

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: P244590

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244590
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: LSR8B10D010 EC8B10827 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1084.0 lumens
Efficiency: N/A
Efficacy: 106.3 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

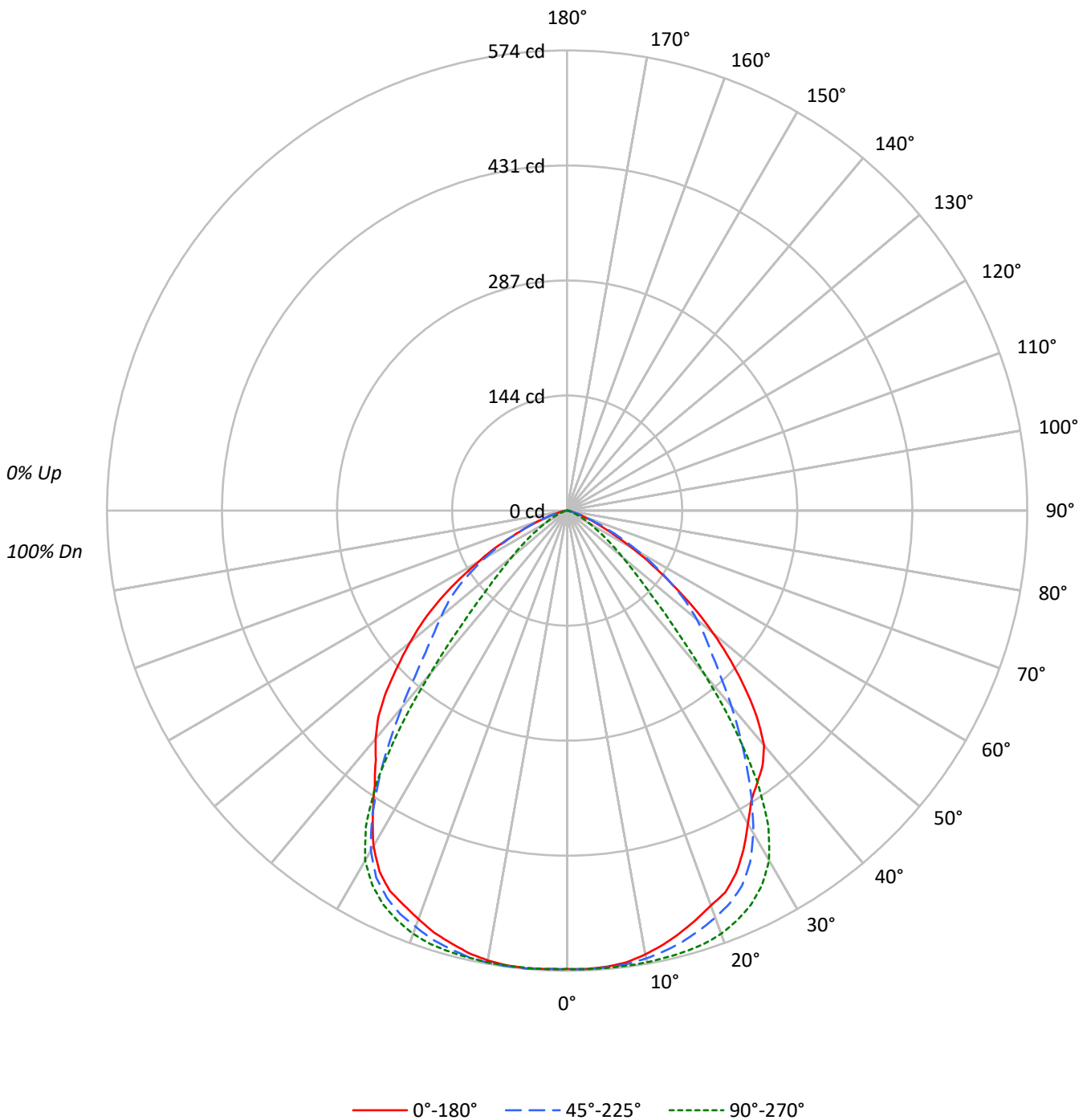
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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	52					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°	17635	17635	17635
5°	17675	17724	17743
10°	17600	17917	17842
15°	17405	18181	17836
20°	17199	18436	17792
25°	16975	18458	17808
30°	16059	17939	17205
35°	15577	15588	15750
40°	15385	10728	14954
45°	13711	6441	13898
50°	11398	4284	12281
55°	8548	2957	10414
60°	5791	1967	7857
65°	3495	1277	5399
70°	1938	694	3318
75°	882	298	1716
80°	764	320	1208
85°	885	425	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	5.0
10°-20°	158.5	14.6
20°-30°	240.6	22.2
30°-40°	252.7	23.3
40°-50°	189.5	17.5
50°-60°	121.6	11.2
60°-70°	52.0	4.8
70°-80°	12.3	1.1
80°-90°	2.3	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°	453.7	41.9
0°-40°	706.4	65.2
0°-60°	1017.4	93.9
0°-90°	1084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	572	572	572	572	572	
5°	571	572	573	574	573	54
15°	545	557	570	566	559	154
25°	499	516	542	533	523	228
35°	414	391	414	409	418	260
45°	314	257	148	250	319	241
55°	159	159	55	166	194	144
65°	48	56	18	73	74	51
75°	7	9	2	15	14	11
85°	2	2	1	2	3	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°	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9
2.5°	572.2	572.9	572.6	572.6	572.2	572.6	572.6	573.2	573.2	572.6	572.2
5°	571.0	571.6	571.6	571.0	571.0	572.6	571.6	572.2	572.2	571.9	571.9
7.5°	568.3	568.3	569.5	568.6	568.6	569.5	569.2	569.8	570.4	570.7	570.7
10°	562.1	562.7	563.0	563.0	563.3	564.3	564.9	566.1	566.7	567.3	567.6
12.5°	554.4	555.4	555.7	555.4	556.3	557.5	559.0	560.6	561.5	562.7	563.7
