

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: P246121

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246121  
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 EC8B15840 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1377.0 lumens  
Efficiency: N/A  
Efficacy: 95.6 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

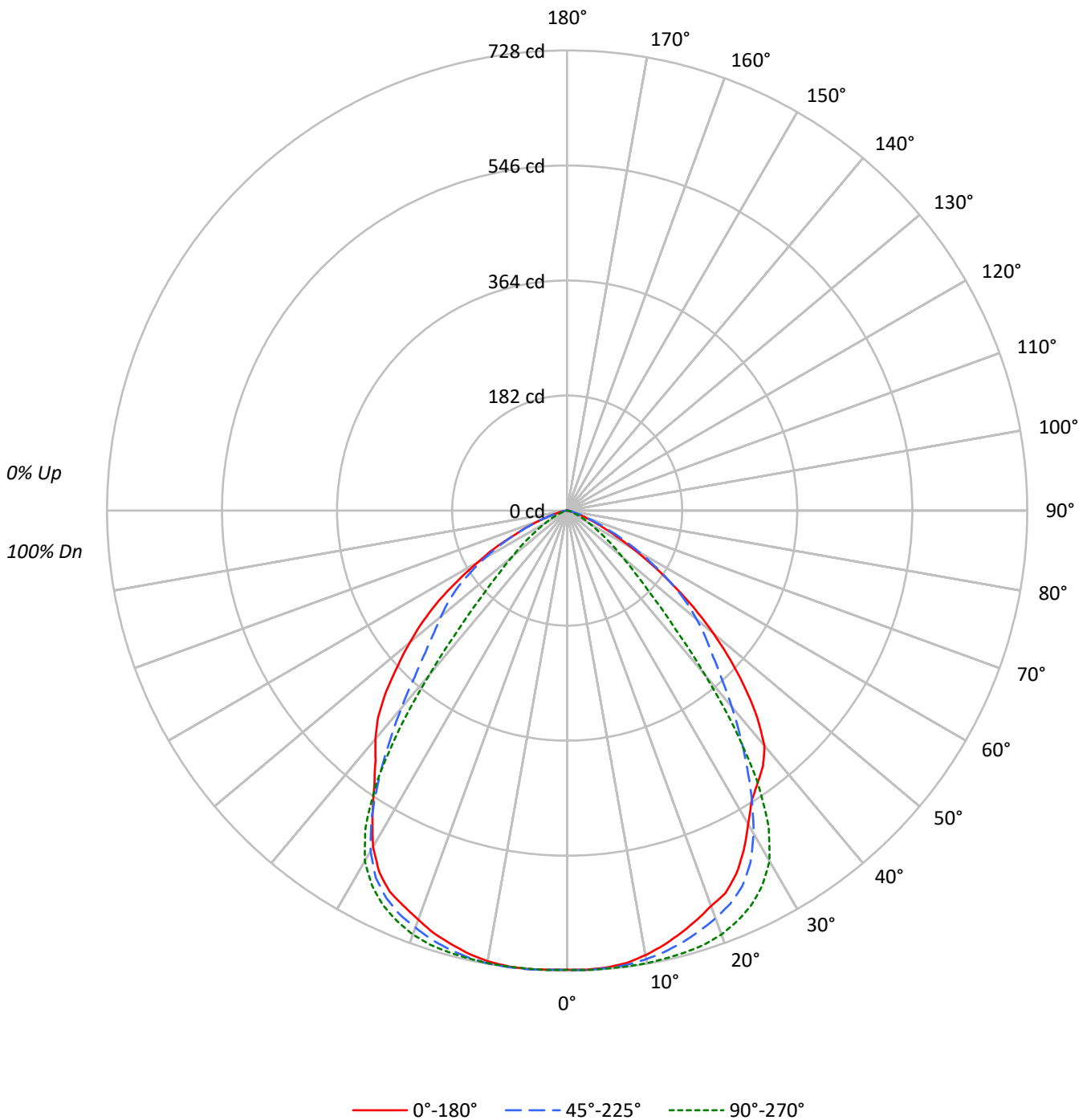
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	22403	22403	22403
5°	22454	22513	22538
10°	22360	22761	22664
15°	22111	23094	22660
20°	21845	23420	22600
25°	21561	23446	22623
30°	20399	22788	21855
35°	19790	19805	20008
40°	19543	13626	18996
45°	17413	8181	17653
50°	14478	5445	15601
55°	10860	3753	13231
60°	7358	2504	9979
65°	4436	1620	6859
70°	2461	884	4219
75°	1120	369	2180
80°	977	408	1527
85°	1097	566	1521



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	5.0
10°-20°	201.4	14.6
20°-30°	305.6	22.2
30°-40°	321.0	23.3
40°-50°	240.7	17.5
50°-60°	154.4	11.2
60°-70°	66.1	4.8
70°-80°	15.6	1.1
80°-90°	2.9	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°	576.3	41.9
0°-40°	897.3	65.2
0°-60°	1292.4	93.9
0°-90°	1377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	726	726	726	726	726	
5°	725	726	727	728	728	69
15°	693	707	723	719	710	195
25°	634	656	689	677	665	290
35°	526	496	526	520	532	330
45°	399	326	188	317	405	306
55°	202	202	70	211	246	183
65°	61	72	22	92	94	65
75°	9	11	3	19	18	14
85°	3	2	2	3	4	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°	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5
2.5°	726.9	727.7	727.3	727.3	726.9	727.3	727.3	728.1	728.1	727.3	726.9
5°	725.4	726.1	726.1	725.4	725.4	727.3	726.1	726.9	726.9	726.5	726.5
7.5°	721.9	721.9	723.4	722.2	722.2	723.4	723.0	723.8	724.6	725.0	725.0
10°	714.1	714.8	715.2	715.2	715.6	716.8	717.6	719.1	719.9	720.7	721.1
12.5°	704.3	705.5	705.9	705.5	706.6	708.2	710.2	712.1	713.3	714.8	716.0
15°	692.6	692.6	693.4	694.6	695.3	697.7	699.6	702.0	705.1	707.0	709.0
