

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: P246103

Luminaire Tested: **LD8B15D010 ER8B15827 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246103
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: LD8B15D010 ER8B15827 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1300.0 lumens
Efficiency: N/A
Efficacy: 90.3 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

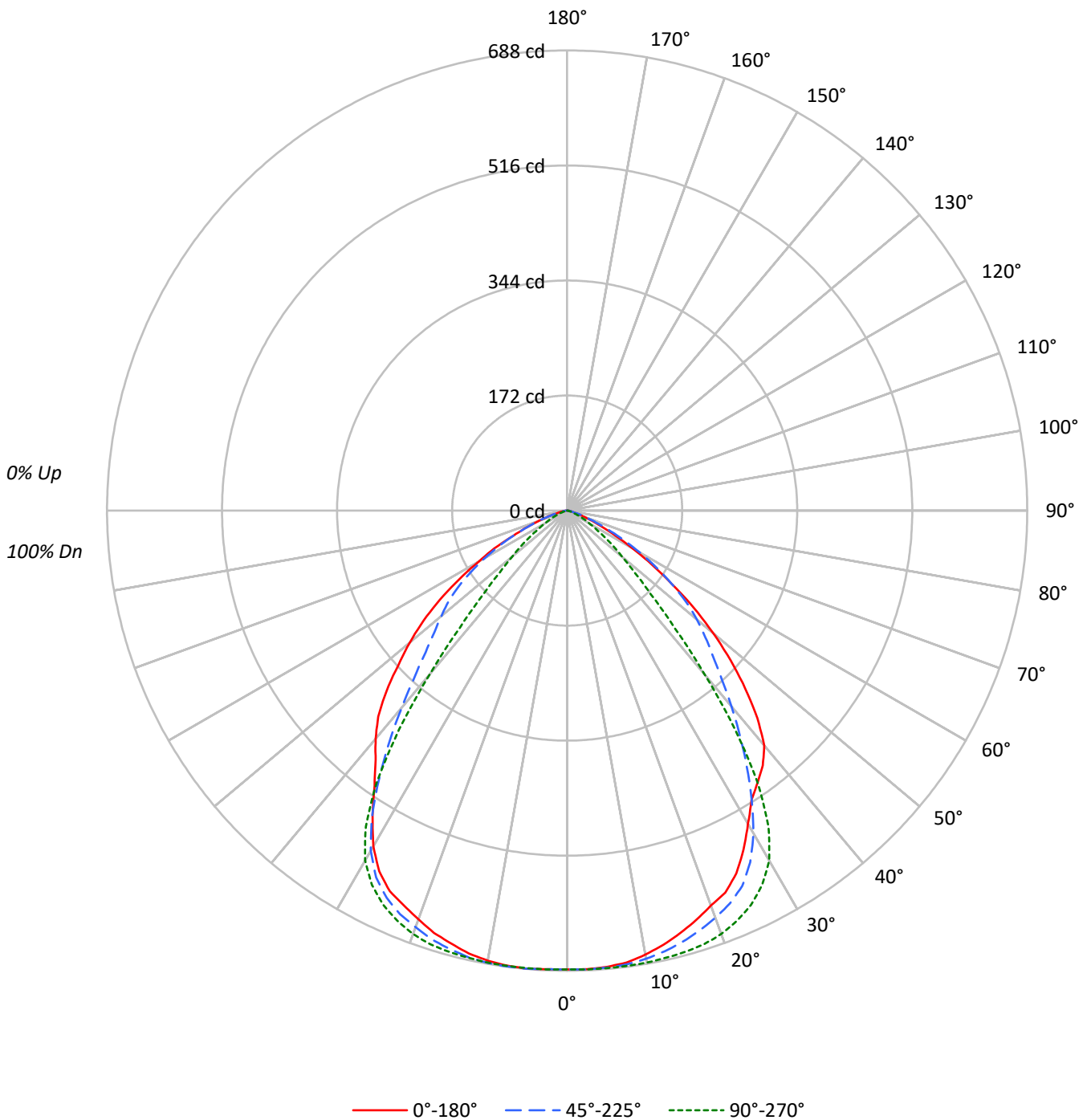
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21151	21151	21151
5°	21197	21253	21278
10°	21107	21489	21395
15°	20875	21804	21392
20°	20624	22111	21337
25°	20357	22136	21357
30°	19256	21514	20634
35°	18683	18698	18890
40°	18452	12865	17933
45°	16441	7723	16667
50°	13672	5138	14732
55°	10252	3543	12489
60°	6951	2362	9424
65°	4188	1532	6472
70°	2326	829	3985
75°	1048	346	2061
80°	923	391	1438
85°	1026	531	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	5.0
10°-20°	190.1	14.6
20°-30°	288.5	22.2
30°-40°	303.1	23.3
40°-50°	227.2	17.5
50°-60°	145.8	11.2
60°-70°	62.4	4.8
70°-80°	14.7	1.1
80°-90°	2.7	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°	544.1	41.9
0°-40°	847.2	65.2
0°-60°	1220.2	93.9
0°-90°	1300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1300.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	686	686	686	686	686	
5°	685	686	687	688	687	65
15°	654	668	683	678	670	184
25°	598	619	651	639	628	273
35°	496	469	497	491	502	311
45°	377	308	177	299	382	289
55°	191	191	66	199	232	173
65°	57	68	21	87	89	61
75°	9	10	3	18	17	13
85°	3	2	2	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°	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9
2.5°	686.3	687.0	686.6	686.6	686.3	686.6	686.6	687.4	687.4	686.6	686.3
5°	684.8	685.5	685.5	684.8	684.8	686.6	685.5	686.3	686.3	685.9	685.9
7.5°	681.5	681.5	683.0	681.9	681.9	683.0	682.6	683.3	684.1	684.4	684.4
10°	674.1	674.9	675.2	675.2	675.6	676.7	677.4	678.9	679.6	680.4	680.8
12.5°	664.9	666.0	666.4	666.0	667.1	668.6	670.4	672.3	673.4	674.9	676.0
