

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: P245449

Luminaire Tested: **LSR8B15D010 EC8B15930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1300.4 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

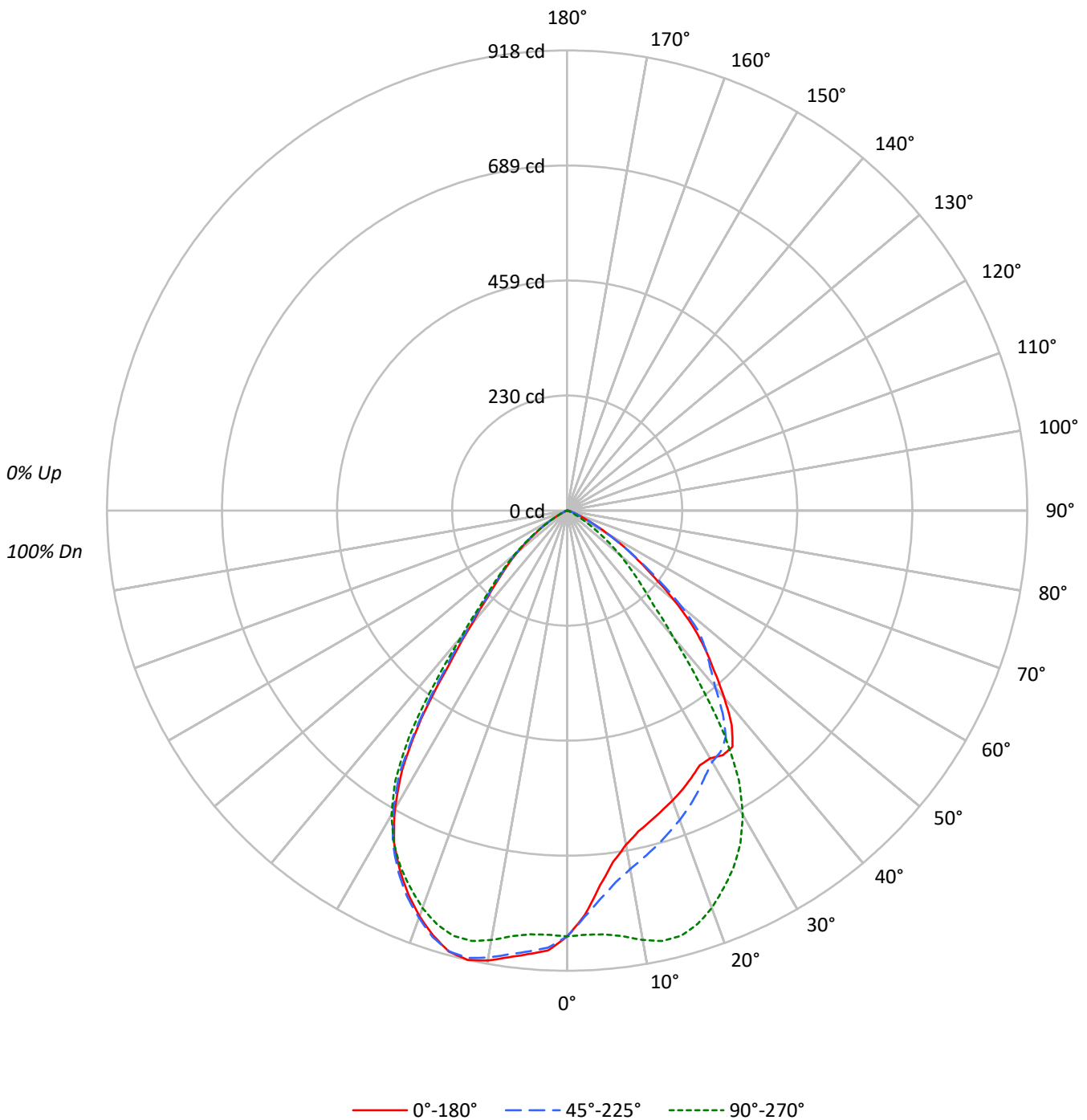
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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						
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82						
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74						
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67						
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60						
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55						
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50						
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46						
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42						
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	6.1
10°-20°	228.7	17.6
20°-30°	331.9	25.5
30°-40°	326.9	25.1
40°-50°	204.9	15.8
50°-60°	98.9	7.6
60°-70°	23.9	1.8
70°-80°	4.8	0.4
80°-90°	1.1	0.1
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°	639.8	49.2
0°-40°	966.7	74.3
0°-60°	1270.5	97.7
0°-90°	1300.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1300.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	850	850	850	850	850	
5°	751	776	848	883	888	69
15°	641	692	878	910	911	181
25°	588	618	786	796	790	272
35°	575	552	548	517	509	348
45°	388	391	207	199	193	297
55°	172	178	75	74	71	159
65°	40	40	11	10	8	46
75°	10	8	2	1	1	11
85°	3	2	0	0	0	3
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°	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5
2.5°	807.6	802.4	792.8	804.4	804.4	797.9	810.9	803.1	809.4	819.1	810.5
5°	750.8	746.6	738.5	750.8	752.4	746.4	762.1	756.2	765.3	777.4	776.3
7.5°	706.0	700.6	693.2	706.0	708.5	704.4	719.3	716.7	728.8	744.3	747.0
10°	676.7	671.1	664.6	676.3	678.1	675.4	690.5	689.0	700.8	718.9	726.1
12.5°	656.0	651.3	644.1	656.5	658.5	654.7	668.9	668.2	680.6	699.5	708.5
