

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: P245382

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245382
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: LSR8B10D010 EC8B10827 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1090.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

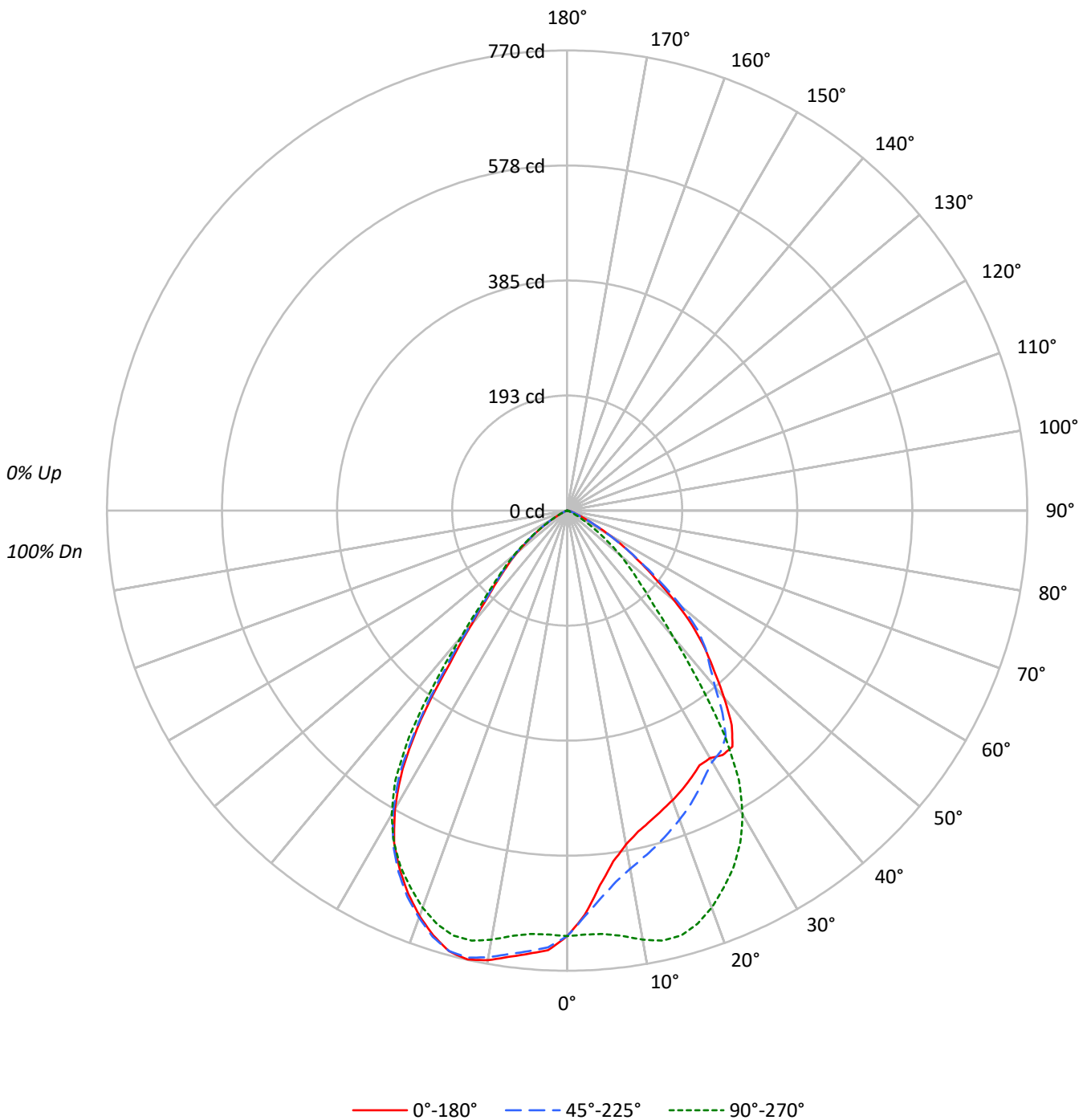
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	21959	21959	21959
5°	19483	22011	23042
10°	17763	22830	23919
15°	17166	23496	24374
20°	16920	23207	23686
25°	16753	22408	22548
30°	17027	20912	20524
35°	18148	17305	16051
40°	16448	11078	10031
45°	14195	7579	7056
50°	11202	5526	5205
55°	7774	3398	3199
60°	4952	1721	1536
65°	2474	686	518
70°	1370	334	189
75°	977	250	83
80°	799	160	36
85°	849	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	6.1
10°-20°	191.7	17.6
20°-30°	278.2	25.5
30°-40°	274.0	25.1
40°-50°	171.8	15.8
50°-60°	82.9	7.6
60°-70°	20.1	1.8
70°-80°	4.0	0.4
80°-90°	0.9	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°	536.3	49.2
0°-40°	810.3	74.3
0°-60°	1065.0	97.7
0°-90°	1090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1090.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	712	712	712	712	712	
5°	629	651	711	740	744	58
15°	538	580	736	763	764	152
25°	492	518	659	668	663	228
35°	482	462	460	434	426	292
45°	326	328	174	166	162	249
55°	145	149	63	62	60	133
65°	34	34	9	8	7	39
75°	8	7	2	1	1	9
85°	2	2	0	0	0	2
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°	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1
2.5°	676.9	672.6	664.6	674.3	674.3	668.9	679.7	673.2	678.4	686.6	679.3
5°	629.4	625.8	619.1	629.4	630.7	625.6	638.7	633.9	641.5	651.6	650.7
7.5°	591.8	587.3	581.1	591.8	593.8	590.5	603.0	600.8	610.9	624.0	626.2
10°	567.3	562.6	557.2	566.9	568.4	566.1	578.9	577.6	587.5	602.6	608.6
12.5°	549.9	545.9	539.9	550.2	551.9	548.7	560.7	560.2	570.4	586.3	593.8
15°	537.7	533.0	527.6	536.4	538.6	535.1	546.5	545.4	555.9	571.6	580.0
