

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: P244651

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244651  
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 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1226.3 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

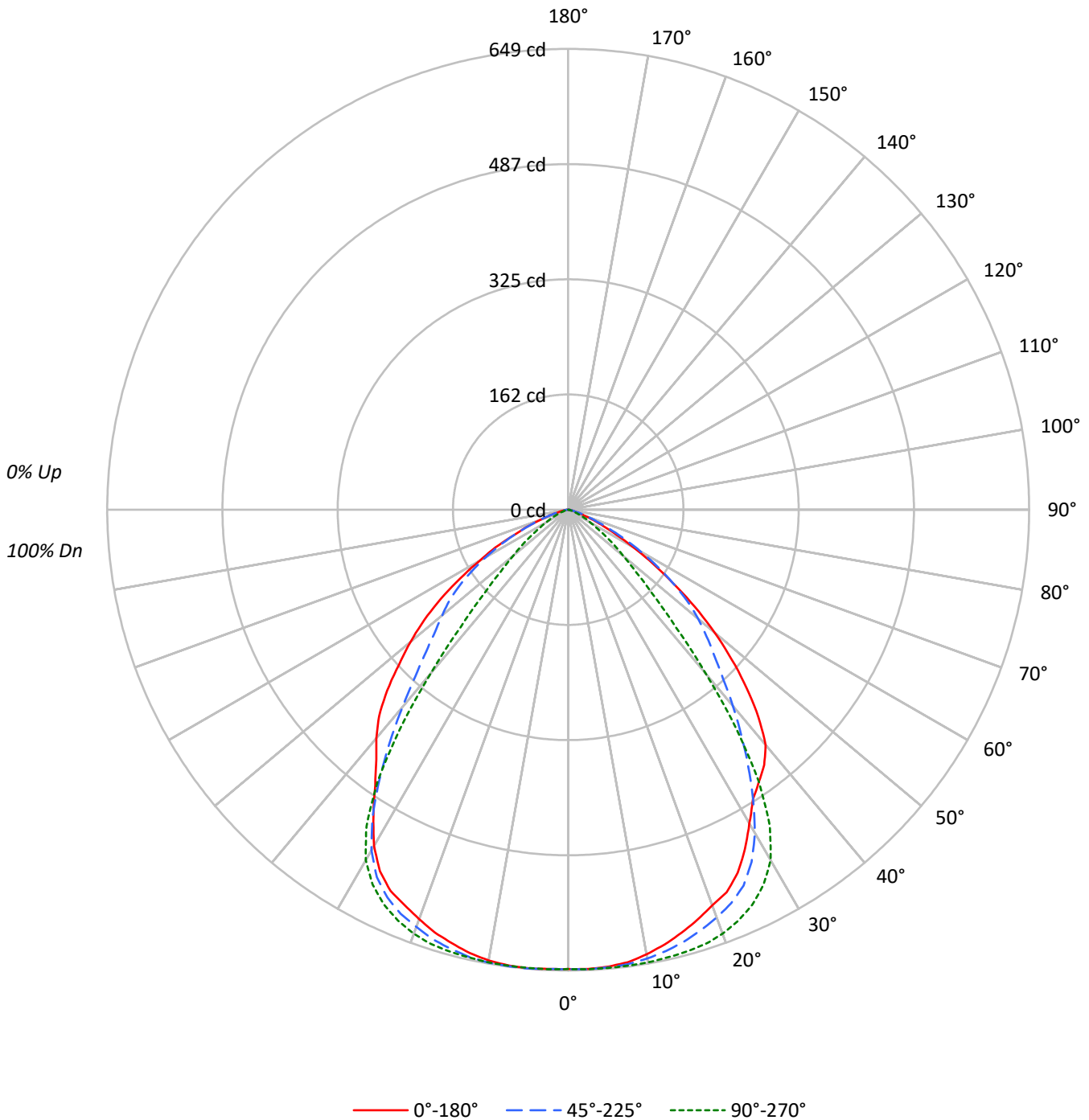
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	61.7	5.0
10°-20°	179.3	14.6
20°-30°	272.2	22.2
30°-40°	285.9	23.3
40°-50°	214.3	17.5
50°-60°	137.5	11.2
60°-70°	58.8	4.8
70°-80°	13.9	1.1
80°-90°	2.6	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°	513.2	41.9
0°-40°	799.1	65.2
0°-60°	1150.9	93.9
0°-90°	1226.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	647	647	647	647	647	
5°	646	647	648	649	648	61
15°	617	630	644	640	632	174
25°	564	584	614	603	592	258
35°	468	442	468	463	473	294
45°	356	291	167	282	360	272
55°	180	180	62	188	219	163
65°	54	64	20	82	84	58
75°	8	10	3	17	16	12
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°	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
2.5°	647.3	648.0	647.7	647.7	647.3	647.7	647.7	648.3	648.3	647.7	647.3
5°	646.0	646.6	646.6	646.0	646.0	647.7	646.6	647.3	647.3	647.0	647.0
7.5°	642.8	642.8	644.2	643.2	643.2	644.2	643.8	644.5	645.3	645.6	645.6
10°	635.8	636.5	637.0	637.0	637.3	638.3	639.0	640.4	641.1	641.8	642.2
12.5°	627.2	628.2	628.5	628.2	629.3	630.7	632.4	634.2	635.2	636.5	637.6
15°	616.7	616.7	617.5	618.5	619.2	621.3	623.0	625.2	627.9	629.7	631.4
17.5°	605.4	606.0	607.1	607.1	608.4	611.9	613.0	616.1	619.2	621.0	624.4
20°	592.9	593.6	594.6	595.2	597.0	599.7	601.9	604.6	608.1	611.2	614.7
22.5°	583.1	581.7	582.4	583.1	584.9	587.2	589.7	593.2	596.6	599.7	603.2
25°	564.3	564.6	565.8	566.4	568.5	570.6	573.4	577.6	580.6	584.1	587.9
27.5°	539.0	539.3	541.1	541.1	542.8	546.3	548.0	551.5	555.6	559.1	563.6
30°	510.2	510.9	510.9	512.2	513.3	515.0	516.7	520.2	522.3	525.5	531.7
32.5°	483.8	484.4	484.1	483.8	482.7	482.4	482.1	482.7	483.4	484.4	486.9
35°	468.1	466.4	465.1	462.6	459.8	456.3	453.3	449.0	445.3	442.1	438.6
37.5°	453.3	452.8	450.8	447.3	441.8	435.5	428.2	419.2	410.2	400.4	391.0
40°	432.3	431.3	429.6	424.7	418.5	410.8	401.1	390.0	375.4	360.4	345.2
42.5°	396.9	397.2	395.2	391.4	385.5	378.2	368.1	356.0	340.3	322.7	302.8
45°	355.6	355.6	354.9	351.8	347.6	341.8	334.1	324.0	308.7	290.7	269.4
