

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: P244218

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B109727 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 834.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

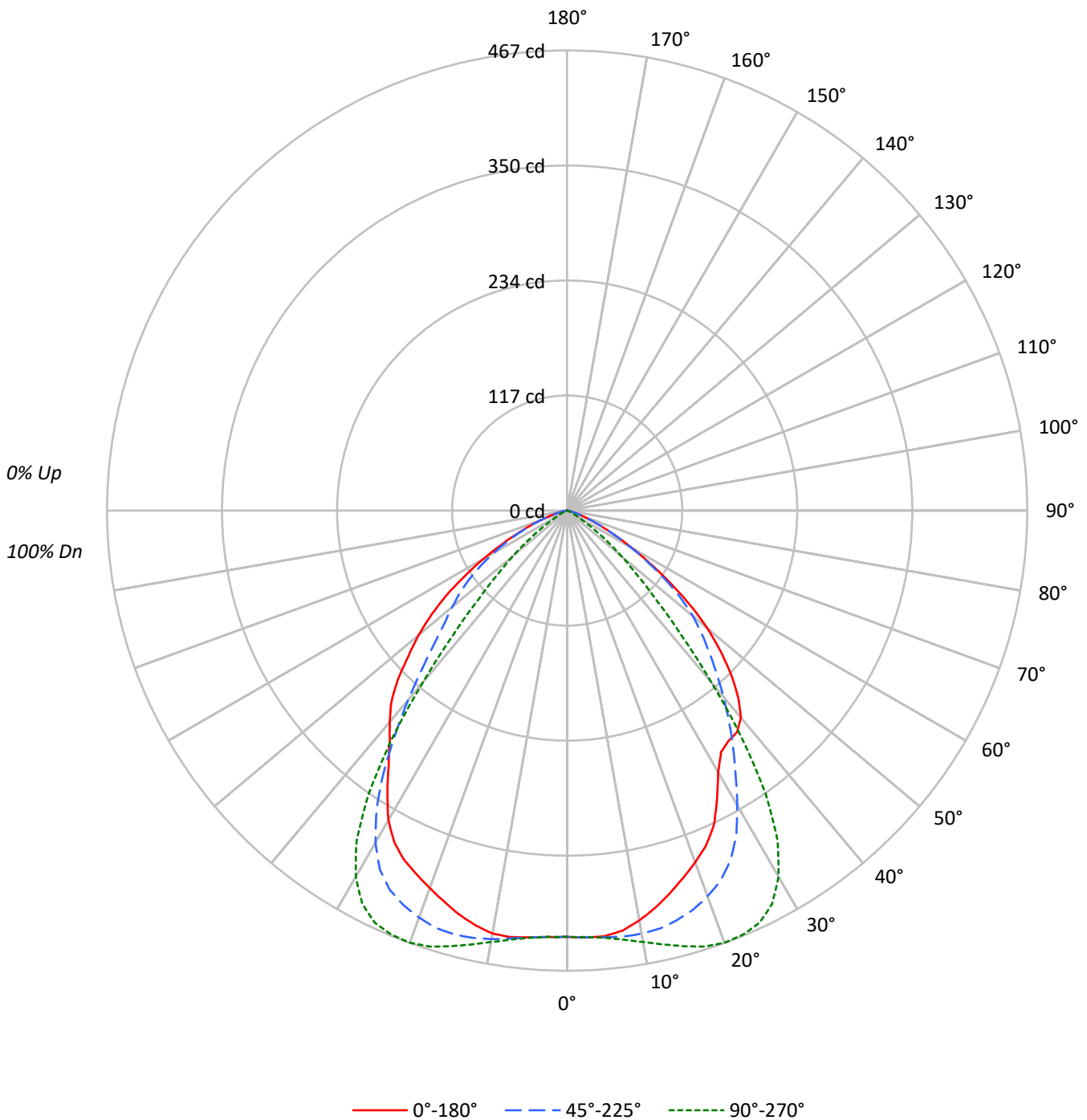
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	13340	13340	13340
5°	13422	13471	13456
10°	13223	13921	13649
15°	12837	14612	13542
20°	12463	15312	13376
25°	11987	15706	13314
30°	10906	15275	12918
35°	10744	13236	11888
40°	11038	9178	11267
45°	10274	5547	10597
50°	8913	3425	9441
55°	6838	1790	8010
60°	4662	722	6050
65°	2897	372	4174
70°	1578	225	2542
75°	822	107	1501
80°	373	124	817
85°	248	71	743



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.6	5.0
10°-20°	123.3	14.8
20°-30°	188.0	22.5
30°-40°	196.2	23.5
40°-50°	147.4	17.7
50°-60°	90.7	10.9
60°-70°	36.9	4.4
70°-80°	8.7	1.0
80°-90°	1.2	0.1
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°	352.9	42.3
0°-40°	549.1	65.8
0°-60°	787.2	94.4
0°-90°	834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	433	433	433	433	433	
5°	434	435	435	435	435	41
15°	402	430	458	445	424	113
25°	352	392	462	425	391	160
35°	285	294	352	325	316	180
45°	236	204	127	190	243	180
55°	127	121	33	121	149	114
65°	40	40	5	54	57	41
75°	7	7	1	12	13	8
85°	1	1	0	2	2	1
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°	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6
2.5°	433.8	433.1	433.8	433.8	434.0	433.6	433.8	434.0	433.6	433.6	433.6
5°	433.6	433.1	433.6	433.3	433.8	433.8	434.3	434.3	434.7	434.7	435.4
7.5°	429.9	429.0	429.9	430.6	431.0	432.0	433.1	434.0	434.9	435.9	437.0
10°	422.3	422.3	423.0	424.4	425.8	427.4	429.4	431.7	434.0	436.1	438.2
12.5°	412.9	412.2	413.6	415.4	417.5	420.0	423.2	426.7	430.4	434.5	437.7
15°	402.1	401.4	403.0	404.9	407.4	411.1	415.0	419.6	424.8	430.4	435.6
17.5°	391.1	390.9	392.5	395.0	397.1	401.0	406.0	411.5	417.5	424.8	431.7
