

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: P244602

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244602  
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 EC8B10835 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1156.0 lumens  
Efficiency: N/A  
Efficacy: 113.3 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

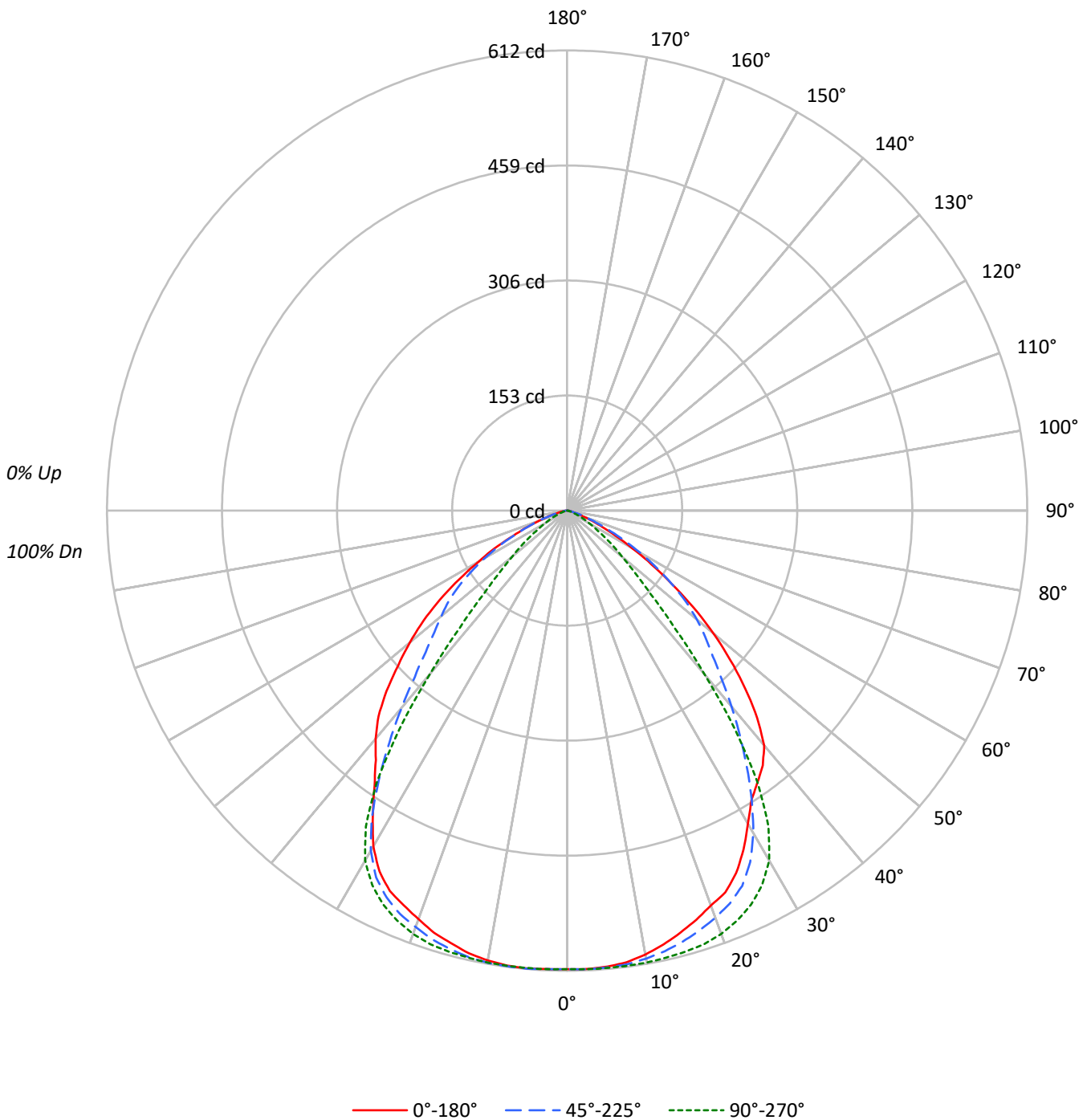
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	18807	18807	18807
5°	18848	18901	18919
10°	18772	19110	19025
15°	18561	19388	19024
20°	18340	19660	18974
25°	18101	19683	18992
30°	17123	19128	18348
35°	16612	16624	16797
40°	16408	11440	15945
45°	14618	6868	14818
50°	12156	4572	13097
55°	9118	3150	11107
60°	6180	2097	8381
65°	3729	1364	5757
70°	2065	739	3543
75°	941	310	1835
80°	817	355	1279
85°	920	460	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	5.0
10°-20°	169.0	14.6
20°-30°	256.6	22.2
30°-40°	269.5	23.3
40°-50°	202.0	17.5
50°-60°	129.6	11.2
60°-70°	55.5	4.8
70°-80°	13.1	1.1
80°-90°	2.4	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°	483.8	41.9
0°-40°	753.3	65.2
0°-60°	1085.0	93.9
0°-90°	1156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	610	610	610	610	610	
5°	609	610	611	612	611	58
15°	581	594	607	603	596	164
25°	532	551	578	568	558	243
35°	441	417	442	436	446	277
45°	335	274	158	266	340	257
55°	170	170	59	177	207	154
65°	51	60	19	78	79	55
75°	8	9	3	16	15	11
85°	3	2	1	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°	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9
2.5°	610.3	610.9	610.6	610.6	610.3	610.6	610.6	611.2	611.2	610.6	610.3
5°	608.9	609.6	609.6	608.9	608.9	610.6	609.6	610.3	610.3	609.9	609.9
7.5°	606.0	606.0	607.3	606.3	606.3	607.3	607.0	607.6	608.3	608.6	608.6
10°	599.5	600.1	600.4	600.4	600.8	601.7	602.4	603.7	604.4	605.0	605.3
12.5°	591.3	592.2	592.6	592.2	593.2	594.5	596.2	597.8	598.8	600.1	601.1
15°	581.4	581.4	582.1	583.1	583.7	585.7	587.3	589.3	591.9	593.6	595.2
