

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: P245442

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B109727 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 809.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

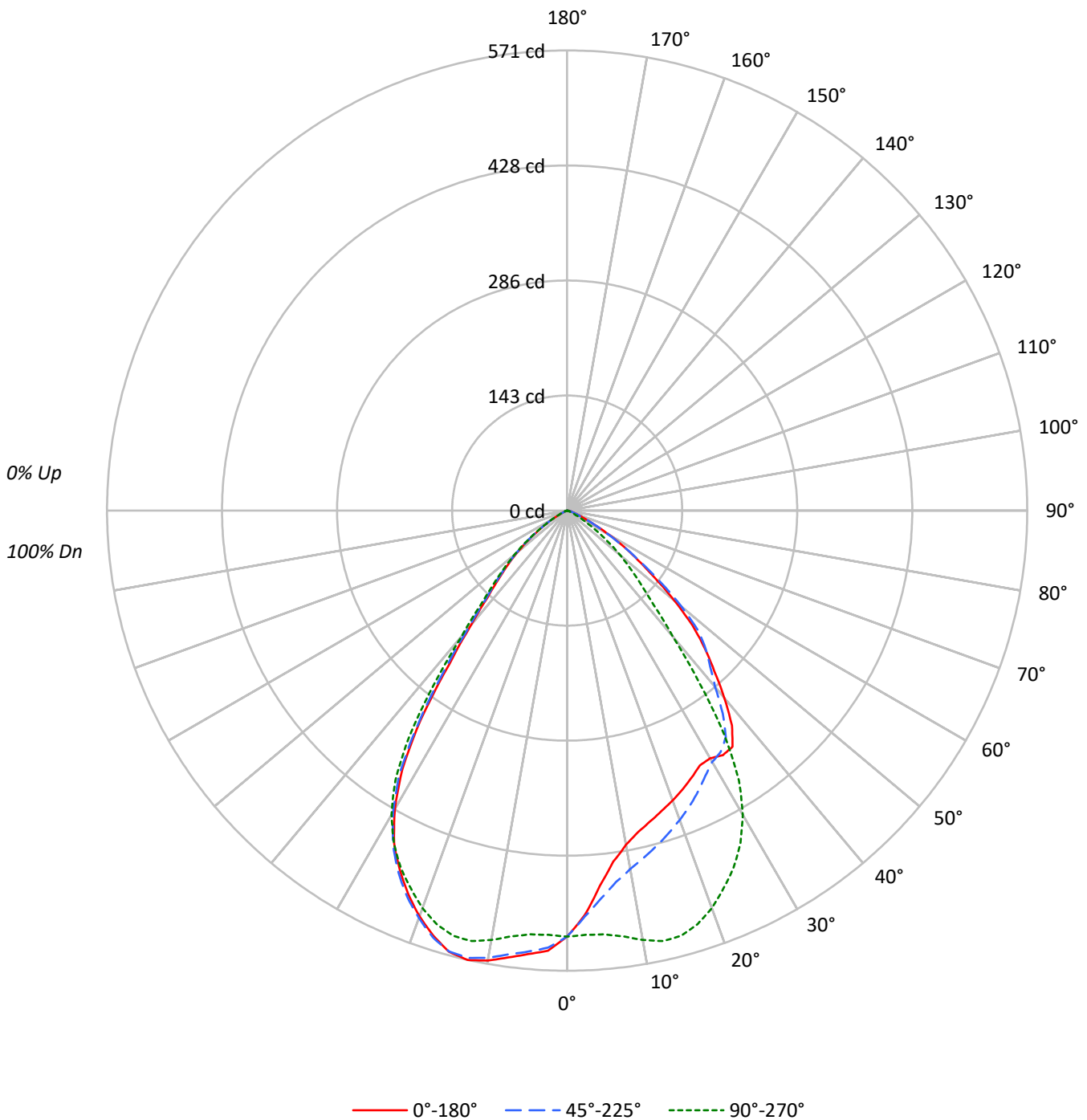
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16297	16297	16297
5°	14459	16338	17102
10°	13182	16943	17754
15°	12741	17440	18091
20°	12558	17225	17579
25°	12436	16631	16733
30°	12637	15521	15233
35°	13469	12844	11914
40°	12209	8224	7447
45°	10536	5626	5237
50°	8314	4102	3862
55°	5769	2521	2376
60°	3676	1277	1141
65°	1831	503	387
70°	1010	252	135
75°	727	179	71
80°	586	124	18
85°	637	106	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	6.1
10°-20°	142.3	17.6
20°-30°	206.5	25.5
30°-40°	203.4	25.1
40°-50°	127.5	15.8
50°-60°	61.5	7.6
60°-70°	14.9	1.8
70°-80°	3.0	0.4
80°-90°	0.7	0.1
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°	398.0	49.2
0°-40°	601.4	74.3
0°-60°	790.4	97.7
0°-90°	809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	528	528	528	528	528	
5°	467	483	528	549	552	43
15°	399	430	546	566	567	113
25°	366	384	489	496	492	169
35°	358	343	341	322	316	217
45°	242	243	129	124	120	185
55°	107	111	47	46	44	99
65°	25	25	7	6	5	29
75°	6	5	2	1	1	7
85°	2	1	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	502.4	499.2	493.2	500.5	500.5	496.4	504.5	499.6	503.5	509.6	504.2
5°	467.1	464.5	459.5	467.1	468.1	464.3	474.1	470.5	476.2	483.7	483.0
7.5°	439.2	435.9	431.3	439.2	440.7	438.2	447.5	445.9	453.4	463.1	464.8
10°	421.0	417.6	413.5	420.7	421.9	420.2	429.6	428.7	436.0	447.3	451.7
12.5°	408.1	405.2	400.8	408.4	409.6	407.3	416.2	415.7	423.4	435.2	440.7
15°	399.1	395.6	391.6	398.1	399.8	397.1	405.6	404.8	412.6	424.2	430.5
17.5°	390.6	387.4	383.3	389.4	391.0	388.3	396.6	395.2	401.9	413.0	419.4
20°	382.7	379.2	375.5	381.7	382.7	379.5	387.8	386.0	392.0	402.3	408.5
22.5°	374.5	370.9	367.0	373.1	374.1	370.9	378.5	376.5	382.0	391.3	397.0
