

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: P#

Luminaire Tested: **LX6C10D010 EX6C109030 6LBSQLWWH**

Issue Date: 2/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C10D010 EX6C109030 6LBSQLWWH  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBSQLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

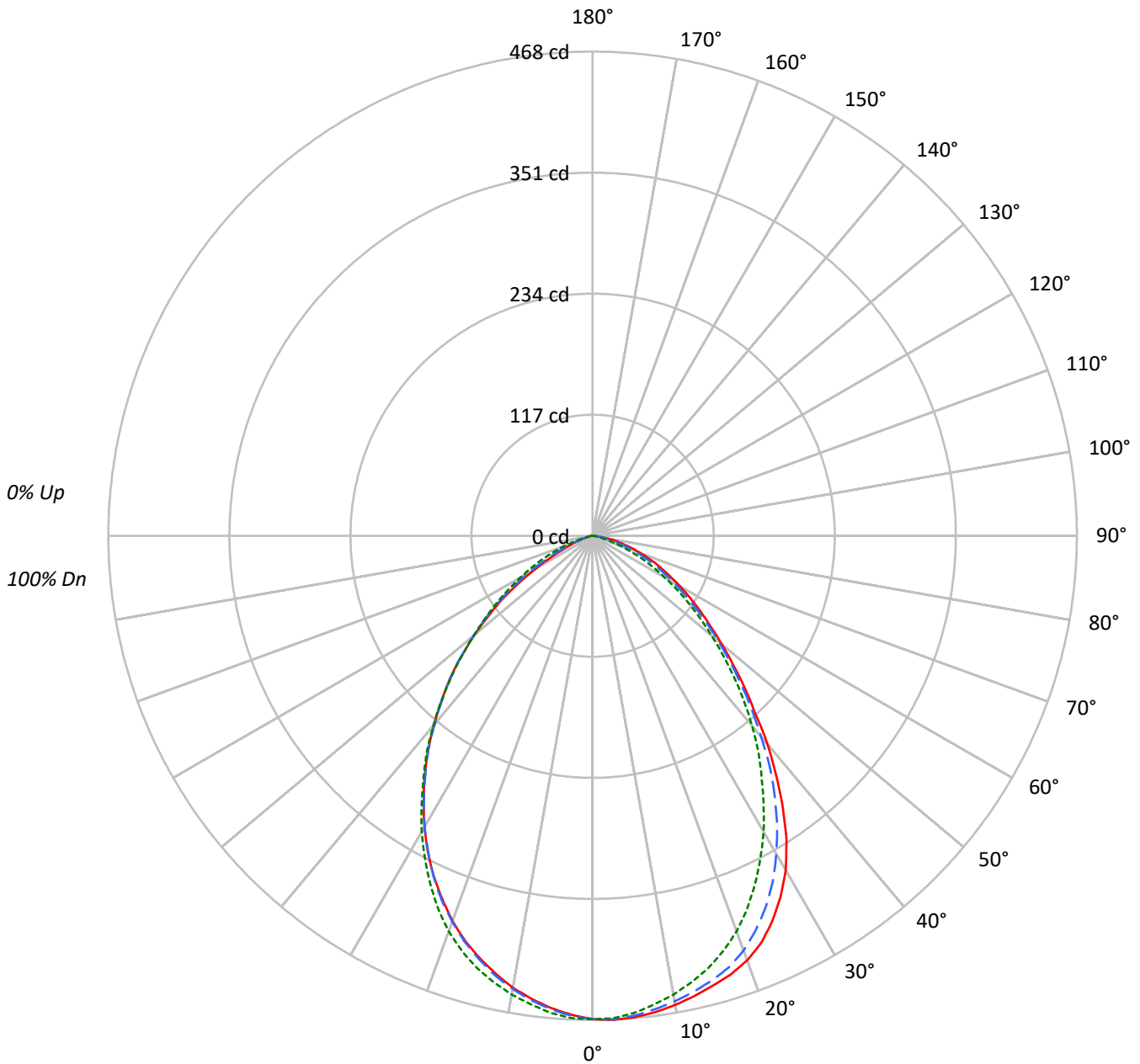
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 850.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Rectangular (W 0.5' x L: 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: P#

