

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: P252337

Luminaire Tested: **LE_6B10D010 EC6B10208030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1201.2 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

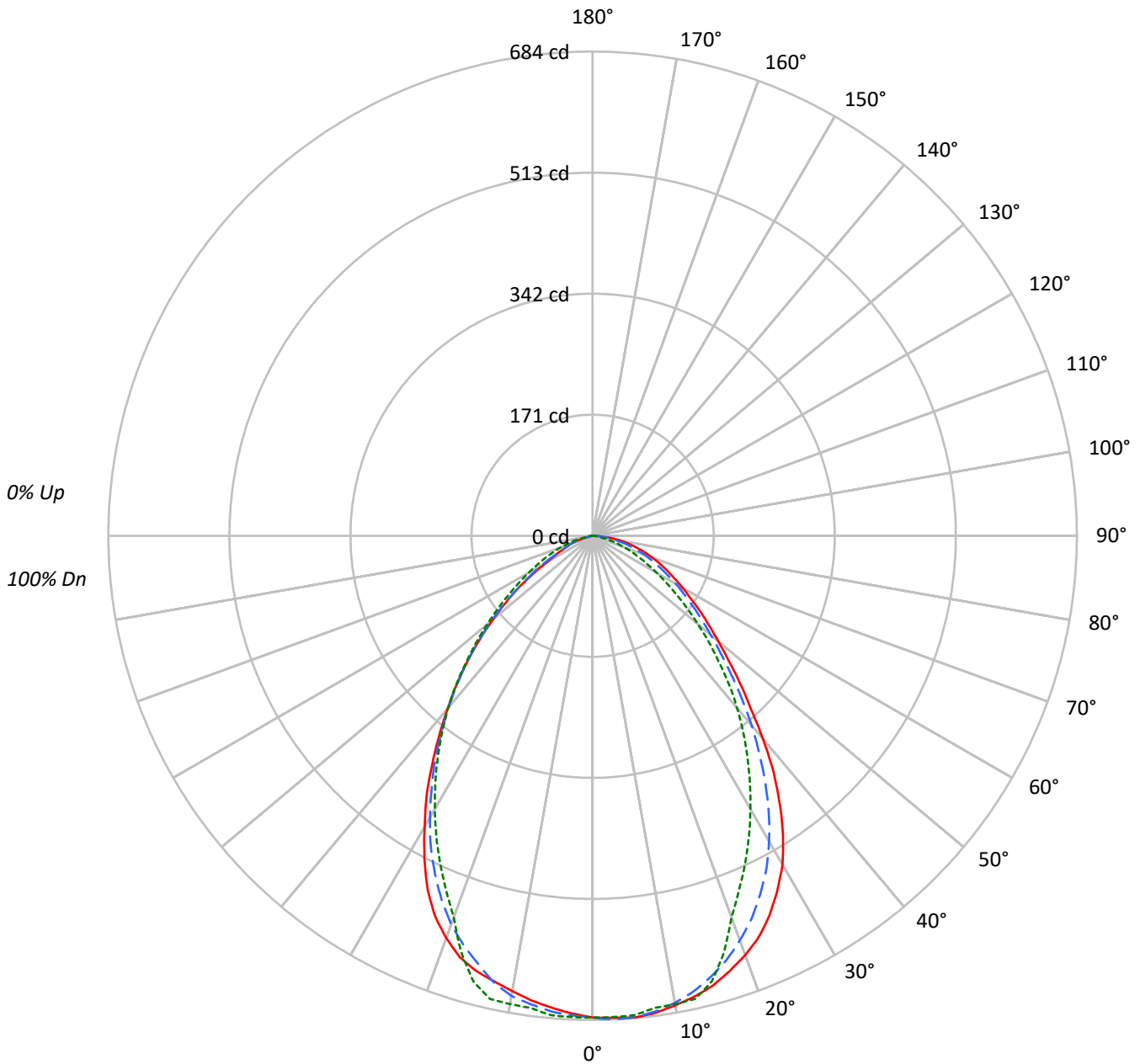
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252337

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBLWW1LI

Luminous Intensity Polar Plot





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CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBLWW1LI