17.5°	526.3	522.0	516.4	524.6	526.9	523.1	534.3	532.5	541.4	556.4	565.0
20°	515.6	511.0	505.9	514.3	515.6	511.3	522.5	520.1	528.2	542.0	550.4
22.5°	504.6	499.7	494.5	502.7	504.0	499.7	510.0	507.2	514.7	527.2	534.9
25°	492.4	487.9	482.7	490.4	491.5	486.8	497.7	494.1	500.7	511.7	518.1
27.5°	480.3	476.0	470.2	478.0	478.6	474.1	484.0	479.1	484.6	494.7	500.1
30°	478.2	473.3	467.4	473.7	473.9	468.1	477.5	471.7	474.7	482.1	485.3
32.5°	484.8	479.9	473.7	479.0	478.4	472.0	481.0	473.9	474.8	478.8	478.0
35°	482.1	476.3	469.0	474.7	474.7	467.0	476.0	467.5	466.6	467.2	462.5
37.5°	452.4	447.9	441.0	446.4	445.8	440.0	447.0	440.0	436.9	435.6	427.1
40°	408.6	403.2	397.9	403.7	404.3	398.1	407.1	399.3	398.3	394.6	384.7
42.5°	364.3	362.4	357.3	362.2	364.8	359.6	367.1	363.3	363.9	363.0	353.6
45°	325.5	322.4	318.6	324.2	325.9	323.3	330.8	328.5	330.8	335.5	327.8
47.5°	283.8	280.6	276.5	282.5	285.5	280.6	287.0	286.3	289.6	297.7	296.9
50°	233.5	231.2	230.5	231.2	233.1	230.9	235.4	235.5	237.8	248.8	249.6
52.5°	184.8	184.3	181.7	184.1	184.1	180.5	185.0	183.0	185.2	192.7	197.6
55°	144.6	144.1	142.4	144.6	142.2	140.9	142.2	140.1	138.4	144.2	149.3
57.5°	112.6	110.8	108.7	109.6	109.4	106.6	108.1	105.7	104.4	106.5	110.9
60°	80.3	79.7	77.8	78.8	79.5	77.5	79.0	77.8	75.6	77.3	77.5
62.5°	53.3	53.7	52.6	52.8	52.2	51.8	52.8	53.3	52.8	52.0	52.2
65°	33.9	33.7	33.5	33.7	34.1	33.3	33.9	34.2	33.7	33.7	33.5
67.5°	22.5	21.9	21.3	21.7	22.1	21.5	22.1	21.9	22.1	21.9	21.3
70°	15.2	15.0	14.8	15.0	15.0	14.6	15.0	14.8	15.0	14.8	14.2
72.5°	11.0	11.0	10.9	11.0	11.0	10.7	10.9	10.5	10.7	10.5	10.1
75°	8.2	8.2	8.0	8.2	8.0	7.9	8.0	7.9	7.5	7.5	7.1
77.5°	6.0	6.0	6.0	6.0	6.0	5.8	5.8	5.6	5.4	5.2	5.2
80°	4.5	4.3	4.3	4.3	4.3	4.1	4.3	4.1	3.9	3.7	3.6
82.5°	3.2	3.4	3.2	3.2	3.2	3.0	3.2	3.0	3.0	2.8	2.4
85°	2.4	2.4	2.4	2.4	2.4	2.2	2.2	2.2	2.1	2.1	1.9
87.5°	1.3	1.3	1.3	1.5	1.3	1.3	1.3	1.1	1.1	0.9	0.9
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°	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1
