

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: P563912

Luminaire Tested: **LX6C20D010 EX6C209030 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563912  
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: LX6C20D010 EX6C209030 6LBLWWH  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

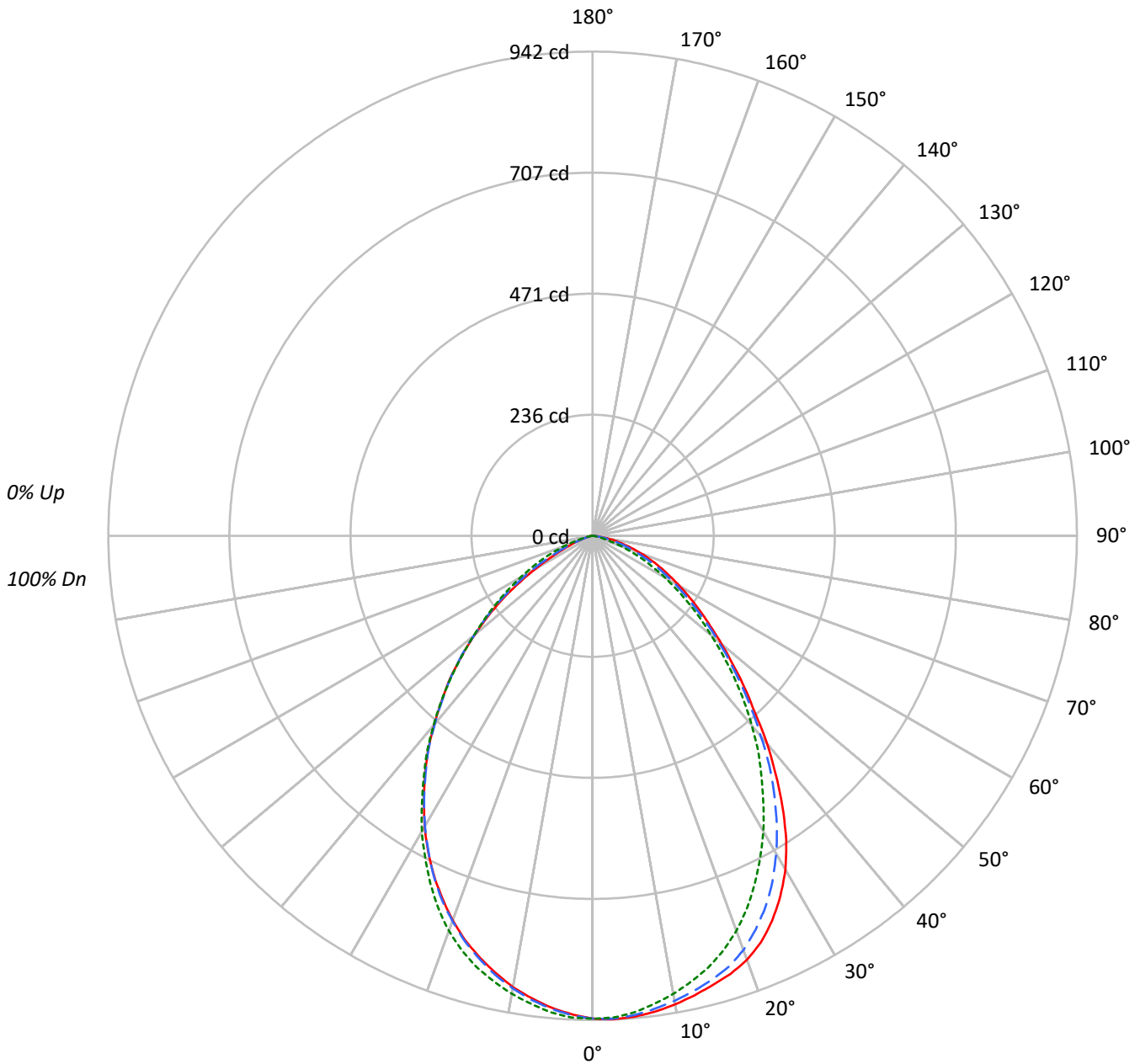
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1708.9 lumens  
Efficiency: N/A  
Efficacy: 78.4 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): 21.8  
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

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### 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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			33

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

	0°	90°	180°
0°	51504	51504	51504
5°	51684	51211	50710
10°	51524	50383	49643
15°	51328	49342	48196
20°	51215	47715	46449
25°	49969	45154	44162
30°	47476	42057	41354
35°	43092	38293	38039
40°	37807	34457	34286
45°	32414	30119	30360
50°	27897	25671	25534
55°	24381	21667	20339
60°	21435	17762	13880
65°	18757	13763	8354
70°	15996	9264	4905
75°	12899	4829	2669
80°	8966	1894	1515
85°	3585	566	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	5.2
10°-20°	245.8	14.4
20°-30°	349.8	20.5
30°-40°	368.2	21.5
40°-50°	306.8	18.0
50°-60°	207.3	12.1
60°-70°	105.1	6.2
70°-80°	33.9	2.0
80°-90°	3.9	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°	683.7	40.0
0°-40°	1051.8	61.6
0°-60°	1566.0	91.6
0°-90°	1708.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	940	940	940	940	940	
5°	939	936	931	924	922	89
15°	904	895	869	852	849	256
25°	826	796	746	731	730	379
35°	644	616	572	567	568	401
45°	418	407	388	390	392	324
55°	255	243	227	220	213	230
65°	145	130	106	77	64	144
75°	61	48	23	12	13	66
85°	6	3	1	1	1	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5
2.5°	941.7	941.7	941.7	941.7	941.7	941.7	941.4	941.4	940.7	940.7	940.4
5°	939.2	939.5	939.5	939.2	939.2	938.6	938.6	938.3	937.2	936.6	936.3
7.5°	933.8	933.8	933.5	933.2	932.9	931.9	931.6	930.6	930.0	929.4	928.1
10°	925.6	925.6	925.2	924.6	924.3	923.7	923.7	922.4	921.2	919.5	918.6