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	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44403	44403	44403
5°	44743	44520	43819
10°	44624	44505	43273
15°	44416	44004	42991
20°	43753	39824	41976
25°	42572	36712	39707
30°	40416	33561	35753
35°	36676	30344	31467
40°	31843	27032	27100
45°	27163	23241	22992
50°	23507	19650	18574
55°	21020	16390	14377
60°	19155	13596	9682
65°	17876	11192	7240
70°	17015	9118	6085
75°	16032	6453	2017
80°	15254	3344	676
85°	12576	1946	0



TEST NUMBER: P252337

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	5.4
10°-20°	179.8	15.0
20°-30°	248.1	20.7
30°-40°	252.5	21.0
40°-50°	202.9	16.9
50°-60°	134.9	11.2
60°-70°	76.9	6.4
70°-80°	34.5	2.9
80°-90°	7.3	0.6
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°	492.2	41.0
0°-40°	744.7	62.0
0°-60°	1082.5	90.1
0°-90°	1201.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	681	681	681	681	681	
5°	683	682	680	674	669	65
15°	658	645	652	626	636	185
25°	591	560	510	527	552	271
35°	460	425	381	388	395	286
45°	294	277	252	249	249	228
55°	185	172	144	128	126	166
65°	116	103	72	47	47	115
75°	64	53	26	11	8	68
85°	17	12	3	1	0	20
90°	0	0	0	0	0	



TEST NUMBER: P252337

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	681.5	685.0	684.1	683.2	684.1	683.2	681.5	681.5	679.8	679.8	684.1
5°	683.2	685.0	684.1	683.2	683.2	684.1	680.6	680.6	678.9	678.0	682.4
7.5°	679.8	682.4	680.6	680.6	679.8	680.6	677.1	677.1	674.5	673.6	678.0
10°	673.6	677.1	675.4	675.4	675.4	673.6	671.8	670.9	668.2	667.4	670.0
12.5°	666.5	669.1	668.2	666.5	666.5	666.5	663.0	662.1	658.5	656.8	659.4
15°	657.6	659.4	658.5	657.6	655.9	655.9	652.4	650.6	647.0	643.5	645.2
17.5°	644.4	647.0	645.2	644.4	641.8	641.8	638.2	636.5	631.1	627.6	628.5
20°	630.2	631.1	630.2	628.5	625.9	625.0	621.4	617.9	613.5	609.0	608.1
22.5°	613.5	614.4	611.8	609.9	607.2	606.4	602.0	599.4	592.2	587.0	586.0
25°	591.4	592.2	592.2	587.9	586.0	584.2	579.9	575.5	569.2	562.2	559.5
27.5°	564.9	567.5	565.8	561.2	557.8	556.9	552.5	548.9	541.0	534.8	531.2
30°	536.5	535.6	534.8	532.1	526.9	526.0	521.5	517.1	510.9	503.0	498.5
32.5°	500.4	500.4	499.4	496.8	491.5	489.8	486.1	480.9	473.8	467.6	463.2
35°	460.5	461.4	460.5	455.2	451.8	449.9	448.1	442.0	435.8	428.8	425.1
37.5°	419.0	416.4	417.2	412.8	408.4	410.1	404.9	402.2	395.1	389.9	386.2
40°	373.9	375.6	372.1	370.4	367.8	365.1	365.1	360.6	357.1	350.9	349.1
42.5°	329.8	332.4	331.5	329.8	326.1	327.0	322.6	320.9	316.5	313.8	311.1
45°	294.4	294.4	294.4	292.6	291.8	289.9	287.2	284.6	282.0	278.5	276.6
47.5°	259.9	259.9	260.8	259.0	257.2	256.4	254.6	254.6	250.1	246.6	244.9
50°	231.6	231.6	231.6	229.9	228.0	228.0	226.2	224.5	221.9	219.2	217.5
52.5°	206.0	206.0	206.0	204.2	203.2	202.4	201.5	200.6	197.1	195.4	193.6
55°	184.8	183.9	183.9	183.0	181.2	181.2	180.4	178.5	175.9	173.2	172.4
57.5°	163.5	164.4	163.5	163.5	161.8	161.8	160.0	159.1	156.5	154.8	152.9
60°	146.8	146.8	146.8	145.9	144.1	145.0	143.2	142.4	139.6	137.0	135.2
62.5°	130.0	130.9	130.9	130.0	128.1	128.1	127.2	126.4	123.8	121.1	118.5
65°	115.8	115.8	115.8	114.9	114.0	114.0	113.1	112.2	109.6	106.1	103.4
67.5°	102.5	101.6	101.6	101.6	100.8	99.9	99.0	98.1	95.5	92.9	89.2
70°	89.2	89.2	89.2	88.4	86.6	87.5	86.6	85.8	83.1	80.5	77.8
72.5°	76.9	76.9	76.0	75.1	75.1	74.2	74.2	73.4	70.8	67.1	64.5
75°	63.6	63.6	63.6	63.6	61.9	62.8	61.0	60.1	58.4	55.8	53.0
77.5°	52.1	52.1	52.1	51.2	50.4	50.4	49.5	48.6	46.0	44.2	40.6
80°	40.6	40.6	40.6	40.6	39.8	38.9	38.0	37.1	35.4	32.8	30.0
82.5°	30.0	30.0	29.1	29.1	29.1	28.2	27.4	26.5	24.8	23.0	21.2
85°	16.8	17.6	17.6	15.9	16.8	15.9	15.9	14.1	14.1	12.4	11.5
87.5°	6.2	5.2	5.2	5.2	5.2	5.2	5.2	4.4	4.4	4.4	3.5
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: P252337

