

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: P246097

Luminaire Tested: **LSR8B15D010 EC8B159730 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246097  
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 EC8B159730 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1128.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 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

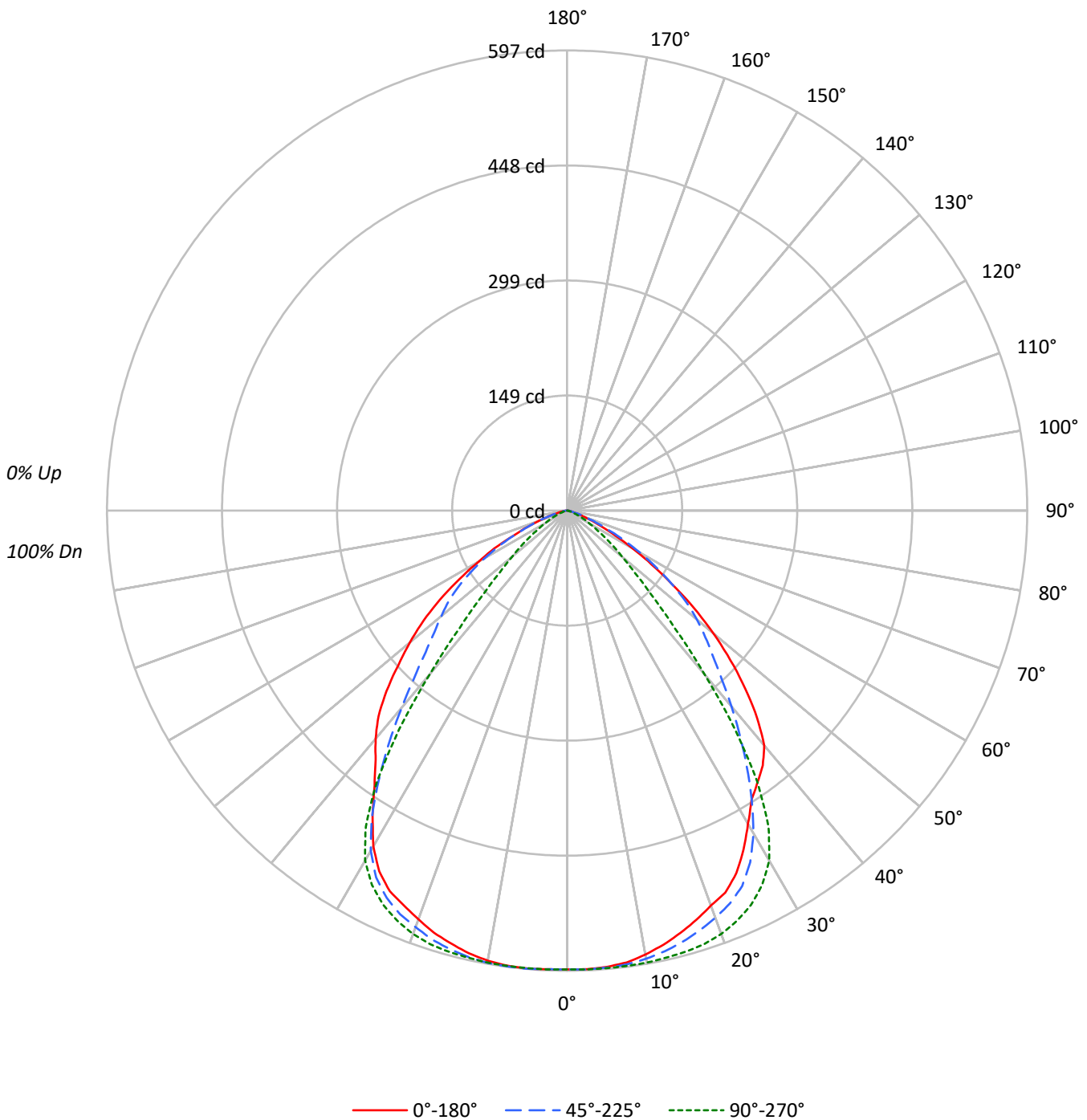
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	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°	56.8	5.0
10°-20°	165.0	14.6
20°-30°	250.4	22.2
30°-40°	263.0	23.3
40°-50°	197.1	17.5
50°-60°	126.5	11.2
60°-70°	54.1	4.8
70°-80°	12.8	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°	472.1	41.9
0°-40°	735.1	65.2
0°-60°	1058.7	93.9
0°-90°	1128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	595	595	595	595	595	
5°	594	595	596	597	596	56
15°	567	579	593	589	581	160
25°	519	537	564	554	545	237
35°	431	407	431	426	435	270
45°	327	267	154	260	332	251
55°	166	166	57	172	202	150
65°	50	59	18	76	77	53
75°	8	9	3	15	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°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2
2.5°	595.5	596.1	595.8	595.8	595.5	595.8	595.8	596.4	596.4	595.8	595.5
5°	594.2	594.8	594.8	594.2	594.2	595.8	594.8	595.5	595.5	595.2	595.2
7.5°	591.3	591.3	592.6	591.6	591.6	592.6	592.3	592.9	593.6	593.9	593.9
10°	584.9	585.6	585.9	585.9	586.2	587.2	587.8	589.1	589.7	590.4	590.7
12.5°	576.9	577.9	578.2	577.9	578.9	580.1	581.7	583.3	584.3	585.6	586.5
15°	567.4	567.4	568.0	569.0	569.6	571.5	573.1	575.0	577.6	579.2	580.8
17.5°	556.8	557.5	558.4	558.4	559.7	562.9	563.8	566.7	569.6	571.2	574.4
20°	545.3	546.0	546.9	547.6	549.2	551.7	553.6	556.2	559.4	562.3	565.4
22.5°	536.4	535.1	535.7	536.4	538.0	540.2	542.4	545.6	548.8	551.7	554.9
25°	519.1	519.4	520.4	521.0	523.0	524.9	527.4	531.3	534.1	537.3	540.8
27.5°	495.8	496.1	497.7	497.7	499.3	502.5	504.1	507.3	511.1	514.3	518.5
30°	469.3	469.9	469.9	471.2	472.2	473.8	475.4	478.6	480.5	483.3	489.1
32.5°	445.0	445.6	445.3	445.0	444.1	443.7	443.4	444.1	444.7	445.6	447.9
35°	430.6	429.0	427.8	425.5	423.0	419.8	416.9	413.1	409.5	406.7	403.5
37.5°	416.9	416.6	414.7	411.5	406.4	400.6	393.9	385.6	377.3	368.3	359.7
40°	397.7	396.8	395.2	390.7	384.9	377.9	369.0	358.8	345.3	331.6	317.5
