

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: P244201

Luminaire Tested: **LSR8B15D010 EC8B15935 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15935 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1384.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

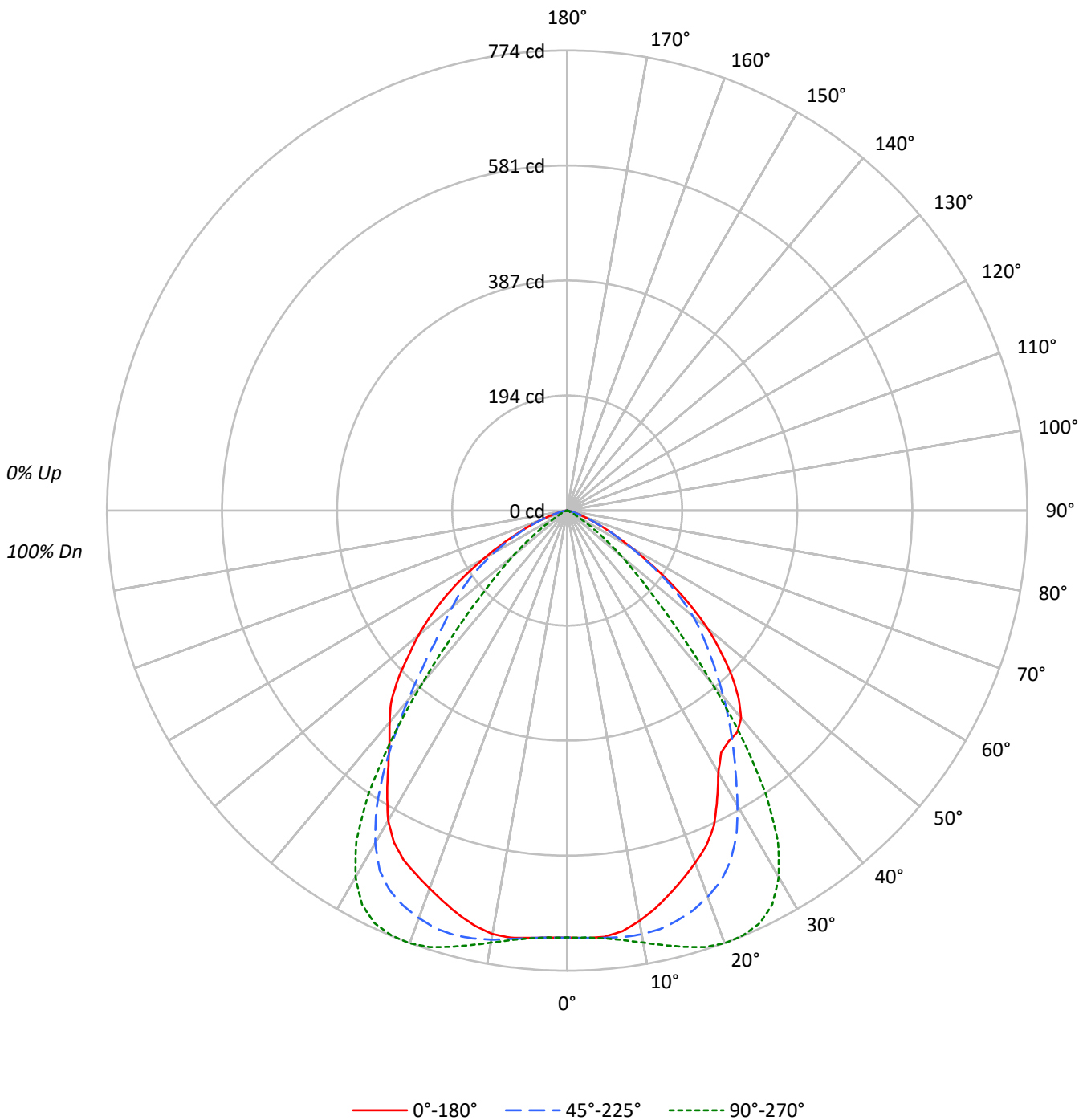
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22140	22140	22140
5°	22271	22355	22330
10°	21943	23102	22648
15°	21303	24246	22471
20°	20683	25412	22196
25°	19890	26062	22095
30°	18102	25348	21439
35°	17832	21965	19726
40°	18316	15232	18698
45°	17051	9206	17583
50°	14790	5685	15668
55°	11349	2973	13295
60°	7734	1196	10034
65°	4808	613	6924
70°	2615	379	4228
75°	1358	179	2502
80°	604	195	1350
85°	389	142	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	5.0
10°-20°	204.5	14.8
20°-30°	312.0	22.5
30°-40°	325.6	23.5
40°-50°	244.6	17.7
50°-60°	150.5	10.9
60°-70°	61.2	4.4
70°-80°	14.4	1.0
80°-90°	2.0	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°	585.6	42.3
0°-40°	911.3	65.8
0°-60°	1306.3	94.4
0°-90°	1384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1384.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	718	718	718	718	718	
5°	720	721	722	721	721	68
15°	667	714	760	738	704	188
25°	585	650	766	705	649	266
35°	474	487	584	539	524	299
45°	391	338	211	315	403	298
55°	211	200	55	200	247	190
65°	66	67	8	90	95	69
75°	11	11	2	20	21	14
85°	1	1	0	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
2.5°	719.9	718.7	719.9	719.9	720.3	719.5	719.9	720.3	719.5	719.5	719.5
5°	719.5	718.7	719.5	719.1	719.9	719.9	720.6	720.6	721.4	721.4	722.5
7.5°	713.4	711.9	713.4	714.5	715.3	716.8	718.7	720.3	721.8	723.3	725.2
10°	700.8	700.8	702.0	704.3	706.5	709.2	712.6	716.5	720.3	723.7	727.1
12.5°	685.2	684.1	686.3	689.4	692.8	697.0	702.4	708.1	714.2	721.0	726.4
15°	667.3	666.1	668.8	671.9	676.1	682.2	688.6	696.3	705.0	714.2	722.9
