

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: P252336

Luminaire Tested: **LE_6B10D010 EC6B10208027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252336
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 EC6B10208027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1150.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

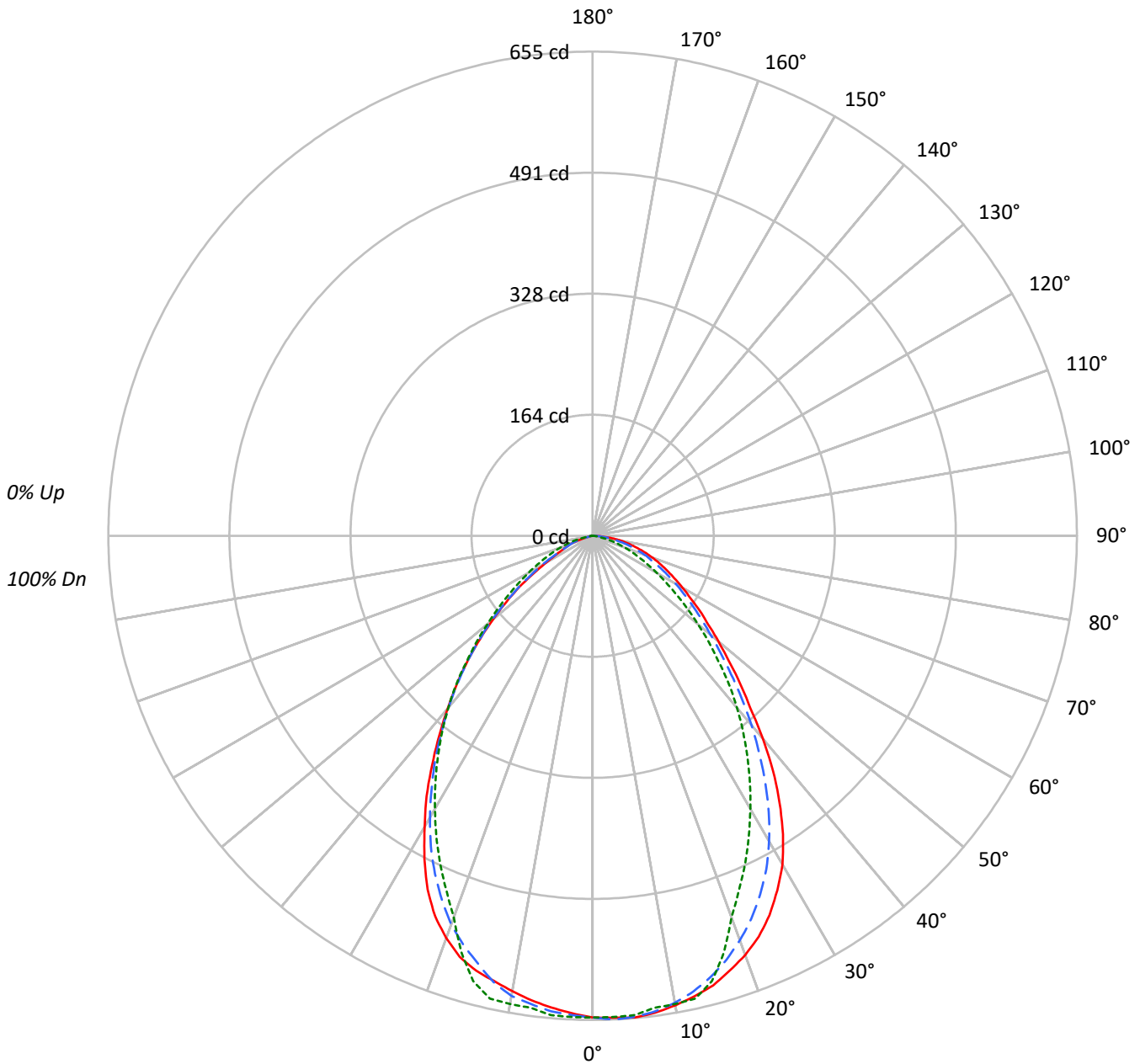
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252336

