

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 EC8B10930 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 EC8B10930 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: 943.9 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

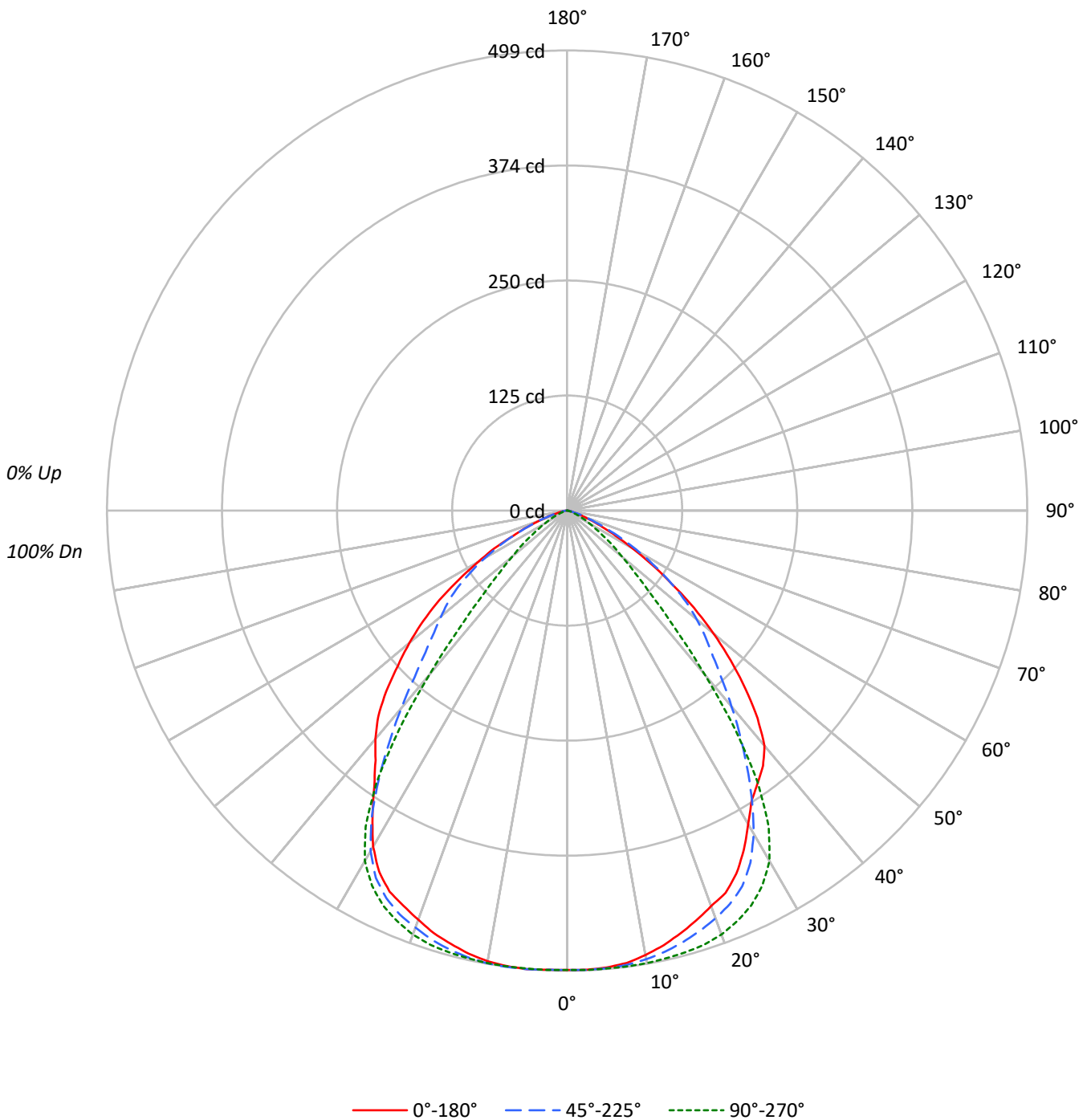
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	47.5	5.0
10°-20°	138.0	14.6
20°-30°	209.5	22.2
30°-40°	220.0	23.3
40°-50°	165.0	17.5
50°-60°	105.8	11.2
60°-70°	45.3	4.8
70°-80°	10.7	1.1
80°-90°	2.0	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°	395.1	41.9
0°-40°	615.1	65.2
0°-60°	885.9	93.9
0°-90°	943.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	498	498	498	498	498	
5°	497	498	498	499	499	47
15°	475	485	496	493	486	134
25°	434	450	472	464	456	198
35°	360	340	361	356	364	226
45°	274	224	129	217	277	210
55°	138	138	48	144	169	126
65°	42	49	15	63	64	45
75°	6	8	2	13	13	9
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°	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1
2.5°	498.3	498.8	498.5	498.5	498.3	498.5	498.5	499.1	499.1	498.5	498.3
5°	497.2	497.7	497.7	497.2	497.2	498.5	497.7	498.3	498.3	498.1	498.1
7.5°	494.8	494.8	495.8	495.0	495.0	495.8	495.6	496.2	496.7	496.9	496.9
10°	489.4	490.0	490.2	490.2	490.5	491.3	491.9	492.9	493.5	494.0	494.2
12.5°	482.8	483.6	483.8	483.6	484.4	485.4	486.7	488.1	489.0	490.0	490.8
15°	474.7	474.7	475.3	476.1	476.6	478.2	479.6	481.1	483.3	484.6	486.0
17.5°	465.9	466.4	467.2	467.2	468.4	471.0	471.8	474.2	476.6	478.0	480.7
20°	456.4	456.8	457.6	458.2	459.5	461.6	463.3	465.4	468.0	470.5	473.2
22.5°	448.8	447.7	448.3	448.8	450.2	452.0	453.9	456.6	459.3	461.6	464.3
25°	434.4	434.6	435.5	436.0	437.6	439.2	441.3	444.6	446.9	449.6	452.5
27.5°	414.9	415.1	416.5	416.5	417.8	420.5	421.8	424.5	427.7	430.4	433.8
30°	392.7	393.2	393.2	394.3	395.0	396.4	397.7	400.4	402.0	404.5	409.3
32.5°	372.4	373.0	372.6	372.4	371.6	371.3	371.1	371.6	372.1	373.0	374.8
35°	360.4	359.1	357.9	356.0	353.9	351.2	348.9	345.6	342.7	340.3	337.6
37.5°	348.9	348.6	346.9	344.3	340.0	335.2	329.6	322.6	315.7	308.2	301.0
40°	332.8	332.0	330.7	326.9	322.1	316.2	308.7	300.2	289.0	277.4	265.7
42.5°	305.6	305.8	304.2	301.2	296.7	291.1	283.4	274.0	262.0	248.3	233.1
45°	273.7	273.7	273.2	270.8	267.6	263.0	257.2	249.4	237.7	223.8	207.4
