

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 EC8B159727 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 EC8B159727 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: 1090.0 lumens  
Efficiency: N/A  
Efficacy: 75.7 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

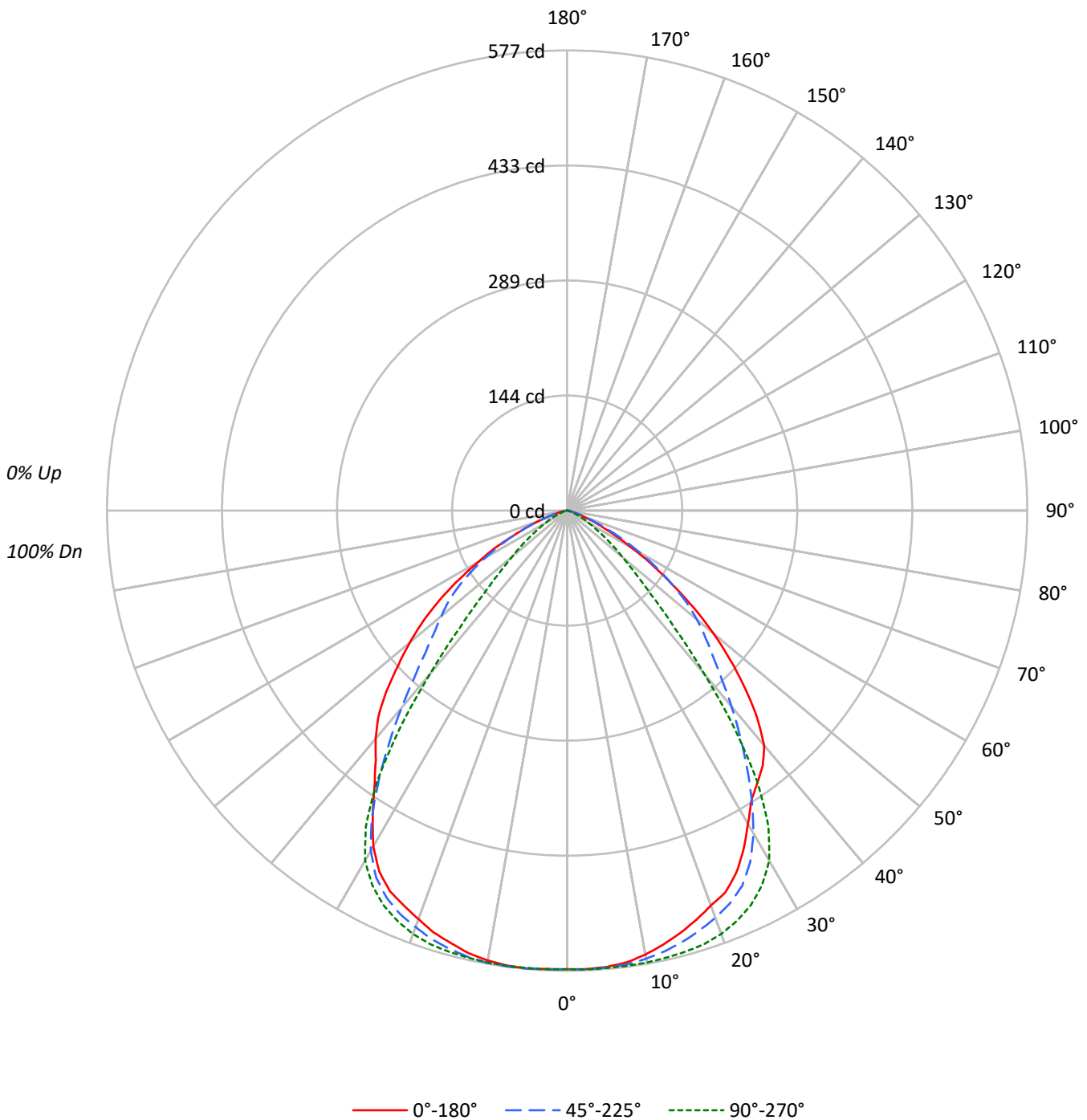
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	54.9	5.0
10°-20°	159.4	14.6
20°-30°	241.9	22.2
30°-40°	254.1	23.3
40°-50°	190.5	17.5
50°-60°	122.2	11.2
60°-70°	52.3	4.8
70°-80°	12.4	1.1
80°-90°	2.3	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°	456.2	41.9
0°-40°	710.3	65.2
0°-60°	1023.1	93.9
0°-90°	1090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	575	575	575	575	575	
5°	574	575	576	577	576	55
15°	548	560	573	569	562	155
25°	502	519	546	536	526	229
35°	416	393	416	412	421	261
45°	316	258	148	251	320	242
55°	160	160	55	167	195	145
65°	48	57	18	73	74	51
75°	7	9	2	15	14	11
85°	2	2	1	2	3	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°	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1
2.5°	575.4	576.0	575.7	575.7	575.4	575.7	575.7	576.3	576.3	575.7	575.4
5°	574.2	574.8	574.8	574.2	574.2	575.7	574.8	575.4	575.4	575.1	575.1
7.5°	571.4	571.4	572.6	571.7	571.7	572.6	572.3	572.9	573.6	573.9	573.9
10°	565.2	565.8	566.2	566.2	566.5	567.4	568.0	569.2	569.9	570.5	570.8
12.5°	557.5	558.4	558.7	558.4	559.4	560.6	562.1	563.7	564.6	565.8	566.8
15°	548.2	548.2	548.9	549.8	550.4	552.3	553.8	555.7	558.1	559.7	561.2
17.5°	538.1	538.7	539.6	539.6	540.8	543.9	544.9	547.6	550.4	552.0	555.0
20°	527.0	527.6	528.5	529.1	530.7	533.1	535.0	537.4	540.5	543.3	546.4
22.5°	518.3	517.1	517.7	518.3	519.9	522.0	524.2	527.3	530.3	533.1	536.2
25°	501.6	501.9	502.9	503.5	505.3	507.2	509.7	513.4	516.1	519.2	522.6
27.5°	479.1	479.4	481.0	481.0	482.5	485.6	487.1	490.2	493.9	497.0	501.0
30°	453.5	454.1	454.1	455.3	456.3	457.8	459.3	462.4	464.3	467.1	472.6
32.5°	430.0	430.6	430.3	430.0	429.1	428.8	428.5	429.1	429.7	430.6	432.8
35°	416.1	414.6	413.4	411.2	408.7	405.6	402.9	399.1	395.8	393.0	389.9
37.5°	402.9	402.5	400.7	397.6	392.7	387.1	380.6	372.6	364.6	355.9	347.6
40°	384.3	383.4	381.9	377.5	372.0	365.2	356.5	346.7	333.7	320.4	306.8
42.5°	352.8	353.1	351.3	347.9	342.7	336.2	327.2	316.4	302.5	286.8	269.2
45°	316.1	316.1	315.5	312.7	309.0	303.8	297.0	288.0	274.4	258.4	239.5
