

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: P245515

Luminaire Tested: **LSR8B15D010 EC8B159727 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245515  
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 EC8B159727 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1099.0 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

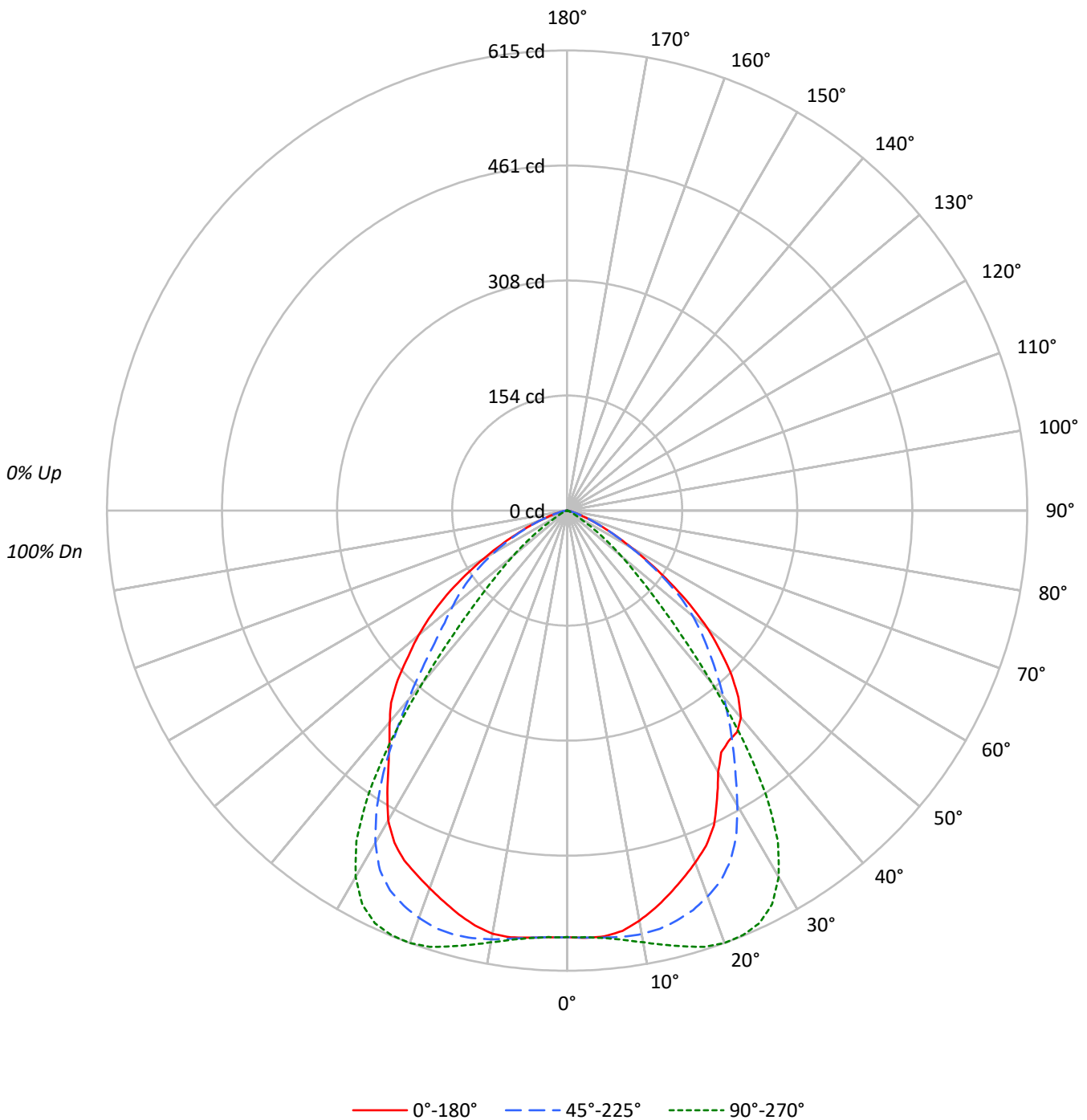
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	62	62	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50	50	50	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45	45	45	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41	41	41	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38	38	38	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34	34	34	34

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	5.0
10°-20°	162.4	14.8
20°-30°	247.8	22.5
30°-40°	258.6	23.5
40°-50°	194.2	17.7
50°-60°	119.5	10.9
60°-70°	48.6	4.4
70°-80°	11.4	1.0
80°-90°	1.6	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°	465.0	42.3
0°-40°	723.6	65.8
0°-60°	1037.3	94.4
0°-90°	1099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	570	570	570	570	570	
5°	571	573	574	573	573	54
15°	530	567	603	586	559	149
25°	464	516	608	560	516	211
35°	376	387	463	428	416	237
45°	310	269	168	250	320	237
55°	168	159	44	159	196	151
65°	52	53	7	71	75	55
75°	9	9	1	16	17	11
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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	571.6	570.7	571.6	571.6	571.9	571.3	571.6	571.9	571.3	571.3	571.3
5°	571.3	570.7	571.3	571.0	571.6	571.6	572.2	572.2	572.8	572.8	573.8
7.5°	566.5	565.3	566.5	567.4	568.0	569.2	570.7	571.9	573.2	574.4	575.9
10°	556.5	556.5	557.4	559.2	561.0	563.2	565.9	568.9	571.9	574.7	577.4
12.5°	544.1	543.2	545.0	547.4	550.2	553.5	557.7	562.3	567.1	572.5	576.8
15°	529.9	529.0	531.1	533.5	536.8	541.7	546.8	552.9	559.8	567.1	574.1
17.5°	515.4	515.0	517.2	520.5	523.2	528.4	535.0	542.3	550.2	559.8	568.9
20°	500.5	500.2	502.3	505.1	508.7	513.5	520.2	528.7	538.0	548.9	559.5
22.5°	485.1	485.4	487.2	490.2	493.3	498.4	505.4	513.8	524.1	535.9	547.7
25°	464.2	462.7	465.1	468.1	473.3	477.5	484.2	493.3	503.9	516.3	530.2
27.5°	433.9	433.6	435.8	438.5	443.0	448.2	455.4	464.8	476.0	489.6	503.2
30°	403.7	404.3	405.2	407.9	410.9	416.1	423.4	431.2	441.8	454.8	469.4
32.5°	383.1	383.1	384.3	386.1	388.3	391.0	396.1	401.9	410.0	419.1	429.7
