

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: P246163

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246163  
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 EC8B15927 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1085.6 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

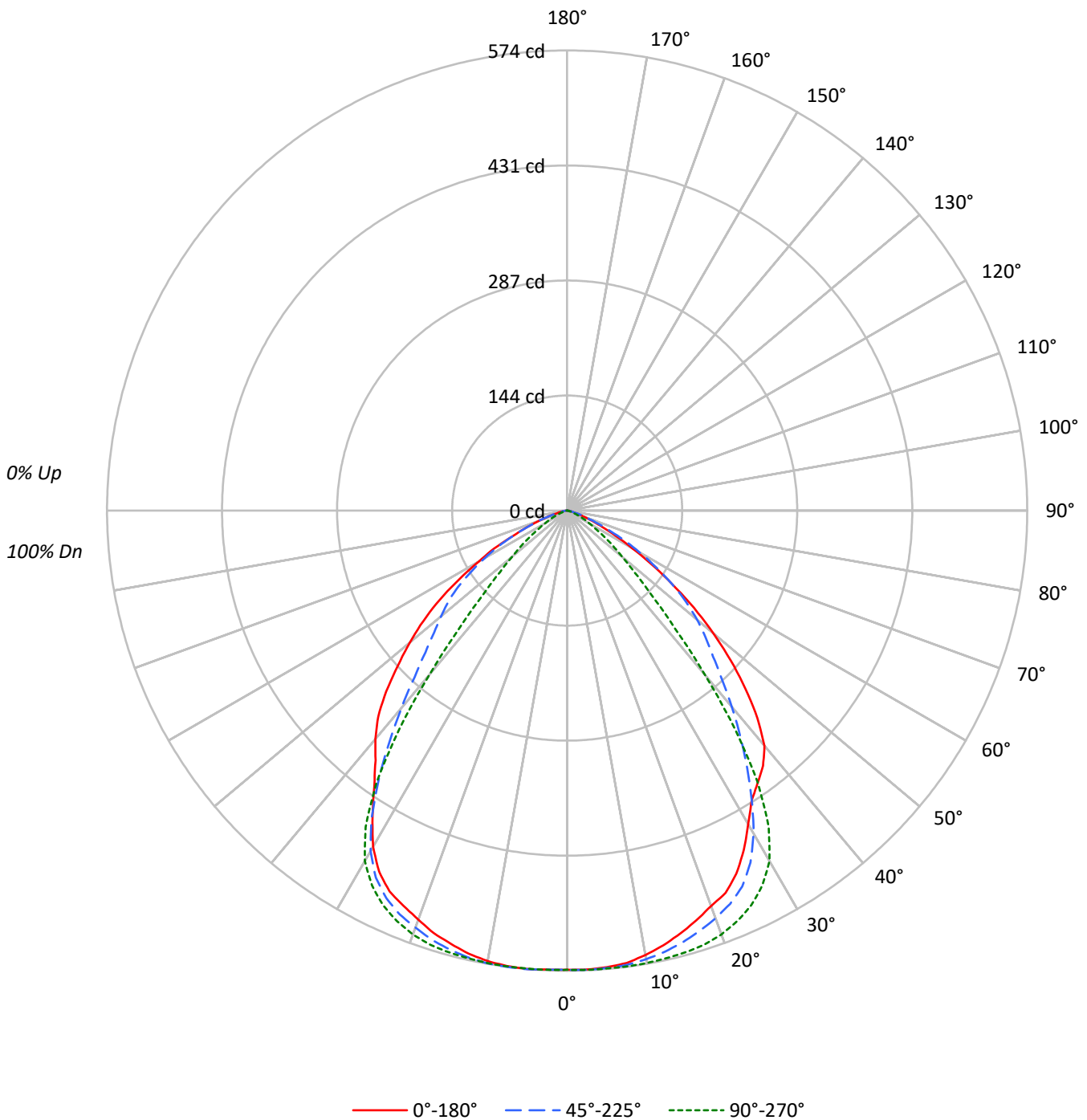
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	52	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°	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°	54.7	5.0
10°-20°	158.8	14.6
20°-30°	241.0	22.2
30°-40°	253.1	23.3
40°-50°	189.7	17.5
50°-60°	121.7	11.2
60°-70°	52.1	4.8
70°-80°	12.3	1.1
80°-90°	2.3	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°	454.4	41.9
0°-40°	707.5	65.2
0°-60°	1018.9	93.9
0°-90°	1085.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	573	573	573	573	573	
5°	572	573	573	574	574	54
15°	546	557	570	567	560	154
25°	500	517	543	534	524	228
35°	414	391	415	410	419	260
45°	315	257	148	250	319	241
55°	159	159	55	166	194	144
65°	48	57	18	73	74	51
75°	7	9	2	15	14	11
85°	2	2	1	2	3	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°	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8
2.5°	573.1	573.8	573.4	573.4	573.1	573.4	573.4	574.0	574.0	573.4	573.1
5°	571.8	572.5	572.5	571.8	571.8	573.4	572.5	573.1	573.1	572.8	572.8
7.5°	569.1	569.1	570.4	569.5	569.5	570.4	570.0	570.6	571.3	571.6	571.6
10°	562.9	563.6	563.8	563.8	564.2	565.1	565.8	567.0	567.6	568.2	568.5
12.5°	555.3	556.2	556.5	556.2	557.1	558.3	559.9	561.4	562.4	563.6	564.5
15°	546.1	546.1	546.6	547.5	548.2	550.0	551.6	553.4	555.9	557.4	559.0
17.5°	535.9	536.5	537.4	537.4	538.6	541.7	542.7	545.4	548.2	549.8	552.8
20°	524.8	525.5	526.4	526.9	528.5	531.0	532.8	535.3	538.3	541.1	544.2
22.5°	516.3	515.0	515.6	516.3	517.7	519.9	522.1	525.2	528.2	531.0	534.0
25°	499.6	500.0	500.8	501.4	503.3	505.1	507.6	511.3	514.1	517.2	520.5
27.5°	477.2	477.4	479.0	479.0	480.6	483.6	485.2	488.2	492.0	495.0	499.0
30°	451.7	452.2	452.2	453.5	454.4	456.0	457.5	460.6	462.4	465.2	470.7
32.5°	428.3	428.8	428.6	428.3	427.4	427.0	426.7	427.4	428.0	428.8	431.1
35°	414.4	412.9	411.6	409.5	407.0	404.0	401.3	397.6	394.2	391.4	388.3
37.5°	401.3	401.0	399.0	396.0	391.0	385.5	379.1	371.1	363.2	354.5	346.2
40°	382.8	381.8	380.4	376.0	370.5	363.7	355.2	345.3	332.3	319.2	305.7
