

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: P244650

Luminaire Tested: **LD8B10D010 ER8B10927 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244650
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: LD8B10D010 ER8B10927 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 905.6 lumens
Efficiency: N/A
Efficacy: 88.8 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

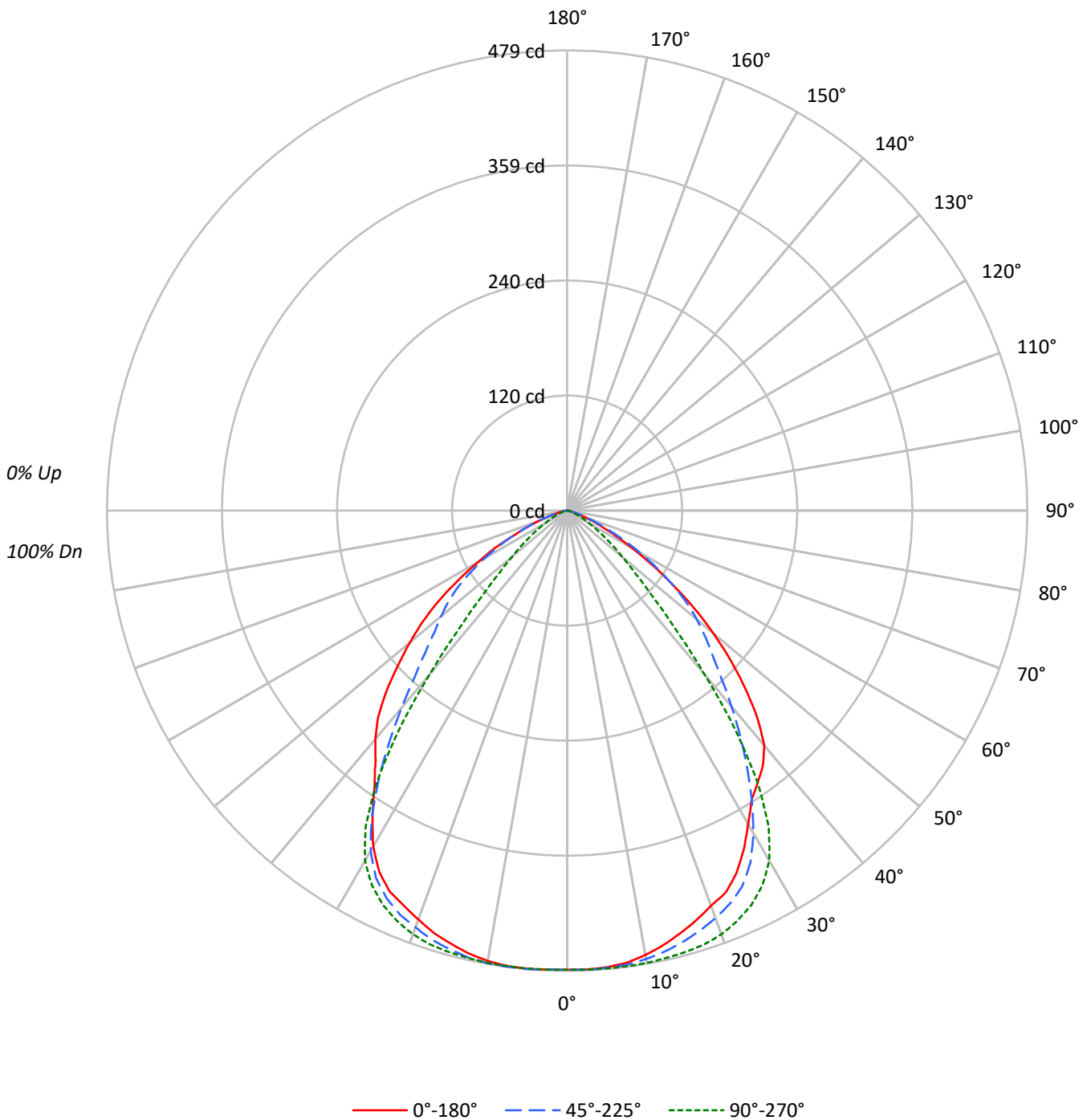
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	66	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°	14734	14734	14734
5°	14765	14808	14821
10°	14704	14970	14905
15°	14541	15189	14902
20°	14367	15404	14862
25°	14181	15420	14879
30°	13417	14987	14374
35°	13014	13021	13157
40°	12853	8961	12495
45°	11456	5381	11609
50°	9527	3579	10261
55°	7145	2468	8704
60°	4841	1647	6562
65°	2926	1065	4509
70°	1623	577	2777
75°	739	238	1430
80°	639	284	994
85°	708	354	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	5.0
10°-20°	132.4	14.6
20°-30°	201.0	22.2
30°-40°	211.1	23.3
40°-50°	158.3	17.5
50°-60°	101.6	11.2
60°-70°	43.4	4.8
70°-80°	10.3	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°	379.0	41.9
0°-40°	590.2	65.2
0°-60°	850.0	93.9
0°-90°	905.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	478	478	478	478	478	
5°	477	478	478	479	479	45
15°	456	465	476	473	467	128
25°	417	431	453	445	437	190
35°	346	326	346	342	350	217
45°	263	215	123	209	266	201
55°	133	133	46	138	162	121
65°	40	47	15	61	62	43
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°	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8
2.5°	478.1	478.6	478.4	478.4	478.1	478.4	478.4	478.8	478.8	478.4	478.1
5°	477.0	477.6	477.6	477.0	477.0	478.4	477.6	478.1	478.1	477.8	477.8
7.5°	474.8	474.8	475.8	475.0	475.0	475.8	475.5	476.0	476.6	476.8	476.8
10°	469.6	470.1	470.4	470.4	470.7	471.4	471.9	473.0	473.5	474.0	474.2
12.5°	463.2	464.0	464.3	464.0	464.7	465.8	467.1	468.3	469.1	470.1	470.9
15°	455.5	455.5	456.1	456.8	457.3	458.9	460.1	461.7	463.7	465.0	466.3
17.5°	447.1	447.5	448.3	448.3	449.3	451.9	452.7	455.0	457.3	458.6	461.1
20°	437.8	438.3	439.1	439.6	440.9	442.9	444.5	446.5	449.1	451.5	453.9
22.5°	430.6	429.6	430.1	430.6	431.9	433.7	435.5	438.1	440.7	442.9	445.5
25°	416.8	417.0	417.8	418.3	419.8	421.4	423.4	426.5	428.8	431.4	434.2
