

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: P244182

Luminaire Tested: **LSR8B10D010 EC8B10850 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10850 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1213.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

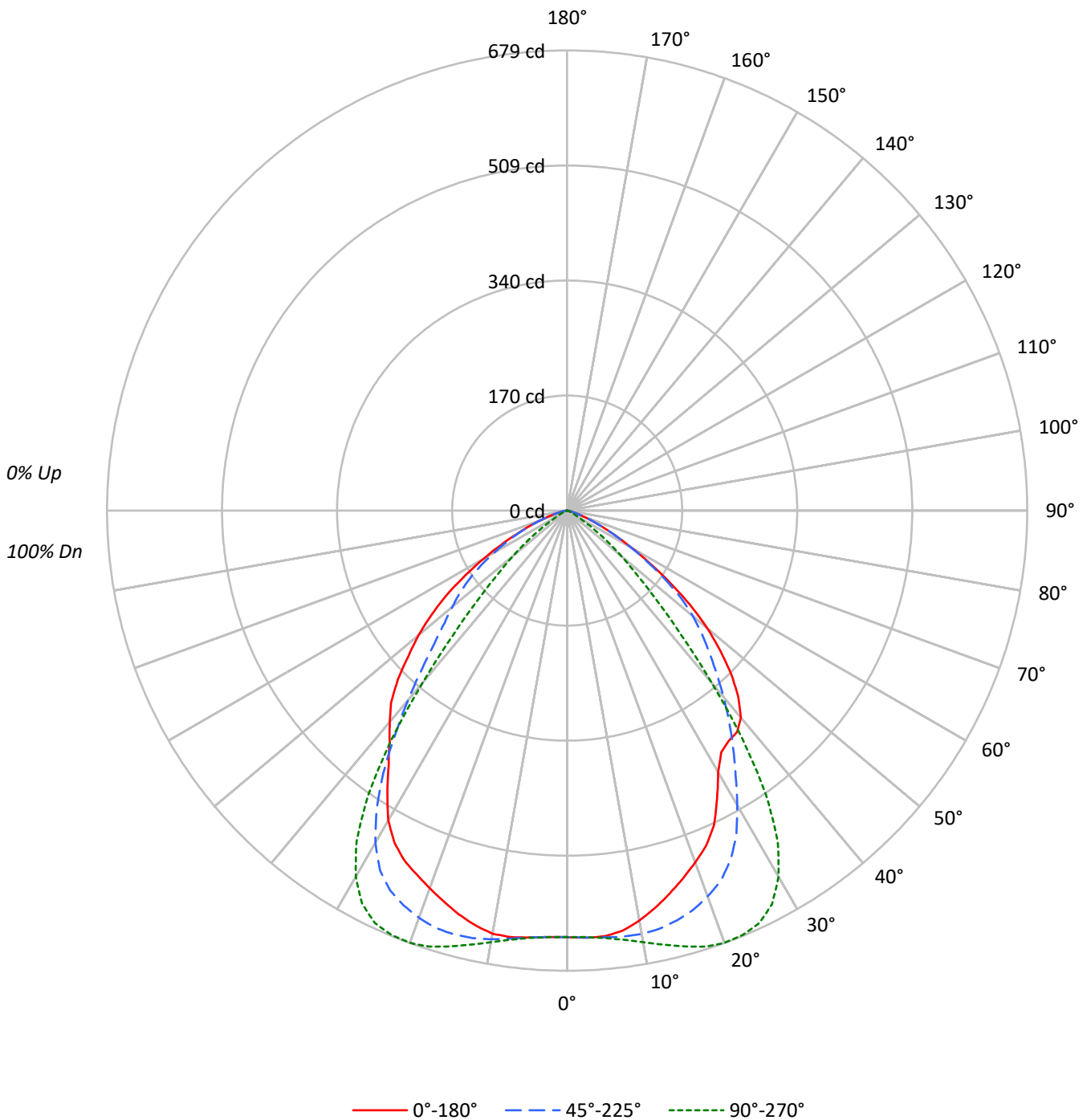
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19405	19405	19405
5°	19520	19591	19572
10°	19232	20246	19849
15°	18669	21252	19694
20°	18127	22272	19456
25°	17434	22844	19363
30°	15866	22215	18790
35°	15630	19251	17290
40°	16053	13352	16387
45°	14945	8068	15411
50°	12962	4984	13730
55°	9946	2602	11655
60°	6778	1048	8795
65°	4217	533	6071
70°	2290	334	3706
75°	1191	155	2192
80°	533	178	1190
85°	354	106	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	5.0
10°-20°	179.3	14.8
20°-30°	273.5	22.5
30°-40°	285.4	23.5
40°-50°	214.4	17.7
50°-60°	131.9	10.9
60°-70°	53.7	4.4
70°-80°	12.6	1.0
80°-90°	1.7	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°	513.3	42.3
0°-40°	798.7	65.8
0°-60°	1144.9	94.4
0°-90°	1213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	629	629	629	629	629	
5°	631	632	633	632	632	60
15°	585	626	666	647	617	165
25°	512	570	671	618	569	233
35°	415	427	511	473	459	262
45°	343	297	185	276	353	261
55°	185	176	48	176	217	166
65°	58	58	7	78	83	60
75°	10	10	1	18	18	12
85°	1	1	0	2	3	1
90°	0	0	0	0	0	



TEST NUMBER: P244182

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3
2.5°	630.9	629.9	630.9	630.9	631.3	630.6	630.9	631.3	630.6	630.6	630.6
5°	630.6	629.9	630.6	630.3	630.9	630.9	631.6	631.6	632.3	632.3	633.3
7.5°	625.3	623.9	625.3	626.3	626.9	628.3	629.9	631.3	632.6	633.9	635.6
10°	614.2	614.2	615.2	617.2	619.2	621.6	624.6	627.9	631.3	634.3	637.3
12.5°	600.5	599.5	601.5	604.2	607.2	610.9	615.6	620.6	625.9	631.9	636.6
15°	584.8	583.8	586.2	588.8	592.5	597.9	603.6	610.2	617.9	625.9	633.6
17.5°	568.8	568.5	570.8	574.5	577.5	583.2	590.5	598.5	607.2	617.9	627.9
