

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: P246120

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246120
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 EC8B10840 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1016.0 lumens
Efficiency: N/A
Efficacy: 99.6 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

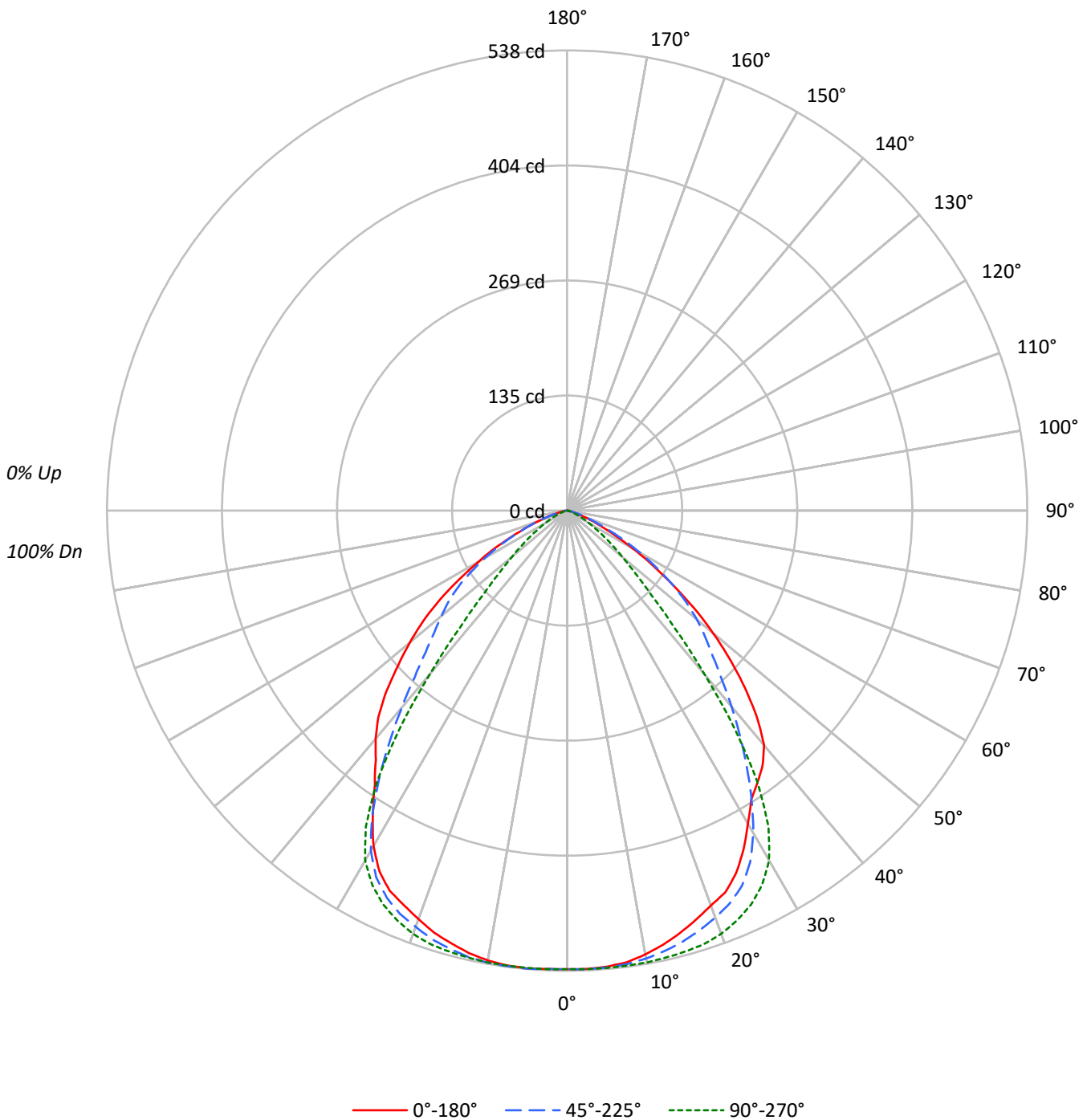
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	66	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	52	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°	16531	16531	16531
5°	16567	16610	16629
10°	16498	16796	16721
15°	16313	17041	16719
20°	16119	17281	16677
25°	15910	17298	16692
30°	15051	16813	16126
35°	14602	14613	14764
40°	14419	10055	14016
45°	12847	6036	13026
50°	10684	4015	11513
55°	8010	2769	9763
60°	5427	1844	7364
65°	3276	1197	5056
70°	1812	649	3110
75°	822	274	1608
80°	710	302	1119
85°	814	389	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	5.0
10°-20°	148.6	14.6
20°-30°	225.5	22.2
30°-40°	236.9	23.3
40°-50°	177.6	17.5
50°-60°	113.9	11.2
60°-70°	48.7	4.8
70°-80°	11.5	1.1
80°-90°	2.1	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°	425.2	41.9
0°-40°	662.1	65.2
0°-60°	953.6	93.9
0°-90°	1016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1016.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	536	536	536	536	536	
5°	535	536	537	538	537	51
15°	511	522	534	530	524	144
25°	468	484	508	499	491	214
35°	388	366	388	384	392	243
45°	295	241	138	234	299	226
55°	149	149	52	155	182	135
65°	45	53	16	68	69	48
75°	7	8	2	14	14	10
85°	2	1	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°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	536.4	536.9	536.6	536.6	536.4	536.6	536.6	537.2	537.2	536.6	536.4
5°	535.2	535.8	535.8	535.2	535.2	536.6	535.8	536.4	536.4	536.1	536.1
7.5°	532.6	532.6	533.8	532.9	532.9	533.8	533.5	534.0	534.6	534.9	534.9
10°	526.9	527.4	527.7	527.7	528.0	528.9	529.4	530.6	531.2	531.7	532.0