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBLWW1LI

Luminous Intensity Polar Plot





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CATALOG NUMBER: LE_6B10D010 EC6B10208027 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	43																			
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°	42511	42511	42511
5°	42837	42621	41953
10°	42723	42603	41431
15°	42524	42119	41147
20°	41893	38130	40192
25°	40751	35143	38008
30°	38691	32130	34231
35°	35115	29054	30121
40°	30489	25873	25941
45°	26000	22245	22014
50°	22512	18817	17772
55°	20121	15685	13763
60°	18333	13035	9277
65°	17120	10713	6931
70°	16309	8736	5818
75°	15351	6176	1916
80°	14615	3193	676
85°	12052	1871	0



TEST NUMBER: P252336

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	5.4
10°-20°	172.1	15.0
20°-30°	237.6	20.7
30°-40°	241.7	21.0
40°-50°	194.3	16.9
50°-60°	129.2	11.2
60°-70°	73.6	6.4
70°-80°	33.1	2.9
80°-90°	7.0	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°	471.2	41.0
0°-40°	712.9	62.0
0°-60°	1036.4	90.1
0°-90°	1150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1150.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	652	652	652	652	652	
5°	654	653	651	646	641	62
15°	630	618	624	599	609	177
25°	566	536	488	504	528	259
35°	441	407	365	372	378	274
45°	282	265	241	239	239	219
55°	177	165	138	123	121	159
65°	111	99	69	45	45	110
75°	61	51	24	10	8	65
85°	16	11	2	1	0	19
90°	0	0	0	0	0	



TEST NUMBER: P252336

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6
2.5°	652.5	655.9	655.0	654.1	655.0	654.1	652.5	652.5	650.8	650.8	655.0
5°	654.1	655.9	655.0	654.1	654.1	655.0	651.6	651.6	649.9	649.0	653.2
7.5°	650.8	653.2	651.6	651.6	650.8	651.6	648.2	648.2	645.6	644.9	649.0
10°	644.9	648.2	646.5	646.5	646.5	644.9	643.1	642.2	639.8	638.9	641.5
12.5°	638.0	640.6	639.8	638.0	638.0	638.0	634.6	633.9	630.5	628.8	631.2
15°	629.6	631.2	630.5	629.6	627.9	627.9	624.5	622.9	619.5	616.0	617.8
17.5°	616.9	619.5	617.8	616.9	614.4	614.4	611.0	609.2	604.2	600.9	601.6
20°	603.4	604.2	603.4	601.6	599.1	598.2	594.9	591.5	587.2	583.0	582.2
22.5°	587.2	588.1	585.6	583.9	581.4	580.5	576.2	573.8	567.0	561.9	561.0
25°	566.1	567.0	567.0	562.8	561.0	559.4	555.1	550.9	545.0	538.2	535.6
27.5°	540.8	543.2	541.6	537.4	534.0	533.1	528.9	525.5	517.9	512.0	508.6
30°	513.6	512.9	512.0	509.4	504.4	503.5	499.2	495.0	489.1	481.5	477.2
32.5°	479.0	479.0	478.1	475.6	470.5	468.9	465.4	460.4	453.6	447.6	443.4
35°	440.9	441.8	440.9	435.8	432.4	430.8	429.0	423.1	417.2	410.4	407.0
37.5°	401.1	398.6	399.4	395.2	391.0	392.6	387.6	385.0	378.2	373.2	369.8
40°	358.0	359.6	356.2	354.6	352.0	349.5	349.5	345.2	341.9	336.0	334.2
42.5°	315.6	318.1	317.4	315.6	312.2	313.1	308.9	307.1	303.0	300.4	297.9
45°	281.8	281.8	281.8	280.1	279.2	277.6	275.0	272.5	270.0	266.6	264.9
47.5°	248.8	248.8	249.6	248.0	246.2	245.4	243.8	243.8	239.5	236.1	234.4
50°	221.8	221.8	221.8	220.0	218.4	218.4	216.6	215.0	212.4	209.9	208.1
52.5°	197.1	197.1	197.1	195.5	194.6	193.8	193.0	192.1	188.8	187.0	185.4
55°	176.9	176.0	176.0	175.1	173.5	173.5	172.6	171.0	168.4	165.9	165.0
57.5°	156.5	157.4	156.5	156.5	154.9	154.9	153.1	152.4	149.8	148.1	146.4
60°	140.5	140.5	140.5	139.6	137.9	138.8	137.1	136.2	133.8	131.1	129.5
62.5°	124.4	125.2	125.2	124.4	122.8	122.8	121.9	121.0	118.5	115.9	113.4
65°	110.9	110.9	110.9	110.0	109.1	109.1	108.4	107.5	104.9	101.5	99.0
67.5°	98.1	97.4	97.4	97.4	96.5	95.6	94.8	93.9	91.4	88.9	85.5
70°	85.5	85.5	85.5	84.6	82.9	83.8	82.9	82.1	79.5	77.0	74.5
72.5°	73.6	73.6	72.8	71.9	71.9	71.1	71.1	70.2	67.8	64.4	61.8
75°	60.9	60.9	60.9	60.9	59.2	60.1	58.4	57.5	55.9	53.4	50.8
77.5°	49.9	49.9	49.9	49.1	48.2	48.2	47.4	46.5	44.0	42.2	38.9
80°	38.9	38.9	38.9	38.9	38.1	37.2	36.4	35.5	33.9	31.2	28.8
82.5°	28.8	28.8	27.9	27.9	27.9	27.1	26.2	25.4	23.8	22.0	20.2
85°	16.1	16.9	16.9	15.2	16.1	15.2	15.2	13.5	13.5	11.9	11.0
87.5°	5.9	5.1	5.1	5.1	5.1	5.1	5.1	4.2	4.2	4.2	3.4
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: P252336