17.5°	570.6	571.3	572.3	572.3	573.6	576.9	577.8	580.8	583.7	585.4	588.7
20°	558.9	559.5	560.5	561.2	562.8	565.4	567.4	570.0	573.3	576.2	579.5
22.5°	549.7	548.4	549.0	549.7	551.3	553.6	555.9	559.2	562.5	565.4	568.7
25°	532.0	532.3	533.3	534.0	535.9	537.9	540.5	544.4	547.4	550.7	554.3
27.5°	508.1	508.4	510.1	510.1	511.7	515.0	516.6	519.9	523.8	527.1	531.4
30°	480.9	481.6	481.6	482.9	483.9	485.5	487.2	490.4	492.4	495.3	501.2
32.5°	456.1	456.7	456.4	456.1	455.1	454.7	454.4	455.1	455.7	456.7	459.0
35°	441.3	439.7	438.4	436.1	433.5	430.2	427.2	423.3	419.7	416.8	413.5
37.5°	427.2	426.9	425.0	421.7	416.4	410.5	403.7	395.2	386.6	377.5	368.6
40°	407.6	406.6	405.0	400.4	394.5	387.3	378.1	367.7	353.9	339.8	325.4
42.5°	374.2	374.5	372.6	369.0	363.4	356.5	347.0	335.6	320.8	304.1	285.5
45°	335.2	335.2	334.6	331.6	327.7	322.2	314.9	305.5	291.1	274.0	254.1
47.5°	294.7	295.0	294.0	293.3	291.7	288.1	282.9	275.7	265.5	249.1	229.2
50°	253.4	253.4	255.0	254.7	254.7	253.4	251.1	246.9	238.0	224.9	206.3
52.5°	212.1	212.8	213.8	215.1	216.7	219.3	216.7	214.8	209.2	199.1	183.0
55°	169.6	170.2	171.9	174.2	176.1	178.8	179.4	179.4	176.5	169.6	157.5
57.5°	133.3	132.3	133.6	135.5	138.2	140.8	142.7	145.0	144.7	140.1	130.3
60°	100.2	100.5	101.5	103.5	105.4	107.7	110.3	112.3	113.3	111.0	104.8
62.5°	73.0	73.0	74.3	76.3	77.3	80.5	82.2	83.2	84.1	83.8	79.9
65°	51.1	51.7	52.4	53.4	54.3	56.3	57.3	59.3	59.9	60.2	57.3
67.5°	36.0	35.0	35.7	36.3	37.3	38.6	40.6	40.6	41.6	41.6	39.6
70°	22.9	22.9	23.2	24.2	24.9	25.2	25.9	26.5	27.5	27.2	27.2
72.5°	15.4	15.1	15.4	15.7	16.0	17.0	17.0	17.4	18.0	18.3	17.0
75°	7.9	8.2	8.8	8.5	9.5	8.8	9.2	10.1	9.8	9.2	9.2
77.5°	6.5	6.5	6.5	6.2	6.9	6.9	6.5	7.2	6.9	6.9	6.5
80°	4.6	4.9	4.6	4.3	4.6	4.3	4.3	4.3	4.3	4.3	3.9
82.5°	3.6	2.9	3.3	2.9	3.3	3.3	2.9	2.6	2.6	2.9	2.6
85°	2.6	2.0	2.3	2.3	2.0	2.0	2.0	2.0	2.0	1.6	1.6
87.5°	1.6	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	0.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9