12.5°	519.7	520.5	520.8	520.5	521.4	522.5	524.0	525.4	526.3	527.4	528.3
15°	511.0	511.0	511.6	512.5	513.0	514.8	516.2	517.9	520.2	521.7	523.1
17.5°	501.5	502.1	503.0	503.0	504.1	507.0	507.9	510.5	513.0	514.5	517.4
20°	491.2	491.7	492.6	493.2	494.6	496.9	498.7	501.0	503.8	506.4	509.3
22.5°	483.1	482.0	482.5	483.1	484.6	486.6	488.6	491.5	494.3	496.9	499.8
25°	467.6	467.9	468.7	469.3	471.0	472.8	475.1	478.5	481.1	484.0	487.1
27.5°	446.6	446.9	448.3	448.3	449.7	452.6	454.1	456.9	460.4	463.3	467.0
30°	422.7	423.3	423.3	424.4	425.3	426.7	428.2	431.0	432.8	435.4	440.5
32.5°	400.8	401.4	401.1	400.8	400.0	399.7	399.4	400.0	400.5	401.4	403.4
35°	387.9	386.4	385.3	383.3	381.0	378.1	375.5	372.1	368.9	366.3	363.4
37.5°	375.5	375.2	373.5	370.6	366.0	360.8	354.8	347.3	339.8	331.8	324.0
40°	358.2	357.4	355.9	351.9	346.7	340.4	332.3	323.1	311.0	298.7	286.0
42.5°	328.9	329.2	327.4	324.3	319.4	313.3	305.0	294.9	282.0	267.3	250.9
45°	294.6	294.6	294.1	291.5	288.0	283.1	276.8	268.5	255.8	240.8	223.3
47.5°	259.0	259.3	258.4	257.8	256.4	253.2	248.6	242.3	233.4	219.0	201.4
50°	222.7	222.7	224.2	223.9	223.9	222.7	220.7	217.0	209.2	197.7	181.3
52.5°	186.5	187.0	187.9	189.0	190.5	192.8	190.5	188.8	183.9	174.9	160.8
55°	149.0	149.6	151.1	153.1	154.8	157.1	157.7	157.7	155.1	149.0	138.4
57.5°	117.1	116.2	117.4	119.1	121.4	123.7	125.5	127.5	127.2	123.2	114.5
60°	88.0	88.3	89.2	90.9	92.7	94.7	97.0	98.7	99.6	97.5	92.1
62.5°	64.2	64.2	65.3	67.0	67.9	70.8	72.2	73.1	73.9	73.7	70.2
65°	44.9	45.5	46.0	46.9	47.8	49.5	50.4	52.1	52.7	52.9	50.4
67.5°	31.7	30.8	31.4	31.9	32.8	34.0	35.7	35.7	36.5	36.5	34.8
70°	20.1	20.1	20.4	21.3	21.9	22.2	22.7	23.3	24.2	23.9	23.9
72.5°	13.5	13.2	13.5	13.8	14.1	15.0	15.0	15.2	15.8	16.1	15.0
75°	6.9	7.2	7.8	7.5	8.3	7.8	8.1	8.9	8.6	8.1	8.1
77.5°	5.8	5.8	5.8	5.5	6.0	6.0	5.8	6.3	6.0	6.0	5.8
80°	4.0	4.3	4.0	3.7	4.0	3.7	3.7	3.7	3.7	3.7	3.5
82.5°	3.2	2.6	2.9	2.6	2.9	2.9	2.6	2.3	2.3	2.6	2.3
85°	2.3	1.7	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.4	1.4
