

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: P245466

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245466  
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 EC8B10835 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1165.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

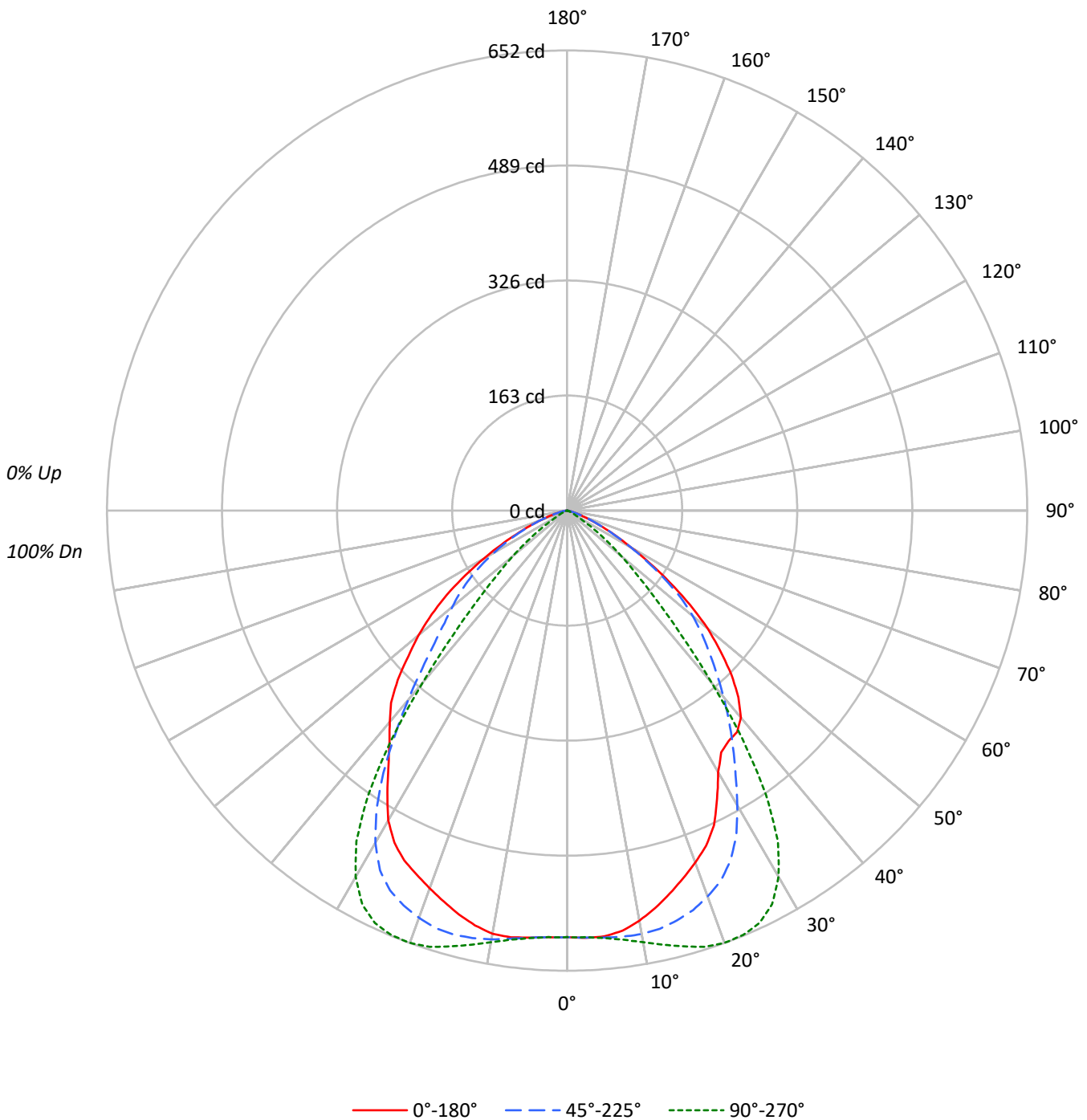
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	18637	18637	18637
5°	18746	18817	18795
10°	18471	19445	19066
15°	17932	20409	18915
20°	17412	21389	18685
25°	16743	21939	18598
30°	15236	21336	18045
35°	15009	18487	16605
40°	15417	12821	15739
45°	14352	7749	14801
50°	12449	4788	13188
55°	9553	2500	11193
60°	6506	1011	8449
65°	4050	518	5830
70°	2200	316	3561
75°	1144	155	2097
80°	515	178	1137
85°	354	106	1026



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	5.0
10°-20°	172.2	14.8
20°-30°	262.7	22.5
30°-40°	274.1	23.5
40°-50°	205.9	17.7
50°-60°	126.7	10.9
60°-70°	51.6	4.4
70°-80°	12.1	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°	493.0	42.3
0°-40°	767.1	65.8
0°-60°	1099.6	94.4
0°-90°	1165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1165.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	604	604	604	604	604	
5°	606	607	608	607	607	57
15°	562	601	639	622	592	158
25°	492	547	645	594	547	224
35°	399	410	491	454	441	252
45°	329	285	178	265	339	251
55°	178	169	46	169	208	160
65°	56	56	7	75	80	58
75°	10	10	1	17	18	12
85°	1	1	0	2	3	1
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°	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4
2.5°	606.0	605.0	606.0	606.0	606.3	605.6	606.0	606.3	605.6	605.6	605.6
5°	605.6	605.0	605.6	605.3	606.0	606.0	606.6	606.6	607.2	607.2	608.2
7.5°	600.5	599.2	600.5	601.5	602.1	603.4	605.0	606.3	607.6	608.9	610.5
10°	589.9	589.9	590.9	592.8	594.7	597.0	599.9	603.1	606.3	609.2	612.1
12.5°	576.8	575.8	577.7	580.3	583.2	586.7	591.2	596.0	601.2	606.9	611.4
15°	561.7	560.7	563.0	565.5	569.1	574.2	579.7	586.1	593.5	601.2	608.5
17.5°	546.3	546.0	548.2	551.8	554.6	560.1	567.2	574.8	583.2	593.5	603.1
20°	530.6	530.3	532.5	535.4	539.2	544.4	551.4	560.4	570.4	581.9	593.1
22.5°	514.2	514.5	516.5	519.7	522.9	528.3	535.7	544.7	555.6	568.1	580.6
25°	492.1	490.5	493.1	496.3	501.7	506.2	513.3	522.9	534.1	547.3	562.0
27.5°	460.0	459.7	461.9	464.8	469.6	475.1	482.8	492.7	504.6	519.0	533.5
30°	427.9	428.6	429.5	432.4	435.6	441.1	448.8	457.1	468.4	482.1	497.5