15°	653.9	653.9	654.6	655.7	656.5	658.7	660.5	662.7	665.7	667.5	669.3
17.5°	641.7	642.5	643.6	643.6	645.0	648.7	649.8	653.1	656.5	658.3	662.0
20°	628.5	629.2	630.3	631.1	632.9	635.8	638.0	641.0	644.7	648.0	651.7
22.5°	618.2	616.7	617.4	618.2	620.0	622.6	625.2	628.8	632.5	635.8	639.5
25°	598.3	598.6	599.8	600.5	602.7	604.9	607.9	612.3	615.6	619.3	623.3
27.5°	571.4	571.8	573.6	573.6	575.5	579.1	581.0	584.7	589.1	592.8	597.5
30°	540.8	541.6	541.6	543.1	544.2	546.0	547.8	551.5	553.7	557.0	563.7
32.5°	512.9	513.6	513.2	512.9	511.8	511.4	511.0	511.8	512.5	513.6	516.2
35°	496.3	494.5	493.0	490.4	487.5	483.8	480.5	476.1	472.0	468.7	465.0
37.5°	480.5	480.1	477.9	474.2	468.3	461.7	454.0	444.4	434.8	424.5	414.6
40°	458.4	457.3	455.4	450.3	443.6	435.5	425.2	413.5	398.0	382.2	366.0
42.5°	420.8	421.2	419.0	414.9	408.7	400.9	390.3	377.4	360.8	342.0	321.0
45°	377.0	377.0	376.3	373.0	368.5	362.3	354.2	343.5	327.3	308.2	285.7
47.5°	331.4	331.7	330.6	329.9	328.0	324.0	318.1	310.0	298.6	280.2	257.7
50°	285.0	285.0	286.8	286.4	286.4	285.0	282.4	277.6	267.7	252.9	232.0
52.5°	238.6	239.3	240.4	241.9	243.7	246.7	243.7	241.5	235.3	223.8	205.8
55°	190.7	191.5	193.3	195.9	198.1	201.0	201.8	201.8	198.4	190.7	177.1
57.5°	149.8	148.7	150.2	152.4	155.4	158.3	160.5	163.1	162.7	157.6	146.5
60°	112.7	113.0	114.1	116.3	118.6	121.1	124.1	126.3	127.4	124.8	117.8
62.5°	82.1	82.1	83.6	85.8	86.9	90.6	92.4	93.5	94.6	94.2	89.8
65°	57.4	58.2	58.9	60.0	61.1	63.3	64.4	66.6	67.4	67.7	64.4
67.5°	40.5	39.4	40.1	40.9	42.0	43.4	45.7	45.7	46.8	46.8	44.5
70°	25.8	25.8	26.1	27.2	28.0	28.4	29.1	29.8	30.9	30.6	30.6
72.5°	17.3	16.9	17.3	17.7	18.0	19.1	19.1	19.5	20.3	20.6	19.1
75°	8.8	9.2	9.9	9.6	10.7	9.9	10.3	11.4	11.0	10.3	10.3
77.5°	7.4	7.4	7.4	7.0	7.7	7.7	7.4	8.1	7.7	7.7	7.4
80°	5.2	5.5	5.2	4.8	5.2	4.8	4.8	4.8	4.8	4.8	4.4
82.5°	4.1	3.3	3.7	3.3	3.7	3.7	3.3	2.9	2.9	3.3	2.9
85°	2.9	2.2	2.6	2.6	2.2	2.2	2.2	2.2	2.2	1.8	1.8
