

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: P246240

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246240  
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: LSR8B10D010 EC8B109730 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 842.0 lumens  
Efficiency: N/A  
Efficacy: 82.5 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

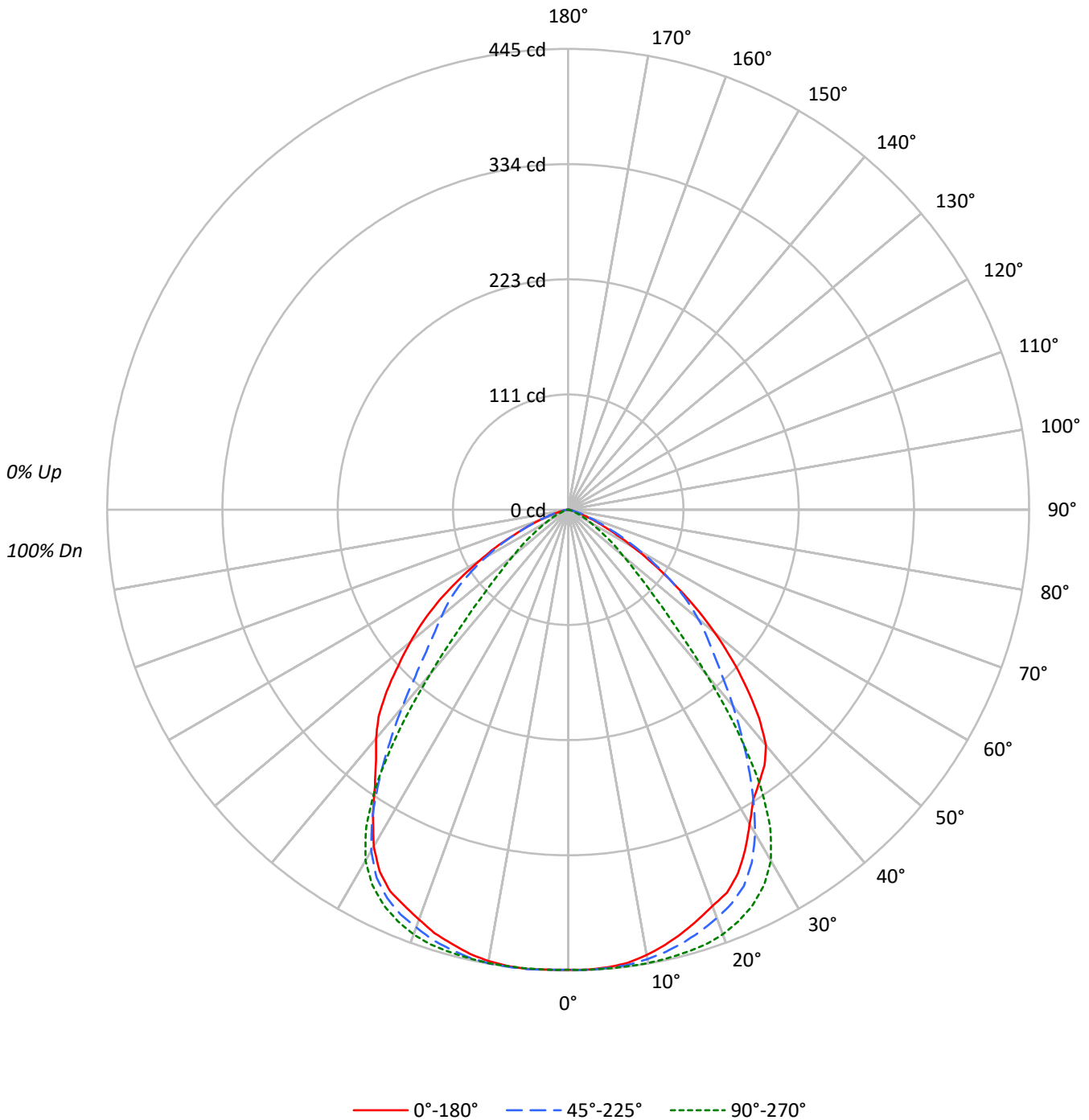
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	42.4	5.0
10°-20°	123.1	14.6
20°-30°	186.9	22.2
30°-40°	196.3	23.3
40°-50°	147.2	17.5
50°-60°	94.4	11.2
60°-70°	40.4	4.8
70°-80°	9.5	1.1
80°-90°	1.8	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°	352.4	41.9
0°-40°	548.7	65.2
0°-60°	790.3	93.9
0°-90°	842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	842.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	444	444	445	445	445	42
15°	424	432	442	440	434	119
25°	388	401	421	414	407	177
35°	322	304	322	318	325	202
45°	244	200	115	194	248	187
55°	124	124	43	129	150	112
65°	37	44	14	56	58	40
75°	6	7	2	11	11	8
85°	2	1	1	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°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	444.5	445.0	444.7	444.7	444.5	444.7	444.7	445.2	445.2	444.7	444.5
5°	443.5	444.0	444.0	443.5	443.5	444.7	444.0	444.5	444.5	444.3	444.3
7.5°	441.4	441.4	442.3	441.6	441.6	442.3	442.1	442.6	443.1	443.3	443.3
10°	436.6	437.1	437.3	437.3	437.6	438.3	438.8	439.7	440.2	440.7	440.9
12.5°	430.7	431.4	431.6	431.4	432.1	433.0	434.2	435.4	436.2	437.1	437.8
15°	423.5	423.5	424.0	424.7	425.2	426.6	427.8	429.2	431.1	432.3	433.5
17.5°	415.6	416.1	416.8	416.8	417.8	420.2	420.9	423.0	425.2	426.4	428.8
20°	407.1	407.5	408.2	408.7	409.9	411.8	413.3	415.2	417.5	419.7	422.1
22.5°	400.4	399.4	399.9	400.4	401.6	403.2	404.9	407.3	409.7	411.8	414.2
25°	387.5	387.7	388.5	388.9	390.4	391.8	393.7	396.6	398.7	401.1	403.7
27.5°	370.1	370.3	371.5	371.5	372.7	375.1	376.3	378.7	381.5	383.9	387.0
30°	350.3	350.8	350.8	351.7	352.4	353.6	354.8	357.2	358.6	360.8	365.1
32.5°	332.2	332.7	332.4	332.2	331.5	331.2	331.0	331.5	331.9	332.7	334.3
35°	321.5	320.3	319.3	317.6	315.7	313.3	311.2	308.3	305.7	303.6	301.2
37.5°	311.2	311.0	309.5	307.1	303.3	299.0	294.0	287.8	281.6	274.9	268.5
40°	296.9	296.2	295.0	291.6	287.3	282.1	275.4	267.8	257.8	247.5	237.0
