

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: P245496

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245496  
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 EC8B10935 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 993.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 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

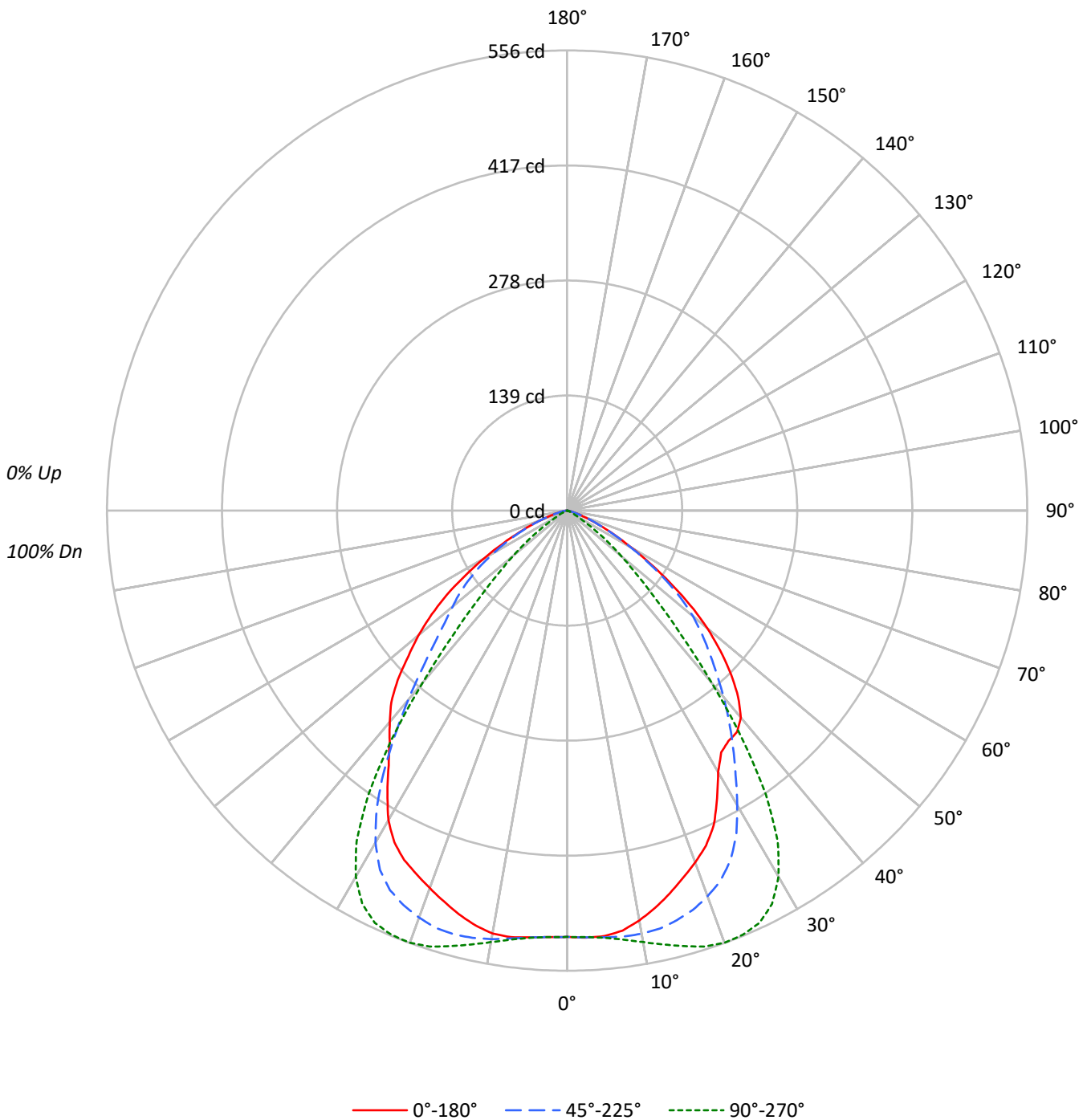
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	15884	15884	15884
5°	15979	16037	16022
10°	15744	16577	16251
15°	15285	17395	16122
20°	14842	18232	15925
25°	14270	18700	15852
30°	12986	18188	15382
35°	12795	15758	14154
40°	13143	10929	13417
45°	12232	6607	12616
50°	10612	4078	11240
55°	8145	2129	9543
60°	5551	857	7203
65°	3451	438	4969
70°	1875	270	3029
75°	977	131	1787
80°	444	142	977
85°	283	106	885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	5.0
10°-20°	146.8	14.8
20°-30°	223.9	22.5
30°-40°	233.6	23.5
40°-50°	175.5	17.7
50°-60°	108.0	10.9
60°-70°	43.9	4.4
70°-80°	10.4	1.0
80°-90°	1.4	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°	420.2	42.3
0°-40°	653.8	65.8
0°-60°	937.3	94.4
0°-90°	993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	993.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	515	515	515	515	515	
5°	516	518	518	518	518	49
15°	479	512	545	530	505	135
25°	419	466	550	506	466	191
35°	340	349	419	387	376	215
45°	280	243	152	226	289	214
55°	152	144	40	144	178	136
65°	47	48	6	64	68	49
75°	8	8	1	14	15	10
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°	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1
2.5°	516.5	515.7	516.5	516.5	516.8	516.2	516.5	516.8	516.2	516.2	516.2
5°	516.2	515.7	516.2	516.0	516.5	516.5	517.1	517.1	517.6	517.6	518.4
7.5°	511.9	510.8	511.9	512.7	513.2	514.3	515.7	516.8	517.9	519.0	520.3
10°	502.8	502.8	503.7	505.3	506.9	508.8	511.3	514.0	516.8	519.2	521.7
12.5°	491.6	490.8	492.4	494.6	497.1	500.1	503.9	508.0	512.4	517.3	521.2
