

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: P244639

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15940 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1395.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

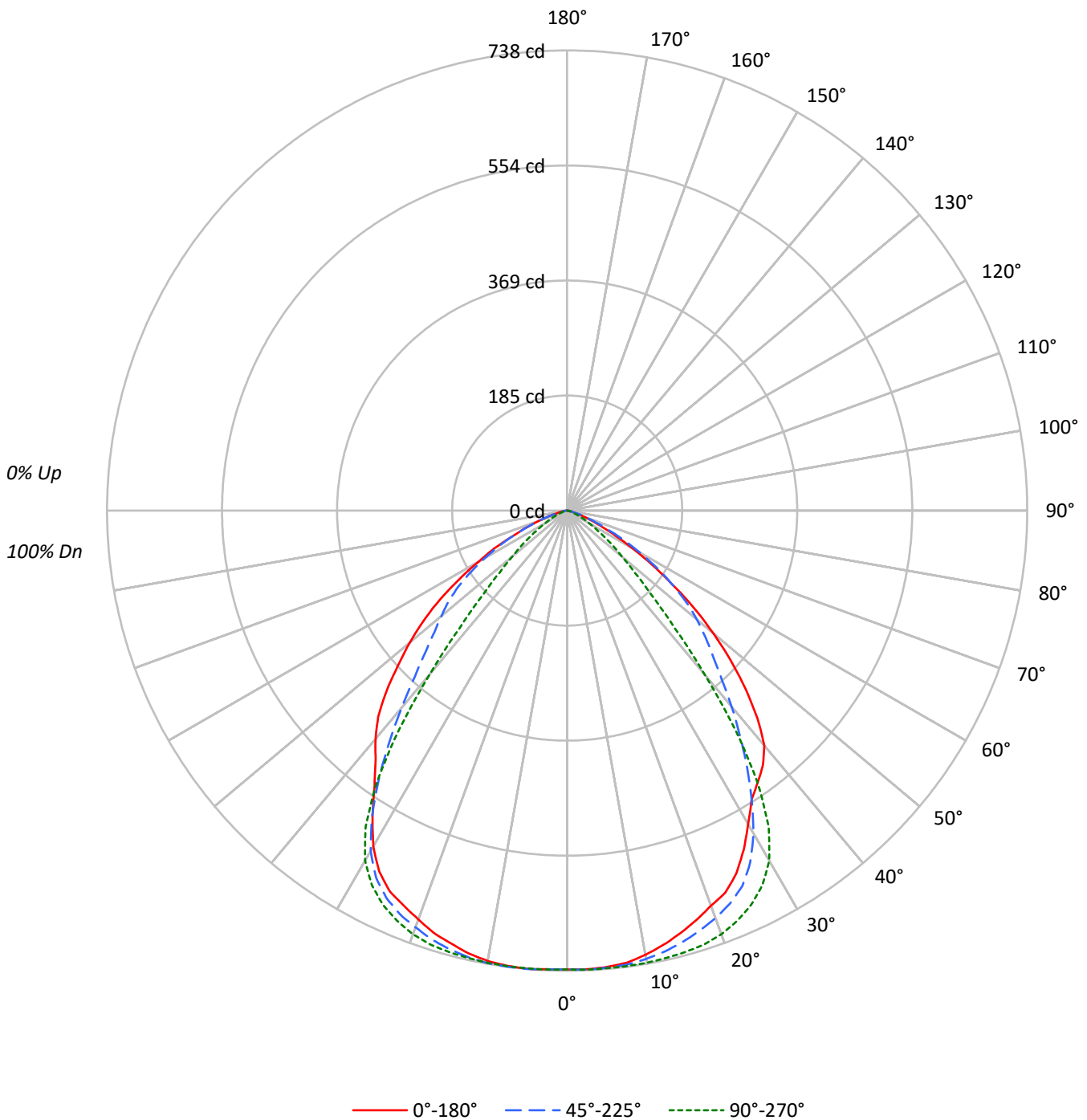
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22696	22696	22696
5°	22745	22807	22832
10°	22651	23058	22961
15°	22401	23397	22953
20°	22131	23725	22895
25°	21843	23752	22919
30°	20666	23084	22144
35°	20049	20064	20271
40°	19801	13803	19241
45°	17644	8286	17884
50°	14670	5517	15807
55°	11000	3801	13403
60°	7456	2535	10114
65°	4495	1642	6946
70°	2497	893	4274
75°	1132	381	2216
80°	977	426	1545
85°	1132	566	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	5.0
10°-20°	204.0	14.6
20°-30°	309.6	22.2
30°-40°	325.2	23.3
40°-50°	243.8	17.5
50°-60°	156.4	11.2
60°-70°	66.9	4.8
70°-80°	15.8	1.1
80°-90°	3.0	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°	583.9	41.9
0°-40°	909.1	65.2
0°-60°	1309.3	93.9
0°-90°	1395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1395.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	736	736	736	736	736	
5°	735	736	737	738	738	70
15°	702	716	733	728	719	198
25°	642	664	698	686	674	293
35°	533	503	533	527	538	334
45°	405	331	190	321	410	310
55°	205	205	71	213	249	186
65°	62	73	22	94	95	66
75°	10	11	3	19	19	14
85°	3	2	2	3	4	3
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°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
2.5°	736.4	737.2	736.8	736.8	736.4	736.8	736.8	737.6	737.6	736.8	736.4
5°	734.8	735.6	735.6	734.8	734.8	736.8	735.6	736.4	736.4	736.0	736.0
7.5°	731.3	731.3	732.9	731.7	731.7	732.9	732.5	733.3	734.1	734.5	734.5
10°	723.4	724.2	724.6	724.6	725.0	726.1	726.9	728.5	729.3	730.1	730.5
12.5°	713.5	714.7	715.1	714.7	715.9	717.5	719.4	721.4	722.6	724.2	725.4
15°	701.7	701.7	702.4	703.6	704.4	706.8	708.8	711.1	714.3	716.3	718.3
17.5°	688.6	689.4	690.6	690.6	692.2	696.1	697.3	700.9	704.4	706.4	710.4