47.5°	277.8	278.1	277.2	276.6	275.0	271.7	266.7	259.9	250.4	234.9	216.1
50°	238.9	238.9	240.5	240.2	240.2	238.9	236.8	232.8	224.4	212.1	194.5
52.5°	200.0	200.7	201.6	202.8	204.4	206.8	204.4	202.5	197.3	187.7	172.6
55°	159.9	160.5	162.1	164.2	166.1	168.6	169.2	169.2	166.4	159.9	148.5
57.5°	125.6	124.7	126.0	127.8	130.3	132.7	134.6	136.8	136.4	132.1	122.9
60°	94.5	94.8	95.7	97.6	99.4	101.6	104.0	105.9	106.8	104.7	98.8
62.5°	68.8	68.8	70.1	71.9	72.9	75.9	77.5	78.4	79.3	79.0	75.3
65°	48.2	48.8	49.4	50.3	51.2	53.1	54.0	55.9	56.5	56.8	54.0
67.5°	34.0	33.0	33.7	34.3	35.2	36.4	38.3	38.3	39.2	39.2	37.4
70°	21.6	21.6	21.9	22.8	23.5	23.8	24.4	25.0	25.9	25.6	25.6
72.5°	14.5	14.2	14.5	14.8	15.1	16.1	16.1	16.4	17.0	17.3	16.1
75°	7.4	7.7	8.3	8.0	9.0	8.3	8.6	9.6	9.3	8.6	8.6
77.5°	6.2	6.2	6.2	5.9	6.5	6.5	6.2	6.8	6.5	6.5	6.2
80°	4.3	4.6	4.3	4.0	4.3	4.0	4.0	4.0	4.0	4.0	3.7
82.5°	3.4	2.8	3.1	2.8	3.1	3.1	2.8	2.5	2.5	2.8	2.5
85°	2.5	1.9	2.2	2.2	1.9	1.9	1.9	1.9	1.9	1.5	1.5
87.5°	1.5	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	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°	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1
2.5°	576.0	575.7	576.3	576.0	576.0	575.7	576.0	575.7	576.3	575.1	575.4
5°	576.0	575.4	575.7	576.0	576.3	575.7	575.7	575.7	576.3	575.7	576.0
7.5°	574.8	574.5	575.4	576.0	575.7	575.4	576.0	575.7	576.3	576.0	576.6
10°	572.3	572.6	573.3	574.2	574.5	574.8	575.4	575.4	576.3	575.1	575.7
12.5°	568.6	569.9	571.4	572.0	573.3	573.3	573.9	574.2	574.8	574.5	575.4
15°	564.0	565.5	567.4	568.9	570.5	571.4	572.3	572.6	573.6	572.6	572.9
17.5°	558.4	560.3	563.1	564.9	567.4	568.3	569.5	570.2	571.1	570.5	570.8
20°	550.7	552.9	556.0	558.7	560.3	562.4	564.0	564.9	565.5	564.9	565.2
22.5°	539.9	543.0	547.0	549.2	552.3	554.1	554.4	556.6	558.1	556.6	557.2
25°	527.3	530.3	533.4	538.1	540.8	543.0	545.2	545.5	547.0	546.7	546.4
27.5°	506.3	510.3	515.5	519.2	522.9	526.3	528.8	529.4	531.0	530.3	530.7
30°	477.6	481.9	486.8	492.7	497.9	501.3	504.4	506.6	508.1	507.2	506.9
32.5°	436.8	441.1	446.4	452.2	458.4	463.4	467.1	469.8	471.7	471.1	469.5
35°	390.2	391.4	394.8	399.5	404.7	410.0	413.4	416.4	418.6	419.2	419.2
37.5°	342.3	338.3	335.9	335.9	338.9	341.1	344.2	346.0	349.4	350.7	351.6
40°	296.0	286.8	278.1	271.7	267.3	267.0	267.0	267.9	271.0	275.0	278.8