25°	365.5	362.1	358.3	364.0	364.8	361.3	369.4	366.7	371.6	379.8	384.5
27.5°	356.5	353.3	349.0	354.8	355.2	351.9	359.2	355.6	359.6	367.1	371.2
30°	354.9	351.3	346.9	351.6	351.7	347.4	354.4	350.1	352.3	357.8	360.2
32.5°	359.8	356.2	351.6	355.5	355.1	350.3	357.0	351.7	352.4	355.3	354.8
35°	357.8	353.5	348.1	352.3	352.3	346.6	353.3	347.0	346.3	346.7	343.3
37.5°	335.8	332.4	327.3	331.3	330.9	326.6	331.7	326.6	324.2	323.3	317.0
40°	303.3	299.2	295.4	299.7	300.1	295.5	302.2	296.3	295.6	292.9	285.5
42.5°	270.4	269.0	265.2	268.8	270.8	266.9	272.4	269.7	270.1	269.4	262.4
45°	241.6	239.3	236.5	240.6	241.9	240.0	245.5	243.8	245.5	249.0	243.3
47.5°	210.7	208.3	205.2	209.7	211.9	208.3	213.0	212.5	215.0	220.9	220.4
50°	173.3	171.6	171.1	171.6	173.0	171.4	174.7	174.8	176.5	184.7	185.2
52.5°	137.2	136.8	134.8	136.6	136.6	134.0	137.3	135.8	137.5	143.0	146.6
55°	107.3	106.9	105.7	107.3	105.5	104.6	105.5	104.0	102.8	107.1	110.8
57.5°	83.6	82.2	80.7	81.4	81.2	79.2	80.3	78.5	77.5	79.0	82.3
60°	59.6	59.2	57.8	58.5	59.0	57.5	58.6	57.8	56.1	57.3	57.5
62.5°	39.6	39.9	39.0	39.2	38.7	38.5	39.2	39.6	39.2	38.6	38.7
65°	25.1	25.0	24.9	25.0	25.3	24.7	25.1	25.4	25.0	25.0	24.9
67.5°	16.7	16.2	15.8	16.1	16.4	16.0	16.4	16.2	16.4	16.2	15.8
70°	11.2	11.1	11.0	11.1	11.1	10.8	11.1	11.0	11.1	11.0	10.6
72.5°	8.2	8.2	8.1	8.2	8.2	7.9	8.1	7.8	7.9	7.8	7.5
75°	6.1	6.1	6.0	6.1	6.0	5.8	6.0	5.8	5.6	5.6	5.3
77.5°	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.2	4.0	3.9	3.9
80°	3.3	3.2	3.2	3.2	3.2	3.1	3.2	3.1	2.9	2.8	2.6
82.5°	2.4	2.5	2.4	2.4	2.4	2.2	2.4	2.2	2.2	2.1	1.8
85°	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.5	1.5	1.4
87.5°	1.0	1.0	1.0	1.1	1.0	1.0	1.0	0.8	0.8	0.7	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	511.4	512.1	510.6	513.0	522.1	514.8	517.8	518.8	525.7	527.0	526.1
5°	492.0	495.0	497.0	502.3	512.4	507.1	512.5	516.0	524.9	527.8	528.5