15°	545.2	545.2	545.8	546.8	547.4	549.2	550.8	552.6	555.1	556.6	558.1
17.5°	535.1	535.7	536.6	536.6	537.9	540.9	541.9	544.6	547.4	548.9	552.0
20°	524.1	524.7	525.6	526.2	527.7	530.2	532.0	534.5	537.6	540.3	543.4
22.5°	515.5	514.2	514.8	515.5	517.0	519.1	521.3	524.4	527.4	530.2	533.3
25°	498.9	499.2	500.1	500.7	502.6	504.4	506.9	510.5	513.3	516.4	519.7
27.5°	476.5	476.8	478.3	478.3	479.8	482.9	484.4	487.5	491.2	494.3	498.3
30°	451.0	451.6	451.6	452.8	453.7	455.3	456.8	459.9	461.7	464.5	470.0
32.5°	427.7	428.3	428.0	427.7	426.7	426.4	426.1	426.7	427.3	428.3	430.4
35°	413.8	412.3	411.1	408.9	406.5	403.4	400.6	397.0	393.6	390.8	387.7
37.5°	400.6	400.3	398.5	395.4	390.5	385.0	378.5	370.5	362.6	354.0	345.7
40°	382.2	381.3	379.8	375.5	369.9	363.2	354.6	344.8	331.9	318.7	305.2
42.5°	350.9	351.2	349.4	346.0	340.8	334.3	325.4	314.7	300.9	285.2	267.7
45°	314.4	314.4	313.8	311.0	307.3	302.1	295.3	286.4	272.9	257.0	238.2
47.5°	276.3	276.6	275.7	275.1	273.5	270.2	265.2	258.5	249.0	233.6	214.9
50°	237.6	237.6	239.2	238.8	238.8	237.6	235.5	231.5	223.2	210.9	193.4
52.5°	198.9	199.6	200.5	201.7	203.2	205.7	203.2	201.4	196.2	186.7	171.6
55°	159.0	159.6	161.2	163.3	165.2	167.6	168.2	168.2	165.5	159.0	147.7
57.5°	125.0	124.0	125.3	127.1	129.6	132.0	133.9	136.0	135.7	131.4	122.2
60°	93.9	94.3	95.2	97.0	98.9	101.0	103.5	105.3	106.2	104.1	98.2
62.5°	68.5	68.5	69.7	71.5	72.5	75.5	77.1	78.0	78.9	78.6	74.9
65°	47.9	48.5	49.1	50.0	51.0	52.8	53.7	55.6	56.2	56.5	53.7
67.5°	33.8	32.8	33.5	34.1	35.0	36.2	38.1	38.1	39.0	39.0	37.1
70°	21.5	21.5	21.8	22.7	23.3	23.6	24.3	24.9	25.8	25.5	25.5
72.5°	14.4	14.1	14.4	14.7	15.0	16.0	16.0	16.3	16.9	17.2	16.0
75°	7.4	7.7	8.3	8.0	8.9	8.3	8.6	9.5	9.2	8.6	8.6
77.5°	6.1	6.1	6.1	5.8	6.4	6.4	6.1	6.8	6.4	6.4	6.1
80°	4.3	4.6	4.3	4.0	4.3	4.0	4.0	4.0	4.0	4.0	3.7
82.5°	3.4	2.8	3.1	2.8	3.1	3.1	2.8	2.5	2.5	2.8	2.5
85°	2.5	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.8	1.5	1.5
