

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: P246145

Luminaire Tested: **LSR8B15D010 EC8B15935 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246145
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: LSR8B15D010 EC8B15935 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1182.0 lumens
Efficiency: N/A
Efficacy: 82.1 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

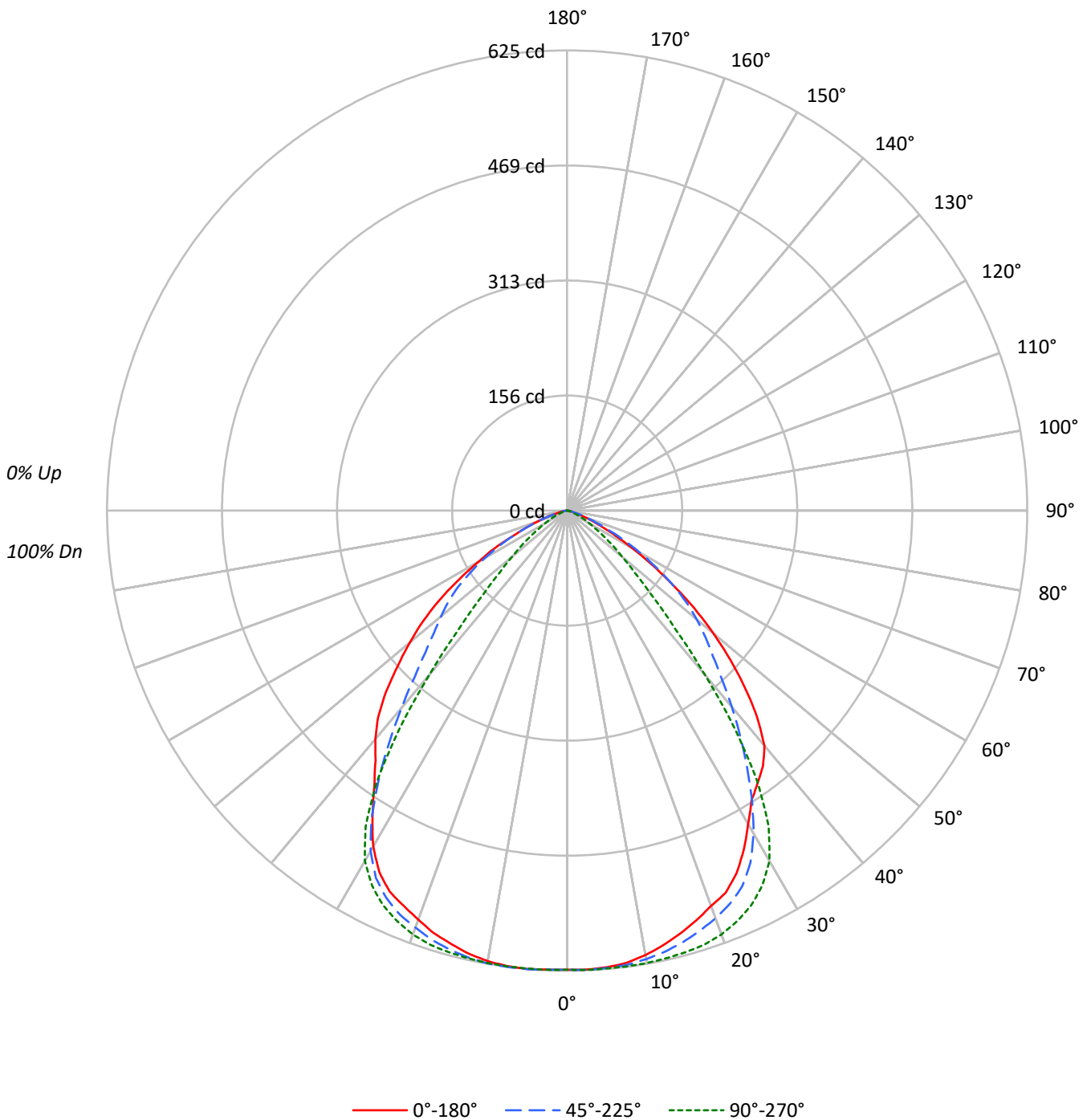
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19230	19230	19230
5°	19272	19325	19346
10°	19191	19539	19454
15°	18979	19825	19451
20°	18751	20103	19400
25°	18509	20125	19421
30°	17511	19559	18761
35°	16989	17000	17177
40°	16778	11698	16307
45°	14949	7021	15154
50°	12430	4673	13394
55°	9322	3220	11354
60°	6315	2146	8566
65°	3809	1394	5888
70°	2110	757	3624
75°	953	322	1871
80°	835	355	1314
85°	955	460	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	5.0
10°-20°	172.8	14.6
20°-30°	262.4	22.2
30°-40°	275.6	23.3
40°-50°	206.6	17.5
50°-60°	132.5	11.2
60°-70°	56.7	4.8
70°-80°	13.4	1.1
80°-90°	2.5	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°	494.7	41.9
0°-40°	770.3	65.2
0°-60°	1109.4	93.9
0°-90°	1182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	624	624	624	624	624	
5°	623	624	624	625	625	59
15°	594	607	621	617	609	168
25°	544	563	592	581	571	249
35°	451	426	452	446	456	283
45°	343	280	161	272	348	263
55°	173	173	60	181	211	157
65°	52	62	19	79	81	56
75°	8	9	3	16	16	12
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°	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6
2.5°	624.0	624.7	624.3	624.3	624.0	624.3	624.3	625.0	625.0	624.3	624.0
5°	622.6	623.3	623.3	622.6	622.6	624.3	623.3	624.0	624.0	623.6	623.6
7.5°	619.6	619.6	621.0	620.0	620.0	621.0	620.6	621.3	622.0	622.3	622.3
10°	612.9	613.6	613.9	613.9	614.3	615.3	615.9	617.3	618.0	618.6	619.0
12.5°	604.6	605.6	605.9	605.6	606.6	607.9	609.6	611.3	612.3	613.6	614.6
