

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: P244591

Luminaire Tested: **LSR8B15D010 EC8B15827 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244591
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 EC8B15827 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: 1469.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

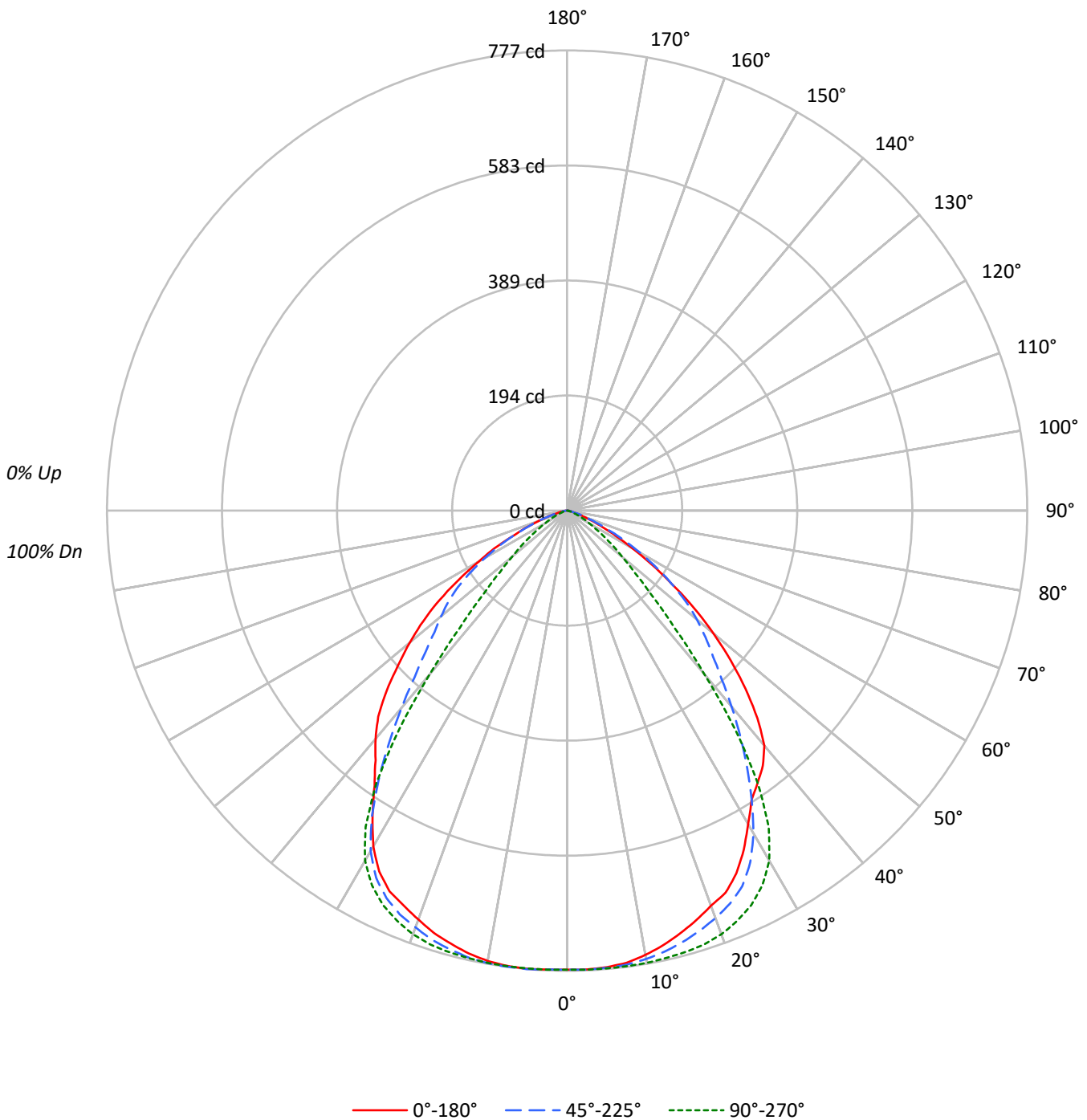
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	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°	23901	23901	23901
5°	23952	24017	24042
10°	23853	24282	24179
15°	23589	24636	24173
20°	23305	24982	24109
25°	23004	25011	24133
30°	21763	24309	23315
35°	21111	21126	21348
40°	20852	14536	20264
45°	18577	8726	18830
50°	15447	5810	16647
55°	11586	4005	14112
60°	7851	2670	10651
65°	4735	1729	7318
70°	2624	938	4499
75°	1191	393	2335
80°	1030	444	1634
85°	1168	601	1628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	5.0
10°-20°	214.8	14.6
20°-30°	326.1	22.2
30°-40°	342.5	23.3
40°-50°	256.8	17.5
50°-60°	164.7	11.2
60°-70°	70.5	4.8
70°-80°	16.6	1.1
80°-90°	3.1	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°	614.8	41.9
0°-40°	957.3	65.2
0°-60°	1378.8	93.9
0°-90°	1469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1469.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	775	775	775	775	775	
5°	774	775	776	777	777	74
15°	739	754	772	767	757	208
25°	676	700	735	722	709	309
35°	561	530	561	555	567	352
45°	426	348	200	338	432	326
55°	216	216	74	225	262	195
65°	65	77	24	99	100	69
75°	10	12	3	20	20	15
85°	3	2	2	3	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°	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1
2.5°	775.5	776.3	775.9	775.9	775.5	775.9	775.9	776.7	776.7	775.9	775.5
5°	773.8	774.7	774.7	773.8	773.8	775.9	774.7	775.5	775.5	775.1	775.1
7.5°	770.1	770.1	771.7	770.5	770.5	771.7	771.3	772.2	773.0	773.4	773.4
10°	761.8	762.6	763.0	763.0	763.4	764.7	765.5	767.2	768.0	768.8	769.3
12.5°	751.4	752.6	753.0	752.6	753.9	755.5	757.6	759.7	760.9	762.6	763.8