42.5°	351.4	351.8	349.9	346.5	341.3	334.8	325.9	315.1	301.3	285.6	268.1
45°	314.9	314.9	314.2	311.4	307.8	302.5	295.8	286.9	273.4	257.3	238.6
47.5°	276.8	277.0	276.1	275.5	273.9	270.6	265.6	258.9	249.3	234.0	215.2
50°	237.9	237.9	239.5	239.2	239.2	237.9	235.8	231.9	223.5	211.3	193.7
52.5°	199.2	199.8	200.8	202.0	203.5	206.0	203.5	201.7	196.4	187.0	171.9
55°	159.3	159.9	161.4	163.6	165.4	167.8	168.5	168.5	165.7	159.3	147.9
57.5°	125.1	124.2	125.4	127.2	129.7	132.2	134.1	136.2	135.9	131.6	122.4
60°	94.0	94.4	95.3	97.2	99.0	101.1	103.6	105.4	106.4	104.3	98.4
62.5°	68.5	68.5	69.8	71.7	72.6	75.6	77.2	78.1	79.0	78.8	75.0
65°	47.9	48.6	49.2	50.1	51.1	52.9	53.8	55.7	56.2	56.6	53.8
67.5°	33.9	32.8	33.5	34.1	35.1	36.3	38.1	38.1	39.0	39.0	37.2
70°	21.5	21.5	21.8	22.7	23.4	23.6	24.3	24.9	25.9	25.5	25.5
72.5°	14.4	14.2	14.4	14.7	15.1	16.0	16.0	16.3	16.9	17.2	16.0
75°	7.4	7.6	8.3	8.0	8.9	8.3	8.7	9.6	9.2	8.7	8.7
77.5°	6.2	6.2	6.2	5.9	6.4	6.4	6.2	6.8	6.4	6.4	6.2
80°	4.3	4.6	4.3	4.0	4.3	4.0	4.0	4.0	4.0	4.0	3.7
82.5°	3.4	2.8	3.0	2.8	3.0	3.0	2.8	2.5	2.5	2.8	2.5
85°	2.5	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.8	1.6	1.6
87.5°	1.6	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	0.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8
2.5°	573.8	573.4	574.0	573.8	573.8	573.4	573.8	573.4	574.0	572.8	573.1
5°	573.8	573.1	573.4	573.8	574.0	573.4	573.4	573.4	574.0	573.4	573.8
7.5°	572.5	572.2	573.1	573.8	573.4	573.1	573.8	573.4	574.0	573.8	574.3
10°	570.0	570.4	570.9	571.8	572.2	572.5	573.1	573.1	574.0	572.8	573.4
12.5°	566.3	567.6	569.1	569.7	570.9	570.9	571.6	571.8	572.5	572.2	573.1
15°	561.7	563.3	565.1	566.7	568.2	569.1	570.0	570.4	571.3	570.4	570.6
17.5°	556.2	558.0	560.8	562.6	565.1	566.0	567.2	567.9	568.8	568.2	568.5
20°	548.6	550.7	553.7	556.5	558.0	560.1	561.7	562.6	563.3	562.6	562.9
22.5°	537.8	540.8	544.8	547.0	550.0	551.9	552.2	554.4	555.9	554.4	555.0
25°	525.2	528.2	531.3	535.9	538.6	540.8	542.9	543.3	544.8	544.5	544.2
27.5°	504.2	508.3	513.4	517.2	520.9	524.2	526.7	527.3	528.9	528.2	528.5
30°	475.6	479.9	484.9	490.7	495.9	499.3	502.4	504.6	506.0	505.1	504.9
32.5°	435.0	439.3	444.6	450.4	456.5	461.5	465.2	468.0	469.8	469.2	467.7
35°	388.7	389.8	393.3	397.8	403.1	408.3	411.6	414.8	416.9	417.5	417.5
37.5°	341.0	336.9	334.6	334.6	337.6	339.8	342.8	344.7	348.1	349.3	350.2
