

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: P245497

Luminaire Tested: **LSR8B15D010 EC8B15935 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245497
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: LSR8B15D010 EC8B15935 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1346.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

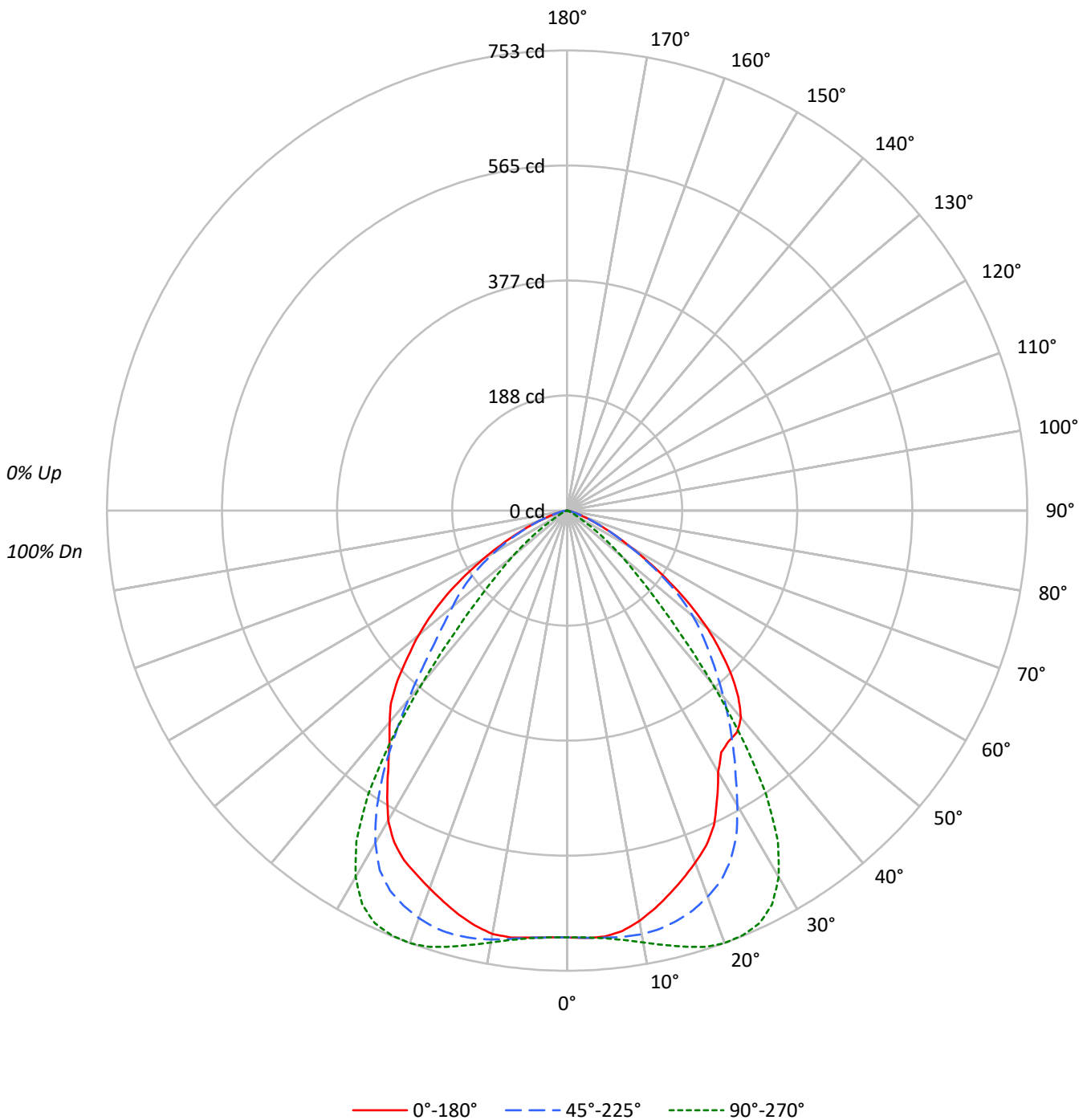
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	74	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°	21533	21533	21533
5°	21659	21739	21717
10°	21342	22466	22028
15°	20719	23582	21852
20°	20116	24713	21589
25°	19343	25348	21486
30°	17604	24651	20851
35°	17343	21359	19183
40°	17812	14813	18187
45°	16585	8953	17099
50°	14382	5531	15236
55°	11037	2887	12930
60°	7518	1166	9763
65°	4677	598	6735
70°	2542	370	4111
75°	1322	179	2431
80°	586	195	1314
85°	389	142	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	5.0
10°-20°	198.9	14.8
20°-30°	303.5	22.5
30°-40°	316.7	23.5
40°-50°	237.9	17.7
50°-60°	146.4	10.9
60°-70°	59.6	4.4
70°-80°	14.0	1.0
80°-90°	1.9	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°	569.6	42.3
0°-40°	886.2	65.8
0°-60°	1270.5	94.4
0°-90°	1346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	698	698	698	698	698	
5°	700	702	702	702	702	66
15°	649	695	739	718	684	183
25°	568	632	745	686	632	258
35°	461	474	567	524	510	291
45°	380	329	205	306	392	290
55°	205	195	54	195	240	185
65°	64	65	8	87	92	67
75°	11	11	2	20	20	13
85°	1	1	0	3	3	2
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°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3
2.5°	700.1	699.0	700.1	700.1	700.5	699.7	700.1	700.5	699.7	699.7	699.7
5°	699.7	699.0	699.7	699.4	700.1	700.1	700.9	700.9	701.6	701.6	702.7
7.5°	693.8	692.3	693.8	694.9	695.7	697.2	699.0	700.5	702.0	703.5	705.3
10°	681.6	681.6	682.7	684.9	687.1	689.7	693.1	696.8	700.5	703.8	707.2
12.5°	666.4	665.3	667.5	670.5	673.8	677.9	683.1	688.6	694.6	701.2	706.4
