

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: P246150

Luminaire Tested: **LSR8B10D010 EC8B10940 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246150  
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 EC8B10940 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 911.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 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

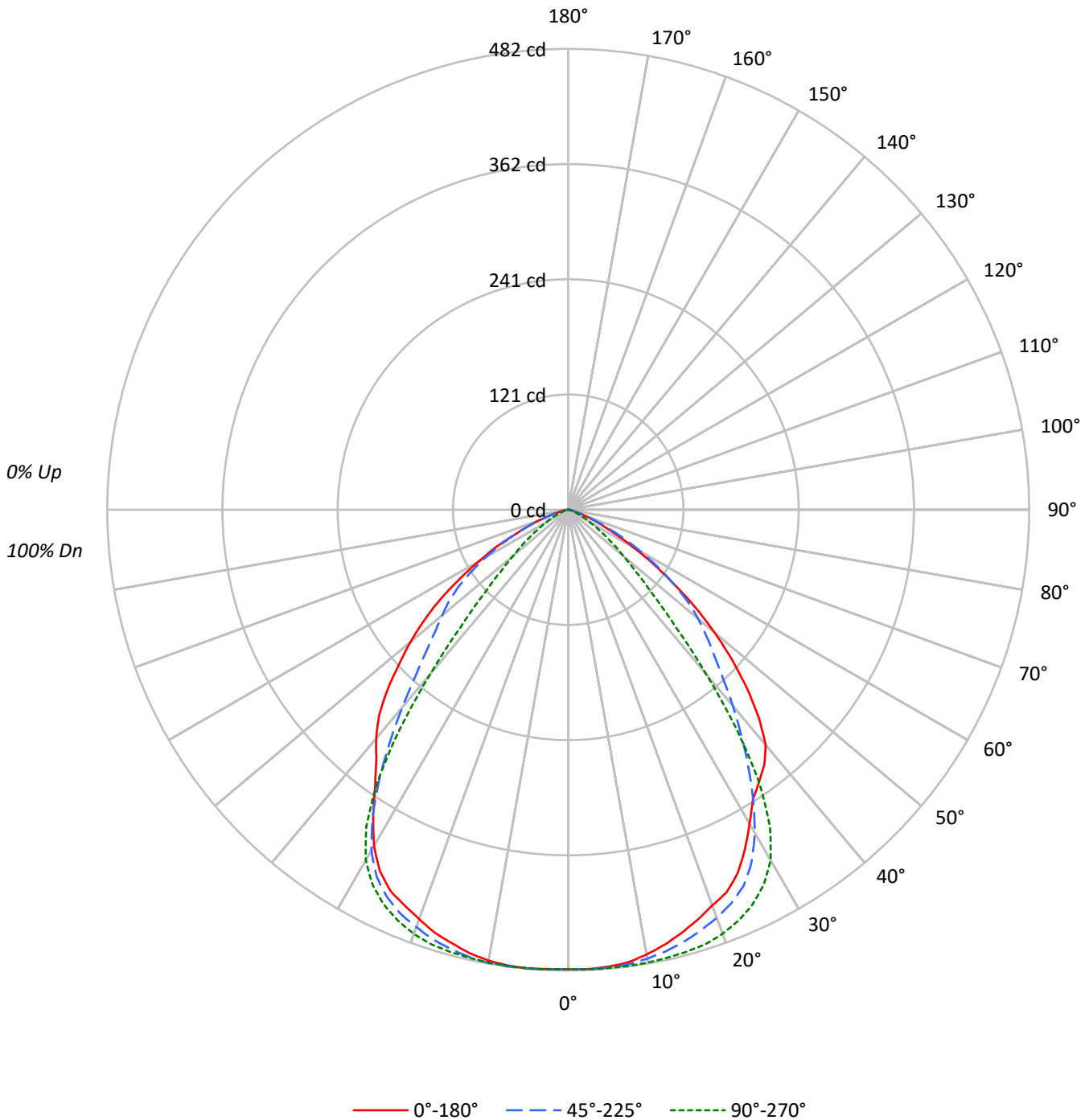
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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°	14823	14823	14823
5°	14855	14895	14911
10°	14792	15058	14995
15°	14628	15279	14992
20°	14452	15492	14951
25°	14266	15512	14967
30°	13495	15076	14460
35°	13093	13100	13239
40°	12930	9013	12567
45°	11522	5412	11679
50°	9580	3603	10324
55°	7183	2484	8752
60°	4866	1653	6605
65°	2940	1073	4538
70°	1632	586	2795
75°	739	250	1442
80°	639	266	1012
85°	743	354	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	5.0
10°-20°	133.2	14.6
20°-30°	202.2	22.2
30°-40°	212.4	23.3
40°-50°	159.2	17.5
50°-60°	102.2	11.2
60°-70°	43.7	4.8
70°-80°	10.3	1.1
80°-90°	1.9	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°	381.3	41.9
0°-40°	593.7	65.2
0°-60°	855.1	93.9
0°-90°	911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	481	481	481	481	481	
5°	480	481	481	482	482	46
15°	458	468	479	476	470	129
25°	419	434	456	448	440	192
35°	348	328	348	344	352	218
45°	264	216	124	210	268	202
55°	134	134	46	139	163	121
65°	40	48	15	61	62	43
75°	6	7	2	12	12	9
85°	2	1	1	2	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°	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7
2.5°	480.9	481.4	481.2	481.2	480.9	481.2	481.2	481.7	481.7	481.2	480.9
5°	479.9	480.4	480.4	479.9	479.9	481.2	480.4	480.9	480.9	480.7	480.7
7.5°	477.6	477.6	478.6	477.8	477.8	478.6	478.3	478.9	479.4	479.6	479.6
10°	472.4	472.9	473.2	473.2	473.4	474.2	474.7	475.8	476.3	476.8	477.1