12.5°	915.8	916.1	915.5	915.2	914.3	914.0	913.2	911.7	910.7	908.9	907.2
15°	904.4	905.1	905.1	903.8	902.9	902.6	901.5	900.6	898.4	896.6	894.6
17.5°	893.4	894.0	893.4	892.4	891.5	890.3	889.5	887.7	884.9	882.3	879.5
20°	877.9	878.9	877.6	876.0	874.1	873.8	872.9	869.7	865.6	861.8	857.7
22.5°	856.1	855.5	854.5	853.9	850.8	848.9	847.6	843.5	839.1	834.0	828.9
25°	826.1	827.4	825.5	822.6	821.1	819.2	816.0	811.6	807.5	802.2	796.2
27.5°	790.8	790.8	788.2	787.3	783.8	781.3	779.7	775.3	769.9	764.5	757.9
30°	750.0	748.2	748.2	743.7	740.8	739.9	738.3	731.1	726.3	720.7	714.0
32.5°	700.7	700.4	699.1	696.4	692.5	689.4	689.4	684.4	678.0	671.0	667.0
35°	643.9	644.2	643.6	640.4	640.4	636.7	636.1	631.6	626.5	621.2	616.1
37.5°	585.2	586.4	585.2	583.6	582.7	582.3	579.5	576.3	572.6	569.3	565.6
40°	528.3	526.4	527.0	523.9	524.3	523.6	522.3	518.3	516.0	512.9	508.7
42.5°	467.1	468.9	469.5	467.7	467.1	465.8	467.1	465.5	462.9	461.4	457.5
45°	418.1	416.2	417.2	416.5	416.8	414.3	413.4	412.8	411.8	408.9	407.4
47.5°	369.4	369.8	369.4	368.2	367.6	367.6	366.3	364.5	364.5	362.5	361.3
50°	327.1	327.1	327.8	326.2	325.6	324.3	324.6	322.8	321.4	319.9	319.0
52.5°	288.3	288.7	287.4	287.7	287.1	287.1	285.8	284.5	283.3	280.4	279.8
55°	255.1	255.5	253.9	254.5	252.7	251.7	251.0	249.1	249.1	246.4	242.8
57.5°	224.2	223.9	223.6	222.7	221.3	220.4	219.5	217.3	216.4	214.4	211.6
60°	195.5	195.2	194.5	194.2	193.3	191.0	191.0	189.5	186.4	184.4	181.6
62.5°	168.3	168.3	168.0	167.0	166.1	165.2	164.5	163.3	160.1	157.9	155.3
65°	144.6	144.3	143.3	141.8	141.2	141.2	138.9	138.0	135.5	133.3	130.4
67.5°	121.9	120.6	120.0	120.3	118.4	118.4	116.6	114.9	112.7	108.9	106.7
70°	99.8	99.2	98.6	97.9	97.5	96.3	95.4	93.5	91.2	88.4	84.9
72.5°	79.9	79.9	78.9	78.3	77.4	76.1	75.5	73.8	71.4	68.3	65.7
75°	60.9	60.9	60.9	59.7	59.1	58.4	56.6	55.5	52.7	50.9	47.7
77.5°	44.9	44.2	43.2	42.9	42.3	41.7	40.7	39.2	36.6	34.4	32.6
80°	28.4	29.4	28.4	28.4	26.9	26.2	25.9	24.0	23.1	21.2	19.5
82.5°	15.8	16.1	15.5	15.2	14.2	13.9	13.9	12.6	12.0	10.8	9.8
85°	5.7	6.0	5.7	5.7	5.1	5.4	5.1	4.8	4.1	3.5	3.2
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5
2.5°	940.4	939.8	939.8	939.5	939.2	939.2	939.2	938.9	938.3	938.3	937.9
