

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: P246228

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246228
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 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1054.0 lumens
Efficiency: N/A
Efficacy: 103.3 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

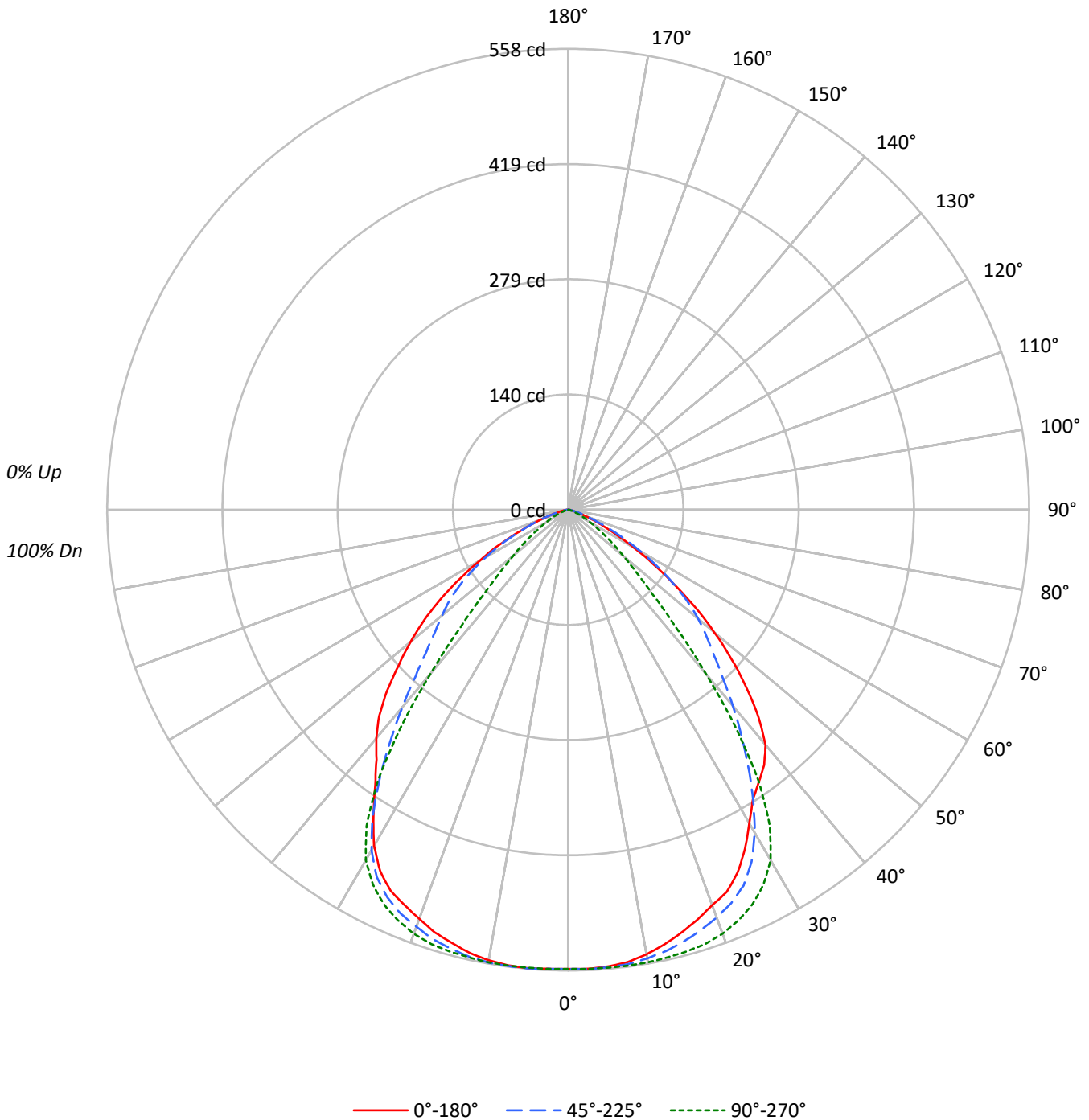
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	17148	17148	17148
5°	17186	17232	17251
10°	17115	17422	17347
15°	16923	17676	17344
20°	16719	17927	17300
25°	16505	17948	17315
30°	15614	17440	16728
35°	15148	15159	15317
40°	14958	10430	14540
45°	13331	6262	13510
50°	11082	4169	11945
55°	8312	2871	10129
60°	5631	1912	7641
65°	3400	1240	5246
70°	1884	676	3228
75°	858	286	1668
80°	746	320	1172
85°	849	425	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	5.0
10°-20°	154.1	14.6
20°-30°	233.9	22.2
30°-40°	245.7	23.3
40°-50°	184.2	17.5
50°-60°	118.2	11.2
60°-70°	50.6	4.8
70°-80°	12.0	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°	441.1	41.9
0°-40°	686.9	65.2
0°-60°	989.3	93.9
0°-90°	1054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	556	556	556	556	556	
5°	555	556	557	558	557	53
15°	530	541	554	550	543	150
25°	485	502	528	518	509	222
35°	402	380	403	398	407	253
45°	306	250	144	243	310	234
55°	155	155	53	161	188	140
65°	47	55	17	71	72	50
75°	7	8	2	14	14	10
85°	2	2	1	2	3	3
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°	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1
2.5°	556.4	557.0	556.7	556.7	556.4	556.7	556.7	557.3	557.3	556.7	556.4
5°	555.2	555.8	555.8	555.2	555.2	556.7	555.8	556.4	556.4	556.1	556.1
7.5°	552.5	552.5	553.7	552.8	552.8	553.7	553.4	554.0	554.6	554.9	554.9
10°	546.6	547.2	547.5	547.5	547.8	548.6	549.2	550.4	551.0	551.6	551.9
12.5°	539.1	540.0	540.3	540.0	540.9	542.1	543.6	545.1	546.0	547.2	548.1
15°	530.1	530.1	530.7	531.6	532.2	534.0	535.5	537.3	539.7	541.2	542.7
17.5°	520.3	520.9	521.8	521.8	523.0	526.0	526.9	529.5	532.2	533.7	536.7
20°	509.5	510.1	511.0	511.6	513.1	515.5	517.3	519.7	522.7	525.4	528.3
22.5°	501.2	500.0	500.6	501.2	502.7	504.8	506.9	509.8	512.8	515.5	518.5
25°	485.1	485.4	486.3	486.9	488.7	490.4	492.8	496.4	499.1	502.1	505.4
27.5°	463.3	463.6	465.1	465.1	466.6	469.5	471.0	474.0	477.6	480.6	484.5
30°	438.5	439.1	439.1	440.3	441.2	442.7	444.2	447.2	448.9	451.6	457.0