12.5°	466.0	466.7	467.0	466.7	467.5	468.5	469.8	471.1	471.9	472.9	473.7
15°	458.2	458.2	458.7	459.5	460.0	461.6	462.9	464.4	466.5	467.8	469.1
17.5°	449.7	450.2	451.0	451.0	452.0	454.6	455.4	457.7	460.0	461.3	463.9
20°	440.4	440.9	441.7	442.2	443.5	445.6	447.1	449.2	451.8	454.1	456.7
22.5°	433.2	432.2	432.7	433.2	434.5	436.3	438.1	440.7	443.3	445.6	448.2
25°	419.3	419.5	420.3	420.8	422.4	423.9	426.0	429.1	431.4	434.0	436.8
27.5°	400.4	400.7	402.0	402.0	403.3	405.8	407.1	409.7	412.8	415.4	418.7
30°	379.0	379.5	379.5	380.6	381.3	382.6	383.9	386.5	388.0	390.4	395.0
32.5°	359.4	359.9	359.7	359.4	358.6	358.4	358.1	358.6	359.1	359.9	361.7
35°	347.8	346.5	345.5	343.7	341.6	339.0	336.7	333.6	330.8	328.4	325.9
37.5°	336.7	336.4	334.9	332.3	328.2	323.5	318.1	311.4	304.7	297.5	290.5
40°	321.2	320.4	319.2	315.5	310.9	305.2	298.0	289.7	278.9	267.8	256.5
42.5°	294.9	295.2	293.6	290.8	286.4	281.0	273.5	264.5	252.8	239.7	225.0
45°	264.2	264.2	263.7	261.4	258.3	253.9	248.2	240.7	229.4	215.9	200.2
47.5°	232.2	232.5	231.7	231.2	229.9	227.0	222.9	217.2	209.2	196.3	180.6
50°	199.7	199.7	201.0	200.7	200.7	199.7	197.9	194.5	187.6	177.2	162.5
52.5°	167.2	167.7	168.5	169.5	170.8	172.9	170.8	169.3	164.9	156.9	144.2
55°	133.6	134.2	135.5	137.3	138.8	140.9	141.4	141.4	139.1	133.6	124.1
57.5°	105.0	104.2	105.3	106.8	108.9	110.9	112.5	114.3	114.0	110.4	102.7
60°	78.9	79.2	80.0	81.5	83.1	84.9	86.9	88.5	89.3	87.5	82.6
62.5°	57.5	57.5	58.6	60.1	60.9	63.5	64.8	65.5	66.3	66.0	63.0
65°	40.3	40.8	41.3	42.1	42.8	44.4	45.2	46.7	47.2	47.5	45.2
67.5°	28.4	27.6	28.1	28.6	29.4	30.4	32.0	32.0	32.8	32.8	31.2
70°	18.1	18.1	18.3	19.1	19.6	19.9	20.4	20.9	21.7	21.4	21.4
72.5°	12.1	11.9	12.1	12.4	12.6	13.4	13.4	13.7	14.2	14.5	13.4
75°	6.2	6.5	7.0	6.7	7.5	7.0	7.2	8.0	7.7	7.2	7.2
77.5°	5.2	5.2	5.2	4.9	5.4	5.4	5.2	5.7	5.4	5.4	5.2
80°	3.6	3.9	3.6	3.4	3.6	3.4	3.4	3.4	3.4	3.4	3.1
82.5°	2.8	2.3	2.6	2.3	2.6	2.6	2.3	2.1	2.1	2.3	2.1
85°	2.1	1.5	1.8	1.8	1.5	1.5	1.5	1.5	1.5	1.3	1.3