15°	641.4	635.9	629.4	639.9	642.6	638.3	652.0	650.6	663.1	681.9	691.9
17.5°	627.9	622.7	616.0	625.9	628.5	624.1	637.5	635.3	645.9	663.7	674.1
20°	615.1	609.6	603.5	613.5	615.1	610.0	623.4	620.5	630.1	646.6	656.7
22.5°	602.0	596.1	589.9	599.7	601.3	596.1	608.5	605.1	614.0	629.0	638.1
25°	587.5	582.1	575.9	585.0	586.4	580.8	593.7	589.4	597.3	610.5	618.0
27.5°	572.9	567.8	560.9	570.3	570.9	565.5	577.4	571.6	578.1	590.1	596.6
30°	570.5	564.6	557.6	565.1	565.3	558.5	569.6	562.7	566.2	575.2	579.0
32.5°	578.3	572.5	565.1	571.4	570.7	563.1	573.8	565.3	566.4	571.1	570.3
35°	575.2	568.2	559.6	566.2	566.2	557.1	567.8	557.8	556.7	557.4	551.8
37.5°	539.6	534.4	526.1	532.6	531.9	525.0	533.3	525.0	521.2	519.6	509.6
40°	487.5	481.0	474.7	481.7	482.4	475.0	485.7	476.3	475.2	470.7	458.9
42.5°	434.6	432.4	426.3	432.1	435.3	429.0	437.9	433.5	434.2	433.0	421.8
45°	388.3	384.6	380.1	386.9	388.8	385.7	394.6	391.9	394.6	400.2	391.0
47.5°	338.5	334.8	329.9	337.1	340.6	334.8	342.4	341.5	345.5	355.1	354.2
50°	278.6	275.9	275.0	275.9	278.1	275.4	280.8	281.0	283.7	296.8	297.7
52.5°	220.5	219.8	216.7	219.6	219.6	215.3	220.7	218.3	220.9	229.9	235.7
55°	172.5	171.8	169.8	172.5	169.6	168.0	169.6	167.1	165.1	172.1	178.1
57.5°	134.4	132.2	129.7	130.8	130.6	127.2	129.0	126.1	124.5	127.0	132.4
60°	95.7	95.1	92.8	93.9	94.8	92.4	94.2	92.8	90.1	92.1	92.4
62.5°	63.6	64.0	62.7	62.9	62.3	61.9	62.9	63.6	62.9	62.1	62.3
65°	40.4	40.1	39.9	40.1	40.6	39.7	40.4	40.8	40.1	40.1	39.9
67.5°	26.8	26.1	25.4	25.9	26.3	25.7	26.3	26.1	26.3	26.1	25.4
70°	18.0	17.8	17.6	17.8	17.8	17.4	17.8	17.6	17.8	17.6	16.9
72.5°	13.1	13.1	12.9	13.1	13.1	12.7	12.9	12.6	12.7	12.6	12.1
75°	9.9	9.9	9.6	9.9	9.6	9.4	9.6	9.4	9.0	9.0	8.5
77.5°	7.2	7.2	7.2	7.2	7.2	7.0	7.0	6.7	6.5	6.3	6.3
80°	5.4	5.2	5.2	5.2	5.2	4.9	5.2	4.9	4.7	4.5	4.3
82.5°	3.8	4.0	3.8	3.8	3.8	3.6	3.8	3.6	3.6	3.4	2.9
85°	2.9	2.9	2.9	2.9	2.9	2.7	2.7	2.7	2.5	2.5	2.2
87.5°	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.3	1.3	1.1	1.1