20°	674.4	675.2	676.4	677.2	679.1	682.3	684.7	687.8	691.8	695.3	699.3
22.5°	663.3	661.8	662.5	663.3	665.3	668.1	670.8	674.8	678.7	682.3	686.3
25°	642.0	642.4	643.6	644.4	646.7	649.1	652.3	657.0	660.6	664.5	668.9
27.5°	613.2	613.6	615.5	615.5	617.5	621.5	623.4	627.4	632.1	636.1	641.2
30°	580.4	581.2	581.2	582.7	583.9	585.9	587.9	591.8	594.2	597.8	604.9
32.5°	550.3	551.1	550.7	550.3	549.2	548.8	548.4	549.2	550.0	551.1	553.9
35°	532.6	530.6	529.0	526.2	523.1	519.1	515.6	510.8	506.5	502.9	499.0
37.5°	515.6	515.2	512.8	508.9	502.5	495.4	487.1	476.9	466.6	455.5	444.9
40°	491.9	490.7	488.7	483.2	476.1	467.4	456.3	443.7	427.1	410.1	392.7
42.5°	451.6	452.0	449.6	445.2	438.5	430.2	418.8	405.0	387.2	367.0	344.5
45°	404.6	404.6	403.8	400.2	395.5	388.8	380.1	368.6	351.2	330.7	306.6
47.5°	355.6	356.0	354.8	354.0	352.0	347.7	341.3	332.7	320.4	300.7	276.6
50°	305.8	305.8	307.8	307.4	307.4	305.8	303.0	297.9	287.2	271.4	248.9
52.5°	256.0	256.8	258.0	259.6	261.5	264.7	261.5	259.2	252.5	240.2	220.9
55°	204.6	205.4	207.4	210.2	212.6	215.7	216.5	216.5	212.9	204.6	190.0
57.5°	160.8	159.6	161.2	163.6	166.7	169.9	172.3	175.0	174.6	169.1	157.2
60°	120.9	121.3	122.5	124.8	127.2	130.0	133.1	135.5	136.7	133.9	126.4
62.5°	88.1	88.1	89.7	92.0	93.2	97.2	99.2	100.4	101.5	101.1	96.4
65°	61.6	62.4	63.2	64.4	65.6	67.9	69.1	71.5	72.3	72.7	69.1
67.5°	43.5	42.3	43.1	43.8	45.0	46.6	49.0	49.0	50.2	50.2	47.8
70°	27.7	27.7	28.1	29.2	30.0	30.4	31.2	32.0	33.2	32.8	32.8
72.5°	18.6	18.2	18.6	19.0	19.4	20.5	20.5	20.9	21.7	22.1	20.5
75°	9.5	9.9	10.7	10.3	11.5	10.7	11.1	12.2	11.9	11.1	11.1
77.5°	7.9	7.9	7.9	7.5	8.3	8.3	7.9	8.7	8.3	8.3	7.9
80°	5.5	5.9	5.5	5.1	5.5	5.1	5.1	5.1	5.1	5.1	4.7
82.5°	4.3	3.6	4.0	3.6	4.0	4.0	3.6	3.2	3.2	3.6	3.2
85°	3.2	2.4	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.0	2.0
87.5°	2.0	1.2	1.2	1.2	1.6	1.6	1.6	1.2	1.6	1.6	0.8
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°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