7.5°	476.7	483.1	487.8	496.4	508.4	504.3	512.5	518.2	529.1	532.8	534.6
10°	465.3	475.0	483.2	495.0	508.5	505.9	516.6	524.6	536.7	541.1	543.4
12.5°	456.7	468.5	479.5	494.5	509.1	507.8	520.7	529.9	542.7	547.1	549.7
15°	447.3	460.9	473.7	490.5	506.1	505.9	519.8	529.5	542.5	546.3	548.8
17.5°	436.0	450.6	464.6	482.8	498.4	498.6	512.7	522.3	535.0	538.1	539.8
20°	424.6	439.1	453.1	471.8	487.1	487.5	501.3	510.2	522.4	524.9	525.3
22.5°	412.6	426.0	440.0	458.7	473.4	473.7	487.3	495.6	506.0	507.3	508.4
25°	398.8	412.0	425.2	443.7	457.7	458.5	470.9	478.2	487.8	488.8	489.2
27.5°	384.5	395.3	408.0	423.8	438.0	437.4	449.1	457.4	466.0	465.5	465.3
30°	370.1	379.1	386.9	402.1	412.6	413.0	423.9	428.0	437.0	435.9	435.7
32.5°	359.9	362.3	364.4	372.1	382.0	378.5	386.0	391.0	397.3	396.9	397.0
35°	341.3	337.0	330.8	331.9	337.8	332.4	336.5	336.3	342.7	341.2	343.0
37.5°	309.5	297.3	283.4	275.5	276.6	269.8	268.4	271.8	274.0	269.7	271.2
40°	275.6	257.6	235.9	217.9	216.9	208.4	206.9	203.6	207.9	204.3	205.4
42.5°	250.6	226.8	198.3	176.4	171.6	164.5	160.4	159.8	161.1	158.6	157.9
45°	231.5	206.1	173.4	148.3	143.0	135.4	131.2	129.7	129.8	129.0	128.3
47.5°	209.0	183.4	150.4	124.7	118.7	111.5	107.3	106.4	106.9	105.8	105.0
50°	177.9	155.0	124.8	101.4	96.1	90.8	87.5	86.5	86.4	85.5	85.0
52.5°	144.4	125.4	99.3	79.7	75.0	69.8	67.5	66.2	66.4	65.5	64.7
55°	111.8	100.0	76.9	60.3	56.0	51.9	49.7	48.2	47.8	46.9	46.5
57.5°	83.2	75.3	57.6	43.5	41.0	37.1	34.9	33.0	32.8	32.4	32.2
60°	58.3	52.6	40.5	31.0	28.0	25.7	23.5	21.7	20.8	20.7	20.3
62.5°	37.8	34.3	26.7	20.7	18.5	16.8	14.6	13.3	12.8	12.2	12.4
65°	23.5	20.8	16.7	13.3	12.1	10.8	9.2	8.1	7.5	6.9	7.1
67.5°	14.6	13.1	10.6	8.6	7.8	6.8	5.6	4.7	4.3	3.9	3.6
70°	9.9	8.5	7.2	6.1	5.6	4.9	4.0	3.3	3.1	2.8	2.5
72.5°	6.9	6.2	5.3	4.6	4.2	3.6	3.1	2.6	2.4	2.1	1.8
75°	5.0	4.4	3.9	3.3	3.1	2.8	2.4	2.1	1.8	1.5	1.2
77.5°	3.6	3.2	2.8	2.5	2.4	1.9	1.7	1.5	1.4	1.1	0.8
80°	2.5	2.2	1.8	1.7	1.7	1.4	1.2	1.1	1.0	0.7	0.6
82.5°	1.7	1.5	1.4	1.2	1.1	1.0	1.0	0.7	0.6	0.4	0.3
