

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: P246073

Luminaire Tested: **LD8B15D010 ER8B15935 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246073
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 ER8B15935 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1305.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

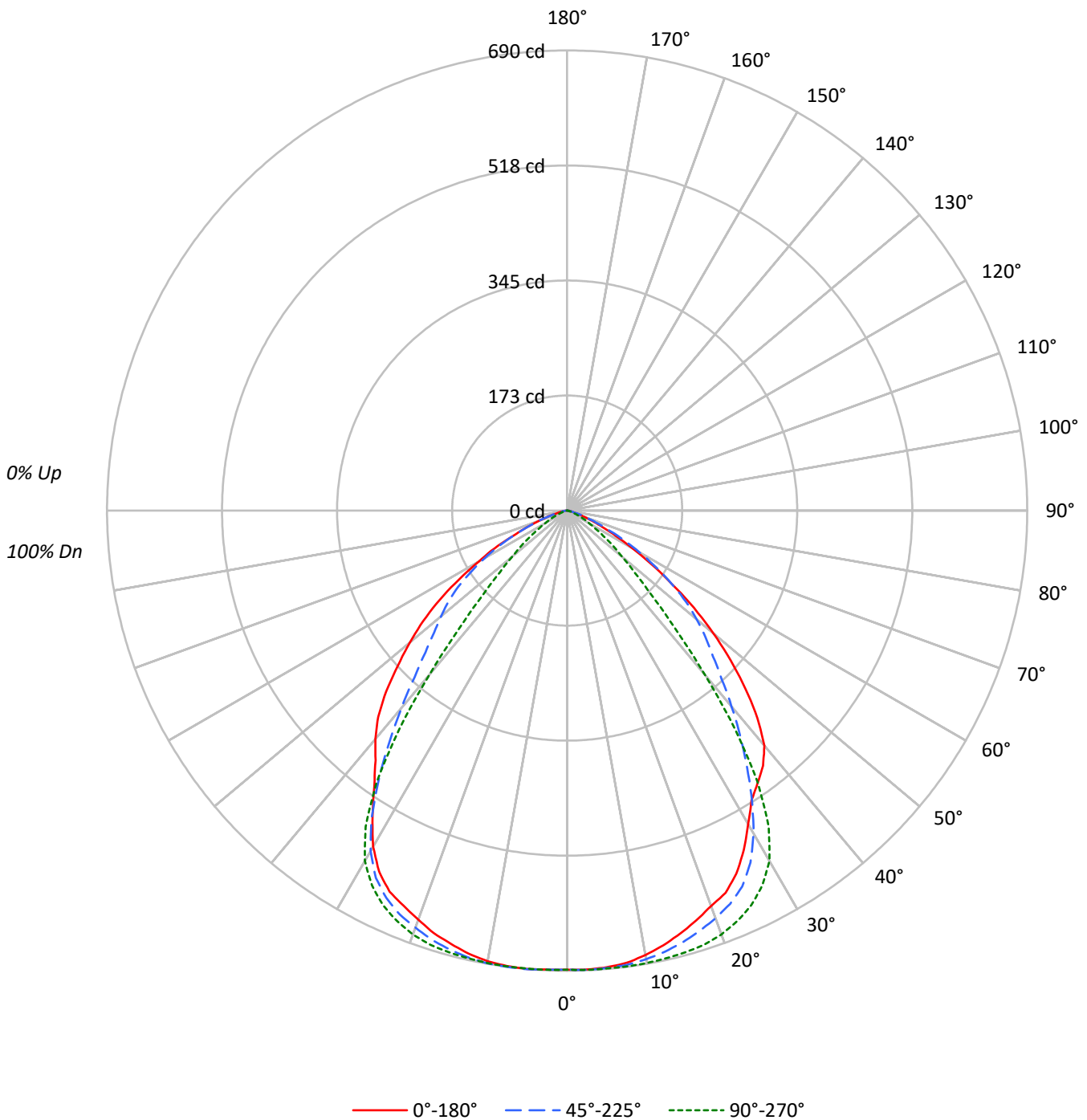
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21231	21231	21231
5°	21278	21337	21358
10°	21189	21571	21480
15°	20955	21887	21475
20°	20703	22193	21419
25°	20435	22221	21442
30°	19331	21595	20712
35°	18754	18769	18965
40°	18521	12913	18002
45°	16506	7754	16728
50°	13725	5162	14785
55°	10290	3559	12537
60°	6975	2368	9461
65°	4210	1540	6501
70°	2335	829	3994
75°	1060	357	2073
80°	923	391	1438
85°	1061	531	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	5.0
10°-20°	190.8	14.6
20°-30°	289.7	22.2
30°-40°	304.2	23.3
40°-50°	228.1	17.5
50°-60°	146.3	11.2
60°-70°	62.6	4.8
70°-80°	14.8	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°	546.2	41.9
0°-40°	850.4	65.2
0°-60°	1224.9	93.9
0°-90°	1305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1305.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	688	688	688	688	688	
5°	687	688	689	690	690	65
15°	656	670	686	681	673	185
25°	601	622	653	641	630	274
35°	498	470	499	493	504	313
45°	378	309	178	300	384	290
55°	191	191	66	200	233	174
65°	58	68	21	88	89	62
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°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
2.5°	688.9	689.7	689.3	689.3	688.9	689.3	689.3	690.0	690.0	689.3	688.9
5°	687.4	688.2	688.2	687.4	687.4	689.3	688.2	688.9	688.9	688.5	688.5
7.5°	684.1	684.1	685.6	684.5	684.5	685.6	685.2	686.0	686.7	687.1	687.1
10°	676.7	677.5	677.8	677.8	678.2	679.3	680.0	681.5	682.3	683.0	683.4
12.5°	667.5	668.6	669.0	668.6	669.7	671.2	673.0	674.9	676.0	677.5	678.6
15°	656.4	656.4	657.1	658.2	659.0	661.2	663.0	665.3	668.2	670.1	671.9
17.5°	644.2	644.9	646.0	646.0	647.5	651.2	652.3	655.7	659.0	660.8	664.5
20°	630.9	631.6	632.7	633.5	635.3	638.3	640.5	643.5	647.2	650.5	654.2
22.5°	620.5	619.1	619.8	620.5	622.4	625.0	627.6	631.3	635.0	638.3	642.0
25°	600.6	601.0	602.1	602.8	605.0	607.2	610.2	614.6	618.0	621.7	625.7
27.5°	573.6	574.0	575.8	575.8	577.7	581.4	583.2	586.9	591.3	595.0	599.8