47.5°	312.5	312.9	311.8	311.2	309.4	305.7	300.0	292.4	281.7	264.3	243.1
50°	268.8	268.8	270.6	270.2	270.2	268.8	266.4	261.9	252.4	238.6	218.8
52.5°	225.0	225.8	226.8	228.2	230.0	232.6	230.0	227.8	222.0	211.2	194.2
55°	179.9	180.6	182.4	184.7	186.9	189.7	190.4	190.4	187.2	179.9	167.1
57.5°	141.3	140.3	141.8	143.8	146.6	149.3	151.4	153.9	153.5	148.6	138.3
60°	106.3	106.6	107.7	109.8	111.8	114.3	117.0	119.1	120.2	117.8	111.2
62.5°	77.4	77.4	78.9	80.9	82.0	85.4	87.2	88.2	89.2	88.9	84.7
65°	54.2	54.9	55.6	56.6	57.6	59.7	60.8	62.9	63.6	63.9	60.8
67.5°	38.2	37.1	37.9	38.6	39.6	40.9	43.1	43.1	44.1	44.1	42.1
70°	24.3	24.3	24.6	25.6	26.4	26.8	27.4	28.1	29.1	28.8	28.8
72.5°	16.3	16.0	16.3	16.7	17.0	18.1	18.1	18.4	19.1	19.5	18.1
75°	8.3	8.7	9.3	9.0	10.1	9.3	9.7	10.8	10.5	9.7	9.7
77.5°	7.0	7.0	7.0	6.6	7.3	7.3	7.0	7.6	7.3	7.3	7.0
80°	4.8	5.2	4.8	4.5	4.8	4.5	4.5	4.5	4.5	4.5	4.2
82.5°	3.8	3.2	3.5	3.2	3.5	3.5	3.2	2.8	2.8	3.2	2.8
85°	2.8	2.1	2.5	2.5	2.1	2.1	2.1	2.1	2.1	1.7	1.7
87.5°	1.7	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	0.7
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°	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
2.5°	648.0	647.7	648.3	648.0	648.0	647.7	648.0	647.7	648.3	647.0	647.3
5°	648.0	647.3	647.7	648.0	648.3	647.7	647.7	647.7	648.3	647.7	648.0
7.5°	646.6	646.3	647.3	648.0	647.7	647.3	648.0	647.7	648.3	648.0	648.7
10°	643.8	644.2	645.0	646.0	646.3	646.6	647.3	647.3	648.3	647.0	647.7
12.5°	639.7	641.1	642.8	643.5	645.0	645.0	645.6	646.0	646.6	646.3	647.3
15°	634.5	636.2	638.3	640.0	641.8	642.8	643.8	644.2	645.3	644.2	644.5
17.5°	628.2	630.3	633.5	635.5	638.3	639.3	640.7	641.5	642.5	641.8	642.2
20°	619.5	622.0	625.5	628.5	630.3	632.7	634.5	635.5	636.2	635.5	635.8
22.5°	607.4	610.9	615.4	617.8	621.3	623.4	623.7	626.2	627.9	626.2	626.8
25°	593.2	596.6	600.1	605.4	608.4	610.9	613.4	613.7	615.4	615.0	614.7
27.5°	569.6	574.1	579.9	584.1	588.3	592.1	594.9	595.6	597.4	596.6	597.0
30°	537.3	542.1	547.6	554.3	560.1	564.0	567.4	569.9	571.6	570.6	570.3
32.5°	491.4	496.2	502.2	508.7	515.7	521.3	525.5	528.5	530.7	530.0	528.2
35°	439.0	440.3	444.2	449.4	455.3	461.2	465.1	468.4	470.9	471.6	471.6
37.5°	385.1	380.6	377.9	377.9	381.3	383.7	387.2	389.2	393.1	394.5	395.6
40°	333.0	322.7	312.9	305.7	300.7	300.4	300.4	301.4	304.9	309.4	313.7
