

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: P246084

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246084  
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 EC8B10950 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1042.0 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

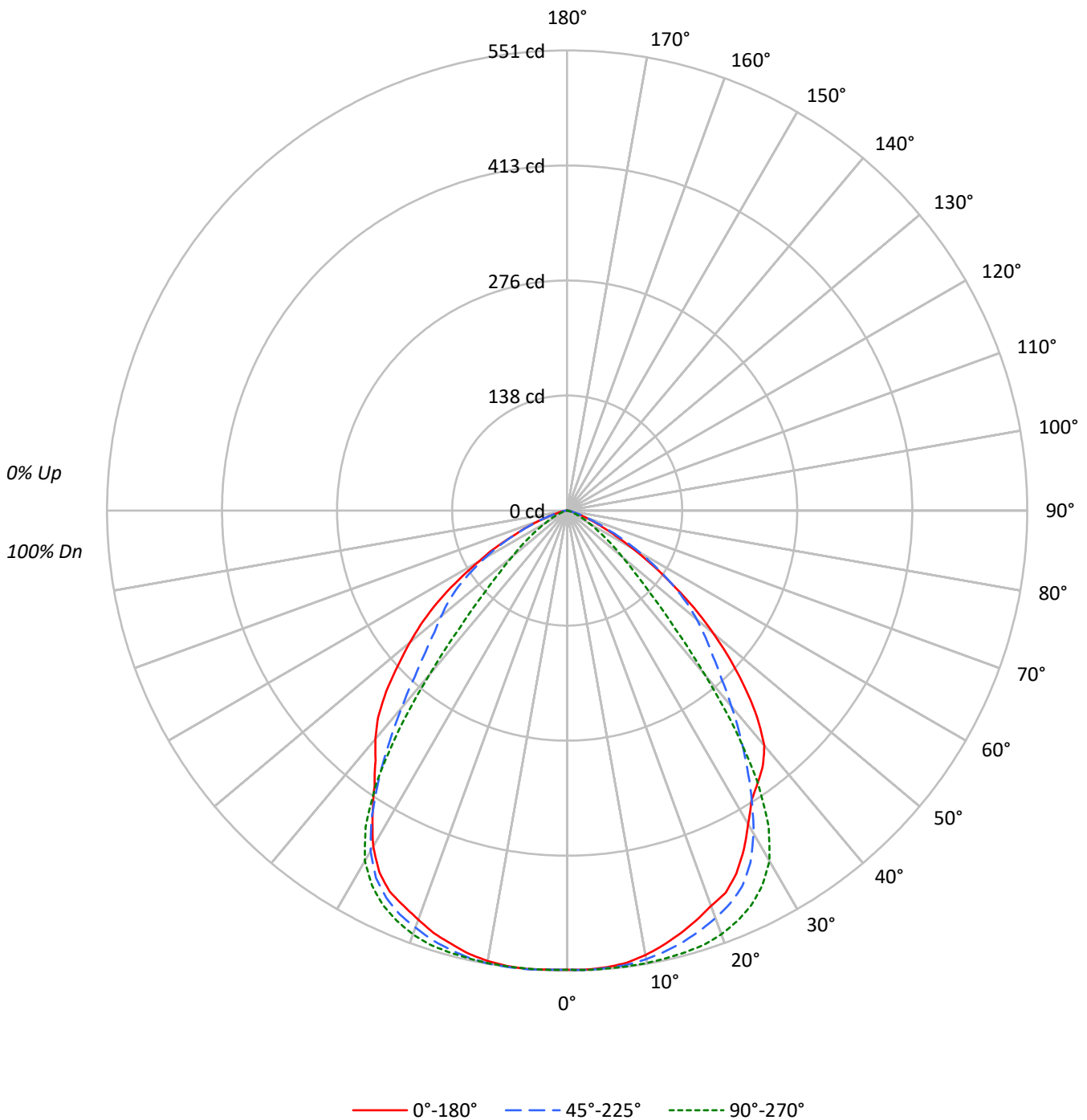
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90				90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70				70
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55				55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50				50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45				45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41				41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34				34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	16954	16954	16954
5°	16991	17037	17056
10°	16918	17225	17150
15°	16731	17475	17146
20°	16529	17720	17103
25°	16315	17744	17121
30°	15436	17244	16539
35°	14975	14986	15140
40°	14789	10309	14375
45°	13179	6188	13357
50°	10957	4121	11806
55°	8220	2839	10010
60°	5569	1893	7555
65°	3356	1226	5188
70°	1866	667	3192
75°	846	286	1656
80°	728	320	1154
85°	849	425	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.5	5.0
10°-20°	152.4	14.6
20°-30°	231.3	22.2
30°-40°	242.9	23.3
40°-50°	182.1	17.5
50°-60°	116.9	11.2
60°-70°	50.0	4.8
70°-80°	11.8	1.1
80°-90°	2.2	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°	436.1	41.9
0°-40°	679.0	65.2
0°-60°	978.0	93.9
0°-90°	1042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	550	550	550	550	550	
5°	549	550	550	551	551	52
15°	524	535	547	544	537	148
25°	480	496	522	512	503	219
35°	398	376	398	393	402	250
45°	302	247	142	240	306	231
55°	153	153	53	159	186	139
65°	46	54	17	70	71	49
75°	7	8	2	14	14	10
85°	2	2	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°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	550.1	550.7	550.4	550.4	550.1	550.4	550.4	551.0	551.0	550.4	550.1
5°	548.9	549.5	549.5	548.9	548.9	550.4	549.5	550.1	550.1	549.8	549.8
7.5°	546.2	546.2	547.4	546.5	546.5	547.4	547.1	547.7	548.3	548.6	548.6
10°	540.3	540.9	541.2	541.2	541.5	542.4	543.0	544.2	544.8	545.4	545.6
12.5°	533.0	533.8	534.1	533.8	534.7	535.9	537.4	538.9	539.7	540.9	541.8
15°	524.1	524.1	524.7	525.6	526.2	527.9	529.4	531.2	533.5	535.0	536.5
17.5°	514.4	515.0	515.8	515.8	517.0	520.0	520.9	523.5	526.2	527.6	530.6
20°	503.7	504.3	505.2	505.8	507.3	509.6	511.4	513.8	516.7	519.4	522.3
