

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: P244632

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244632
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 EC8B10935 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 986.0 lumens
Efficiency: N/A
Efficacy: 96.7 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

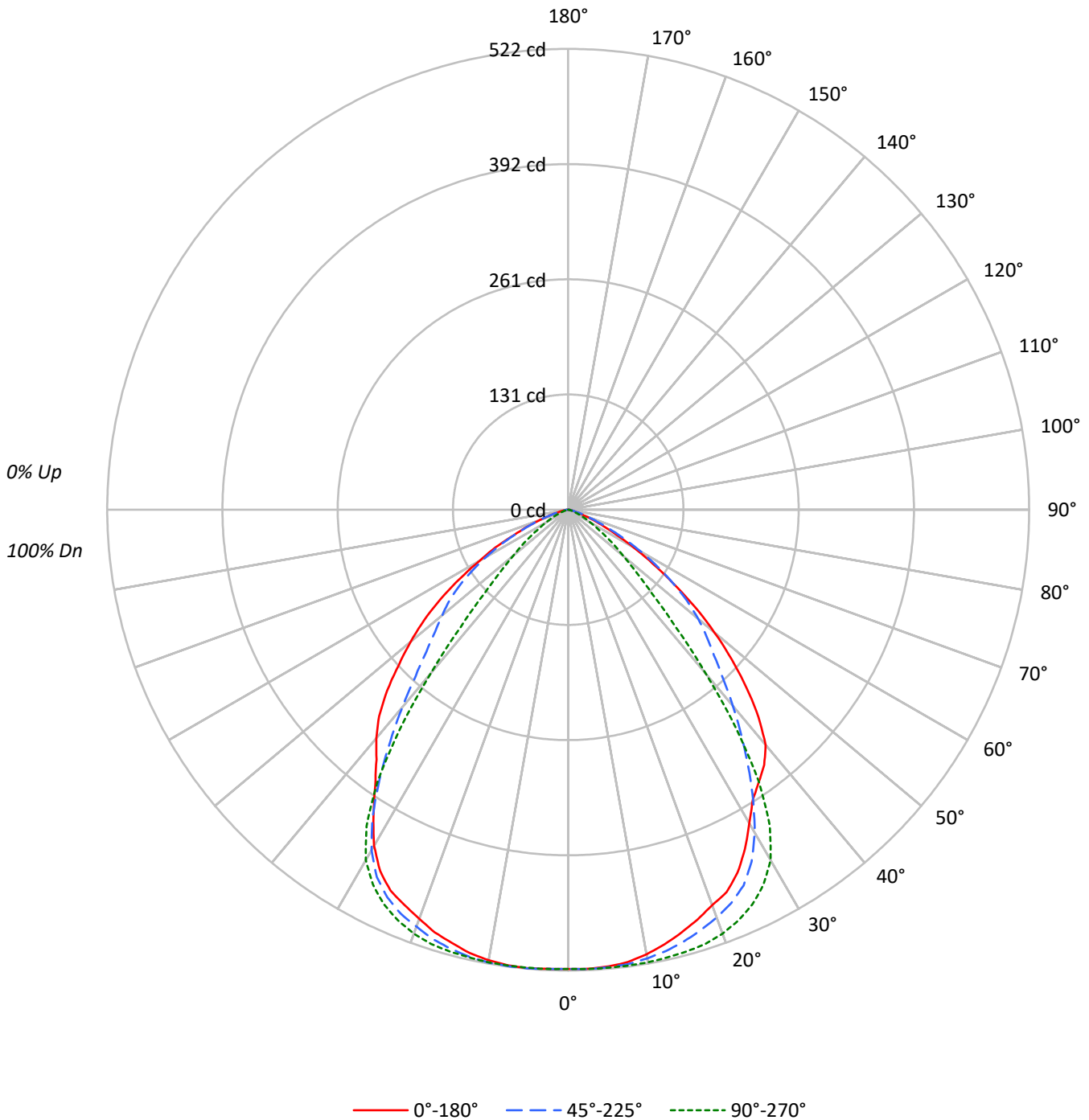
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16041	16041	16041
5°	16078	16121	16139
10°	16010	16298	16229
15°	15831	16537	16224
20°	15643	16769	16181
25°	15440	16787	16199
30°	14606	16315	15649
35°	14169	14181	14327
40°	13996	9758	13602
45°	12468	5857	12642
50°	10367	3900	11173
55°	7774	2688	9473
60°	5267	1789	7148
65°	3181	1160	4911
70°	1758	631	3020
75°	798	262	1561
80°	693	302	1083
85°	778	389	1097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	5.0
10°-20°	144.2	14.6
20°-30°	218.8	22.2
30°-40°	229.9	23.3
40°-50°	172.3	17.5
50°-60°	110.6	11.2
60°-70°	47.3	4.8
70°-80°	11.2	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°	412.7	41.9
0°-40°	642.5	65.2
0°-60°	925.4	93.9
0°-90°	986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	986.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	520	520	520	520	520	
5°	519	520	521	522	521	49
15°	496	506	518	515	508	140
25°	454	470	493	484	476	207
35°	376	356	377	372	381	236
45°	286	234	134	227	290	219
55°	145	145	50	151	176	131
65°	44	51	16	66	67	47
75°	7	8	2	13	13	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°	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2
2.5°	520.5	521.1	520.8	520.8	520.5	520.8	520.8	521.4	521.4	520.8	520.5
5°	519.4	520.0	520.0	519.4	519.4	520.8	520.0	520.5	520.5	520.2	520.2
7.5°	516.9	516.9	518.0	517.2	517.2	518.0	517.7	518.3	518.8	519.1	519.1
10°	511.3	511.9	512.1	512.1	512.4	513.3	513.8	514.9	515.5	516.0	516.3
12.5°	504.3	505.2	505.4	505.2	506.0	507.1	508.5	509.9	510.7	511.9	512.7