5°	935.7	935.1	934.1	933.5	933.2	932.9	932.6	932.3	930.9	930.6	929.7
7.5°	927.2	926.6	924.9	924.3	923.4	923.1	921.8	921.2	920.0	918.6	918.0
10°	917.1	915.5	914.3	912.6	912.0	911.1	909.5	907.5	906.6	905.1	903.8
12.5°	905.7	903.8	901.2	899.4	898.8	897.2	894.6	893.1	890.9	888.3	886.1
15°	891.5	889.2	887.1	883.6	882.6	880.8	878.3	875.1	871.9	869.4	866.9
17.5°	876.0	872.6	869.1	865.2	862.4	861.5	857.4	852.9	850.1	845.7	842.9
20°	854.2	849.5	843.8	840.0	837.5	834.6	829.9	825.2	821.7	817.9	813.8
22.5°	824.2	819.8	813.1	807.5	805.6	801.5	797.4	793.0	788.5	784.5	779.4
25°	788.8	784.2	777.4	771.7	768.6	766.8	758.8	754.5	750.0	746.5	743.1
27.5°	752.5	744.0	739.6	730.8	727.9	727.3	720.0	715.3	710.5	705.8	701.4
30°	707.7	701.1	694.4	688.1	684.4	682.1	676.7	670.7	667.6	664.4	660.0
32.5°	661.3	655.3	647.0	641.0	638.2	635.0	630.4	626.2	621.5	618.1	617.0
35°	611.6	605.0	598.1	593.7	593.0	589.3	584.6	581.0	577.6	572.2	571.3
37.5°	558.6	554.9	550.1	543.8	540.9	540.9	536.3	533.7	529.2	528.9	526.4
40°	506.6	504.9	497.7	495.8	495.2	490.7	489.5	485.1	481.9	481.5	477.8
42.5°	455.1	450.9	449.7	446.6	443.7	443.1	440.2	438.3	437.1	435.2	433.2
45°	403.9	402.9	399.8	397.6	396.6	395.4	394.5	390.6	390.0	388.5	387.5
47.5°	359.7	357.1	354.3	351.7	351.4	349.6	347.4	347.4	343.9	343.6	343.0
50°	315.8	313.9	312.3	308.8	309.4	307.0	306.7	303.8	302.2	301.0	302.5
52.5°	277.3	273.5	272.8	270.0	269.0	269.4	265.9	265.0	264.4	263.0	262.4
55°	240.7	238.7	236.2	234.4	232.7	231.2	229.9	229.9	226.4	226.7	225.2
57.5°	208.4	206.8	203.6	200.8	200.2	198.4	196.7	195.2	194.9	192.7	191.0
60°	179.6	176.9	172.7	171.5	169.6	168.0	166.4	164.5	163.6	162.0	159.2
62.5°	152.9	148.1	146.6	144.0	141.8	140.9	138.3	136.1	134.6	132.3	130.1
65°	127.3	123.8	120.9	118.1	117.8	115.2	113.0	111.2	108.0	106.1	102.0
67.5°	103.9	100.7	97.5	94.7	92.6	91.9	88.4	86.3	84.0	80.3	76.7
70°	82.4	79.2	76.7	73.2	72.3	69.8	67.2	65.1	61.2	57.8	54.9
72.5°	62.9	59.4	56.6	54.0	52.4	50.2	47.7	45.2	41.4	37.9	35.4
75°	44.9	42.3	39.5	36.9	35.7	34.4	31.5	28.8	26.2	22.8	20.5
77.5°	30.3	27.8	25.2	23.1	21.5	20.5	18.6	16.4	14.2	12.3	10.8
80°	17.7	16.1	14.2	12.3	12.0	11.1	9.5	8.2	6.9	6.0	4.8