15°	478.8	477.9	479.9	482.0	485.1	489.4	494.1	499.6	505.8	512.4	518.7
17.5°	465.6	465.4	467.3	470.3	472.8	477.4	483.4	490.0	497.1	505.8	514.0
20°	452.3	452.0	453.9	456.4	459.6	464.0	470.0	477.7	486.2	496.0	505.6
22.5°	438.3	438.6	440.2	443.0	445.7	450.3	456.6	464.3	473.6	484.2	494.9
25°	419.4	418.1	420.3	423.0	427.6	431.5	437.5	445.7	455.3	466.5	479.0
27.5°	392.1	391.8	393.7	396.2	400.3	404.9	411.5	420.0	430.1	442.4	454.7
30°	364.7	365.3	366.1	368.6	371.3	376.0	382.5	389.6	399.2	411.0	424.1
32.5°	346.2	346.2	347.3	348.9	350.8	353.3	357.9	363.1	370.5	378.7	388.3
35°	339.9	338.8	339.9	340.1	340.4	341.0	341.8	343.4	345.9	349.4	353.0
37.5°	337.1	336.3	336.3	335.2	333.9	332.2	330.0	327.6	324.8	321.3	318.5
40°	326.5	325.9	325.4	324.3	321.3	318.0	314.4	308.7	302.4	293.7	284.9
42.5°	306.0	305.4	305.1	303.0	300.2	296.4	292.3	286.3	278.4	267.1	254.6
45°	280.5	279.4	278.6	276.7	274.8	271.5	267.7	262.2	254.3	242.8	227.8
47.5°	251.0	250.5	250.2	249.4	247.5	245.5	243.1	238.7	231.6	220.7	205.1
50°	221.2	220.1	220.7	220.4	219.6	218.2	216.6	213.5	208.1	198.2	184.0
52.5°	187.0	187.0	186.8	187.6	187.8	187.6	187.8	184.6	179.9	172.5	160.5
55°	151.5	151.5	152.3	153.4	154.5	154.8	154.5	153.1	149.8	143.8	133.2
57.5°	118.1	117.6	119.2	120.9	122.0	123.0	122.2	121.1	119.2	114.3	106.1
60°	90.0	90.0	91.0	92.1	93.2	94.3	94.1	93.8	92.1	88.9	82.3
62.5°	66.2	66.4	66.4	67.3	68.4	69.5	70.3	69.5	68.6	66.4	62.1
65°	47.3	47.0	47.3	48.1	48.9	50.0	50.6	50.3	49.5	47.8	44.6
67.5°	31.7	31.4	32.5	32.8	33.4	34.5	34.2	34.5	34.2	32.8	30.1
70°	20.8	20.2	20.8	20.5	21.3	21.6	22.1	22.4	22.1	21.3	20.5
72.5°	12.9	12.6	12.9	13.1	13.4	13.7	14.2	14.2	13.9	13.4	12.3
75°	8.2	7.4	7.7	7.1	7.7	7.7	8.2	8.5	8.2	8.2	7.7
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.2	5.5	4.9	4.6
80°	2.5	2.5	2.7	2.7	2.7	3.0	2.7	2.7	2.7	3.0	2.2
82.5°	1.9	1.6	1.6	1.6	1.9	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.8	1.1	0.8	0.5	0.8	0.8	1.1	0.8	0.8	0.8	1.1
