

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: P246198

Luminaire Tested: **LSR8B10D010 EC8B10850 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246198
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 EC8B10850 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1158.0 lumens
Efficiency: N/A
Efficacy: 113.5 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

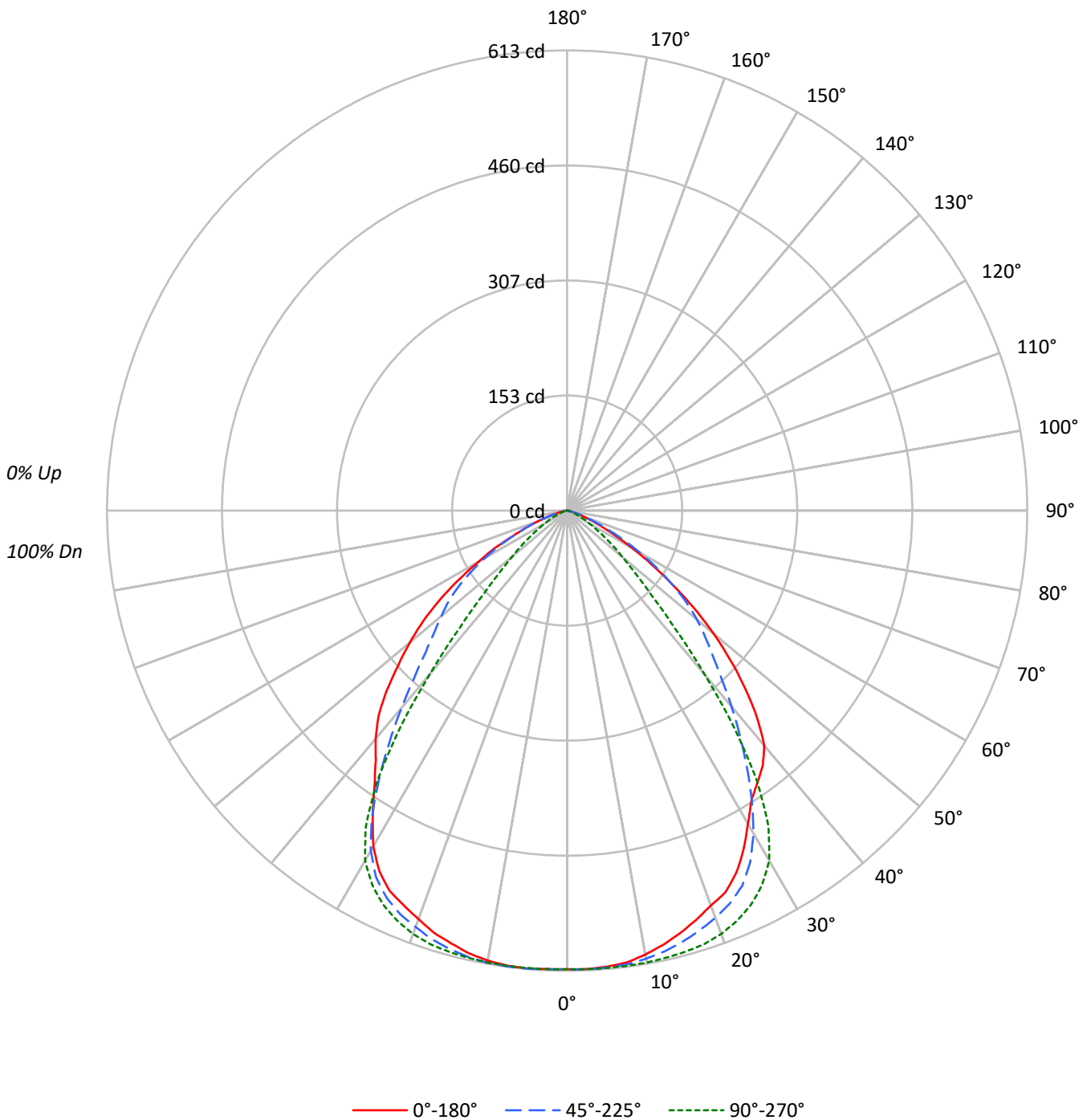
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	18841	18841	18841
5°	18882	18932	18953
10°	18803	19141	19060
15°	18593	19423	19055
20°	18370	19696	19007
25°	18131	19717	19026
30°	17155	19164	18380
35°	16642	16654	16827
40°	16436	11460	15973
45°	14644	6877	14845
50°	12175	4577	13121
55°	9134	3156	11123
60°	6192	2103	8394
65°	3736	1364	5764
70°	2074	739	3552
75°	941	310	1835
80°	817	355	1279
85°	920	460	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	5.0
10°-20°	169.3	14.6
20°-30°	257.0	22.2
30°-40°	270.0	23.3
40°-50°	202.4	17.5
50°-60°	129.9	11.2
60°-70°	55.6	4.8
70°-80°	13.1	1.1
80°-90°	2.4	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°	484.7	41.9
0°-40°	754.6	65.2
0°-60°	1086.9	93.9
0°-90°	1158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	611	611	611	611	611	
5°	610	611	612	613	612	58
15°	582	595	608	604	597	164
25°	533	552	580	569	559	243
35°	442	418	442	437	447	277
45°	336	274	158	267	340	257
55°	170	170	59	177	207	154
65°	51	60	19	78	79	55
75°	8	9	3	16	15	11
85°	3	2	1	3	4	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°	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0
2.5°	611.3	612.0	611.6	611.6	611.3	611.6	611.6	612.3	612.3	611.6	611.3
5°	610.0	610.7	610.7	610.0	610.0	611.6	610.7	611.3	611.3	611.0	611.0
7.5°	607.1	607.1	608.4	607.4	607.4	608.4	608.0	608.7	609.3	609.7	609.7
10°	600.5	601.1	601.5	601.5	601.8	602.8	603.4	604.8	605.4	606.1	606.4
12.5°	592.3	593.3	593.6	593.3	594.3	595.6	597.2	598.9	599.8	601.1	602.1