87.5°	1.4	0.9	0.9	0.9	1.1	1.1	1.1	0.9	1.1	1.1	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°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	536.9	536.6	537.2	536.9	536.9	536.6	536.9	536.6	537.2	536.1	536.4
5°	536.9	536.4	536.6	536.9	537.2	536.6	536.6	536.6	537.2	536.6	536.9
7.5°	535.8	535.5	536.4	536.9	536.6	536.4	536.9	536.6	537.2	536.9	537.5
10°	533.5	533.8	534.3	535.2	535.5	535.8	536.4	536.4	537.2	536.1	536.6
12.5°	530.0	531.2	532.6	533.2	534.3	534.3	534.9	535.2	535.8	535.5	536.4
15°	525.7	527.1	528.9	530.3	531.7	532.6	533.5	533.8	534.6	533.8	534.0
17.5°	520.5	522.2	524.8	526.6	528.9	529.7	530.9	531.5	532.3	531.7	532.0
20°	513.3	515.3	518.2	520.8	522.2	524.3	525.7	526.6	527.1	526.6	526.9
22.5°	503.3	506.1	509.9	511.9	514.8	516.5	516.8	518.8	520.2	518.8	519.4
25°	491.5	494.3	497.2	501.5	504.1	506.1	508.2	508.4	509.9	509.6	509.3
27.5°	471.9	475.6	480.5	484.0	487.4	490.6	492.9	493.5	494.9	494.3	494.6
30°	445.1	449.2	453.8	459.2	464.1	467.3	470.2	472.2	473.6	472.8	472.5
32.5°	407.2	411.2	416.1	421.5	427.3	431.9	435.4	437.9	439.7	439.1	437.7
35°	363.7	364.9	368.0	372.3	377.2	382.1	385.3	388.2	390.2	390.8	390.8
37.5°	319.1	315.4	313.1	313.1	315.9	318.0	320.8	322.6	325.7	326.9	327.7
40°	275.9	267.3	259.3	253.2	249.2	248.9	248.9	249.8	252.6	256.4	259.8
42.5°	237.4	223.6	211.2	200.0	191.9	187.3	185.3	185.6	187.9	191.3	197.1
45°	206.6	189.3	173.8	160.3	149.3	142.1	138.7	138.4	140.1	144.2	150.5
47.5°	182.7	164.3	146.7	131.2	119.4	111.6	107.6	106.5	107.6	111.4	118.8
50°	162.9	143.9	125.7	109.6	97.0	88.9	85.2	83.7	85.2	88.3	95.8
52.5°	144.4	124.9	107.9	92.4	78.8	71.9	67.9	67.0	67.9	71.6	77.7
55°	123.2	106.5	89.8	74.2	62.4	55.5	52.4	51.5	52.4	55.8	62.2
57.5°	102.2	87.8	73.1	59.0	48.9	42.9	40.0	38.8	40.9	43.2	50.6
60°	82.6	71.1	58.7	46.3	38.0	32.5	30.2	29.9	30.5	33.4	38.6
62.5°	64.7	55.2	45.5	35.4	28.5	26.2	23.3	23.0	23.6	25.3	29.4
65°	46.6	40.6	33.1	25.9	20.4	17.3	16.1	16.4	17.0	18.1	21.9
