

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: P246234

Luminaire Tested: **LSR8B10D010 EC8B10927 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246234
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 EC8B10927 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 895.5 lumens
Efficiency: N/A
Efficacy: 87.8 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

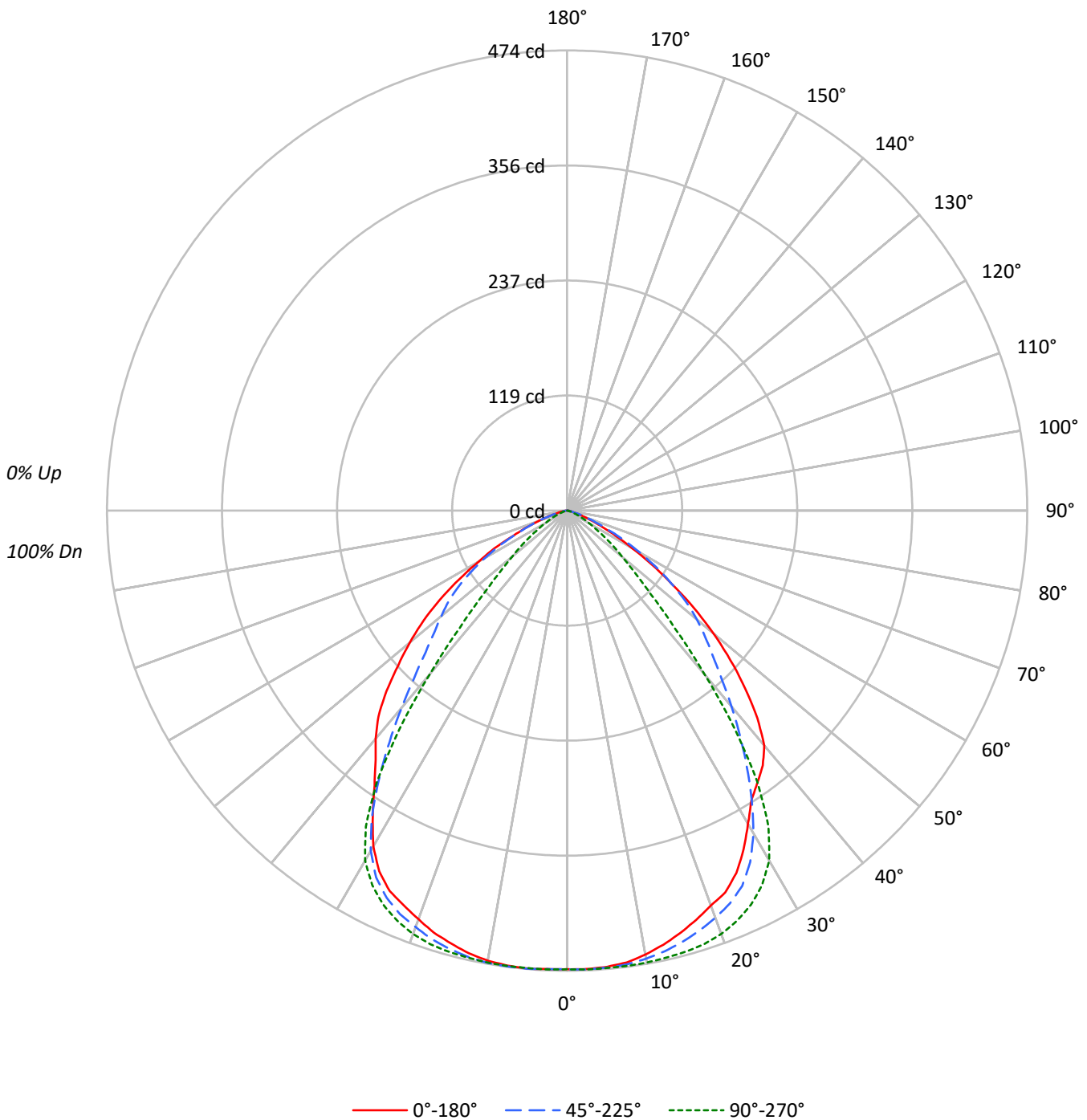
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	14570	14570	14570
5°	14601	14641	14657
10°	14541	14801	14739
15°	14379	15020	14736
20°	14206	15230	14698
25°	14021	15246	14712
30°	13267	14816	14214
35°	12871	12878	13014
40°	12712	8864	12354
45°	11325	5320	11478
50°	9417	3540	10146
55°	7064	2441	8602
60°	4786	1622	6494
65°	2889	1058	4458
70°	1605	568	2750
75°	727	238	1418
80°	639	284	994
85°	708	354	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	5.0
10°-20°	131.0	14.6
20°-30°	198.8	22.2
30°-40°	208.8	23.3
40°-50°	156.5	17.5
50°-60°	100.4	11.2
60°-70°	43.0	4.8
70°-80°	10.2	1.1
80°-90°	1.9	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°	374.8	41.9
0°-40°	583.6	65.2
0°-60°	840.5	93.9
0°-90°	895.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	472	472	472	472	472	
5°	472	472	473	474	474	45
15°	450	460	470	467	462	127
25°	412	427	448	440	432	188
35°	342	323	342	338	346	215
45°	260	212	122	206	263	199
55°	131	131	45	137	160	119
65°	40	47	14	60	61	42
75°	6	7	2	12	12	9
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°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5
2.5°	472.7	473.3	473.0	473.0	472.7	473.0	473.0	473.5	473.5	473.0	472.7
5°	471.7	472.3	472.3	471.7	471.7	473.0	472.3	472.7	472.7	472.5	472.5
7.5°	469.5	469.5	470.5	469.7	469.7	470.5	470.2	470.7	471.3	471.5	471.5
10°	464.4	464.8	465.1	465.1	465.4	466.1	466.6	467.7	468.2	468.7	468.9
12.5°	458.0	458.8	459.0	458.8	459.6	460.6	461.8	463.0	463.8	464.8	465.6