2.5°	737.2	736.8	737.6	737.2	737.2	736.8	737.2	736.8	737.6	736.0	736.4
5°	737.2	736.4	736.8	737.2	737.6	736.8	736.8	736.8	737.6	736.8	737.2
7.5°	735.6	735.2	736.4	737.2	736.8	736.4	737.2	736.8	737.6	737.2	738.0
10°	732.5	732.9	733.7	734.8	735.2	735.6	736.4	736.4	737.6	736.0	736.8
12.5°	727.7	729.3	731.3	732.1	733.7	733.7	734.5	734.8	735.6	735.2	736.4
15°	721.8	723.8	726.1	728.1	730.1	731.3	732.5	732.9	734.1	732.9	733.3
17.5°	714.7	717.1	720.6	723.0	726.1	727.3	728.9	729.7	730.9	730.1	730.5
20°	704.8	707.6	711.5	715.1	717.1	719.8	721.8	723.0	723.8	723.0	723.4
22.5°	691.0	694.9	700.1	702.8	706.8	709.2	709.6	712.3	714.3	712.3	713.1
25°	674.8	678.7	682.7	688.6	692.2	694.9	697.7	698.1	700.1	699.7	699.3
27.5°	647.9	653.1	659.8	664.5	669.3	673.6	676.8	677.6	679.5	678.7	679.1
30°	611.2	616.7	623.0	630.5	637.3	641.6	645.6	648.3	650.3	649.1	648.7
32.5°	559.0	564.6	571.3	578.8	586.7	593.0	597.8	601.3	603.7	602.9	600.9
35°	499.4	501.0	505.3	511.2	517.9	524.7	529.0	533.0	535.7	536.5	536.5
37.5°	438.1	433.0	429.8	429.8	433.8	436.6	440.5	442.9	447.2	448.8	450.0
40°	378.9	367.0	356.0	347.7	342.1	341.7	341.7	342.9	346.9	352.0	356.8
42.5°	325.9	307.0	290.0	274.6	263.5	257.2	254.4	254.8	258.0	262.7	270.6
45°	283.7	260.0	238.6	220.1	205.0	195.2	190.4	190.0	192.4	197.9	206.6
47.5°	250.9	225.6	201.5	180.2	164.0	153.3	147.8	146.2	147.8	152.9	163.2
50°	223.6	197.5	172.7	150.5	133.1	122.1	116.9	115.0	116.9	121.3	131.6
52.5°	198.3	171.5	148.2	126.8	108.3	98.8	93.2	92.0	93.2	98.4	106.7
55°	169.1	146.2	123.3	101.9	85.7	76.3	71.9	70.7	71.9	76.6	85.3
57.5°	140.3	120.5	100.4	81.0	67.2	58.9	54.9	53.3	56.1	59.3	69.5
60°	113.4	97.6	80.6	63.6	52.2	44.6	41.5	41.1	41.9	45.8	52.9
62.5°	88.9	75.9	62.4	48.6	39.1	36.0	32.0	31.6	32.4	34.8	40.3
65°	64.0	55.7	45.4	35.6	28.1	23.7	22.1	22.5	23.3	24.9	30.0
67.5°	44.6	38.7	31.6	24.9	19.4	17.4	15.8	15.4	15.8	18.6	21.3
70°	30.0	26.5	21.3	19.0	13.4	10.7	11.1	9.9	11.5	11.5	13.8
72.5°	19.7	17.4	14.2	11.1	9.5	7.5	7.5	7.1	7.9	8.3	10.3