20°	379.8	379.6	381.2	383.3	386.0	389.7	394.8	401.2	408.3	416.6	424.6
22.5°	368.1	368.4	369.7	372.0	374.3	378.2	383.5	389.9	397.7	406.7	415.7
25°	352.3	351.1	353.0	355.3	359.2	362.4	367.4	374.3	382.4	391.8	402.3
27.5°	329.3	329.1	330.7	332.8	336.2	340.1	345.6	352.7	361.2	371.6	381.9
30°	306.3	306.8	307.5	309.6	311.9	315.8	321.3	327.2	335.3	345.2	356.2
32.5°	290.7	290.7	291.7	293.0	294.6	296.7	300.6	305.0	311.2	318.1	326.1
35°	285.4	284.5	285.4	285.7	285.9	286.4	287.1	288.4	290.5	293.5	296.5
37.5°	283.2	282.5	282.5	281.5	280.4	279.0	277.2	275.1	272.8	269.8	267.5
40°	274.2	273.7	273.3	272.4	269.8	267.1	264.1	259.3	254.0	246.6	239.3
42.5°	257.0	256.5	256.3	254.4	252.1	248.9	245.5	240.4	233.8	224.4	213.8
45°	235.6	234.7	234.0	232.4	230.8	228.0	224.8	220.2	213.6	203.9	191.3
47.5°	210.8	210.4	210.1	209.4	207.8	206.2	204.2	200.5	194.5	185.3	172.2
50°	185.8	184.9	185.3	185.1	184.4	183.3	181.9	179.4	174.8	166.5	154.6
52.5°	157.1	157.1	156.8	157.5	157.8	157.5	157.8	155.0	151.1	144.9	134.8
55°	127.2	127.2	127.9	128.8	129.7	130.0	129.7	128.6	125.8	120.8	111.8
57.5°	99.2	98.7	100.1	101.5	102.4	103.3	102.6	101.7	100.1	96.0	89.1
60°	75.6	75.6	76.5	77.4	78.3	79.2	79.0	78.8	77.4	74.6	69.1
62.5°	55.6	55.8	55.8	56.5	57.4	58.3	59.0	58.3	57.6	55.8	52.1
65°	39.7	39.5	39.7	40.4	41.1	42.0	42.5	42.3	41.6	40.2	37.4
67.5°	26.6	26.4	27.3	27.6	28.0	28.9	28.7	28.9	28.7	27.6	25.3
70°	17.5	17.0	17.5	17.2	17.9	18.1	18.6	18.8	18.6	17.9	17.2
72.5°	10.8	10.6	10.8	11.0	11.3	11.5	11.9	11.9	11.7	11.3	10.3
75°	6.9	6.2	6.4	6.0	6.4	6.4	6.9	7.1	6.9	6.9	6.4
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.4	4.6	4.1	3.9
80°	2.1	2.1	2.3	2.3	2.3	2.5	2.3	2.3	2.3	2.5	1.8
82.5°	1.6	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.9	0.7	0.5	0.7	0.7	0.9	0.7	0.7	0.7	0.9
87.5°	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.5	0.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6
