

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: P244650

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244650  
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 EC8B109727 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: 805.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 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

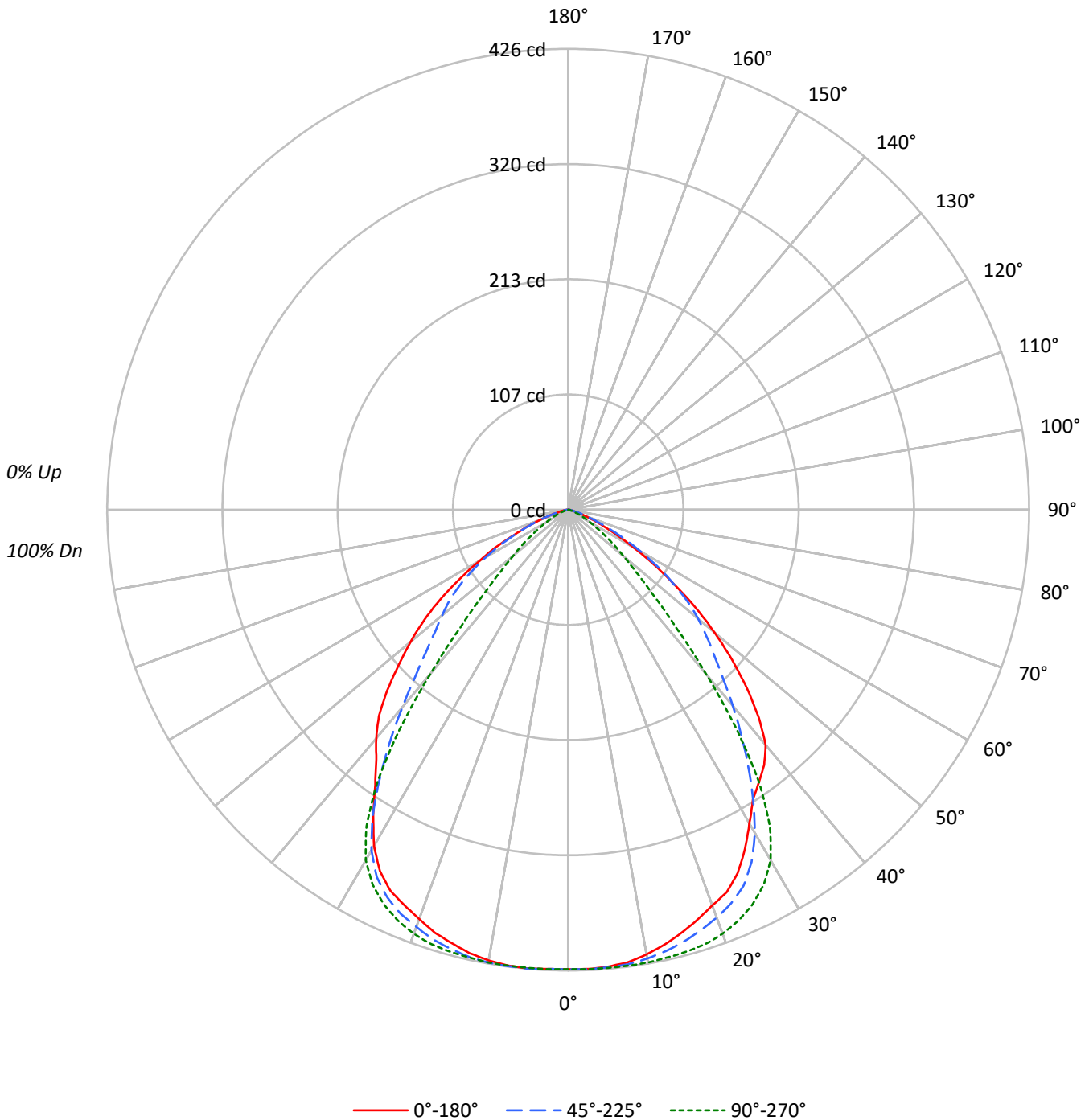
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	65	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°	13096	13096	13096
5°	13125	13162	13174
10°	13070	13308	13248
15°	12926	13501	13245
20°	12772	13691	13211
25°	12606	13705	13225
30°	11925	13320	12776
35°	11568	11576	11696
40°	11424	7966	11106
45°	10183	4784	10318
50°	8467	3181	9120
55°	6349	2193	7736
60°	4305	1462	5834
65°	2598	949	4006
70°	1443	514	2470
75°	655	214	1275
80°	568	249	888
85°	637	318	885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.5	5.0
10°-20°	117.7	14.6
20°-30°	178.7	22.2
30°-40°	187.7	23.3
40°-50°	140.7	17.5
50°-60°	90.3	11.2
60°-70°	38.6	4.8
70°-80°	9.1	1.1
80°-90°	1.7	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°	336.9	41.9
0°-40°	524.6	65.2
0°-60°	755.6	93.9
0°-90°	805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	425	425	425	425	425	
5°	424	425	425	426	426	40
15°	405	413	423	420	415	114
25°	370	384	403	396	389	169
35°	307	290	308	304	311	193
45°	234	191	110	185	237	179
55°	118	118	41	123	144	107
65°	36	42	13	54	55	38
75°	6	6	2	11	11	8
85°	2	1	1	2	2	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°	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7
2.5°	425.0	425.4	425.2	425.2	425.0	425.2	425.2	425.6	425.6	425.2	425.0
5°	424.0	424.5	424.5	424.0	424.0	425.2	424.5	425.0	425.0	424.7	424.7
7.5°	422.0	422.0	422.9	422.2	422.2	422.9	422.7	423.1	423.6	423.8	423.8
10°	417.4	417.9	418.1	418.1	418.4	419.0	419.5	420.4	420.9	421.3	421.5
12.5°	411.7	412.4	412.7	412.4	413.1	414.0	415.2	416.3	417.0	417.9	418.6