47.5°	240.6	240.9	240.0	239.6	238.2	235.2	230.9	225.1	216.8	203.5	187.1
50°	206.9	206.9	208.3	207.9	207.9	206.9	205.0	201.6	194.4	183.6	168.4
52.5°	173.2	173.8	174.5	175.7	177.0	179.1	177.0	175.3	170.8	162.5	149.4
55°	138.4	139.0	140.3	142.3	143.8	146.0	146.5	146.5	144.0	138.4	128.6
57.5°	108.8	108.0	109.1	110.6	112.8	114.9	116.6	118.4	118.2	114.5	106.4
60°	81.8	82.1	82.8	84.5	86.1	88.0	90.1	91.7	92.5	90.6	85.5
62.5°	59.6	59.6	60.6	62.3	63.1	65.8	67.1	67.9	68.7	68.4	65.2
65°	41.7	42.3	42.8	43.6	44.4	46.0	46.7	48.4	48.9	49.2	46.7
67.5°	29.4	28.6	29.1	29.7	30.5	31.5	33.2	33.2	34.0	34.0	32.4
70°	18.7	18.7	18.9	19.7	20.3	20.6	21.1	21.6	22.4	22.2	22.2
72.5°	12.6	12.3	12.6	12.8	13.1	13.9	13.9	14.1	14.7	15.0	13.9
75°	6.4	6.7	7.2	7.0	7.7	7.2	7.5	8.3	8.1	7.5	7.5
77.5°	5.4	5.4	5.4	5.0	5.6	5.6	5.4	5.8	5.6	5.6	5.4
80°	3.7	4.0	3.7	3.5	3.7	3.5	3.5	3.5	3.5	3.5	3.3
82.5°	2.9	2.4	2.7	2.4	2.7	2.7	2.4	2.1	2.1	2.4	2.1
85°	2.1	1.6	1.9	1.9	1.6	1.6	1.6	1.6	1.6	1.3	1.3
87.5°	1.3	0.8	0.8	0.8	1.1	1.1	1.1	0.8	1.1	1.1	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°	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1
2.5°	498.8	498.5	499.1	498.8	498.8	498.5	498.8	498.5	499.1	498.1	498.3
5°	498.8	498.3	498.5	498.8	499.1	498.5	498.5	498.5	499.1	498.5	498.8
7.5°	497.7	497.5	498.3	498.8	498.5	498.3	498.8	498.5	499.1	498.8	499.3
10°	495.6	495.8	496.4	497.2	497.5	497.7	498.3	498.3	499.1	498.1	498.5
12.5°	492.3	493.5	494.8	495.4	496.4	496.4	496.9	497.2	497.7	497.5	498.3
15°	488.4	489.8	491.3	492.7	494.0	494.8	495.6	495.8	496.7	495.8	496.2
17.5°	483.6	485.2	487.6	489.2	491.3	492.1	493.2	493.7	494.6	494.0	494.2
20°	476.9	478.8	481.5	483.8	485.2	487.1	488.4	489.2	489.8	489.2	489.4
22.5°	467.6	470.3	473.7	475.5	478.2	479.8	480.1	481.9	483.3	481.9	482.5
25°	456.6	459.3	462.0	465.9	468.4	470.3	472.1	472.4	473.7	473.4	473.2
27.5°	438.4	441.9	446.4	449.6	452.9	455.8	457.9	458.5	459.8	459.3	459.5
30°	413.5	417.2	421.6	426.7	431.1	434.2	436.7	438.6	440.0	439.2	439.0
32.5°	378.2	382.0	386.5	391.6	396.9	401.2	404.5	406.8	408.5	407.9	406.6
35°	337.9	339.0	341.9	345.9	350.4	355.0	357.9	360.6	362.5	363.0	363.0
37.5°	296.5	293.0	290.9	290.9	293.5	295.4	298.1	299.6	302.6	303.7	304.5
40°	256.4	248.3	240.9	235.2	231.5	231.3	231.3	232.0	234.7	238.2	241.4