67.5°	32.5	28.2	23.0	18.1	14.1	12.7	11.5	11.2	11.5	13.5	15.5
70°	21.9	19.3	15.5	13.8	9.8	7.8	8.1	7.2	8.3	8.3	10.1
72.5°	14.4	12.7	10.4	8.1	6.9	5.5	5.5	5.2	5.8	6.0	7.5
75°	7.5	5.8	5.8	4.0	2.9	1.4	2.6	2.3	2.0	2.3	2.9
77.5°	5.2	4.3	4.0	3.2	2.9	2.3	2.3	2.3	2.3	2.6	2.9
80°	3.2	3.2	2.3	2.0	1.7	1.4	1.7	1.7	1.7	1.7	2.0
82.5°	2.0	1.7	1.7	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.7
85°	1.7	1.1	1.1	0.9	1.1	2.0	0.9	1.1	1.1	1.1	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.4	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	536.9	537.2	537.2	536.9	536.9	536.4	537.5	536.6	536.9	538.1	537.2
5°	537.5	537.8	537.8	537.5	537.5	537.5	537.8	537.8	537.5	537.2	537.8
7.5°	538.7	538.4	538.4	537.8	537.8	537.2	537.8	536.9	537.5	536.9	537.8
10°	537.2	537.5	537.2	536.9	536.9	536.6	536.6	535.8	536.1	535.2	535.8
12.5°	536.4	536.1	536.1	535.5	534.9	534.3	534.0	533.2	533.2	531.2	532.0
15°	534.0	534.3	533.5	532.3	531.7	530.3	529.7	528.6	527.4	526.0	526.3
17.5°	532.0	531.2	530.0	528.9	526.6	525.4	524.3	522.5	522.0	520.2	519.7
20°	526.0	525.4	524.0	522.0	520.5	517.9	516.8	515.1	513.6	511.9	511.0
22.5°	518.2	517.6	515.9	513.9	511.6	510.5	509.3	506.1	504.7	503.0	502.7
25°	508.4	507.6	505.9	503.5	502.4	499.2	498.1	495.8	495.2	493.5	493.2
27.5°	493.5	492.3	490.3	487.4	485.4	483.4	482.3	480.5	480.0	478.2	477.9
30°	471.0	469.6	465.6	464.4	461.0	458.9	458.9	456.6	456.9	455.8	455.8
32.5°	435.6	433.3	430.2	427.9	425.6	424.4	424.4	423.6	424.1	424.1	424.7
35°	388.7	385.6	383.8	382.4	382.4	383.6	387.0	387.9	389.6	391.0	392.2
37.5°	328.6	328.3	330.3	332.1	336.4	341.3	347.3	352.5	357.4	360.8	364.3
40°	263.6	270.8	276.5	284.6	291.2	300.7	311.6	320.5	328.9	334.9	341.3
42.5°	205.7	214.9	227.0	238.8	250.6	263.6	278.0	290.3	301.3	309.6	316.2
45°	160.3	172.9	187.6	202.6	217.8	233.9	248.9	261.6	273.1	281.7	288.3
47.5°	129.2	143.0	159.7	176.1	193.4	210.3	227.0	238.0	247.5	254.4	260.4
50°	106.7	121.4	139.0	157.7	174.9	191.9	206.3	217.0	224.7	230.8	234.5