87.5°	1.8	1.1	1.1	1.1	1.5	1.5	1.5	1.1	1.5	1.5	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°	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9
2.5°	687.0	686.6	687.4	687.0	687.0	686.6	687.0	686.6	687.4	685.9	686.3
5°	687.0	686.3	686.6	687.0	687.4	686.6	686.6	686.6	687.4	686.6	687.0
7.5°	685.5	685.2	686.3	687.0	686.6	686.3	687.0	686.6	687.4	687.0	687.7
10°	682.6	683.0	683.7	684.8	685.2	685.5	686.3	686.3	687.4	685.9	686.6
12.5°	678.2	679.6	681.5	682.2	683.7	683.7	684.4	684.8	685.5	685.2	686.3
15°	672.7	674.5	676.7	678.5	680.4	681.5	682.6	683.0	684.1	683.0	683.3
17.5°	666.0	668.2	671.5	673.8	676.7	677.8	679.3	680.0	681.1	680.4	680.8
20°	656.8	659.4	663.1	666.4	668.2	670.8	672.7	673.8	674.5	673.8	674.1
22.5°	643.9	647.6	652.4	655.0	658.7	660.9	661.2	663.8	665.7	663.8	664.6
25°	628.8	632.5	636.2	641.7	645.0	647.6	650.2	650.6	652.4	652.0	651.7
27.5°	603.8	608.6	614.8	619.3	623.7	627.7	630.7	631.4	633.3	632.5	632.9
30°	569.6	574.7	580.6	587.6	593.9	597.9	601.6	604.2	606.0	604.9	604.5
32.5°	521.0	526.1	532.4	539.4	546.7	552.6	557.0	560.4	562.6	561.8	560.0
35°	465.4	466.8	470.9	476.4	482.7	488.9	493.0	496.7	499.2	500.0	500.0
37.5°	408.3	403.5	400.6	400.6	404.3	406.8	410.5	412.7	416.8	418.2	419.4
40°	353.1	342.0	331.7	324.0	318.8	318.5	318.5	319.6	323.3	328.0	332.5
42.5°	303.7	286.1	270.2	255.9	245.6	239.7	237.1	237.5	240.4	244.8	252.2
45°	264.3	242.3	222.4	205.1	191.1	181.9	177.5	177.1	179.3	184.5	192.6
47.5°	233.8	210.2	187.8	167.9	152.8	142.8	137.7	136.2	137.7	142.5	152.1
50°	208.4	184.1	160.9	140.3	124.1	113.8	109.0	107.1	109.0	113.0	122.6
52.5°	184.8	159.8	138.1	118.2	100.9	92.0	86.9	85.8	86.9	91.7	99.4
55°	157.6	136.2	114.9	95.0	79.9	71.1	67.0	65.9	67.0	71.4	79.5
57.5°	130.7	112.3	93.5	75.5	62.6	54.9	51.2	49.7	52.3	55.2	64.8
60°	105.7	90.9	75.1	59.3	48.6	41.6	38.7	38.3	39.0	42.7	49.3
62.5°	82.8	70.7	58.2	45.3	36.4	33.5	29.8	29.5	30.2	32.4	37.6
65°	59.6	51.9	42.3	33.1	26.1	22.1	20.6	21.0	21.7	23.2	28.0
67.5°	41.6	36.1	29.5	23.2	18.0	16.2	14.7	14.4	14.7	17.3	19.9