42.5°	365.1	365.5	363.5	360.0	354.6	347.9	338.6	327.4	313.1	296.8	278.6
45°	327.1	327.1	326.5	323.6	319.8	314.3	307.3	298.1	284.0	267.4	247.9
47.5°	287.5	287.8	286.9	286.2	284.6	281.1	276.0	269.0	259.1	243.1	223.6
50°	247.3	247.3	248.9	248.5	248.5	247.3	245.0	240.9	232.2	219.5	201.3
52.5°	207.0	207.7	208.6	209.9	211.5	214.0	211.5	209.6	204.1	194.2	178.6
55°	165.5	166.1	167.7	170.0	171.9	174.4	175.1	175.1	172.2	165.5	153.7
57.5°	130.0	129.1	130.3	132.3	134.8	137.4	139.3	141.5	141.2	136.7	127.1
60°	97.8	98.1	99.0	101.0	102.9	105.1	107.7	109.6	110.5	108.3	102.2
62.5°	71.2	71.2	72.5	74.4	75.4	78.6	80.2	81.1	82.1	81.8	77.9
65°	49.8	50.5	51.1	52.1	53.0	54.9	55.9	57.8	58.5	58.8	55.9
67.5°	35.1	34.2	34.8	35.5	36.4	37.7	39.6	39.6	40.6	40.6	38.7
70°	22.4	22.4	22.7	23.6	24.3	24.6	25.2	25.9	26.8	26.5	26.5
72.5°	15.0	14.7	15.0	15.3	15.7	16.6	16.6	16.9	17.6	17.9	16.6
75°	7.7	8.0	8.6	8.3	9.3	8.6	8.9	9.9	9.6	8.9	8.9
77.5°	6.4	6.4	6.4	6.1	6.7	6.7	6.4	7.0	6.7	6.7	6.4
80°	4.5	4.8	4.5	4.2	4.5	4.2	4.2	4.2	4.2	4.2	3.8
82.5°	3.5	2.9	3.2	2.9	3.2	3.2	2.9	2.6	2.6	2.9	2.6
85°	2.6	1.9	2.2	2.2	1.9	1.9	1.9	1.9	1.9	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	0.6
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°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2
2.5°	596.1	595.8	596.4	596.1	596.1	595.8	596.1	595.8	596.4	595.2	595.5
5°	596.1	595.5	595.8	596.1	596.4	595.8	595.8	595.8	596.4	595.8	596.1
7.5°	594.8	594.5	595.5	596.1	595.8	595.5	596.1	595.8	596.4	596.1	596.7
10°	592.3	592.6	593.2	594.2	594.5	594.8	595.5	595.5	596.4	595.2	595.8
12.5°	588.4	589.7	591.3	592.0	593.2	593.2	593.9	594.2	594.8	594.5	595.5
15°	583.7	585.3	587.2	588.8	590.4	591.3	592.3	592.6	593.6	592.6	592.9
17.5°	577.9	579.8	582.7	584.6	587.2	588.1	589.4	590.0	591.0	590.4	590.7
20°	569.9	572.2	575.3	578.2	579.8	582.1	583.7	584.6	585.3	584.6	584.9
22.5°	558.7	561.9	566.1	568.3	571.5	573.4	573.8	576.0	577.6	576.0	576.6
25°	545.6	548.8	552.0	556.8	559.7	561.9	564.2	564.5	566.1	565.8	565.4
27.5°	523.9	528.1	533.5	537.3	541.2	544.7	547.2	547.9	549.5	548.8	549.2
30°	494.2	498.7	503.8	509.9	515.3	518.8	522.0	524.2	525.8	524.9	524.6
32.5°	452.0	456.5	461.9	468.0	474.4	479.5	483.3	486.2	488.1	487.5	485.9
35°	403.8	405.1	408.6	413.4	418.8	424.2	427.8	430.9	433.2	433.8	433.8
37.5°	354.3	350.1	347.6	347.6	350.8	353.0	356.2	358.1	361.6	362.9	363.9