42.5°	272.6	272.8	271.4	268.7	264.7	259.7	252.8	244.4	233.7	221.5	207.9
45°	244.2	244.2	243.7	241.6	238.7	234.6	229.4	222.5	212.0	199.6	185.0
47.5°	214.6	214.9	214.1	213.7	212.5	209.8	206.0	200.8	193.4	181.5	166.9
50°	184.6	184.6	185.8	185.5	185.5	184.6	182.9	179.8	173.4	163.8	150.2
52.5°	154.5	155.0	155.7	156.7	157.9	159.8	157.9	156.4	152.4	145.0	133.3
55°	123.5	124.0	125.2	126.9	128.3	130.2	130.7	130.7	128.5	123.5	114.7
57.5°	97.1	96.3	97.3	98.7	100.6	102.5	104.0	105.6	105.4	102.1	94.9
60°	73.0	73.2	73.9	75.4	76.8	78.5	80.4	81.8	82.5	80.8	76.3
62.5°	53.2	53.2	54.1	55.6	56.3	58.7	59.9	60.6	61.3	61.0	58.2
65°	37.2	37.7	38.2	38.9	39.6	41.0	41.7	43.2	43.6	43.9	41.7
67.5°	26.2	25.5	26.0	26.5	27.2	28.1	29.6	29.6	30.3	30.3	28.9
70°	16.7	16.7	16.9	17.6	18.1	18.4	18.8	19.3	20.0	19.8	19.8
72.5°	11.2	11.0	11.2	11.4	11.7	12.4	12.4	12.6	13.1	13.4	12.4
75°	5.7	6.0	6.4	6.2	6.9	6.4	6.7	7.4	7.2	6.7	6.7
77.5°	4.8	4.8	4.8	4.5	5.0	5.0	4.8	5.2	5.0	5.0	4.8
80°	3.3	3.6	3.3	3.1	3.3	3.1	3.1	3.1	3.1	3.1	2.9
82.5°	2.6	2.1	2.4	2.1	2.4	2.4	2.1	1.9	1.9	2.1	1.9
85°	1.9	1.4	1.7	1.7	1.4	1.4	1.4	1.4	1.4	1.2	1.2
87.5°	1.2	0.7	0.7	0.7	1.0	1.0	1.0	0.7	1.0	1.0	0.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	445.0	444.7	445.2	445.0	445.0	444.7	445.0	444.7	445.2	444.3	444.5
5°	445.0	444.5	444.7	445.0	445.2	444.7	444.7	444.7	445.2	444.7	445.0
7.5°	444.0	443.8	444.5	445.0	444.7	444.5	445.0	444.7	445.2	445.0	445.4
10°	442.1	442.3	442.8	443.5	443.8	444.0	444.5	444.5	445.2	444.3	444.7
12.5°	439.2	440.2	441.4	441.9	442.8	442.8	443.3	443.5	444.0	443.8	444.5
15°	435.7	436.9	438.3	439.5	440.7	441.4	442.1	442.3	443.1	442.3	442.6
17.5°	431.4	432.8	435.0	436.4	438.3	439.0	440.0	440.4	441.2	440.7	440.9
20°	425.4	427.1	429.5	431.6	432.8	434.5	435.7	436.4	436.9	436.4	436.6
22.5°	417.1	419.5	422.6	424.2	426.6	428.0	428.3	429.9	431.1	429.9	430.4
25°	407.3	409.7	412.1	415.6	417.8	419.5	421.1	421.4	422.6	422.3	422.1
27.5°	391.1	394.2	398.2	401.1	404.0	406.6	408.5	409.0	410.2	409.7	409.9
30°	368.9	372.2	376.1	380.6	384.6	387.3	389.6	391.3	392.5	391.8	391.6
32.5°	337.4	340.8	344.8	349.3	354.1	357.9	360.8	362.9	364.4	363.9	362.7
35°	301.4	302.4	305.0	308.6	312.6	316.7	319.3	321.7	323.4	323.8	323.8
37.5°	264.5	261.4	259.5	259.5	261.8	263.5	265.9	267.3	269.9	270.9	271.6