52.5°	89.2	104.7	123.4	142.1	159.4	174.9	187.9	196.0	202.3	206.6	210.0
55°	73.7	88.6	106.2	123.7	140.7	155.4	166.0	172.1	177.0	179.5	181.6
57.5°	60.1	73.9	90.1	106.2	120.9	132.9	141.3	147.3	149.6	151.6	151.4
60°	47.2	60.1	74.8	88.6	101.3	111.1	117.1	120.6	122.3	123.2	122.6
62.5°	37.1	48.9	60.1	72.2	81.4	89.8	95.5	95.5	96.4	96.7	97.5
65°	27.6	36.5	46.3	55.2	62.7	68.2	71.4	72.2	73.4	73.1	72.5
67.5°	20.4	27.0	34.2	40.9	46.0	49.5	51.8	53.8	53.5	52.9	52.7
70°	14.1	18.4	24.7	28.8	32.5	36.0	36.5	36.8	37.1	37.4	36.8
72.5°	9.8	12.9	16.4	19.9	22.2	23.6	25.0	25.3	25.3	25.3	25.0
75°	4.9	6.6	9.8	11.2	13.2	13.8	15.0	15.0	15.8	14.7	14.4
77.5°	4.3	5.2	6.9	8.1	8.9	9.8	10.1	10.9	10.6	10.1	10.4
80°	2.6	3.2	4.3	4.9	6.0	6.3	6.6	6.9	6.6	6.9	6.9
82.5°	2.0	2.3	2.9	2.9	3.7	3.7	4.0	4.0	4.3	4.3	4.3
85°	1.1	2.0	1.7	3.5	2.3	2.3	2.9	3.5	2.9	2.9	3.5
87.5°	1.1	1.1	0.9	1.1	1.1	1.1	1.4	1.7	1.7	2.0	1.7
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°	536.1	536.1	536.1	536.1
2.5°	536.9	537.5	536.6	536.4
5°	537.8	537.8	537.2	537.2
7.5°	537.8	537.8	536.9	536.4
10°	535.5	535.5	534.6	534.0
12.5°	531.2	531.2	530.9	530.0
15°	525.7	525.7	524.6	523.7
17.5°	518.2	518.8	517.4	517.4
20°	510.2	509.9	508.7	508.2
22.5°	501.8	501.2	501.0	499.2
25°	492.9	492.3	491.5	490.6
27.5°	477.7	477.4	476.5	475.4
30°	454.3	454.1	452.9	452.9
32.5°	424.1	423.8	422.7	423.0
35°	392.8	393.9	393.3	392.2
37.5°	366.6	367.4	368.0	367.4
40°	344.7	347.3	347.6	348.2
42.5°	321.4	324.9	326.0	326.6
45°	293.5	296.7	299.3	298.7
47.5°	265.0	267.3	269.6	267.9
50°	237.7	239.1	240.0	240.0
52.5°	211.8	211.8	211.5	211.8
55°	182.1	182.1	181.0	181.6
57.5°	151.1	151.6	150.8	149.3
60°	122.3	120.9	120.3	119.4
62.5°	95.2	95.2	93.2	95.8
65°	71.4	70.5	69.6	69.3
67.5°	51.8	51.5	50.6	50.4
70°	36.5	35.4	35.1	34.5
72.5°	24.5	24.5	23.9	23.9
75°	15.0	13.5	13.2	13.5
77.5°	10.4	10.1	10.1	9.8
80°	6.9	6.6	7.2	6.3
82.5°	4.3	4.6	4.3	4.6
85°	2.9	3.5	3.2	3.2
87.5°	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)