20°	552.4	552.1	554.4	557.5	561.5	566.8	574.2	583.5	593.9	605.9	617.6
22.5°	535.4	535.7	537.7	541.1	544.4	550.1	557.8	567.1	578.5	591.5	604.5
25°	512.4	510.7	513.4	516.7	522.4	527.1	534.4	544.4	556.1	569.8	585.2
27.5°	479.0	478.6	481.0	484.0	489.0	494.7	502.7	513.0	525.4	540.4	555.4
30°	445.6	446.2	447.2	450.2	453.6	459.3	467.3	476.0	487.6	502.0	518.0
32.5°	422.8	422.8	424.2	426.2	428.5	431.5	437.2	443.6	452.6	462.6	474.3
35°	415.2	413.8	415.2	415.5	415.8	416.5	417.5	419.5	422.5	426.9	431.2
37.5°	411.8	410.8	410.8	409.5	407.8	405.8	403.1	400.1	396.8	392.5	389.1
40°	398.8	398.1	397.5	396.1	392.5	388.4	384.1	377.1	369.4	358.7	348.0
42.5°	373.8	373.1	372.7	370.1	366.7	362.1	357.1	349.7	340.0	326.3	311.0
45°	342.7	341.4	340.4	338.0	335.7	331.7	327.0	320.3	310.6	296.6	278.2
47.5°	306.6	305.9	305.6	304.6	302.3	299.9	296.9	291.6	282.9	269.5	250.5
50°	270.2	268.9	269.5	269.2	268.2	266.5	264.5	260.9	254.2	242.2	224.8
52.5°	228.5	228.5	228.1	229.1	229.5	229.1	229.5	225.5	219.8	210.8	196.1
55°	185.0	185.0	186.0	187.4	188.7	189.0	188.7	187.0	183.0	175.7	162.7
57.5°	144.3	143.6	145.6	147.6	149.0	150.3	149.3	148.0	145.6	139.6	129.6
60°	109.9	109.9	111.2	112.6	113.9	115.2	114.9	114.6	112.6	108.5	100.5
62.5°	80.8	81.2	81.2	82.2	83.5	84.8	85.8	84.8	83.8	81.2	75.8
65°	57.8	57.4	57.8	58.8	59.8	61.1	61.8	61.5	60.5	58.5	54.4
67.5°	38.7	38.4	39.7	40.1	40.7	42.1	41.8	42.1	41.8	40.1	36.7
70°	25.4	24.7	25.4	25.0	26.1	26.4	27.1	27.4	27.1	26.1	25.0
72.5°	15.7	15.4	15.7	16.0	16.4	16.7	17.4	17.4	17.0	16.4	15.0
75°	10.0	9.0	9.3	8.7	9.3	9.3	10.0	10.4	10.0	10.0	9.3
77.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.3	6.7	6.0	5.7
80°	3.0	3.0	3.3	3.3	3.3	3.7	3.3	3.3	3.3	3.7	2.7
82.5°	2.3	2.0	2.0	2.0	2.3	2.0	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.3	1.0	0.7	1.0	1.0	1.3	1.0	1.0	1.0	1.3
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.7	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3