15°	738.9	738.9	739.7	741.0	741.8	744.3	746.4	748.9	752.2	754.3	756.4
17.5°	725.2	726.0	727.2	727.2	728.9	733.1	734.3	738.0	741.8	743.9	748.0
20°	710.2	711.0	712.3	713.1	715.2	718.5	721.0	724.3	728.5	732.2	736.4
22.5°	698.5	696.9	697.7	698.5	700.6	703.5	706.4	710.6	714.7	718.5	722.7
25°	676.1	676.5	677.7	678.5	681.1	683.5	686.9	691.9	695.6	699.8	704.3
27.5°	645.7	646.1	648.2	648.2	650.3	654.4	656.5	660.7	665.7	669.8	675.2
30°	611.2	612.0	612.0	613.7	614.9	617.0	619.1	623.2	625.7	629.5	637.0
32.5°	579.5	580.4	579.9	579.5	578.3	577.9	577.5	578.3	579.1	580.4	583.3
35°	560.8	558.7	557.1	554.2	550.8	546.7	542.9	537.9	533.4	529.6	525.5
37.5°	542.9	542.5	540.0	535.9	529.2	521.7	513.0	502.2	491.3	479.7	468.5
40°	518.0	516.7	514.6	508.8	501.3	492.2	480.5	467.2	449.7	431.8	413.5
42.5°	475.5	475.9	473.4	468.9	461.8	453.1	441.0	426.4	407.7	386.5	362.8
45°	426.0	426.0	425.2	421.4	416.5	409.4	400.2	388.2	369.9	348.2	322.8
47.5°	374.4	374.8	373.6	372.8	370.7	366.1	359.5	350.3	337.4	316.6	291.2
50°	322.0	322.0	324.1	323.7	323.7	322.0	319.1	313.7	302.5	285.8	262.1
52.5°	269.6	270.4	271.7	273.3	275.4	278.7	275.4	272.9	265.8	252.9	232.6
55°	215.5	216.3	218.4	221.3	223.8	227.2	228.0	228.0	224.2	215.5	200.1
57.5°	169.3	168.1	169.7	172.2	175.6	178.9	181.4	184.3	183.9	178.1	165.6
60°	127.3	127.7	129.0	131.5	134.0	136.9	140.2	142.7	144.0	141.0	133.1
62.5°	92.8	92.8	94.4	96.9	98.2	102.3	104.4	105.7	106.9	106.5	101.5
65°	64.9	65.7	66.6	67.8	69.1	71.6	72.8	75.3	76.1	76.6	72.8
67.5°	45.8	44.5	45.4	46.2	47.4	49.1	51.6	51.6	52.8	52.8	50.3
70°	29.1	29.1	29.5	30.8	31.6	32.0	32.9	33.7	34.9	34.5	34.5
72.5°	19.6	19.1	19.6	20.0	20.4	21.6	21.6	22.0	22.9	23.3	21.6
75°	10.0	10.4	11.2	10.8	12.1	11.2	11.6	12.9	12.5	11.6	11.6
77.5°	8.3	8.3	8.3	7.9	8.7	8.7	8.3	9.2	8.7	8.7	8.3
80°	5.8	6.2	5.8	5.4	5.8	5.4	5.4	5.4	5.4	5.4	5.0
82.5°	4.6	3.7	4.2	3.7	4.2	4.2	3.7	3.3	3.3	3.7	3.3
85°	3.3	2.5	2.9	2.9	2.5	2.5	2.5	2.5	2.5	2.1	2.1