17.5°	679.7	680.5	681.7	681.7	683.2	687.1	688.3	691.8	695.3	697.3	701.2
20°	665.7	666.5	667.6	668.4	670.4	673.5	675.8	679.0	682.9	686.4	690.3
22.5°	654.8	653.2	654.0	654.8	656.7	659.5	662.2	666.1	670.0	673.5	677.4
25°	633.7	634.1	635.3	636.1	638.4	640.7	643.9	648.5	652.0	655.9	660.2
27.5°	605.3	605.6	607.6	607.6	609.5	613.4	615.4	619.3	624.0	627.9	632.9
30°	572.9	573.7	573.7	575.2	576.4	578.3	580.3	584.2	586.5	590.0	597.1
32.5°	543.2	544.0	543.6	543.2	542.1	541.7	541.3	542.1	542.9	544.0	546.7
35°	525.7	523.7	522.2	519.5	516.3	512.4	508.9	504.2	500.0	496.4	492.5
37.5°	508.9	508.5	506.2	502.3	496.1	489.0	480.8	470.7	460.6	449.6	439.1
40°	485.5	484.4	482.4	476.9	469.9	461.3	450.4	437.9	421.6	404.8	387.6
42.5°	445.7	446.1	443.8	439.5	432.9	424.7	413.4	399.7	382.2	362.3	340.1
45°	399.3	399.3	398.6	395.0	390.4	383.7	375.2	363.9	346.7	326.4	302.6
47.5°	351.0	351.4	350.2	349.4	347.5	343.2	336.9	328.4	316.3	296.8	273.0
50°	301.8	301.8	303.8	303.4	303.4	301.8	299.1	294.0	283.5	267.9	245.7
52.5°	252.7	253.5	254.7	256.2	258.2	261.3	258.2	255.8	249.2	237.1	218.0
55°	202.0	202.8	204.7	207.5	209.8	212.9	213.7	213.7	210.2	202.0	187.6
57.5°	158.7	157.6	159.1	161.5	164.6	167.7	170.0	172.8	172.4	166.9	155.2
60°	119.3	119.7	120.9	123.2	125.6	128.3	131.4	133.8	134.9	132.2	124.8
62.5°	87.0	87.0	88.5	90.9	92.0	95.9	97.9	99.1	100.2	99.8	95.2
65°	60.8	61.6	62.4	63.6	64.7	67.1	68.2	70.6	71.4	71.8	68.2
67.5°	42.9	41.7	42.5	43.3	44.5	46.0	48.4	48.4	49.5	49.5	47.2
70°	27.3	27.3	27.7	28.9	29.6	30.0	30.8	31.6	32.8	32.4	32.4
72.5°	18.3	17.9	18.3	18.7	19.1	20.3	20.3	20.7	21.5	21.8	20.3
75°	9.4	9.8	10.5	10.1	11.3	10.5	10.9	12.1	11.7	10.9	10.9
77.5°	7.8	7.8	7.8	7.4	8.2	8.2	7.8	8.6	8.2	8.2	7.8
80°	5.5	5.8	5.5	5.1	5.5	5.1	5.1	5.1	5.1	5.1	4.7
82.5°	4.3	3.5	3.9	3.5	3.9	3.9	3.5	3.1	3.1	3.5	3.1
85°	3.1	2.3	2.7	2.7	2.3	2.3	2.3	2.3	2.3	1.9	1.9
87.5°	1.9	1.2	1.2	1.2	1.6	1.6	1.6	1.2	1.6	1.6	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°	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5