2.5°	630.9	630.3	630.3	629.9	630.6	629.9	630.3	629.9	629.9	630.6	629.9
5°	633.3	633.6	632.9	632.6	633.6	633.6	633.6	632.9	632.9	633.3	632.9
7.5°	636.6	637.3	637.6	637.9	638.6	639.0	639.0	638.6	638.3	639.3	637.9
10°	640.3	641.3	643.3	644.3	646.0	646.0	646.6	646.6	646.0	646.6	646.3
12.5°	639.0	645.0	648.3	650.6	653.0	655.0	655.7	656.0	655.7	657.0	655.7
15°	641.3	646.3	651.6	655.7	660.0	662.3	663.0	665.7	666.3	666.7	664.7
17.5°	637.6	646.6	652.3	658.3	664.7	669.0	673.0	674.7	675.0	675.7	673.0
20°	629.3	639.3	648.0	656.7	664.0	670.7	674.0	678.7	677.4	680.0	676.4
22.5°	617.9	629.3	640.3	651.6	659.3	667.3	674.4	677.7	679.4	679.4	675.4
25°	599.9	613.2	625.3	636.9	648.6	658.3	666.3	671.4	672.4	672.0	667.3
27.5°	571.8	586.2	600.2	613.6	627.9	639.3	648.6	654.6	656.3	656.3	651.3
30°	533.1	548.4	562.1	578.2	592.9	605.6	618.6	623.9	626.9	626.9	621.3
32.5°	487.0	500.0	512.7	528.4	544.4	558.8	571.1	578.5	582.2	581.8	576.8
35°	436.9	443.2	452.9	464.6	479.0	492.3	504.3	511.4	517.7	517.4	512.7
37.5°	386.8	385.1	386.1	390.5	399.5	408.8	418.2	424.9	430.2	432.5	431.5
40°	337.7	329.0	320.6	317.6	318.3	321.6	326.7	331.7	337.7	340.7	342.0
42.5°	293.6	278.9	264.2	253.2	246.8	244.8	247.2	248.8	252.5	256.8	261.2
45°	258.2	238.5	219.1	202.1	191.4	185.0	183.7	185.0	187.0	191.4	197.1
47.5°	229.1	206.1	184.4	165.3	149.6	141.3	138.9	138.3	140.3	144.3	152.0
50°	203.4	180.4	156.3	134.3	117.9	108.5	105.2	103.9	106.2	109.2	116.2
52.5°	175.4	152.6	127.9	106.5	89.5	79.8	76.2	74.1	75.5	79.5	86.5
55°	145.0	123.9	101.5	79.5	63.1	54.1	49.8	48.4	49.8	54.1	61.1
57.5°	114.6	96.9	78.2	57.4	42.8	33.7	29.4	28.1	31.7	33.4	40.7
60°	89.5	75.2	59.1	42.1	29.4	22.4	18.0	17.0	18.7	21.7	27.7
62.5°	67.1	58.1	45.4	30.1	21.7	14.4	12.0	11.0	12.0	14.4	19.0
65°	48.8	41.8	31.7	22.0	14.7	10.7	8.0	7.3	8.4	10.0	14.0
67.5°	33.4	28.1	22.0	15.4	10.0	6.7	5.7	5.7	6.0	7.3	10.4
70°	21.7	18.4	14.0	10.0	6.7	5.0	4.3	3.7	4.3	5.3	7.0