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	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°	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1
2.5°	516.5	516.0	516.0	515.7	516.2	515.7	516.0	515.7	515.7	516.2	515.7
5°	518.4	518.7	518.1	517.9	518.7	518.7	518.7	518.1	518.1	518.4	518.1
7.5°	521.2	521.7	522.0	522.2	522.8	523.1	523.1	522.8	522.5	523.3	522.2
10°	524.2	525.0	526.6	527.4	528.8	528.8	529.4	529.4	528.8	529.4	529.1
12.5°	523.1	528.0	530.7	532.6	534.5	536.2	536.7	537.0	536.7	537.8	536.7
15°	525.0	529.1	533.5	536.7	540.3	542.2	542.8	544.9	545.5	545.8	544.1
17.5°	522.0	529.4	534.0	538.9	544.1	547.7	551.0	552.3	552.6	553.1	551.0
20°	515.1	523.3	530.4	537.6	543.6	549.0	551.8	555.6	554.5	556.7	553.7
22.5°	505.8	515.1	524.2	533.5	539.7	546.3	552.1	554.8	556.2	556.2	552.9
25°	491.1	502.0	511.9	521.4	531.0	538.9	545.5	549.6	550.4	550.1	546.3
27.5°	468.1	479.9	491.3	502.3	514.0	523.3	531.0	535.9	537.3	537.3	533.2
30°	436.4	449.0	460.2	473.3	485.3	495.7	506.4	510.8	513.2	513.2	508.6
32.5°	398.7	409.3	419.7	432.6	445.7	457.4	467.6	473.6	476.6	476.3	472.2
35°	357.6	362.8	370.8	380.3	392.1	403.0	412.9	418.6	423.8	423.5	419.7
37.5°	316.6	315.3	316.1	319.6	327.0	334.7	342.3	347.8	352.2	354.1	353.3
40°	276.4	269.3	262.5	260.0	260.6	263.3	267.4	271.5	276.4	278.9	280.0
42.5°	240.3	228.3	216.3	207.3	202.1	200.4	202.3	203.7	206.7	210.3	213.8
45°	211.4	195.2	179.4	165.4	156.7	151.5	150.4	151.5	153.1	156.7	161.3
47.5°	187.6	168.7	150.9	135.3	122.5	115.7	113.7	113.2	114.8	118.1	124.4
50°	166.5	147.6	128.0	109.9	96.5	88.9	86.1	85.0	86.9	89.4	95.1
52.5°	143.5	125.0	104.7	87.2	73.3	65.4	62.3	60.7	61.8	65.1	70.8
55°	118.7	101.4	83.1	65.1	51.7	44.3	40.7	39.6	40.7	44.3	50.0
57.5°	93.8	79.3	64.0	47.0	35.0	27.6	24.1	23.0	26.0	27.3	33.4
60°	73.3	61.5	48.4	34.5	24.1	18.3	14.8	13.9	15.3	17.8	22.7
62.5°	55.0	47.6	37.2	24.6	17.8	11.8	9.8	9.0	9.8	11.8	15.6
65°	39.9	34.2	26.0	18.0	12.0	8.8	6.6	6.0	6.8	8.2	11.5
67.5°	27.3	23.0	18.0	12.6	8.2	5.5	4.6	4.6	4.9	6.0	8.5
