

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: P244614

Luminaire Tested: **LSR8B10D010 EC8B10850 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244614
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 EC8B10850 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1171.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

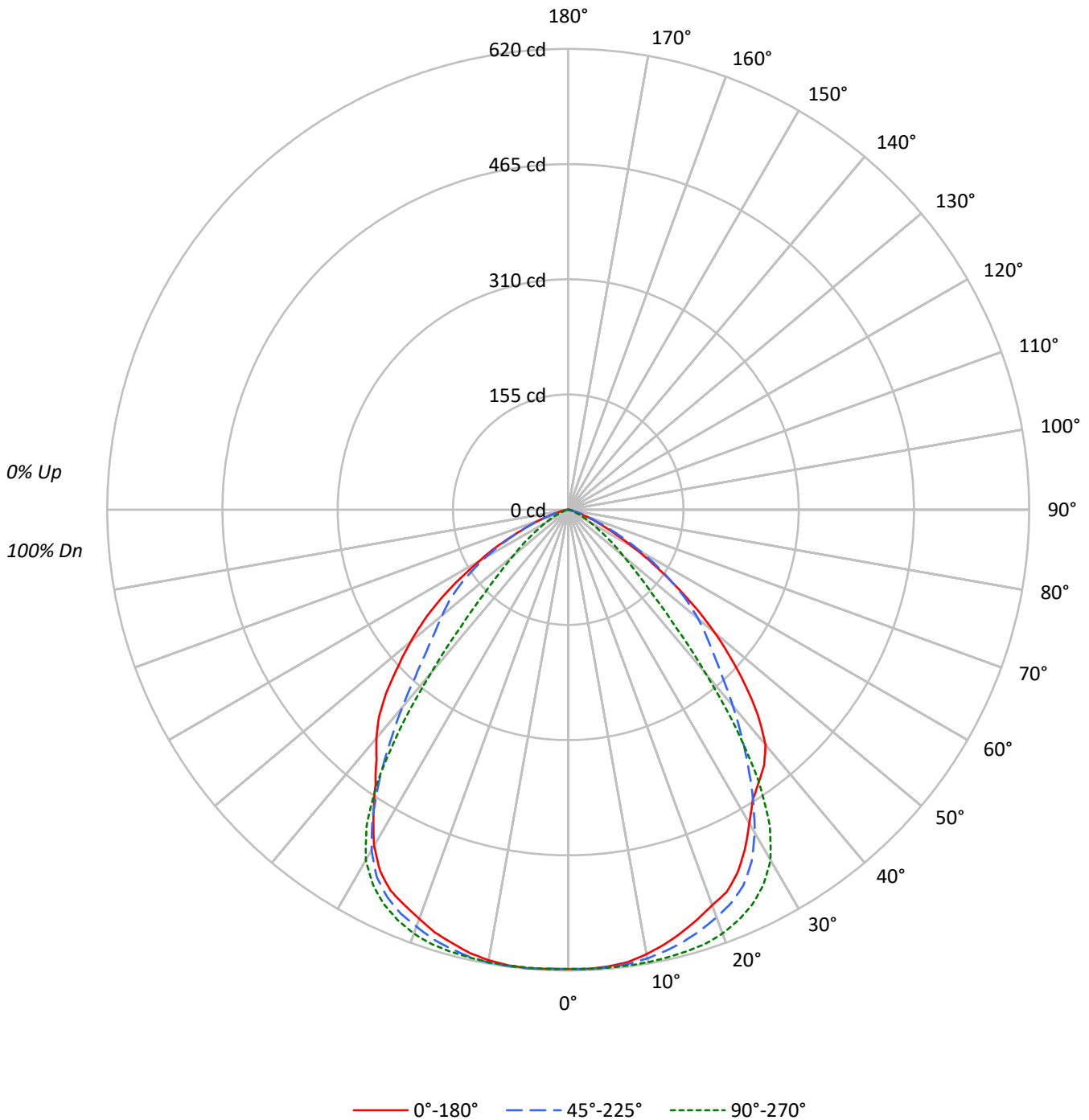
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	19051	19051	19051
5°	19092	19145	19167
10°	19013	19357	19273
15°	18803	19640	19269
20°	18577	19916	19220
25°	18336	19938	19237
30°	17348	19377	18587
35°	16831	16842	17015
40°	16621	11589	16154
45°	14810	6956	15010
50°	12315	4629	13269
55°	9236	3193	11252
60°	6260	2128	8486
65°	3772	1379	5830
70°	2092	748	3588
75°	953	322	1859
80°	817	355	1296
85°	955	460	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	5.0
10°-20°	171.2	14.6
20°-30°	259.9	22.2
30°-40°	273.0	23.3
40°-50°	204.7	17.5
50°-60°	131.3	11.2
60°-70°	56.2	4.8
70°-80°	13.3	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°	490.1	41.9
0°-40°	763.1	65.2
0°-60°	1099.1	93.9
0°-90°	1171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1171.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	618	618	618	618	618	
5°	617	618	618	620	619	59
15°	589	601	615	611	604	166
25°	539	558	586	575	565	246
35°	447	422	447	442	452	281
45°	340	278	160	270	344	260
55°	172	172	59	179	209	156
65°	52	61	19	79	80	55
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°	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
2.5°	618.2	618.8	618.5	618.5	618.2	618.5	618.5	619.2	619.2	618.5	618.2
5°	616.8	617.5	617.5	616.8	616.8	618.5	617.5	618.2	618.2	617.8	617.8
7.5°	613.9	613.9	615.2	614.2	614.2	615.2	614.9	615.5	616.2	616.5	616.5
10°	607.2	607.9	608.2	608.2	608.6	609.5	610.2	611.5	612.2	612.9	613.2
12.5°	598.9	599.9	600.3	599.9	600.9	602.3	603.9	605.6	606.6	607.9	608.9
15°	589.0	589.0	589.7	590.7	591.3	593.3	595.0	596.9	599.6	601.3	602.9
17.5°	578.0	578.7	579.7	579.7	581.0	584.3	585.3	588.3	591.3	593.0	596.3
20°	566.1	566.8	567.8	568.4	570.1	572.7	574.7	577.4	580.7	583.7	587.0
22.5°	556.8	555.5	556.2	556.8	558.5	560.8	563.1	566.4	569.8	572.7	576.1
25°	538.9	539.2	540.2	540.9	542.9	544.9	547.5	551.5	554.5	557.8	561.5
27.5°	514.7	515.0	516.7	516.7	518.3	521.7	523.3	526.6	530.6	533.9	538.3