87.5°	2.1	1.3	1.3	1.3	1.7	1.7	1.7	1.3	1.7	1.7	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°	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1
2.5°	776.3	775.9	776.7	776.3	776.3	775.9	776.3	775.9	776.7	775.1	775.5
5°	776.3	775.5	775.9	776.3	776.7	775.9	775.9	775.9	776.7	775.9	776.3
7.5°	774.7	774.2	775.5	776.3	775.9	775.5	776.3	775.9	776.7	776.3	777.2
10°	771.3	771.7	772.6	773.8	774.2	774.7	775.5	775.5	776.7	775.1	775.9
12.5°	766.3	768.0	770.1	770.9	772.6	772.6	773.4	773.8	774.7	774.2	775.5
15°	760.1	762.2	764.7	766.8	768.8	770.1	771.3	771.7	773.0	771.7	772.2
17.5°	752.6	755.1	758.8	761.3	764.7	765.9	767.6	768.4	769.7	768.8	769.3
20°	742.2	745.1	749.3	753.0	755.1	758.0	760.1	761.3	762.2	761.3	761.8
22.5°	727.6	731.8	737.2	740.1	744.3	746.8	747.2	750.1	752.2	750.1	750.9
25°	710.6	714.7	718.9	725.2	728.9	731.8	734.7	735.1	737.2	736.8	736.4
27.5°	682.3	687.7	694.8	699.8	704.8	709.3	712.7	713.5	715.6	714.7	715.2
30°	643.6	649.4	656.1	664.0	671.1	675.6	679.8	682.7	684.8	683.5	683.1
32.5°	588.7	594.5	601.6	609.5	617.8	624.5	629.5	633.2	635.7	634.9	632.8
35°	525.9	527.5	532.1	538.4	545.4	552.5	557.1	561.2	564.1	565.0	565.0
37.5°	461.4	456.0	452.7	452.7	456.8	459.7	463.9	466.4	471.0	472.6	473.9
40°	399.0	386.5	374.8	366.1	360.3	359.9	359.9	361.1	365.3	370.7	375.7
42.5°	343.2	323.3	305.4	289.1	277.5	270.8	267.9	268.3	271.7	276.7	285.0
45°	298.7	273.8	251.3	231.7	215.9	205.5	200.5	200.1	202.6	208.4	217.6
47.5°	264.2	237.6	212.2	189.7	172.7	161.4	155.6	153.9	155.6	161.0	171.8
50°	235.5	208.0	181.8	158.5	140.2	128.6	123.1	121.1	123.1	127.7	138.5
52.5°	208.8	180.6	156.0	133.5	114.0	104.0	98.2	96.9	98.2	103.6	112.3
55°	178.1	153.9	129.8	107.3	90.3	80.3	75.7	74.5	75.7	80.7	89.9
57.5°	147.7	126.9	105.7	85.3	70.7	62.0	57.8	56.2	59.1	62.4	73.2
60°	119.4	102.8	84.9	67.0	54.9	47.0	43.7	43.3	44.1	48.3	55.7
62.5°	93.6	79.9	65.7	51.2	41.2	37.9	33.7	33.3	34.1	36.6	42.4
65°	67.4	58.7	47.8	37.4	29.5	25.0	23.3	23.7	24.5	26.2	31.6
67.5°	47.0	40.8	33.3	26.2	20.4	18.3	16.6	16.2	16.6	19.6	22.5