32.5°	415.8	416.4	416.1	415.8	414.9	414.6	414.3	414.9	415.5	416.4	418.5
35°	402.4	400.9	399.7	397.6	395.2	392.2	389.5	386.0	382.7	380.0	377.0
37.5°	389.5	389.2	387.5	384.5	379.7	374.3	368.1	360.3	352.5	344.2	336.1
40°	371.6	370.7	369.2	365.1	359.7	353.1	344.8	335.2	322.7	309.8	296.7
42.5°	341.2	341.5	339.7	336.4	331.3	325.1	316.4	306.0	292.5	277.3	260.3
45°	305.7	305.7	305.1	302.4	298.8	293.7	287.2	278.5	265.4	249.8	231.6
47.5°	268.7	269.0	268.1	267.5	266.0	262.7	257.9	251.3	242.1	227.2	208.9
50°	231.0	231.0	232.5	232.2	232.2	231.0	229.0	225.1	217.0	205.1	188.1
52.5°	193.4	194.0	194.9	196.1	197.6	200.0	197.6	195.8	190.7	181.5	166.9
55°	154.6	155.2	156.7	158.8	160.6	163.0	163.6	163.6	160.9	154.6	143.6
57.5°	121.5	120.6	121.8	123.6	126.0	128.4	130.1	132.2	131.9	127.8	118.8
60°	91.3	91.6	92.5	94.3	96.1	98.2	100.6	102.4	103.3	101.2	95.5
62.5°	66.6	66.6	67.8	69.5	70.4	73.4	74.9	75.8	76.7	76.4	72.8
65°	46.6	47.2	47.8	48.7	49.5	51.3	52.2	54.0	54.6	54.9	52.2
67.5°	32.8	31.9	32.5	33.1	34.0	35.2	37.0	37.0	37.9	37.9	36.1
70°	20.9	20.9	21.2	22.1	22.7	23.0	23.6	24.2	25.1	24.8	24.8
72.5°	14.0	13.7	14.0	14.3	14.6	15.5	15.5	15.8	16.4	16.7	15.5
75°	7.2	7.5	8.1	7.8	8.7	8.1	8.4	9.3	9.0	8.4	8.4
77.5°	6.0	6.0	6.0	5.7	6.3	6.3	6.0	6.6	6.3	6.3	6.0
80°	4.2	4.5	4.2	3.9	4.2	3.9	3.9	3.9	3.9	3.9	3.6
82.5°	3.3	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°	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1
2.5°	557.0	556.7	557.3	557.0	557.0	556.7	557.0	556.7	557.3	556.1	556.4
5°	557.0	556.4	556.7	557.0	557.3	556.7	556.7	556.7	557.3	556.7	557.0
7.5°	555.8	555.5	556.4	557.0	556.7	556.4	557.0	556.7	557.3	557.0	557.6
10°	553.4	553.7	554.3	555.2	555.5	555.8	556.4	556.4	557.3	556.1	556.7
12.5°	549.8	551.0	552.5	553.1	554.3	554.3	554.9	555.2	555.8	555.5	556.4
15°	545.4	546.9	548.6	550.1	551.6	552.5	553.4	553.7	554.6	553.7	554.0
17.5°	540.0	541.8	544.5	546.3	548.6	549.5	550.7	551.3	552.2	551.6	551.9
20°	532.5	534.6	537.6	540.3	541.8	543.9	545.4	546.3	546.9	546.3	546.6
22.5°	522.1	525.1	528.9	531.0	534.0	535.8	536.1	538.2	539.7	538.2	538.8
25°	509.8	512.8	515.8	520.3	523.0	525.1	527.2	527.5	528.9	528.6	528.3
27.5°	489.5	493.4	498.5	502.1	505.7	508.9	511.3	511.9	513.4	512.8	513.1
30°	461.8	466.0	470.7	476.4	481.5	484.8	487.8	489.8	491.3	490.4	490.1