2.5°	610.9	610.6	611.2	610.9	610.9	610.6	610.9	610.6	611.2	609.9	610.3
5°	610.9	610.3	610.6	610.9	611.2	610.6	610.6	610.6	611.2	610.6	610.9
7.5°	609.6	609.3	610.3	610.9	610.6	610.3	610.9	610.6	611.2	610.9	611.6
10°	607.0	607.3	608.0	608.9	609.3	609.6	610.3	610.3	611.2	609.9	610.6
12.5°	603.1	604.4	606.0	606.7	608.0	608.0	608.6	608.9	609.6	609.3	610.3
15°	598.1	599.8	601.7	603.4	605.0	606.0	607.0	607.3	608.3	607.3	607.6
17.5°	592.2	594.2	597.2	599.1	601.7	602.7	604.0	604.7	605.7	605.0	605.3
20°	584.1	586.4	589.6	592.6	594.2	596.5	598.1	599.1	599.8	599.1	599.5
22.5°	572.6	575.9	580.1	582.4	585.7	587.7	588.0	590.3	591.9	590.3	590.9
25°	559.2	562.5	565.7	570.6	573.6	575.9	578.2	578.5	580.1	579.8	579.5
27.5°	536.9	541.2	546.7	550.7	554.6	558.2	560.8	561.5	563.1	562.5	562.8
30°	506.5	511.1	516.3	522.5	528.1	531.7	535.0	537.2	538.9	537.9	537.6
32.5°	463.3	467.8	473.4	479.6	486.2	491.4	495.3	498.3	500.3	499.6	498.0
35°	413.8	415.1	418.7	423.6	429.2	434.8	438.4	441.6	443.9	444.6	444.6
37.5°	363.1	358.8	356.2	356.2	359.5	361.8	365.0	367.0	370.6	371.9	372.9
40°	314.0	304.1	295.0	288.1	283.5	283.2	283.2	284.2	287.4	291.7	295.6
42.5°	270.1	254.4	240.3	227.5	218.4	213.1	210.8	211.2	213.8	217.7	224.3
45°	235.1	215.4	197.7	182.4	169.9	161.7	157.8	157.5	159.4	164.0	171.2
47.5°	207.9	186.9	167.0	149.3	135.9	127.0	122.4	121.1	122.4	126.7	135.2
50°	185.3	163.7	143.1	124.7	110.3	101.2	96.9	95.3	96.9	100.5	109.0
52.5°	164.3	142.1	122.8	105.1	89.7	81.8	77.3	76.3	77.3	81.5	88.4
55°	140.1	121.1	102.1	84.5	71.0	63.2	59.6	58.6	59.6	63.5	70.7
57.5°	116.2	99.9	83.2	67.1	55.7	48.8	45.5	44.2	46.5	49.1	57.6
60°	94.0	80.9	66.8	52.7	43.2	37.0	34.4	34.0	34.7	38.0	43.9
62.5°	73.7	62.9	51.7	40.3	32.4	29.8	26.5	26.2	26.8	28.8	33.4
65°	53.0	46.2	37.7	29.5	23.2	19.6	18.3	18.7	19.3	20.6	24.9
67.5°	37.0	32.1	26.2	20.6	16.0	14.4	13.1	12.8	13.1	15.4	17.7
70°	24.9	21.9	17.7	15.7	11.1	8.8	9.2	8.2	9.5	9.5	11.5
