

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: P246199

Luminaire Tested: **LSR8B15D010 EC8B15850 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246199
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 EC8B15850 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1568.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

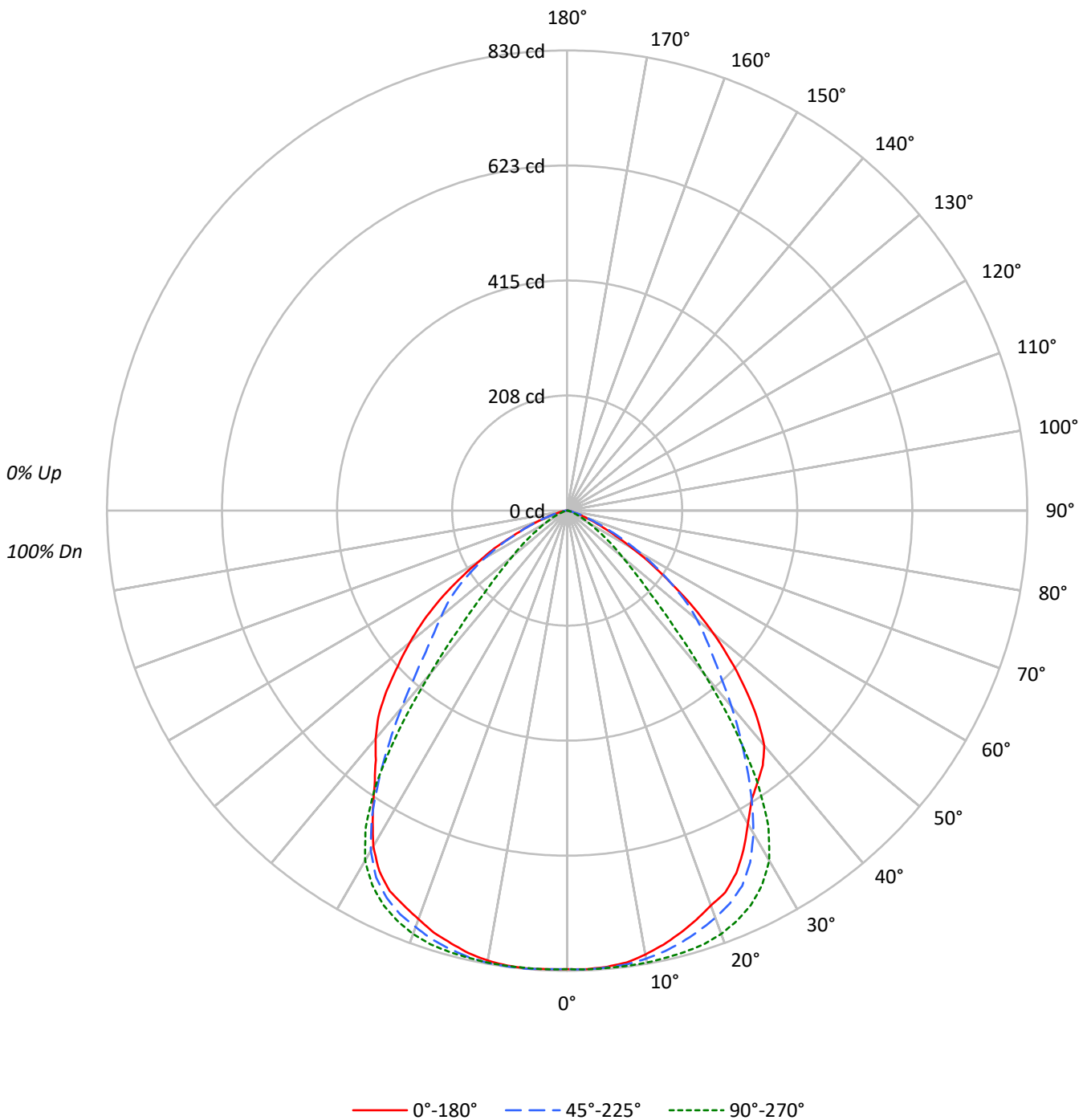
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25511	25511	25511
5°	25568	25636	25664
10°	25460	25920	25807
15°	25179	26299	25801
20°	24874	26666	25734
25°	24552	26699	25760
30°	23226	25947	24889
35°	22534	22553	22786
40°	22256	15518	21628
45°	19829	9315	20099
50°	16488	6198	17769
55°	12365	4274	15064
60°	8381	2849	11366
65°	5056	1846	7807
70°	2804	1001	4805
75°	1275	429	2490
80°	1101	479	1740
85°	1274	637	1734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	5.0
10°-20°	229.3	14.6
20°-30°	348.0	22.2
30°-40°	365.5	23.3
40°-50°	274.1	17.5
50°-60°	175.8	11.2
60°-70°	75.2	4.8
70°-80°	17.8	1.1
80°-90°	3.3	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°	656.3	41.9
0°-40°	1021.8	65.2
0°-60°	1471.7	93.9
0°-90°	1568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	827	827	827	827	827	
5°	826	827	828	830	829	78
15°	789	805	824	818	808	222
25°	722	747	785	770	757	330
35°	599	565	599	592	605	376
45°	455	372	214	361	461	348
55°	230	230	80	240	280	209
65°	69	82	25	105	107	74
75°	11	12	4	21	21	16
85°	4	2	2	4	5	4
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°	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3
2.5°	827.8	828.6	828.2	828.2	827.8	828.2	828.2	829.1	829.1	828.2	827.8
5°	826.0	826.9	826.9	826.0	826.0	828.2	826.9	827.8	827.8	827.3	827.3
7.5°	822.0	822.0	823.8	822.4	822.4	823.8	823.3	824.2	825.1	825.5	825.5
10°	813.1	814.0	814.4	814.4	814.9	816.2	817.1	818.9	819.8	820.6	821.1
12.5°	802.0	803.3	803.8	803.3	804.7	806.4	808.7	810.9	812.2	814.0	815.3
15°	788.7	788.7	789.6	790.9	791.8	794.4	796.7	799.3	802.9	805.1	807.3