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°	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5
2.5°	822.0	823.2	820.7	824.5	839.2	827.4	832.3	833.9	845.0	847.0	845.7
5°	790.8	795.7	798.8	807.3	823.6	815.1	823.8	829.4	843.7	848.4	849.5
7.5°	766.2	776.5	784.1	797.9	817.1	810.7	823.8	833.0	850.4	856.4	859.4
10°	747.9	763.5	776.7	795.7	817.3	813.1	830.3	843.2	862.7	869.8	873.4
12.5°	734.1	753.1	770.7	794.8	818.2	816.2	837.1	851.7	872.3	879.4	883.7
15°	718.9	740.8	761.4	788.3	813.5	813.1	835.5	851.1	872.0	878.1	882.1
17.5°	700.8	724.3	746.8	776.1	801.1	801.5	824.0	839.4	860.0	864.9	867.5
20°	682.6	705.8	728.3	758.5	783.0	783.7	805.8	820.0	839.6	843.7	844.3
22.5°	663.1	684.8	707.4	737.3	760.9	761.4	783.2	796.6	813.3	815.3	817.1
25°	641.0	662.3	683.5	713.1	735.7	737.1	756.9	768.7	784.1	785.7	786.4
27.5°	618.0	635.5	655.8	681.2	704.0	703.1	721.8	735.3	749.1	748.2	747.9
30°	594.8	609.4	621.8	646.4	663.1	663.7	681.5	688.0	702.4	700.6	700.4
32.5°	578.5	582.4	585.7	598.2	614.0	608.5	620.5	628.5	638.5	638.0	638.1
35°	548.6	541.7	531.7	533.5	543.0	534.4	540.8	540.5	550.9	548.4	551.3
37.5°	497.5	477.9	455.6	442.8	444.6	433.7	431.5	436.9	440.3	433.5	436.0
40°	443.0	414.0	379.2	350.2	348.6	335.1	332.6	327.2	334.2	328.3	330.1
42.5°	402.9	364.4	318.7	283.5	275.9	264.4	257.8	256.9	259.0	254.9	253.8
45°	372.1	331.3	278.8	238.3	229.9	217.6	211.0	208.5	208.7	207.4	206.3
47.5°	336.0	294.8	241.7	200.4	190.8	179.2	172.5	171.0	171.8	170.1	168.7
50°	286.0	249.1	200.7	162.9	154.5	146.0	140.6	139.0	138.8	137.5	136.6
52.5°	232.2	201.6	159.6	128.1	120.5	112.3	108.5	106.5	106.7	105.4	104.0
55°	179.7	160.8	123.6	96.9	89.9	83.5	79.9	77.5	76.8	75.4	74.8
57.5°	133.7	121.0	92.6	69.8	65.8	59.6	56.0	53.1	52.7	52.0	51.8
60°	93.7	84.6	65.1	49.8	45.1	41.3	37.7	34.9	33.5	33.3	32.6
62.5°	60.8	55.2	42.8	33.3	29.7	27.0	23.4	21.4	20.5	19.6	19.8
65°	37.7	33.5	26.8	21.4	19.4	17.4	14.7	12.9	12.1	11.2	11.4
67.5°	23.4	21.0	16.9	13.8	12.6	11.0	9.0	7.6	7.0	6.3	5.8
70°	15.8	13.6	11.7	9.9	9.0	7.8	6.5	5.4	4.9	4.5	4.0