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	680.6	679.8	683.2	683.2	678.0	680.6	681.5	679.8	679.8	680.6	678.0
5°	678.9	677.1	680.6	681.5	676.2	678.9	679.8	678.0	678.9	679.8	676.2
7.5°	672.6	672.6	675.4	676.2	670.9	673.6	673.6	671.8	672.6	672.6	670.0
10°	666.5	663.9	666.5	666.5	662.1	663.0	664.8	663.9	667.4	671.8	671.8
12.5°	655.0	652.4	656.8	656.8	654.1	657.6	662.1	664.8	668.2	670.0	664.8
15°	640.9	641.8	649.8	655.9	653.2	658.5	663.0	661.2	656.8	651.5	643.5
17.5°	622.2	619.6	626.8	630.2	626.8	628.5	632.0	628.5	621.4	617.0	606.4
20°	601.1	594.0	594.0	592.2	586.0	586.0	585.1	579.0	576.4	573.6	569.2
22.5°	577.2	569.2	566.6	561.2	556.0	555.1	552.5	546.2	542.8	541.0	535.6
25°	549.9	542.8	538.4	533.0	525.1	523.2	520.6	514.5	512.8	510.0	505.6
27.5°	521.5	512.8	506.5	501.2	494.1	493.2	488.0	483.5	480.0	478.2	474.6
30°	488.9	479.1	474.6	467.6	462.2	460.5	456.1	449.9	447.2	445.5	442.9
32.5°	452.6	444.6	440.2	434.0	427.0	427.9	422.5	417.2	415.5	413.6	411.0
35°	417.2	409.2	404.0	398.6	394.2	392.5	388.9	384.5	381.9	381.0	379.2
37.5°	378.4	372.1	367.8	362.4	358.9	357.1	355.4	350.9	349.1	349.1	345.6
40°	340.4	335.0	331.5	328.9	324.4	323.5	321.8	319.1	318.2	317.4	314.6
42.5°	305.9	298.8	296.1	294.4	291.8	289.9	289.0	287.2	286.4	285.5	282.9
45°	273.1	267.0	264.2	262.5	259.9	259.0	258.1	255.5	253.8	251.9	251.0
47.5°	241.4	236.9	236.0	231.6	229.9	228.0	226.2	224.5	223.6	222.8	219.2
50°	213.9	211.2	206.9	204.2	202.4	201.5	198.0	195.4	194.5	193.6	190.9
52.5°	189.1	185.6	183.0	178.5	177.6	175.9	174.1	170.6	168.9	168.0	165.2
55°	167.1	164.4	160.9	157.4	154.8	153.8	151.1	147.6	145.9	144.1	142.4
57.5°	148.5	144.1	140.5	137.0	135.2	132.6	130.0	128.1	125.5	122.9	120.2
60°	130.9	127.2	122.9	119.4	117.6	115.8	112.2	109.6	107.0	104.2	101.6
62.5°	114.0	110.5	106.1	102.5	100.8	99.0	95.5	92.9	90.1	87.5	84.0
65°	99.0	95.5	91.9	88.4	86.6	84.9	81.4	77.8	75.1	72.5	69.0
67.5°	86.6	82.2	78.6	75.1	73.4	71.6	68.1	65.4	61.9	59.2	55.8
70°	73.4	69.9	67.1	63.6	61.9	60.1	56.6	53.0	50.4	47.8	44.2
72.5°	61.9	57.5	54.8	51.2	49.5	48.6	45.1	42.4	39.8	36.2	33.6
75°	49.5	46.0	42.4	39.8	38.0	37.1	33.6	31.0	28.2	25.6	23.0
77.5°	38.0	35.4	31.9	29.1	27.4	26.5	23.0	20.4	17.6	15.9	13.2
80°	28.2	24.8	23.0	20.4	19.5	17.6	15.9	13.2	11.5	8.9	7.1
82.5°	19.5	16.8	15.0	13.2	12.4	11.5	9.8	8.0	6.2	5.2	4.4
85°	10.6	8.9	8.0	7.1	6.2	6.2	5.2	4.4	3.5	2.6	1.8
87.5°	3.5	2.6	2.6	2.6	2.6	1.8	1.8	1.8	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: P252337