82.5°	8.5	7.6	6.3	5.4	4.8	4.4	3.8	3.2	2.5	2.2	2.2
85°	2.5	2.2	1.9	1.6	1.2	1.2	0.9	0.9	0.9	0.9	0.9
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5
2.5°	936.9	936.6	936.3	936.0	935.4	935.4	934.4	933.8	933.8	933.2	932.9
5°	928.7	927.8	927.5	926.9	926.3	926.0	924.6	924.3	923.7	923.1	923.1
7.5°	917.1	915.8	914.6	914.0	913.5	912.6	912.0	911.7	910.7	910.1	908.9
10°	901.5	900.6	899.1	898.4	897.8	897.2	895.5	894.6	894.3	893.7	893.1
12.5°	883.6	882.3	880.8	879.5	878.9	877.9	876.3	875.4	875.4	874.1	874.1
15°	864.3	862.4	859.6	858.3	858.0	856.1	854.9	853.6	852.0	851.4	851.4
17.5°	839.7	836.5	834.0	834.0	832.8	830.8	828.9	828.0	827.1	825.8	825.2
20°	810.6	808.5	805.6	805.6	802.8	802.2	800.2	799.9	797.7	798.0	797.1
22.5°	775.6	774.3	772.8	771.4	769.9	768.0	767.1	767.4	766.5	766.2	765.8
25°	740.2	736.8	734.8	734.2	733.6	732.0	731.4	731.1	731.1	730.1	730.5
27.5°	699.5	697.0	694.4	695.4	694.1	693.1	692.5	691.6	692.2	691.9	692.2
30°	657.8	654.7	653.0	653.7	653.3	650.8	652.1	651.8	652.1	652.1	652.7
32.5°	613.9	611.6	611.3	611.6	608.9	609.2	607.9	609.8	610.1	612.0	610.4
35°	569.3	568.1	565.9	565.6	565.9	565.6	565.6	566.9	566.6	568.4	567.8
37.5°	523.6	522.9	520.7	521.4	520.1	522.3	522.9	522.3	524.6	523.9	523.6
40°	478.7	477.8	476.6	479.1	477.5	476.3	478.4	476.6	477.2	479.1	479.1
42.5°	433.2	431.7	431.7	431.7	431.4	431.4	432.3	433.2	432.6	432.9	435.5
45°	387.5	387.1	386.2	386.8	386.5	388.1	388.1	388.8	390.0	391.3	390.6
47.5°	343.3	342.6	343.6	343.0	343.3	342.3	343.0	344.8	346.5	344.2	346.5
50°	301.9	300.7	300.3	301.3	301.0	300.7	301.3	301.3	300.7	300.7	302.8
52.5°	262.4	261.1	260.2	261.8	260.8	261.1	259.9	259.9	260.5	259.9	259.0
55°	225.5	224.5	223.3	223.9	222.4	222.0	220.7	220.7	219.8	219.2	217.3
57.5°	190.1	189.5	186.7	186.4	186.7	184.4	182.2	181.3	178.7	178.1	177.8
60°	158.9	155.3	153.8	151.9	150.6	149.7	147.2	145.6	141.8	139.6	139.3
62.5°	126.3	124.7	122.9	120.0	119.4	116.2	113.7	109.6	107.7	104.9	102.0
65°	100.1	96.0	93.2	91.5	89.0	86.3	83.4	78.9	76.7	73.2	70.4
67.5°	73.2	69.8	66.0	64.7	62.6	59.1	56.3	52.4	50.6	47.4	46.4
70°	50.2	47.1	44.2	42.3	40.7	37.2	34.4	33.2	31.2	30.6	30.6