72.5°	11.2	10.1	8.5	7.4	6.7	5.8	4.9	4.3	3.8	3.4	2.9
75°	8.1	7.2	6.3	5.4	4.9	4.5	3.8	3.4	2.9	2.5	2.0
77.5°	5.8	5.2	4.5	4.0	3.8	3.1	2.7	2.5	2.2	1.8	1.3
80°	4.0	3.6	2.9	2.7	2.7	2.2	2.0	1.8	1.6	1.1	0.9
82.5°	2.7	2.5	2.2	2.0	1.8	1.6	1.6	1.1	0.9	0.7	0.4
85°	2.0	1.8	1.6	1.3	1.3	1.1	0.9	0.7	0.7	0.4	0.2
87.5°	1.1	1.1	0.9	0.7	0.7	0.4	0.4	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5
2.5°	857.1	857.8	861.6	858.7	866.0	871.4	868.7	874.7	872.7	872.3	879.2
5°	862.9	864.4	869.6	866.9	874.9	880.8	878.1	884.8	882.8	882.3	889.4
7.5°	874.0	875.6	880.1	877.9	886.4	891.4	888.2	895.5	892.8	892.5	899.5
10°	888.2	890.3	894.1	891.9	899.7	904.2	900.8	908.0	905.5	904.4	912.0
12.5°	898.6	900.2	904.0	902.2	909.8	913.2	910.3	917.1	914.0	913.2	919.8
15°	896.1	897.7	900.8	899.3	906.4	909.6	905.8	913.3	910.3	908.5	914.4
17.5°	880.5	881.4	883.7	882.1	889.6	891.6	887.5	895.0	892.1	889.0	894.8
20°	857.6	857.1	858.5	857.8	864.0	865.1	862.5	868.0	864.6	862.9	866.2
22.5°	829.0	828.5	829.4	827.6	833.9	834.6	830.5	837.3	833.9	830.5	836.2
25°	797.3	794.8	794.3	795.0	799.3	799.9	795.7	800.6	796.4	793.7	799.0
27.5°	758.2	755.1	754.4	755.1	759.4	756.2	752.6	756.2	752.0	749.5	752.9
30°	710.0	705.6	703.5	702.2	706.7	705.6	697.3	701.3	694.6	691.0	693.5
32.5°	645.0	642.6	637.3	634.1	638.3	629.9	624.7	624.7	622.0	616.0	617.3
35°	554.9	551.1	546.2	543.5	544.1	532.8	524.3	526.1	517.1	515.5	516.2
37.5°	440.8	434.6	432.8	427.2	428.6	418.5	406.9	407.1	402.4	397.5	395.9
40°	331.3	330.1	328.3	323.6	325.4	314.4	310.1	310.3	307.2	303.6	305.4
42.5°	256.0	252.4	251.3	249.8	250.2	248.4	242.6	243.3	240.6	239.7	238.8
45°	208.1	204.2	201.6	202.9	202.9	200.9	198.6	200.0	198.6	196.8	197.7
47.5°	171.4	167.8	166.5	166.2	167.8	166.5	164.2	164.7	164.5	163.8	163.3
50°	136.9	136.0	134.9	134.2	134.9	134.4	132.4	133.5	134.2	131.9	132.6
52.5°	104.3	104.3	104.0	102.5	103.8	102.5	102.2	102.7	102.0	101.1	100.9
55°	76.3	75.7	74.5	74.3	74.8	74.3	73.9	74.1	74.5	72.3	72.3
57.5°	52.2	51.8	51.1	51.1	52.0	50.9	50.2	51.1	50.2	49.3	49.3