2.5°	433.8	433.3	433.3	433.1	433.6	433.1	433.3	433.1	433.1	433.6	433.1
5°	435.4	435.6	435.2	434.9	435.6	435.6	435.6	435.2	435.2	435.4	435.2
7.5°	437.7	438.2	438.4	438.6	439.1	439.3	439.3	439.1	438.9	439.5	438.6
10°	440.2	440.9	442.3	443.0	444.1	444.1	444.6	444.6	444.1	444.6	444.4
12.5°	439.3	443.4	445.7	447.3	449.0	450.3	450.8	451.0	450.8	451.7	450.8
15°	440.9	444.4	448.0	450.8	453.8	455.4	455.8	457.7	458.1	458.4	457.0
17.5°	438.4	444.6	448.5	452.6	457.0	460.0	462.7	463.9	464.1	464.6	462.7
20°	432.6	439.5	445.5	451.5	456.5	461.1	463.4	466.6	465.7	467.6	465.0
22.5°	424.8	432.6	440.2	448.0	453.3	458.8	463.7	465.9	467.1	467.1	464.3
25°	412.4	421.6	429.9	437.9	446.0	452.6	458.1	461.6	462.3	462.0	458.8
27.5°	393.2	403.0	412.7	421.9	431.7	439.5	446.0	450.1	451.3	451.3	447.8
30°	366.5	377.1	386.5	397.5	407.6	416.3	425.3	429.0	431.0	431.0	427.1
32.5°	334.8	343.8	352.5	363.3	374.3	384.2	392.7	397.7	400.3	400.0	396.6
35°	300.4	304.7	311.4	319.4	329.3	338.5	346.8	351.6	355.9	355.7	352.5
37.5°	265.9	264.8	265.5	268.5	274.7	281.1	287.5	292.1	295.8	297.4	296.7
40°	232.2	226.2	220.5	218.4	218.9	221.1	224.6	228.0	232.2	234.2	235.2
42.5°	201.9	191.8	181.6	174.1	169.7	168.3	169.9	171.1	173.6	176.6	179.6
45°	177.5	164.0	150.6	138.9	131.6	127.2	126.3	127.2	128.6	131.6	135.5
47.5°	157.5	141.7	126.8	113.7	102.9	97.1	95.5	95.1	96.5	99.2	104.5
50°	139.9	124.0	107.5	92.3	81.1	74.6	72.3	71.4	73.0	75.1	79.9
52.5°	120.6	104.9	88.0	73.3	61.5	54.9	52.4	51.0	51.9	54.7	59.5
55°	99.7	85.2	69.8	54.7	43.4	37.2	34.2	33.3	34.2	37.2	42.0
57.5°	78.8	66.6	53.7	39.5	29.4	23.2	20.2	19.3	21.8	23.0	28.0
60°	61.5	51.7	40.6	28.9	20.2	15.4	12.4	11.7	12.9	14.9	19.1
62.5°	46.2	40.0	31.2	20.7	14.9	9.9	8.3	7.6	8.3	9.9	13.1
65°	33.5	28.7	21.8	15.2	10.1	7.3	5.5	5.1	5.7	6.9	9.6
67.5°	23.0	19.3	15.2	10.6	6.9	4.6	3.9	3.9	4.1	5.1	7.1
70°	14.9	12.6	9.6	6.9	4.6	3.4	3.0	2.5	3.0	3.7	4.8
72.5°	9.4	8.0	6.2	4.8	3.4	2.5	2.1	1.8	2.3	2.8	3.7