70°	17.8	15.0	11.5	8.2	5.5	4.1	3.6	3.0	3.6	4.4	5.7
72.5°	11.2	9.6	7.4	5.7	4.1	3.0	2.5	2.2	2.7	3.3	4.4
75°	6.8	5.2	3.8	3.0	2.2	2.2	2.2	1.1	1.4	2.2	2.7
77.5°	4.1	3.6	3.0	2.5	1.9	1.1	1.1	1.1	1.4	1.6	2.5
80°	2.2	1.9	1.4	1.4	1.1	0.8	1.1	0.8	0.5	1.4	1.6
82.5°	1.4	1.1	1.1	1.1	1.4	0.5	0.8	0.5	0.8	1.1	0.8
85°	0.8	0.8	0.8	0.5	1.4	0.5	0.5	0.3	0.3	0.5	0.5
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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°	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1
2.5°	516.0	515.7	516.0	515.7	515.7	515.7	516.0	516.0	515.7	515.7	516.2
5°	518.1	518.1	518.1	517.9	517.6	517.6	518.1	518.1	517.3	518.1	518.1
7.5°	522.8	522.0	522.8	521.7	521.2	521.4	521.7	521.2	520.6	520.9	520.9
10°	528.8	528.0	528.0	527.2	526.3	525.8	525.3	523.9	522.5	522.2	521.2
12.5°	535.9	534.5	533.7	532.1	530.7	528.8	527.2	525.0	522.2	520.3	518.4
15°	543.0	540.8	538.9	536.2	533.2	529.9	526.3	522.8	518.4	514.6	511.3
17.5°	548.8	545.8	542.2	537.8	533.5	528.5	523.3	518.1	511.9	506.9	503.1
20°	550.7	546.3	541.7	535.9	530.2	523.3	516.8	509.9	502.8	497.6	493.3
22.5°	548.2	543.0	537.3	531.3	523.6	516.2	508.6	500.6	494.4	487.2	483.1
25°	541.4	535.1	528.8	521.7	514.3	506.1	497.9	489.7	482.0	478.2	473.0
27.5°	527.4	520.6	513.8	506.4	497.9	489.7	481.2	473.3	466.7	461.5	458.5
30°	502.8	494.9	487.0	479.0	471.7	463.2	455.3	448.7	442.1	438.0	435.0
32.5°	465.1	458.0	450.1	442.4	435.6	428.5	421.9	416.2	411.5	408.8	406.6
35°	414.2	407.1	401.1	395.7	389.9	386.9	382.8	379.5	377.6	376.5	376.2
37.5°	350.3	346.2	344.2	343.2	342.1	341.2	341.8	343.2	344.2	346.2	348.3
40°	281.9	285.5	286.6	290.4	293.9	298.6	303.8	309.8	314.7	321.0	325.4
42.5°	219.6	226.1	233.8	242.0	250.7	259.2	269.6	279.2	287.9	295.8	302.7
45°	168.7	178.8	190.3	202.1	213.8	226.1	238.7	250.5	260.8	269.3	276.4
47.5°	131.5	142.7	157.5	172.0	186.2	200.7	214.6	226.9	235.7	243.9	250.2
50°	104.2	117.0	133.2	149.8	165.4	180.7	195.5	207.0	215.7	222.3	226.9