15°	582.4	582.4	583.1	584.1	584.8	586.7	588.4	590.3	592.9	594.6	596.2
17.5°	571.6	572.3	573.3	573.3	574.6	577.9	578.8	581.8	584.8	586.4	589.7
20°	559.8	560.5	561.5	562.1	563.8	566.4	568.3	571.0	574.3	577.2	580.5
22.5°	550.6	549.3	550.0	550.6	552.3	554.6	556.9	560.1	563.4	566.4	569.7
25°	532.9	533.3	534.2	534.9	536.9	538.8	541.5	545.4	548.3	551.6	555.2
27.5°	509.0	509.3	511.0	511.0	512.6	515.9	517.5	520.8	524.7	528.0	532.3
30°	481.8	482.4	482.4	483.7	484.7	486.4	488.0	491.3	493.2	496.2	502.1
32.5°	456.8	457.5	457.2	456.8	455.9	455.5	455.2	455.9	456.5	457.5	459.8
35°	442.1	440.4	439.1	436.8	434.2	430.9	428.0	424.1	420.4	417.5	414.2
37.5°	428.0	427.7	425.7	422.4	417.2	411.3	404.4	395.8	387.3	378.1	369.3
40°	408.3	407.3	405.7	401.1	395.2	388.0	378.8	368.3	354.5	340.4	326.0
42.5°	374.9	375.2	373.2	369.6	364.0	357.1	347.6	336.2	321.4	304.7	286.0
45°	335.8	335.8	335.2	332.2	328.3	322.7	315.5	306.0	291.6	274.5	254.5
47.5°	295.2	295.5	294.5	293.9	292.2	288.6	283.4	276.1	266.0	249.6	229.6
50°	253.8	253.8	255.5	255.1	255.1	253.8	251.5	247.3	238.4	225.3	206.6
52.5°	212.5	213.2	214.2	215.5	217.1	219.7	217.1	215.1	209.6	199.4	183.3
55°	169.9	170.5	172.2	174.5	176.4	179.1	179.7	179.7	176.8	169.9	157.7
57.5°	133.5	132.5	133.8	135.8	138.4	141.0	143.0	145.3	145.0	140.4	130.5
60°	100.4	100.7	101.7	103.6	105.6	107.9	110.5	112.5	113.5	111.2	104.9
62.5°	73.1	73.1	74.4	76.4	77.4	80.7	82.3	83.3	84.3	84.0	80.0
65°	51.2	51.8	52.5	53.5	54.4	56.4	57.4	59.4	60.0	60.3	57.4
67.5°	36.1	35.1	35.7	36.4	37.4	38.7	40.7	40.7	41.6	41.6	39.7
70°	23.0	23.0	23.3	24.3	24.9	25.3	25.9	26.6	27.5	27.2	27.2
72.5°	15.4	15.1	15.4	15.7	16.1	17.1	17.1	17.4	18.0	18.4	17.1
75°	7.9	8.2	8.9	8.5	9.5	8.9	9.2	10.2	9.8	9.2	9.2
77.5°	6.6	6.6	6.6	6.2	6.9	6.9	6.6	7.2	6.9	6.9	6.6
80°	4.6	4.9	4.6	4.3	4.6	4.3	4.3	4.3	4.3	4.3	3.9
82.5°	3.6	3.0	3.3	3.0	3.3	3.3	3.0	2.6	2.6	3.0	2.6
85°	2.6	2.0	2.3	2.3	2.0	2.0	2.0	2.0	2.0	1.6	1.6
87.5°	1.6	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	0.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0