32.5°	406.1	406.1	407.4	409.3	411.6	414.5	419.9	426.0	434.7	444.3	455.5
35°	398.7	397.5	398.7	399.1	399.4	400.0	401.0	402.9	405.8	410.0	414.1
37.5°	395.5	394.6	394.6	393.3	391.7	389.8	387.2	384.3	381.1	376.9	373.7
40°	383.0	382.4	381.7	380.5	376.9	373.1	368.9	362.2	354.8	344.5	334.3
42.5°	359.0	358.3	358.0	355.4	352.2	347.7	342.9	335.9	326.6	313.4	298.7
45°	329.1	327.8	326.9	324.6	322.4	318.5	314.1	307.6	298.3	284.9	267.2
47.5°	294.5	293.8	293.5	292.6	290.3	288.1	285.2	280.0	271.7	258.9	240.6
50°	259.5	258.2	258.9	258.6	257.6	256.0	254.1	250.5	244.1	232.6	215.9
52.5°	219.4	219.4	219.1	220.1	220.4	220.1	220.4	216.5	211.1	202.4	188.3
55°	177.7	177.7	178.7	180.0	181.2	181.6	181.2	179.6	175.8	168.7	156.2
57.5°	138.6	137.9	139.9	141.8	143.1	144.4	143.4	142.1	139.9	134.1	124.5
60°	105.5	105.5	106.8	108.1	109.4	110.7	110.4	110.0	108.1	104.3	96.6
62.5°	77.6	77.9	77.9	78.9	80.2	81.5	82.4	81.5	80.5	77.9	72.8
65°	55.5	55.2	55.5	56.5	57.4	58.7	59.3	59.0	58.1	56.1	52.3
67.5°	37.2	36.9	38.2	38.5	39.1	40.4	40.1	40.4	40.1	38.5	35.3
70°	24.4	23.7	24.4	24.1	25.0	25.3	26.0	26.3	26.0	25.0	24.1
72.5°	15.1	14.8	15.1	15.4	15.7	16.0	16.7	16.7	16.4	15.7	14.4
75°	9.6	8.7	9.0	8.3	9.0	9.0	9.6	9.9	9.6	9.6	9.0
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.1	6.4	5.8	5.5
80°	2.9	2.9	3.2	3.2	3.2	3.5	3.2	3.2	3.2	3.5	2.6
82.5°	2.2	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.3	1.0	0.6	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	0.6	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°	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4
2.5°	606.0	605.3	605.3	605.0	605.6	605.0	605.3	605.0	605.0	605.6	605.0
5°	608.2	608.5	607.9	607.6	608.5	608.5	608.5	607.9	607.9	608.2	607.9
7.5°	611.4	612.1	612.4	612.7	613.3	613.7	613.7	613.3	613.0	614.0	612.7
10°	614.9	615.9	617.8	618.8	620.4	620.4	621.0	621.0	620.4	621.0	620.7
12.5°	613.7	619.4	622.6	624.9	627.1	629.1	629.7	630.0	629.7	631.0	629.7
15°	615.9	620.7	625.9	629.7	633.9	636.1	636.8	639.3	640.0	640.3	638.4
17.5°	612.4	621.0	626.5	632.3	638.4	642.5	646.4	648.0	648.3	649.0	646.4
20°	604.4	614.0	622.3	630.7	637.7	644.1	647.4	651.8	650.6	653.1	649.6
22.5°	593.5	604.4	614.9	625.9	633.2	640.9	647.7	650.9	652.5	652.5	648.6
25°	576.1	589.0	600.5	611.7	623.0	632.3	640.0	644.8	645.7	645.4	640.9
27.5°	549.2	563.0	576.5	589.3	603.1	614.0	623.0	628.7	630.3	630.3	625.5
30°	512.0	526.7	539.9	555.3	569.4	581.6	594.1	599.2	602.1	602.1	596.7
