

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: P245521

Luminaire Tested: **LSR8B15D010 EC8B15930 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245521  
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 EC8B15930 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1303.7 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

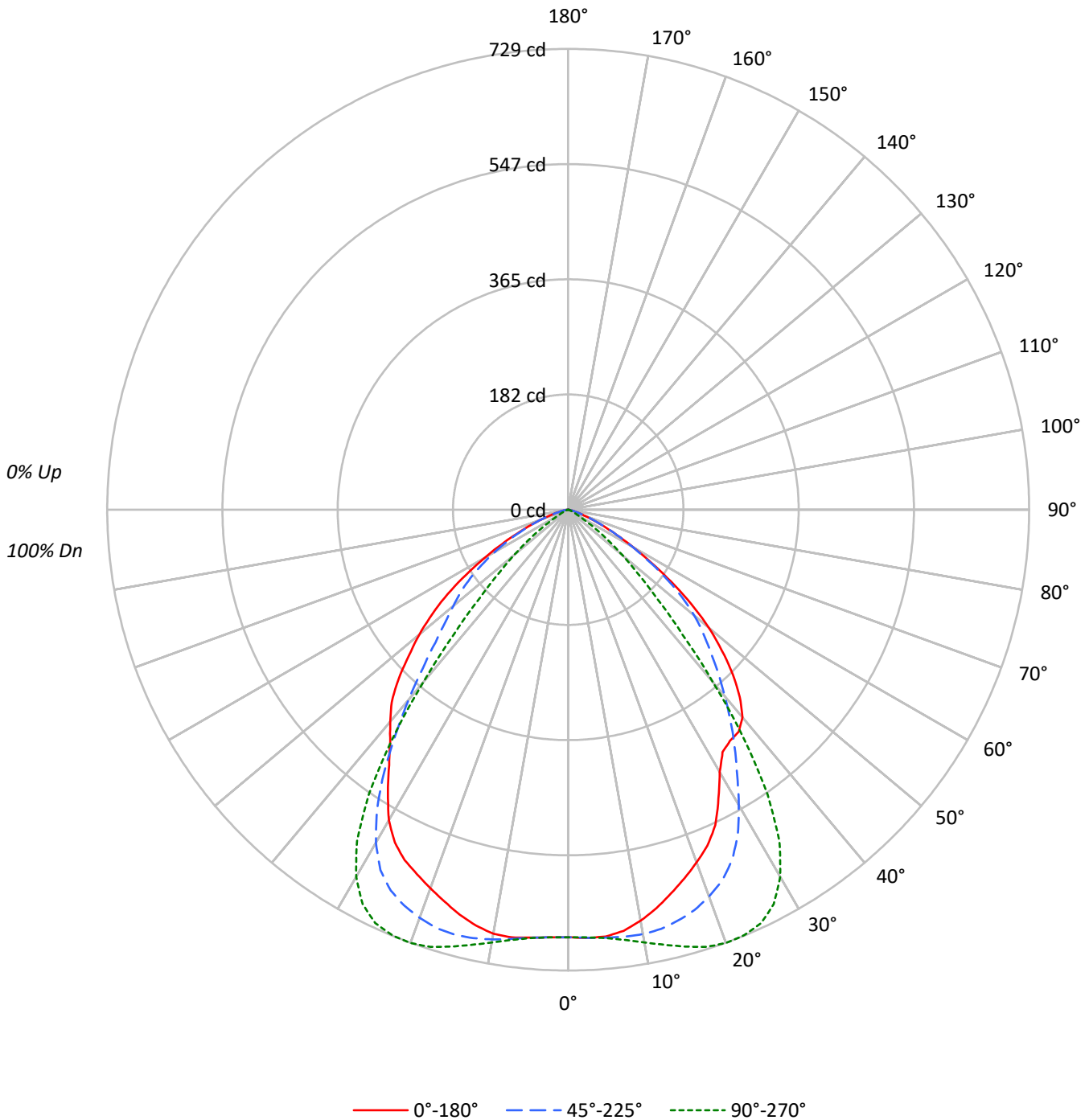
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	65.0	5.0
10°-20°	192.7	14.8
20°-30°	293.9	22.5
30°-40°	306.7	23.5
40°-50°	230.4	17.7
50°-60°	141.8	10.9
60°-70°	57.7	4.4
70°-80°	13.6	1.0
80°-90°	1.9	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°	551.7	42.3
0°-40°	858.4	65.8
0°-60°	1230.6	94.4
0°-90°	1303.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1303.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	676	676	676	676	676	
5°	678	680	680	680	680	64
15°	628	673	715	696	663	177
25°	551	612	722	664	612	250
35°	446	459	550	508	494	282
45°	368	319	199	297	380	281
55°	199	189	52	189	233	179
65°	62	63	8	84	89	65
75°	11	11	2	19	20	13
85°	1	1	0	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°	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3
2.5°	678.1	677.1	678.1	678.1	678.5	677.8	678.1	678.5	677.8	677.8	677.8
5°	677.8	677.1	677.8	677.4	678.1	678.1	678.9	678.9	679.6	679.6	680.7
7.5°	672.0	670.6	672.0	673.0	673.8	675.3	677.1	678.5	679.9	681.3	683.1
10°	660.2	660.2	661.3	663.4	665.5	668.1	671.3	674.8	678.5	681.7	684.9
12.5°	645.5	644.4	646.5	649.4	652.6	656.6	661.6	667.0	672.7	679.2	684.3
15°	628.5	627.5	630.0	632.9	636.8	642.6	648.7	655.9	664.1	672.7	681.0
17.5°	611.4	610.9	613.5	617.4	620.7	626.8	634.7	643.3	652.6	664.1	674.8
20°	593.8	593.5	595.9	599.2	603.4	609.2	617.1	627.2	638.3	651.2	663.7
22.5°	575.4	575.9	578.0	581.6	585.2	591.2	599.5	609.6	621.7	635.7	649.7
25°	550.6	548.8	551.8	555.3	561.4	566.4	574.4	585.2	597.7	612.4	629.0
27.5°	514.8	514.4	516.9	520.1	525.5	531.7	540.3	551.4	564.6	580.8	597.0
30°	478.9	479.6	480.7	483.9	487.5	493.6	502.2	511.5	524.1	539.5	556.8
32.5°	454.5	454.5	455.9	458.0	460.6	463.8	469.9	476.8	486.4	497.2	509.7
35°	446.3	444.8	446.3	446.6	446.9	447.6	448.7	450.9	454.1	458.8	463.4
37.5°	442.7	441.6	441.6	440.1	438.3	436.2	433.3	430.0	426.4	421.8	418.2
40°	428.7	427.9	427.2	425.8	421.8	417.5	412.9	405.2	397.1	385.5	374.1