42.5°	220.5	207.7	196.2	185.7	178.4	174.0	172.2	172.4	174.5	177.8	183.1
45°	191.9	175.9	161.4	148.9	138.8	132.1	128.8	128.6	130.1	134.0	139.8
47.5°	169.7	152.7	136.3	121.9	111.0	103.7	100.0	98.9	100.0	103.5	110.4
50°	151.3	133.6	116.8	101.9	90.1	82.6	79.1	77.8	79.1	82.1	89.0
52.5°	134.2	116.0	100.2	85.8	73.2	66.8	63.1	62.3	63.1	66.6	72.2
55°	114.5	98.9	83.4	68.9	58.0	51.6	48.7	47.9	48.7	51.9	57.7
57.5°	94.9	81.5	67.9	54.8	45.4	39.8	37.1	36.1	38.0	40.1	47.1
60°	76.7	66.0	54.5	43.0	35.3	30.2	28.0	27.8	28.4	31.1	35.9
62.5°	60.2	51.3	42.3	32.8	26.5	24.3	21.6	21.4	22.0	23.5	27.2
65°	43.3	37.7	30.7	24.1	18.9	16.0	15.0	15.2	15.8	16.8	20.3
67.5°	30.2	26.2	21.4	16.8	13.1	11.8	10.6	10.4	10.6	12.6	14.5
70°	20.3	17.9	14.5	12.8	9.1	7.2	7.5	6.7	7.7	7.7	9.3
72.5°	13.3	11.8	9.6	7.5	6.4	5.0	5.0	4.8	5.4	5.6	7.0
75°	7.0	5.4	5.4	3.7	2.7	1.3	2.4	2.1	1.9	2.1	2.7
77.5°	4.8	4.0	3.7	2.9	2.7	2.1	2.1	2.1	2.1	2.4	2.7
80°	2.9	2.9	2.1	1.9	1.6	1.3	1.6	1.6	1.6	1.6	1.9
82.5°	1.9	1.6	1.6	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.6
85°	1.6	1.1	1.1	0.8	1.1	1.9	0.8	1.1	1.1	1.1	0.8
87.5°	0.6	0.8	0.8	0.8	0.6	0.2	0.6	0.8	0.8	1.3	1.1
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1
2.5°	498.8	499.1	499.1	498.8	498.8	498.3	499.3	498.5	498.8	499.9	499.1
5°	499.3	499.6	499.6	499.3	499.3	499.3	499.6	499.6	499.3	499.1	499.6
7.5°	500.4	500.2	500.2	499.6	499.6	499.1	499.6	498.8	499.3	498.8	499.6
10°	499.1	499.3	499.1	498.8	498.8	498.5	498.5	497.7	498.1	497.2	497.7
12.5°	498.3	498.1	498.1	497.5	496.9	496.4	496.2	495.4	495.4	493.5	494.2
15°	496.2	496.4	495.6	494.6	494.0	492.7	492.1	491.1	490.0	488.6	489.0
17.5°	494.2	493.5	492.3	491.3	489.2	488.1	487.1	485.4	484.9	483.3	482.8
20°	488.6	488.1	486.7	484.9	483.6	481.1	480.1	478.6	477.2	475.5	474.7
22.5°	481.5	480.9	479.3	477.4	475.3	474.2	473.2	470.3	468.9	467.2	467.0
25°	472.4	471.5	469.9	467.8	466.8	463.8	462.7	460.6	460.1	458.5	458.2
27.5°	458.5	457.4	455.5	452.9	451.0	449.1	448.1	446.4	445.9	444.3	444.0
30°	437.6	436.3	432.5	431.5	428.2	426.3	426.3	424.2	424.5	423.4	423.4
32.5°	404.7	402.6	399.6	397.5	395.4	394.3	394.3	393.5	394.0	394.0	394.6
35°	361.2	358.2	356.6	355.2	355.2	356.4	359.5	360.4	362.0	363.3	364.3
37.5°	305.2	305.0	306.9	308.5	312.5	317.0	322.6	327.4	332.0	335.2	338.4
40°	244.8	251.6	256.9	264.3	270.5	279.4	289.6	297.7	305.6	311.2	317.0