32.5°	467.7	480.2	492.4	507.5	522.9	536.7	548.5	555.6	559.1	558.8	554.0
35°	419.6	425.7	435.0	446.2	460.0	472.8	484.4	491.1	497.2	496.9	492.4
37.5°	371.5	369.9	370.8	375.0	383.7	392.6	401.6	408.0	413.2	415.4	414.5
40°	324.3	316.0	308.0	305.1	305.7	308.9	313.7	318.5	324.3	327.2	328.5
42.5°	282.0	267.9	253.7	243.2	237.1	235.1	237.4	239.0	242.5	246.7	250.9
45°	248.0	229.0	210.4	194.1	183.8	177.7	176.4	177.7	179.6	183.8	189.3
47.5°	220.1	197.9	177.1	158.8	143.7	135.7	133.5	132.8	134.7	138.6	146.0
50°	195.4	173.2	150.1	129.0	113.2	104.3	101.0	99.8	102.0	104.9	111.6
52.5°	168.4	146.6	122.9	102.3	86.0	76.7	73.1	71.2	72.5	76.3	83.1
55°	139.2	119.0	97.5	76.3	60.6	52.0	47.8	46.5	47.8	52.0	58.7
57.5°	110.0	93.0	75.1	55.2	41.1	32.4	28.2	26.9	30.5	32.1	39.1
60°	86.0	72.2	56.8	40.4	28.2	21.5	17.3	16.4	18.0	20.8	26.6
62.5°	64.5	55.8	43.6	28.9	20.8	13.8	11.5	10.6	11.5	13.8	18.3
65°	46.8	40.1	30.5	21.2	14.1	10.3	7.7	7.1	8.0	9.6	13.5
67.5°	32.1	26.9	21.2	14.8	9.6	6.4	5.5	5.5	5.8	7.1	9.9
70°	20.8	17.6	13.5	9.6	6.4	4.8	4.2	3.5	4.2	5.1	6.7
72.5°	13.2	11.2	8.7	6.7	4.8	3.5	2.9	2.6	3.2	3.8	5.1
75°	8.0	6.1	4.5	3.5	2.6	2.6	2.6	1.3	1.6	2.6	3.2
77.5°	4.8	4.2	3.5	2.9	2.2	1.3	1.3	1.3	1.6	1.9	2.9
80°	2.6	2.2	1.6	1.6	1.3	1.0	1.3	1.0	0.6	1.6	1.9
82.5°	1.6	1.3	1.3	1.3	1.6	0.6	1.0	0.6	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.6	1.6	0.6	0.6	0.3	0.3	0.6	0.6
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°	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4	604.4
2.5°	605.3	605.0	605.3	605.0	605.0	605.0	605.3	605.3	605.0	605.0	605.6
5°	607.9	607.9	607.9	607.6	607.2	607.2	607.9	607.9	606.9	607.9	607.9
7.5°	613.3	612.4	613.3	612.1	611.4	611.7	612.1	611.4	610.8	611.1	611.1
10°	620.4	619.4	619.4	618.5	617.5	616.9	616.2	614.6	613.0	612.7	611.4
12.5°	628.7	627.1	626.2	624.3	622.6	620.4	618.5	615.9	612.7	610.5	608.2
15°	637.1	634.5	632.3	629.1	625.5	621.7	617.5	613.3	608.2	603.7	599.9
17.5°	643.8	640.3	636.1	631.0	625.9	620.1	614.0	607.9	600.5	594.7	590.2
20°	646.1	640.9	635.5	628.7	622.0	614.0	606.3	598.3	589.9	583.8	578.7
22.5°	643.2	637.1	630.3	623.3	614.3	605.6	596.7	587.4	580.0	571.6	566.8
25°	635.2	627.8	620.4	612.1	603.4	593.8	584.2	574.5	565.5	561.1	555.0
27.5°	618.8	610.8	602.8	594.1	584.2	574.5	564.6	555.3	547.6	541.5	538.0
30°	589.9	580.6	571.3	562.0	553.4	543.4	534.1	526.4	518.7	513.9	510.4
32.5°	545.7	537.3	528.0	519.0	511.0	502.7	495.0	488.2	482.8	479.6	477.0
35°	486.0	477.7	470.6	464.2	457.4	453.9	449.1	445.3	443.0	441.7	441.4