27.5°	398.0	398.4	399.6	399.6	400.8	403.4	404.8	407.2	410.4	413.0	416.2
30°	376.8	377.3	377.3	378.3	379.1	380.4	381.6	384.2	385.8	388.0	392.6
32.5°	357.3	357.8	357.5	357.3	356.5	356.3	356.0	356.5	357.1	357.8	359.6
35°	345.7	344.5	343.5	341.7	339.6	337.0	334.7	331.7	328.8	326.5	323.9
37.5°	334.7	334.5	332.9	330.3	326.2	321.6	316.2	309.6	302.8	295.8	288.8
40°	319.3	318.6	317.2	313.7	309.0	303.4	296.2	288.0	277.2	266.2	254.9
42.5°	293.2	293.4	291.8	289.0	284.7	279.3	271.9	262.9	251.3	238.3	223.6
45°	262.7	262.7	262.1	259.8	256.7	252.3	246.7	239.3	228.0	214.6	199.0
47.5°	230.8	231.1	230.3	229.8	228.5	225.7	221.6	216.0	208.0	195.2	179.5
50°	198.6	198.6	199.8	199.6	199.6	198.6	196.8	193.4	186.4	176.2	161.5
52.5°	166.2	166.7	167.5	168.5	169.8	171.8	169.8	168.3	163.9	155.9	143.3
55°	132.9	133.4	134.7	136.5	138.0	140.1	140.5	140.5	138.3	132.9	123.4
57.5°	104.4	103.6	104.6	106.2	108.2	110.2	111.8	113.6	113.4	109.8	102.0
60°	78.5	78.8	79.5	81.0	82.6	84.4	86.4	88.0	88.8	87.0	82.1
62.5°	57.2	57.2	58.3	59.7	60.5	63.1	64.4	65.1	65.9	65.7	62.6
65°	40.1	40.5	41.1	41.8	42.5	44.1	44.9	46.5	46.9	47.1	44.9
67.5°	28.2	27.4	28.0	28.5	29.2	30.3	31.8	31.8	32.6	32.6	31.0
70°	18.0	18.0	18.2	19.0	19.5	19.8	20.2	20.8	21.6	21.3	21.3
72.5°	12.0	11.8	12.0	12.3	12.6	13.4	13.4	13.6	14.1	14.4	13.4
75°	6.2	6.4	7.0	6.6	7.4	7.0	7.2	8.0	7.6	7.2	7.2
77.5°	5.2	5.2	5.2	4.8	5.4	5.4	5.2	5.6	5.4	5.4	5.2
80°	3.6	3.8	3.6	3.4	3.6	3.4	3.4	3.4	3.4	3.4	3.0
82.5°	2.8	2.4	2.6	2.4	2.6	2.6	2.4	2.0	2.0	2.4	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°	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8
2.5°	478.6	478.4	478.8	478.6	478.6	478.4	478.6	478.4	478.8	477.8	478.1
5°	478.6	478.1	478.4	478.6	478.8	478.4	478.4	478.4	478.8	478.4	478.6
7.5°	477.6	477.3	478.1	478.6	478.4	478.1	478.6	478.4	478.8	478.6	479.1
10°	475.5	475.8	476.3	477.0	477.3	477.6	478.1	478.1	478.8	477.8	478.4
12.5°	472.4	473.5	474.8	475.3	476.3	476.3	476.8	477.0	477.6	477.3	478.1
15°	468.6	469.9	471.4	472.7	474.0	474.8	475.5	475.8	476.6	475.8	476.0
17.5°	464.0	465.5	467.8	469.4	471.4	472.2	473.2	473.7	474.5	474.0	474.2
20°	457.5	459.3	461.9	464.3	465.5	467.3	468.6	469.4	469.9	469.4	469.6
22.5°	448.5	451.1	454.5	456.3	458.9	460.4	460.7	462.5	463.7	462.5	462.9
25°	438.1	440.7	443.2	447.1	449.3	451.1	452.9	453.2	454.5	454.3	453.9