42.5°	254.7	239.9	226.6	214.5	205.9	201.0	198.8	199.1	201.6	205.3	211.5
45°	221.6	203.1	186.5	171.9	160.2	152.5	148.8	148.5	150.3	154.7	161.5
47.5°	196.0	176.3	157.4	140.8	128.1	119.8	115.5	114.2	115.5	119.5	127.5
50°	174.7	154.4	134.9	117.6	104.0	95.4	91.4	89.8	91.4	94.8	102.8
52.5°	155.0	134.0	115.8	99.1	84.6	77.2	72.9	71.9	72.9	76.9	83.4
55°	132.1	114.2	96.3	79.6	67.0	59.6	56.2	55.3	56.2	59.9	66.7
57.5°	109.6	94.2	78.4	63.3	52.5	46.0	42.9	41.7	43.8	46.3	54.3
60°	88.6	76.3	63.0	49.7	40.8	34.9	32.4	32.1	32.7	35.8	41.4
62.5°	69.5	59.3	48.8	38.0	30.6	28.1	25.0	24.7	25.3	27.2	31.5
65°	50.0	43.5	35.5	27.8	21.9	18.5	17.3	17.6	18.2	19.4	23.5
67.5°	34.9	30.3	24.7	19.4	15.1	13.6	12.3	12.0	12.3	14.5	16.7
70°	23.5	20.7	16.7	14.8	10.5	8.3	8.6	7.7	9.0	9.0	10.8
72.5°	15.4	13.6	11.1	8.6	7.4	5.9	5.9	5.6	6.2	6.5	8.0
75°	8.0	6.2	6.2	4.3	3.1	1.5	2.8	2.5	2.2	2.5	3.1
77.5°	5.6	4.6	4.3	3.4	3.1	2.5	2.5	2.5	2.5	2.8	3.1
80°	3.4	3.4	2.5	2.2	1.9	1.5	1.9	1.9	1.9	1.9	2.2
82.5°	2.2	1.9	1.9	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.9
85°	1.9	1.2	1.2	0.9	1.2	2.2	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.5	1.2
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°	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1
2.5°	576.0	576.3	576.3	576.0	576.0	575.4	576.6	575.7	576.0	577.3	576.3
5°	576.6	577.0	577.0	576.6	576.6	576.6	577.0	577.0	576.6	576.3	577.0
7.5°	577.9	577.6	577.6	577.0	577.0	576.3	577.0	576.0	576.6	576.0	577.0
10°	576.3	576.6	576.3	576.0	576.0	575.7	575.7	574.8	575.1	574.2	574.8
12.5°	575.4	575.1	575.1	574.5	573.9	573.3	572.9	572.0	572.0	569.9	570.8
15°	572.9	573.3	572.3	571.1	570.5	568.9	568.3	567.1	565.8	564.3	564.6
17.5°	570.8	569.9	568.6	567.4	564.9	563.7	562.4	560.6	560.0	558.1	557.5
20°	564.3	563.7	562.1	560.0	558.4	555.7	554.4	552.6	551.0	549.2	548.2
22.5°	556.0	555.3	553.5	551.3	548.9	547.6	546.4	543.0	541.5	539.6	539.3
25°	545.5	544.5	542.7	540.2	539.0	535.6	534.4	531.9	531.3	529.4	529.1
27.5°	529.4	528.2	526.0	522.9	520.8	518.6	517.4	515.5	514.9	513.1	512.8
30°	505.3	503.8	499.5	498.2	494.5	492.4	492.4	489.9	490.2	489.0	489.0
32.5°	467.4	464.9	461.5	459.0	456.6	455.3	455.3	454.4	455.0	455.0	455.6
35°	417.1	413.7	411.8	410.3	410.3	411.5	415.2	416.1	418.0	419.5	420.8
37.5°	352.5	352.2	354.4	356.2	360.9	366.1	372.6	378.2	383.4	387.1	390.8