35°	376.1	374.9	376.1	376.5	376.8	377.4	378.3	380.1	382.8	386.7	390.7
37.5°	373.1	372.2	372.2	371.0	369.5	367.7	365.3	362.5	359.5	355.6	352.5
40°	361.3	360.7	360.1	358.9	355.6	351.9	348.0	341.6	334.7	325.0	315.3
42.5°	338.6	338.0	337.7	335.3	332.3	328.0	323.5	316.8	308.1	295.7	281.7
45°	310.5	309.3	308.4	306.2	304.1	300.5	296.3	290.2	281.4	268.7	252.1
47.5°	277.8	277.2	276.9	276.0	273.9	271.7	269.0	264.2	256.3	244.2	227.0
50°	244.8	243.6	244.2	243.9	243.0	241.5	239.7	236.3	230.3	219.4	203.7
52.5°	207.0	207.0	206.7	207.6	207.9	207.6	207.9	204.3	199.1	190.9	177.6
55°	167.6	167.6	168.6	169.8	171.0	171.3	171.0	169.5	165.8	159.2	147.4
57.5°	130.7	130.1	131.9	133.8	135.0	136.2	135.3	134.1	131.9	126.5	117.4
60°	99.6	99.6	100.8	102.0	103.2	104.4	104.1	103.8	102.0	98.3	91.1
62.5°	73.2	73.5	73.5	74.4	75.7	76.9	77.8	76.9	76.0	73.5	68.7
65°	52.3	52.0	52.3	53.3	54.2	55.4	56.0	55.7	54.8	53.0	49.3
67.5°	35.1	34.8	36.0	36.3	36.9	38.1	37.8	38.1	37.8	36.3	33.3
70°	23.0	22.4	23.0	22.7	23.6	23.9	24.5	24.8	24.5	23.6	22.7
72.5°	14.2	13.9	14.2	14.5	14.8	15.1	15.7	15.7	15.4	14.8	13.6
75°	9.1	8.2	8.5	7.9	8.5	8.5	9.1	9.4	9.1	9.1	8.5
77.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.8	6.0	5.4	5.1
80°	2.7	2.7	3.0	3.0	3.0	3.3	3.0	3.0	3.0	3.3	2.4
82.5°	2.1	1.8	1.8	1.8	2.1	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.9	1.2	0.9	0.6	0.9	0.9	1.2	0.9	0.9	0.9	1.2
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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	571.6	571.0	571.0	570.7	571.3	570.7	571.0	570.7	570.7	571.3	570.7
5°	573.8	574.1	573.5	573.2	574.1	574.1	574.1	573.5	573.5	573.8	573.5
7.5°	576.8	577.4	577.7	578.0	578.6	578.9	578.9	578.6	578.3	579.2	578.0
10°	580.1	581.0	582.8	583.7	585.3	585.3	585.9	585.9	585.3	585.9	585.6
12.5°	578.9	584.3	587.4	589.5	591.6	593.4	594.0	594.3	594.0	595.2	594.0
15°	581.0	585.6	590.4	594.0	598.0	600.1	600.7	603.1	603.7	604.0	602.2
17.5°	577.7	585.9	591.0	596.5	602.2	606.1	609.8	611.3	611.6	612.2	609.8
20°	570.1	579.2	587.1	594.9	601.6	607.6	610.7	614.9	613.7	616.1	612.8
22.5°	559.8	570.1	580.1	590.4	597.4	604.6	611.0	614.0	615.5	615.5	611.9
25°	543.5	555.6	566.5	577.1	587.7	596.5	603.7	608.3	609.2	608.9	604.6
27.5°	518.1	531.1	543.8	555.9	568.9	579.2	587.7	593.1	594.6	594.6	590.1
30°	483.0	496.9	509.3	523.8	537.1	548.6	560.4	565.3	568.0	568.0	562.9
32.5°	441.2	453.0	464.5	478.7	493.3	506.3	517.5	524.1	527.5	527.2	522.6