22.5°	495.5	494.3	494.9	495.5	497.0	499.0	501.1	504.0	507.0	509.6	512.6
25°	479.5	479.8	480.7	481.3	483.1	484.9	487.2	490.8	493.4	496.4	499.6
27.5°	458.0	458.3	459.8	459.8	461.2	464.2	465.7	468.6	472.2	475.1	479.0
30°	433.5	434.1	434.1	435.3	436.2	437.6	439.1	442.1	443.8	446.5	451.8
32.5°	411.1	411.7	411.4	411.1	410.2	409.9	409.6	410.2	410.8	411.7	413.7
35°	397.8	396.3	395.1	393.1	390.7	387.8	385.1	381.6	378.3	375.7	372.7
37.5°	385.1	384.8	383.0	380.1	375.4	370.1	363.9	356.2	348.5	340.3	332.3
40°	367.4	366.5	365.0	360.9	355.6	349.1	340.8	331.4	319.0	306.3	293.3
42.5°	337.3	337.6	335.8	332.6	327.6	321.4	312.8	302.5	289.2	274.1	257.3
45°	302.2	302.2	301.6	298.9	295.4	290.4	283.9	275.3	262.4	247.0	229.0
47.5°	265.6	265.9	265.0	264.4	262.9	259.7	255.0	248.5	239.3	224.6	206.6
50°	228.4	228.4	229.9	229.6	229.6	228.4	226.3	222.5	214.5	202.7	185.9
52.5°	191.2	191.8	192.7	193.9	195.4	197.7	195.4	193.6	188.6	179.4	165.0
55°	152.9	153.5	154.9	157.0	158.8	161.1	161.7	161.7	159.1	152.9	141.9
57.5°	120.1	119.2	120.4	122.2	124.5	126.9	128.7	130.7	130.4	126.3	117.5
60°	90.3	90.6	91.5	93.3	95.0	97.1	99.5	101.2	102.1	100.0	94.4
62.5°	65.8	65.8	67.0	68.8	69.6	72.6	74.1	75.0	75.8	75.5	72.0
65°	46.0	46.6	47.2	48.1	49.0	50.8	51.6	53.4	54.0	54.3	51.6
67.5°	32.5	31.6	32.2	32.8	33.6	34.8	36.6	36.6	37.5	37.5	35.7
70°	20.7	20.7	21.0	21.8	22.4	22.7	23.3	23.9	24.8	24.5	24.5
72.5°	13.9	13.6	13.9	14.2	14.5	15.3	15.3	15.6	16.2	16.5	15.3
75°	7.1	7.4	8.0	7.7	8.6	8.0	8.3	9.1	8.9	8.3	8.3
77.5°	5.9	5.9	5.9	5.6	6.2	6.2	5.9	6.5	6.2	6.2	5.9
80°	4.1	4.4	4.1	3.8	4.1	3.8	3.8	3.8	3.8	3.8	3.5
82.5°	3.2	2.7	3.0	2.7	3.0	3.0	2.7	2.4	2.4	2.7	2.4
85°	2.4	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.8	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°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	550.7	550.4	551.0	550.7	550.7	550.4	550.7	550.4	551.0	549.8	550.1
5°	550.7	550.1	550.4	550.7	551.0	550.4	550.4	550.4	551.0	550.4	550.7
7.5°	549.5	549.2	550.1	550.7	550.4	550.1	550.7	550.4	551.0	550.7	551.3
10°	547.1	547.4	548.0	548.9	549.2	549.5	550.1	550.1	551.0	549.8	550.4
12.5°	543.6	544.8	546.2	546.8	548.0	548.0	548.6	548.9	549.5	549.2	550.1
15°	539.2	540.6	542.4	543.9	545.4	546.2	547.1	547.4	548.3	547.4	547.7
17.5°	533.8	535.6	538.3	540.0	542.4	543.3	544.5	545.1	545.9	545.4	545.6
20°	526.5	528.5	531.5	534.1	535.6	537.7	539.2	540.0	540.6	540.0	540.3
22.5°	516.1	519.1	522.9	525.0	527.9	529.7	530.0	532.1	533.5	532.1	532.7
25°	504.0	507.0	509.9	514.4	517.0	519.1	521.2	521.5	522.9	522.6	522.3