15°	649.0	647.9	650.4	653.4	657.5	663.4	669.7	677.1	685.7	694.6	703.1
17.5°	631.2	630.8	633.4	637.5	640.8	647.1	655.3	664.2	673.8	685.7	696.8
20°	613.0	612.6	615.2	618.6	623.0	629.0	637.1	647.5	659.0	672.3	685.3
22.5°	594.1	594.5	596.7	600.4	604.1	610.4	618.9	629.3	641.9	656.4	670.8
25°	568.5	566.7	569.7	573.4	579.7	584.8	593.0	604.1	617.1	632.3	649.3
27.5°	531.5	531.1	533.7	537.0	542.6	548.9	557.8	569.3	583.0	599.7	616.3
30°	494.4	495.2	496.3	499.6	503.3	509.6	518.5	528.1	541.1	557.0	574.8
32.5°	469.2	469.2	470.7	472.9	475.5	478.9	485.2	492.2	502.2	513.3	526.3
35°	460.7	459.2	460.7	461.1	461.4	462.2	463.3	465.5	468.8	473.7	478.5
37.5°	457.0	455.9	455.9	454.4	452.5	450.3	447.3	444.0	440.3	435.5	431.8
40°	442.5	441.8	441.0	439.6	435.5	431.0	426.2	418.4	409.9	398.0	386.2
42.5°	414.7	414.0	413.6	410.7	406.9	401.8	396.2	388.0	377.3	362.1	345.1
45°	380.3	378.8	377.7	375.1	372.5	368.0	362.8	355.4	344.7	329.1	308.7
47.5°	340.2	339.5	339.1	338.0	335.4	332.8	329.5	323.6	313.9	299.1	278.0
50°	299.8	298.4	299.1	298.7	297.6	295.8	293.5	289.5	282.0	268.7	249.4
52.5°	253.5	253.5	253.1	254.2	254.6	254.2	254.6	250.2	243.9	233.9	217.6
55°	205.3	205.3	206.4	207.9	209.4	209.8	209.4	207.6	203.1	194.9	180.5
57.5°	160.1	159.4	161.6	163.8	165.3	166.8	165.7	164.2	161.6	154.9	143.8
60°	121.9	121.9	123.4	124.9	126.4	127.9	127.5	127.1	124.9	120.4	111.6
62.5°	89.7	90.1	90.1	91.2	92.7	94.1	95.2	94.1	93.0	90.1	84.1
65°	64.1	63.7	64.1	65.2	66.3	67.8	68.6	68.2	67.1	64.9	60.4
67.5°	43.0	42.6	44.1	44.5	45.2	46.7	46.3	46.7	46.3	44.5	40.8
70°	28.2	27.4	28.2	27.8	28.9	29.3	30.0	30.4	30.0	28.9	27.8
72.5°	17.4	17.0	17.4	17.8	18.2	18.5	19.3	19.3	18.9	18.2	16.7
75°	11.1	10.0	10.4	9.6	10.4	10.4	11.1	11.5	11.1	11.1	10.4
77.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.0	7.4	6.7	6.3
80°	3.3	3.3	3.7	3.7	3.7	4.1	3.7	3.7	3.7	4.1	3.0
82.5°	2.6	2.2	2.2	2.2	2.6	2.2	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.5	1.1	0.7	1.1	1.1	1.5	1.1	1.1	1.1	1.5