60°	33.5	33.3	32.6	32.6	32.6	32.4	31.7	31.9	32.4	31.1	31.3
62.5°	20.1	19.4	19.2	18.9	19.2	18.9	18.9	18.7	18.5	18.5	17.8
65°	11.0	10.5	10.1	10.3	10.3	10.1	10.1	10.1	9.6	9.4	9.2
67.5°	5.6	5.2	5.2	4.9	4.9	4.9	4.9	4.7	4.7	4.7	4.5
70°	3.6	3.4	3.1	3.1	3.1	2.9	2.9	2.9	2.9	2.9	2.7
72.5°	2.5	2.2	2.0	2.0	2.0	1.8	1.8	1.8	1.8	1.6	1.6
75°	1.8	1.6	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.4
80°	0.7	0.7	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5
2.5°	876.7	874.9	876.1	884.4	880.8	879.6	870.2	878.5
5°	887.3	885.9	885.9	895.2	891.0	890.1	881.0	888.2
7.5°	897.0	895.7	895.9	905.5	902.2	900.8	891.6	898.8
10°	909.8	908.9	909.1	918.2	914.6	913.3	904.0	911.4
12.5°	917.3	916.0	916.0	925.8	921.8	919.8	910.9	918.0
15°	911.6	909.6	909.6	919.3	914.8	912.0	904.2	910.9
17.5°	891.6	889.6	889.6	898.1	894.8	890.5	882.6	888.7
20°	864.0	861.6	860.9	870.7	866.0	862.3	855.1	861.2
22.5°	832.8	831.7	829.7	839.4	835.3	831.2	823.6	828.3
25°	795.2	793.4	791.4	801.1	796.8	792.8	786.8	790.5
27.5°	748.6	748.8	747.7	755.3	751.1	748.8	741.4	747.7
30°	692.1	689.6	688.7	697.7	693.7	690.8	681.7	687.7
32.5°	618.5	614.9	610.3	620.2	613.3	610.9	603.1	611.8
35°	511.4	510.3	506.0	514.4	510.7	506.2	501.3	508.7
37.5°	395.3	396.2	395.7	398.0	395.7	392.8	387.5	384.8
40°	301.8	299.5	297.7	301.8	297.1	297.1	293.9	297.3
42.5°	236.6	235.7	237.9	238.8	236.2	235.7	235.3	235.1
45°	195.3	195.3	195.7	196.6	195.7	195.3	193.9	193.0
47.5°	161.0	161.9	161.0	163.8	162.3	161.9	159.2	160.3
50°	130.4	129.3	130.4	131.3	131.5	130.1	128.8	129.5
52.5°	101.1	99.3	98.9	100.2	99.3	99.3	98.4	98.2
55°	71.2	71.9	70.7	71.9	71.4	70.7	70.1	71.0
57.5°	48.2	48.4	48.0	48.7	47.5	47.8	47.5	47.3
60°	31.3	30.4	30.4	31.1	29.9	29.9	29.7	29.7
62.5°	17.8	17.6	17.6	17.4	17.2	17.2	17.2	16.7
65°	9.2	9.0	8.7	8.7	8.7	8.7	8.5	8.5
67.5°	4.5	4.3	4.3	4.5	4.3	4.3	4.3	4.3
70°	2.7	2.7	2.5	2.7	2.5	2.5	2.5	2.5
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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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