72.5°	13.7	11.7	9.0	7.0	5.0	3.7	3.0	2.7	3.3	4.0	5.3
75°	8.4	6.3	4.7	3.7	2.7	2.7	2.7	1.3	1.7	2.7	3.3
77.5°	5.0	4.3	3.7	3.0	2.3	1.3	1.3	1.3	1.7	2.0	3.0
80°	2.7	2.3	1.7	1.7	1.3	1.0	1.3	1.0	0.7	1.7	2.0
82.5°	1.7	1.3	1.3	1.3	1.7	0.7	1.0	0.7	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.7	1.7	0.7	0.7	0.3	0.3	0.7	0.7
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3
2.5°	630.3	629.9	630.3	629.9	629.9	629.9	630.3	630.3	629.9	629.9	630.6
5°	632.9	632.9	632.9	632.6	632.3	632.3	632.9	632.9	631.9	632.9	632.9
7.5°	638.6	637.6	638.6	637.3	636.6	636.9	637.3	636.6	635.9	636.3	636.3
10°	646.0	645.0	645.0	644.0	643.0	642.3	641.6	640.0	638.3	637.9	636.6
12.5°	654.6	653.0	652.0	650.0	648.3	646.0	644.0	641.3	637.9	635.6	633.3
15°	663.3	660.7	658.3	655.0	651.3	647.3	643.0	638.6	633.3	628.6	624.6
17.5°	670.3	666.7	662.3	657.0	651.6	645.6	639.3	632.9	625.3	619.2	614.6
20°	672.7	667.3	661.7	654.6	647.6	639.3	631.3	622.9	614.2	607.9	602.5
22.5°	669.7	663.3	656.3	649.0	639.6	630.6	621.3	611.6	603.9	595.2	590.2
25°	661.3	653.6	646.0	637.3	628.3	618.2	608.2	598.2	588.8	584.2	577.8
27.5°	644.3	635.9	627.6	618.6	608.2	598.2	587.9	578.2	570.1	563.8	560.1
30°	614.2	604.5	594.9	585.2	576.2	565.8	556.1	548.1	540.1	535.1	531.4
32.5°	568.1	559.5	549.8	540.4	532.1	523.4	515.4	508.4	502.7	499.3	496.7
35°	506.0	497.3	490.0	483.3	476.3	472.6	467.6	463.6	461.3	459.9	459.6
37.5°	427.9	422.8	420.5	419.2	417.8	416.8	417.5	419.2	420.5	422.8	425.5
40°	344.4	348.7	350.0	354.7	359.1	364.7	371.1	378.4	384.4	392.1	397.5
42.5°	268.2	276.2	285.6	295.6	306.3	316.6	329.3	341.0	351.7	361.4	369.7
45°	206.1	218.4	232.5	246.8	261.2	276.2	291.6	305.9	318.6	329.0	337.7
47.5°	160.7	174.4	192.4	210.1	227.5	245.2	262.2	277.2	287.9	297.9	305.6
50°	127.3	143.0	162.7	183.0	202.1	220.8	238.8	252.8	263.5	271.5	277.2
52.5°	98.5	117.2	137.3	158.7	179.0	199.4	216.1	229.1	237.8	244.8	249.2