70°	28.0	24.7	19.9	17.7	12.5	9.9	10.3	9.2	10.7	10.7	12.9
72.5°	18.4	16.2	13.3	10.3	8.8	7.0	7.0	6.6	7.4	7.7	9.6
75°	9.6	7.4	7.4	5.2	3.7	1.8	3.3	2.9	2.6	2.9	3.7
77.5°	6.6	5.5	5.2	4.1	3.7	2.9	2.9	2.9	2.9	3.3	3.7
80°	4.1	4.1	2.9	2.6	2.2	1.8	2.2	2.2	2.2	2.2	2.6
82.5°	2.6	2.2	2.2	1.8	1.8	1.5	1.5	1.5	1.5	1.5	2.2
85°	2.2	1.5	1.5	1.1	1.5	2.6	1.1	1.5	1.5	1.5	1.1
87.5°	0.7	1.1	1.1	1.1	0.7	0.4	0.7	1.1	1.1	1.8	1.5
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°	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9	685.9
2.5°	687.0	687.4	687.4	687.0	687.0	686.3	687.7	686.6	687.0	688.5	687.4
5°	687.7	688.1	688.1	687.7	687.7	687.7	688.1	688.1	687.7	687.4	688.1
7.5°	689.2	688.9	688.9	688.1	688.1	687.4	688.1	687.0	687.7	687.0	688.1
10°	687.4	687.7	687.4	687.0	687.0	686.6	686.6	685.5	685.9	684.8	685.5
12.5°	686.3	685.9	685.9	685.2	684.4	683.7	683.3	682.2	682.2	679.6	680.8
15°	683.3	683.7	682.6	681.1	680.4	678.5	677.8	676.3	674.9	673.0	673.4
17.5°	680.8	679.6	678.2	676.7	673.8	672.3	670.8	668.6	667.9	665.7	664.9
20°	673.0	672.3	670.4	667.9	666.0	662.7	661.2	659.0	657.2	655.0	653.9
22.5°	663.1	662.3	660.1	657.6	654.6	653.1	651.7	647.6	645.8	643.6	643.2
25°	650.6	649.5	647.2	644.3	642.8	638.8	637.3	634.4	633.6	631.4	631.1
27.5°	631.4	629.9	627.4	623.7	621.1	618.5	617.1	614.8	614.1	611.9	611.5
30°	602.7	600.9	595.7	594.2	589.8	587.2	587.2	584.3	584.7	583.2	583.2
32.5°	557.4	554.5	550.4	547.5	544.5	543.1	543.1	541.9	542.7	542.7	543.4
35°	497.4	493.4	491.1	489.3	489.3	490.8	495.2	496.3	498.5	500.3	501.8
37.5°	420.4	420.1	422.7	424.9	430.4	436.7	444.4	451.0	457.3	461.7	466.1
40°	337.2	346.5	353.8	364.1	372.6	384.7	398.7	410.1	420.8	428.6	436.7
42.5°	263.2	275.0	290.5	305.6	320.7	337.2	355.7	371.5	385.5	396.2	404.6
45°	205.1	221.3	240.1	259.2	278.7	299.3	318.5	334.7	349.4	360.4	368.9
47.5°	165.3	183.0	204.3	225.3	247.4	269.1	290.5	304.5	316.6	325.5	333.2
50°	136.6	155.4	177.8	201.8	223.8	245.6	264.0	277.6	287.5	295.3	300.1
