

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P563894

Luminaire Tested: **LX6C10D010 EX6C109030 6LBLWWH**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P563894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C10D010 EX6C109030 6LBLWWH  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

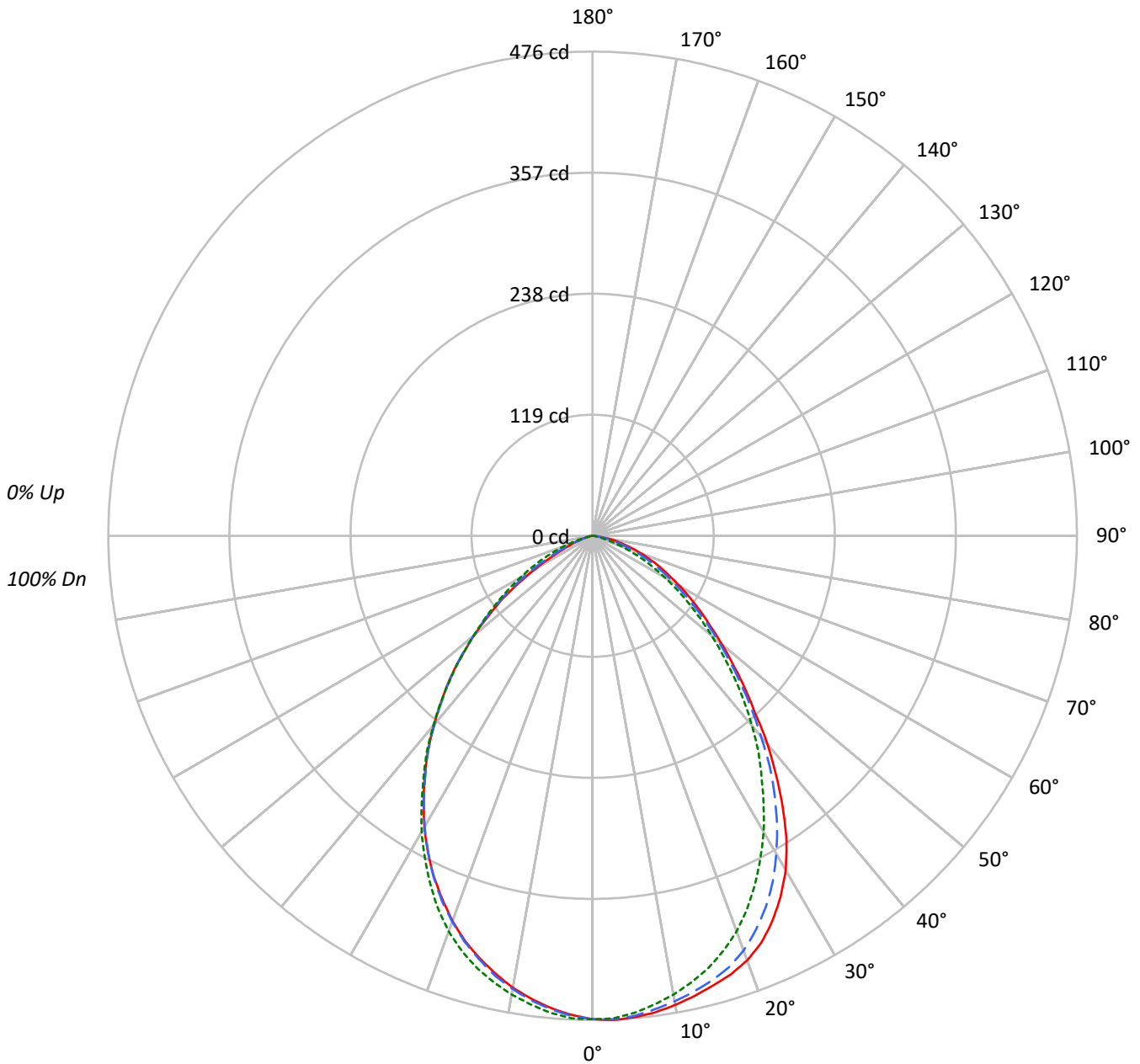
Lumens per Lamp: N/A  
Luminaire Lumens: 864.6 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: P563894