2.5°	612.0	611.6	612.3	612.0	612.0	611.6	612.0	611.6	612.3	611.0	611.3
5°	612.0	611.3	611.6	612.0	612.3	611.6	611.6	611.6	612.3	611.6	612.0
7.5°	610.7	610.3	611.3	612.0	611.6	611.3	612.0	611.6	612.3	612.0	612.6
10°	608.0	608.4	609.0	610.0	610.3	610.7	611.3	611.3	612.3	611.0	611.6
12.5°	604.1	605.4	607.1	607.7	609.0	609.0	609.7	610.0	610.7	610.3	611.3
15°	599.2	600.8	602.8	604.4	606.1	607.1	608.0	608.4	609.3	608.4	608.7
17.5°	593.3	595.2	598.2	600.2	602.8	603.8	605.1	605.7	606.7	606.1	606.4
20°	585.1	587.4	590.6	593.6	595.2	597.5	599.2	600.2	600.8	600.2	600.5
22.5°	573.6	576.9	581.1	583.4	586.7	588.7	589.0	591.3	592.9	591.3	592.0
25°	560.1	563.4	566.7	571.6	574.6	576.9	579.2	579.5	581.1	580.8	580.5
27.5°	537.8	542.1	547.7	551.6	555.6	559.2	561.8	562.4	564.1	563.4	563.8
30°	507.3	511.9	517.2	523.4	529.0	532.6	535.9	538.2	539.8	538.8	538.5
32.5°	464.1	468.7	474.2	480.5	487.0	492.3	496.2	499.2	501.1	500.5	498.8
35°	414.5	415.8	419.5	424.4	429.9	435.5	439.1	442.4	444.7	445.4	445.4
37.5°	363.7	359.4	356.8	356.8	360.1	362.4	365.7	367.6	371.2	372.6	373.5
40°	314.5	304.7	295.5	288.6	284.0	283.7	283.7	284.7	287.9	292.2	296.1
42.5°	270.6	254.8	240.7	227.9	218.7	213.5	211.2	211.5	214.2	218.1	224.6
45°	235.5	215.8	198.1	182.7	170.2	162.0	158.1	157.7	159.7	164.3	171.5
47.5°	208.3	187.3	167.3	149.5	136.1	127.2	122.7	121.3	122.7	126.9	135.4
50°	185.6	164.0	143.3	125.0	110.5	101.3	97.1	95.4	97.1	100.7	109.2
52.5°	164.6	142.3	123.0	105.3	89.9	82.0	77.4	76.4	77.4	81.7	88.6
55°	140.4	121.3	102.3	84.6	71.2	63.3	59.7	58.7	59.7	63.6	70.8
57.5°	116.4	100.0	83.3	67.2	55.8	48.9	45.6	44.3	46.6	49.2	57.7
60°	94.1	81.0	66.9	52.8	43.3	37.1	34.4	34.1	34.8	38.0	43.9
62.5°	73.8	63.0	51.8	40.3	32.5	29.8	26.6	26.2	26.9	28.9	33.5
65°	53.1	46.2	37.7	29.5	23.3	19.7	18.4	18.7	19.3	20.7	24.9
67.5°	37.1	32.1	26.2	20.7	16.1	14.4	13.1	12.8	13.1	15.4	17.7
70°	24.9	22.0	17.7	15.7	11.2	8.9	9.2	8.2	9.5	9.5	11.5