75°	10.3	7.9	7.9	5.5	4.0	2.0	3.6	3.2	2.8	3.2	4.0
77.5°	7.1	5.9	5.5	4.3	4.0	3.2	3.2	3.2	3.2	3.6	4.0
80°	4.3	4.3	3.2	2.8	2.4	2.0	2.4	2.4	2.4	2.4	2.8
82.5°	2.8	2.4	2.4	2.0	2.0	1.6	1.6	1.6	1.6	1.6	2.4
85°	2.4	1.6	1.6	1.2	1.6	2.8	1.2	1.6	1.6	1.6	1.2
87.5°	0.8	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	2.0	1.6
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°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0
2.5°	737.2	737.6	737.6	737.2	737.2	736.4	738.0	736.8	737.2	738.8	737.6
5°	738.0	738.4	738.4	738.0	738.0	738.0	738.4	738.4	738.0	737.6	738.4
7.5°	739.6	739.2	739.2	738.4	738.4	737.6	738.4	737.2	738.0	737.2	738.4
10°	737.6	738.0	737.6	737.2	737.2	736.8	736.8	735.6	736.0	734.8	735.6
12.5°	736.4	736.0	736.0	735.2	734.5	733.7	733.3	732.1	732.1	729.3	730.5
15°	733.3	733.7	732.5	730.9	730.1	728.1	727.3	725.8	724.2	722.2	722.6
17.5°	730.5	729.3	727.7	726.1	723.0	721.4	719.8	717.5	716.7	714.3	713.5
20°	722.2	721.4	719.4	716.7	714.7	711.1	709.6	707.2	705.2	702.8	701.7
22.5°	711.5	710.7	708.4	705.6	702.4	700.9	699.3	694.9	693.0	690.6	690.2
25°	698.1	696.9	694.5	691.4	689.8	685.5	683.9	680.7	679.9	677.6	677.2
27.5°	677.6	676.0	673.2	669.3	666.5	663.7	662.2	659.8	659.0	656.6	656.2
30°	646.7	644.8	639.2	637.7	632.9	630.1	630.1	627.0	627.4	625.8	625.8
32.5°	598.2	595.0	590.6	587.5	584.3	582.7	582.7	581.6	582.3	582.3	583.1
35°	533.7	529.4	527.0	525.1	525.1	526.6	531.4	532.6	534.9	536.9	538.5
37.5°	451.2	450.8	453.6	455.9	461.8	468.6	476.9	484.0	490.7	495.4	500.2
40°	361.9	371.8	379.7	390.7	399.8	412.9	427.9	440.1	451.6	459.9	468.6
42.5°	282.5	295.1	311.7	327.9	344.1	361.9	381.6	398.6	413.6	425.1	434.2
45°	220.1	237.4	257.6	278.1	299.1	321.2	341.7	359.1	374.9	386.8	395.9
47.5°	177.4	196.4	219.3	241.8	265.5	288.8	311.7	326.7	339.8	349.2	357.6
50°	146.6	166.7	190.8	216.5	240.2	263.5	283.3	297.9	308.6	316.9	322.0
52.5°	122.5	143.8	169.5	195.2	218.9	240.2	258.0	269.0	277.7	283.7	288.4