17.5°	649.0	648.6	651.3	655.5	658.9	665.4	673.8	682.9	692.8	705.0	716.5
20°	630.3	629.9	632.6	636.0	640.6	646.7	655.1	665.8	677.6	691.3	704.6
22.5°	610.9	611.3	613.6	617.4	621.2	627.7	636.4	647.1	660.0	674.9	689.8
25°	584.6	582.7	585.7	589.6	596.0	601.4	609.7	621.2	634.5	650.1	667.7
27.5°	546.5	546.1	548.8	552.2	557.9	564.4	573.5	585.4	599.5	616.6	633.8
30°	508.4	509.1	510.3	513.7	517.5	524.0	533.1	543.1	556.4	572.8	591.1
32.5°	482.5	482.5	484.0	486.3	488.9	492.4	498.9	506.1	516.4	527.8	541.1
35°	473.7	472.2	473.7	474.1	474.5	475.2	476.4	478.7	482.1	487.0	492.0
37.5°	469.9	468.7	468.7	467.2	465.3	463.0	460.0	456.5	452.7	447.8	444.0
40°	455.0	454.3	453.5	452.0	447.8	443.2	438.2	430.2	421.5	409.3	397.1
42.5°	426.4	425.7	425.3	422.2	418.4	413.1	407.4	399.0	388.0	372.3	354.8
45°	391.0	389.5	388.3	385.7	383.0	378.4	373.1	365.5	354.4	338.4	317.4
47.5°	349.8	349.1	348.7	347.6	344.9	342.2	338.8	332.7	322.8	307.5	285.8
50°	308.3	306.8	307.5	307.2	306.0	304.1	301.8	297.6	290.0	276.3	256.5
52.5°	260.7	260.7	260.3	261.4	261.8	261.4	261.8	257.2	250.8	240.5	223.7
55°	211.1	211.1	212.3	213.8	215.3	215.7	215.3	213.4	208.8	200.5	185.6
57.5°	164.6	163.9	166.2	168.4	170.0	171.5	170.3	168.8	166.2	159.3	147.9
60°	125.4	125.4	126.9	128.4	129.9	131.5	131.1	130.7	128.4	123.9	114.7
62.5°	92.2	92.6	92.6	93.7	95.3	96.8	97.9	96.8	95.7	92.6	86.5
65°	65.9	65.5	65.9	67.1	68.2	69.7	70.5	70.1	69.0	66.7	62.1
67.5°	44.2	43.8	45.3	45.7	46.5	48.0	47.6	48.0	47.6	45.7	41.9
70°	29.0	28.2	29.0	28.6	29.7	30.1	30.9	31.2	30.9	29.7	28.6
72.5°	17.9	17.5	17.9	18.3	18.7	19.1	19.8	19.8	19.4	18.7	17.1
75°	11.4	10.3	10.7	9.9	10.7	10.7	11.4	11.8	11.4	11.4	10.7
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.2	7.6	6.9	6.5
80°	3.4	3.4	3.8	3.8	3.8	4.2	3.8	3.8	3.8	4.2	3.0
82.5°	2.7	2.3	2.3	2.3	2.7	2.3	2.3	2.3	2.3	2.3	2.3
85°	1.1	1.5	1.1	0.8	1.1	1.1	1.5	1.1	1.1	1.1	1.5
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.8	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