17.5°	774.0	774.9	776.2	776.2	778.0	782.5	783.8	787.8	791.8	794.0	798.4
20°	758.0	758.9	760.3	761.1	763.4	766.9	769.6	773.1	777.6	781.6	786.0
22.5°	745.6	743.8	744.7	745.6	747.8	750.9	754.0	758.5	762.9	766.9	771.4
25°	721.6	722.1	723.4	724.3	727.0	729.6	733.2	738.5	742.5	746.9	751.8
27.5°	689.2	689.6	691.9	691.9	694.1	698.5	700.7	705.2	710.5	715.0	720.7
30°	652.3	653.2	653.2	655.0	656.3	658.6	660.8	665.2	667.9	671.9	679.9
32.5°	618.6	619.5	619.0	618.6	617.3	616.8	616.4	617.3	618.2	619.5	622.6
35°	598.6	596.4	594.6	591.5	588.0	583.5	579.5	574.2	569.3	565.3	560.9
37.5°	579.5	579.1	576.4	572.0	564.9	556.9	547.5	536.0	524.4	512.0	500.0
40°	552.9	551.5	549.3	543.1	535.1	525.3	512.9	498.7	480.0	460.9	441.4
42.5°	507.6	508.0	505.4	500.5	492.9	483.6	470.7	455.2	435.2	412.5	387.2
45°	454.7	454.7	453.8	449.8	444.5	437.0	427.2	414.3	394.8	371.7	344.6
47.5°	399.7	400.1	398.8	397.9	395.7	390.8	383.7	373.9	360.1	337.9	310.8
50°	343.7	343.7	345.9	345.5	345.5	343.7	340.6	334.8	322.8	305.1	279.8
52.5°	287.8	288.6	290.0	291.8	294.0	297.5	294.0	291.3	283.8	270.0	248.2
55°	230.0	230.9	233.1	236.2	238.9	242.5	243.3	243.3	239.4	230.0	213.6
57.5°	180.7	179.4	181.2	183.8	187.4	191.0	193.6	196.7	196.3	190.1	176.7
60°	135.9	136.3	137.7	140.3	143.0	146.1	149.7	152.3	153.7	150.5	142.1
62.5°	99.0	99.0	100.8	103.5	104.8	109.2	111.5	112.8	114.1	113.7	108.4
65°	69.3	70.2	71.1	72.4	73.7	76.4	77.7	80.4	81.3	81.7	77.7
67.5°	48.9	47.5	48.4	49.3	50.6	52.4	55.1	55.1	56.4	56.4	53.7
70°	31.1	31.1	31.5	32.9	33.7	34.2	35.1	36.0	37.3	36.9	36.9
72.5°	20.9	20.4	20.9	21.3	21.8	23.1	23.1	23.5	24.4	24.9	23.1
75°	10.7	11.1	12.0	11.6	12.9	12.0	12.4	13.8	13.3	12.4	12.4
77.5°	8.9	8.9	8.9	8.4	9.3	9.3	8.9	9.8	9.3	9.3	8.9
80°	6.2	6.7	6.2	5.8	6.2	5.8	5.8	5.8	5.8	5.8	5.3
82.5°	4.9	4.0	4.4	4.0	4.4	4.4	4.0	3.6	3.6	4.0	3.6
85°	3.6	2.7	3.1	3.1	2.7	2.7	2.7	2.7	2.7	2.2	2.2
87.5°	2.2	1.3	1.3	1.3	1.8	1.8	1.8	1.3	1.8	1.8	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3