35°	395.8	401.6	410.3	420.9	433.9	446.1	456.9	463.3	469.1	468.7	464.5
37.5°	350.4	348.9	349.8	353.8	361.9	370.4	378.9	384.9	389.8	391.9	391.0
40°	305.9	298.1	290.5	287.8	288.4	291.4	296.0	300.5	305.9	308.7	309.9
42.5°	266.0	252.7	239.4	229.4	223.6	221.8	223.9	225.4	228.8	232.7	236.6
45°	233.9	216.1	198.5	183.1	173.4	167.6	166.4	167.6	169.5	173.4	178.5
47.5°	207.6	186.7	167.0	149.8	135.6	128.0	125.9	125.3	127.1	130.7	137.7
50°	184.3	163.4	141.6	121.6	106.8	98.3	95.3	94.1	96.2	99.0	105.3
52.5°	158.9	138.3	115.9	96.5	81.1	72.3	69.0	67.2	68.4	72.0	78.4
55°	131.3	112.3	92.0	72.0	57.2	49.0	45.1	43.9	45.1	49.0	55.4
57.5°	103.8	87.8	70.8	52.0	38.7	30.6	26.6	25.4	28.8	30.3	36.9
60°	81.1	68.1	53.6	38.1	26.6	20.3	16.3	15.4	16.9	19.7	25.1
62.5°	60.8	52.7	41.2	27.2	19.7	13.0	10.9	10.0	10.9	13.0	17.3
65°	44.2	37.8	28.8	20.0	13.3	9.7	7.3	6.7	7.6	9.1	12.7
67.5°	30.3	25.4	20.0	13.9	9.1	6.0	5.1	5.1	5.4	6.7	9.4
70°	19.7	16.6	12.7	9.1	6.0	4.5	3.9	3.3	3.9	4.8	6.4
72.5°	12.4	10.6	8.2	6.4	4.5	3.3	2.7	2.4	3.0	3.6	4.8
75°	7.6	5.8	4.2	3.3	2.4	2.4	2.4	1.2	1.5	2.4	3.0
77.5°	4.5	3.9	3.3	2.7	2.1	1.2	1.2	1.2	1.5	1.8	2.7
80°	2.4	2.1	1.5	1.5	1.2	0.9	1.2	0.9	0.6	1.5	1.8
82.5°	1.5	1.2	1.2	1.2	1.5	0.6	0.9	0.6	0.9	1.2	0.9
85°	0.9	0.9	0.9	0.6	1.5	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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	571.0	570.7	571.0	570.7	570.7	570.7	571.0	571.0	570.7	570.7	571.3
5°	573.5	573.5	573.5	573.2	572.8	572.8	573.5	573.5	572.5	573.5	573.5
7.5°	578.6	577.7	578.6	577.4	576.8	577.1	577.4	576.8	576.2	576.5	576.5
10°	585.3	584.3	584.3	583.4	582.5	581.9	581.3	579.8	578.3	578.0	576.8
12.5°	593.1	591.6	590.7	588.9	587.4	585.3	583.4	581.0	578.0	575.9	573.8
15°	601.0	598.6	596.5	593.4	590.1	586.5	582.5	578.6	573.8	569.5	565.9
17.5°	607.3	604.0	600.1	595.2	590.4	585.0	579.2	573.5	566.5	561.0	556.8
20°	609.5	604.6	599.5	593.1	586.8	579.2	571.9	564.4	556.5	550.8	545.9
22.5°	606.7	601.0	594.6	588.0	579.5	571.3	562.9	554.1	547.1	539.3	534.7
25°	599.2	592.2	585.3	577.4	569.2	560.1	551.1	542.0	533.5	529.3	523.5
27.5°	583.7	576.2	568.6	560.4	551.1	542.0	532.6	523.8	516.6	510.8	507.5
30°	556.5	547.7	539.0	530.2	522.0	512.6	503.9	496.6	489.3	484.8	481.5
32.5°	514.7	506.9	498.1	489.6	482.1	474.2	466.9	460.6	455.4	452.4	450.0
35°	458.5	450.6	443.9	437.9	431.5	428.2	423.7	420.0	417.9	416.7	416.4