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBSQLWWH

### Luminous Intensity Polar Plot





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**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	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°	20120	20120	20120
5°	20188	20007	19808
10°	20129	19683	19394
15°	20054	19274	18828
20°	20009	18639	18144
25°	19520	17639	17254
30°	18549	16431	16158
35°	16835	14959	14859
40°	14771	13461	13394
45°	12665	11764	11861
50°	10898	10027	9974
55°	9526	8467	7949
60°	8370	6941	5425
65°	7325	5379	3260
70°	6244	3613	1913
75°	5041	1880	1048
80°	3496	744	595
85°	1383	247	296



TEST NUMBER: P#

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBSQLWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.8	5.2
10°-20°	122.3	14.4
20°-30°	174.0	20.5
30°-40°	183.1	21.5
40°-50°	152.6	18.0
50°-60°	103.1	12.1
60°-70°	52.3	6.2
70°-80°	16.9	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°	340.1	40.0
0°-40°	523.2	61.5
0°-60°	778.9	91.6
0°-90°	850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	850.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	467	467	467	467	467	
5°	467	466	463	459	458	44
15°	450	445	432	424	422	127
25°	411	396	371	364	363	188
35°	320	306	285	282	283	199
45°	208	203	193	194	195	161
55°	127	121	113	109	106	114
65°	72	65	53	38	32	72
75°	30	24	11	6	6	33
85°	3	2	0	1	1	5
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBSQLWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	468.4	468.4	468.4	468.4	468.4	468.4	468.2	468.2	467.9	467.9	467.8
5°	467.1	467.3	467.3	467.1	467.1	466.8	466.8	466.7	466.2	465.9	465.7
7.5°	464.5	464.5	464.3	464.2	464.0	463.5	463.4	462.9	462.6	462.3	461.6
10°	460.4	460.4	460.2	459.9	459.8	459.4	459.4	458.8	458.2	457.4	456.9
12.5°	455.5	455.7	455.4	455.2	454.7	454.6	454.3	453.5	453.0	452.1	451.3
15°	449.9	450.2	450.2	449.5	449.1	448.9	448.4	448.0	446.9	445.9	445.0
17.5°	444.4	444.7	444.4	443.9	443.4	442.8	442.5	441.5	440.1	438.9	437.5
20°	436.7	437.1	436.5	435.7	434.8	434.6	434.2	432.6	430.5	428.7	426.6
22.5°	425.8	425.5	425.0	424.7	423.2	422.2	421.6	419.5	417.3	414.8	412.3
25°	410.9	411.5	410.6	409.2	408.4	407.5	405.9	403.7	401.6	399.0	396.0
27.5°	393.3	393.3	392.1	391.6	389.9	388.6	387.8	385.6	382.9	380.3	377.0
30°	373.1	372.1	372.1	369.9	368.5	368.0	367.2	363.6	361.3	358.4	355.1
32.5°	348.5	348.4	347.8	346.4	344.5	342.9	342.9	340.4	337.2	333.8	331.7
35°	320.3	320.4	320.1	318.5	318.5	316.7	316.3	314.1	311.6	309.0	306.5
37.5°	291.1	291.7	291.1	290.3	289.8	289.6	288.2	286.7	284.8	283.2	281.3
40°	262.8	261.8	262.2	260.6	260.7	260.4	259.8	257.8	256.7	255.1	253.0
42.5°	232.3	233.3	233.6	232.6	232.3	231.7	232.3	231.5	230.3	229.5	227.6
45°	208.0	207.0	207.5	207.2	207.3	206.1	205.6	205.3	204.8	203.4	202.6
47.5°	183.8	183.9	183.8	183.1	182.8	182.8	182.2	181.3	181.3	180.3	179.7
50°	162.7	162.7	163.0	162.3	161.9	161.3	161.5	160.5	159.9	159.1	158.6
52.5°	143.4	143.6	142.9	143.1	142.8	142.8	142.2	141.5	140.9	139.5	139.2
55°	126.9	127.1	126.3	126.6	125.7	125.2	124.9	123.9	123.9	122.5	120.8
57.5°	111.5	111.4	111.2	110.7	110.1	109.6	109.2	108.1	107.6	106.7	105.2
60°	97.2	97.1	96.8	96.6	96.1	95.0	95.0	94.2	92.7	91.7	90.3
62.5°	83.7	83.7	83.6	83.1	82.6	82.2	81.8	81.2	79.6	78.5	77.3
65°	71.9	71.8	71.3	70.5	70.2	70.2	69.1	68.6	67.4	66.3	64.9
67.5°	60.6	60.0	59.7	59.8	58.9	58.9	58.0	57.2	56.1	54.2	53.1
70°	49.6	49.3	49.0	48.7	48.5	47.9	47.4	46.5	45.4	44.0	42.3
72.5°	39.7	39.7	39.3	39.0	38.5	37.9	37.5	36.8	35.5	33.9	32.7
75°	30.3	30.3	30.3	29.7	29.4	29.1	28.1	27.6	26.2	25.3	23.7
77.5°	22.3	22.0	21.5	21.4	21.0	20.7	20.3	19.5	18.2	17.1	16.2
80°	14.1	14.6	14.1	14.1	13.4	13.0	12.9	11.9	11.5	10.5	9.7
82.5°	7.9	8.0	7.7	7.5	7.1	6.9	6.9	6.3	6.0	5.3	4.9
85°	2.8	3.0	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: P#