15°	404.9	404.9	405.4	406.0	406.5	407.9	409.0	410.4	412.2	413.3	414.5
17.5°	397.4	397.8	398.5	398.5	399.4	401.7	402.4	404.4	406.5	407.6	409.9
20°	389.2	389.6	390.3	390.8	391.9	393.7	395.1	396.9	399.2	401.3	403.5
22.5°	382.8	381.9	382.3	382.8	383.9	385.5	387.1	389.4	391.7	393.7	396.0
25°	370.5	370.7	371.4	371.8	373.2	374.6	376.4	379.1	381.2	383.5	386.0
27.5°	353.8	354.1	355.2	355.2	356.3	358.6	359.8	362.0	364.8	367.1	370.0
30°	334.9	335.4	335.4	336.3	337.0	338.1	339.2	341.5	342.9	344.9	349.0
32.5°	317.6	318.0	317.8	317.6	316.9	316.7	316.4	316.9	317.4	318.0	319.6
35°	307.3	306.2	305.3	303.7	301.9	299.6	297.5	294.8	292.3	290.2	287.9
37.5°	297.5	297.3	295.9	293.6	290.0	285.9	281.1	275.2	269.2	262.9	256.7
40°	283.8	283.2	282.0	278.8	274.7	269.7	263.3	256.0	246.4	236.6	226.6
42.5°	260.6	260.8	259.4	256.9	253.1	248.3	241.7	233.7	223.4	211.8	198.8
45°	233.5	233.5	233.0	230.9	228.2	224.3	219.3	212.7	202.7	190.8	176.9
47.5°	205.2	205.4	204.7	204.3	203.1	200.6	197.0	192.0	184.9	173.5	159.6
50°	176.5	176.5	177.6	177.4	177.4	176.5	174.9	171.9	165.7	156.6	143.6
52.5°	147.7	148.2	148.9	149.8	150.9	152.7	150.9	149.6	145.7	138.6	127.4
55°	118.1	118.6	119.7	121.3	122.7	124.5	124.9	124.9	122.9	118.1	109.7
57.5°	92.8	92.1	93.0	94.4	96.2	98.0	99.4	101.0	100.8	97.6	90.7
60°	69.8	70.0	70.7	72.0	73.4	75.0	76.8	78.2	78.9	77.3	73.0
62.5°	50.8	50.8	51.8	53.1	53.8	56.1	57.2	57.9	58.6	58.4	55.6
65°	35.6	36.0	36.5	37.2	37.8	39.2	39.9	41.3	41.7	41.9	39.9
67.5°	25.1	24.4	24.9	25.3	26.0	26.9	28.3	28.3	29.0	29.0	27.6
70°	16.0	16.0	16.2	16.9	17.3	17.6	18.0	18.5	19.2	18.9	18.9
72.5°	10.7	10.5	10.7	10.9	11.2	11.9	11.9	12.1	12.5	12.8	11.9
75°	5.5	5.7	6.2	5.9	6.6	6.2	6.4	7.1	6.8	6.4	6.4
77.5°	4.6	4.6	4.6	4.3	4.8	4.8	4.6	5.0	4.8	4.8	4.6
80°	3.2	3.4	3.2	3.0	3.2	3.0	3.0	3.0	3.0	3.0	2.7
82.5°	2.5	2.1	2.3	2.1	2.3	2.3	2.1	1.8	1.8	2.1	1.8
85°	1.8	1.4	1.6	1.6	1.4	1.4	1.4	1.4	1.4	1.1	1.1