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBLWWH

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	99	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78								
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68								
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60								
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43								
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39								
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	26056	26056	26056
5°	26145	25913	25655
10°	26068	25489	25116
15°	25971	24960	24387
20°	25914	24140	23499
25°	25284	22846	22344
30°	24023	21282	20927
35°	21804	19374	19247
40°	19129	17433	17347
45°	16405	15234	15366
50°	14115	12989	12921
55°	12339	10963	10294
60°	10843	8991	7028
65°	9482	6966	4229
70°	8094	4680	2484
75°	6524	2436	1356
80°	4514	979	758
85°	1761	314	377



TEST NUMBER: P563894

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBLWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	5.2
10°-20°	124.4	14.4
20°-30°	177.0	20.5
30°-40°	186.3	21.5
40°-50°	155.2	18.0
50°-60°	104.9	12.1
60°-70°	53.2	6.2
70°-80°	17.2	2.0
80°-90°	2.0	0.2
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°	345.9	40.0
0°-40°	532.2	61.6
0°-60°	792.3	91.6
0°-90°	864.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	864.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	475	475	475	475	475	
5°	475	474	471	467	466	45
15°	458	453	440	431	430	129
25°	418	403	378	370	369	192
35°	326	312	290	287	288	203
45°	212	206	196	197	198	164
55°	129	123	115	111	108	116
65°	73	66	54	39	33	73
75°	31	24	12	6	6	33
85°	3	2	0	1	1	5
90°	0	0	0	0	0	



TEST NUMBER: P563894

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBLWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	476.5	476.5	476.5	476.5	476.5	476.5	476.3	476.3	475.9	475.9	475.8
5°	475.1	475.3	475.3	475.1	475.1	474.8	474.8	474.7	474.2	473.9	473.7
7.5°	472.5	472.5	472.3	472.2	472.0	471.5	471.4	470.9	470.6	470.3	469.5
10°	468.3	468.3	468.1	467.8	467.7	467.3	467.3	466.7	466.1	465.3	464.8
12.5°	463.3	463.5	463.2	463.0	462.5	462.4	462.1	461.3	460.8	459.9	459.1
15°	457.6	457.9	457.9	457.2	456.8	456.6	456.1	455.7	454.6	453.6	452.7
17.5°	452.0	452.3	452.0	451.5	451.0	450.4	450.1	449.1	447.7	446.4	445.0
20°	444.2	444.6	444.0	443.2	442.3	442.1	441.7	440.0	437.9	436.1	433.9
22.5°	433.1	432.8	432.3	432.0	430.5	429.5	428.9	426.7	424.5	421.9	419.4
25°	418.0	418.6	417.7	416.2	415.4	414.5	412.9	410.6	408.5	405.9	402.8
27.5°	400.1	400.1	398.8	398.3	396.6	395.3	394.5	392.2	389.5	386.8	383.5
30°	379.5	378.5	378.5	376.3	374.8	374.3	373.5	369.9	367.5	364.6	361.2
32.5°	354.5	354.4	353.8	352.4	350.4	348.8	348.8	346.3	343.0	339.5	337.4
35°	325.8	325.9	325.6	324.0	324.0	322.1	321.7	319.5	317.0	314.3	311.8
37.5°	296.1	296.7	296.1	295.3	294.8	294.6	293.2	291.6	289.7	288.1	286.1
40°	267.3	266.3	266.7	265.1	265.2	264.9	264.3	262.2	261.1	259.5	257.4
42.5°	236.3	237.3	237.6	236.6	236.3	235.7	236.3	235.5	234.3	233.4	231.5
45°	211.6	210.6	211.1	210.8	210.9	209.6	209.1	208.8	208.3	206.9	206.1
47.5°	187.0	187.1	187.0	186.2	185.9	185.9	185.3	184.4	184.4	183.4	182.8
50°	165.5	165.5	165.8	165.1	164.7	164.1	164.3	163.3	162.7	161.8	161.3
52.5°	145.9	146.1	145.4	145.6	145.3	145.3	144.6	143.9	143.3	141.9	141.6
55°	129.1	129.3	128.5	128.8	127.9	127.4	127.0	126.0	126.0	124.6	122.9
57.5°	113.4	113.3	113.1	112.6	112.0	111.5	111.1	110.0	109.5	108.5	107.0
60°	98.9	98.8	98.5	98.3	97.8	96.6	96.6	95.8	94.3	93.3	91.9
62.5°	85.1	85.1	85.0	84.5	84.0	83.6	83.2	82.6	81.0	79.9	78.6
65°	73.1	73.0	72.5	71.7	71.4	71.4	70.3	69.8	68.6	67.4	66.0
67.5°	61.6	61.0	60.7	60.8	59.9	59.9	59.0	58.2	57.1	55.1	54.0
70°	50.5	50.1	49.8	49.5	49.3	48.7	48.2	47.3	46.2	44.8	43.0
72.5°	40.4	40.4	40.0	39.7	39.2	38.6	38.1	37.4	36.1	34.5	33.3
75°	30.8	30.8	30.8	30.2	29.9	29.6	28.6	28.1	26.7	25.7	24.1
77.5°	22.7	22.4	21.9	21.8	21.4	21.1	20.6	19.8	18.5	17.4	16.5
80°	14.3	14.9	14.3	14.3	13.6	13.2	13.1	12.1	11.7	10.7	9.9
82.5°	8.0	8.1	7.8	7.6	7.2	7.0	7.0	6.4	6.1	5.4	5.0
85°	2.8	3.1	2.8	2.8	2.5	2.7	2.5	2.4	2.0	1.7	1.6
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P563894

