22.2	22.2	23.2	23.2	24.4	24.4	24.4	24.4
82.5°	14.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
85°	8.5	9.5	9.5	9.5	9.5	10.6	10.6	10.6
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	4.2	4.2
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)