27.5°	484.0	487.8	492.8	496.4	499.9	503.2	505.5	506.1	507.6	507.0	507.3
30°	456.5	460.7	465.4	471.0	476.0	479.2	482.2	484.3	485.7	484.9	484.6
32.5°	417.6	421.7	426.7	432.3	438.2	442.9	446.5	449.2	450.9	450.3	448.9
35°	373.0	374.2	377.4	381.9	386.9	391.9	395.1	398.1	400.2	400.8	400.8
37.5°	327.3	323.4	321.1	321.1	324.0	326.1	329.0	330.8	334.1	335.2	336.1
40°	283.0	274.1	265.9	259.7	255.6	255.3	255.3	256.1	259.1	262.9	266.5
42.5°	243.5	229.3	216.6	205.1	196.8	192.1	190.0	190.3	192.7	196.2	202.1
45°	211.9	194.2	178.2	164.4	153.2	145.8	142.2	141.9	143.7	147.8	154.3
47.5°	187.4	168.5	150.5	134.6	122.5	114.5	110.4	109.2	110.4	114.2	121.9
50°	167.0	147.6	129.0	112.4	99.5	91.2	87.3	85.9	87.3	90.6	98.3
52.5°	148.1	128.1	110.7	94.7	80.9	73.8	69.6	68.8	69.6	73.5	79.7
55°	126.3	109.2	92.1	76.1	64.0	57.0	53.7	52.8	53.7	57.3	63.7
57.5°	104.8	90.0	75.0	60.5	50.2	44.0	41.0	39.8	41.9	44.3	51.9
60°	84.7	72.9	60.2	47.5	39.0	33.3	31.0	30.7	31.3	34.2	39.5
62.5°	66.4	56.7	46.6	36.3	29.2	26.9	23.9	23.6	24.2	26.0	30.1
65°	47.8	41.6	33.9	26.6	21.0	17.7	16.5	16.8	17.4	18.6	22.4
67.5°	33.3	28.9	23.6	18.6	14.5	13.0	11.8	11.5	11.8	13.9	15.9
70°	22.4	19.8	15.9	14.2	10.0	8.0	8.3	7.4	8.6	8.6	10.3
72.5°	14.8	13.0	10.6	8.3	7.1	5.6	5.6	5.3	5.9	6.2	7.7
75°	7.7	5.9	5.9	4.1	3.0	1.5	2.7	2.4	2.1	2.4	3.0
77.5°	5.3	4.4	4.1	3.2	3.0	2.4	2.4	2.4	2.4	2.7	3.0
80°	3.2	3.2	2.4	2.1	1.8	1.5	1.8	1.8	1.8	1.8	2.1
82.5°	2.1	1.8	1.8	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.8
85°	1.8	1.2	1.2	0.9	1.2	2.1	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°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	550.7	551.0	551.0	550.7	550.7	550.1	551.3	550.4	550.7	551.8	551.0
5°	551.3	551.5	551.5	551.3	551.3	551.3	551.5	551.5	551.3	551.0	551.5
7.5°	552.4	552.1	552.1	551.5	551.5	551.0	551.5	550.7	551.3	550.7	551.5
10°	551.0	551.3	551.0	550.7	550.7	550.4	550.4	549.5	549.8	548.9	549.5
12.5°	550.1	549.8	549.8	549.2	548.6	548.0	547.7	546.8	546.8	544.8	545.6
15°	547.7	548.0	547.1	545.9	545.4	543.9	543.3	542.1	540.9	539.5	539.7
17.5°	545.6	544.8	543.6	542.4	540.0	538.9	537.7	535.9	535.3	533.5	533.0
20°	539.5	538.9	537.4	535.3	533.8	531.2	530.0	528.2	526.8	525.0	524.1
22.5°	531.5	530.9	529.1	527.1	524.7	523.5	522.3	519.1	517.6	515.8	515.5
25°	521.5	520.6	518.8	516.4	515.3	512.0	510.8	508.5	507.9	506.1	505.8
27.5°	506.1	504.9	502.9	499.9	497.8	495.8	494.6	492.8	492.2	490.5	490.2
30°	483.1	481.6	477.5	476.3	472.8	470.7	470.7	468.3	468.6	467.4	467.4
32.5°	446.8	444.4	441.2	438.8	436.5	435.3	435.3	434.4	435.0	435.0	435.6