70°	31.6	27.9	22.5	20.0	14.1	11.2	11.6	10.4	12.1	12.1	14.6
72.5°	20.8	18.3	15.0	11.6	10.0	7.9	7.9	7.5	8.3	8.7	10.8
75°	10.8	8.3	8.3	5.8	4.2	2.1	3.7	3.3	2.9	3.3	4.2
77.5°	7.5	6.2	5.8	4.6	4.2	3.3	3.3	3.3	3.3	3.7	4.2
80°	4.6	4.6	3.3	2.9	2.5	2.1	2.5	2.5	2.5	2.5	2.9
82.5°	2.9	2.5	2.5	2.1	2.1	1.7	1.7	1.7	1.7	1.7	2.5
85°	2.5	1.7	1.7	1.3	1.7	2.9	1.3	1.7	1.7	1.7	1.3
87.5°	0.8	1.3	1.3	1.3	0.8	0.4	0.8	1.3	1.3	2.1	1.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1
2.5°	776.3	776.7	776.7	776.3	776.3	775.5	777.2	775.9	776.3	778.0	776.7
5°	777.2	777.6	777.6	777.2	777.2	777.2	777.6	777.6	777.2	776.7	777.6
7.5°	778.8	778.4	778.4	777.6	777.6	776.7	777.6	776.3	777.2	776.3	777.6
10°	776.7	777.2	776.7	776.3	776.3	775.9	775.9	774.7	775.1	773.8	774.7
12.5°	775.5	775.1	775.1	774.2	773.4	772.6	772.2	770.9	770.9	768.0	769.3
15°	772.2	772.6	771.3	769.7	768.8	766.8	765.9	764.3	762.6	760.5	760.9
17.5°	769.3	768.0	766.3	764.7	761.3	759.7	758.0	755.5	754.7	752.2	751.4
20°	760.5	759.7	757.6	754.7	752.6	748.9	747.2	744.7	742.6	740.1	738.9
22.5°	749.3	748.4	745.9	743.0	739.7	738.0	736.4	731.8	729.7	727.2	726.8
25°	735.1	733.9	731.4	728.1	726.4	721.8	720.2	716.8	716.0	713.5	713.1
27.5°	713.5	711.8	708.9	704.8	701.9	698.9	697.3	694.8	694.0	691.4	691.0
30°	681.1	679.0	673.1	671.5	666.5	663.6	663.6	660.2	660.7	659.0	659.0
32.5°	629.9	626.6	622.0	618.6	615.3	613.7	613.7	612.4	613.2	613.2	614.1
35°	562.1	557.5	555.0	552.9	552.9	554.6	559.6	560.8	563.3	565.4	567.1
37.5°	475.1	474.7	477.6	480.1	486.3	493.4	502.2	509.6	516.7	521.7	526.7
40°	381.1	391.5	399.8	411.5	421.0	434.8	450.6	463.5	475.5	484.3	493.4
42.5°	297.5	310.8	328.3	345.3	362.4	381.1	401.9	419.8	435.6	447.7	457.2
45°	231.7	250.0	271.3	292.9	314.9	338.2	359.9	378.2	394.8	407.3	416.9
47.5°	186.8	206.8	230.9	254.6	279.6	304.1	328.3	344.1	357.8	367.8	376.5
50°	154.3	175.6	200.9	228.0	252.9	277.5	298.3	313.7	324.9	333.7	339.1
52.5°	129.0	151.4	178.5	205.5	230.5	252.9	271.7	283.3	292.5	298.7	303.7