15°	450.4	450.4	450.9	451.7	452.2	453.7	455.0	456.5	458.6	459.8	461.0
17.5°	442.0	442.6	443.4	443.4	444.4	446.8	447.6	449.9	452.2	453.5	456.0
20°	432.9	433.5	434.1	434.7	435.9	438.0	439.5	441.6	444.0	446.4	448.9
22.5°	425.8	424.8	425.4	425.8	427.0	428.8	430.6	433.1	435.7	438.0	440.6
25°	412.1	412.4	413.1	413.7	415.1	416.7	418.7	421.8	424.0	426.6	429.4
27.5°	393.6	393.9	395.1	395.1	396.4	398.9	400.2	402.8	405.8	408.3	411.6
30°	372.6	373.0	373.0	374.1	374.8	376.1	377.3	379.9	381.5	383.7	388.2
32.5°	353.2	353.8	353.6	353.2	352.6	352.2	352.0	352.6	353.0	353.8	355.6
35°	341.9	340.7	339.6	337.8	335.8	333.2	331.0	327.9	325.1	322.9	320.3
37.5°	331.0	330.8	329.2	326.7	322.7	318.0	312.8	306.1	299.5	292.4	285.5
40°	315.8	315.0	313.8	310.2	305.6	300.0	293.0	284.8	274.2	263.2	252.1
42.5°	289.9	290.1	288.6	285.9	281.5	276.2	268.9	260.0	248.5	235.6	221.2
45°	259.7	259.7	259.2	257.0	253.9	249.5	244.0	236.6	225.4	212.3	196.8
47.5°	228.3	228.5	227.7	227.2	226.0	223.2	219.2	213.5	205.6	193.0	177.5
50°	196.3	196.3	197.5	197.3	197.3	196.3	194.5	191.2	184.4	174.3	159.8
52.5°	164.4	164.8	165.6	166.6	167.8	169.9	167.8	166.4	162.1	154.2	141.8
55°	131.4	131.8	133.2	134.9	136.5	138.5	138.9	138.9	136.7	131.4	122.0
57.5°	103.3	102.5	103.5	105.0	107.0	109.0	110.6	112.4	112.0	108.6	100.9
60°	77.6	77.9	78.6	80.1	81.7	83.5	85.5	87.0	87.8	86.0	81.1
62.5°	56.6	56.6	57.6	59.1	59.8	62.4	63.7	64.5	65.1	64.9	61.9
65°	39.6	40.1	40.6	41.3	42.1	43.6	44.4	45.9	46.5	46.7	44.4
67.5°	27.9	27.1	27.7	28.1	28.9	29.9	31.5	31.5	32.2	32.2	30.7
70°	17.8	17.8	18.0	18.8	19.2	19.6	20.0	20.6	21.3	21.0	21.0
72.5°	11.9	11.7	11.9	12.2	12.4	13.2	13.2	13.4	14.0	14.2	13.2
75°	6.1	6.3	6.9	6.6	7.3	6.9	7.1	7.9	7.6	7.1	7.1
77.5°	5.1	5.1	5.1	4.8	5.3	5.3	5.1	5.6	5.3	5.3	5.1
80°	3.6	3.8	3.6	3.3	3.6	3.3	3.3	3.3	3.3	3.3	3.0
82.5°	2.8	2.2	2.6	2.2	2.6	2.6	2.2	2.0	2.0	2.2	2.0
85°	2.0	1.6	1.8	1.8	1.6	1.6	1.6	1.6	1.6	1.2	1.2