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6
2.5°	651.6	650.8	654.1	654.1	649.0	651.6	652.5	650.8	650.8	651.6	649.0
5°	649.9	648.2	651.6	652.5	647.4	649.9	650.8	649.0	649.9	650.8	647.4
7.5°	644.0	644.0	646.5	647.4	642.2	644.9	644.9	643.1	644.0	644.0	641.5
10°	638.0	635.5	638.0	638.0	633.9	634.6	636.4	635.5	638.9	643.1	643.1
12.5°	627.0	624.5	628.8	628.8	626.2	629.6	633.9	636.4	639.8	641.5	636.4
15°	613.5	614.4	622.0	627.9	625.4	630.5	634.6	633.0	628.8	623.6	616.0
17.5°	595.8	593.2	600.0	603.4	600.0	601.6	605.0	601.6	594.9	590.6	580.5
20°	575.5	568.6	568.6	567.0	561.0	561.0	560.2	554.2	551.8	549.2	545.0
22.5°	552.6	545.0	542.4	537.4	532.2	531.4	528.9	523.0	519.6	517.9	512.9
25°	526.4	519.6	515.4	510.2	502.6	501.0	498.4	492.5	490.9	488.2	484.0
27.5°	499.2	490.9	484.9	479.9	473.0	472.2	467.1	462.9	459.5	457.8	454.4
30°	468.0	458.6	454.4	447.6	442.6	440.9	436.6	430.8	428.2	426.5	424.0
32.5°	433.2	425.6	421.4	415.5	408.8	409.6	404.5	399.4	397.8	396.0	393.5
35°	399.4	391.8	386.8	381.6	377.4	375.8	372.4	368.1	365.6	364.8	363.0
37.5°	362.2	356.2	352.0	347.0	343.6	341.9	340.1	336.0	334.2	334.2	330.9
40°	325.8	320.8	317.4	314.8	310.6	309.8	308.0	305.5	304.6	303.8	301.2
42.5°	292.8	286.0	283.5	281.8	279.2	277.6	276.8	275.0	274.1	273.4	270.8
45°	261.5	255.5	253.0	251.4	248.8	248.0	247.1	244.5	242.9	241.1	240.4
47.5°	231.0	226.8	226.0	221.8	220.0	218.4	216.6	215.0	214.1	213.2	209.9
50°	204.8	202.2	198.0	195.5	193.8	193.0	189.5	187.0	186.1	185.4	182.8
52.5°	181.1	177.8	175.1	171.0	170.1	168.4	166.8	163.4	161.6	160.8	158.2
55°	160.0	157.4	154.0	150.6	148.1	147.2	144.8	141.4	139.6	137.9	136.2
57.5°	142.1	137.9	134.5	131.1	129.5	126.9	124.4	122.8	120.1	117.6	115.1
60°	125.2	121.9	117.6	114.2	112.5	110.9	107.5	104.9	102.4	99.9	97.4
62.5°	109.1	105.8	101.5	98.1	96.5	94.8	91.4	88.9	86.4	83.8	80.4
65°	94.8	91.4	88.0	84.6	82.9	81.2	77.9	74.5	71.9	69.4	66.0
67.5°	82.9	78.8	75.4	71.9	70.2	68.5	65.1	62.6	59.2	56.8	53.4
70°	70.2	66.9	64.4	60.9	59.2	57.5	54.1	50.8	48.2	45.8	42.2
72.5°	59.2	55.0	52.5	49.1	47.4	46.5	43.1	40.6	38.1	34.8	32.1
75°	47.4	44.0	40.6	38.1	36.4	35.5	32.1	29.6	27.1	24.5	22.0
77.5°	36.4	33.9	30.5	27.9	26.2	25.4	22.0	19.5	16.9	15.2	12.8
80°	27.1	23.8	22.0	19.5	18.6	16.9	15.2	12.8	11.0	8.5	6.8
82.5°	18.6	16.1	14.4	12.8	11.9	11.0	9.2	7.6	5.9	5.1	4.2
85°	10.1	8.5	7.6	6.8	5.9	5.9	5.1	4.2	3.4	2.5	1.8
87.5°	3.4	2.5	2.5	2.5	2.5	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: P252336