40°	282.8	290.5	296.7	305.3	312.4	322.6	334.3	343.9	352.8	359.3	366.1
42.5°	220.7	230.6	243.6	256.2	268.9	282.8	298.2	311.5	323.2	332.2	339.3
45°	171.9	185.5	201.3	217.3	233.7	251.0	267.0	280.6	293.0	302.2	309.3
47.5°	138.6	153.4	171.3	188.9	207.4	225.7	243.6	255.3	265.5	272.9	279.4
50°	114.5	130.3	149.1	169.2	187.7	205.9	221.3	232.8	241.1	247.6	251.6
52.5°	95.7	112.4	132.4	152.5	171.0	187.7	201.6	210.2	217.0	221.6	225.3
55°	79.0	95.1	113.9	132.7	151.0	166.7	178.1	184.6	189.8	192.6	194.8
57.5°	64.5	79.3	96.6	113.9	129.7	142.6	151.6	158.1	160.5	162.7	162.4
60°	50.6	64.5	80.3	95.1	108.7	119.2	125.6	129.3	131.2	132.1	131.5
62.5°	39.8	52.5	64.5	77.5	87.4	96.3	102.5	102.5	103.4	103.7	104.7
65°	29.6	39.2	49.7	59.3	67.3	73.2	76.6	77.5	78.7	78.4	77.8
67.5°	21.9	29.0	36.7	43.8	49.4	53.1	55.6	57.7	57.4	56.8	56.5
70°	15.1	19.8	26.5	30.9	34.9	38.6	39.2	39.5	39.8	40.1	39.5
72.5°	10.5	13.9	17.6	21.3	23.8	25.3	26.9	27.2	27.2	27.2	26.9
75°	5.2	7.1	10.5	12.0	14.2	14.8	16.1	16.1	17.0	15.7	15.4
77.5°	4.6	5.6	7.4	8.6	9.6	10.5	10.8	11.7	11.4	10.8	11.1
80°	2.8	3.4	4.6	5.2	6.5	6.8	7.1	7.4	7.1	7.4	7.4
82.5°	2.2	2.5	3.1	3.1	4.0	4.0	4.3	4.3	4.6	4.6	4.6
85°	1.2	2.2	1.9	3.7	2.5	2.5	3.1	3.7	3.1	3.1	3.7
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.5	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°	575.1	575.1	575.1	575.1
2.5°	576.0	576.6	575.7	575.4
5°	577.0	577.0	576.3	576.3
7.5°	577.0	577.0	576.0	575.4
10°	574.5	574.5	573.6	572.9
12.5°	569.9	569.9	569.5	568.6
15°	564.0	564.0	562.8	561.8
17.5°	556.0	556.6	555.0	555.0
20°	547.3	547.0	545.8	545.2
22.5°	538.4	537.8	537.4	535.6
25°	528.8	528.2	527.3	526.3
27.5°	512.4	512.1	511.2	510.0
30°	487.4	487.1	485.9	485.9
32.5°	455.0	454.7	453.5	453.8
35°	421.4	422.6	422.0	420.8
37.5°	393.3	394.2	394.8	394.2
40°	369.8	372.6	372.9	373.5
42.5°	344.8	348.5	349.8	350.4
45°	314.9	318.3	321.0	320.4
47.5°	284.3	286.8	289.2	287.4
50°	255.0	256.5	257.5	257.5
52.5°	227.2	227.2	226.9	227.2
55°	195.4	195.4	194.2	194.8
57.5°	162.1	162.7	161.8	160.2
60°	131.2	129.7	129.0	128.1
62.5°	102.2	102.2	100.0	102.8
65°	76.6	75.6	74.7	74.4
67.5°	55.6	55.3	54.3	54.0
70°	39.2	38.0	37.7	37.0
72.5°	26.2	26.2	25.6	25.6
75°	16.1	14.5	14.2	14.5
77.5°	11.1	10.8	10.8	10.5
80°	7.4	7.1	7.7	6.8
82.5°	4.6	4.9	4.6	4.9
85°	3.1	3.7	3.4	3.4
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)