42.5°	401.7	401.0	400.6	397.7	394.1	389.1	383.7	375.9	365.4	350.8	334.2
45°	368.4	366.9	365.8	363.3	360.7	356.5	351.4	344.3	333.8	318.8	299.1
47.5°	329.6	328.8	328.5	327.4	324.9	322.4	319.1	313.4	304.0	289.7	269.3
50°	290.5	289.0	289.7	289.3	288.3	286.5	284.3	280.4	273.2	260.3	241.6
52.5°	245.5	245.5	245.2	246.3	246.6	246.3	246.6	242.4	236.2	226.6	210.7
55°	198.9	198.9	200.0	201.4	202.8	203.2	202.8	201.0	196.7	188.8	174.9
57.5°	155.0	154.4	156.5	158.6	160.1	161.5	160.4	159.1	156.5	150.1	139.3
60°	118.2	118.2	119.5	121.0	122.4	123.9	123.5	123.1	121.0	116.7	108.1
62.5°	86.9	87.2	87.2	88.3	89.8	91.1	92.3	91.1	90.1	87.2	81.5
65°	62.1	61.8	62.1	63.2	64.2	65.7	66.4	66.0	65.0	62.8	58.5
67.5°	41.6	41.3	42.7	43.0	43.8	45.3	44.8	45.3	44.8	43.0	39.5
70°	27.2	26.6	27.2	26.9	28.0	28.4	29.0	29.5	29.0	28.0	26.9
72.5°	16.9	16.5	16.9	17.3	17.6	17.9	18.7	18.7	18.3	17.6	16.1
75°	10.8	9.6	10.1	9.3	10.1	10.1	10.8	11.1	10.8	10.8	10.1
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.8	7.2	6.5	6.1
80°	3.3	3.3	3.6	3.6	3.6	3.9	3.6	3.6	3.6	3.9	2.9
82.5°	2.5	2.1	2.1	2.1	2.5	2.1	2.1	2.1	2.1	2.1	2.1
85°	1.1	1.5	1.1	0.7	1.1	1.1	1.5	1.1	1.1	1.1	1.5
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.7	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°	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3
2.5°	678.1	677.4	677.4	677.1	677.8	677.1	677.4	677.1	677.1	677.8	677.1
5°	680.7	681.0	680.2	679.9	681.0	681.0	681.0	680.2	680.2	680.7	680.2
7.5°	684.3	684.9	685.3	685.7	686.4	686.7	686.7	686.4	686.1	687.1	685.7
10°	688.2	689.3	691.4	692.4	694.2	694.2	695.0	695.0	694.2	695.0	694.7
12.5°	686.7	693.2	696.8	699.3	701.9	704.0	704.7	705.0	704.7	706.1	704.7
15°	689.3	694.7	700.4	704.7	709.4	711.8	712.6	715.4	716.2	716.5	714.4
17.5°	685.3	695.0	701.1	707.6	714.4	719.0	723.4	725.2	725.5	726.2	723.4
20°	676.3	687.1	696.5	705.8	713.6	720.8	724.4	729.4	728.0	730.9	727.0
22.5°	664.1	676.3	688.2	700.4	708.7	717.2	724.8	728.4	730.2	730.2	725.8
25°	644.7	659.1	672.0	684.6	697.1	707.6	716.2	721.6	722.6	722.3	717.2
27.5°	614.5	630.0	645.1	659.5	674.8	687.1	697.1	703.7	705.4	705.4	700.1
30°	572.9	589.4	604.2	621.4	637.2	650.9	664.9	670.6	673.8	673.8	667.7
32.5°	523.4	537.4	551.1	567.9	585.2	600.6	613.9	621.7	625.7	625.4	619.9
35°	469.6	476.4	486.7	499.4	514.8	529.1	542.1	549.6	556.5	556.0	551.1
37.5°	415.7	413.9	415.0	419.7	429.3	439.4	449.4	456.6	462.4	464.9	463.8