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6
2.5°	650.8	650.8	650.8	649.9	649.9	649.9	649.0	652.5	649.0	648.2	650.8
5°	649.9	648.2	648.2	648.2	648.2	647.4	646.5	648.2	645.6	644.9	644.9
7.5°	644.9	644.0	644.0	643.1	642.2	641.5	640.6	641.5	638.9	638.0	638.0
10°	645.6	644.0	644.0	641.5	639.8	637.2	634.6	635.5	632.1	629.6	629.6
12.5°	635.5	631.2	628.8	626.2	624.5	623.6	620.2	622.0	618.6	617.8	617.8
15°	612.6	607.6	603.4	601.6	601.6	600.0	597.5	600.9	599.1	600.0	604.2
17.5°	577.1	574.6	572.0	571.2	572.0	573.8	575.5	580.5	580.5	583.0	587.2
20°	545.9	544.1	545.9	545.9	546.6	550.0	553.4	557.6	559.4	561.9	567.9
22.5°	515.4	515.4	517.0	519.6	518.8	524.6	525.5	533.1	533.1	538.2	543.2
25°	485.8	485.8	487.4	488.2	490.0	493.4	496.8	502.6	504.4	509.4	513.6
27.5°	457.0	456.1	456.1	457.0	458.6	462.9	464.6	471.4	473.9	477.2	481.5
30°	424.8	424.0	425.6	427.4	426.5	430.8	433.2	438.4	440.0	443.4	446.8
32.5°	394.4	394.4	394.4	396.0	396.0	399.4	399.4	405.4	405.4	407.9	411.2
35°	363.0	363.0	363.9	364.8	365.6	366.4	367.2	370.6	371.5	372.4	374.0
37.5°	333.4	332.6	333.4	333.4	331.8	335.1	335.1	338.5	336.0	338.5	339.4
40°	303.0	303.0	302.1	302.1	302.1	303.8	302.1	304.6	303.0	304.6	303.8
42.5°	271.6	271.6	270.0	271.6	270.8	270.8	270.8	272.5	270.0	271.6	272.5
45°	240.4	239.5	239.5	238.6	238.6	238.6	239.5	239.5	238.6	240.4	240.4
47.5°	209.9	209.0	209.0	209.0	209.0	209.9	207.4	209.0	207.4	207.4	207.4
50°	183.6	182.8	182.0	181.1	180.2	180.2	179.4	179.4	177.8	176.9	176.0
52.5°	158.2	157.4	155.8	155.8	154.9	154.0	151.5	151.5	148.9	148.1	148.1
55°	135.4	132.9	132.0	130.4	130.4	128.6	126.9	125.2	122.8	121.0	121.0
57.5°	114.2	111.8	110.0	109.1	108.4	106.6	103.2	102.4	99.0	98.1	97.4
60°	95.6	93.1	90.5	88.9	88.0	85.5	82.1	80.4	78.8	76.1	73.6
62.5°	77.9	75.4	71.9	71.1	69.4	66.9	64.4	61.8	60.1	57.5	55.9
65°	62.6	60.1	57.5	55.9	54.1	51.6	49.1	46.5	44.9	44.0	43.1
67.5°	50.8	47.4	44.9	44.0	42.2	40.6	38.1	37.2	35.5	35.5	35.5
70°	39.8	37.2	34.8	33.9	33.0	31.2	29.6	29.6	29.6	29.6	29.6
72.5°	29.6	27.9	25.4	24.5	23.8	22.9	21.1	22.0	21.1	21.1	21.1
75°	18.6	16.9	15.2	14.4	13.5	12.8	11.9	11.0	10.1	9.2	9.2
77.5°	10.1	8.5	7.6	6.8	6.8	5.9	5.1	5.1	4.2	4.2	4.2
80°	5.9	5.1	4.2	3.4	3.4	2.5	2.5	2.5	2.5	1.8	1.8
82.5°	3.4	2.5	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: P252336