55°	106.5	128.1	153.5	178.9	203.4	224.7	240.0	248.8	255.9	259.6	262.5
57.5°	87.0	106.9	130.2	153.5	174.7	192.2	204.3	213.0	216.3	219.3	218.8
60°	68.2	87.0	108.2	128.1	146.4	160.6	169.3	174.3	176.8	178.1	177.2
62.5°	53.7	70.7	87.0	104.4	117.7	129.8	138.1	138.1	139.4	139.8	141.0
65°	39.9	52.8	67.0	79.9	90.7	98.6	103.2	104.4	106.1	105.7	104.8
67.5°	29.5	39.1	49.5	59.1	66.6	71.6	74.9	77.8	77.4	76.6	76.1
70°	20.4	26.6	35.8	41.6	47.0	52.0	52.8	53.3	53.7	54.1	53.3
72.5°	14.1	18.7	23.7	28.7	32.0	34.1	36.2	36.6	36.6	36.6	36.2
75°	7.1	9.6	14.1	16.2	19.1	20.0	21.6	21.6	22.9	21.2	20.8
77.5°	6.2	7.5	10.0	11.6	12.9	14.1	14.6	15.8	15.4	14.6	15.0
80°	3.7	4.6	6.2	7.1	8.7	9.2	9.6	10.0	9.6	10.0	10.0
82.5°	2.9	3.3	4.2	4.2	5.4	5.4	5.8	5.8	6.2	6.2	6.2
85°	1.7	2.9	2.5	5.0	3.3	3.3	4.2	5.0	4.2	4.2	5.0
87.5°	1.7	1.7	1.3	1.7	1.7	1.7	2.1	2.5	2.5	2.9	2.5
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°	775.1	775.1	775.1	775.1
2.5°	776.3	777.2	775.9	775.5
5°	777.6	777.6	776.7	776.7
7.5°	777.6	777.6	776.3	775.5
10°	774.2	774.2	773.0	772.2
12.5°	768.0	768.0	767.6	766.3
15°	760.1	760.1	758.4	757.2
17.5°	749.3	750.1	748.0	748.0
20°	737.6	737.2	735.6	734.7
22.5°	725.6	724.7	724.3	721.8
25°	712.7	711.8	710.6	709.3
27.5°	690.6	690.2	689.0	687.3
30°	656.9	656.5	654.8	654.8
32.5°	613.2	612.8	611.2	611.6
35°	567.9	569.6	568.7	567.1
37.5°	530.0	531.3	532.1	531.3
40°	498.4	502.2	502.6	503.4
42.5°	464.7	469.7	471.4	472.2
45°	424.4	428.9	432.7	431.8
47.5°	383.2	386.5	389.8	387.3
50°	343.6	345.7	347.0	347.0
52.5°	306.2	306.2	305.8	306.2
55°	263.3	263.3	261.7	262.5
57.5°	218.4	219.3	218.0	215.9
60°	176.8	174.7	173.9	172.7
62.5°	137.7	137.7	134.8	138.5
65°	103.2	101.9	100.7	100.3
67.5°	74.9	74.5	73.2	72.8
70°	52.8	51.2	50.8	49.9
72.5°	35.4	35.4	34.5	34.5
75°	21.6	19.6	19.1	19.6
77.5°	15.0	14.6	14.6	14.1
80°	10.0	9.6	10.4	9.2
82.5°	6.2	6.7	6.2	6.7
85°	4.2	5.0	4.6	4.6
87.5°	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0

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