87.5°	1.2	0.8	0.8	0.8	1.0	1.0	1.0	0.8	1.0	1.0	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°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5
2.5°	473.3	473.0	473.5	473.3	473.3	473.0	473.3	473.0	473.5	472.5	472.7
5°	473.3	472.7	473.0	473.3	473.5	473.0	473.0	473.0	473.5	473.0	473.3
7.5°	472.3	471.9	472.7	473.3	473.0	472.7	473.3	473.0	473.5	473.3	473.7
10°	470.2	470.5	470.9	471.7	471.9	472.3	472.7	472.7	473.5	472.5	473.0
12.5°	467.2	468.2	469.5	469.9	470.9	470.9	471.5	471.7	472.3	471.9	472.7
15°	463.4	464.6	466.1	467.4	468.7	469.5	470.2	470.5	471.3	470.5	470.7
17.5°	458.8	460.4	462.6	464.1	466.1	466.9	467.9	468.4	469.2	468.7	468.9
20°	452.5	454.3	456.8	459.0	460.4	462.0	463.4	464.1	464.6	464.1	464.4
22.5°	443.6	446.1	449.4	451.1	453.7	455.3	455.5	457.3	458.6	457.3	457.8
25°	433.1	435.7	438.3	442.0	444.4	446.1	447.9	448.1	449.4	449.1	448.9
27.5°	415.9	419.2	423.6	426.6	429.6	432.4	434.5	434.9	436.2	435.7	435.9
30°	392.3	395.9	399.9	404.8	409.0	411.9	414.4	416.1	417.5	416.7	416.5
32.5°	358.9	362.4	366.8	371.6	376.7	380.7	383.7	386.0	387.6	387.0	385.8
35°	320.6	321.6	324.3	328.2	332.4	336.8	339.6	342.1	343.9	344.4	344.4
37.5°	281.2	278.0	276.0	276.0	278.4	280.2	282.8	284.3	287.1	288.1	288.9
40°	243.2	235.6	228.5	223.2	219.6	219.4	219.4	220.2	222.6	226.0	229.0
42.5°	209.2	197.1	186.2	176.3	169.2	165.2	163.4	163.6	165.6	168.6	173.7
45°	182.1	166.8	153.2	141.3	131.6	125.3	122.3	122.0	123.5	127.0	132.6
47.5°	161.1	144.8	129.4	115.6	105.3	98.4	94.8	93.8	94.8	98.1	104.7
50°	143.5	126.8	110.8	96.6	85.5	78.4	75.0	73.8	75.0	77.9	84.5
52.5°	127.4	110.0	95.1	81.4	69.5	63.4	59.8	59.1	59.8	63.1	68.5
55°	108.6	93.8	79.1	65.5	55.0	48.9	46.1	45.4	46.1	49.2	54.8
57.5°	90.0	77.4	64.5	52.0	43.1	37.8	35.2	34.2	36.0	38.0	44.7
60°	72.8	62.7	51.8	40.8	33.5	28.7	26.7	26.3	26.9	29.5	34.0
62.5°	57.0	48.7	40.1	31.2	25.1	23.1	20.6	20.2	20.8	22.3	25.9
65°	41.1	35.8	29.1	22.8	18.0	15.2	14.2	14.5	15.0	16.0	19.2
67.5°	28.7	24.9	20.2	16.0	12.4	11.1	10.1	9.9	10.1	11.9	13.7