2.5°	727.7	727.3	728.1	727.7	727.7	727.3	727.7	727.3	728.1	726.5	726.9
5°	727.7	726.9	727.3	727.7	728.1	727.3	727.3	727.3	728.1	727.3	727.7
7.5°	726.1	725.7	726.9	727.7	727.3	726.9	727.7	727.3	728.1	727.7	728.5
10°	723.0	723.4	724.2	725.4	725.7	726.1	726.9	726.9	728.1	726.5	727.3
12.5°	718.3	719.9	721.9	722.6	724.2	724.2	725.0	725.4	726.1	725.7	726.9
15°	712.5	714.4	716.8	718.7	720.7	721.9	723.0	723.4	724.6	723.4	723.8
17.5°	705.5	707.8	711.3	713.7	716.8	718.0	719.5	720.3	721.5	720.7	721.1
20°	695.7	698.5	702.4	705.9	707.8	710.5	712.5	713.7	714.4	713.7	714.1
22.5°	682.1	686.0	691.0	693.8	697.7	700.0	700.4	703.1	705.1	703.1	703.9
25°	666.1	670.0	673.9	679.7	683.2	686.0	688.7	689.1	691.0	690.7	690.3
27.5°	639.6	644.6	651.3	655.9	660.6	664.9	668.0	668.8	670.8	670.0	670.4
30°	603.3	608.8	615.0	622.4	629.0	633.3	637.2	640.0	641.9	640.7	640.3
32.5°	551.8	557.3	563.9	571.3	579.1	585.4	590.0	593.6	595.9	595.1	593.2
35°	492.9	494.5	498.8	504.6	511.3	517.9	522.2	526.1	528.8	529.6	529.6
37.5°	432.5	427.4	424.3	424.3	428.2	430.9	434.8	437.2	441.5	443.0	444.2
40°	374.0	362.3	351.4	343.2	337.7	337.3	337.3	338.5	342.4	347.5	352.2
42.5°	321.7	303.0	286.2	271.0	260.1	253.9	251.2	251.5	254.7	259.3	267.1
45°	280.0	256.6	235.5	217.2	202.4	192.6	188.0	187.6	189.9	195.4	204.0
47.5°	247.6	222.7	198.9	177.8	161.8	151.3	145.9	144.3	145.9	150.9	161.1
50°	220.7	195.0	170.4	148.6	131.4	120.5	115.4	113.5	115.4	119.7	129.9
52.5°	195.8	169.2	146.2	125.2	106.9	97.5	92.0	90.9	92.0	97.1	105.3
55°	166.9	144.3	121.7	100.6	84.6	75.3	71.0	69.8	71.0	75.7	84.2
57.5°	138.4	118.9	99.1	79.9	66.3	58.1	54.2	52.6	55.4	58.5	68.6
60°	111.9	96.3	79.6	62.8	51.5	44.1	40.9	40.6	41.3	45.2	52.3
62.5°	87.7	74.9	61.6	48.0	38.6	35.5	31.6	31.2	32.0	34.3	39.8
65°	63.2	55.0	44.8	35.1	27.7	23.4	21.8	22.2	23.0	24.6	29.6
67.5°	44.1	38.2	31.2	24.6	19.1	17.2	15.6	15.2	15.6	18.3	21.1
70°	29.6	26.1	21.1	18.7	13.3	10.5	10.9	9.8	11.3	11.3	13.6