72.5°	16.4	14.4	11.8	9.2	7.9	6.2	6.2	5.9	6.5	6.9	8.5
75°	8.5	6.5	6.5	4.6	3.3	1.6	2.9	2.6	2.3	2.6	3.3
77.5°	5.9	4.9	4.6	3.6	3.3	2.6	2.6	2.6	2.6	2.9	3.3
80°	3.6	3.6	2.6	2.3	2.0	1.6	2.0	2.0	2.0	2.0	2.3
82.5°	2.3	2.0	2.0	1.6	1.6	1.3	1.3	1.3	1.3	1.3	2.0
85°	2.0	1.3	1.3	1.0	1.3	2.3	1.0	1.3	1.3	1.3	1.0
87.5°	0.7	1.0	1.0	1.0	0.7	0.3	0.7	1.0	1.0	1.6	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9
2.5°	610.9	611.2	611.2	610.9	610.9	610.3	611.6	610.6	610.9	612.2	611.2
5°	611.6	611.9	611.9	611.6	611.6	611.6	611.9	611.9	611.6	611.2	611.9
7.5°	612.9	612.5	612.5	611.9	611.9	611.2	611.9	610.9	611.6	610.9	611.9
10°	611.2	611.6	611.2	610.9	610.9	610.6	610.6	609.6	609.9	608.9	609.6
12.5°	610.3	609.9	609.9	609.3	608.6	608.0	607.6	606.7	606.7	604.4	605.3
15°	607.6	608.0	607.0	605.7	605.0	603.4	602.7	601.4	600.1	598.5	598.8
17.5°	605.3	604.4	603.1	601.7	599.1	597.8	596.5	594.5	593.9	591.9	591.3
20°	598.5	597.8	596.2	593.9	592.2	589.3	588.0	586.0	584.4	582.4	581.4
22.5°	589.6	589.0	587.0	584.7	582.1	580.8	579.5	575.9	574.2	572.3	571.9
25°	578.5	577.5	575.6	572.9	571.6	568.0	566.7	564.1	563.4	561.5	561.2
27.5°	561.5	560.2	557.9	554.6	552.3	550.0	548.7	546.7	546.1	544.1	543.8
30°	535.9	534.3	529.7	528.4	524.5	522.2	522.2	519.6	519.9	518.6	518.6
32.5°	495.7	493.1	489.4	486.8	484.2	482.9	482.9	481.9	482.6	482.6	483.2
35°	442.3	438.7	436.7	435.1	435.1	436.4	440.3	441.3	443.3	444.9	446.2
37.5°	373.9	373.6	375.8	377.8	382.7	388.3	395.2	401.1	406.6	410.5	414.5
40°	299.9	308.1	314.6	323.8	331.3	342.1	354.6	364.7	374.2	381.1	388.3
42.5°	234.1	244.6	258.3	271.7	285.2	299.9	316.3	330.3	342.8	352.3	359.8
45°	182.4	196.8	213.5	230.5	247.8	266.2	283.2	297.6	310.7	320.5	328.0
47.5°	147.0	162.7	181.7	200.4	220.0	239.3	258.3	270.8	281.6	289.4	296.3
50°	121.5	138.2	158.1	179.4	199.1	218.4	234.7	246.9	255.7	262.6	266.8
52.5°	101.5	119.2	140.5	161.7	181.4	199.1	213.8	223.0	230.2	235.1	239.0