2.5°	689.1	690.0	687.9	691.1	703.5	693.6	697.7	699.0	708.3	710.0	708.9
5°	662.9	667.0	669.6	676.7	690.4	683.3	690.6	695.2	707.2	711.1	712.1
7.5°	642.3	650.9	657.3	668.9	684.9	679.5	690.6	698.2	712.8	717.9	720.3
10°	626.9	640.0	651.1	667.0	685.1	681.6	696.0	706.8	723.1	729.1	732.1
12.5°	615.3	631.3	646.0	666.2	685.9	684.2	701.6	713.9	731.2	737.1	740.7
15°	602.6	621.0	638.2	660.8	682.0	681.6	700.3	713.4	731.0	736.0	739.4
17.5°	587.5	607.1	626.0	650.5	671.5	671.8	690.7	703.7	720.9	725.0	727.2
20°	572.1	591.6	610.5	635.7	656.3	656.9	675.4	687.4	703.8	707.2	707.8
22.5°	555.9	574.0	592.9	618.0	637.8	638.2	656.5	667.7	681.8	683.4	684.9
25°	537.3	555.1	572.9	597.8	616.7	617.8	634.4	644.3	657.3	658.6	659.1
27.5°	518.1	532.7	549.7	571.0	590.1	589.3	605.1	616.3	627.9	627.1	626.9
30°	498.6	510.8	521.2	541.8	555.9	556.4	571.2	576.6	588.8	587.3	587.1
32.5°	484.9	488.1	490.9	501.4	514.7	510.0	520.1	526.9	535.3	534.7	534.9
35°	459.9	454.1	445.7	447.2	455.2	447.9	453.3	453.1	461.7	459.7	462.1
37.5°	417.0	400.6	381.9	371.2	372.7	363.5	361.7	366.1	369.1	363.3	365.4
40°	371.4	347.1	317.9	293.5	292.2	280.8	278.8	274.3	280.1	275.2	276.7
42.5°	337.7	305.5	267.2	237.6	231.2	221.7	216.1	215.3	217.0	213.7	212.7
45°	311.9	277.6	233.7	199.8	192.7	182.4	176.8	174.7	174.9	173.8	172.9
47.5°	281.6	247.1	202.6	168.0	160.0	150.2	144.6	143.3	144.1	142.6	141.4
50°	239.7	208.8	168.2	136.6	129.5	122.4	117.9	116.6	116.4	115.2	114.5
52.5°	194.6	168.9	133.8	107.4	101.0	94.1	90.9	89.2	89.4	88.3	87.2
55°	150.6	134.7	103.6	81.2	75.4	70.0	67.0	64.9	64.4	63.2	62.7
57.5°	112.1	101.4	77.6	58.6	55.2	50.0	47.0	44.5	44.2	43.6	43.4
60°	78.6	70.9	54.6	41.7	37.8	34.6	31.6	29.2	28.1	27.9	27.3
62.5°	50.9	46.2	35.9	27.9	24.9	22.6	19.6	18.0	17.2	16.5	16.7
65°	31.6	28.1	22.5	18.0	16.3	14.6	12.3	10.9	10.1	9.4	9.5
67.5°	19.6	17.6	14.2	11.6	10.5	9.2	7.5	6.4	5.8	5.2	4.9
70°	13.3	11.4	9.7	8.2	7.5	6.5	5.4	4.5	4.1	3.7	3.4
72.5°	9.4	8.4	7.1	6.2	5.6	4.9	4.1	3.6	3.2	2.8	2.4
75°	6.7	6.0	5.2	4.5	4.1	3.7	3.2	2.8	2.4	2.1	1.7