15°	594.5	594.5	595.2	596.2	596.9	598.9	600.5	602.6	605.2	606.9	608.6
17.5°	583.5	584.1	585.1	585.1	586.5	589.8	590.8	593.9	596.9	598.5	601.9
20°	571.4	572.1	573.1	573.8	575.4	578.1	580.1	582.8	586.2	589.2	592.5
22.5°	562.1	560.7	561.4	562.1	563.7	566.1	568.4	571.8	575.1	578.1	581.5
25°	544.0	544.3	545.3	546.0	548.0	550.0	552.7	556.7	559.7	563.1	566.7
27.5°	519.5	519.9	521.5	521.5	523.2	526.6	528.2	531.6	535.6	539.0	543.3
30°	491.8	492.4	492.4	493.8	494.8	496.4	498.1	501.5	503.5	506.5	512.5
32.5°	466.3	467.0	466.6	466.3	465.3	465.0	464.6	465.3	466.0	467.0	469.3
35°	451.3	449.6	448.2	445.9	443.2	439.9	436.9	432.8	429.2	426.1	422.8
37.5°	436.9	436.5	434.5	431.2	425.8	419.8	412.8	404.0	395.3	386.0	376.9
40°	416.8	415.8	414.1	409.4	403.4	396.0	386.6	375.9	361.9	347.5	332.7
42.5°	382.6	383.0	381.0	377.3	371.6	364.5	354.8	343.1	328.1	311.0	291.9
45°	342.8	342.8	342.1	339.1	335.1	329.4	322.0	312.3	297.6	280.2	259.8
47.5°	301.3	301.6	300.6	299.9	298.3	294.6	289.2	281.9	271.5	254.7	234.3
50°	259.1	259.1	260.8	260.4	260.4	259.1	256.8	252.4	243.4	230.0	210.9
52.5°	216.9	217.6	218.6	219.9	221.6	224.3	221.6	219.6	213.9	203.5	187.1
55°	173.4	174.1	175.7	178.1	180.1	182.8	183.4	183.4	180.4	173.4	161.0
57.5°	136.2	135.2	136.6	138.6	141.3	143.9	146.0	148.3	148.0	143.3	133.2
60°	102.4	102.8	103.8	105.8	107.8	110.1	112.8	114.8	115.8	113.5	107.1
62.5°	74.7	74.7	76.0	78.0	79.0	82.4	84.0	85.0	86.0	85.7	81.7
65°	52.2	52.9	53.6	54.6	55.6	57.6	58.6	60.6	61.3	61.6	58.6
67.5°	36.8	35.8	36.5	37.2	38.2	39.5	41.5	41.5	42.5	42.5	40.5
70°	23.4	23.4	23.8	24.8	25.4	25.8	26.4	27.1	28.1	27.8	27.8
72.5°	15.7	15.4	15.7	16.1	16.4	17.4	17.4	17.7	18.4	18.7	17.4
75°	8.0	8.4	9.0	8.7	9.7	9.0	9.4	10.4	10.0	9.4	9.4
77.5°	6.7	6.7	6.7	6.4	7.0	7.0	6.7	7.4	7.0	7.0	6.7
80°	4.7	5.0	4.7	4.3	4.7	4.3	4.3	4.3	4.3	4.3	4.0
82.5°	3.7	3.0	3.3	3.0	3.3	3.3	3.0	2.7	2.7	3.0	2.7
85°	2.7	2.0	2.3	2.3	2.0	2.0	2.0	2.0	2.0	1.7	1.7