87.5°	1.5	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	0.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9
2.5°	572.9	572.6	573.2	572.9	572.9	572.6	572.9	572.6	573.2	571.9	572.2
5°	572.9	572.2	572.6	572.9	573.2	572.6	572.6	572.6	573.2	572.6	572.9
7.5°	571.6	571.3	572.2	572.9	572.6	572.2	572.9	572.6	573.2	572.9	573.5
10°	569.2	569.5	570.1	571.0	571.3	571.6	572.2	572.2	573.2	571.9	572.6
12.5°	565.5	566.7	568.3	568.9	570.1	570.1	570.7	571.0	571.6	571.3	572.2
15°	560.9	562.4	564.3	565.8	567.3	568.3	569.2	569.5	570.4	569.5	569.8
17.5°	555.4	557.2	560.0	561.8	564.3	565.2	566.4	567.0	568.0	567.3	567.6
20°	547.7	549.8	552.9	555.7	557.2	559.4	560.9	561.8	562.4	561.8	562.1
22.5°	536.9	540.0	544.0	546.2	549.2	551.1	551.4	553.5	555.1	553.5	554.1
25°	524.4	527.4	530.5	535.1	537.9	540.0	542.2	542.5	544.0	543.7	543.4
27.5°	503.5	507.5	512.7	516.4	520.1	523.4	525.9	526.5	528.0	527.4	527.7
30°	474.9	479.2	484.1	490.0	495.2	498.6	501.6	503.8	505.3	504.4	504.1
32.5°	434.4	438.7	443.9	449.8	455.9	460.8	464.5	467.3	469.1	468.5	466.9
35°	388.1	389.3	392.7	397.3	402.5	407.7	411.1	414.1	416.3	416.9	416.9
37.5°	340.5	336.5	334.0	334.0	337.1	339.2	342.3	344.1	347.5	348.7	349.7
40°	294.4	285.2	276.6	270.2	265.9	265.6	265.6	266.5	269.5	273.5	277.2
42.5°	253.3	238.5	225.3	213.4	204.8	199.9	197.7	198.0	200.5	204.2	210.3
45°	220.4	202.0	185.4	171.0	159.3	151.7	148.0	147.7	149.5	153.8	160.6
47.5°	194.9	175.3	156.6	140.0	127.4	119.1	114.8	113.6	114.8	118.8	126.8
50°	173.8	153.5	134.2	117.0	103.5	94.9	90.9	89.3	90.9	94.3	102.2
52.5°	154.1	133.2	115.1	98.5	84.1	76.7	72.5	71.5	72.5	76.4	82.9
55°	131.4	113.6	95.8	79.2	66.6	59.3	55.9	55.0	55.9	59.6	66.3
57.5°	109.0	93.6	78.0	62.9	52.2	45.7	42.7	41.4	43.6	46.0	54.0
60°	88.1	75.8	62.6	49.4	40.5	34.7	32.2	31.9	32.5	35.6	41.1
62.5°	69.1	58.9	48.5	37.8	30.4	27.9	24.9	24.6	25.2	27.0	31.3
65°	49.7	43.3	35.3	27.6	21.8	18.4	17.2	17.5	18.1	19.3	23.3
67.5°	34.7	30.1	24.6	19.3	15.0	13.5	12.3	12.0	12.3	14.4	16.6