55°	83.8	100.8	120.8	140.8	160.1	176.8	188.9	195.8	201.3	204.3	206.6
57.5°	68.4	84.1	102.5	120.8	137.5	151.3	160.8	167.6	170.2	172.5	172.2
60°	53.7	68.4	85.1	100.8	115.2	126.4	133.3	137.2	139.1	140.1	139.5
62.5°	42.2	55.7	68.4	82.2	92.7	102.1	108.7	108.7	109.7	110.0	111.0
65°	31.4	41.6	52.7	62.9	71.4	77.6	81.2	82.2	83.5	83.2	82.5
67.5°	23.2	30.8	39.0	46.5	52.4	56.3	58.9	61.2	60.9	60.2	59.9
70°	16.0	21.0	28.2	32.7	37.0	40.9	41.6	41.9	42.2	42.6	41.9
72.5°	11.1	14.7	18.7	22.6	25.2	26.8	28.5	28.8	28.8	28.8	28.5
75°	5.6	7.5	11.1	12.8	15.1	15.7	17.0	17.0	18.0	16.7	16.4
77.5°	4.9	5.9	7.9	9.2	10.1	11.1	11.5	12.4	12.1	11.5	11.8
80°	2.9	3.6	4.9	5.6	6.9	7.2	7.5	7.9	7.5	7.9	7.9
82.5°	2.3	2.6	3.3	3.3	4.3	4.3	4.6	4.6	4.9	4.9	4.9
85°	1.3	2.3	2.0	3.9	2.6	2.6	3.3	3.9	3.3	3.3	3.9
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	2.0	2.0	2.3	2.0
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):**

	165°	170°	175°	180°
0°	609.9	609.9	609.9	609.9
2.5°	610.9	611.6	610.6	610.3
5°	611.9	611.9	611.2	611.2
7.5°	611.9	611.9	610.9	610.3
10°	609.3	609.3	608.3	607.6
12.5°	604.4	604.4	604.0	603.1
15°	598.1	598.1	596.8	595.9
17.5°	589.6	590.3	588.7	588.7
20°	580.5	580.1	578.8	578.2
22.5°	571.0	570.3	570.0	568.0
25°	560.8	560.2	559.2	558.2
27.5°	543.5	543.1	542.2	540.9
30°	516.9	516.6	515.3	515.3
32.5°	482.6	482.2	480.9	481.3
35°	446.9	448.2	447.5	446.2
37.5°	417.1	418.1	418.7	418.1
40°	392.2	395.2	395.5	396.1
42.5°	365.7	369.6	370.9	371.6
45°	333.9	337.5	340.5	339.8
47.5°	301.5	304.1	306.8	304.8
50°	270.4	272.1	273.0	273.0
52.5°	241.0	241.0	240.6	241.0
55°	207.2	207.2	205.9	206.6
57.5°	171.9	172.5	171.5	169.9
60°	139.1	137.5	136.8	135.9
62.5°	108.4	108.4	106.1	109.0
65°	81.2	80.2	79.2	78.9
67.5°	58.9	58.6	57.6	57.3
70°	41.6	40.3	39.9	39.3
72.5°	27.8	27.8	27.2	27.2
75°	17.0	15.4	15.1	15.4
77.5°	11.8	11.5	11.5	11.1
80°	7.9	7.5	8.2	7.2
82.5°	4.9	5.2	4.9	5.2
85°	3.3	3.9	3.6	3.6
87.5°	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)