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	467.8	467.5	467.5	467.3	467.1	467.1	467.1	467.0	466.7	466.7	466.5
5°	465.4	465.1	464.6	464.3	464.2	464.0	463.8	463.7	463.1	462.9	462.4
7.5°	461.2	460.9	460.1	459.8	459.3	459.1	458.5	458.2	457.6	456.9	456.6
10°	456.1	455.4	454.7	453.9	453.6	453.2	452.4	451.4	451.0	450.2	449.5
12.5°	450.5	449.5	448.3	447.3	447.0	446.2	445.0	444.2	443.1	441.9	440.8
15°	443.4	442.3	441.2	439.5	439.0	438.1	436.8	435.3	433.7	432.4	431.2
17.5°	435.7	434.0	432.3	430.4	429.0	428.5	426.5	424.3	422.8	420.6	419.2
20°	424.9	422.5	419.7	417.8	416.6	415.1	412.8	410.4	408.7	406.8	404.8
22.5°	410.0	407.8	404.5	401.6	400.7	398.7	396.6	394.4	392.2	390.2	387.7
25°	392.4	390.0	386.7	383.9	382.3	381.4	377.5	375.3	373.1	371.3	369.6
27.5°	374.3	370.1	367.9	363.5	362.1	361.7	358.1	355.8	353.4	351.1	348.9
30°	352.0	348.7	345.4	342.3	340.4	339.3	336.6	333.6	332.1	330.5	328.3
32.5°	328.9	325.9	321.8	318.9	317.4	315.9	313.5	311.5	309.1	307.4	306.9
35°	304.3	301.0	297.5	295.3	295.0	293.1	290.7	289.0	287.3	284.6	284.1
37.5°	277.9	276.0	273.6	270.5	269.1	269.1	266.7	265.5	263.3	263.1	261.8
40°	251.9	251.2	247.6	246.6	246.3	244.1	243.5	241.3	239.7	239.5	237.7
42.5°	226.3	224.3	223.7	222.1	220.7	220.4	219.0	218.0	217.4	216.4	215.5
45°	200.9	200.4	198.9	197.8	197.3	196.7	196.2	194.3	194.0	193.2	192.7
47.5°	178.9	177.7	176.2	175.0	174.8	173.9	172.8	172.8	171.1	170.9	170.6
50°	157.1	156.1	155.3	153.6	153.9	152.7	152.5	151.1	150.3	149.7	150.5
52.5°	137.9	136.0	135.7	134.3	133.8	134.0	132.3	131.8	131.5	130.8	130.5
55°	119.7	118.7	117.5	116.5	115.8	115.0	114.4	114.4	112.6	112.8	112.0
57.5°	103.7	102.9	101.3	99.9	99.6	98.6	97.9	97.1	96.9	95.8	95.0
60°	89.4	88.0	85.9	85.3	84.3	83.6	82.8	81.8	81.4	80.6	79.2
62.5°	76.0	73.7	72.9	71.6	70.5	70.1	68.8	67.7	66.9	65.8	64.7
65°	63.3	61.6	60.2	58.7	58.6	57.3	56.2	55.3	53.7	52.8	50.7
67.5°	51.7	50.1	48.5	47.1	46.0	45.7	44.0	42.9	41.8	39.9	38.2
70°	41.0	39.4	38.2	36.4	36.0	34.7	33.5	32.4	30.5	28.7	27.3
72.5°	31.3	29.5	28.1	26.9	26.1	25.0	23.7	22.5	20.6	18.8	17.6
75°	22.3	21.0	19.6	18.4	17.7	17.1	15.7	14.3	13.0	11.3	10.2
77.5°	15.1	13.8	12.6	11.5	10.7	10.2	9.3	8.2	7.1	6.1	5.3
80°	8.8	8.0	7.1	6.1	6.0	5.5	4.7	4.1	3.5	3.0	2.4
82.5°	4.2	3.8	3.1	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: P#