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	475.8	475.5	475.5	475.3	475.1	475.1	475.1	475.0	474.7	474.7	474.5
5°	473.4	473.1	472.6	472.3	472.2	472.0	471.8	471.7	471.1	470.9	470.4
7.5°	469.1	468.8	468.0	467.7	467.2	467.0	466.4	466.1	465.5	464.8	464.5
10°	463.9	463.2	462.5	461.7	461.4	461.0	460.2	459.2	458.8	457.9	457.2
12.5°	458.2	457.2	456.0	455.0	454.7	453.9	452.7	451.8	450.7	449.5	448.4
15°	451.0	449.9	448.8	447.1	446.6	445.6	444.3	442.8	441.2	439.8	438.6
17.5°	443.2	441.5	439.7	437.8	436.4	435.9	433.8	431.6	430.1	427.8	426.4
20°	432.2	429.8	426.9	425.0	423.8	422.2	419.9	417.5	415.7	413.8	411.8
22.5°	417.1	414.8	411.5	408.5	407.6	405.6	403.4	401.2	398.9	396.9	394.4
25°	399.1	396.7	393.4	390.5	388.9	388.0	384.0	381.8	379.5	377.7	376.0
27.5°	380.7	376.5	374.2	369.8	368.3	367.9	364.3	361.9	359.5	357.1	354.9
30°	358.1	354.7	351.3	348.2	346.3	345.1	342.4	339.3	337.8	336.2	333.9
32.5°	334.6	331.5	327.3	324.4	322.9	321.3	318.9	316.9	314.4	312.7	312.2
35°	309.5	306.2	302.6	300.4	300.1	298.1	295.7	294.0	292.2	289.5	289.0
37.5°	282.7	280.7	278.3	275.2	273.7	273.7	271.3	270.1	267.8	267.6	266.3
40°	256.2	255.5	251.9	250.8	250.5	248.3	247.7	245.5	243.8	243.6	241.8
42.5°	230.2	228.2	227.5	225.9	224.5	224.2	222.8	221.7	221.1	220.1	219.2
45°	204.4	203.8	202.3	201.2	200.7	200.1	199.6	197.6	197.3	196.5	196.0
47.5°	182.0	180.8	179.2	178.0	177.8	176.9	175.8	175.8	174.0	173.8	173.5
50°	159.8	158.8	158.0	156.2	156.5	155.3	155.1	153.7	152.9	152.3	153.1
52.5°	140.3	138.3	138.0	136.6	136.1	136.3	134.6	134.1	133.8	133.0	132.7
55°	121.8	120.7	119.5	118.5	117.8	117.0	116.4	116.4	114.5	114.7	113.9
57.5°	105.5	104.7	103.0	101.6	101.3	100.3	99.6	98.8	98.6	97.4	96.6
60°	90.9	89.5	87.4	86.8	85.7	85.0	84.2	83.2	82.8	82.0	80.6
62.5°	77.3	75.0	74.2	72.8	71.7	71.3	70.0	68.9	68.1	66.9	65.8
65°	64.4	62.7	61.2	59.7	59.6	58.3	57.2	56.3	54.6	53.7	51.6
67.5°	52.6	51.0	49.3	47.9	46.8	46.5	44.8	43.6	42.5	40.6	38.9
70°	41.7	40.1	38.9	37.0	36.6	35.3	34.1	33.0	31.0	29.2	27.8
72.5°	31.8	30.0	28.6	27.4	26.5	25.4	24.1	22.9	21.0	19.1	17.9
75°	22.7	21.4	19.9	18.7	18.0	17.4	16.0	14.5	13.2	11.5	10.4
77.5°	15.4	14.0	12.8	11.7	10.9	10.4	9.5	8.3	7.2	6.2	5.4
80°	9.0	8.1	7.2	6.2	6.1	5.6	4.8	4.2	3.6	3.1	2.4
82.5°	4.3	3.9	3.2	2.7	2.4	2.2	1.9	1.6	1.3	1.1	1.1
85°	1.3	1.1	0.9	0.8	0.6	0.6	0.5	0.5	0.5	0.5	0.5
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P563894