87.5°	1.7	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°	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6
2.5°	624.7	624.3	625.0	624.7	624.7	624.3	624.7	624.3	625.0	623.6	624.0
5°	624.7	624.0	624.3	624.7	625.0	624.3	624.3	624.3	625.0	624.3	624.7
7.5°	623.3	623.0	624.0	624.7	624.3	624.0	624.7	624.3	625.0	624.7	625.3
10°	620.6	621.0	621.6	622.6	623.0	623.3	624.0	624.0	625.0	623.6	624.3
12.5°	616.6	618.0	619.6	620.3	621.6	621.6	622.3	622.6	623.3	623.0	624.0
15°	611.6	613.3	615.3	617.0	618.6	619.6	620.6	621.0	622.0	621.0	621.3
17.5°	605.6	607.6	610.6	612.6	615.3	616.3	617.6	618.3	619.3	618.6	619.0
20°	597.2	599.5	602.9	605.9	607.6	609.9	611.6	612.6	613.3	612.6	612.9
22.5°	585.5	588.8	593.2	595.5	598.9	600.9	601.2	603.6	605.2	603.6	604.2
25°	571.8	575.1	578.5	583.5	586.5	588.8	591.2	591.5	593.2	592.8	592.5
27.5°	549.0	553.4	559.0	563.1	567.1	570.8	573.4	574.1	575.8	575.1	575.4
30°	517.9	522.6	527.9	534.3	540.0	543.6	547.0	549.3	551.0	550.0	549.7
32.5°	473.7	478.4	484.1	490.4	497.1	502.5	506.5	509.5	511.5	510.8	509.2
35°	423.1	424.5	428.2	433.2	438.9	444.6	448.2	451.6	453.9	454.6	454.6
37.5°	371.2	366.9	364.2	364.2	367.6	369.9	373.3	375.3	378.9	380.3	381.3
40°	321.0	311.0	301.6	294.6	289.9	289.6	289.6	290.6	293.9	298.3	302.3
42.5°	276.2	260.1	245.7	232.7	223.3	217.9	215.6	215.9	218.6	222.6	229.3
45°	240.4	220.3	202.2	186.5	173.7	165.4	161.4	161.0	163.0	167.7	175.1
47.5°	212.6	191.1	170.7	152.6	138.9	129.9	125.2	123.9	125.2	129.5	138.3
50°	189.5	167.4	146.3	127.5	112.8	103.4	99.1	97.4	99.1	102.8	111.5
52.5°	168.0	145.3	125.5	107.5	91.7	83.7	79.0	78.0	79.0	83.4	90.4
55°	143.3	123.9	104.4	86.4	72.6	64.6	60.9	59.9	60.9	64.9	72.3
57.5°	118.8	102.1	85.0	68.6	56.9	49.9	46.5	45.2	47.5	50.2	58.9
60°	96.1	82.7	68.3	53.9	44.2	37.8	35.1	34.8	35.5	38.8	44.9
62.5°	75.3	64.3	52.9	41.2	33.1	30.5	27.1	26.8	27.4	29.5	34.1
65°	54.2	47.2	38.5	30.1	23.8	20.1	18.7	19.1	19.7	21.1	25.4
67.5°	37.8	32.8	26.8	21.1	16.4	14.7	13.4	13.1	13.4	15.7	18.1