87.5°	1.1	0.7	0.7	0.7	0.9	0.9	0.9	0.7	0.9	0.9	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°	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7
2.5°	425.4	425.2	425.6	425.4	425.4	425.2	425.4	425.2	425.6	424.7	425.0
5°	425.4	425.0	425.2	425.4	425.6	425.2	425.2	425.2	425.6	425.2	425.4
7.5°	424.5	424.3	425.0	425.4	425.2	425.0	425.4	425.2	425.6	425.4	425.9
10°	422.7	422.9	423.4	424.0	424.3	424.5	425.0	425.0	425.6	424.7	425.2
12.5°	419.9	420.9	422.0	422.5	423.4	423.4	423.8	424.0	424.5	424.3	425.0
15°	416.5	417.7	419.0	420.2	421.3	422.0	422.7	422.9	423.6	422.9	423.1
17.5°	412.4	413.8	415.8	417.2	419.0	419.7	420.6	421.1	421.8	421.3	421.5
20°	406.7	408.3	410.6	412.7	413.8	415.4	416.5	417.2	417.7	417.2	417.4
22.5°	398.7	401.0	404.0	405.6	407.9	409.2	409.5	411.1	412.2	411.1	411.5
25°	389.4	391.7	394.0	397.4	399.4	401.0	402.6	402.8	404.0	403.8	403.5
27.5°	373.9	376.9	380.7	383.5	386.2	388.7	390.5	391.0	392.1	391.7	391.9
30°	352.7	355.9	359.5	363.9	367.7	370.2	372.5	374.1	375.3	374.6	374.3
32.5°	322.6	325.8	329.7	334.0	338.6	342.2	344.9	347.0	348.4	347.9	346.8
35°	288.2	289.1	291.6	295.0	298.9	302.8	305.3	307.5	309.1	309.6	309.6
37.5°	252.8	249.9	248.0	248.0	250.3	251.9	254.2	255.6	258.1	259.0	259.7
40°	218.6	211.8	205.4	200.6	197.4	197.2	197.2	197.9	200.2	203.1	205.9
42.5°	188.1	177.1	167.3	158.4	152.1	148.4	146.8	147.1	148.9	151.6	156.2
45°	163.7	150.0	137.7	127.0	118.3	112.6	109.9	109.7	111.0	114.2	119.2
47.5°	144.8	130.2	116.3	104.0	94.6	88.5	85.3	84.4	85.3	88.2	94.2
50°	129.0	114.0	99.6	86.9	76.8	70.4	67.5	66.3	67.5	70.0	75.9
52.5°	114.4	98.9	85.5	73.2	62.5	57.0	53.8	53.1	53.8	56.8	61.6
55°	97.6	84.4	71.1	58.8	49.5	44.0	41.5	40.8	41.5	44.2	49.2
57.5°	80.9	69.5	57.9	46.7	38.8	34.0	31.7	30.8	32.4	34.2	40.1
60°	65.4	56.3	46.5	36.7	30.1	25.8	23.9	23.7	24.2	26.4	30.5
62.5°	51.3	43.8	36.0	28.0	22.6	20.7	18.5	18.2	18.7	20.1	23.3
65°	36.9	32.1	26.2	20.5	16.2	13.7	12.8	13.0	13.4	14.4	17.3