55°	73.5	91.9	113.2	135.3	156.0	175.7	191.4	202.7	210.4	214.4	216.8
57.5°	53.1	69.8	91.2	113.2	131.9	150.6	163.3	173.7	178.0	180.4	181.4
60°	38.7	54.1	73.1	92.2	109.9	124.9	135.9	143.0	146.3	147.6	147.3
62.5°	28.4	41.8	58.1	74.1	88.5	100.9	109.6	114.2	115.9	116.6	115.6
65°	21.7	32.1	46.1	58.5	69.5	78.5	84.8	87.8	88.8	88.5	87.8
67.5°	16.0	24.1	34.4	43.8	51.8	58.8	62.1	64.8	65.5	64.5	63.5
70°	11.4	17.7	25.0	31.4	37.4	41.4	45.1	45.4	45.4	45.1	44.4
72.5°	8.0	12.4	17.0	21.4	25.0	28.1	29.4	30.4	30.1	29.7	29.1
75°	5.3	7.7	12.4	13.4	16.7	17.7	19.0	19.0	19.4	18.4	18.4
77.5°	3.3	5.3	7.3	8.7	10.0	11.4	12.0	12.0	12.4	12.0	12.0
80°	2.0	3.3	4.0	6.0	6.0	7.0	7.3	7.7	7.0	8.0	7.0
82.5°	1.3	2.0	3.0	3.0	3.7	4.3	4.3	4.7	4.7	4.3	4.3
85°	1.0	1.3	1.7	2.0	2.0	2.3	2.0	2.0	2.3	2.7	2.3
87.5°	0.3	0.7	0.3	0.7	0.7	1.3	1.0	1.0	1.0	1.3	1.3
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°	629.3	629.3	629.3	629.3
2.5°	629.9	630.3	629.9	629.9
5°	632.9	632.6	632.9	632.3
7.5°	635.3	635.3	634.9	634.9
10°	635.3	633.9	633.9	633.9
12.5°	630.3	628.6	627.6	626.9
15°	621.6	618.6	617.2	616.9
17.5°	610.2	607.6	605.9	604.9
20°	597.2	594.5	592.5	592.9
22.5°	585.8	582.8	581.5	580.8
25°	574.5	570.8	569.8	569.1
27.5°	556.1	554.1	553.1	552.1
30°	528.1	527.1	525.4	527.7
32.5°	495.7	494.0	492.7	493.7
35°	459.9	458.9	459.9	459.3
37.5°	427.2	428.2	429.5	430.2
40°	401.5	405.1	406.5	407.1
42.5°	375.8	380.1	382.8	384.4
45°	344.0	348.4	351.4	353.4
47.5°	311.3	315.0	318.0	317.6
50°	281.6	283.6	284.9	286.2
52.5°	251.5	251.5	251.8	251.8
55°	217.4	216.8	216.4	216.8
57.5°	180.0	179.4	179.0	178.0
60°	146.0	144.0	142.6	142.6
62.5°	114.2	111.9	110.9	110.6
65°	85.8	85.5	83.5	83.2
67.5°	62.1	60.8	59.5	59.8
70°	43.8	41.8	41.8	41.1
72.5°	28.4	27.4	27.1	27.1
75°	17.7	17.7	17.0	18.4
77.5°	11.7	11.7	11.4	11.7
80°	7.0	7.0	7.0	6.7
82.5°	4.3	4.7	4.3	4.3
85°	2.3	2.7	2.0	3.0
87.5°	1.3	1.7	1.3	1.7
90°	0.0	0.0	0.0	0.0

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