75°	5.7	4.4	3.2	2.5	1.8	1.8	1.8	0.9	1.1	1.8	2.3
77.5°	3.4	3.0	2.5	2.1	1.6	0.9	0.9	0.9	1.1	1.4	2.1
80°	1.8	1.6	1.1	1.1	0.9	0.7	0.9	0.7	0.5	1.1	1.4
82.5°	1.1	0.9	0.9	0.9	1.1	0.5	0.7	0.5	0.7	0.9	0.7
85°	0.7	0.7	0.7	0.5	1.1	0.5	0.5	0.2	0.2	0.5	0.5
87.5°	0.0	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.2
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°	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6
2.5°	433.3	433.1	433.3	433.1	433.1	433.1	433.3	433.3	433.1	433.1	433.6
5°	435.2	435.2	435.2	434.9	434.7	434.7	435.2	435.2	434.5	435.2	435.2
7.5°	439.1	438.4	439.1	438.2	437.7	437.9	438.2	437.7	437.2	437.5	437.5
10°	444.1	443.4	443.4	442.8	442.1	441.6	441.2	440.0	438.9	438.6	437.7
12.5°	450.1	449.0	448.3	446.9	445.7	444.1	442.8	440.9	438.6	437.0	435.4
15°	456.1	454.2	452.6	450.3	447.8	445.1	442.1	439.1	435.4	432.2	429.4
17.5°	460.9	458.4	455.4	451.7	448.0	443.9	439.5	435.2	429.9	425.8	422.5
20°	462.5	458.8	454.9	450.1	445.3	439.5	434.0	428.3	422.3	418.0	414.3
22.5°	460.4	456.1	451.3	446.2	439.8	433.6	427.1	420.5	415.2	409.2	405.8
25°	454.7	449.4	444.1	438.2	432.0	425.1	418.2	411.3	404.9	401.6	397.3
27.5°	443.0	437.2	431.5	425.3	418.2	411.3	404.2	397.5	392.0	387.6	385.1
30°	422.3	415.7	409.0	402.3	396.1	389.0	382.4	376.8	371.3	367.9	365.4
32.5°	390.6	384.7	378.0	371.6	365.8	359.9	354.3	349.5	345.6	343.3	341.5
35°	347.9	341.9	336.9	332.3	327.5	324.9	321.5	318.7	317.1	316.2	316.0
37.5°	294.2	290.7	289.1	288.2	287.3	286.6	287.1	288.2	289.1	290.7	292.6
40°	236.8	239.7	240.7	243.9	246.9	250.8	255.1	260.2	264.3	269.6	273.3
42.5°	184.4	189.9	196.3	203.2	210.6	217.7	226.4	234.5	241.8	248.5	254.2
45°	141.7	150.2	159.8	169.7	179.6	189.9	200.5	210.4	219.1	226.2	232.2
47.5°	110.5	119.9	132.3	144.4	156.4	168.6	180.3	190.6	198.0	204.8	210.1
50°	87.5	98.3	111.8	125.8	138.9	151.8	164.2	173.8	181.2	186.7	190.6
52.5°	67.7	80.6	94.4	109.1	123.1	137.1	148.6	157.5	163.5	168.3	171.3