70°	23.3	20.6	16.6	14.7	10.4	8.3	8.6	7.7	8.9	8.9	10.7
72.5°	15.3	13.5	11.0	8.6	7.4	5.8	5.8	5.5	6.1	6.4	8.0
75°	8.0	6.1	6.1	4.3	3.1	1.5	2.8	2.5	2.1	2.5	3.1
77.5°	5.5	4.6	4.3	3.4	3.1	2.5	2.5	2.5	2.5	2.8	3.1
80°	3.4	3.4	2.5	2.1	1.8	1.5	1.8	1.8	1.8	1.8	2.1
82.5°	2.1	1.8	1.8	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.8
85°	1.8	1.2	1.2	0.9	1.2	2.1	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.5	1.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9
2.5°	572.9	573.2	573.2	572.9	572.9	572.2	573.5	572.6	572.9	574.1	573.2
5°	573.5	573.8	573.8	573.5	573.5	573.5	573.8	573.8	573.5	573.2	573.8
7.5°	574.7	574.4	574.4	573.8	573.8	573.2	573.8	572.9	573.5	572.9	573.8
10°	573.2	573.5	573.2	572.9	572.9	572.6	572.6	571.6	571.9	571.0	571.6
12.5°	572.2	571.9	571.9	571.3	570.7	570.1	569.8	568.9	568.9	566.7	567.6
15°	569.8	570.1	569.2	568.0	567.3	565.8	565.2	564.0	562.7	561.2	561.5
17.5°	567.6	566.7	565.5	564.3	561.8	560.6	559.4	557.5	556.9	555.1	554.4
20°	561.2	560.6	559.0	556.9	555.4	552.6	551.4	549.5	548.0	546.2	545.2
22.5°	552.9	552.3	550.4	548.3	545.8	544.6	543.4	540.0	538.5	536.6	536.3
25°	542.5	541.5	539.7	537.3	536.0	532.6	531.4	529.0	528.3	526.5	526.2
27.5°	526.5	525.3	523.1	520.1	517.9	515.8	514.5	512.7	512.1	510.2	509.9
30°	502.6	501.0	496.7	495.5	491.8	489.7	489.7	487.2	487.5	486.3	486.3
32.5°	464.8	462.3	459.0	456.5	454.0	452.8	452.8	451.9	452.5	452.5	453.1
35°	414.8	411.4	409.5	408.0	408.0	409.2	412.9	413.8	415.7	417.2	418.4
37.5°	350.6	350.3	352.4	354.3	358.9	364.1	370.5	376.1	381.3	385.0	388.7
40°	281.2	288.9	295.0	303.6	310.7	320.8	332.5	342.0	350.9	357.4	364.1
42.5°	219.5	229.3	242.2	254.8	267.4	281.2	296.6	309.8	321.4	330.3	337.4
45°	171.0	184.5	200.2	216.1	232.4	249.6	265.6	279.1	291.3	300.6	307.6
47.5°	137.8	152.6	170.4	187.9	206.3	224.4	242.2	253.9	264.0	271.4	277.8
50°	113.9	129.6	148.3	168.2	186.7	204.8	220.1	231.5	239.8	246.2	250.2
52.5°	95.2	111.7	131.7	151.7	170.1	186.7	200.5	209.1	215.8	220.4	224.1