40°	228.7	221.5	214.9	209.8	206.5	206.3	206.3	207.0	209.4	212.5	215.3
42.5°	196.7	185.3	175.0	165.7	159.1	155.2	153.6	153.8	155.7	158.6	163.3
45°	171.2	156.9	144.0	132.8	123.8	117.8	114.9	114.7	116.1	119.5	124.7
47.5°	151.4	136.2	121.6	108.7	99.0	92.5	89.2	88.2	89.2	92.3	98.5
50°	135.0	119.2	104.2	90.9	80.4	73.7	70.6	69.4	70.6	73.2	79.4
52.5°	119.7	103.5	89.4	76.5	65.3	59.6	56.3	55.6	56.3	59.4	64.4
55°	102.1	88.2	74.4	61.5	51.7	46.0	43.4	42.7	43.4	46.3	51.5
57.5°	84.7	72.7	60.6	48.9	40.5	35.5	33.1	32.2	33.9	35.8	42.0
60°	68.4	58.9	48.6	38.4	31.5	26.9	25.0	24.8	25.3	27.7	32.0
62.5°	53.7	45.8	37.7	29.3	23.6	21.7	19.3	19.1	19.6	21.0	24.3
65°	38.6	33.6	27.4	21.5	16.9	14.3	13.4	13.6	14.1	15.0	18.1
67.5°	26.9	23.4	19.1	15.0	11.7	10.5	9.5	9.3	9.5	11.2	12.9
70°	18.1	16.0	12.9	11.4	8.1	6.4	6.7	6.0	6.9	6.9	8.3
72.5°	11.9	10.5	8.6	6.7	5.7	4.5	4.5	4.3	4.8	5.0	6.2
75°	6.2	4.8	4.8	3.3	2.4	1.2	2.1	1.9	1.7	1.9	2.4
77.5°	4.3	3.6	3.3	2.6	2.4	1.9	1.9	1.9	1.9	2.1	2.4
80°	2.6	2.6	1.9	1.7	1.4	1.2	1.4	1.4	1.4	1.4	1.7
82.5°	1.7	1.4	1.4	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.4
85°	1.4	1.0	1.0	0.7	1.0	1.7	0.7	1.0	1.0	1.0	0.7
87.5°	0.5	0.7	0.7	0.7	0.5	0.2	0.5	0.7	0.7	1.2	1.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	445.0	445.2	445.2	445.0	445.0	444.5	445.4	444.7	445.0	445.9	445.2
5°	445.4	445.7	445.7	445.4	445.4	445.4	445.7	445.7	445.4	445.2	445.7
7.5°	446.4	446.2	446.2	445.7	445.7	445.2	445.7	445.0	445.4	445.0	445.7
10°	445.2	445.4	445.2	445.0	445.0	444.7	444.7	444.0	444.3	443.5	444.0
12.5°	444.5	444.3	444.3	443.8	443.3	442.8	442.6	441.9	441.9	440.2	440.9
15°	442.6	442.8	442.1	441.2	440.7	439.5	439.0	438.1	437.1	435.9	436.2
17.5°	440.9	440.2	439.2	438.3	436.4	435.4	434.5	433.0	432.6	431.1	430.7
20°	435.9	435.4	434.2	432.6	431.4	429.2	428.3	426.9	425.7	424.2	423.5
22.5°	429.5	429.0	427.6	425.9	424.0	423.0	422.1	419.5	418.3	416.8	416.6
25°	421.4	420.6	419.2	417.3	416.4	413.7	412.8	410.9	410.4	409.0	408.7
27.5°	409.0	408.0	406.3	404.0	402.3	400.6	399.7	398.2	397.8	396.3	396.1
30°	390.4	389.2	385.8	384.9	382.0	380.3	380.3	378.4	378.7	377.7	377.7
32.5°	361.0	359.1	356.5	354.6	352.7	351.7	351.7	351.0	351.5	351.5	352.0
35°	322.2	319.5	318.1	316.9	316.9	317.9	320.7	321.5	322.9	324.1	325.0
37.5°	272.3	272.1	273.8	275.2	278.8	282.8	287.8	292.1	296.2	299.0	301.9