30°	542.9	543.7	543.7	545.1	546.2	548.1	549.9	553.6	555.9	559.2	565.8
32.5°	514.8	515.6	515.2	514.8	513.7	513.4	513.0	513.7	514.5	515.6	518.2
35°	498.2	496.4	494.9	492.3	489.3	485.6	482.3	477.9	473.8	470.5	466.8
37.5°	482.3	481.9	479.7	476.0	470.1	463.5	455.7	446.1	436.5	426.1	416.2
40°	460.1	459.0	457.2	452.0	445.4	437.2	426.9	415.0	399.5	383.6	367.4
42.5°	422.4	422.8	420.6	416.5	410.2	402.5	391.8	378.8	362.2	343.3	322.3
45°	378.5	378.5	377.7	374.4	370.0	363.7	355.5	344.8	328.6	309.3	286.8
47.5°	332.6	333.0	331.9	331.2	329.3	325.2	319.3	311.2	299.7	281.3	258.7
50°	286.1	286.1	287.9	287.5	287.5	286.1	283.5	278.7	268.7	253.9	232.8
52.5°	239.5	240.2	241.3	242.8	244.7	247.6	244.7	242.4	236.2	224.7	206.6
55°	191.4	192.2	194.0	196.6	198.8	201.8	202.5	202.5	199.2	191.4	177.8
57.5°	150.4	149.3	150.8	153.0	156.0	158.9	161.1	163.7	163.4	158.2	147.1
60°	113.1	113.5	114.6	116.8	119.0	121.6	124.6	126.8	127.9	125.3	118.3
62.5°	82.4	82.4	83.9	86.1	87.2	90.9	92.8	93.9	95.0	94.6	90.2
65°	57.7	58.4	59.1	60.2	61.3	63.6	64.7	66.9	67.6	68.0	64.7
67.5°	40.7	39.5	40.3	41.0	42.1	43.6	45.8	45.8	46.9	46.9	44.7
70°	25.9	25.9	26.2	27.3	28.1	28.5	29.2	29.9	31.0	30.7	30.7
72.5°	17.4	17.0	17.4	17.7	18.1	19.2	19.2	19.6	20.3	20.7	19.2
75°	8.9	9.2	10.0	9.6	10.7	10.0	10.3	11.5	11.1	10.3	10.3
77.5°	7.4	7.4	7.4	7.0	7.8	7.8	7.4	8.1	7.8	7.8	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	3.0	3.0	3.3	3.0
85°	3.0	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°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
2.5°	689.7	689.3	690.0	689.7	689.7	689.3	689.7	689.3	690.0	688.5	688.9
5°	689.7	688.9	689.3	689.7	690.0	689.3	689.3	689.3	690.0	689.3	689.7
7.5°	688.2	687.8	688.9	689.7	689.3	688.9	689.7	689.3	690.0	689.7	690.4
10°	685.2	685.6	686.3	687.4	687.8	688.2	688.9	688.9	690.0	688.5	689.3
12.5°	680.8	682.3	684.1	684.8	686.3	686.3	687.1	687.4	688.2	687.8	688.9
15°	675.2	677.1	679.3	681.2	683.0	684.1	685.2	685.6	686.7	685.6	686.0
17.5°	668.6	670.8	674.1	676.3	679.3	680.4	681.9	682.6	683.7	683.0	683.4
20°	659.3	661.9	665.6	669.0	670.8	673.4	675.2	676.3	677.1	676.3	676.7
22.5°	646.4	650.1	654.9	657.5	661.2	663.4	663.8	666.4	668.2	666.4	667.1
25°	631.3	635.0	638.7	644.2	647.5	650.1	652.7	653.1	654.9	654.5	654.2
27.5°	606.1	610.9	617.2	621.7	626.1	630.2	633.1	633.8	635.7	635.0	635.3
30°	571.8	576.9	582.8	589.9	596.1	600.2	603.9	606.5	608.3	607.2	606.9