55°	50.5	63.2	77.9	93.0	107.2	120.8	131.6	139.4	144.7	147.4	149.0
57.5°	36.5	48.0	62.7	77.9	90.7	103.6	112.3	119.4	122.4	124.0	124.7
60°	26.6	37.2	50.3	63.4	75.6	85.9	93.5	98.3	100.6	101.5	101.3
62.5°	19.5	28.7	40.0	51.0	60.9	69.4	75.3	78.5	79.7	80.1	79.5
65°	14.9	22.0	31.7	40.2	47.8	54.0	58.3	60.4	61.1	60.9	60.4
67.5°	11.0	16.5	23.7	30.1	35.6	40.4	42.7	44.6	45.0	44.3	43.6
70°	7.8	12.2	17.2	21.6	25.7	28.5	31.0	31.2	31.2	31.0	30.5
72.5°	5.5	8.5	11.7	14.7	17.2	19.3	20.2	20.9	20.7	20.4	20.0
75°	3.7	5.3	8.5	9.2	11.5	12.2	13.1	13.1	13.3	12.6	12.6
77.5°	2.3	3.7	5.1	6.0	6.9	7.8	8.3	8.3	8.5	8.3	8.3
80°	1.4	2.3	2.8	4.1	4.1	4.8	5.1	5.3	4.8	5.5	4.8
82.5°	0.9	1.4	2.1	2.1	2.5	3.0	3.0	3.2	3.2	3.0	3.0
85°	0.7	0.9	1.1	1.4	1.4	1.6	1.4	1.4	1.6	1.8	1.6
87.5°	0.2	0.5	0.2	0.5	0.5	0.9	0.7	0.7	0.7	0.9	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):**

	165°	170°	175°	180°
0°	432.6	432.6	432.6	432.6
2.5°	433.1	433.3	433.1	433.1
5°	435.2	434.9	435.2	434.7
7.5°	436.8	436.8	436.6	436.6
10°	436.8	435.9	435.9	435.9
12.5°	433.3	432.2	431.5	431.0
15°	427.4	425.3	424.4	424.2
17.5°	419.6	417.7	416.6	415.9
20°	410.6	408.8	407.4	407.6
22.5°	402.8	400.7	399.8	399.4
25°	395.0	392.5	391.8	391.3
27.5°	382.4	381.0	380.3	379.6
30°	363.1	362.4	361.2	362.8
32.5°	340.8	339.6	338.7	339.4
35°	316.2	315.5	316.2	315.8
37.5°	293.7	294.4	295.3	295.8
40°	276.0	278.6	279.5	279.9
42.5°	258.4	261.3	263.2	264.3
45°	236.5	239.5	241.6	243.0
47.5°	214.0	216.6	218.6	218.4
50°	193.6	195.0	195.9	196.8
52.5°	172.9	172.9	173.2	173.2
55°	149.5	149.0	148.8	149.0
57.5°	123.8	123.3	123.1	122.4
60°	100.4	99.0	98.1	98.1
62.5°	78.5	76.9	76.2	76.0
65°	59.0	58.8	57.4	57.2
67.5°	42.7	41.8	40.9	41.1
70°	30.1	28.7	28.7	28.2
72.5°	19.5	18.8	18.6	18.6
75°	12.2	12.2	11.7	12.6
77.5°	8.0	8.0	7.8	8.0
80°	4.8	4.8	4.8	4.6
82.5°	3.0	3.2	3.0	3.0
85°	1.6	1.8	1.4	2.1
87.5°	0.9	1.1	0.9	1.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)