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	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°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3
2.5°	700.1	699.4	699.4	699.0	699.7	699.0	699.4	699.0	699.0	699.7	699.0
5°	702.7	703.1	702.3	702.0	703.1	703.1	703.1	702.3	702.3	702.7	702.3
7.5°	706.4	707.2	707.5	707.9	708.6	709.0	709.0	708.6	708.3	709.4	707.9
10°	710.5	711.6	713.8	714.9	716.8	716.8	717.5	717.5	716.8	717.5	717.2
12.5°	709.0	715.7	719.4	722.0	724.6	726.8	727.5	727.9	727.5	729.0	727.5
15°	711.6	717.2	723.1	727.5	732.4	734.9	735.7	738.7	739.4	739.8	737.6
17.5°	707.5	717.5	723.8	730.5	737.6	742.4	746.8	748.7	749.0	749.8	746.8
20°	698.3	709.4	719.0	728.7	736.8	744.2	747.9	753.1	751.6	754.6	750.5
22.5°	685.7	698.3	710.5	723.1	731.6	740.5	748.3	752.0	753.9	753.9	749.4
25°	665.6	680.5	693.8	706.8	719.8	730.5	739.4	745.0	746.1	745.7	740.5
27.5°	634.5	650.4	666.0	680.8	696.8	709.4	719.8	726.4	728.3	728.3	722.7
30°	591.5	608.6	623.8	641.6	657.9	671.9	686.4	692.3	695.7	695.7	689.4
32.5°	540.4	554.8	568.9	586.3	604.1	620.1	633.8	641.9	646.0	645.6	640.1
35°	484.8	491.8	502.6	515.5	531.5	546.3	559.6	567.4	574.5	574.1	568.9
37.5°	429.2	427.3	428.4	433.3	443.3	453.6	464.0	471.4	477.4	480.0	478.9
40°	374.7	365.1	355.8	352.5	353.2	356.9	362.5	368.0	374.7	378.0	379.5
42.5°	325.8	309.5	293.2	280.9	273.9	271.7	274.3	276.1	280.2	285.0	289.8
45°	286.5	264.6	243.1	224.2	212.4	205.3	203.8	205.3	207.6	212.4	218.7
47.5°	254.2	228.7	204.6	183.5	166.0	156.8	154.2	153.4	155.7	160.1	168.6
50°	225.7	200.1	173.5	149.0	130.8	120.4	116.7	115.3	117.9	121.2	129.0
52.5°	194.6	169.4	142.0	118.2	99.3	88.6	84.5	82.3	83.8	88.2	96.0
55°	160.9	137.5	112.7	88.2	70.0	60.0	55.2	53.7	55.2	60.0	67.8
57.5°	127.1	107.5	86.7	63.7	47.4	37.4	32.6	31.1	35.2	37.1	45.2
60°	99.3	83.4	65.6	46.7	32.6	24.8	20.0	18.9	20.8	24.1	30.8
62.5°	74.5	64.5	50.4	33.4	24.1	15.9	13.3	12.2	13.3	15.9	21.1
65°	54.1	46.3	35.2	24.5	16.3	11.9	8.9	8.2	9.3	11.1	15.6
67.5°	37.1	31.1	24.5	17.0	11.1	7.4	6.3	6.3	6.7	8.2	11.5