32.5°	523.0	528.1	534.4	541.4	548.8	554.7	559.2	562.5	564.7	564.0	562.1
35°	467.2	468.6	472.7	478.3	484.5	490.8	494.9	498.6	501.2	501.9	501.9
37.5°	409.9	405.1	402.1	402.1	405.8	408.4	412.1	414.3	418.4	419.9	421.0
40°	354.4	343.3	333.0	325.2	320.1	319.7	319.7	320.8	324.5	329.3	333.7
42.5°	304.9	287.2	271.3	256.9	246.5	240.6	238.0	238.4	241.3	245.8	253.2
45°	265.4	243.2	223.2	205.9	191.8	182.6	178.1	177.8	180.0	185.2	193.3
47.5°	234.7	211.0	188.5	168.5	153.4	143.4	138.2	136.8	138.2	143.0	152.6
50°	209.2	184.8	161.5	140.8	124.6	114.2	109.4	107.6	109.4	113.5	123.1
52.5°	185.5	160.4	138.6	118.6	101.3	92.4	87.2	86.1	87.2	92.0	99.8
55°	158.2	136.8	115.3	95.4	80.2	71.3	67.3	66.2	67.3	71.7	79.8
57.5°	131.2	112.7	93.9	75.8	62.8	55.1	51.4	49.9	52.5	55.4	65.0
60°	106.1	91.3	75.4	59.5	48.8	41.8	38.8	38.4	39.2	42.9	49.5
62.5°	83.2	71.0	58.4	45.5	36.6	33.6	29.9	29.6	30.3	32.5	37.7
65°	59.9	52.1	42.5	33.3	26.2	22.2	20.7	21.1	21.8	23.3	28.1
67.5°	41.8	36.2	29.6	23.3	18.1	16.3	14.8	14.4	14.8	17.4	20.0
70°	28.1	24.8	20.0	17.7	12.6	10.0	10.3	9.2	10.7	10.7	12.9
72.5°	18.5	16.3	13.3	10.3	8.9	7.0	7.0	6.7	7.4	7.8	9.6
75°	9.6	7.4	7.4	5.2	3.7	1.8	3.3	3.0	2.6	3.0	3.7
77.5°	6.7	5.5	5.2	4.1	3.7	3.0	3.0	3.0	3.0	3.3	3.7
80°	4.1	4.1	3.0	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°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
2.5°	689.7	690.0	690.0	689.7	689.7	688.9	690.4	689.3	689.7	691.1	690.0
5°	690.4	690.8	690.8	690.4	690.4	690.4	690.8	690.8	690.4	690.0	690.8
7.5°	691.9	691.5	691.5	690.8	690.8	690.0	690.8	689.7	690.4	689.7	690.8
10°	690.0	690.4	690.0	689.7	689.7	689.3	689.3	688.2	688.5	687.4	688.2
12.5°	688.9	688.5	688.5	687.8	687.1	686.3	686.0	684.8	684.8	682.3	683.4
15°	686.0	686.3	685.2	683.7	683.0	681.2	680.4	678.9	677.5	675.6	676.0
17.5°	683.4	682.3	680.8	679.3	676.3	674.9	673.4	671.2	670.4	668.2	667.5
20°	675.6	674.9	673.0	670.4	668.6	665.3	663.8	661.6	659.7	657.5	656.4
22.5°	665.6	664.9	662.7	660.1	657.1	655.7	654.2	650.1	648.3	646.0	645.7
25°	653.1	652.0	649.7	646.8	645.3	641.2	639.8	636.8	636.1	633.8	633.5
27.5°	633.8	632.4	629.8	626.1	623.5	620.9	619.4	617.2	616.5	614.3	613.9
30°	605.0	603.2	598.0	596.5	592.1	589.5	589.5	586.5	586.9	585.4	585.4
32.5°	559.6	556.6	552.5	549.6	546.6	545.1	545.1	544.0	544.8	544.8	545.5
35°	499.3	495.3	493.0	491.2	491.2	492.7	497.1	498.2	500.4	502.3	503.8