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	474.0	473.9	473.7	473.6	473.3	473.3	472.8	472.5	472.5	472.2	472.0
5°	469.9	469.4	469.2	468.9	468.6	468.4	467.8	467.7	467.3	467.0	467.0
7.5°	463.9	463.3	462.7	462.4	462.2	461.7	461.4	461.3	460.8	460.5	459.9
10°	456.1	455.7	454.9	454.6	454.3	453.9	453.2	452.7	452.5	452.1	451.8
12.5°	447.1	446.4	445.6	445.0	444.6	444.2	443.4	442.9	442.9	442.3	442.3
15°	437.3	436.4	435.0	434.2	434.1	433.1	432.5	431.9	431.1	430.8	430.8
17.5°	424.9	423.3	421.9	421.9	421.3	420.4	419.4	419.0	418.5	417.9	417.5
20°	410.1	409.0	407.6	407.6	406.2	405.9	404.8	404.7	403.6	403.7	403.3
22.5°	392.4	391.7	391.0	390.3	389.5	388.6	388.1	388.3	387.8	387.7	387.5
25°	374.5	372.8	371.8	371.5	371.2	370.4	370.1	369.9	369.9	369.4	369.5
27.5°	353.9	352.7	351.3	351.8	351.2	350.7	350.4	349.9	350.2	350.1	350.2
30°	332.8	331.2	330.4	330.7	330.6	329.3	330.0	329.8	330.0	330.0	330.3
32.5°	310.7	309.5	309.3	309.5	308.0	308.2	307.6	308.5	308.7	309.6	308.8
35°	288.1	287.5	286.3	286.1	286.3	286.1	286.1	286.7	286.6	287.6	287.3
37.5°	264.9	264.6	263.5	263.8	263.1	264.3	264.6	264.3	265.4	265.1	264.9
40°	242.2	241.8	241.1	242.4	241.6	241.0	242.1	241.1	241.4	242.4	242.4
42.5°	219.2	218.4	218.4	218.4	218.3	218.3	218.7	219.2	218.9	219.0	220.3
45°	196.0	195.9	195.4	195.7	195.6	196.3	196.3	196.7	197.3	197.9	197.6
47.5°	173.6	173.3	173.8	173.5	173.6	173.2	173.5	174.4	175.3	174.1	175.3
50°	152.8	152.1	152.0	152.4	152.3	152.1	152.4	152.4	152.1	152.1	153.2
52.5°	132.7	132.1	131.6	132.4	131.9	132.1	131.5	131.5	131.8	131.5	131.0
55°	114.1	113.6	113.0	113.3	112.5	112.3	111.7	111.7	111.2	110.9	110.0
57.5°	96.2	95.8	94.4	94.3	94.4	93.3	92.2	91.8	90.4	90.1	89.9
60°	80.4	78.6	77.8	76.9	76.2	75.8	74.5	73.6	71.7	70.6	70.5
62.5°	63.9	63.1	62.2	60.7	60.4	58.8	57.5	55.4	54.5	53.0	51.6
65°	50.7	48.6	47.1	46.4	45.1	43.6	42.2	40.0	38.9	37.0	35.6
67.5°	37.0	35.3	33.4	32.8	31.6	29.9	28.5	26.5	25.5	24.0	23.5
70°	25.4	23.8	22.4	21.4	20.6	18.8	17.4	16.8	15.9	15.5	15.5
72.5°	16.3	14.9	13.2	12.8	12.1	11.2	10.3	9.9	10.3	10.1	10.1
75°	9.2	8.3	7.2	6.7	6.7	6.4	6.2	6.2	6.2	6.2	6.2
77.5°	4.7	4.2	3.9	3.7	3.7	3.7	3.9	3.9	3.9	4.0	3.9
80°	2.2	2.0	2.0	2.0	2.2	2.2	2.2	2.2	2.2	2.4	2.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3
85°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P563894