15°	495.9	495.9	496.5	497.3	497.9	499.6	501.0	502.6	504.9	506.3	507.7
17.5°	486.7	487.3	488.1	488.1	489.2	492.0	492.9	495.4	497.9	499.3	502.1
20°	476.7	477.2	478.1	478.6	480.0	482.3	483.9	486.2	489.0	491.5	494.3
22.5°	468.9	467.7	468.3	468.9	470.3	472.2	474.2	476.9	479.7	482.3	485.1
25°	453.8	454.1	454.9	455.4	457.1	458.8	461.0	464.4	466.9	469.7	472.8
27.5°	433.4	433.7	435.1	435.1	436.5	439.3	440.6	443.4	446.8	449.6	453.2
30°	410.2	410.8	410.8	411.9	412.7	414.1	415.5	418.3	420.0	422.5	427.5
32.5°	389.0	389.5	389.3	389.0	388.2	387.9	387.6	388.2	388.7	389.5	391.5
35°	376.4	375.0	373.9	372.0	369.7	366.9	364.4	361.1	358.0	355.5	352.7
37.5°	364.4	364.1	362.5	359.7	355.2	350.2	344.3	337.0	329.8	322.0	314.4
40°	347.7	346.8	345.4	341.5	336.5	330.3	322.5	313.6	301.9	289.9	277.6
42.5°	319.2	319.5	317.8	314.7	310.0	304.1	296.0	286.2	273.7	259.4	243.5
45°	285.9	285.9	285.4	282.9	279.5	274.8	268.6	260.5	248.3	233.7	216.7
47.5°	251.3	251.6	250.8	250.2	248.8	245.7	241.3	235.1	226.5	212.5	195.5
50°	216.1	216.1	217.5	217.3	217.3	216.1	214.2	210.5	203.0	191.8	175.9
52.5°	180.9	181.5	182.4	183.5	184.9	187.1	184.9	183.2	178.4	169.8	156.1
55°	144.6	145.2	146.6	148.6	150.2	152.5	153.0	153.0	150.5	144.6	134.3
57.5°	113.7	112.8	113.9	115.6	117.8	120.1	121.8	123.7	123.4	119.5	111.1
60°	85.4	85.7	86.6	88.2	89.9	91.9	94.1	95.8	96.6	94.7	89.4
62.5°	62.3	62.3	63.4	65.1	65.9	68.7	70.1	70.9	71.8	71.5	68.1
65°	43.6	44.1	44.7	45.5	46.4	48.0	48.9	50.5	51.1	51.4	48.9
67.5°	30.7	29.9	30.4	31.0	31.8	33.0	34.6	34.6	35.5	35.5	33.8
70°	19.5	19.5	19.8	20.7	21.2	21.5	22.1	22.6	23.5	23.2	23.2
72.5°	13.1	12.8	13.1	13.4	13.7	14.5	14.5	14.8	15.4	15.6	14.5
75°	6.7	7.0	7.5	7.3	8.1	7.5	7.8	8.7	8.4	7.8	7.8
77.5°	5.6	5.6	5.6	5.3	5.9	5.9	5.6	6.1	5.9	5.9	5.6
80°	3.9	4.2	3.9	3.6	3.9	3.6	3.6	3.6	3.6	3.6	3.3
82.5°	3.1	2.5	2.8	2.5	2.8	2.8	2.5	2.2	2.2	2.5	2.2
85°	2.2	1.7	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.4	1.4