87.5°	1.3	0.8	0.8	0.8	1.0	1.0	1.0	0.8	1.0	1.0	0.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7
2.5°	481.4	481.2	481.7	481.4	481.4	481.2	481.4	481.2	481.7	480.7	480.9
5°	481.4	480.9	481.2	481.4	481.7	481.2	481.2	481.2	481.7	481.2	481.4
7.5°	480.4	480.1	480.9	481.4	481.2	480.9	481.4	481.2	481.7	481.4	481.9
10°	478.3	478.6	479.1	479.9	480.1	480.4	480.9	480.9	481.7	480.7	481.2
12.5°	475.2	476.3	477.6	478.1	479.1	479.1	479.6	479.9	480.4	480.1	480.9
15°	471.4	472.7	474.2	475.5	476.8	477.6	478.3	478.6	479.4	478.6	478.9
17.5°	466.7	468.3	470.6	472.1	474.2	475.0	476.0	476.5	477.3	476.8	477.1
20°	460.3	462.1	464.7	467.0	468.3	470.1	471.4	472.1	472.7	472.1	472.4
22.5°	451.2	453.8	457.2	459.0	461.6	463.1	463.4	465.2	466.5	465.2	465.7
25°	440.7	443.3	445.8	449.7	452.0	453.8	455.6	455.9	457.2	456.9	456.7
27.5°	423.1	426.5	430.9	434.0	437.1	439.9	442.0	442.5	443.8	443.3	443.5
30°	399.1	402.7	406.9	411.8	416.2	419.0	421.6	423.4	424.7	423.9	423.6
32.5°	365.1	368.7	373.1	378.0	383.1	387.3	390.4	392.7	394.2	393.7	392.4
35°	326.1	327.1	330.0	333.9	338.2	342.6	345.5	348.0	349.9	350.4	350.4
37.5°	286.1	282.8	280.7	280.7	283.3	285.1	287.7	289.2	292.1	293.1	293.9
40°	247.4	239.7	232.5	227.0	223.4	223.2	223.2	223.9	226.5	229.9	233.0
42.5°	212.9	200.5	189.4	179.3	172.1	168.0	166.2	166.4	168.5	171.6	176.7
45°	185.2	169.8	155.8	143.7	133.9	127.5	124.4	124.1	125.6	129.3	134.9
47.5°	163.8	147.3	131.6	117.6	107.1	100.1	96.5	95.5	96.5	99.8	106.6
50°	146.0	129.0	112.7	98.3	86.9	79.7	76.4	75.1	76.4	79.2	85.9
52.5°	129.5	112.0	96.8	82.8	70.7	64.5	60.9	60.1	60.9	64.2	69.7
55°	110.4	95.5	80.5	66.6	56.0	49.8	47.0	46.2	47.0	50.1	55.7
57.5°	91.6	78.7	65.5	52.9	43.9	38.4	35.9	34.8	36.6	38.7	45.4
60°	74.0	63.7	52.6	41.5	34.1	29.2	27.1	26.8	27.3	29.9	34.6
62.5°	58.1	49.5	40.8	31.7	25.5	23.5	20.9	20.6	21.2	22.7	26.3
65°	41.8	36.4	29.7	23.2	18.3	15.5	14.5	14.7	15.2	16.3	19.6
67.5°	29.2	25.3	20.6	16.3	12.6	11.4	10.3	10.1	10.3	12.1	13.9