70°	25.4	22.4	18.1	16.1	11.4	9.0	9.4	8.4	9.7	9.7	11.7
72.5°	16.7	14.7	12.0	9.4	8.0	6.4	6.4	6.0	6.7	7.0	8.7
75°	8.7	6.7	6.7	4.7	3.3	1.7	3.0	2.7	2.3	2.7	3.3
77.5°	6.0	5.0	4.7	3.7	3.3	2.7	2.7	2.7	2.7	3.0	3.3
80°	3.7	3.7	2.7	2.3	2.0	1.7	2.0	2.0	2.0	2.0	2.3
82.5°	2.3	2.0	2.0	1.7	1.7	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	1.7	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°	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.6
2.5°	624.7	625.0	625.0	624.7	624.7	624.0	625.3	624.3	624.7	626.0	625.0
5°	625.3	625.7	625.7	625.3	625.3	625.3	625.7	625.7	625.3	625.0	625.7
7.5°	626.7	626.3	626.3	625.7	625.7	625.0	625.7	624.7	625.3	624.7	625.7
10°	625.0	625.3	625.0	624.7	624.7	624.3	624.3	623.3	623.6	622.6	623.3
12.5°	624.0	623.6	623.6	623.0	622.3	621.6	621.3	620.3	620.3	618.0	619.0
15°	621.3	621.6	620.6	619.3	618.6	617.0	616.3	614.9	613.6	611.9	612.3
17.5°	619.0	618.0	616.6	615.3	612.6	611.3	609.9	607.9	607.2	605.2	604.6
20°	611.9	611.3	609.6	607.2	605.6	602.6	601.2	599.2	597.5	595.5	594.5
22.5°	602.9	602.2	600.2	597.9	595.2	593.9	592.5	588.8	587.2	585.1	584.8
25°	591.5	590.5	588.5	585.8	584.5	580.8	579.5	576.8	576.1	574.1	573.8
27.5°	574.1	572.8	570.4	567.1	564.7	562.4	561.1	559.0	558.4	556.4	556.0
30°	548.0	546.3	541.6	540.3	536.3	533.9	533.9	531.3	531.6	530.3	530.3
32.5°	506.8	504.1	500.5	497.8	495.1	493.8	493.8	492.8	493.4	493.4	494.1
35°	452.3	448.6	446.6	444.9	444.9	446.2	450.2	451.3	453.3	454.9	456.3
37.5°	382.3	382.0	384.3	386.3	391.3	397.0	404.0	410.1	415.8	419.8	423.8
40°	306.6	315.0	321.7	331.1	338.8	349.8	362.5	372.9	382.6	389.7	397.0
42.5°	239.3	250.1	264.1	277.8	291.6	306.6	323.4	337.8	350.5	360.2	367.9
45°	186.5	201.2	218.3	235.7	253.4	272.2	289.6	304.3	317.7	327.7	335.4
47.5°	150.3	166.4	185.8	204.9	225.0	244.7	264.1	276.8	287.9	295.9	303.0
50°	124.2	141.3	161.7	183.4	203.5	223.3	240.0	252.4	261.4	268.5	272.8
52.5°	103.8	121.8	143.6	165.4	185.5	203.5	218.6	228.0	235.3	240.4	244.4