87.5°	1.4	0.8	0.8	0.8	1.1	1.1	1.1	0.8	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°	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2
2.5°	521.1	520.8	521.4	521.1	521.1	520.8	521.1	520.8	521.4	520.2	520.5
5°	521.1	520.5	520.8	521.1	521.4	520.8	520.8	520.8	521.4	520.8	521.1
7.5°	520.0	519.7	520.5	521.1	520.8	520.5	521.1	520.8	521.4	521.1	521.6
10°	517.7	518.0	518.6	519.4	519.7	520.0	520.5	520.5	521.4	520.2	520.8
12.5°	514.4	515.5	516.9	517.4	518.6	518.6	519.1	519.4	520.0	519.7	520.5
15°	510.2	511.6	513.3	514.7	516.0	516.9	517.7	518.0	518.8	518.0	518.3
17.5°	505.2	506.8	509.3	511.0	513.3	514.1	515.2	515.8	516.6	516.0	516.3
20°	498.2	500.1	502.9	505.4	506.8	508.8	510.2	511.0	511.6	511.0	511.3
22.5°	488.4	491.2	494.8	496.8	499.6	501.2	501.5	503.5	504.9	503.5	504.0
25°	476.9	479.7	482.5	486.7	489.2	491.2	493.1	493.4	494.8	494.5	494.3
27.5°	458.0	461.6	466.3	469.7	473.0	476.1	478.3	478.9	480.3	479.7	480.0
30°	432.0	435.9	440.4	445.7	450.4	453.5	456.3	458.2	459.6	458.8	458.5
32.5°	395.1	399.0	403.8	409.1	414.7	419.1	422.5	425.0	426.7	426.1	424.7
35°	353.0	354.1	357.2	361.3	366.1	370.8	373.9	376.7	378.7	379.2	379.2
37.5°	309.7	306.1	303.8	303.8	306.6	308.6	311.4	313.0	316.1	317.2	318.1
40°	267.8	259.4	251.6	245.7	241.8	241.5	241.5	242.4	245.2	248.8	252.2
42.5°	230.4	217.0	205.0	194.1	186.3	181.8	179.8	180.1	182.4	185.7	191.3
45°	200.5	183.7	168.7	155.5	144.9	137.9	134.6	134.3	136.0	139.9	146.0
47.5°	177.3	159.4	142.4	127.3	115.9	108.3	104.4	103.3	104.4	108.1	115.3
50°	158.1	139.6	122.0	106.4	94.1	86.3	82.7	81.3	82.7	85.7	93.0
52.5°	140.2	121.2	104.7	89.6	76.5	69.8	65.9	65.1	65.9	69.5	75.4
55°	119.5	103.3	87.1	72.0	60.6	53.9	50.8	50.0	50.8	54.2	60.3
57.5°	99.1	85.2	70.9	57.2	47.5	41.6	38.8	37.7	39.7	41.9	49.1
60°	80.1	69.0	57.0	45.0	36.9	31.6	29.3	29.0	29.6	32.4	37.4
62.5°	62.8	53.6	44.1	34.3	27.6	25.4	22.6	22.3	22.9	24.6	28.5
65°	45.2	39.4	32.1	25.1	19.8	16.8	15.6	15.9	16.5	17.6	21.2