70°	19.6	17.3	13.9	12.4	8.8	7.0	7.2	6.5	7.5	7.5	9.0
72.5°	12.9	11.4	9.3	7.2	6.2	4.9	4.9	4.6	5.2	5.4	6.7
75°	6.7	5.2	5.2	3.6	2.6	1.3	2.3	2.1	1.8	2.1	2.6
77.5°	4.6	3.9	3.6	2.8	2.6	2.1	2.1	2.1	2.1	2.3	2.6
80°	2.8	2.8	2.1	1.8	1.5	1.3	1.5	1.5	1.5	1.5	1.8
82.5°	1.8	1.5	1.5	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.5
85°	1.5	1.0	1.0	0.8	1.0	1.8	0.8	1.0	1.0	1.0	0.8
87.5°	0.5	0.8	0.8	0.8	0.5	0.3	0.5	0.8	0.8	1.3	1.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7
2.5°	481.4	481.7	481.7	481.4	481.4	480.9	481.9	481.2	481.4	482.5	481.7
5°	481.9	482.2	482.2	481.9	481.9	481.9	482.2	482.2	481.9	481.7	482.2
7.5°	483.0	482.7	482.7	482.2	482.2	481.7	482.2	481.4	481.9	481.4	482.2
10°	481.7	481.9	481.7	481.4	481.4	481.2	481.2	480.4	480.7	479.9	480.4
12.5°	480.9	480.7	480.7	480.1	479.6	479.1	478.9	478.1	478.1	476.3	477.1
15°	478.9	479.1	478.3	477.3	476.8	475.5	475.0	474.0	472.9	471.6	471.9
17.5°	477.1	476.3	475.2	474.2	472.1	471.1	470.1	468.5	468.0	466.5	466.0
20°	471.6	471.1	469.8	468.0	466.7	464.4	463.4	461.8	460.5	459.0	458.2
22.5°	464.7	464.1	462.6	460.8	458.7	457.7	456.7	453.8	452.5	451.0	450.7
25°	455.9	455.1	453.6	451.5	450.5	447.6	446.6	444.5	444.0	442.5	442.2
27.5°	442.5	441.4	439.6	437.1	435.3	433.4	432.4	430.9	430.4	428.8	428.5
30°	422.4	421.1	417.5	416.4	413.3	411.5	411.5	409.5	409.7	408.7	408.7
32.5°	390.6	388.6	385.7	383.7	381.6	380.6	380.6	379.8	380.3	380.3	380.8
35°	348.6	345.7	344.2	342.9	342.9	343.9	347.0	347.8	349.3	350.6	351.7
37.5°	294.6	294.4	296.2	297.7	301.6	306.0	311.4	316.1	320.4	323.5	326.6
40°	236.3	242.8	247.9	255.2	261.1	269.6	279.4	287.4	294.9	300.3	306.0
42.5°	184.5	192.7	203.6	214.1	224.7	236.3	249.2	260.3	270.1	277.6	283.5
45°	143.7	155.1	168.2	181.6	195.3	209.8	223.2	234.5	244.8	252.6	258.5
47.5°	115.8	128.2	143.2	157.9	173.4	188.6	203.6	213.4	221.9	228.1	233.5
50°	95.7	108.9	124.6	141.4	156.9	172.1	185.0	194.5	201.5	206.9	210.3