32.5°	422.4	426.6	431.6	437.3	443.3	448.1	451.6	454.3	456.1	455.5	454.0
35°	377.3	378.5	381.8	386.3	391.3	396.4	399.7	402.7	404.8	405.4	405.4
37.5°	331.0	327.2	324.8	324.8	327.8	329.8	332.8	334.6	337.9	339.1	340.0
40°	286.3	277.3	269.0	262.7	258.5	258.2	258.2	259.1	262.1	266.0	269.6
42.5°	246.3	231.9	219.1	207.5	199.1	194.3	192.2	192.5	194.9	198.5	204.5
45°	214.3	196.4	180.3	166.3	154.9	147.5	143.9	143.6	145.4	149.5	156.1
47.5°	189.6	170.4	152.2	136.1	123.9	115.8	111.6	110.4	111.6	115.5	123.3
50°	169.0	149.3	130.4	113.7	100.6	92.2	88.4	86.9	88.4	91.6	99.4
52.5°	149.8	129.5	111.9	95.8	81.8	74.6	70.4	69.5	70.4	74.3	80.6
55°	127.8	110.4	93.1	77.0	64.8	57.6	54.3	53.4	54.3	57.9	64.5
57.5°	106.0	91.0	75.8	61.2	50.7	44.5	41.5	40.3	42.4	44.8	52.5
60°	85.7	73.7	60.9	48.1	39.4	33.7	31.3	31.0	31.6	34.6	40.0
62.5°	67.2	57.3	47.2	36.7	29.6	27.2	24.2	23.9	24.5	26.3	30.4
65°	48.4	42.1	34.3	26.9	21.2	17.9	16.7	17.0	17.6	18.8	22.7
67.5°	33.7	29.3	23.9	18.8	14.6	13.1	11.9	11.6	11.9	14.0	16.1
70°	22.7	20.0	16.1	14.3	10.2	8.1	8.4	7.5	8.7	8.7	10.4
72.5°	14.9	13.1	10.7	8.4	7.2	5.7	5.7	5.4	6.0	6.3	7.8
75°	7.8	6.0	6.0	4.2	3.0	1.5	2.7	2.4	2.1	2.4	3.0
77.5°	5.4	4.5	4.2	3.3	3.0	2.4	2.4	2.4	2.4	2.7	3.0
80°	3.3	3.3	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°	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1	556.1
2.5°	557.0	557.3	557.3	557.0	557.0	556.4	557.6	556.7	557.0	558.2	557.3
5°	557.6	557.9	557.9	557.6	557.6	557.6	557.9	557.9	557.6	557.3	557.9
7.5°	558.8	558.5	558.5	557.9	557.9	557.3	557.9	557.0	557.6	557.0	557.9
10°	557.3	557.6	557.3	557.0	557.0	556.7	556.7	555.8	556.1	555.2	555.8
12.5°	556.4	556.1	556.1	555.5	554.9	554.3	554.0	553.1	553.1	551.0	551.9
15°	554.0	554.3	553.4	552.2	551.6	550.1	549.5	548.3	547.2	545.7	546.0
17.5°	551.9	551.0	549.8	548.6	546.3	545.1	543.9	542.1	541.5	539.7	539.1
20°	545.7	545.1	543.6	541.5	540.0	537.3	536.1	534.3	532.8	531.0	530.1
22.5°	537.6	537.0	535.2	533.1	530.7	529.5	528.3	525.1	523.6	521.8	521.5
25°	527.5	526.6	524.8	522.4	521.2	517.9	516.7	514.3	513.7	511.9	511.6
27.5°	511.9	510.7	508.7	505.7	503.6	501.5	500.3	498.5	497.9	496.1	495.8
30°	488.7	487.2	483.0	481.8	478.2	476.1	476.1	473.7	474.0	472.8	472.8
32.5°	451.9	449.5	446.3	443.9	441.5	440.3	440.3	439.4	440.0	440.0	440.6
35°	403.3	400.0	398.2	396.7	396.7	397.9	401.5	402.4	404.2	405.7	406.9