30°	487.2	487.8	487.8	489.2	490.2	491.8	493.5	496.8	498.8	501.8	507.7
32.5°	462.0	462.6	462.3	462.0	461.0	460.6	460.3	461.0	461.6	462.6	465.0
35°	447.1	445.4	444.1	441.7	439.1	435.8	432.8	428.8	425.2	422.2	418.9
37.5°	432.8	432.5	430.5	427.1	421.8	415.9	408.9	400.3	391.7	382.4	373.4
40°	412.9	411.9	410.2	405.6	399.6	392.3	383.0	372.4	358.5	344.2	329.7
42.5°	379.1	379.4	377.4	373.8	368.1	361.2	351.5	339.9	325.0	308.1	289.2
45°	339.6	339.6	338.9	335.9	332.0	326.3	319.0	309.4	294.8	277.6	257.3
47.5°	298.5	298.8	297.8	297.2	295.5	291.8	286.5	279.2	269.0	252.4	232.1
50°	256.7	256.7	258.3	258.0	258.0	256.7	254.4	250.1	241.1	227.8	208.9
52.5°	214.9	215.6	216.6	217.9	219.5	222.2	219.5	217.6	211.9	201.6	185.4
55°	171.8	172.5	174.1	176.4	178.4	181.1	181.7	181.7	178.8	171.8	159.5
57.5°	135.0	134.0	135.3	137.3	140.0	142.6	144.6	146.9	146.6	141.9	132.0
60°	101.5	101.8	102.8	104.8	106.8	109.1	111.8	113.8	114.7	112.4	106.1
62.5°	74.0	74.0	75.3	77.3	78.3	81.6	83.2	84.2	85.2	84.9	80.9
65°	51.7	52.4	53.1	54.1	55.1	57.0	58.0	60.0	60.7	61.0	58.0
67.5°	36.5	35.5	36.2	36.8	37.8	39.1	41.1	41.1	42.1	42.1	40.1
70°	23.2	23.2	23.5	24.5	25.2	25.5	26.2	26.9	27.9	27.5	27.5
72.5°	15.6	15.3	15.6	15.9	16.3	17.2	17.2	17.6	18.2	18.6	17.2
75°	8.0	8.3	9.0	8.6	9.6	9.0	9.3	10.3	9.9	9.3	9.3
77.5°	6.6	6.6	6.6	6.3	7.0	7.0	6.6	7.3	7.0	7.0	6.6
80°	4.6	5.0	4.6	4.3	4.6	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°	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
2.5°	618.8	618.5	619.2	618.8	618.8	618.5	618.8	618.5	619.2	617.8	618.2
5°	618.8	618.2	618.5	618.8	619.2	618.5	618.5	618.5	619.2	618.5	618.8
7.5°	617.5	617.2	618.2	618.8	618.5	618.2	618.8	618.5	619.2	618.8	619.5
10°	614.9	615.2	615.9	616.8	617.2	617.5	618.2	618.2	619.2	617.8	618.5
12.5°	610.9	612.2	613.9	614.5	615.9	615.9	616.5	616.8	617.5	617.2	618.2
15°	605.9	607.6	609.5	611.2	612.9	613.9	614.9	615.2	616.2	615.2	615.5
17.5°	599.9	601.9	604.9	606.9	609.5	610.5	611.9	612.5	613.5	612.9	613.2
20°	591.6	594.0	597.3	600.3	601.9	604.2	605.9	606.9	607.6	606.9	607.2
22.5°	580.0	583.4	587.7	590.0	593.3	595.3	595.6	597.9	599.6	597.9	598.6
25°	566.4	569.8	573.1	578.0	581.0	583.4	585.7	586.0	587.7	587.3	587.0
27.5°	543.9	548.2	553.8	557.8	561.8	565.4	568.1	568.8	570.4	569.8	570.1
30°	513.0	517.7	523.0	529.3	534.9	538.6	541.9	544.2	545.9	544.9	544.6