72.5°	16.4	14.4	11.8	9.2	7.9	6.2	6.2	5.9	6.6	6.9	8.5
75°	8.5	6.6	6.6	4.6	3.3	1.6	3.0	2.6	2.3	2.6	3.3
77.5°	5.9	4.9	4.6	3.6	3.3	2.6	2.6	2.6	2.6	3.0	3.3
80°	3.6	3.6	2.6	2.3	2.0	1.6	2.0	2.0	2.0	2.0	2.3
82.5°	2.3	2.0	2.0	1.6	1.6	1.3	1.3	1.3	1.3	1.3	2.0
85°	2.0	1.3	1.3	1.0	1.3	2.3	1.0	1.3	1.3	1.3	1.0
87.5°	0.7	1.0	1.0	1.0	0.7	0.3	0.7	1.0	1.0	1.6	1.3
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°	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0
2.5°	612.0	612.3	612.3	612.0	612.0	611.3	612.6	611.6	612.0	613.3	612.3
5°	612.6	612.9	612.9	612.6	612.6	612.6	612.9	612.9	612.6	612.3	612.9
7.5°	613.9	613.6	613.6	612.9	612.9	612.3	612.9	612.0	612.6	612.0	612.9
10°	612.3	612.6	612.3	612.0	612.0	611.6	611.6	610.7	611.0	610.0	610.7
12.5°	611.3	611.0	611.0	610.3	609.7	609.0	608.7	607.7	607.7	605.4	606.4
15°	608.7	609.0	608.0	606.7	606.1	604.4	603.8	602.5	601.1	599.5	599.8
17.5°	606.4	605.4	604.1	602.8	600.2	598.9	597.5	595.6	594.9	592.9	592.3
20°	599.5	598.9	597.2	594.9	593.3	590.3	589.0	587.0	585.4	583.4	582.4
22.5°	590.6	590.0	588.0	585.7	583.1	581.8	580.5	576.9	575.2	573.3	572.9
25°	579.5	578.5	576.6	573.9	572.6	569.0	567.7	565.1	564.4	562.4	562.1
27.5°	562.4	561.1	558.8	555.6	553.3	551.0	549.7	547.7	547.0	545.1	544.7
30°	536.9	535.2	530.6	529.3	525.4	523.1	523.1	520.5	520.8	519.5	519.5
32.5°	496.5	493.9	490.3	487.7	485.0	483.7	483.7	482.8	483.4	483.4	484.1
35°	443.1	439.5	437.5	435.9	435.9	437.2	441.1	442.1	444.1	445.7	447.0
37.5°	374.5	374.2	376.5	378.5	383.4	389.0	395.8	401.8	407.3	411.3	415.2
40°	300.4	308.6	315.2	324.4	331.9	342.7	355.2	365.3	374.9	381.7	389.0
42.5°	234.5	245.0	258.8	272.2	285.7	300.4	316.8	330.9	343.4	352.9	360.4
45°	182.7	197.1	213.8	230.9	248.3	266.6	283.7	298.1	311.2	321.1	328.6
47.5°	147.3	163.0	182.0	200.7	220.4	239.7	258.8	271.2	282.0	289.9	296.8
50°	121.7	138.4	158.4	179.7	199.4	218.7	235.1	247.3	256.1	263.0	267.3
52.5°	101.7	119.4	140.7	162.0	181.7	199.4	214.2	223.3	230.6	235.5	239.4