42.5°	286.5	269.9	254.9	241.3	231.6	226.1	223.6	224.0	226.8	231.0	237.9
45°	249.3	228.5	209.8	193.4	180.2	171.6	167.4	167.1	169.1	174.0	181.7
47.5°	220.5	198.3	177.1	158.4	144.1	134.8	129.9	128.5	129.9	134.4	143.4
50°	196.5	173.7	151.8	132.3	117.0	107.3	102.8	101.0	102.8	106.6	115.6
52.5°	174.4	150.8	130.3	111.5	95.2	86.9	82.0	80.9	82.0	86.5	93.8
55°	148.6	128.5	108.3	89.6	75.4	67.0	63.2	62.2	63.2	67.4	75.0
57.5°	123.3	106.0	88.2	71.2	59.1	51.8	48.3	46.9	49.3	52.1	61.1
60°	99.7	85.8	70.9	55.9	45.9	39.3	36.4	36.1	36.8	40.3	46.6
62.5°	78.2	66.7	54.9	42.8	34.4	31.6	28.1	27.8	28.5	30.6	35.4
65°	56.2	48.9	39.9	31.3	24.6	20.8	19.5	19.8	20.5	21.8	26.4
67.5°	39.3	34.1	27.8	21.8	17.0	15.3	13.8	13.5	13.8	16.3	18.8
70°	26.4	23.3	18.8	16.7	11.8	9.3	9.7	8.7	10.1	10.1	12.2
72.5°	17.3	15.3	12.5	9.7	8.3	6.6	6.6	6.3	7.0	7.3	9.0
75°	9.0	7.0	7.0	4.8	3.5	1.7	3.2	2.8	2.5	2.8	3.5
77.5°	6.3	5.2	4.8	3.8	3.5	2.8	2.8	2.8	2.8	3.2	3.5
80°	3.8	3.8	2.8	2.5	2.1	1.7	2.1	2.1	2.1	2.1	2.5
82.5°	2.5	2.1	2.1	1.7	1.7	1.3	1.3	1.3	1.3	1.3	2.1
85°	2.1	1.3	1.3	1.0	1.3	2.5	1.0	1.3	1.3	1.3	1.0
87.5°	0.7	1.0	1.0	1.0	0.7	0.3	0.7	1.0	1.0	1.7	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°	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
2.5°	648.0	648.3	648.3	648.0	648.0	647.3	648.7	647.7	648.0	649.5	648.3
5°	648.7	649.1	649.1	648.7	648.7	648.7	649.1	649.1	648.7	648.3	649.1
7.5°	650.1	649.8	649.8	649.1	649.1	648.3	649.1	648.0	648.7	648.0	649.1
10°	648.3	648.7	648.3	648.0	648.0	647.7	647.7	646.6	647.0	646.0	646.6
12.5°	647.3	647.0	647.0	646.3	645.6	645.0	644.5	643.5	643.5	641.1	642.2
15°	644.5	645.0	643.8	642.5	641.8	640.0	639.3	638.0	636.5	634.8	635.2
17.5°	642.2	641.1	639.7	638.3	635.5	634.2	632.7	630.7	630.0	627.9	627.2
20°	634.8	634.2	632.4	630.0	628.2	625.2	623.7	621.7	619.9	617.8	616.7
22.5°	625.5	624.7	622.7	620.2	617.5	616.1	614.7	610.9	609.2	607.1	606.7
25°	613.7	612.6	610.5	607.7	606.4	602.6	601.2	598.4	597.7	595.6	595.2
27.5°	595.6	594.2	591.8	588.3	585.9	583.4	582.1	579.9	579.3	577.2	576.9
30°	568.5	566.8	561.9	560.5	556.3	553.9	553.9	551.1	551.5	550.1	550.1
32.5°	525.8	523.0	519.2	516.4	513.7	512.2	512.2	511.2	511.9	511.9	512.6
35°	469.2	465.4	463.3	461.6	461.6	462.9	467.1	468.1	470.2	471.9	473.4
37.5°	396.6	396.2	398.7	400.7	406.0	411.9	419.2	425.5	431.3	435.5	439.6
40°	318.2	326.8	333.8	343.5	351.4	362.9	376.1	386.9	396.9	404.2	411.9