55°	78.6	94.6	113.3	132.0	150.1	165.8	177.1	183.6	188.8	191.6	193.7
57.5°	64.2	78.9	96.1	113.3	128.9	141.8	150.7	157.2	159.6	161.8	161.5
60°	50.4	64.2	79.8	94.6	108.1	118.5	125.0	128.6	130.5	131.4	130.8
62.5°	39.6	52.2	64.2	77.1	86.9	95.8	101.9	101.9	102.8	103.2	104.1
65°	29.5	39.0	49.4	58.9	66.9	72.8	76.1	77.1	78.3	78.0	77.4
67.5°	21.8	28.9	36.5	43.6	49.1	52.8	55.3	57.4	57.1	56.5	56.2
70°	15.0	19.7	26.4	30.7	34.7	38.4	39.0	39.3	39.6	39.9	39.3
72.5°	10.4	13.8	17.5	21.2	23.6	25.2	26.7	27.0	27.0	27.0	26.7
75°	5.2	7.1	10.4	12.0	14.1	14.7	16.0	16.0	16.9	15.7	15.3
77.5°	4.6	5.5	7.4	8.6	9.5	10.4	10.7	11.7	11.4	10.7	11.0
80°	2.8	3.4	4.6	5.2	6.4	6.8	7.1	7.4	7.1	7.4	7.4
82.5°	2.1	2.5	3.1	3.1	4.0	4.0	4.3	4.3	4.6	4.6	4.6
85°	1.2	2.1	1.8	3.7	2.5	2.5	3.1	3.7	3.1	3.1	3.7
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.5	1.8	1.8	2.1	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):

	165°	170°	175°	180°
0°	571.9	571.9	571.9	571.9
2.5°	572.9	573.5	572.6	572.2
5°	573.8	573.8	573.2	573.2
7.5°	573.8	573.8	572.9	572.2
10°	571.3	571.3	570.4	569.8
12.5°	566.7	566.7	566.4	565.5
15°	560.9	560.9	559.7	558.7
17.5°	552.9	553.5	552.0	552.0
20°	544.3	544.0	542.8	542.2
22.5°	535.4	534.8	534.5	532.6
25°	525.9	525.3	524.4	523.4
27.5°	509.6	509.3	508.4	507.2
30°	484.8	484.4	483.2	483.2
32.5°	452.5	452.2	451.0	451.3
35°	419.1	420.3	419.7	418.4
37.5°	391.1	392.0	392.7	392.0
40°	367.8	370.5	370.9	371.5
42.5°	342.9	346.6	347.8	348.4
45°	313.1	316.5	319.3	318.7
47.5°	282.7	285.2	287.7	285.8
50°	253.6	255.1	256.0	256.0
52.5°	226.0	226.0	225.6	226.0
55°	194.3	194.3	193.1	193.7
57.5°	161.2	161.8	160.9	159.3
60°	130.5	128.9	128.3	127.4
62.5°	101.6	101.6	99.5	102.2
65°	76.1	75.2	74.3	74.0
67.5°	55.3	55.0	54.0	53.7
70°	39.0	37.8	37.5	36.8
72.5°	26.1	26.1	25.5	25.5
75°	16.0	14.4	14.1	14.4
77.5°	11.0	10.7	10.7	10.4
80°	7.4	7.1	7.7	6.8
82.5°	4.6	4.9	4.6	4.9
85°	3.1	3.7	3.4	3.4
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

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