40°	306.4	296.8	287.8	281.1	276.7	276.3	276.3	277.3	280.5	284.6	288.5
42.5°	263.6	248.2	234.5	222.0	213.1	208.0	205.7	206.1	208.6	212.4	218.8
45°	229.4	210.2	193.0	177.9	165.8	157.8	154.0	153.7	155.6	160.0	167.1
47.5°	202.9	182.4	162.9	145.7	132.6	123.9	119.5	118.2	119.5	123.6	131.9
50°	180.8	159.7	139.6	121.7	107.7	98.7	94.6	93.0	94.6	98.1	106.4
52.5°	160.4	138.6	119.8	102.5	87.5	79.9	75.4	74.4	75.4	79.5	86.3
55°	136.7	118.2	99.7	82.4	69.3	61.7	58.1	57.2	58.1	62.0	69.0
57.5°	113.4	97.4	81.1	65.5	54.3	47.6	44.4	43.1	45.4	47.9	56.2
60°	91.7	78.9	65.2	51.4	42.2	36.1	33.5	33.2	33.9	37.1	42.8
62.5°	71.9	61.3	50.5	39.3	31.6	29.1	25.9	25.6	26.2	28.1	32.6
65°	51.8	45.0	36.7	28.7	22.7	19.2	17.9	18.2	18.8	20.1	24.3
67.5°	36.1	31.3	25.6	20.1	15.7	14.1	12.8	12.5	12.8	15.0	17.3
70°	24.3	21.4	17.3	15.3	10.9	8.6	8.9	8.0	9.3	9.3	11.2
72.5°	16.0	14.1	11.5	8.9	7.7	6.1	6.1	5.8	6.4	6.7	8.3
75°	8.3	6.4	6.4	4.5	3.2	1.6	2.9	2.6	2.2	2.6	3.2
77.5°	5.8	4.8	4.5	3.5	3.2	2.6	2.6	2.6	2.6	2.9	3.2
80°	3.5	3.5	2.6	2.2	1.9	1.6	1.9	1.9	1.9	1.9	2.2
82.5°	2.2	1.9	1.9	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.9
85°	1.9	1.3	1.3	1.0	1.3	2.2	1.0	1.3	1.3	1.3	1.0
87.5°	0.6	1.0	1.0	1.0	0.6	0.3	0.6	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°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2
2.5°	596.1	596.4	596.4	596.1	596.1	595.5	596.7	595.8	596.1	597.4	596.4
5°	596.7	597.1	597.1	596.7	596.7	596.7	597.1	597.1	596.7	596.4	597.1
7.5°	598.0	597.7	597.7	597.1	597.1	596.4	597.1	596.1	596.7	596.1	597.1
10°	596.4	596.7	596.4	596.1	596.1	595.8	595.8	594.8	595.2	594.2	594.8
12.5°	595.5	595.2	595.2	594.5	593.9	593.2	592.9	592.0	592.0	589.7	590.7
15°	592.9	593.2	592.3	591.0	590.4	588.8	588.1	586.8	585.6	584.0	584.3
17.5°	590.7	589.7	588.4	587.2	584.6	583.3	582.1	580.1	579.5	577.6	576.9
20°	584.0	583.3	581.7	579.5	577.9	575.0	573.8	571.8	570.2	568.3	567.4
22.5°	575.3	574.7	572.8	570.6	568.0	566.7	565.4	561.9	560.3	558.4	558.1
25°	564.5	563.5	561.6	559.1	557.8	554.3	553.0	550.4	549.8	547.9	547.6
27.5°	547.9	546.6	544.4	541.2	538.9	536.7	535.4	533.5	532.9	530.9	530.6
30°	523.0	521.4	516.9	515.6	511.8	509.5	509.5	507.0	507.3	506.0	506.0
32.5°	483.7	481.1	477.6	475.0	472.5	471.2	471.2	470.2	470.9	470.9	471.5
35°	431.6	428.1	426.2	424.6	424.6	425.8	429.7	430.6	432.6	434.1	435.4
37.5°	364.8	364.5	366.7	368.7	373.5	378.9	385.6	391.3	396.8	400.6	404.4