CATALOG NUMBER: LE_6B10D010 EC6B10208027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.6
2.5°	646.5	649.0	646.5	649.0	649.0	649.0	649.0	646.5
5°	642.2	644.0	641.5	643.1	644.0	643.1	643.1	640.6
7.5°	634.6	636.4	633.9	636.4	637.2	636.4	635.5	633.9
10°	627.0	627.9	625.4	627.0	628.8	628.8	627.9	625.4
12.5°	615.2	617.8	615.2	616.9	618.6	619.5	619.5	616.9
15°	601.6	605.9	604.2	606.8	609.2	610.1	610.1	609.2
17.5°	588.1	592.4	589.9	594.0	596.6	598.2	599.1	597.5
20°	568.6	573.8	572.0	575.5	578.9	581.4	581.4	578.9
22.5°	543.2	550.0	549.2	551.8	556.0	556.9	558.5	556.9
25°	515.4	520.4	519.6	522.1	527.2	527.2	528.0	528.0
27.5°	483.2	488.2	487.4	489.1	492.5	493.4	494.2	492.5
30°	448.5	451.0	451.0	453.6	456.1	457.0	457.0	454.4
32.5°	410.4	413.8	415.5	414.6	417.2	418.9	418.0	418.0
35°	375.8	376.6	377.4	378.2	379.1	380.8	379.1	378.2
37.5°	338.5	341.0	339.4	341.0	342.8	341.9	341.0	341.0
40°	304.6	305.5	303.8	305.5	306.4	306.4	306.4	304.6
42.5°	270.8	272.5	270.8	272.5	272.5	272.5	272.5	271.6
45°	237.0	238.6	238.6	239.5	239.5	238.6	238.6	238.6
47.5°	205.6	207.4	205.6	207.4	208.1	206.5	206.5	206.5
50°	176.0	175.1	175.1	176.0	176.0	176.0	176.0	175.1
52.5°	145.5	146.4	146.4	146.4	147.2	146.4	147.2	147.2
55°	119.4	119.4	119.4	120.1	119.4	119.4	120.1	121.0
57.5°	95.6	94.8	93.9	93.9	94.8	93.9	93.9	93.9
60°	73.6	72.8	71.9	71.9	71.9	71.9	71.9	71.1
62.5°	55.0	55.0	55.0	55.9	55.9	55.9	55.9	56.8
65°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.9
67.5°	35.5	35.5	35.5	36.4	36.4	36.4	36.4	36.4
70°	29.6	29.6	30.5	29.6	30.5	30.5	30.5	30.5
72.5°	20.2	20.2	20.2	20.2	20.2	19.5	20.2	19.5
75°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	7.6
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)