67.5°	31.6	27.4	22.3	17.6	13.7	12.3	11.2	10.9	11.2	13.1	15.1
70°	21.2	18.7	15.1	13.4	9.5	7.5	7.8	7.0	8.1	8.1	9.8
72.5°	14.0	12.3	10.1	7.8	6.7	5.3	5.3	5.0	5.6	5.9	7.3
75°	7.3	5.6	5.6	3.9	2.8	1.4	2.5	2.2	2.0	2.2	2.8
77.5°	5.0	4.2	3.9	3.1	2.8	2.2	2.2	2.2	2.2	2.5	2.8
80°	3.1	3.1	2.2	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	0.8	1.1	2.0	0.8	1.1	1.1	1.1	0.8
87.5°	0.6	0.8	0.8	0.8	0.6	0.3	0.6	0.8	0.8	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°	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2
2.5°	521.1	521.4	521.4	521.1	521.1	520.5	521.6	520.8	521.1	522.2	521.4
5°	521.6	521.9	521.9	521.6	521.6	521.6	521.9	521.9	521.6	521.4	521.9
7.5°	522.7	522.5	522.5	521.9	521.9	521.4	521.9	521.1	521.6	521.1	521.9
10°	521.4	521.6	521.4	521.1	521.1	520.8	520.8	520.0	520.2	519.4	520.0
12.5°	520.5	520.2	520.2	519.7	519.1	518.6	518.3	517.4	517.4	515.5	516.3
15°	518.3	518.6	517.7	516.6	516.0	514.7	514.1	513.0	511.9	510.5	510.7
17.5°	516.3	515.5	514.4	513.3	511.0	509.9	508.8	507.1	506.5	504.9	504.3
20°	510.5	509.9	508.5	506.5	505.2	502.6	501.5	499.9	498.5	496.8	495.9
22.5°	502.9	502.4	500.7	498.7	496.5	495.4	494.3	491.2	489.8	488.1	487.8
25°	493.4	492.6	490.9	488.7	487.6	484.5	483.4	481.1	480.6	478.9	478.6
27.5°	478.9	477.8	475.8	473.0	471.1	469.1	468.0	466.3	465.8	464.1	463.8
30°	457.1	455.7	451.8	450.7	447.3	445.4	445.4	443.2	443.4	442.3	442.3
32.5°	422.8	420.5	417.5	415.2	413.0	411.9	411.9	411.0	411.6	411.6	412.2
35°	377.3	374.2	372.5	371.1	371.1	372.2	375.6	376.4	378.1	379.5	380.6
37.5°	318.9	318.6	320.6	322.2	326.4	331.2	337.0	342.1	346.8	350.2	353.5
40°	255.8	262.8	268.4	276.2	282.6	291.8	302.4	311.1	319.2	325.0	331.2
42.5°	199.7	208.6	220.3	231.8	243.2	255.8	269.8	281.8	292.4	300.5	306.9
45°	155.5	167.8	182.1	196.6	211.4	227.0	241.5	253.8	265.0	273.4	279.8
47.5°	125.4	138.8	155.0	170.9	187.7	204.1	220.3	230.9	240.1	246.9	252.7
50°	103.6	117.8	134.9	153.0	169.8	186.3	200.2	210.5	218.1	224.0	227.6