2.5°	719.9	719.1	719.1	718.7	719.5	718.7	719.1	718.7	718.7	719.5	718.7
5°	722.5	722.9	722.2	721.8	722.9	722.9	722.9	722.2	722.2	722.5	722.2
7.5°	726.4	727.1	727.5	727.9	728.6	729.0	729.0	728.6	728.3	729.4	727.9
10°	730.5	731.7	734.0	735.1	737.0	737.0	737.8	737.8	737.0	737.8	737.4
12.5°	729.0	735.9	739.7	742.4	745.0	747.3	748.1	748.5	748.1	749.6	748.1
15°	731.7	737.4	743.5	748.1	753.0	755.7	756.5	759.5	760.3	760.7	758.4
17.5°	727.5	737.8	744.3	751.1	758.4	763.3	767.9	769.8	770.2	770.9	767.9
20°	718.0	729.4	739.3	749.2	757.6	765.2	769.0	774.4	772.9	775.9	771.7
22.5°	705.0	718.0	730.5	743.5	752.3	761.4	769.4	773.2	775.1	775.1	770.6
25°	684.4	699.7	713.4	726.7	740.1	751.1	760.3	766.0	767.1	766.8	761.4
27.5°	652.4	668.8	684.8	700.1	716.5	729.4	740.1	746.9	748.8	748.8	743.1
30°	608.2	625.7	641.4	659.7	676.4	690.9	705.8	711.9	715.3	715.3	708.8
32.5°	555.6	570.5	585.0	602.9	621.2	637.6	651.7	660.0	664.2	663.9	658.1
35°	498.5	505.7	516.8	530.1	546.5	561.7	575.4	583.5	590.7	590.3	585.0
37.5°	441.3	439.4	440.5	445.5	455.8	466.5	477.1	484.8	490.8	493.5	492.4
40°	385.3	375.4	365.8	362.4	363.2	367.0	372.7	378.4	385.3	388.7	390.2
42.5°	335.0	318.2	301.4	288.9	281.6	279.3	282.0	283.9	288.1	293.1	298.0
45°	294.6	272.1	250.0	230.6	218.4	211.1	209.6	211.1	213.4	218.4	224.8
47.5°	261.4	235.1	210.4	188.6	170.7	161.2	158.5	157.8	160.1	164.6	173.4
50°	232.1	205.8	178.4	153.2	134.5	123.9	120.0	118.5	121.2	124.6	132.6
52.5°	200.1	174.2	146.0	121.6	102.1	91.1	86.9	84.6	86.1	90.7	98.7
55°	165.4	141.4	115.8	90.7	72.0	61.7	56.8	55.3	56.8	61.7	69.7
57.5°	130.7	110.5	89.2	65.5	48.8	38.5	33.5	32.0	36.2	38.1	46.5
60°	102.1	85.7	67.5	48.0	33.5	25.5	20.6	19.4	21.3	24.8	31.6
62.5°	76.6	66.3	51.8	34.3	24.8	16.4	13.7	12.6	13.7	16.4	21.7
65°	55.6	47.6	36.2	25.1	16.8	12.2	9.1	8.4	9.5	11.4	16.0
67.5°	38.1	32.0	25.1	17.5	11.4	7.6	6.5	6.5	6.9	8.4	11.8
70°	24.8	21.0	16.0	11.4	7.6	5.7	5.0	4.2	5.0	6.1	8.0