42.5°	248.3	259.4	274.0	288.2	302.5	318.2	335.5	350.4	363.6	373.7	381.7
45°	193.4	208.7	226.5	244.5	262.9	282.4	300.4	315.7	329.6	340.0	348.0
47.5°	155.9	172.6	192.7	212.5	233.3	253.9	274.0	287.2	298.7	307.0	314.3
50°	128.8	146.6	167.7	190.4	211.2	231.6	249.0	261.9	271.2	278.6	283.0
52.5°	107.7	126.4	149.0	171.6	192.4	211.2	226.8	236.5	244.1	249.3	253.5
55°	88.9	107.0	128.1	149.3	169.9	187.5	200.4	207.7	213.5	216.7	219.2
57.5°	72.6	89.2	108.7	128.1	145.9	160.4	170.5	177.9	180.6	183.0	182.7
60°	56.9	72.6	90.3	107.0	122.3	134.1	141.3	145.5	147.6	148.6	147.9
62.5°	44.8	59.1	72.6	87.2	98.3	108.3	115.3	115.3	116.3	116.7	117.8
65°	33.3	44.1	55.9	66.7	75.7	82.4	86.2	87.2	88.5	88.2	87.5
67.5°	24.6	32.6	41.3	49.3	55.6	59.7	62.6	64.9	64.6	63.9	63.6
70°	17.0	22.3	29.8	34.8	39.3	43.4	44.1	44.4	44.8	45.1	44.4
72.5°	11.8	15.6	19.8	24.0	26.8	28.5	30.3	30.6	30.6	30.6	30.3
75°	5.9	8.0	11.8	13.5	16.0	16.7	18.1	18.1	19.1	17.7	17.3
77.5°	5.2	6.3	8.3	9.7	10.8	11.8	12.2	13.2	12.8	12.2	12.5
80°	3.2	3.8	5.2	5.9	7.3	7.6	8.0	8.3	8.0	8.3	8.3
82.5°	2.5	2.8	3.5	3.5	4.5	4.5	4.8	4.8	5.2	5.2	5.2
85°	1.3	2.5	2.1	4.2	2.8	2.8	3.5	4.2	3.5	3.5	4.2
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.7	2.1	2.1	2.5	2.1
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°	647.0	647.0	647.0	647.0
2.5°	648.0	648.7	647.7	647.3
5°	649.1	649.1	648.3	648.3
7.5°	649.1	649.1	648.0	647.3
10°	646.3	646.3	645.3	644.5
12.5°	641.1	641.1	640.7	639.7
15°	634.5	634.5	633.2	632.0
17.5°	625.5	626.2	624.4	624.4
20°	615.7	615.4	614.0	613.4
22.5°	605.7	605.0	604.6	602.6
25°	594.9	594.2	593.2	592.1
27.5°	576.4	576.1	575.1	573.8
30°	548.3	548.0	546.6	546.6
32.5°	511.9	511.5	510.2	510.5
35°	474.1	475.4	474.8	473.4
37.5°	442.5	443.5	444.2	443.5
40°	416.0	419.2	419.5	420.2
42.5°	387.9	392.1	393.5	394.2
45°	354.3	358.1	361.1	360.4
47.5°	319.8	322.7	325.3	323.3
50°	286.9	288.6	289.7	289.7
52.5°	255.6	255.6	255.3	255.6
55°	219.8	219.8	218.5	219.2
57.5°	182.4	183.0	182.0	180.2
60°	147.6	145.9	145.1	144.1
62.5°	115.0	115.0	112.5	115.6
65°	86.2	85.0	84.0	83.7
67.5°	62.6	62.2	61.1	60.8
70°	44.1	42.8	42.4	41.6
72.5°	29.5	29.5	28.8	28.8
75°	18.1	16.3	16.0	16.3
77.5°	12.5	12.2	12.2	11.8
80°	8.3	8.0	8.7	7.6
82.5°	5.2	5.5	5.2	5.5
85°	3.5	4.2	3.8	3.8
87.5°	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)