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	679.8	679.8	679.8	678.9	678.9	678.9	678.0	681.5	678.0	677.1	679.8
5°	678.9	677.1	677.1	677.1	677.1	676.2	675.4	677.1	674.5	673.6	673.6
7.5°	673.6	672.6	672.6	671.8	670.9	670.0	669.1	670.0	667.4	666.5	666.5
10°	674.5	672.6	672.6	670.0	668.2	665.6	663.0	663.9	660.2	657.6	657.6
12.5°	663.9	659.4	656.8	654.1	652.4	651.5	647.9	649.8	646.1	645.2	645.2
15°	640.0	634.6	630.2	628.5	628.5	626.8	624.1	627.6	625.9	626.8	631.1
17.5°	602.9	600.2	597.5	596.6	597.5	599.4	601.1	606.4	606.4	609.0	613.5
20°	570.1	568.4	570.1	570.1	571.0	574.6	578.1	582.5	584.2	587.0	593.1
22.5°	538.4	538.4	540.1	542.8	541.9	548.0	548.9	556.9	556.9	562.2	567.5
25°	507.4	507.4	509.1	510.0	511.8	515.4	518.9	525.1	526.9	532.1	536.5
27.5°	477.4	476.5	476.5	477.4	479.1	483.5	485.2	492.4	495.0	498.5	503.0
30°	443.8	442.9	444.6	446.4	445.5	449.9	452.6	457.9	459.6	463.2	466.8
32.5°	411.9	411.9	411.9	413.6	413.6	417.2	417.2	423.4	423.4	426.0	429.6
35°	379.2	379.2	380.1	381.0	381.9	382.8	383.6	387.1	388.0	388.9	390.8
37.5°	348.2	347.4	348.2	348.2	346.5	350.0	350.0	353.6	350.9	353.6	354.5
40°	316.5	316.5	315.6	315.6	315.6	317.4	315.6	318.2	316.5	318.2	317.4
42.5°	283.8	283.8	282.0	283.8	282.9	282.9	282.9	284.6	282.0	283.8	284.6
45°	251.0	250.1	250.1	249.2	249.2	249.2	250.1	250.1	249.2	251.0	251.0
47.5°	219.2	218.4	218.4	218.4	218.4	219.2	216.6	218.4	216.6	216.6	216.6
50°	191.9	190.9	190.0	189.1	188.2	188.2	187.4	187.4	185.6	184.8	183.9
52.5°	165.2	164.4	162.6	162.6	161.8	160.9	158.2	158.2	155.6	154.8	154.8
55°	141.4	138.8	137.9	136.1	136.1	134.4	132.6	130.9	128.1	126.4	126.4
57.5°	119.4	116.6	114.9	114.0	113.1	111.4	107.9	107.0	103.4	102.5	101.6
60°	99.9	97.2	94.6	92.9	91.9	89.2	85.8	84.0	82.2	79.5	76.9
62.5°	81.4	78.6	75.1	74.2	72.5	69.9	67.1	64.5	62.8	60.1	58.4
65°	65.4	62.8	60.1	58.4	56.6	53.9	51.2	48.6	46.9	46.0	45.1
67.5°	53.0	49.5	46.9	46.0	44.2	42.4	39.8	38.9	37.1	37.1	37.1
70°	41.5	38.9	36.2	35.4	34.5	32.8	31.0	31.0	31.0	31.0	31.0
72.5°	31.0	29.1	26.5	25.6	24.8	23.9	22.1	23.0	22.1	22.1	22.1
75°	19.5	17.6	15.9	15.0	14.1	13.2	12.4	11.5	10.6	9.8	9.8
77.5°	10.6	8.9	8.0	7.1	7.1	6.2	5.2	5.2	4.4	4.4	4.4
80°	6.2	5.2	4.4	3.5	3.5	2.6	2.6	2.6	2.6	1.8	1.8
82.5°	3.5	2.6	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
85°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
87.5°	0.9	0.9	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: P252337