70°	19.2	17.0	13.7	12.2	8.7	6.9	7.1	6.3	7.3	7.3	8.9
72.5°	12.7	11.1	9.1	7.1	6.1	4.8	4.8	4.6	5.1	5.3	6.6
75°	6.6	5.1	5.1	3.6	2.6	1.2	2.2	2.0	1.8	2.0	2.6
77.5°	4.6	3.8	3.6	2.8	2.6	2.0	2.0	2.0	2.0	2.2	2.6
80°	2.8	2.8	2.0	1.8	1.6	1.2	1.6	1.6	1.6	1.6	1.8
82.5°	1.8	1.6	1.6	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.6
85°	1.6	1.0	1.0	0.8	1.0	1.8	0.8	1.0	1.0	1.0	0.8
87.5°	0.6	0.8	0.8	0.8	0.6	0.2	0.6	0.8	0.8	1.2	1.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5
2.5°	473.3	473.5	473.5	473.3	473.3	472.7	473.7	473.0	473.3	474.3	473.5
5°	473.7	474.0	474.0	473.7	473.7	473.7	474.0	474.0	473.7	473.5	474.0
7.5°	474.8	474.5	474.5	474.0	474.0	473.5	474.0	473.3	473.7	473.3	474.0
10°	473.5	473.7	473.5	473.3	473.3	473.0	473.0	472.3	472.5	471.7	472.3
12.5°	472.7	472.5	472.5	471.9	471.5	470.9	470.7	469.9	469.9	468.2	468.9
15°	470.7	470.9	470.2	469.2	468.7	467.4	466.9	465.9	464.8	463.6	463.8
17.5°	468.9	468.2	467.2	466.1	464.1	463.0	462.0	460.6	460.0	458.6	458.0
20°	463.6	463.0	461.8	460.0	458.8	456.5	455.5	453.9	452.7	451.1	450.4
22.5°	456.8	456.3	454.7	452.9	450.9	449.9	448.9	446.1	444.8	443.4	443.0
25°	448.1	447.4	445.8	443.8	442.8	440.0	439.0	437.0	436.5	434.9	434.7
27.5°	434.9	433.9	432.1	429.6	427.8	426.0	425.0	423.6	423.0	421.5	421.3
30°	415.1	413.9	410.4	409.4	406.2	404.6	404.6	402.5	402.8	401.7	401.7
32.5°	384.0	381.9	379.1	377.1	375.1	374.1	374.1	373.3	373.8	373.8	374.3
35°	342.7	339.9	338.3	337.0	337.0	338.1	341.1	341.9	343.3	344.7	345.7
37.5°	289.6	289.3	291.2	292.7	296.4	300.8	306.1	310.7	315.0	318.0	321.1
40°	232.3	238.6	243.7	250.9	256.6	265.0	274.6	282.5	289.9	295.2	300.8
42.5°	181.4	189.5	200.1	210.5	221.0	232.3	245.0	255.9	265.5	272.9	278.8
45°	141.3	152.4	165.4	178.5	192.0	206.2	219.4	230.5	240.6	248.3	254.1
47.5°	113.8	126.0	140.7	155.2	170.4	185.4	200.1	209.7	218.1	224.2	229.5
50°	94.0	107.0	122.5	138.9	154.2	169.2	181.8	191.2	198.1	203.4	206.7
52.5°	78.6	92.4	108.8	125.3	140.5	154.2	165.6	172.7	178.3	182.1	185.2