37.5°	340.9	340.6	342.7	344.5	349.0	354.0	360.3	365.7	370.7	374.3	377.9
40°	273.4	280.9	286.9	295.2	302.1	311.9	323.3	332.5	341.2	347.5	354.0
42.5°	213.4	223.0	235.5	247.8	260.0	273.4	288.4	301.2	312.5	321.2	328.1
45°	166.3	179.4	194.6	210.1	226.0	242.7	258.2	271.3	283.3	292.2	299.1
47.5°	134.0	148.4	165.7	182.7	200.6	218.2	235.5	246.9	256.7	263.9	270.1
50°	110.7	126.0	144.2	163.6	181.5	199.1	214.0	225.1	233.1	239.4	243.3
52.5°	92.5	108.7	128.1	147.5	165.4	181.5	194.9	203.3	209.8	214.3	217.9
55°	76.4	91.9	110.1	128.4	146.0	161.2	172.2	178.5	183.6	186.3	188.4
57.5°	62.4	76.7	93.4	110.1	125.4	137.9	146.6	152.8	155.2	157.3	157.0
60°	49.0	62.4	77.6	91.9	105.1	115.2	121.5	125.1	126.9	127.8	127.2
62.5°	38.5	50.7	62.4	74.9	84.5	93.1	99.1	99.1	100.0	100.3	101.2
65°	28.7	37.9	48.1	57.3	65.1	70.7	74.0	74.9	76.1	75.8	75.2
67.5°	21.2	28.1	35.5	42.4	47.8	51.3	53.7	55.8	55.5	54.9	54.6
70°	14.6	19.1	25.7	29.9	33.7	37.3	37.9	38.2	38.5	38.8	38.2
72.5°	10.2	13.4	17.0	20.6	23.0	24.5	26.0	26.3	26.3	26.3	26.0
75°	5.1	6.9	10.2	11.6	13.7	14.3	15.5	15.5	16.4	15.2	14.9
77.5°	4.5	5.4	7.2	8.4	9.3	10.2	10.4	11.3	11.0	10.4	10.7
80°	2.7	3.3	4.5	5.1	6.3	6.6	6.9	7.2	6.9	7.2	7.2
82.5°	2.1	2.4	3.0	3.0	3.9	3.9	4.2	4.2	4.5	4.5	4.5
85°	1.2	2.1	1.8	3.6	2.4	2.4	3.0	3.6	3.0	3.0	3.6
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°	556.1	556.1	556.1	556.1
2.5°	557.0	557.6	556.7	556.4
5°	557.9	557.9	557.3	557.3
7.5°	557.9	557.9	557.0	556.4
10°	555.5	555.5	554.6	554.0
12.5°	551.0	551.0	550.7	549.8
15°	545.4	545.4	544.2	543.3
17.5°	537.6	538.2	536.7	536.7
20°	529.2	528.9	527.8	527.2
22.5°	520.6	520.0	519.7	517.9
25°	511.3	510.7	509.8	508.9
27.5°	495.5	495.2	494.3	493.1
30°	471.3	471.0	469.8	469.8
32.5°	440.0	439.7	438.5	438.8
35°	407.5	408.7	408.1	406.9
37.5°	380.3	381.2	381.8	381.2
40°	357.6	360.3	360.6	361.2
42.5°	333.4	337.0	338.2	338.8
45°	304.5	307.8	310.4	309.8
47.5°	274.9	277.3	279.7	277.9
50°	246.6	248.1	249.0	249.0
52.5°	219.7	219.7	219.4	219.7
55°	189.0	189.0	187.8	188.4
57.5°	156.7	157.3	156.4	154.9
60°	126.9	125.4	124.8	123.9
62.5°	98.8	98.8	96.7	99.4
65°	74.0	73.1	72.2	71.9
67.5°	53.7	53.4	52.5	52.2
70°	37.9	36.7	36.4	35.8
72.5°	25.4	25.4	24.8	24.8
75°	15.5	14.0	13.7	14.0
77.5°	10.7	10.4	10.4	10.2
80°	7.2	6.9	7.5	6.6
82.5°	4.5	4.8	4.5	4.8
85°	3.0	3.6	3.3	3.3
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)