37.5°	422.1	421.7	424.3	426.5	432.1	438.3	446.1	452.7	459.0	463.5	467.9
40°	338.5	347.8	355.2	365.5	374.0	386.2	400.3	411.7	422.4	430.2	438.3
42.5°	264.3	276.1	291.6	306.8	321.9	338.5	357.0	372.9	387.0	397.7	406.2
45°	205.9	222.1	241.0	260.2	279.8	300.5	319.7	336.0	350.7	361.8	370.3
47.5°	165.9	183.7	205.1	226.2	248.4	270.2	291.6	305.7	317.8	326.7	334.5
50°	137.1	156.0	178.5	202.5	224.7	246.5	265.0	278.7	288.7	296.4	301.2
52.5°	114.6	134.5	158.6	182.6	204.7	224.7	241.3	251.7	259.8	265.4	269.8
55°	94.6	113.8	136.4	158.9	180.7	199.6	213.2	221.0	227.3	230.6	233.2
57.5°	77.2	95.0	115.7	136.4	155.2	170.8	181.5	189.2	192.2	194.8	194.4
60°	60.6	77.2	96.1	113.8	130.1	142.7	150.4	154.9	157.1	158.2	157.4
62.5°	47.7	62.8	77.2	92.8	104.6	115.3	122.7	122.7	123.8	124.2	125.3
65°	35.5	46.9	59.5	71.0	80.6	87.6	91.7	92.8	94.2	93.9	93.1
67.5°	26.2	34.7	44.0	52.5	59.1	63.6	66.5	69.1	68.7	68.0	67.6
70°	18.1	23.7	31.8	37.0	41.8	46.2	46.9	47.3	47.7	48.0	47.3
72.5°	12.6	16.6	21.1	25.5	28.5	30.3	32.2	32.5	32.5	32.5	32.2
75°	6.3	8.5	12.6	14.4	17.0	17.7	19.2	19.2	20.3	18.8	18.5
77.5°	5.5	6.7	8.9	10.3	11.5	12.6	12.9	14.0	13.7	12.9	13.3
80°	3.3	4.1	5.5	6.3	7.8	8.1	8.5	8.9	8.5	8.9	8.9
82.5°	2.6	3.0	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	3.0	3.0	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°	688.5	688.5	688.5	688.5
2.5°	689.7	690.4	689.3	688.9
5°	690.8	690.8	690.0	690.0
7.5°	690.8	690.8	689.7	688.9
10°	687.8	687.8	686.7	686.0
12.5°	682.3	682.3	681.9	680.8
15°	675.2	675.2	673.8	672.7
17.5°	665.6	666.4	664.5	664.5
20°	655.3	654.9	653.4	652.7
22.5°	644.6	643.8	643.5	641.2
25°	633.1	632.4	631.3	630.2
27.5°	613.5	613.2	612.0	610.6
30°	583.6	583.2	581.7	581.7
32.5°	544.8	544.4	542.9	543.3
35°	504.5	506.0	505.2	503.8
37.5°	470.9	472.0	472.7	472.0
40°	442.8	446.1	446.5	447.2
42.5°	412.8	417.3	418.7	419.5
45°	377.0	381.0	384.4	383.6
47.5°	340.4	343.3	346.3	344.1
50°	305.3	307.1	308.2	308.2
52.5°	272.0	272.0	271.6	272.0
55°	233.9	233.9	232.5	233.2
57.5°	194.0	194.8	193.7	191.8
60°	157.1	155.2	154.5	153.4
62.5°	122.3	122.3	119.8	123.1
65°	91.7	90.5	89.4	89.1
67.5°	66.5	66.2	65.0	64.7
70°	46.9	45.5	45.1	44.3
72.5°	31.4	31.4	30.7	30.7
75°	19.2	17.4	17.0	17.4
77.5°	13.3	12.9	12.9	12.6
80°	8.9	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

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