40°	294.9	285.6	277.0	270.6	266.3	266.0	266.0	266.8	270.0	273.9	277.7
42.5°	253.7	239.0	225.7	213.6	205.1	200.1	198.0	198.3	200.8	204.4	210.6
45°	220.7	202.3	185.7	171.2	159.5	151.9	148.2	147.9	149.7	154.0	160.8
47.5°	195.2	175.6	156.8	140.2	127.6	119.2	115.0	113.7	115.0	119.0	127.0
50°	174.0	153.8	134.3	117.1	103.6	95.1	91.0	89.4	91.0	94.4	102.4
52.5°	154.4	133.4	115.3	98.7	84.3	76.8	72.6	71.7	72.6	76.5	83.0
55°	131.6	113.7	96.0	79.3	66.7	59.3	55.9	55.0	55.9	59.6	66.4
57.5°	109.1	93.8	78.1	63.0	52.3	45.8	42.8	41.5	43.6	46.1	54.1
60°	88.2	75.9	62.8	49.5	40.6	34.8	32.3	32.0	32.6	35.7	41.2
62.5°	69.2	59.1	48.6	37.8	30.5	28.0	24.9	24.6	25.2	27.0	31.4
65°	49.8	43.3	35.3	27.7	21.8	18.4	17.2	17.6	18.1	19.3	23.4
67.5°	34.8	30.2	24.6	19.3	15.1	13.5	12.3	12.0	12.3	14.4	16.7
70°	23.4	20.6	16.7	14.7	10.5	8.3	8.7	7.6	8.9	8.9	10.8
72.5°	15.4	13.5	11.0	8.7	7.4	5.9	5.9	5.5	6.2	6.4	8.0
75°	8.0	6.2	6.2	4.3	3.0	1.6	2.8	2.5	2.1	2.5	3.0
77.5°	5.5	4.6	4.3	3.4	3.0	2.5	2.5	2.5	2.5	2.8	3.0
80°	3.4	3.4	2.5	2.1	1.8	1.6	1.8	1.8	1.8	1.8	2.1
82.5°	2.1	1.8	1.8	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.8
85°	1.8	1.2	1.2	0.9	1.2	2.1	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.6	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8
2.5°	573.8	574.0	574.0	573.8	573.8	573.1	574.3	573.4	573.8	575.0	574.0
5°	574.3	574.6	574.6	574.3	574.3	574.3	574.6	574.6	574.3	574.0	574.6
7.5°	575.6	575.2	575.2	574.6	574.6	574.0	574.6	573.8	574.3	573.8	574.6
10°	574.0	574.3	574.0	573.8	573.8	573.4	573.4	572.5	572.8	571.8	572.5
12.5°	573.1	572.8	572.8	572.2	571.6	570.9	570.6	569.7	569.7	567.6	568.5
15°	570.6	570.9	570.0	568.8	568.2	566.7	566.0	564.8	563.6	562.1	562.4
17.5°	568.5	567.6	566.3	565.1	562.6	561.4	560.1	558.3	557.8	555.9	555.3
20°	562.1	561.4	559.9	557.8	556.2	553.4	552.2	550.4	548.8	547.0	546.1
22.5°	553.7	553.2	551.2	549.1	546.6	545.4	544.2	540.8	539.3	537.4	537.1
25°	543.3	542.4	540.6	538.1	536.8	533.5	532.2	529.8	529.1	527.3	526.9
27.5°	527.3	526.1	523.9	520.9	518.7	516.5	515.2	513.4	512.9	511.0	510.8
30°	503.3	501.8	497.5	496.2	492.5	490.4	490.4	487.9	488.2	487.0	487.0
32.5°	465.5	463.0	459.7	457.2	454.7	453.5	453.5	452.6	453.2	453.2	453.8
35°	415.4	412.0	410.2	408.6	408.6	409.8	413.6	414.4	416.2	417.8	419.1
37.5°	351.1	350.8	352.9	354.8	359.4	364.6	371.1	376.7	381.8	385.5	389.2
40°	281.6	289.3	295.4	304.1	311.2	321.3	333.0	342.6	351.4	357.9	364.6