72.5°	19.5	17.2	14.0	10.9	9.4	7.4	7.4	7.0	7.8	8.2	10.1
75°	10.1	7.8	7.8	5.5	3.9	1.9	3.5	3.1	2.7	3.1	3.9
77.5°	7.0	5.8	5.5	4.3	3.9	3.1	3.1	3.1	3.1	3.5	3.9
80°	4.3	4.3	3.1	2.7	2.3	1.9	2.3	2.3	2.3	2.3	2.7
82.5°	2.7	2.3	2.3	1.9	1.9	1.6	1.6	1.6	1.6	1.6	2.3
85°	2.3	1.6	1.6	1.2	1.6	2.7	1.2	1.6	1.6	1.6	1.2
87.5°	0.8	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	1.9	1.6
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5
2.5°	727.7	728.1	728.1	727.7	727.7	726.9	728.5	727.3	727.7	729.3	728.1
5°	728.5	728.9	728.9	728.5	728.5	728.5	728.9	728.9	728.5	728.1	728.9
7.5°	730.0	729.7	729.7	728.9	728.9	728.1	728.9	727.7	728.5	727.7	728.9
10°	728.1	728.5	728.1	727.7	727.7	727.3	727.3	726.1	726.5	725.4	726.1
12.5°	726.9	726.5	726.5	725.7	725.0	724.2	723.8	722.6	722.6	719.9	721.1
15°	723.8	724.2	723.0	721.5	720.7	718.7	718.0	716.4	714.8	712.9	713.3
17.5°	721.1	719.9	718.3	716.8	713.7	712.1	710.5	708.2	707.4	705.1	704.3
20°	712.9	712.1	710.2	707.4	705.5	702.0	700.4	698.1	696.1	693.8	692.6
22.5°	702.4	701.6	699.2	696.5	693.4	691.8	690.3	686.0	684.0	681.7	681.3
25°	689.1	687.9	685.6	682.5	680.9	676.6	675.1	671.9	671.2	668.8	668.4
27.5°	668.8	667.3	664.5	660.6	657.9	655.2	653.6	651.3	650.5	648.1	647.8
30°	638.4	636.4	631.0	629.4	624.7	622.0	622.0	618.9	619.3	617.7	617.7
32.5°	590.4	587.3	583.0	579.9	576.8	575.2	575.2	574.0	574.8	574.8	575.6
35°	526.9	522.6	520.2	518.3	518.3	519.8	524.5	525.7	528.0	530.0	531.5
37.5°	445.4	445.0	447.7	450.0	455.9	462.5	470.7	477.7	484.4	489.0	493.7
40°	357.2	367.0	374.8	385.7	394.7	407.5	422.3	434.4	445.7	453.9	462.5
42.5°	278.8	291.3	307.7	323.7	339.7	357.2	376.7	393.5	408.3	419.6	428.6
45°	217.2	234.4	254.3	274.5	295.2	317.1	337.3	354.5	370.1	381.8	390.8
47.5°	175.1	193.8	216.4	238.7	262.1	285.1	307.7	322.5	335.4	344.7	352.9
50°	144.7	164.6	188.4	213.7	237.1	260.1	279.6	294.0	304.6	312.8	317.8
52.5°	120.9	141.9	167.3	192.6	216.0	237.1	254.7	265.6	274.2	280.0	284.7