52.5°	114.1	134.0	157.9	181.9	204.0	223.8	240.4	250.7	258.8	264.3	268.8
55°	94.2	113.4	135.9	158.3	180.0	198.8	212.4	220.2	226.4	229.7	232.3
57.5°	77.0	94.6	115.2	135.9	154.6	170.1	180.8	188.5	191.5	194.0	193.7
60°	60.4	77.0	95.7	113.4	129.6	142.1	149.8	154.3	156.5	157.6	156.8
62.5°	47.5	62.6	77.0	92.4	104.2	114.9	122.2	122.2	123.3	123.7	124.8
65°	35.3	46.8	59.3	70.7	80.3	87.3	91.3	92.4	93.9	93.5	92.8
67.5°	26.1	34.6	43.8	52.3	58.9	63.3	66.3	68.9	68.5	67.7	67.4
70°	18.0	23.6	31.7	36.8	41.6	46.0	46.8	47.1	47.5	47.9	47.1
72.5°	12.5	16.6	21.0	25.4	28.4	30.2	32.0	32.4	32.4	32.4	32.0
75°	6.3	8.5	12.5	14.4	16.9	17.7	19.1	19.1	20.3	18.8	18.4
77.5°	5.5	6.6	8.8	10.3	11.4	12.5	12.9	14.0	13.6	12.9	13.3
80°	3.3	4.1	5.5	6.3	7.7	8.1	8.5	8.8	8.5	8.8	8.8
82.5°	2.6	2.9	3.7	3.7	4.8	4.8	5.2	5.2	5.5	5.5	5.5
85°	1.5	2.6	2.2	4.4	2.9	2.9	3.7	4.4	3.7	3.7	4.4
87.5°	1.5	1.5	1.1	1.5	1.5	1.5	1.8	2.2	2.2	2.6	2.2
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°	685.9	685.9	685.9	685.9
2.5°	687.0	687.7	686.6	686.3
5°	688.1	688.1	687.4	687.4
7.5°	688.1	688.1	687.0	686.3
10°	685.2	685.2	684.1	683.3
12.5°	679.6	679.6	679.3	678.2
15°	672.7	672.7	671.2	670.1
17.5°	663.1	663.8	662.0	662.0
20°	652.8	652.4	650.9	650.2
22.5°	642.1	641.4	641.0	638.8
25°	630.7	629.9	628.8	627.7
27.5°	611.2	610.8	609.7	608.2
30°	581.3	581.0	579.5	579.5
32.5°	542.7	542.3	540.8	541.2
35°	502.6	504.0	503.3	501.8
37.5°	469.1	470.2	470.9	470.2
40°	441.1	444.4	444.8	445.5
42.5°	411.3	415.7	417.1	417.9
45°	375.5	379.6	382.9	382.2
47.5°	339.1	342.0	345.0	342.8
50°	304.1	306.0	307.1	307.1
52.5°	271.0	271.0	270.6	271.0
55°	233.1	233.1	231.6	232.3
57.5°	193.3	194.0	192.9	191.1
60°	156.5	154.6	153.9	152.8
62.5°	121.9	121.9	119.3	122.6
65°	91.3	90.2	89.1	88.7
67.5°	66.3	65.9	64.8	64.4
70°	46.8	45.3	44.9	44.2
72.5°	31.3	31.3	30.6	30.6
75°	19.1	17.3	16.9	17.3
77.5°	13.3	12.9	12.9	12.5
80°	8.8	8.5	9.2	8.1
82.5°	5.5	5.9	5.5	5.9
85°	3.7	4.4	4.1	4.1
87.5°	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)