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	466.0	465.9	465.7	465.6	465.3	465.3	464.8	464.5	464.5	464.2	464.0
5°	462.0	461.5	461.3	461.0	460.7	460.5	459.9	459.8	459.4	459.1	459.1
7.5°	456.1	455.5	454.9	454.6	454.4	453.9	453.6	453.5	453.0	452.7	452.1
10°	448.4	448.0	447.2	446.9	446.6	446.2	445.5	445.0	444.8	444.5	444.2
12.5°	439.5	438.9	438.1	437.5	437.1	436.7	435.9	435.4	435.4	434.8	434.8
15°	429.9	429.0	427.6	426.9	426.8	425.8	425.2	424.6	423.8	423.5	423.5
17.5°	417.7	416.1	414.8	414.8	414.2	413.3	412.3	411.9	411.4	410.8	410.4
20°	403.2	402.1	400.7	400.7	399.3	399.0	398.0	397.9	396.8	396.9	396.5
22.5°	385.8	385.1	384.4	383.7	382.9	382.0	381.5	381.7	381.2	381.1	380.9
25°	368.2	366.5	365.5	365.2	364.9	364.1	363.8	363.6	363.6	363.2	363.3
27.5°	347.9	346.7	345.4	345.9	345.3	344.8	344.5	344.0	344.3	344.2	344.3
30°	327.2	325.6	324.8	325.1	325.0	323.7	324.4	324.2	324.4	324.4	324.7
32.5°	305.4	304.3	304.1	304.3	302.8	303.0	302.4	303.3	303.5	304.4	303.6
35°	283.2	282.6	281.5	281.3	281.5	281.3	281.3	281.9	281.8	282.7	282.4
37.5°	260.4	260.1	259.0	259.3	258.7	259.8	260.1	259.8	260.9	260.6	260.4
40°	238.1	237.7	237.0	238.3	237.5	236.9	238.0	237.0	237.3	238.3	238.3
42.5°	215.5	214.7	214.7	214.7	214.6	214.6	215.0	215.5	215.2	215.3	216.6
45°	192.7	192.6	192.1	192.4	192.3	193.0	193.0	193.4	194.0	194.6	194.3
47.5°	170.7	170.4	170.9	170.6	170.7	170.3	170.6	171.5	172.3	171.2	172.3
50°	150.2	149.5	149.4	149.8	149.7	149.5	149.8	149.8	149.5	149.5	150.6
52.5°	130.5	129.9	129.4	130.2	129.7	129.9	129.3	129.3	129.6	129.3	128.8
55°	112.2	111.7	111.1	111.4	110.6	110.4	109.8	109.8	109.3	109.0	108.1
57.5°	94.6	94.2	92.8	92.7	92.8	91.7	90.6	90.2	88.9	88.6	88.4
60°	79.0	77.3	76.5	75.6	74.9	74.5	73.2	72.4	70.5	69.4	69.3
62.5°	62.8	62.0	61.1	59.7	59.4	57.8	56.5	54.5	53.6	52.1	50.7
65°	49.8	47.8	46.3	45.6	44.3	42.9	41.5	39.3	38.2	36.4	35.0
67.5°	36.4	34.7	32.8	32.2	31.1	29.4	28.0	26.1	25.1	23.6	23.1
70°	25.0	23.4	22.0	21.0	20.3	18.5	17.1	16.5	15.6	15.2	15.2
72.5°	16.0	14.6	13.0	12.6	11.9	11.0	10.1	9.7	10.1	9.9	9.9
75°	9.0	8.2	7.1	6.6	6.6	6.3	6.1	6.1	6.1	6.1	6.1
77.5°	4.6	4.1	3.8	3.6	3.6	3.6	3.8	3.8	3.8	3.9	3.8
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: P#