2.5°	828.6	828.2	829.1	828.6	828.6	828.2	828.6	828.2	829.1	827.3	827.8
5°	828.6	827.8	828.2	828.6	829.1	828.2	828.2	828.2	829.1	828.2	828.6
7.5°	826.9	826.4	827.8	828.6	828.2	827.8	828.6	828.2	829.1	828.6	829.5
10°	823.3	823.8	824.6	826.0	826.4	826.9	827.8	827.8	829.1	827.3	828.2
12.5°	818.0	819.8	822.0	822.9	824.6	824.6	825.5	826.0	826.9	826.4	827.8
15°	811.3	813.5	816.2	818.4	820.6	822.0	823.3	823.8	825.1	823.8	824.2
17.5°	803.3	806.0	810.0	812.6	816.2	817.5	819.3	820.2	821.5	820.6	821.1
20°	792.2	795.3	799.8	803.8	806.0	809.1	811.3	812.6	813.5	812.6	813.1
22.5°	776.7	781.1	786.9	790.0	794.4	797.1	797.6	800.7	802.9	800.7	801.6
25°	758.5	762.9	767.4	774.0	778.0	781.1	784.2	784.7	786.9	786.5	786.0
27.5°	728.3	734.1	741.6	746.9	752.3	757.1	760.7	761.6	763.8	762.9	763.4
30°	687.0	693.2	700.3	708.7	716.3	721.2	725.6	728.7	730.9	729.6	729.2
32.5°	628.4	634.6	642.1	650.6	659.5	666.5	671.9	675.9	678.5	677.7	675.4
35°	561.3	563.1	568.0	574.6	582.2	589.7	594.6	599.1	602.2	603.0	603.0
37.5°	492.5	486.7	483.2	483.2	487.6	490.7	495.1	497.8	502.7	504.5	505.8
40°	425.9	412.5	400.1	390.8	384.6	384.1	384.1	385.5	389.9	395.7	401.0
42.5°	366.4	345.0	326.0	308.6	296.2	289.1	286.0	286.4	290.0	295.3	304.2
45°	318.8	292.2	268.2	247.3	230.5	219.4	214.0	213.6	216.3	222.5	232.3
47.5°	282.0	253.6	226.5	202.5	184.3	172.3	166.1	164.3	166.1	171.9	183.4
50°	251.3	222.0	194.1	169.2	149.7	137.2	131.4	129.2	131.4	136.3	147.9
52.5°	222.9	192.7	166.5	142.5	121.7	111.0	104.8	103.5	104.8	110.6	119.9
55°	190.1	164.3	138.5	114.6	96.4	85.7	80.8	79.5	80.8	86.2	95.9
57.5°	157.7	135.4	112.8	91.0	75.5	66.2	61.7	59.9	63.1	66.6	78.2
60°	127.4	109.7	90.6	71.5	58.6	50.2	46.6	46.2	47.1	51.5	59.5
62.5°	99.9	85.3	70.2	54.6	44.0	40.4	36.0	35.5	36.4	39.1	45.3
65°	71.9	62.6	51.1	40.0	31.5	26.6	24.9	25.3	26.2	28.0	33.7
67.5°	50.2	43.5	35.5	28.0	21.8	19.5	17.8	17.3	17.8	20.9	24.0
70°	33.7	29.8	24.0	21.3	15.1	12.0	12.4	11.1	12.9	12.9	15.5