55°	64.9	78.1	93.6	109.0	124.0	136.9	146.4	151.6	155.9	158.3	160.0
57.5°	53.0	65.1	79.4	93.6	106.5	117.2	124.5	129.8	131.8	133.6	133.4
60°	41.6	53.0	65.9	78.1	89.3	97.9	103.3	106.3	107.8	108.6	108.0
62.5°	32.7	43.1	53.0	63.7	71.8	79.1	84.1	84.1	84.9	85.2	86.0
65°	24.3	32.2	40.8	48.7	55.2	60.1	62.9	63.7	64.7	64.5	63.9
67.5°	18.0	23.8	30.2	36.0	40.6	43.6	45.7	47.5	47.1	46.7	46.5
70°	12.4	16.2	21.8	25.3	28.7	31.7	32.2	32.5	32.7	33.0	32.5
72.5°	8.7	11.4	14.5	17.6	19.6	20.8	22.0	22.3	22.3	22.3	22.0
75°	4.3	5.9	8.7	9.9	11.7	12.2	13.2	13.2	14.0	12.9	12.7
77.5°	3.8	4.6	6.1	7.1	7.9	8.7	8.9	9.7	9.3	8.9	9.1
80°	2.2	2.8	3.8	4.3	5.3	5.6	5.9	6.1	5.9	6.1	6.1
82.5°	1.8	2.0	2.6	2.6	3.3	3.3	3.6	3.6	3.8	3.8	3.8
85°	1.0	1.8	1.6	3.0	2.0	2.0	2.6	3.0	2.6	2.6	3.0
87.5°	1.0	1.0	0.8	1.0	1.0	1.0	1.2	1.6	1.6	1.8	1.6
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):

	165°	170°	175°	180°
0°	472.5	472.5	472.5	472.5
2.5°	473.3	473.7	473.0	472.7
5°	474.0	474.0	473.5	473.5
7.5°	474.0	474.0	473.3	472.7
10°	471.9	471.9	471.3	470.7
12.5°	468.2	468.2	467.9	467.2
15°	463.4	463.4	462.4	461.6
17.5°	456.8	457.3	456.0	456.0
20°	449.7	449.4	448.4	447.9
22.5°	442.4	441.8	441.6	440.0
25°	434.5	433.9	433.1	432.4
27.5°	421.0	420.8	420.0	419.0
30°	400.5	400.2	399.2	399.2
32.5°	373.8	373.6	372.6	372.8
35°	346.2	347.2	346.7	345.7
37.5°	323.1	323.9	324.3	323.9
40°	303.9	306.1	306.3	306.9
42.5°	283.3	286.3	287.3	287.9
45°	258.6	261.4	263.8	263.2
47.5°	233.6	235.6	237.6	236.1
50°	209.5	210.7	211.5	211.5
52.5°	186.6	186.6	186.4	186.6
55°	160.5	160.5	159.5	160.0
57.5°	133.2	133.6	132.9	131.6
60°	107.8	106.5	106.0	105.3
62.5°	83.9	83.9	82.1	84.5
65°	62.9	62.1	61.4	61.1
67.5°	45.7	45.4	44.7	44.4
70°	32.2	31.2	30.9	30.5
72.5°	21.6	21.6	21.0	21.0
75°	13.2	11.9	11.7	11.9
77.5°	9.1	8.9	8.9	8.7
80°	6.1	5.9	6.3	5.6
82.5°	3.8	4.0	3.8	4.0
85°	2.6	3.0	2.8	2.8
87.5°	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)