35°	398.7	395.4	393.7	392.2	392.2	393.4	396.9	397.8	399.6	401.0	402.2
37.5°	337.0	336.7	338.8	340.6	345.0	350.0	356.2	361.5	366.5	370.1	373.6
40°	270.3	277.7	283.6	291.9	298.6	308.4	319.6	328.7	337.3	343.5	350.0
42.5°	211.0	220.4	232.8	244.9	257.0	270.3	285.1	297.8	309.0	317.5	324.3
45°	164.4	177.4	192.4	207.8	223.4	239.9	255.3	268.3	280.1	288.9	295.7
47.5°	132.5	146.7	163.8	180.6	198.3	215.7	232.8	244.1	253.8	260.9	267.1
50°	109.5	124.5	142.5	161.7	179.4	196.8	211.6	222.5	230.5	236.7	240.5
52.5°	91.5	107.4	126.6	145.8	163.5	179.4	192.7	201.0	207.5	211.9	215.4
55°	75.5	90.9	108.9	126.9	144.3	159.4	170.3	176.5	181.5	184.1	186.2
57.5°	61.7	75.8	92.4	108.9	123.9	136.3	144.9	151.1	153.5	155.5	155.2
60°	48.4	61.7	76.7	90.9	103.9	113.9	120.1	123.6	125.4	126.3	125.7
62.5°	38.1	50.2	61.7	74.1	83.5	92.1	98.0	98.0	98.9	99.2	100.0
65°	28.3	37.5	47.5	56.7	64.3	69.9	73.2	74.1	75.3	75.0	74.4
67.5°	21.0	27.7	35.1	41.9	47.2	50.8	53.1	55.2	54.9	54.3	54.0
70°	14.5	18.9	25.4	29.5	33.3	36.9	37.5	37.8	38.1	38.4	37.8
72.5°	10.0	13.3	16.8	20.4	22.7	24.2	25.7	26.0	26.0	26.0	25.7
75°	5.0	6.8	10.0	11.5	13.6	14.2	15.3	15.3	16.2	15.0	14.8
77.5°	4.4	5.3	7.1	8.3	9.1	10.0	10.3	11.2	10.9	10.3	10.6
80°	2.7	3.2	4.4	5.0	6.2	6.5	6.8	7.1	6.8	7.1	7.1
82.5°	2.1	2.4	3.0	3.0	3.8	3.8	4.1	4.1	4.4	4.4	4.4
85°	1.2	2.1	1.8	3.5	2.4	2.4	3.0	3.5	3.0	3.0	3.5
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.5	1.8	1.8	2.1	1.8
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°	549.8	549.8	549.8	549.8
2.5°	550.7	551.3	550.4	550.1
5°	551.5	551.5	551.0	551.0
7.5°	551.5	551.5	550.7	550.1
10°	549.2	549.2	548.3	547.7
12.5°	544.8	544.8	544.5	543.6
15°	539.2	539.2	538.0	537.1
17.5°	531.5	532.1	530.6	530.6
20°	523.2	522.9	521.7	521.2
22.5°	514.7	514.1	513.8	512.0
25°	505.5	504.9	504.0	503.2
27.5°	489.9	489.6	488.7	487.5
30°	466.0	465.7	464.5	464.5
32.5°	435.0	434.7	433.5	433.8
35°	402.8	404.0	403.4	402.2
37.5°	376.0	376.9	377.4	376.9
40°	353.5	356.2	356.5	357.1
42.5°	329.6	333.2	334.4	334.9
45°	301.0	304.3	306.9	306.3
47.5°	271.8	274.1	276.5	274.7
50°	243.8	245.2	246.1	246.1
52.5°	217.2	217.2	216.9	217.2
55°	186.8	186.8	185.6	186.2
57.5°	154.9	155.5	154.6	153.2
60°	125.4	123.9	123.4	122.5
62.5°	97.7	97.7	95.6	98.3
65°	73.2	72.3	71.4	71.1
67.5°	53.1	52.8	51.9	51.6
70°	37.5	36.3	36.0	35.4
72.5°	25.1	25.1	24.5	24.5
75°	15.3	13.9	13.6	13.9
77.5°	10.6	10.3	10.3	10.0
80°	7.1	6.8	7.4	6.5
82.5°	4.4	4.7	4.4	4.7
85°	3.0	3.5	3.2	3.2
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)