72.5°	32.2	29.4	26.2	25.2	24.0	22.1	20.2	19.5	20.2	19.9	19.9
75°	18.0	16.4	14.2	13.2	13.2	12.6	12.3	12.3	12.3	12.3	12.3
77.5°	9.2	8.2	7.6	7.2	7.2	7.2	7.6	7.6	7.6	7.9	7.6
80°	4.4	4.1	4.1	4.1	4.4	4.4	4.4	4.4	4.4	4.8	4.4
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5
85°	0.9	0.9	0.9	0.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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CATALOG NUMBER: LX6C20D010 EX6C209030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	939.5	939.5	939.5	939.5	939.5	939.5	939.5	939.5
2.5°	932.6	931.9	931.9	931.6	931.6	931.6	931.6	931.9
5°	922.4	922.1	922.1	921.5	921.5	921.5	921.5	921.5
7.5°	908.9	908.3	908.6	908.0	908.0	908.3	908.0	907.5
10°	892.1	891.8	892.1	892.1	891.5	891.2	891.5	891.8
12.5°	873.2	872.9	872.2	872.6	872.6	872.2	871.9	871.2
15°	851.1	850.8	850.5	850.1	849.8	850.1	849.8	849.2
17.5°	825.2	825.2	824.8	824.5	824.2	823.6	823.9	824.8
20°	797.4	797.1	796.5	796.8	795.5	794.8	795.1	796.2
22.5°	765.4	764.5	765.1	764.2	764.2	764.5	764.2	763.6
25°	730.8	729.4	730.1	730.5	730.5	730.1	729.8	730.1
27.5°	692.2	693.1	693.1	692.5	693.5	692.2	692.8	693.1
30°	652.7	651.8	651.5	652.7	654.7	653.0	653.0	653.3
32.5°	612.0	610.7	610.7	611.3	611.0	611.0	612.4	610.7
35°	568.4	569.0	566.6	568.1	568.7	568.1	568.4	568.4
37.5°	524.6	523.9	523.9	523.9	524.9	524.9	525.5	525.2
40°	481.2	480.0	479.7	480.3	479.1	480.0	480.0	479.1
42.5°	434.5	434.9	436.4	434.9	435.2	434.9	434.2	433.9
45°	391.3	392.2	391.6	391.3	391.6	390.3	390.6	391.6
47.5°	345.4	347.4	345.4	346.8	346.5	345.7	345.1	343.9
50°	302.5	303.1	302.8	302.5	302.2	301.9	300.3	299.4
52.5°	258.7	258.7	258.7	258.7	255.5	257.0	256.4	254.5
55°	215.6	216.7	215.3	215.3	213.2	213.2	212.5	212.8
57.5°	174.3	173.3	172.4	172.4	170.2	169.3	168.3	167.0
60°	135.8	134.9	133.6	132.0	129.8	129.8	129.2	126.6
62.5°	99.5	97.9	96.9	95.7	93.8	92.6	91.5	92.3
65°	68.3	66.6	65.4	65.4	65.4	64.7	64.4	64.4
67.5°	44.9	45.8	45.2	45.8	45.8	45.2	44.9	45.5
70°	30.9	30.9	30.6	30.6	30.6	30.6	30.3	30.6
72.5°	19.9	19.9	19.9	20.2	19.9	19.9	20.2	20.2
75°	12.6	12.6	12.6	12.9	12.6	12.6	12.9	12.6
77.5°	7.6	7.9	7.9	7.9	7.9	7.6	7.9	7.9
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)