52.5°	80.7	96.0	112.4	129.9	146.6	163.2	176.9	187.6	194.7	200.4	204.0
55°	60.2	75.2	92.7	110.7	127.7	143.8	156.7	166.0	172.3	175.5	177.5
57.5°	43.5	57.1	74.6	92.7	108.0	123.3	133.7	142.2	145.7	147.6	148.5
60°	31.7	44.3	59.9	75.5	90.0	102.3	111.3	117.0	119.8	120.9	120.6
62.5°	23.2	34.2	47.6	60.7	72.5	82.6	89.7	93.5	94.9	95.4	94.6
65°	17.8	26.2	37.7	47.8	56.9	64.3	69.5	71.9	72.7	72.5	71.9
67.5°	13.1	19.7	28.2	35.8	42.4	48.1	50.9	53.0	53.6	52.8	52.0
70°	9.3	14.5	20.5	25.7	30.6	33.9	36.9	37.2	37.2	36.9	36.4
72.5°	6.6	10.1	13.9	17.5	20.5	23.0	24.1	24.9	24.6	24.3	23.8
75°	4.4	6.3	10.1	10.9	13.7	14.5	15.6	15.6	15.9	15.0	15.0
77.5°	2.7	4.4	6.0	7.1	8.2	9.3	9.8	9.8	10.1	9.8	9.8
80°	1.6	2.7	3.3	4.9	4.9	5.7	6.0	6.3	5.7	6.6	5.7
82.5°	1.1	1.6	2.5	2.5	3.0	3.6	3.6	3.8	3.8	3.6	3.6
85°	0.8	1.1	1.4	1.6	1.6	1.9	1.6	1.6	1.9	2.2	1.9
87.5°	0.3	0.5	0.3	0.5	0.5	1.1	0.8	0.8	0.8	1.1	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):**

	165°	170°	175°	180°
0°	515.1	515.1	515.1	515.1
2.5°	515.7	516.0	515.7	515.7
5°	518.1	517.9	518.1	517.6
7.5°	520.1	520.1	519.8	519.8
10°	520.1	519.0	519.0	519.0
12.5°	516.0	514.6	513.8	513.2
15°	508.8	506.4	505.3	505.0
17.5°	499.6	497.4	496.0	495.2
20°	488.9	486.7	485.1	485.3
22.5°	479.6	477.1	476.0	475.5
25°	470.3	467.3	466.5	465.9
27.5°	455.3	453.6	452.8	452.0
30°	432.3	431.5	430.1	432.0
32.5°	405.8	404.4	403.3	404.1
35°	376.5	375.7	376.5	376.0
37.5°	349.7	350.5	351.6	352.2
40°	328.7	331.7	332.8	333.3
42.5°	307.6	311.2	313.3	314.7
45°	281.6	285.2	287.6	289.3
47.5°	254.8	257.8	260.3	260.0
50°	230.5	232.1	233.2	234.3
52.5°	205.9	205.9	206.2	206.2
55°	178.0	177.5	177.2	177.5
57.5°	147.4	146.8	146.6	145.7
60°	119.5	117.8	116.8	116.8
62.5°	93.5	91.6	90.8	90.5
65°	70.3	70.0	68.4	68.1
67.5°	50.9	49.8	48.7	48.9
70°	35.8	34.2	34.2	33.6
72.5°	23.2	22.4	22.1	22.1
75°	14.5	14.5	13.9	15.0
77.5°	9.6	9.6	9.3	9.6
80°	5.7	5.7	5.7	5.5
82.5°	3.6	3.8	3.6	3.6
85°	1.9	2.2	1.6	2.5
87.5°	1.1	1.4	1.1	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)