72.5°	15.6	13.3	10.3	8.0	5.7	4.2	3.4	3.0	3.8	4.6	6.1
75°	9.5	7.2	5.3	4.2	3.0	3.0	3.0	1.5	1.9	3.0	3.8
77.5°	5.7	5.0	4.2	3.4	2.7	1.5	1.5	1.5	1.9	2.3	3.4
80°	3.0	2.7	1.9	1.9	1.5	1.1	1.5	1.1	0.8	1.9	2.3
82.5°	1.9	1.5	1.5	1.5	1.9	0.8	1.1	0.8	1.1	1.5	1.1
85°	1.1	1.1	1.1	0.8	1.9	0.8	0.8	0.4	0.4	0.8	0.8
87.5°	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
2.5°	719.1	718.7	719.1	718.7	718.7	718.7	719.1	719.1	718.7	718.7	719.5
5°	722.2	722.2	722.2	721.8	721.4	721.4	722.2	722.2	721.0	722.2	722.2
7.5°	728.6	727.5	728.6	727.1	726.4	726.7	727.1	726.4	725.6	726.0	726.0
10°	737.0	735.9	735.9	734.7	733.6	732.8	732.1	730.2	728.3	727.9	726.4
12.5°	746.9	745.0	743.9	741.6	739.7	737.0	734.7	731.7	727.9	725.2	722.5
15°	756.8	753.8	751.1	747.3	743.1	738.5	733.6	728.6	722.5	717.2	712.6
17.5°	764.8	760.7	755.7	749.6	743.5	736.6	729.4	722.2	713.4	706.5	701.2
20°	767.5	761.4	754.9	746.9	738.9	729.4	720.3	710.7	700.8	693.6	687.5
22.5°	764.1	756.8	748.8	740.5	729.8	719.5	708.8	697.8	689.0	679.1	673.4
25°	754.6	745.8	737.0	727.1	716.8	705.4	694.0	682.5	671.9	666.5	659.3
27.5°	735.1	725.6	716.1	705.8	694.0	682.5	670.7	659.7	650.5	643.3	639.1
30°	700.8	689.8	678.7	667.7	657.4	645.6	634.5	625.4	616.2	610.5	606.3
32.5°	648.2	638.3	627.3	616.6	607.1	597.2	588.0	580.0	573.5	569.7	566.7
35°	577.4	567.4	559.1	551.4	543.4	539.2	533.5	529.0	526.3	524.8	524.4
37.5°	488.2	482.5	479.8	478.3	476.7	475.6	476.4	478.3	479.8	482.5	485.5
40°	392.9	397.9	399.4	404.7	409.7	416.1	423.4	431.8	438.6	447.4	453.5
42.5°	306.0	315.2	325.8	337.3	349.5	361.3	375.8	389.1	401.3	412.3	421.9
45°	235.1	249.2	265.2	281.6	298.0	315.2	332.7	349.1	363.6	375.4	385.3
47.5°	183.3	198.9	219.5	239.7	259.5	279.7	299.2	316.3	328.5	339.9	348.7
50°	145.2	163.1	185.6	208.8	230.6	251.9	272.5	288.5	300.7	309.8	316.3
52.5°	112.4	133.8	156.6	181.0	204.3	227.5	246.6	261.4	271.3	279.3	284.3
55°	83.8	104.8	129.2	154.3	178.0	200.5	218.4	231.3	240.1	244.7	247.3