42.5°	191.1	199.7	210.9	221.8	232.8	244.8	258.3	269.7	279.9	287.6	293.8
45°	148.9	160.6	174.3	188.2	202.3	217.4	231.3	243.0	253.7	261.8	267.8
47.5°	120.1	132.8	148.3	163.6	179.6	195.4	210.9	221.1	229.9	236.3	241.9
50°	99.2	112.8	129.1	146.5	162.5	178.4	191.7	201.6	208.7	214.3	217.8
52.5°	82.8	97.3	114.7	132.1	148.1	162.5	174.5	182.1	187.9	191.9	195.2
55°	68.4	82.3	98.6	114.9	130.7	144.4	154.2	159.9	164.5	166.8	168.7
57.5°	55.8	68.7	83.6	98.6	112.3	123.5	131.3	136.9	139.0	140.9	140.6
60°	43.8	55.8	69.5	82.3	94.1	103.1	108.8	112.0	113.6	114.5	113.9
62.5°	34.5	45.4	55.8	67.1	75.7	83.4	88.8	88.8	89.6	89.8	90.6
65°	25.7	34.0	43.0	51.3	58.3	63.3	66.3	67.1	68.2	67.9	67.4
67.5°	18.9	25.1	31.8	38.0	42.8	46.0	48.1	50.0	49.8	49.2	48.9
70°	13.1	17.2	23.0	26.7	30.2	33.4	34.0	34.2	34.5	34.8	34.2
72.5°	9.1	12.0	15.2	18.5	20.6	22.0	23.2	23.5	23.5	23.5	23.2
75°	4.6	6.2	9.1	10.4	12.3	12.8	13.9	13.9	14.7	13.7	13.3
77.5°	4.0	4.8	6.4	7.5	8.3	9.1	9.3	10.2	9.9	9.3	9.6
80°	2.4	2.9	4.0	4.6	5.6	5.8	6.2	6.4	6.2	6.4	6.4
82.5°	1.9	2.1	2.7	2.7	3.5	3.5	3.7	3.7	4.0	4.0	4.0
85°	1.1	1.9	1.6	3.3	2.1	2.1	2.7	3.3	2.7	2.7	3.3
87.5°	1.1	1.1	0.8	1.1	1.1	1.1	1.3	1.6	1.6	1.9	1.6
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):**

	165°	170°	175°	180°
0°	498.1	498.1	498.1	498.1
2.5°	498.8	499.3	498.5	498.3
5°	499.6	499.6	499.1	499.1
7.5°	499.6	499.6	498.8	498.3
10°	497.5	497.5	496.7	496.2
12.5°	493.5	493.5	493.2	492.3
15°	488.4	488.4	487.3	486.5
17.5°	481.5	481.9	480.7	480.7
20°	474.0	473.7	472.6	472.1
22.5°	466.2	465.7	465.4	463.8
25°	457.9	457.4	456.6	455.8
27.5°	443.8	443.5	442.7	441.6
30°	422.1	421.8	420.7	420.7
32.5°	394.0	393.8	392.7	392.9
35°	364.9	366.0	365.4	364.3
37.5°	340.6	341.3	341.9	341.3
40°	320.3	322.6	323.0	323.4
42.5°	298.6	301.8	302.9	303.5
45°	272.6	275.7	278.0	277.4
47.5°	246.2	248.3	250.4	248.9
50°	220.8	222.2	223.0	223.0
52.5°	196.7	196.7	196.5	196.7
55°	169.2	169.2	168.2	168.7
57.5°	140.3	140.9	140.1	138.8
60°	113.6	112.3	111.8	111.0
62.5°	88.4	88.4	86.7	89.0
65°	66.3	65.5	64.7	64.5
67.5°	48.1	47.9	47.1	46.7
70°	34.0	32.8	32.6	32.1
72.5°	22.8	22.8	22.2	22.2
75°	13.9	12.6	12.3	12.6
77.5°	9.6	9.3	9.3	9.1
80°	6.4	6.2	6.7	5.8
82.5°	4.0	4.3	4.0	4.3
85°	2.7	3.3	2.9	2.9
87.5°	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)