CATALOG NUMBER: LE_6B10D010 EC6B10208030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	675.4	678.0	675.4	678.0	678.0	678.0	678.0	675.4
5°	670.9	672.6	670.0	671.8	672.6	671.8	671.8	669.1
7.5°	663.0	664.8	662.1	664.8	665.6	664.8	663.9	662.1
10°	655.0	655.9	653.2	655.0	656.8	656.8	655.9	653.2
12.5°	642.6	645.2	642.6	644.4	646.1	647.0	647.0	644.4
15°	628.5	632.9	631.1	633.8	636.5	637.4	637.4	636.5
17.5°	614.4	618.8	616.1	620.5	623.1	625.0	625.9	624.1
20°	594.0	599.4	597.5	601.1	604.6	607.2	607.2	604.6
22.5°	567.5	574.6	573.6	576.4	580.8	581.6	583.4	581.6
25°	538.4	543.6	542.8	545.4	550.8	550.8	551.6	551.6
27.5°	504.8	510.0	509.1	510.9	514.5	515.4	516.2	514.5
30°	468.5	471.1	471.1	473.8	476.5	477.4	477.4	474.6
32.5°	428.8	432.2	434.0	433.1	435.8	437.5	436.6	436.6
35°	392.5	393.4	394.2	395.1	396.0	397.8	396.0	395.1
37.5°	353.6	356.2	354.5	356.2	358.0	357.1	356.2	356.2
40°	318.2	319.1	317.4	319.1	320.0	320.0	320.0	318.2
42.5°	282.9	284.6	282.9	284.6	284.6	284.6	284.6	283.8
45°	247.5	249.2	249.2	250.1	250.1	249.2	249.2	249.2
47.5°	214.8	216.6	214.8	216.6	217.5	215.6	215.6	215.6
50°	183.9	183.0	183.0	183.9	183.9	183.9	183.9	183.0
52.5°	152.0	152.9	152.9	152.9	153.8	152.9	153.8	153.8
55°	124.6	124.6	124.6	125.5	124.6	124.6	125.5	126.4
57.5°	99.9	99.0	98.1	98.1	99.0	98.1	98.1	98.1
60°	76.9	76.0	75.1	75.1	75.1	75.1	75.1	74.2
62.5°	57.5	57.5	57.5	58.4	58.4	58.4	58.4	59.2
65°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.9
67.5°	37.1	37.1	37.1	38.0	38.0	38.0	38.0	38.0
70°	31.0	31.0	31.9	31.0	31.9	31.9	31.9	31.9
72.5°	21.2	21.2	21.2	21.2	21.2	20.4	21.2	20.4
75°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.0
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)