77.5°	4.9	4.3	3.7	3.4	3.2	2.6	2.2	2.1	1.9	1.5	1.1
80°	3.4	3.0	2.4	2.2	2.2	1.9	1.7	1.5	1.3	0.9	0.7
82.5°	2.2	2.1	1.9	1.7	1.5	1.3	1.3	0.9	0.7	0.6	0.4
85°	1.7	1.5	1.3	1.1	1.1	0.9	0.7	0.6	0.6	0.4	0.2
87.5°	0.9	0.9	0.7	0.6	0.6	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°	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1
2.5°	718.4	719.0	722.2	719.7	725.9	730.4	728.2	733.2	731.5	731.2	737.0
5°	723.3	724.6	728.9	726.7	733.4	738.3	736.0	741.6	740.0	739.6	745.6
7.5°	732.7	734.0	737.7	735.8	742.9	747.2	744.4	750.6	748.4	748.2	754.0
10°	744.4	746.3	749.5	747.6	754.2	757.9	755.1	761.1	759.0	758.1	764.5
12.5°	753.2	754.5	757.7	756.2	762.6	765.4	763.0	768.8	766.1	765.4	771.0
15°	751.2	752.5	755.1	753.8	759.8	762.4	759.2	765.6	763.0	761.5	766.5
17.5°	738.1	738.8	740.7	739.4	745.8	747.4	743.9	750.2	747.8	745.2	750.1
20°	718.8	718.4	719.6	719.0	724.2	725.2	722.9	727.6	724.8	723.3	726.1
22.5°	694.9	694.5	695.2	693.7	699.0	699.5	696.2	701.8	699.0	696.2	700.8
25°	668.3	666.2	665.9	666.4	670.0	670.5	667.0	671.1	667.5	665.3	669.8
27.5°	635.6	632.9	632.4	632.9	636.5	633.9	630.9	633.9	630.3	628.3	631.1
30°	595.1	591.4	589.7	588.6	592.3	591.4	584.5	587.8	582.2	579.2	581.3
32.5°	540.7	538.6	534.1	531.5	535.1	528.0	523.7	523.7	521.4	516.4	517.5
35°	465.1	461.9	457.8	455.6	456.1	446.6	439.5	441.0	433.5	432.2	432.7
37.5°	369.5	364.3	362.8	358.1	359.2	350.8	341.1	341.3	337.3	333.2	331.9
40°	277.6	276.7	275.2	271.3	272.8	263.6	259.9	260.1	257.4	254.4	255.9
42.5°	214.6	211.6	210.7	209.4	209.7	208.2	203.4	203.9	201.7	200.9	200.2
45°	174.4	171.2	168.9	170.1	170.1	168.4	166.5	167.6	166.5	165.0	165.8
47.5°	143.7	140.7	139.6	139.4	140.7	139.6	137.7	138.1	137.9	137.3	137.0
50°	114.7	113.9	113.0	112.4	113.0	112.6	110.9	111.9	112.4	110.6	111.1
52.5°	87.4	87.4	87.2	85.9	87.0	85.9	85.7	86.1	85.5	84.8	84.6
55°	64.0	63.4	62.5	62.3	62.7	62.3	61.9	62.1	62.5	60.6	60.6
57.5°	43.8	43.4	42.8	42.8	43.6	42.7	42.1	42.8	42.1	41.3	41.3
60°	28.1	27.9	27.3	27.3	27.3	27.1	26.6	26.8	27.1	26.0	26.2