52.5°	80.0	93.9	110.7	127.5	142.9	156.9	168.5	175.7	181.4	185.2	188.3
55°	66.0	79.5	95.2	110.9	126.2	139.3	148.9	154.3	158.7	161.0	162.8
57.5°	53.9	66.3	80.8	95.2	108.4	119.2	126.7	132.1	134.2	136.0	135.7
60°	42.3	53.9	67.1	79.5	90.8	99.6	105.0	108.1	109.6	110.4	109.9
62.5°	33.3	43.9	53.9	64.8	73.0	80.5	85.7	85.7	86.4	86.7	87.5
65°	24.8	32.8	41.5	49.5	56.2	61.1	64.0	64.8	65.8	65.5	65.0
67.5°	18.3	24.3	30.7	36.6	41.3	44.4	46.4	48.2	48.0	47.5	47.2
70°	12.6	16.5	22.2	25.8	29.2	32.3	32.8	33.0	33.3	33.5	33.0
72.5°	8.8	11.6	14.7	17.8	19.9	21.2	22.4	22.7	22.7	22.7	22.4
75°	4.4	5.9	8.8	10.1	11.9	12.4	13.4	13.4	14.2	13.2	12.9
77.5°	3.9	4.6	6.2	7.2	8.0	8.8	9.0	9.8	9.5	9.0	9.3
80°	2.3	2.8	3.9	4.4	5.4	5.7	5.9	6.2	5.9	6.2	6.2
82.5°	1.8	2.1	2.6	2.6	3.4	3.4	3.6	3.6	3.9	3.9	3.9
85°	1.0	1.8	1.5	3.1	2.1	2.1	2.6	3.1	2.6	2.6	3.1
87.5°	1.0	1.0	0.8	1.0	1.0	1.0	1.3	1.5	1.5	1.8	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°	480.7	480.7	480.7	480.7
2.5°	481.4	481.9	481.2	480.9
5°	482.2	482.2	481.7	481.7
7.5°	482.2	482.2	481.4	480.9
10°	480.1	480.1	479.4	478.9
12.5°	476.3	476.3	476.0	475.2
15°	471.4	471.4	470.3	469.6
17.5°	464.7	465.2	463.9	463.9
20°	457.4	457.2	456.2	455.6
22.5°	450.0	449.4	449.2	447.6
25°	442.0	441.4	440.7	439.9
27.5°	428.3	428.0	427.3	426.2
30°	407.4	407.1	406.1	406.1
32.5°	380.3	380.0	379.0	379.3
35°	352.2	353.2	352.7	351.7
37.5°	328.7	329.5	330.0	329.5
40°	309.1	311.4	311.7	312.2
42.5°	288.2	291.3	292.3	292.8
45°	263.2	266.0	268.3	267.8
47.5°	237.6	239.7	241.7	240.2
50°	213.1	214.4	215.2	215.2
52.5°	189.9	189.9	189.6	189.9
55°	163.3	163.3	162.3	162.8
57.5°	135.5	136.0	135.2	133.9
60°	109.6	108.4	107.8	107.1
62.5°	85.4	85.4	83.6	85.9
65°	64.0	63.2	62.4	62.2
67.5°	46.4	46.2	45.4	45.2
70°	32.8	31.7	31.5	31.0
72.5°	21.9	21.9	21.4	21.4
75°	13.4	12.1	11.9	12.1
77.5°	9.3	9.0	9.0	8.8
80°	6.2	5.9	6.5	5.7
82.5°	3.9	4.1	3.9	4.1
85°	2.6	3.1	2.8	2.8
87.5°	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)