40°	363.0	353.6	344.6	341.3	342.1	345.7	351.1	356.5	363.0	366.1	367.6
42.5°	315.6	299.8	283.9	272.1	265.3	263.1	265.7	267.5	271.4	276.1	280.7
45°	277.4	256.4	235.5	217.1	205.7	198.9	197.4	198.9	201.0	205.7	211.8
47.5°	246.3	221.5	198.2	177.7	160.9	151.9	149.3	148.6	150.8	155.0	163.3
50°	218.6	193.8	168.0	144.3	126.7	116.7	113.1	111.7	114.1	117.4	124.9
52.5°	188.4	164.0	137.5	114.6	96.2	85.8	81.8	79.7	81.2	85.4	92.9
55°	155.8	133.2	109.2	85.4	67.8	58.2	53.5	52.0	53.5	58.2	65.7
57.5°	123.1	104.1	84.0	61.8	46.0	36.2	31.6	30.2	34.1	35.9	43.8
60°	96.2	80.8	63.6	45.3	31.6	24.1	19.4	18.3	20.1	23.3	29.8
62.5°	72.2	62.4	48.9	32.3	23.3	15.5	12.9	11.9	12.9	15.5	20.5
65°	52.5	44.8	34.1	23.7	15.8	11.4	8.6	7.8	9.0	10.8	15.1
67.5°	35.9	30.2	23.7	16.5	10.8	7.2	6.1	6.1	6.5	7.8	11.1
70°	23.3	19.7	15.1	10.8	7.2	5.4	4.7	3.9	4.7	5.7	7.5
72.5°	14.7	12.6	9.6	7.5	5.4	3.9	3.3	2.9	3.6	4.3	5.7
75°	9.0	6.8	5.0	3.9	2.9	2.9	2.9	1.5	1.8	2.9	3.6
77.5°	5.4	4.7	3.9	3.3	2.5	1.5	1.5	1.5	1.8	2.1	3.3
80°	2.9	2.5	1.8	1.8	1.5	1.1	1.5	1.1	0.7	1.8	2.1
82.5°	1.8	1.5	1.5	1.5	1.8	0.7	1.1	0.7	1.1	1.5	1.1
85°	1.1	1.1	1.1	0.7	1.8	0.7	0.7	0.3	0.3	0.7	0.7
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°	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3	676.3
2.5°	677.4	677.1	677.4	677.1	677.1	677.1	677.4	677.4	677.1	677.1	677.8
5°	680.2	680.2	680.2	679.9	679.6	679.6	680.2	680.2	679.2	680.2	680.2
7.5°	686.4	685.3	686.4	684.9	684.3	684.6	684.9	684.3	683.5	683.9	683.9
10°	694.2	693.2	693.2	692.1	691.1	690.3	689.6	687.8	686.1	685.7	684.3
12.5°	703.7	701.9	700.7	698.6	696.8	694.2	692.1	689.3	685.7	683.1	680.7
15°	713.0	710.0	707.6	704.0	700.1	695.7	691.1	686.4	680.7	675.6	671.3
17.5°	720.5	716.5	711.8	706.1	700.4	693.9	687.1	680.2	672.0	665.5	660.5
20°	723.0	717.2	711.2	703.7	696.0	687.1	678.5	669.5	660.2	653.3	647.6
22.5°	719.8	713.0	705.4	697.5	687.5	677.8	667.7	657.4	649.1	639.8	634.4
25°	710.8	702.5	694.2	684.9	675.3	664.5	653.8	642.9	632.9	627.9	621.0
27.5°	692.4	683.5	674.5	664.9	653.8	642.9	631.8	621.4	612.7	606.0	602.0
30°	660.2	649.7	639.3	629.0	619.2	608.1	597.7	589.1	580.5	575.1	571.1
32.5°	610.6	601.3	590.9	580.8	571.8	562.5	553.9	546.4	540.3	536.7	533.8
35°	543.9	534.5	526.6	519.5	512.0	507.9	502.5	498.3	495.7	494.4	493.9
37.5°	459.8	454.5	452.0	450.5	449.1	448.1	448.7	450.5	452.0	454.5	457.4