85°	1.2	1.1	1.0	0.8	0.8	0.7	0.6	0.4	0.4	0.3	0.1
87.5°	0.7	0.7	0.6	0.4	0.4	0.3	0.3	0.1	0.1	0.1	0.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	533.2	533.6	536.0	534.2	538.8	542.1	540.4	544.2	542.9	542.7	547.0
5°	536.8	537.8	541.0	539.3	544.3	547.9	546.3	550.4	549.2	548.9	553.4
7.5°	543.8	544.7	547.5	546.1	551.4	554.6	552.5	557.1	555.4	555.3	559.6
10°	552.5	553.9	556.3	554.9	559.7	562.5	560.4	564.9	563.4	562.7	567.4
12.5°	559.1	560.0	562.4	561.3	566.0	568.1	566.3	570.6	568.6	568.1	572.2
15°	557.5	558.5	560.4	559.5	563.9	565.9	563.5	568.2	566.3	565.2	568.9
17.5°	547.8	548.4	549.7	548.8	553.5	554.7	552.1	556.8	555.0	553.1	556.7
20°	533.5	533.2	534.1	533.6	537.5	538.2	536.6	540.0	537.9	536.8	538.9
22.5°	515.7	515.5	516.0	514.9	518.8	519.2	516.7	520.9	518.8	516.7	520.2
25°	496.0	494.5	494.2	494.6	497.3	497.7	495.0	498.1	495.5	493.8	497.1
27.5°	471.7	469.8	469.3	469.8	472.4	470.5	468.2	470.5	467.8	466.3	468.4
30°	441.7	438.9	437.7	436.9	439.6	438.9	433.8	436.3	432.1	429.9	431.4
32.5°	401.3	399.8	396.4	394.5	397.1	391.9	388.7	388.7	387.0	383.3	384.1
35°	345.2	342.8	339.8	338.1	338.5	331.5	326.2	327.3	321.7	320.8	321.2
37.5°	274.2	270.4	269.3	265.8	266.6	260.4	253.1	253.3	250.4	247.3	246.3
40°	206.1	205.4	204.3	201.3	202.5	195.7	192.9	193.0	191.1	188.9	190.0
42.5°	159.3	157.1	156.4	155.4	155.7	154.6	150.9	151.4	149.7	149.1	148.6
45°	129.4	127.1	125.4	126.2	126.2	125.0	123.6	124.4	123.6	122.5	123.0
47.5°	106.6	104.4	103.6	103.5	104.4	103.6	102.2	102.5	102.3	101.9	101.6
50°	85.1	84.6	83.9	83.5	83.9	83.6	82.3	83.0	83.5	82.1	82.5
52.5°	64.8	64.8	64.7	63.7	64.6	63.7	63.6	63.9	63.5	62.9	62.8
55°	47.5	47.1	46.4	46.2	46.5	46.2	46.0	46.1	46.4	45.0	45.0
57.5°	32.5	32.2	31.8	31.8	32.4	31.7	31.2	31.8	31.2	30.7	30.7
60°	20.8	20.7	20.3	20.3	20.3	20.1	19.7	19.9	20.1	19.3	19.4
62.5°	12.5	12.1	11.9	11.8	11.9	11.8	11.8	11.7	11.5	11.5	11.1
65°	6.8	6.5	6.2	6.4	6.4	6.2	6.2	6.2	6.0	5.8	5.7