70°	24.1	20.4	15.6	11.1	7.4	5.6	4.8	4.1	4.8	5.9	7.8
72.5°	15.2	13.0	10.0	7.8	5.6	4.1	3.3	3.0	3.7	4.4	5.9
75°	9.3	7.0	5.2	4.1	3.0	3.0	3.0	1.5	1.9	3.0	3.7
77.5°	5.6	4.8	4.1	3.3	2.6	1.5	1.5	1.5	1.9	2.2	3.3
80°	3.0	2.6	1.9	1.9	1.5	1.1	1.5	1.1	0.7	1.9	2.2
82.5°	1.9	1.5	1.5	1.5	1.9	0.7	1.1	0.7	1.1	1.5	1.1
85°	1.1	1.1	1.1	0.7	1.9	0.7	0.7	0.4	0.4	0.7	0.7
87.5°	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.4
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°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3
2.5°	699.4	699.0	699.4	699.0	699.0	699.0	699.4	699.4	699.0	699.0	699.7
5°	702.3	702.3	702.3	702.0	701.6	701.6	702.3	702.3	701.2	702.3	702.3
7.5°	708.6	707.5	708.6	707.2	706.4	706.8	707.2	706.4	705.7	706.0	706.0
10°	716.8	715.7	715.7	714.6	713.5	712.7	712.0	710.1	708.3	707.9	706.4
12.5°	726.4	724.6	723.5	721.2	719.4	716.8	714.6	711.6	707.9	705.3	702.7
15°	736.1	733.1	730.5	726.8	722.7	718.3	713.5	708.6	702.7	697.5	693.1
17.5°	743.8	739.8	734.9	729.0	723.1	716.4	709.4	702.3	693.8	687.1	682.0
20°	746.4	740.5	734.2	726.4	718.6	709.4	700.5	691.2	681.6	674.5	668.6
22.5°	743.1	736.1	728.3	720.1	709.7	699.7	689.4	678.6	670.1	660.5	654.9
25°	733.8	725.3	716.8	707.2	697.2	686.0	674.9	663.8	653.4	648.2	641.2
27.5°	714.9	705.7	696.4	686.4	674.9	663.8	652.3	641.6	632.7	625.6	621.5
30°	681.6	670.8	660.1	649.3	639.3	627.8	617.1	608.2	599.3	593.7	589.7
32.5°	630.4	620.8	610.1	599.7	590.4	580.8	571.9	564.1	557.8	554.1	551.1
35°	561.5	551.9	543.7	536.3	528.5	524.4	518.9	514.4	511.8	510.4	510.0
37.5°	474.8	469.2	466.6	465.1	463.7	462.5	463.3	465.1	466.6	469.2	472.2
40°	382.1	386.9	388.4	393.6	398.4	404.7	411.8	419.9	426.6	435.1	441.0
42.5°	297.6	306.5	316.9	328.0	339.9	351.4	365.4	378.4	390.3	401.0	410.3
45°	228.7	242.4	258.0	273.9	289.8	306.5	323.6	339.5	353.6	365.1	374.7
47.5°	178.3	193.5	213.5	233.1	252.4	272.0	290.9	307.6	319.5	330.6	339.1
50°	141.2	158.6	180.5	203.1	224.2	245.0	265.0	280.6	292.4	301.3	307.6
52.5°	109.3	130.1	152.3	176.0	198.7	221.3	239.8	254.2	263.9	271.7	276.5