CATALOG NUMBER: LX6C10D010 EX6C109030 6LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	463.8	463.5	463.5	463.4	463.4	463.4	463.4	463.5
5°	458.8	458.7	458.7	458.3	458.3	458.3	458.3	458.3
7.5°	452.1	451.7	451.9	451.6	451.6	451.7	451.6	451.4
10°	443.7	443.6	443.7	443.7	443.4	443.3	443.4	443.6
12.5°	434.3	434.2	433.8	434.0	434.0	433.8	433.7	433.4
15°	423.3	423.2	423.0	422.8	422.7	422.8	422.7	422.4
17.5°	410.4	410.4	410.3	410.1	410.0	409.7	409.8	410.3
20°	396.6	396.5	396.1	396.3	395.7	395.4	395.5	396.0
22.5°	380.7	380.3	380.6	380.1	380.1	380.3	380.1	379.8
25°	363.5	362.8	363.2	363.3	363.3	363.2	363.0	363.2
27.5°	344.3	344.8	344.8	344.5	344.9	344.3	344.6	344.8
30°	324.7	324.2	324.0	324.7	325.6	324.8	324.8	325.0
32.5°	304.4	303.8	303.8	304.1	303.9	303.9	304.6	303.8
35°	282.7	283.0	281.8	282.6	282.9	282.6	282.7	282.7
37.5°	260.9	260.6	260.6	260.6	261.1	261.1	261.4	261.2
40°	239.4	238.8	238.6	238.9	238.3	238.8	238.8	238.3
42.5°	216.1	216.3	217.1	216.3	216.4	216.3	216.0	215.8
45°	194.6	195.1	194.8	194.6	194.8	194.1	194.3	194.8
47.5°	171.8	172.8	171.8	172.5	172.3	172.0	171.7	171.1
50°	150.5	150.8	150.6	150.5	150.3	150.2	149.4	148.9
52.5°	128.6	128.6	128.6	128.6	127.1	127.9	127.5	126.6
55°	107.3	107.8	107.1	107.1	106.0	106.0	105.7	105.9
57.5°	86.7	86.2	85.8	85.8	84.7	84.2	83.7	83.1
60°	67.5	67.1	66.4	65.7	64.6	64.6	64.2	63.0
62.5°	49.5	48.7	48.2	47.6	46.7	46.0	45.6	45.9
65°	33.9	33.1	32.5	32.5	32.5	32.2	32.0	32.0
67.5°	22.3	22.8	22.5	22.8	22.8	22.5	22.3	22.6
70°	15.4	15.4	15.2	15.2	15.2	15.2	15.1	15.2
72.5°	9.9	9.9	9.9	10.1	9.9	9.9	10.1	10.1
75°	6.3	6.3	6.3	6.4	6.3	6.3	6.4	6.3
77.5°	3.8	3.9	3.9	3.9	3.9	3.8	3.9	3.9
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)