40°	370.2	374.8	376.2	381.3	386.0	392.0	398.9	406.7	413.2	421.5	427.2
42.5°	288.3	296.8	306.9	317.7	329.2	340.3	354.0	366.6	378.0	388.4	397.4
45°	221.5	234.7	249.9	265.3	280.7	296.8	313.4	328.8	342.5	353.6	363.0
47.5°	172.6	187.4	206.8	225.8	244.5	263.5	281.8	298.0	309.4	320.2	328.5
50°	136.8	153.7	174.9	196.7	217.1	237.3	256.7	271.7	283.3	291.9	298.0
52.5°	105.9	126.0	147.5	170.5	192.4	214.3	232.3	246.3	255.6	263.1	267.8
55°	79.0	98.8	121.7	145.4	167.7	188.8	205.7	217.9	226.2	230.5	232.9
57.5°	57.1	75.0	98.0	121.7	141.8	161.9	175.5	186.6	191.4	193.8	194.9
60°	41.6	58.2	78.6	99.1	118.2	134.3	146.1	153.7	157.3	158.6	158.3
62.5°	30.5	44.8	62.4	79.7	95.2	108.4	117.7	122.7	124.5	125.3	124.2
65°	23.3	34.4	49.5	62.8	74.7	84.4	91.1	94.4	95.5	95.2	94.4
67.5°	17.3	25.9	37.0	47.1	55.6	63.2	66.8	69.6	70.4	69.3	68.2
70°	12.2	19.1	26.9	33.7	40.2	44.5	48.4	48.9	48.9	48.4	47.8
72.5°	8.6	13.2	18.3	23.0	26.9	30.2	31.6	32.6	32.3	31.9	31.3
75°	5.7	8.3	13.2	14.3	17.9	19.1	20.5	20.5	20.9	19.7	19.7
77.5°	3.6	5.7	7.8	9.3	10.8	12.2	12.9	12.9	13.2	12.9	12.9
80°	2.1	3.6	4.3	6.5	6.5	7.5	7.8	8.3	7.5	8.6	7.5
82.5°	1.5	2.1	3.3	3.3	3.9	4.7	4.7	5.0	5.0	4.7	4.7
85°	1.1	1.5	1.8	2.1	2.1	2.5	2.1	2.1	2.5	2.9	2.5
87.5°	0.3	0.7	0.3	0.7	0.7	1.5	1.1	1.1	1.1	1.5	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°	676.3	676.3	676.3	676.3
2.5°	677.1	677.4	677.1	677.1
5°	680.2	679.9	680.2	679.6
7.5°	682.8	682.8	682.5	682.5
10°	682.8	681.3	681.3	681.3
12.5°	677.4	675.6	674.5	673.8
15°	668.1	664.9	663.4	663.1
17.5°	655.9	653.0	651.2	650.1
20°	641.9	639.0	636.8	637.2
22.5°	629.7	626.4	625.0	624.3
25°	617.4	613.5	612.4	611.7
27.5°	597.7	595.6	594.5	593.5
30°	567.6	566.4	564.6	567.2
32.5°	532.7	530.9	529.6	530.6
35°	494.4	493.2	494.4	493.6
37.5°	459.2	460.2	461.6	462.4
40°	431.5	435.4	436.9	437.6
42.5°	403.9	408.5	411.4	413.2
45°	369.7	374.4	377.7	379.8
47.5°	334.6	338.5	341.8	341.3
50°	302.7	304.8	306.3	307.6
52.5°	270.3	270.3	270.7	270.7
55°	233.7	232.9	232.6	232.9
57.5°	193.5	192.8	192.4	191.4
60°	156.8	154.7	153.2	153.2
62.5°	122.7	120.3	119.2	118.8
65°	92.3	91.9	89.8	89.3
67.5°	66.8	65.4	63.9	64.2
70°	47.1	44.8	44.8	44.2
72.5°	30.5	29.5	29.0	29.0
75°	19.1	19.1	18.3	19.7
77.5°	12.6	12.6	12.2	12.6
80°	7.5	7.5	7.5	7.2
82.5°	4.7	5.0	4.7	4.7
85°	2.5	2.9	2.1	3.3
87.5°	1.5	1.8	1.5	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)