55°	81.5	101.9	125.6	150.1	173.1	194.9	212.4	225.0	233.5	237.9	240.5
57.5°	58.9	77.5	101.2	125.6	146.4	167.2	181.2	192.7	197.5	200.1	201.3
60°	43.0	60.0	81.2	102.3	121.9	138.6	150.8	158.6	162.3	163.8	163.4
62.5°	31.5	46.3	64.5	82.3	98.2	111.9	121.6	126.8	128.6	129.3	128.2
65°	24.1	35.6	51.1	64.9	77.1	87.1	94.1	97.5	98.6	98.2	97.5
67.5°	17.8	26.7	38.2	48.6	57.4	65.2	68.9	71.9	72.6	71.5	70.4
70°	12.6	19.6	27.8	34.8	41.5	46.0	50.0	50.4	50.4	50.0	49.3
72.5°	8.9	13.7	18.9	23.7	27.8	31.1	32.6	33.7	33.4	33.0	32.2
75°	5.9	8.5	13.7	14.8	18.5	19.6	21.1	21.1	21.5	20.4	20.4
77.5°	3.7	5.9	8.2	9.6	11.1	12.6	13.3	13.3	13.7	13.3	13.3
80°	2.2	3.7	4.4	6.7	6.7	7.8	8.2	8.5	7.8	8.9	7.8
82.5°	1.5	2.2	3.3	3.3	4.1	4.8	4.8	5.2	5.2	4.8	4.8
85°	1.1	1.5	1.9	2.2	2.2	2.6	2.2	2.2	2.6	3.0	2.6
87.5°	0.4	0.7	0.4	0.7	0.7	1.5	1.1	1.1	1.1	1.5	1.5
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°	698.3	698.3	698.3	698.3
2.5°	699.0	699.4	699.0	699.0
5°	702.3	702.0	702.3	701.6
7.5°	704.9	704.9	704.6	704.6
10°	704.9	703.5	703.5	703.5
12.5°	699.4	697.5	696.4	695.7
15°	689.7	686.4	684.9	684.5
17.5°	677.1	674.2	672.3	671.2
20°	662.7	659.7	657.5	657.9
22.5°	650.1	646.7	645.3	644.5
25°	637.5	633.4	632.3	631.5
27.5°	617.1	614.9	613.8	612.6
30°	586.0	584.8	583.0	585.6
32.5°	550.0	548.2	546.7	547.8
35°	510.4	509.2	510.4	509.6
37.5°	474.0	475.1	476.6	477.4
40°	445.5	449.6	451.1	451.8
42.5°	417.0	421.8	424.7	426.6
45°	381.7	386.6	389.9	392.1
47.5°	345.4	349.5	352.8	352.5
50°	312.4	314.7	316.1	317.6
52.5°	279.1	279.1	279.4	279.4
55°	241.3	240.5	240.2	240.5
57.5°	199.8	199.0	198.7	197.5
60°	162.0	159.7	158.3	158.3
62.5°	126.8	124.2	123.1	122.7
65°	95.2	94.9	92.7	92.3
67.5°	68.9	67.5	66.0	66.3
70°	48.6	46.3	46.3	45.6
72.5°	31.5	30.4	30.0	30.0
75°	19.6	19.6	18.9	20.4
77.5°	13.0	13.0	12.6	13.0
80°	7.8	7.8	7.8	7.4
82.5°	4.8	5.2	4.8	4.8
85°	2.6	3.0	2.2	3.3
87.5°	1.5	1.9	1.5	1.9
90°	0.0	0.0	0.0	0.0

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