40°	292.6	300.6	307.0	316.0	323.3	333.8	346.0	355.9	365.1	371.9	378.9
42.5°	228.4	238.6	252.1	265.2	278.3	292.6	308.6	322.3	334.5	343.7	351.1
45°	177.9	192.0	208.3	224.9	241.8	259.7	276.3	290.4	303.2	312.8	320.1
47.5°	143.4	158.8	177.3	195.5	214.7	233.5	252.1	264.2	274.7	282.4	289.1
50°	118.5	134.8	154.3	175.1	194.2	213.1	229.1	240.9	249.5	256.2	260.4
52.5°	99.0	116.3	137.0	157.8	177.0	194.2	208.6	217.6	224.6	229.4	233.2
55°	81.8	98.4	117.9	137.4	156.2	172.5	184.3	191.0	196.5	199.3	201.6
57.5°	66.8	82.1	100.0	117.9	134.2	147.6	156.9	163.6	166.1	168.4	168.0
60°	52.4	66.8	83.1	98.4	112.5	123.3	130.0	133.9	135.8	136.7	136.1
62.5°	41.2	54.3	66.8	80.2	90.4	99.7	106.1	106.1	107.0	107.3	108.3
65°	30.7	40.6	51.4	61.3	69.6	75.7	79.2	80.2	81.5	81.1	80.5
67.5°	22.7	30.0	38.0	45.4	51.1	54.9	57.5	59.7	59.4	58.8	58.5
70°	15.7	20.4	27.5	31.9	36.1	39.9	40.6	40.9	41.2	41.5	40.9
72.5°	10.9	14.4	18.2	22.0	24.6	26.2	27.8	28.1	28.1	28.1	27.8
75°	5.4	7.3	10.9	12.5	14.7	15.3	16.6	16.6	17.6	16.3	16.0
77.5°	4.8	5.8	7.7	8.9	9.9	10.9	11.2	12.1	11.8	11.2	11.5
80°	2.9	3.5	4.8	5.4	6.7	7.0	7.3	7.7	7.3	7.7	7.7
82.5°	2.2	2.6	3.2	3.2	4.2	4.2	4.5	4.5	4.8	4.8	4.8
85°	1.3	2.2	1.9	3.8	2.6	2.6	3.2	3.8	3.2	3.2	3.8
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	1.9	1.9	2.2	1.9
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°	595.2	595.2	595.2	595.2
2.5°	596.1	596.7	595.8	595.5
5°	597.1	597.1	596.4	596.4
7.5°	597.1	597.1	596.1	595.5
10°	594.5	594.5	593.6	592.9
12.5°	589.7	589.7	589.4	588.4
15°	583.7	583.7	582.4	581.4
17.5°	575.3	576.0	574.4	574.4
20°	566.4	566.1	564.8	564.2
22.5°	557.1	556.5	556.2	554.3
25°	547.2	546.6	545.6	544.7
27.5°	530.3	530.0	529.0	527.8
30°	504.4	504.1	502.8	502.8
32.5°	470.9	470.6	469.3	469.6
35°	436.1	437.3	436.7	435.4
37.5°	407.0	408.0	408.6	408.0
40°	382.7	385.6	385.9	386.6
42.5°	356.8	360.7	362.0	362.6
45°	325.8	329.4	332.2	331.6
47.5°	294.2	296.8	299.3	297.4
50°	263.9	265.5	266.4	266.4
52.5°	235.1	235.1	234.8	235.1
55°	202.2	202.2	200.9	201.6
57.5°	167.7	168.4	167.4	165.8
60°	135.8	134.2	133.5	132.6
62.5°	105.7	105.7	103.5	106.4
65°	79.2	78.3	77.3	77.0
67.5°	57.5	57.2	56.2	55.9
70°	40.6	39.3	39.0	38.3
72.5°	27.2	27.2	26.5	26.5
75°	16.6	15.0	14.7	15.0
77.5°	11.5	11.2	11.2	10.9
80°	7.7	7.3	8.0	7.0
82.5°	4.8	5.1	4.8	5.1
85°	3.2	3.8	3.5	3.5
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)