37.5°	410.9	406.1	403.9	402.6	401.3	400.3	401.0	402.6	403.9	406.1	408.7
40°	330.7	334.9	336.2	340.7	344.8	350.3	356.4	363.5	369.2	376.6	381.7
42.5°	257.6	265.3	274.3	283.9	294.2	304.1	316.3	327.5	337.8	347.1	355.1
45°	197.9	209.8	223.3	237.1	250.9	265.3	280.0	293.8	306.0	316.0	324.3
47.5°	154.3	167.5	184.8	201.8	218.5	235.5	251.8	266.3	276.5	286.1	293.5
50°	122.2	137.3	156.2	175.8	194.1	212.0	229.4	242.8	253.1	260.8	266.3
52.5°	94.6	112.6	131.8	152.4	171.9	191.5	207.5	220.1	228.4	235.1	239.3
55°	70.6	88.2	108.7	129.9	149.8	168.7	183.8	194.7	202.1	205.9	208.2
57.5°	51.0	67.0	87.6	108.7	126.7	144.7	156.9	166.8	171.0	173.2	174.2
60°	37.2	52.0	70.2	88.5	105.5	120.0	130.6	137.3	140.5	141.8	141.5
62.5°	27.3	40.1	55.8	71.2	85.0	96.9	105.2	109.7	111.3	112.0	111.0
65°	20.8	30.8	44.3	56.1	66.7	75.4	81.5	84.4	85.3	85.0	84.4
67.5°	15.4	23.1	33.0	42.0	49.7	56.5	59.7	62.2	62.9	61.9	60.9
70°	10.9	17.0	24.1	30.2	35.9	39.8	43.3	43.6	43.6	43.3	42.7
72.5°	7.7	11.9	16.4	20.5	24.1	26.9	28.2	29.2	28.9	28.5	27.9
75°	5.1	7.4	11.9	12.8	16.0	17.0	18.3	18.3	18.6	17.6	17.6
77.5°	3.2	5.1	7.1	8.3	9.6	10.9	11.5	11.5	11.9	11.5	11.5
80°	1.9	3.2	3.8	5.8	5.8	6.7	7.1	7.4	6.7	7.7	6.7
82.5°	1.3	1.9	2.9	2.9	3.5	4.2	4.2	4.5	4.5	4.2	4.2
85°	1.0	1.3	1.6	1.9	1.9	2.2	1.9	1.9	2.2	2.6	2.2
87.5°	0.3	0.6	0.3	0.6	0.6	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°	604.4	604.4	604.4	604.4
2.5°	605.0	605.3	605.0	605.0
5°	607.9	607.6	607.9	607.2
7.5°	610.1	610.1	609.8	609.8
10°	610.1	608.9	608.9	608.9
12.5°	605.3	603.7	602.8	602.1
15°	597.0	594.1	592.8	592.5
17.5°	586.1	583.5	581.9	580.9
20°	573.6	571.0	569.1	569.4
22.5°	562.7	559.8	558.5	557.8
25°	551.8	548.2	547.3	546.6
27.5°	534.1	532.2	531.2	530.3
30°	507.2	506.2	504.6	506.8
32.5°	476.1	474.4	473.2	474.1
35°	441.7	440.8	441.7	441.1
37.5°	410.3	411.2	412.5	413.2
40°	385.6	389.1	390.4	391.0
42.5°	360.9	365.1	367.6	369.2
45°	330.4	334.6	337.5	339.4
47.5°	299.0	302.5	305.4	305.1
50°	270.4	272.3	273.6	274.9
52.5°	241.5	241.5	241.9	241.9
55°	208.8	208.2	207.9	208.2
57.5°	172.9	172.3	171.9	171.0
60°	140.2	138.3	137.0	137.0
62.5°	109.7	107.5	106.5	106.2
65°	82.4	82.1	80.2	79.9
67.5°	59.7	58.4	57.1	57.4
70°	42.0	40.1	40.1	39.5
72.5°	27.3	26.3	26.0	26.0
75°	17.0	17.0	16.4	17.6
77.5°	11.2	11.2	10.9	11.2
80°	6.7	6.7	6.7	6.4
82.5°	4.2	4.5	4.2	4.2
85°	2.2	2.6	1.9	2.9
87.5°	1.3	1.6	1.3	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)