57.5°	60.6	79.7	104.0	129.2	150.5	171.9	186.4	198.2	203.1	205.8	206.9
60°	44.2	61.7	83.5	105.2	125.4	142.5	155.1	163.1	166.9	168.4	168.1
62.5°	32.4	47.6	66.3	84.6	101.0	115.1	125.0	130.3	132.2	133.0	131.9
65°	24.8	36.6	52.6	66.7	79.3	89.6	96.8	100.2	101.4	101.0	100.2
67.5°	18.3	27.4	39.3	49.9	59.1	67.1	70.9	73.9	74.7	73.6	72.4
70°	13.0	20.2	28.6	35.8	42.7	47.3	51.4	51.8	51.8	51.4	50.7
72.5°	9.1	14.1	19.4	24.4	28.6	32.0	33.5	34.7	34.3	33.9	33.2
75°	6.1	8.8	14.1	15.2	19.1	20.2	21.7	21.7	22.1	21.0	21.0
77.5°	3.8	6.1	8.4	9.9	11.4	13.0	13.7	13.7	14.1	13.7	13.7
80°	2.3	3.8	4.6	6.9	6.9	8.0	8.4	8.8	8.0	9.1	8.0
82.5°	1.5	2.3	3.4	3.4	4.2	5.0	5.0	5.3	5.3	5.0	5.0
85°	1.1	1.5	1.9	2.3	2.3	2.7	2.3	2.3	2.7	3.0	2.7
87.5°	0.4	0.8	0.4	0.8	0.8	1.5	1.1	1.1	1.1	1.5	1.5
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):

	165°	170°	175°	180°
0°	718.0	718.0	718.0	718.0
2.5°	718.7	719.1	718.7	718.7
5°	722.2	721.8	722.2	721.4
7.5°	724.8	724.8	724.5	724.5
10°	724.8	723.3	723.3	723.3
12.5°	719.1	717.2	716.1	715.3
15°	709.2	705.8	704.3	703.9
17.5°	696.3	693.2	691.3	690.2
20°	681.4	678.3	676.1	676.4
22.5°	668.4	665.0	663.5	662.7
25°	655.5	651.3	650.1	649.4
27.5°	634.5	632.2	631.1	629.9
30°	602.5	601.4	599.5	602.1
32.5°	565.5	563.6	562.1	563.3
35°	524.8	523.6	524.8	524.0
37.5°	487.4	488.6	490.1	490.8
40°	458.1	462.3	463.8	464.5
42.5°	428.7	433.7	436.7	438.6
45°	392.5	397.5	400.9	403.2
47.5°	355.2	359.4	362.8	362.4
50°	321.3	323.5	325.1	326.6
52.5°	287.0	287.0	287.3	287.3
55°	248.1	247.3	246.9	247.3
57.5°	205.4	204.6	204.3	203.1
60°	166.5	164.3	162.7	162.7
62.5°	130.3	127.7	126.5	126.1
65°	97.9	97.6	95.3	94.9
67.5°	70.9	69.4	67.8	68.2
70°	49.9	47.6	47.6	46.9
72.5°	32.4	31.2	30.9	30.9
75°	20.2	20.2	19.4	21.0
77.5°	13.3	13.3	13.0	13.3
80°	8.0	8.0	8.0	7.6
82.5°	5.0	5.3	5.0	5.0
85°	2.7	3.0	2.3	3.4
87.5°	1.5	1.9	1.5	1.9
90°	0.0	0.0	0.0	0.0

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