72.5°	22.2	19.5	16.0	12.4	10.7	8.4	8.4	8.0	8.9	9.3	11.6
75°	11.6	8.9	8.9	6.2	4.4	2.2	4.0	3.6	3.1	3.6	4.4
77.5°	8.0	6.7	6.2	4.9	4.4	3.6	3.6	3.6	3.6	4.0	4.4
80°	4.9	4.9	3.6	3.1	2.7	2.2	2.7	2.7	2.7	2.7	3.1
82.5°	3.1	2.7	2.7	2.2	2.2	1.8	1.8	1.8	1.8	1.8	2.7
85°	2.7	1.8	1.8	1.3	1.8	3.1	1.3	1.8	1.8	1.8	1.3
87.5°	0.9	1.3	1.3	1.3	0.9	0.4	0.9	1.3	1.3	2.2	1.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3
2.5°	828.6	829.1	829.1	828.6	828.6	827.8	829.5	828.2	828.6	830.4	829.1
5°	829.5	830.0	830.0	829.5	829.5	829.5	830.0	830.0	829.5	829.1	830.0
7.5°	831.3	830.9	830.9	830.0	830.0	829.1	830.0	828.6	829.5	828.6	830.0
10°	829.1	829.5	829.1	828.6	828.6	828.2	828.2	826.9	827.3	826.0	826.9
12.5°	827.8	827.3	827.3	826.4	825.5	824.6	824.2	822.9	822.9	819.8	821.1
15°	824.2	824.6	823.3	821.5	820.6	818.4	817.5	815.8	814.0	811.8	812.2
17.5°	821.1	819.8	818.0	816.2	812.6	810.9	809.1	806.4	805.5	802.9	802.0
20°	811.8	810.9	808.7	805.5	803.3	799.3	797.6	794.9	792.7	790.0	788.7
22.5°	799.8	798.9	796.2	793.1	789.6	787.8	786.0	781.1	778.9	776.2	775.8
25°	784.7	783.3	780.7	777.1	775.3	770.5	768.7	765.1	764.3	761.6	761.1
27.5°	761.6	759.8	756.7	752.3	749.2	746.0	744.3	741.6	740.7	738.0	737.6
30°	727.0	724.7	718.5	716.7	711.4	708.3	708.3	704.7	705.2	703.4	703.4
32.5°	672.3	668.8	663.9	660.3	656.8	655.0	655.0	653.7	654.6	654.6	655.5
35°	599.9	595.1	592.4	590.2	590.2	591.9	597.3	598.6	601.3	603.5	605.3
37.5°	507.1	506.7	509.8	512.5	519.1	526.7	536.0	544.0	551.5	556.9	562.2
40°	406.8	417.9	426.8	439.2	449.4	464.1	480.9	494.7	507.6	516.9	526.7
42.5°	317.5	331.7	350.4	368.6	386.8	406.8	429.0	448.1	464.9	477.8	488.0
45°	247.3	266.9	289.5	312.6	336.2	361.0	384.1	403.7	421.4	434.7	445.0
47.5°	199.4	220.7	246.5	271.8	298.4	324.6	350.4	367.3	381.9	392.6	401.9
50°	164.7	187.4	214.5	243.3	270.0	296.2	318.4	334.8	346.8	356.1	361.9
52.5°	137.7	161.6	190.5	219.4	246.0	270.0	290.0	302.4	312.2	318.8	324.2
55°	113.7	136.8	163.9	191.0	217.2	239.8	256.2	265.6	273.1	277.1	280.2