55°	101.1	121.7	145.8	169.9	193.2	213.3	228.0	236.3	243.0	246.5	249.3
57.5°	82.6	101.5	123.7	145.8	165.9	182.5	194.0	202.3	205.4	208.2	207.8
60°	64.8	82.6	102.7	121.7	139.1	152.5	160.8	165.5	167.9	169.1	168.3
62.5°	51.0	67.2	82.6	99.2	111.8	123.3	131.2	131.2	132.3	132.7	133.9
65°	37.9	50.2	63.6	75.9	86.1	93.6	98.0	99.2	100.7	100.4	99.6
67.5°	28.1	37.1	47.0	56.1	63.2	67.9	71.1	73.9	73.5	72.7	72.3
70°	19.4	25.3	34.0	39.5	44.6	49.4	50.2	50.6	51.0	51.4	50.6
72.5°	13.4	17.8	22.5	27.3	30.4	32.4	34.4	34.8	34.8	34.8	34.4
75°	6.7	9.1	13.4	15.4	18.2	19.0	20.5	20.5	21.7	20.1	19.7
77.5°	5.9	7.1	9.5	11.1	12.2	13.4	13.8	15.0	14.6	13.8	14.2
80°	3.6	4.3	5.9	6.7	8.3	8.7	9.1	9.5	9.1	9.5	9.5
82.5°	2.8	3.2	4.0	4.0	5.1	5.1	5.5	5.5	5.9	5.9	5.9
85°	1.6	2.8	2.4	4.7	3.2	3.2	4.0	4.7	4.0	4.0	4.7
87.5°	1.6	1.6	1.2	1.6	1.6	1.6	2.0	2.4	2.4	2.8	2.4
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):

	165°	170°	175°	180°
0°	736.0	736.0	736.0	736.0
2.5°	737.2	738.0	736.8	736.4
5°	738.4	738.4	737.6	737.6
7.5°	738.4	738.4	737.2	736.4
10°	735.2	735.2	734.1	733.3
12.5°	729.3	729.3	728.9	727.7
15°	721.8	721.8	720.2	719.0
17.5°	711.5	712.3	710.4	710.4
20°	700.5	700.1	698.5	697.7
22.5°	689.0	688.2	687.8	685.5
25°	676.8	676.0	674.8	673.6
27.5°	655.8	655.4	654.2	652.7
30°	623.8	623.4	621.9	621.9
32.5°	582.3	581.9	580.4	580.8
35°	539.3	540.9	540.1	538.5
37.5°	503.3	504.5	505.3	504.5
40°	473.3	476.9	477.3	478.0
42.5°	441.3	446.0	447.6	448.4
45°	403.0	407.3	410.9	410.1
47.5°	363.9	367.0	370.2	367.8
50°	326.3	328.3	329.5	329.5
52.5°	290.8	290.8	290.4	290.8
55°	250.1	250.1	248.5	249.3
57.5°	207.4	208.2	207.0	205.0
60°	167.9	165.9	165.1	164.0
62.5°	130.8	130.8	128.0	131.6
65°	98.0	96.8	95.6	95.2
67.5°	71.1	70.7	69.5	69.1
70°	50.2	48.6	48.2	47.4
72.5°	33.6	33.6	32.8	32.8
75°	20.5	18.6	18.2	18.6
77.5°	14.2	13.8	13.8	13.4
80°	9.5	9.1	9.9	8.7
82.5°	5.9	6.3	5.9	6.3
85°	4.0	4.7	4.3	4.3
87.5°	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0

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