27.5°	420.6	424.0	428.3	431.4	434.5	437.3	439.3	439.9	441.1	440.7	440.9
30°	396.8	400.4	404.4	409.4	413.7	416.5	419.1	420.9	422.2	421.4	421.1
32.5°	362.9	366.5	370.9	375.8	380.9	385.0	388.0	390.4	392.0	391.4	390.2
35°	324.2	325.2	328.0	331.9	336.3	340.7	343.5	345.9	347.7	348.3	348.3
37.5°	284.4	281.1	279.0	279.0	281.6	283.4	286.0	287.6	290.4	291.4	292.2
40°	245.9	238.3	231.1	225.7	222.1	221.8	221.8	222.6	225.2	228.5	231.6
42.5°	211.6	199.2	188.2	178.2	171.1	167.0	165.2	165.5	167.5	170.5	175.7
45°	184.2	168.8	154.9	142.9	133.1	126.7	123.6	123.4	124.9	128.5	134.1
47.5°	162.9	146.5	130.8	117.0	106.4	99.6	96.0	95.0	96.0	99.2	106.0
50°	145.1	128.2	112.0	97.8	86.4	79.2	75.9	74.6	75.9	78.8	85.4
52.5°	128.7	111.3	96.2	82.4	70.3	64.1	60.5	59.7	60.5	63.9	69.3
55°	109.8	95.0	80.0	66.1	55.7	49.5	46.7	45.9	46.7	49.7	55.4
57.5°	91.0	78.2	65.1	52.5	43.6	38.2	35.7	34.6	36.4	38.5	45.1
60°	73.6	63.3	52.3	41.3	33.9	29.0	26.9	26.7	27.2	29.7	34.3
62.5°	57.7	49.3	40.5	31.5	25.4	23.3	20.8	20.5	21.0	22.6	26.2
65°	41.5	36.1	29.5	23.1	18.2	15.4	14.4	14.6	15.1	16.2	19.5
67.5°	29.0	25.1	20.5	16.2	12.6	11.2	10.2	10.0	10.2	12.0	13.8
70°	19.5	17.2	13.8	12.3	8.8	7.0	7.2	6.4	7.4	7.4	9.0
72.5°	12.8	11.2	9.2	7.2	6.2	4.8	4.8	4.6	5.2	5.4	6.6
75°	6.6	5.2	5.2	3.6	2.6	1.2	2.4	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	2.4	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°	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8	477.8
2.5°	478.6	478.8	478.8	478.6	478.6	478.1	479.1	478.4	478.6	479.6	478.8
5°	479.1	479.4	479.4	479.1	479.1	479.1	479.4	479.4	479.1	478.8	479.4
7.5°	480.2	479.9	479.9	479.4	479.4	478.8	479.4	478.6	479.1	478.6	479.4
10°	478.8	479.1	478.8	478.6	478.6	478.4	478.4	477.6	477.8	477.0	477.6
12.5°	478.1	477.8	477.8	477.3	476.8	476.3	476.0	475.3	475.3	473.5	474.2
15°	476.0	476.3	475.5	474.5	474.0	472.7	472.2	471.2	470.1	468.9	469.1
17.5°	474.2	473.5	472.4	471.4	469.4	468.3	467.3	465.8	465.3	463.7	463.2
20°	468.9	468.3	467.1	465.3	464.0	461.7	460.7	459.1	457.8	456.3	455.5
22.5°	461.9	461.4	459.9	458.1	456.1	455.0	453.9	451.1	449.9	448.3	448.1
25°	453.2	452.5	450.9	448.9	447.9	445.0	443.9	441.9	441.4	439.9	439.6
27.5°	439.9	438.9	437.1	434.5	432.7	430.9	429.9	428.3	427.8	426.3	426.0
30°	419.8	418.6	415.0	414.0	410.8	409.0	409.0	407.0	407.2	406.2	406.2
32.5°	388.3	386.2	383.4	381.4	379.3	378.3	378.3	377.6	378.0	378.0	378.6