67.5°	3.5	3.2	3.2	3.1	3.1	3.1	3.1	2.9	2.9	2.9	2.8
70°	2.2	2.1	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7
72.5°	1.5	1.4	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.0
75°	1.1	1.0	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.3
80°	0.4	0.4	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
82.5°	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
87.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	545.4	544.3	545.0	550.2	547.9	547.2	541.4	546.6
5°	552.0	551.1	551.1	557.0	554.3	553.8	548.1	552.5
7.5°	558.1	557.2	557.4	563.4	561.3	560.4	554.7	559.2
10°	566.0	565.4	565.6	571.3	569.1	568.2	562.4	567.0
12.5°	570.7	569.9	569.9	576.0	573.5	572.2	566.7	571.1
15°	567.1	565.9	565.9	572.0	569.2	567.4	562.5	566.7
17.5°	554.7	553.5	553.5	558.8	556.7	554.1	549.1	552.9
20°	537.5	536.0	535.6	541.7	538.8	536.4	532.0	535.7
22.5°	518.1	517.4	516.1	522.3	519.6	517.1	512.4	515.3
25°	494.8	493.6	492.4	498.4	495.7	493.2	489.5	491.8
27.5°	465.7	465.9	465.2	469.9	467.3	465.9	461.3	465.2
30°	430.6	429.1	428.5	434.1	431.6	429.8	424.1	427.8
32.5°	384.8	382.6	379.6	385.9	381.6	380.1	375.2	380.6
35°	318.1	317.4	314.8	320.1	317.7	314.9	311.9	316.5
37.5°	245.9	246.5	246.2	247.6	246.2	244.4	241.1	239.4
40°	187.7	186.4	185.2	187.7	184.8	184.8	182.9	185.0
42.5°	147.2	146.6	148.0	148.6	146.9	146.6	146.4	146.2
45°	121.5	121.5	121.8	122.3	121.8	121.5	120.7	120.1
47.5°	100.1	100.7	100.1	101.9	101.0	100.7	99.0	99.7
50°	81.1	80.4	81.1	81.7	81.8	81.0	80.1	80.5
52.5°	62.9	61.8	61.5	62.3	61.8	61.8	61.2	61.1
55°	44.3	44.7	44.0	44.7	44.4	44.0	43.6	44.2
57.5°	30.0	30.1	29.9	30.3	29.6	29.7	29.6	29.4
60°	19.4	18.9	18.9	19.3	18.6	18.6	18.5	18.5
62.5°	11.1	11.0	11.0	10.8	10.7	10.7	10.7	10.4
65°	5.7	5.6	5.4	5.4	5.4	5.4	5.3	5.3
67.5°	2.8	2.6	2.6	2.8	2.6	2.6	2.6	2.6
70°	1.7	1.7	1.5	1.7	1.5	1.5	1.5	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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