55°	84.0	101.0	121.0	141.0	160.4	177.1	189.2	196.1	201.7	204.6	206.9
57.5°	68.5	84.3	102.7	121.0	137.7	151.5	161.0	167.9	170.5	172.8	172.5
60°	53.8	68.5	85.3	101.0	115.4	126.6	133.5	137.4	139.4	140.4	139.7
62.5°	42.3	55.8	68.5	82.3	92.8	102.3	108.9	108.9	109.9	110.2	111.2
65°	31.5	41.6	52.8	63.0	71.5	77.7	81.3	82.3	83.6	83.3	82.6
67.5°	23.3	30.8	39.0	46.6	52.5	56.4	59.0	61.3	61.0	60.3	60.0
70°	16.1	21.0	28.2	32.8	37.1	41.0	41.6	42.0	42.3	42.6	42.0
72.5°	11.2	14.8	18.7	22.6	25.3	26.9	28.5	28.9	28.9	28.9	28.5
75°	5.6	7.5	11.2	12.8	15.1	15.7	17.1	17.1	18.0	16.7	16.4
77.5°	4.9	5.9	7.9	9.2	10.2	11.2	11.5	12.5	12.1	11.5	11.8
80°	3.0	3.6	4.9	5.6	6.9	7.2	7.5	7.9	7.5	7.9	7.9
82.5°	2.3	2.6	3.3	3.3	4.3	4.3	4.6	4.6	4.9	4.9	4.9
85°	1.3	2.3	2.0	3.9	2.6	2.6	3.3	3.9	3.3	3.3	3.9
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	2.0	2.0	2.3	2.0
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):

	165°	170°	175°	180°
0°	611.0	611.0	611.0	611.0
2.5°	612.0	612.6	611.6	611.3
5°	612.9	612.9	612.3	612.3
7.5°	612.9	612.9	612.0	611.3
10°	610.3	610.3	609.3	608.7
12.5°	605.4	605.4	605.1	604.1
15°	599.2	599.2	597.9	596.9
17.5°	590.6	591.3	589.7	589.7
20°	581.5	581.1	579.8	579.2
22.5°	572.0	571.3	571.0	569.0
25°	561.8	561.1	560.1	559.2
27.5°	544.4	544.1	543.1	541.8
30°	517.8	517.5	516.2	516.2
32.5°	483.4	483.1	481.8	482.1
35°	447.7	449.0	448.3	447.0
37.5°	417.8	418.8	419.5	418.8
40°	392.9	395.8	396.2	396.8
42.5°	366.3	370.3	371.6	372.2
45°	334.5	338.1	341.1	340.4
47.5°	302.0	304.7	307.3	305.3
50°	270.9	272.5	273.5	273.5
52.5°	241.4	241.4	241.1	241.4
55°	207.6	207.6	206.3	206.9
57.5°	172.2	172.8	171.8	170.2
60°	139.4	137.7	137.1	136.1
62.5°	108.6	108.6	106.3	109.2
65°	81.3	80.4	79.4	79.0
67.5°	59.0	58.7	57.7	57.4
70°	41.6	40.3	40.0	39.4
72.5°	27.9	27.9	27.2	27.2
75°	17.1	15.4	15.1	15.4
77.5°	11.8	11.5	11.5	11.2
80°	7.9	7.5	8.2	7.2
82.5°	4.9	5.2	4.9	5.2
85°	3.3	3.9	3.6	3.6
87.5°	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)