40°	218.4	224.4	229.2	235.8	241.3	249.2	258.3	265.6	272.6	277.6	282.8
42.5°	170.5	178.1	188.1	197.9	207.7	218.4	230.4	240.6	249.7	256.6	262.1
45°	132.8	143.3	155.5	167.9	180.5	193.9	206.3	216.8	226.3	233.5	238.9
47.5°	107.1	118.5	132.3	145.9	160.2	174.3	188.1	197.2	205.1	210.8	215.8
50°	88.5	100.6	115.2	130.7	145.0	159.1	171.0	179.8	186.2	191.2	194.3
52.5°	73.9	86.8	102.3	117.8	132.1	145.0	155.7	162.4	167.6	171.2	174.1
55°	61.0	73.4	88.0	102.5	116.6	128.8	137.6	142.6	146.7	148.8	150.5
57.5°	49.8	61.3	74.6	88.0	100.2	110.2	117.1	122.1	124.0	125.7	125.4
60°	39.1	49.8	62.0	73.4	83.9	92.0	97.1	99.9	101.3	102.1	101.6
62.5°	30.8	40.5	49.8	59.9	67.5	74.4	79.2	79.2	79.9	80.1	80.8
65°	22.9	30.3	38.4	45.8	52.0	56.5	59.1	59.9	60.8	60.6	60.1
67.5°	16.9	22.4	28.4	33.9	38.2	41.0	42.9	44.6	44.4	43.9	43.6
70°	11.7	15.3	20.5	23.8	26.9	29.8	30.3	30.5	30.8	31.0	30.5
72.5°	8.1	10.7	13.6	16.5	18.4	19.6	20.7	21.0	21.0	21.0	20.7
75°	4.1	5.5	8.1	9.3	11.0	11.4	12.4	12.4	13.1	12.2	11.9
77.5°	3.6	4.3	5.7	6.7	7.4	8.1	8.3	9.1	8.8	8.3	8.6
80°	2.1	2.6	3.6	4.1	5.0	5.2	5.5	5.7	5.5	5.7	5.7
82.5°	1.7	1.9	2.4	2.4	3.1	3.1	3.3	3.3	3.6	3.6	3.6
85°	1.0	1.7	1.4	2.9	1.9	1.9	2.4	2.9	2.4	2.4	2.9
87.5°	1.0	1.0	0.7	1.0	1.0	1.0	1.2	1.4	1.4	1.7	1.4
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°	444.3	444.3	444.3	444.3
2.5°	445.0	445.4	444.7	444.5
5°	445.7	445.7	445.2	445.2
7.5°	445.7	445.7	445.0	444.5
10°	443.8	443.8	443.1	442.6
12.5°	440.2	440.2	440.0	439.2
15°	435.7	435.7	434.7	434.0
17.5°	429.5	429.9	428.8	428.8
20°	422.8	422.6	421.6	421.1
22.5°	415.9	415.4	415.2	413.7
25°	408.5	408.0	407.3	406.6
27.5°	395.9	395.6	394.9	393.9
30°	376.5	376.3	375.3	375.3
32.5°	351.5	351.3	350.3	350.5
35°	325.5	326.5	326.0	325.0
37.5°	303.8	304.5	305.0	304.5
40°	285.7	287.8	288.1	288.5
42.5°	266.4	269.2	270.2	270.7
45°	243.2	245.9	248.0	247.5
47.5°	219.6	221.5	223.4	222.0
50°	197.0	198.2	198.9	198.9
52.5°	175.5	175.5	175.3	175.5
55°	150.9	150.9	150.0	150.5
57.5°	125.2	125.7	125.0	123.8
60°	101.3	100.2	99.7	99.0
62.5°	78.9	78.9	77.3	79.4
65°	59.1	58.4	57.7	57.5
67.5°	42.9	42.7	42.0	41.7
70°	30.3	29.3	29.1	28.6
72.5°	20.3	20.3	19.8	19.8
75°	12.4	11.2	11.0	11.2
77.5°	8.6	8.3	8.3	8.1
80°	5.7	5.5	6.0	5.2
82.5°	3.6	3.8	3.6	3.8
85°	2.4	2.9	2.6	2.6
87.5°	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)