55°	85.7	103.1	123.5	143.9	163.7	180.8	193.1	200.2	205.9	208.9	211.2
57.5°	70.0	86.0	104.8	123.5	140.6	154.7	164.4	171.4	174.1	176.4	176.1
60°	54.9	70.0	87.0	103.1	117.8	129.2	136.2	140.3	142.3	143.3	142.6
62.5°	43.2	56.9	70.0	84.0	94.7	104.4	111.1	111.1	112.1	112.5	113.5
65°	32.1	42.5	53.9	64.3	73.0	79.3	83.0	84.0	85.4	85.0	84.4
67.5°	23.8	31.5	39.8	47.5	53.6	57.6	60.3	62.6	62.3	61.6	61.3
70°	16.4	21.4	28.8	33.5	37.8	41.8	42.5	42.8	43.2	43.5	42.8
72.5°	11.4	15.1	19.1	23.1	25.8	27.4	29.1	29.5	29.5	29.5	29.1
75°	5.7	7.7	11.4	13.1	15.4	16.1	17.4	17.4	18.4	17.1	16.7
77.5°	5.0	6.0	8.0	9.4	10.4	11.4	11.7	12.7	12.4	11.7	12.0
80°	3.0	3.7	5.0	5.7	7.0	7.4	7.7	8.0	7.7	8.0	8.0
82.5°	2.3	2.7	3.3	3.3	4.3	4.3	4.7	4.7	5.0	5.0	5.0
85°	1.3	2.3	2.0	4.0	2.7	2.7	3.3	4.0	3.3	3.3	4.0
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.7	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°	623.6	623.6	623.6	623.6
2.5°	624.7	625.3	624.3	624.0
5°	625.7	625.7	625.0	625.0
7.5°	625.7	625.7	624.7	624.0
10°	623.0	623.0	622.0	621.3
12.5°	618.0	618.0	617.6	616.6
15°	611.6	611.6	610.3	609.3
17.5°	602.9	603.6	601.9	601.9
20°	593.5	593.2	591.8	591.2
22.5°	583.8	583.1	582.8	580.8
25°	573.4	572.8	571.8	570.8
27.5°	555.7	555.4	554.4	553.0
30°	528.6	528.2	526.9	526.9
32.5°	493.4	493.1	491.8	492.1
35°	456.9	458.3	457.6	456.3
37.5°	426.5	427.5	428.2	427.5
40°	401.0	404.0	404.4	405.1
42.5°	373.9	377.9	379.3	379.9
45°	341.4	345.1	348.1	347.5
47.5°	308.3	311.0	313.7	311.7
50°	276.5	278.2	279.2	279.2
52.5°	246.4	246.4	246.0	246.4
55°	211.9	211.9	210.6	211.2
57.5°	175.7	176.4	175.4	173.7
60°	142.3	140.6	139.9	138.9
62.5°	110.8	110.8	108.5	111.5
65°	83.0	82.0	81.0	80.7
67.5°	60.3	59.9	58.9	58.6
70°	42.5	41.2	40.8	40.2
72.5°	28.5	28.5	27.8	27.8
75°	17.4	15.7	15.4	15.7
77.5°	12.0	11.7	11.7	11.4
80°	8.0	7.7	8.4	7.4
82.5°	5.0	5.4	5.0	5.4
85°	3.3	4.0	3.7	3.7
87.5°	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)