67.5°	25.8	22.3	18.2	14.4	11.2	10.0	9.1	8.9	9.1	10.7	12.3
70°	17.3	15.3	12.3	10.9	7.8	6.2	6.4	5.7	6.6	6.6	8.0
72.5°	11.4	10.0	8.2	6.4	5.5	4.3	4.3	4.1	4.6	4.8	5.9
75°	5.9	4.6	4.6	3.2	2.3	1.1	2.1	1.8	1.6	1.8	2.3
77.5°	4.1	3.4	3.2	2.5	2.3	1.8	1.8	1.8	1.8	2.1	2.3
80°	2.5	2.5	1.8	1.6	1.4	1.1	1.4	1.4	1.4	1.4	1.6
82.5°	1.6	1.4	1.4	1.1	1.1	0.9	0.9	0.9	0.9	0.9	1.4
85°	1.4	0.9	0.9	0.7	0.9	1.6	0.7	0.9	0.9	0.9	0.7
87.5°	0.5	0.7	0.7	0.7	0.5	0.2	0.5	0.7	0.7	1.1	0.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7	424.7
2.5°	425.4	425.6	425.6	425.4	425.4	425.0	425.9	425.2	425.4	426.3	425.6
5°	425.9	426.1	426.1	425.9	425.9	425.9	426.1	426.1	425.9	425.6	426.1
7.5°	426.8	426.6	426.6	426.1	426.1	425.6	426.1	425.4	425.9	425.4	426.1
10°	425.6	425.9	425.6	425.4	425.4	425.2	425.2	424.5	424.7	424.0	424.5
12.5°	425.0	424.7	424.7	424.3	423.8	423.4	423.1	422.5	422.5	420.9	421.5
15°	423.1	423.4	422.7	421.8	421.3	420.2	419.7	418.8	417.9	416.8	417.0
17.5°	421.5	420.9	419.9	419.0	417.2	416.3	415.4	414.0	413.6	412.2	411.7
20°	416.8	416.3	415.2	413.6	412.4	410.4	409.5	408.1	406.9	405.6	404.9
22.5°	410.6	410.1	408.8	407.2	405.4	404.4	403.5	401.0	399.9	398.5	398.3
25°	402.8	402.2	400.8	399.0	398.1	395.6	394.6	392.8	392.4	391.0	390.8
27.5°	391.0	390.1	388.5	386.2	384.6	383.0	382.1	380.7	380.3	378.9	378.7
30°	373.2	372.1	368.9	368.0	365.2	363.6	363.6	361.8	362.0	361.1	361.1
32.5°	345.2	343.3	340.8	339.0	337.2	336.3	336.3	335.6	336.0	336.0	336.5
35°	308.0	305.5	304.1	303.0	303.0	303.9	306.6	307.3	308.7	309.8	310.7
37.5°	260.4	260.1	261.7	263.1	266.5	270.4	275.2	279.3	283.2	285.9	288.6
40°	208.8	214.5	219.1	225.5	230.7	238.2	246.9	254.0	260.6	265.4	270.4
42.5°	163.0	170.3	179.9	189.2	198.6	208.8	220.2	230.0	238.7	245.3	250.6
45°	127.0	137.0	148.6	160.5	172.6	185.4	197.2	207.2	216.4	223.2	228.4
47.5°	102.4	113.3	126.5	139.5	153.2	166.7	179.9	188.5	196.1	201.5	206.3
50°	84.6	96.2	110.1	124.9	138.6	152.1	163.5	171.9	178.1	182.8	185.8