32.5°	469.3	473.9	479.6	485.8	492.5	497.8	501.8	504.8	506.7	506.1	504.4
35°	419.2	420.5	424.2	429.1	434.8	440.4	444.1	447.4	449.7	450.4	450.4
37.5°	367.8	363.5	360.8	360.8	364.1	366.5	369.8	371.8	375.4	376.7	377.7
40°	318.0	308.1	298.8	291.8	287.2	286.9	286.9	287.9	291.2	295.5	299.5
42.5°	273.6	257.7	243.4	230.5	221.2	215.9	213.6	213.9	216.6	220.5	227.2
45°	238.1	218.2	200.3	184.7	172.1	163.8	159.9	159.5	161.5	166.1	173.5
47.5°	210.6	189.4	169.1	151.2	137.6	128.7	124.0	122.7	124.0	128.3	137.0
50°	187.7	165.8	144.9	126.4	111.8	102.5	98.2	96.5	98.2	101.8	110.4
52.5°	166.5	143.9	124.4	106.5	90.9	82.9	78.3	77.3	78.3	82.6	89.5
55°	141.9	122.7	103.5	85.6	72.0	64.0	60.4	59.4	60.4	64.3	71.6
57.5°	117.7	101.1	84.2	68.0	56.4	49.4	46.1	44.8	47.1	49.7	58.4
60°	95.2	81.9	67.7	53.4	43.8	37.5	34.8	34.5	35.2	38.5	44.4
62.5°	74.6	63.7	52.4	40.8	32.8	30.2	26.9	26.5	27.2	29.2	33.8
65°	53.7	46.8	38.1	29.8	23.5	19.9	18.6	18.9	19.6	20.9	25.2
67.5°	37.5	32.5	26.5	20.9	16.3	14.6	13.3	12.9	13.3	15.6	17.9
70°	25.2	22.2	17.9	15.9	11.3	9.0	9.3	8.3	9.6	9.6	11.6
72.5°	16.6	14.6	11.9	9.3	8.0	6.3	6.3	6.0	6.6	7.0	8.6
75°	8.6	6.6	6.6	4.6	3.3	1.7	3.0	2.7	2.3	2.7	3.3
77.5°	6.0	5.0	4.6	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°	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8
2.5°	618.8	619.2	619.2	618.8	618.8	618.2	619.5	618.5	618.8	620.2	619.2
5°	619.5	619.8	619.8	619.5	619.5	619.5	619.8	619.8	619.5	619.2	619.8
7.5°	620.8	620.5	620.5	619.8	619.8	619.2	619.8	618.8	619.5	618.8	619.8
10°	619.2	619.5	619.2	618.8	618.8	618.5	618.5	617.5	617.8	616.8	617.5
12.5°	618.2	617.8	617.8	617.2	616.5	615.9	615.5	614.5	614.5	612.2	613.2
15°	615.5	615.9	614.9	613.5	612.9	611.2	610.5	609.2	607.9	606.2	606.6
17.5°	613.2	612.2	610.9	609.5	606.9	605.6	604.2	602.3	601.6	599.6	598.9
20°	606.2	605.6	603.9	601.6	599.9	596.9	595.6	593.6	592.0	590.0	589.0
22.5°	597.3	596.6	594.6	592.3	589.7	588.3	587.0	583.4	581.7	579.7	579.4
25°	586.0	585.0	583.0	580.4	579.0	575.4	574.1	571.4	570.8	568.8	568.4
27.5°	568.8	567.4	565.1	561.8	559.5	557.2	555.8	553.8	553.2	551.2	550.9
30°	542.9	541.2	536.6	535.3	531.3	529.0	529.0	526.3	526.6	525.3	525.3
32.5°	502.1	499.4	495.8	493.1	490.5	489.2	489.2	488.2	488.8	488.8	489.5
35°	448.0	444.4	442.4	440.7	440.7	442.1	446.1	447.1	449.0	450.7	452.0