55°	99.8	120.1	143.9	167.7	190.7	210.6	225.0	233.2	239.8	243.3	246.1
57.5°	81.5	100.2	122.1	143.9	163.8	180.2	191.5	199.7	202.8	205.5	205.1
60°	64.0	81.5	101.4	120.1	137.3	150.5	158.7	163.4	165.7	166.9	166.1
62.5°	50.3	66.3	81.5	97.9	110.4	121.7	129.5	129.5	130.6	131.0	132.2
65°	37.4	49.5	62.8	74.9	85.0	92.4	96.7	97.9	99.4	99.1	98.3
67.5°	27.7	36.7	46.4	55.4	62.4	67.1	70.2	72.9	72.5	71.8	71.4
70°	19.1	25.0	33.5	39.0	44.1	48.8	49.5	49.9	50.3	50.7	49.9
72.5°	13.3	17.5	22.2	26.9	30.0	32.0	33.9	34.3	34.3	34.3	33.9
75°	6.6	9.0	13.3	15.2	17.9	18.7	20.3	20.3	21.5	19.9	19.5
77.5°	5.8	7.0	9.4	10.9	12.1	13.3	13.6	14.8	14.4	13.6	14.0
80°	3.5	4.3	5.8	6.6	8.2	8.6	9.0	9.4	9.0	9.4	9.4
82.5°	2.7	3.1	3.9	3.9	5.1	5.1	5.5	5.5	5.8	5.8	5.8
85°	1.6	2.7	2.3	4.7	3.1	3.1	3.9	4.7	3.9	3.9	4.7
87.5°	1.6	1.6	1.2	1.6	1.6	1.6	1.9	2.3	2.3	2.7	2.3
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°	726.5	726.5	726.5	726.5
2.5°	727.7	728.5	727.3	726.9
5°	728.9	728.9	728.1	728.1
7.5°	728.9	728.9	727.7	726.9
10°	725.7	725.7	724.6	723.8
12.5°	719.9	719.9	719.5	718.3
15°	712.5	712.5	710.9	709.8
17.5°	702.4	703.1	701.2	701.2
20°	691.4	691.0	689.5	688.7
22.5°	680.1	679.3	679.0	676.6
25°	668.0	667.3	666.1	664.9
27.5°	647.4	647.0	645.8	644.2
30°	615.8	615.4	613.8	613.8
32.5°	574.8	574.4	572.9	573.3
35°	532.3	533.9	533.1	531.5
37.5°	496.8	498.0	498.8	498.0
40°	467.2	470.7	471.1	471.9
42.5°	435.6	440.3	441.9	442.6
45°	397.8	402.1	405.6	404.8
47.5°	359.2	362.3	365.4	363.1
50°	322.1	324.1	325.2	325.2
52.5°	287.0	287.0	286.6	287.0
55°	246.9	246.9	245.3	246.1
57.5°	204.7	205.5	204.3	202.4
60°	165.7	163.8	163.0	161.8
62.5°	129.1	129.1	126.4	129.9
65°	96.7	95.5	94.4	94.0
67.5°	70.2	69.8	68.6	68.2
70°	49.5	48.0	47.6	46.8
72.5°	33.1	33.1	32.4	32.4
75°	20.3	18.3	17.9	18.3
77.5°	14.0	13.6	13.6	13.3
80°	9.4	9.0	9.8	8.6
82.5°	5.8	6.2	5.8	6.2
85°	3.9	4.7	4.3	4.3
87.5°	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0

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