52.5°	70.7	83.0	97.8	112.6	126.3	138.6	148.9	155.3	160.3	163.7	166.4
55°	58.4	70.2	84.1	98.0	111.5	123.1	131.5	136.3	140.2	142.3	143.9
57.5°	47.7	58.6	71.4	84.1	95.8	105.3	111.9	116.7	118.6	120.1	119.9
60°	37.4	47.7	59.3	70.2	80.3	88.0	92.8	95.5	96.9	97.6	97.1
62.5°	29.4	38.8	47.7	57.2	64.5	71.1	75.7	75.7	76.4	76.6	77.3
65°	21.9	29.0	36.7	43.8	49.7	54.0	56.5	57.2	58.1	57.9	57.5
67.5°	16.2	21.4	27.1	32.4	36.5	39.2	41.0	42.6	42.4	41.9	41.7
70°	11.2	14.6	19.6	22.8	25.8	28.5	29.0	29.2	29.4	29.6	29.2
72.5°	7.8	10.3	13.0	15.7	17.6	18.7	19.8	20.1	20.1	20.1	19.8
75°	3.9	5.2	7.8	8.9	10.5	10.9	11.9	11.9	12.5	11.6	11.4
77.5°	3.4	4.1	5.5	6.4	7.1	7.8	8.0	8.7	8.4	8.0	8.2
80°	2.1	2.5	3.4	3.9	4.8	5.0	5.2	5.5	5.2	5.5	5.5
82.5°	1.6	1.8	2.3	2.3	3.0	3.0	3.2	3.2	3.4	3.4	3.4
85°	0.9	1.6	1.4	2.7	1.8	1.8	2.3	2.7	2.3	2.3	2.7
87.5°	0.9	0.9	0.7	0.9	0.9	0.9	1.1	1.4	1.4	1.6	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°	424.7	424.7	424.7	424.7
2.5°	425.4	425.9	425.2	425.0
5°	426.1	426.1	425.6	425.6
7.5°	426.1	426.1	425.4	425.0
10°	424.3	424.3	423.6	423.1
12.5°	420.9	420.9	420.6	419.9
15°	416.5	416.5	415.6	414.9
17.5°	410.6	411.1	409.9	409.9
20°	404.2	404.0	403.1	402.6
22.5°	397.6	397.1	396.9	395.6
25°	390.5	390.1	389.4	388.7
27.5°	378.5	378.2	377.5	376.6
30°	360.0	359.8	358.8	358.8
32.5°	336.0	335.8	334.9	335.1
35°	311.2	312.1	311.7	310.7
37.5°	290.5	291.1	291.6	291.1
40°	273.1	275.2	275.4	275.9
42.5°	254.7	257.4	258.3	258.8
45°	232.5	235.1	237.1	236.6
47.5°	210.0	211.8	213.6	212.3
50°	188.3	189.5	190.1	190.1
52.5°	167.8	167.8	167.6	167.8
55°	144.3	144.3	143.4	143.9
57.5°	119.7	120.1	119.5	118.3
60°	96.9	95.8	95.3	94.6
62.5°	75.5	75.5	73.9	75.9
65°	56.5	55.9	55.2	54.9
67.5°	41.0	40.8	40.1	39.9
70°	29.0	28.0	27.8	27.4
72.5°	19.4	19.4	18.9	18.9
75°	11.9	10.7	10.5	10.7
77.5°	8.2	8.0	8.0	7.8
80°	5.5	5.2	5.7	5.0
82.5°	3.4	3.6	3.4	3.6
85°	2.3	2.7	2.5	2.5
87.5°	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)