37.5°	378.7	378.4	380.7	382.7	387.7	393.3	400.3	406.3	411.9	415.9	419.9
40°	303.8	312.1	318.7	328.0	335.6	346.6	359.2	369.4	379.1	386.0	393.3
42.5°	237.1	247.7	261.7	275.3	288.9	303.8	320.4	334.6	347.2	356.8	364.5
45°	184.7	199.3	216.2	233.5	251.1	269.6	286.9	301.5	314.7	324.7	332.3
47.5°	148.9	164.8	184.1	203.0	222.9	242.4	261.7	274.3	285.2	293.2	300.1
50°	123.0	140.0	160.2	181.7	201.6	221.2	237.8	250.1	259.0	266.0	270.3
52.5°	102.8	120.7	142.3	163.8	183.7	201.6	216.6	225.8	233.1	238.1	242.1
55°	84.9	102.1	122.4	142.6	162.2	179.1	191.4	198.3	204.0	206.9	209.3
57.5°	69.3	85.2	103.8	122.4	139.3	153.2	162.8	169.8	172.5	174.8	174.4
60°	54.4	69.3	86.2	102.1	116.7	128.0	135.0	139.0	140.9	141.9	141.3
62.5°	42.8	56.4	69.3	83.2	93.9	103.5	110.1	110.1	111.1	111.4	112.4
65°	31.8	42.1	53.4	63.7	72.3	78.6	82.3	83.2	84.6	84.2	83.6
67.5°	23.5	31.2	39.5	47.1	53.1	57.0	59.7	62.0	61.7	61.0	60.7
70°	16.3	21.2	28.5	33.2	37.5	41.5	42.1	42.4	42.8	43.1	42.4
72.5°	11.3	14.9	18.9	22.9	25.5	27.2	28.9	29.2	29.2	29.2	28.9
75°	5.6	7.6	11.3	12.9	15.3	15.9	17.2	17.2	18.2	16.9	16.6
77.5°	5.0	6.0	8.0	9.3	10.3	11.3	11.6	12.6	12.3	11.6	11.9
80°	3.0	3.7	5.0	5.6	7.0	7.3	7.6	8.0	7.6	8.0	8.0
82.5°	2.3	2.7	3.3	3.3	4.3	4.3	4.6	4.6	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°	617.8	617.8	617.8	617.8
2.5°	618.8	619.5	618.5	618.2
5°	619.8	619.8	619.2	619.2
7.5°	619.8	619.8	618.8	618.2
10°	617.2	617.2	616.2	615.5
12.5°	612.2	612.2	611.9	610.9
15°	605.9	605.9	604.6	603.6
17.5°	597.3	597.9	596.3	596.3
20°	588.0	587.7	586.3	585.7
22.5°	578.4	577.7	577.4	575.4
25°	568.1	567.4	566.4	565.4
27.5°	550.5	550.2	549.2	547.9
30°	523.7	523.3	522.0	522.0
32.5°	488.8	488.5	487.2	487.5
35°	452.7	454.0	453.4	452.0
37.5°	422.5	423.5	424.2	423.5
40°	397.3	400.3	400.6	401.3
42.5°	370.4	374.4	375.7	376.4
45°	338.3	341.9	344.9	344.2
47.5°	305.4	308.1	310.7	308.8
50°	273.9	275.6	276.6	276.6
52.5°	244.1	244.1	243.8	244.1
55°	209.9	209.9	208.6	209.3
57.5°	174.1	174.8	173.8	172.1
60°	140.9	139.3	138.6	137.6
62.5°	109.8	109.8	107.5	110.4
65°	82.3	81.3	80.3	79.9
67.5°	59.7	59.4	58.4	58.0
70°	42.1	40.8	40.5	39.8
72.5°	28.2	28.2	27.5	27.5
75°	17.2	15.6	15.3	15.6
77.5°	11.9	11.6	11.6	11.3
80°	8.0	7.6	8.3	7.3
82.5°	5.0	5.3	5.0	5.3
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

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