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	471.8	471.5	471.5	471.4	471.4	471.4	471.4	471.5
5°	466.7	466.6	466.6	466.2	466.2	466.2	466.2	466.2
7.5°	459.9	459.5	459.7	459.4	459.4	459.5	459.4	459.2
10°	451.3	451.2	451.3	451.3	451.0	450.9	451.0	451.2
12.5°	441.8	441.7	441.3	441.5	441.5	441.3	441.2	440.9
15°	430.6	430.5	430.3	430.1	430.0	430.1	430.0	429.7
17.5°	417.5	417.5	417.4	417.2	417.1	416.7	416.8	417.4
20°	403.4	403.3	402.9	403.1	402.5	402.2	402.3	402.8
22.5°	387.2	386.8	387.1	386.6	386.6	386.8	386.6	386.3
25°	369.8	369.0	369.4	369.5	369.5	369.4	369.2	369.4
27.5°	350.2	350.7	350.7	350.4	350.8	350.2	350.5	350.7
30°	330.3	329.8	329.6	330.3	331.2	330.4	330.4	330.6
32.5°	309.6	309.0	309.0	309.3	309.1	309.1	309.8	309.0
35°	287.6	287.9	286.6	287.5	287.8	287.5	287.6	287.6
37.5°	265.4	265.1	265.1	265.1	265.6	265.6	265.9	265.7
40°	243.5	242.9	242.7	243.0	242.4	242.9	242.9	242.4
42.5°	219.8	220.0	220.8	220.0	220.1	220.0	219.7	219.5
45°	197.9	198.5	198.2	197.9	198.2	197.4	197.6	198.2
47.5°	174.8	175.8	174.8	175.5	175.3	175.0	174.7	174.0
50°	153.1	153.4	153.2	153.1	152.9	152.8	152.0	151.5
52.5°	130.8	130.8	130.8	130.8	129.3	130.1	129.7	128.8
55°	109.1	109.7	108.9	108.9	107.8	107.8	107.5	107.7
57.5°	88.2	87.7	87.3	87.3	86.2	85.6	85.1	84.5
60°	68.7	68.3	67.5	66.8	65.7	65.7	65.3	64.1
62.5°	50.4	49.5	49.0	48.4	47.5	46.8	46.4	46.7
65°	34.5	33.7	33.1	33.1	33.1	32.8	32.6	32.6
67.5°	22.7	23.2	22.9	23.2	23.2	22.9	22.7	23.0
70°	15.7	15.7	15.5	15.5	15.5	15.5	15.4	15.5
72.5°	10.1	10.1	10.1	10.3	10.1	10.1	10.3	10.3
75°	6.4	6.4	6.4	6.5	6.4	6.4	6.5	6.4
77.5°	3.9	4.0	4.0	4.0	4.0	3.9	4.0	4.0
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)