52.5°	86.6	101.6	119.8	137.9	154.7	169.8	182.4	190.2	196.3	200.5	203.8
55°	71.5	86.0	103.0	120.1	136.6	150.8	161.1	167.0	171.7	174.2	176.2
57.5°	58.4	71.8	87.4	103.0	117.3	129.0	137.1	143.0	145.2	147.2	146.9
60°	45.8	58.4	72.6	86.0	98.3	107.8	113.7	117.0	118.7	119.5	119.0
62.5°	36.0	47.5	58.4	70.1	79.0	87.1	92.7	92.7	93.5	93.8	94.7
65°	26.8	35.5	45.0	53.6	60.9	66.2	69.3	70.1	71.2	70.9	70.4
67.5°	19.8	26.3	33.2	39.7	44.7	48.0	50.3	52.2	51.9	51.4	51.1
70°	13.7	17.9	24.0	27.9	31.6	34.9	35.5	35.7	36.0	36.3	35.7
72.5°	9.5	12.6	15.9	19.3	21.5	22.9	24.3	24.6	24.6	24.6	24.3
75°	4.7	6.4	9.5	10.9	12.8	13.4	14.5	14.5	15.4	14.2	14.0
77.5°	4.2	5.0	6.7	7.8	8.7	9.5	9.8	10.6	10.3	9.8	10.1
80°	2.5	3.1	4.2	4.7	5.9	6.1	6.4	6.7	6.4	6.7	6.7
82.5°	2.0	2.2	2.8	2.8	3.6	3.6	3.9	3.9	4.2	4.2	4.2
85°	1.1	2.0	1.7	3.3	2.2	2.2	2.8	3.3	2.8	2.8	3.3
87.5°	1.1	1.1	0.8	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°	520.2	520.2	520.2	520.2
2.5°	521.1	521.6	520.8	520.5
5°	521.9	521.9	521.4	521.4
7.5°	521.9	521.9	521.1	520.5
10°	519.7	519.7	518.8	518.3
12.5°	515.5	515.5	515.2	514.4
15°	510.2	510.2	509.1	508.2
17.5°	502.9	503.5	502.1	502.1
20°	495.1	494.8	493.7	493.1
22.5°	487.0	486.4	486.2	484.5
25°	478.3	477.8	476.9	476.1
27.5°	463.5	463.3	462.4	461.3
30°	440.9	440.6	439.5	439.5
32.5°	411.6	411.3	410.2	410.5
35°	381.2	382.3	381.7	380.6
37.5°	355.8	356.6	357.2	356.6
40°	334.5	337.0	337.3	337.9
42.5°	311.9	315.3	316.4	316.9
45°	284.8	287.9	290.4	289.9
47.5°	257.2	259.4	261.7	260.0
50°	230.7	232.1	232.9	232.9
52.5°	205.5	205.5	205.2	205.5
55°	176.8	176.8	175.6	176.2
57.5°	146.6	147.2	146.3	144.9
60°	118.7	117.3	116.7	115.9
62.5°	92.4	92.4	90.5	93.0
65°	69.3	68.4	67.6	67.3
67.5°	50.3	50.0	49.1	48.9
70°	35.5	34.3	34.1	33.5
72.5°	23.7	23.7	23.2	23.2
75°	14.5	13.1	12.8	13.1
77.5°	10.1	9.8	9.8	9.5
80°	6.7	6.4	7.0	6.1
82.5°	4.2	4.5	4.2	4.5
85°	2.8	3.3	3.1	3.1
87.5°	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)