62.5°	16.8	16.3	16.1	15.9	16.1	15.9	15.9	15.7	15.5	15.5	15.0
65°	9.2	8.8	8.4	8.6	8.6	8.4	8.4	8.4	8.0	7.9	7.7
67.5°	4.7	4.3	4.3	4.1	4.1	4.1	4.1	3.9	3.9	3.9	3.7
70°	3.0	2.8	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.2
72.5°	2.1	1.9	1.7	1.7	1.7	1.5	1.5	1.5	1.5	1.3	1.3
75°	1.5	1.3	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	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°	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1
2.5°	734.9	733.4	734.3	741.3	738.3	737.3	729.5	736.4
5°	743.7	742.6	742.6	750.4	746.9	746.1	738.5	744.4
7.5°	751.9	750.8	751.0	759.0	756.2	755.1	747.4	753.4
10°	762.6	761.8	762.0	769.7	766.7	765.6	757.7	763.9
12.5°	769.0	767.8	767.8	776.1	772.7	771.0	763.5	769.5
15°	764.1	762.4	762.4	770.6	766.9	764.5	757.9	763.5
17.5°	747.4	745.8	745.8	752.9	750.1	746.5	739.8	745.0
20°	724.2	722.2	721.6	729.8	725.9	722.7	716.8	721.8
22.5°	698.0	697.1	695.4	703.7	700.1	696.7	690.4	694.3
25°	666.6	665.1	663.4	671.5	667.9	664.6	659.5	662.7
27.5°	627.5	627.7	626.8	633.1	629.6	627.7	621.5	626.8
30°	580.2	578.1	577.4	584.9	581.5	579.1	571.4	576.4
32.5°	518.4	515.4	511.5	519.9	514.1	512.1	505.5	512.8
35°	428.6	427.7	424.1	431.2	428.1	424.3	420.2	426.4
37.5°	331.3	332.1	331.7	333.6	331.7	329.3	324.8	322.5
40°	252.9	251.1	249.6	252.9	249.0	249.0	246.4	249.2
42.5°	198.3	197.6	199.4	200.2	197.9	197.6	197.2	197.0
45°	163.7	163.7	164.1	164.8	164.1	163.7	162.6	161.8
47.5°	134.9	135.6	134.9	137.3	136.0	135.6	133.4	134.3
50°	109.3	108.3	109.3	110.0	110.2	109.1	108.0	108.5
52.5°	84.8	83.3	82.9	84.0	83.3	83.3	82.5	82.3
55°	59.7	60.2	59.3	60.2	59.9	59.3	58.7	59.5
57.5°	40.4	40.6	40.2	40.8	39.9	40.0	39.9	39.7
60°	26.2	25.4	25.4	26.0	25.1	25.1	24.9	24.9
62.5°	15.0	14.8	14.8	14.6	14.4	14.4	14.4	14.0
65°	7.7	7.5	7.3	7.3	7.3	7.3	7.1	7.1
67.5°	3.7	3.6	3.6	3.7	3.6	3.6	3.6	3.6
70°	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.6	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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