57.5°	92.8	114.1	139.0	163.9	186.5	205.2	218.0	227.4	230.9	234.0	233.6
60°	72.8	92.8	115.5	136.8	156.3	171.4	180.7	186.1	188.7	190.1	189.2
62.5°	57.3	75.5	92.8	111.5	125.7	138.5	147.4	147.4	148.8	149.2	150.5
65°	42.6	56.4	71.5	85.3	96.8	105.2	110.1	111.5	113.2	112.8	111.9
67.5°	31.5	41.7	52.8	63.1	71.1	76.4	79.9	83.0	82.6	81.7	81.3
70°	21.8	28.4	38.2	44.4	50.2	55.5	56.4	56.8	57.3	57.7	56.8
72.5°	15.1	20.0	25.3	30.6	34.2	36.4	38.6	39.1	39.1	39.1	38.6
75°	7.6	10.2	15.1	17.3	20.4	21.3	23.1	23.1	24.4	22.6	22.2
77.5°	6.7	8.0	10.7	12.4	13.8	15.1	15.5	16.9	16.4	15.5	16.0
80°	4.0	4.9	6.7	7.6	9.3	9.8	10.2	10.7	10.2	10.7	10.7
82.5°	3.1	3.6	4.4	4.4	5.8	5.8	6.2	6.2	6.7	6.7	6.7
85°	1.8	3.1	2.7	5.3	3.6	3.6	4.4	5.3	4.4	4.4	5.3
87.5°	1.8	1.8	1.3	1.8	1.8	1.8	2.2	2.7	2.7	3.1	2.7
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°	827.3	827.3	827.3	827.3
2.5°	828.6	829.5	828.2	827.8
5°	830.0	830.0	829.1	829.1
7.5°	830.0	830.0	828.6	827.8
10°	826.4	826.4	825.1	824.2
12.5°	819.8	819.8	819.3	818.0
15°	811.3	811.3	809.5	808.2
17.5°	799.8	800.7	798.4	798.4
20°	787.3	786.9	785.1	784.2
22.5°	774.5	773.6	773.1	770.5
25°	760.7	759.8	758.5	757.1
27.5°	737.2	736.7	735.4	733.6
30°	701.2	700.7	699.0	699.0
32.5°	654.6	654.1	652.3	652.8
35°	606.2	607.9	607.0	605.3
37.5°	565.7	567.1	568.0	567.1
40°	532.0	536.0	536.4	537.3
42.5°	496.0	501.4	503.1	504.0
45°	453.0	457.8	461.8	460.9
47.5°	409.0	412.5	416.1	413.4
50°	366.8	369.0	370.4	370.4
52.5°	326.8	326.8	326.4	326.8
55°	281.1	281.1	279.3	280.2
57.5°	233.1	234.0	232.7	230.5
60°	188.7	186.5	185.6	184.3
62.5°	147.0	147.0	143.9	147.9
65°	110.1	108.8	107.5	107.0
67.5°	79.9	79.5	78.2	77.7
70°	56.4	54.6	54.2	53.3
72.5°	37.7	37.7	36.9	36.9
75°	23.1	20.9	20.4	20.9
77.5°	16.0	15.5	15.5	15.1
80°	10.7	10.2	11.1	9.8
82.5°	6.7	7.1	6.7	7.1
85°	4.4	5.3	4.9	4.9
87.5°	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0

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