37.5°	387.6	383.1	381.0	379.8	378.6	377.7	378.3	379.8	381.0	383.1	385.5
40°	312.0	315.9	317.1	321.4	325.3	330.5	336.2	342.9	348.3	355.3	360.1
42.5°	243.0	250.3	258.7	267.8	277.5	286.9	298.4	309.0	318.7	327.4	335.0
45°	186.7	197.9	210.6	223.6	236.6	250.3	264.2	277.2	288.7	298.1	305.9
47.5°	145.6	158.0	174.3	190.3	206.1	222.1	237.6	251.2	260.9	269.9	276.9
50°	115.3	129.5	147.4	165.8	183.1	200.0	216.4	229.1	238.8	246.0	251.2
52.5°	89.3	106.2	124.4	143.7	162.2	180.7	195.8	207.6	215.5	221.8	225.7
55°	66.6	83.2	102.6	122.6	141.3	159.2	173.4	183.7	190.7	194.3	196.4
57.5°	48.1	63.2	82.6	102.6	119.5	136.5	148.0	157.4	161.3	163.4	164.3
60°	35.1	49.0	66.3	83.5	99.6	113.2	123.2	129.5	132.5	133.8	133.5
62.5°	25.7	37.8	52.7	67.2	80.2	91.4	99.3	103.5	105.0	105.6	104.7
65°	19.7	29.0	41.8	53.0	62.9	71.1	76.9	79.6	80.5	80.2	79.6
67.5°	14.5	21.8	31.2	39.6	46.9	53.3	56.3	58.7	59.3	58.4	57.5
70°	10.3	16.0	22.7	28.4	33.9	37.5	40.9	41.2	41.2	40.9	40.3
72.5°	7.3	11.2	15.4	19.4	22.7	25.4	26.6	27.5	27.2	26.9	26.3
75°	4.8	7.0	11.2	12.1	15.1	16.0	17.3	17.3	17.5	16.6	16.6
77.5°	3.0	4.8	6.7	7.9	9.1	10.3	10.9	10.9	11.2	10.9	10.9
80°	1.8	3.0	3.6	5.4	5.4	6.4	6.7	7.0	6.4	7.3	6.4
82.5°	1.2	1.8	2.7	2.7	3.3	3.9	3.9	4.2	4.2	3.9	3.9
85°	0.9	1.2	1.5	1.8	1.8	2.1	1.8	1.8	2.1	2.4	2.1
87.5°	0.3	0.6	0.3	0.6	0.6	1.2	0.9	0.9	0.9	1.2	1.2
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°	570.1	570.1	570.1	570.1
2.5°	570.7	571.0	570.7	570.7
5°	573.5	573.2	573.5	572.8
7.5°	575.6	575.6	575.3	575.3
10°	575.6	574.4	574.4	574.4
12.5°	571.0	569.5	568.6	568.0
15°	563.2	560.4	559.2	558.9
17.5°	552.9	550.5	548.9	548.0
20°	541.1	538.7	536.8	537.1
22.5°	530.8	528.1	526.9	526.2
25°	520.5	517.2	516.3	515.7
27.5°	503.9	502.0	501.1	500.2
30°	478.4	477.5	476.0	478.1
32.5°	449.1	447.6	446.4	447.3
35°	416.7	415.8	416.7	416.1
37.5°	387.0	388.0	389.2	389.8
40°	363.7	367.1	368.3	368.9
42.5°	340.4	344.4	346.8	348.3
45°	311.7	315.6	318.3	320.2
47.5°	282.0	285.4	288.1	287.8
50°	255.1	256.9	258.1	259.3
52.5°	227.9	227.9	228.2	228.2
55°	197.0	196.4	196.1	196.4
57.5°	163.1	162.5	162.2	161.3
60°	132.2	130.4	129.2	129.2
62.5°	103.5	101.4	100.5	100.2
65°	77.8	77.5	75.7	75.3
67.5°	56.3	55.1	53.9	54.2
70°	39.6	37.8	37.8	37.2
72.5°	25.7	24.8	24.5	24.5
75°	16.0	16.0	15.4	16.6
77.5°	10.6	10.6	10.3	10.6
80°	6.4	6.4	6.4	6.0
82.5°	3.9	4.2	3.9	3.9
85°	2.1	2.4	1.8	2.7
87.5°	1.2	1.5	1.2	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)