35°	346.5	343.7	342.1	340.9	340.9	341.9	344.9	345.7	347.3	348.5	349.5
37.5°	293.0	292.6	294.4	296.0	299.8	304.2	309.6	314.2	318.6	321.6	324.7
40°	234.9	241.3	246.5	253.7	259.5	268.0	277.8	285.8	293.2	298.6	304.2
42.5°	183.4	191.6	202.4	212.8	223.4	234.9	247.7	258.8	268.5	276.0	281.9
45°	142.9	154.1	167.2	180.6	194.2	208.6	221.8	233.1	243.4	251.1	257.0
47.5°	115.2	127.5	142.3	156.9	172.4	187.5	202.4	212.1	220.6	226.7	232.1
50°	95.2	108.2	123.9	140.5	155.9	171.1	183.9	193.4	200.4	205.6	209.0
52.5°	79.5	93.4	110.0	126.7	142.1	155.9	167.5	174.7	180.3	184.2	187.2
55°	65.7	79.0	94.6	110.2	125.4	138.5	147.9	153.3	157.7	160.1	161.9
57.5°	53.7	65.9	80.3	94.6	107.8	118.5	125.9	131.3	133.4	135.1	134.9
60°	42.1	53.7	66.7	79.0	90.3	99.0	104.4	107.4	109.0	109.8	109.2
62.5°	33.1	43.6	53.7	64.4	72.6	80.0	85.2	85.2	86.0	86.2	87.0
65°	24.6	32.6	41.3	49.3	55.9	60.8	63.6	64.4	65.4	65.1	64.7
67.5°	18.2	24.1	30.5	36.4	41.1	44.1	46.1	47.9	47.7	47.1	46.9
70°	12.6	16.4	22.0	25.6	29.0	32.1	32.6	32.8	33.1	33.3	32.8
72.5°	8.8	11.6	14.6	17.7	19.8	21.0	22.3	22.6	22.6	22.6	22.3
75°	4.4	5.9	8.8	10.0	11.8	12.3	13.4	13.4	14.1	13.0	12.8
77.5°	3.8	4.6	6.2	7.2	8.0	8.8	9.0	9.8	9.5	9.0	9.2
80°	2.4	2.8	3.8	4.4	5.4	5.6	5.9	6.2	5.9	6.2	6.2
82.5°	1.8	2.0	2.6	2.6	3.4	3.4	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°	477.8	477.8	477.8	477.8
2.5°	478.6	479.1	478.4	478.1
5°	479.4	479.4	478.8	478.8
7.5°	479.4	479.4	478.6	478.1
10°	477.3	477.3	476.6	476.0
12.5°	473.5	473.5	473.2	472.4
15°	468.6	468.6	467.6	466.8
17.5°	461.9	462.5	461.1	461.1
20°	454.7	454.5	453.5	452.9
22.5°	447.3	446.7	446.5	445.0
25°	439.3	438.9	438.1	437.3
27.5°	425.8	425.5	424.7	423.7
30°	405.0	404.8	403.7	403.7
32.5°	378.0	377.8	376.8	377.0
35°	350.1	351.1	350.7	349.5
37.5°	326.8	327.5	328.0	327.5
40°	307.2	309.6	309.8	310.4
42.5°	286.5	289.6	290.6	291.2
45°	261.6	264.5	266.7	266.2
47.5°	236.2	238.3	240.3	238.8
50°	211.8	213.2	213.9	213.9
52.5°	188.8	188.8	188.5	188.8
55°	162.3	162.3	161.3	161.9
57.5°	134.7	135.1	134.4	133.1
60°	109.0	107.8	107.2	106.4
62.5°	84.9	84.9	83.1	85.4
65°	63.6	62.9	62.1	61.8
67.5°	46.1	45.9	45.1	44.9
70°	32.6	31.5	31.3	30.8
72.5°	21.8	21.8	21.3	21.3
75°	13.4	12.0	11.8	12.0
77.5°	9.2	9.0	9.0	8.8
80°	6.2	5.9	6.4	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)