42.5°	219.8	229.7	242.6	255.2	267.8	281.6	297.0	310.3	321.9	330.9	338.0
45°	171.2	184.7	200.5	216.4	232.8	250.0	266.0	279.4	291.8	301.0	308.0
47.5°	138.0	152.8	170.7	188.2	206.7	224.8	242.6	254.2	264.4	271.8	278.2
50°	114.1	129.7	148.5	168.5	187.0	205.1	220.5	231.9	240.1	246.6	250.5
52.5°	95.3	111.9	131.8	151.9	170.3	187.0	200.8	209.4	216.1	220.7	224.4
55°	78.8	94.7	113.4	132.2	150.3	166.0	177.4	183.8	189.1	191.8	194.0
57.5°	64.2	79.0	96.2	113.4	129.2	142.1	151.0	157.4	159.9	162.0	161.8
60°	50.4	64.2	80.0	94.7	108.2	118.7	125.1	128.8	130.6	131.6	131.0
62.5°	39.7	52.3	64.2	77.2	87.0	96.0	102.0	102.0	103.0	103.3	104.3
65°	29.5	39.0	49.5	59.1	67.0	72.9	76.3	77.2	78.4	78.1	77.5
67.5°	21.8	28.9	36.6	43.6	49.2	52.9	55.4	57.5	57.2	56.6	56.2
70°	15.1	19.7	26.4	30.7	34.8	38.5	39.0	39.4	39.7	39.9	39.4
72.5°	10.5	13.8	17.6	21.3	23.6	25.2	26.8	27.0	27.0	27.0	26.8
75°	5.2	7.1	10.5	12.0	14.2	14.7	16.0	16.0	16.9	15.6	15.4
77.5°	4.6	5.5	7.4	8.7	9.6	10.5	10.8	11.7	11.4	10.8	11.0
80°	2.8	3.4	4.6	5.2	6.4	6.8	7.1	7.4	7.1	7.4	7.4
82.5°	2.1	2.5	3.0	3.0	4.0	4.0	4.3	4.3	4.6	4.6	4.6
85°	1.2	2.1	1.8	3.7	2.5	2.5	3.0	3.7	3.0	3.0	3.7
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.6	1.8	1.8	2.1	1.8
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):**

	165°	170°	175°	180°
0°	572.8	572.8	572.8	572.8
2.5°	573.8	574.3	573.4	573.1
5°	574.6	574.6	574.0	574.0
7.5°	574.6	574.6	573.8	573.1
10°	572.2	572.2	571.3	570.6
12.5°	567.6	567.6	567.2	566.3
15°	561.7	561.7	560.5	559.6
17.5°	553.7	554.4	552.8	552.8
20°	545.2	544.8	543.6	542.9
22.5°	536.2	535.6	535.3	533.5
25°	526.7	526.1	525.2	524.2
27.5°	510.4	510.1	509.2	507.9
30°	485.4	485.2	484.0	484.0
32.5°	453.2	452.9	451.7	452.0
35°	419.6	420.9	420.3	419.1
37.5°	391.7	392.6	393.3	392.6
40°	368.3	371.1	371.4	372.0
42.5°	343.5	347.2	348.3	349.0
45°	313.7	317.0	319.7	319.2
47.5°	283.2	285.6	288.1	286.2
50°	253.9	255.5	256.4	256.4
52.5°	226.2	226.2	226.0	226.2
55°	194.6	194.6	193.4	194.0
57.5°	161.4	162.0	161.1	159.5
60°	130.6	129.2	128.5	127.6
62.5°	101.8	101.8	99.7	102.4
65°	76.3	75.4	74.4	74.1
67.5°	55.4	55.0	54.1	53.8
70°	39.0	37.8	37.5	36.9
72.5°	26.1	26.1	25.5	25.5
75°	16.0	14.4	14.2	14.4
77.5°	11.0	10.8	10.8	10.5
80°	7.4	7.1	7.6	6.8
82.5°	4.6	5.0	4.6	5.0
85°	3.0	3.7	3.4	3.4
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)