

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: P245388

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245388
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 EC8B10830 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1117.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

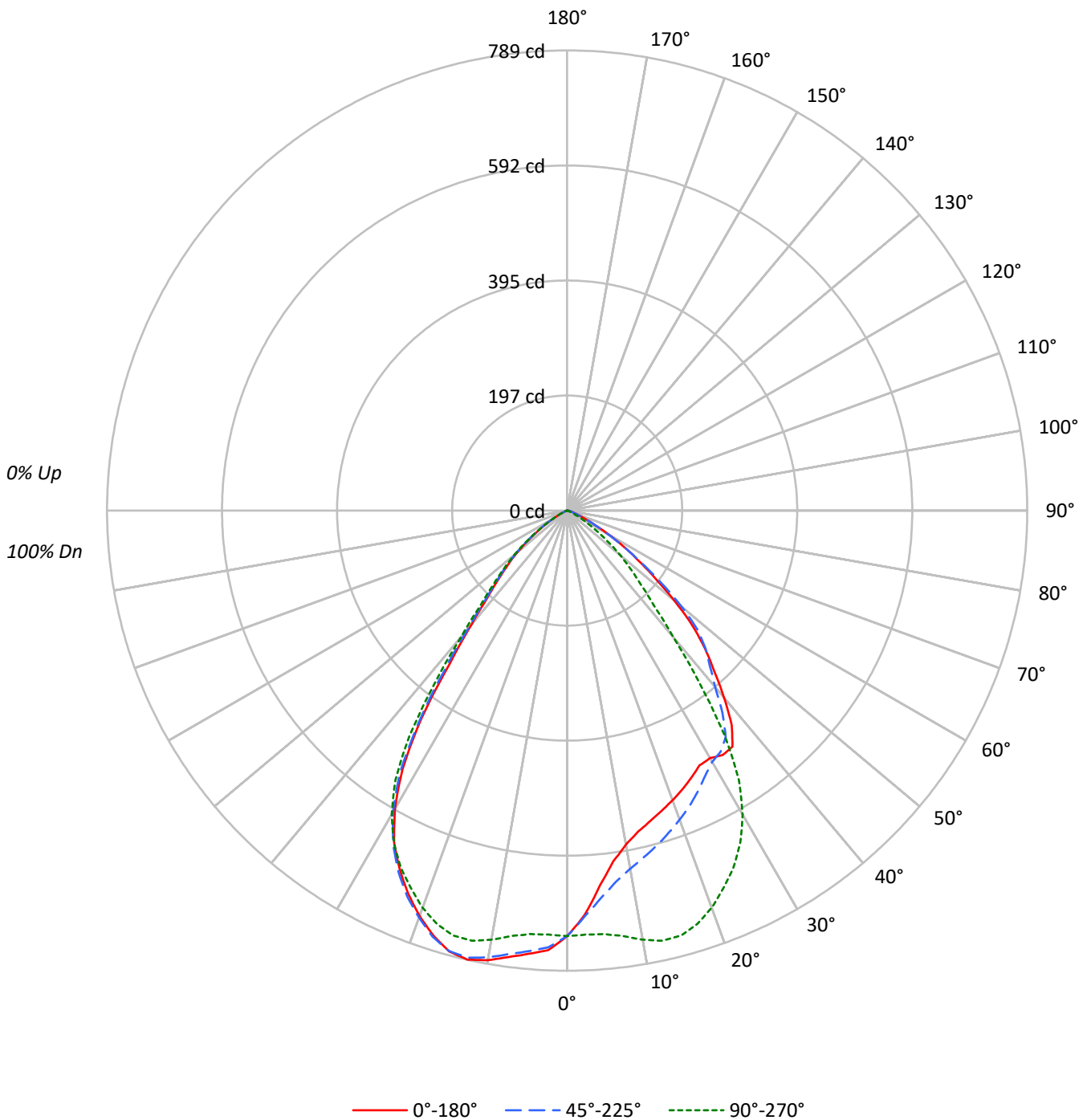
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22501	22501	22501
5°	19965	22559	23615
10°	18202	23396	24511
15°	17590	24080	24977
20°	17340	23781	24273
25°	17169	22963	23106
30°	17451	21428	21033
35°	18600	17734	16447
40°	16854	11352	10281
45°	14548	7767	7230
50°	11480	5666	5335
55°	7967	3484	3279
60°	5076	1764	1573
65°	2532	700	533
70°	1397	343	189
75°	1001	250	95
80°	817	178	36
85°	885	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	6.1
10°-20°	196.4	17.6
20°-30°	285.1	25.5
30°-40°	280.8	25.1
40°-50°	176.0	15.8
50°-60°	84.9	7.6
60°-70°	20.6	1.8
70°-80°	4.2	0.4
80°-90°	1.0	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°	549.6	49.2
0°-40°	830.4	74.3
0°-60°	1091.3	97.7
0°-90°	1117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	730	730	730	730	730	
5°	645	667	729	758	763	60
15°	551	594	754	782	782	156
25°	505	531	675	684	679	234
35°	494	474	471	444	437	299
45°	334	336	178	171	166	255
55°	148	153	65	64	61	136
65°	35	34	10	8	7	40
75°	8	7	2	1	1	9
85°	2	2	0	0	0	3
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°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	693.7	689.3	681.0	691.0	691.0	685.4	696.5	689.8	695.2	703.6	696.2
5°	645.0	641.3	634.4	645.0	646.3	641.1	654.6	649.6	657.4	667.8	666.8
7.5°	606.4	601.8	595.5	606.4	608.5	605.1	617.9	615.6	626.0	639.4	641.7
10°	581.3	576.5	571.0	580.9	582.5	580.2	593.2	591.9	602.0	617.6	623.7
12.5°	563.5	559.5	553.3	563.9	565.6	562.3	574.6	574.0	584.6	600.9	608.5
15°	551.0	546.2	540.7	549.7	552.0	548.3	560.0	558.9	569.6	585.7	594.4
17.5°	539.3	534.9	529.2	537.6	539.9	536.1	547.6	545.7	554.9	570.2	579.0
20°	528.4	523.6	518.4	527.1	528.4	524.0	535.5	533.0	541.2	555.4	564.1
22.5°	517.1	512.1	506.7	515.2	516.5	512.1	522.6	519.8	527.4	540.3	548.1
25°	504.6	500.0	494.7	502.5	503.7	498.9	510.0	506.4	513.1	524.4	530.9
27.5°	492.2	487.8	481.8	489.9	490.4	485.8	496.0	491.0	496.6	506.9	512.5
30°	490.1	485.1	478.9	485.5	485.6	479.7	489.3	483.3	486.4	494.1	497.3
32.5°	496.8	491.8	485.5	490.8	490.2	483.7	492.9	485.6	486.6	490.6	489.9
35°	494.1	488.1	480.7	486.4	486.4	478.6	487.8	479.1	478.2	478.7	473.9
37.5°	463.6	459.0	451.9	457.5	456.9	450.9	458.0	450.9	447.7	446.3	437.7
40°	418.7	413.2	407.8	413.7	414.3	408.0	417.2	409.1	408.2	404.4	394.2
42.5°	373.3	371.4	366.2	371.2	373.9	368.5	376.2	372.3	372.9	372.0	362.4
45°	333.6	330.3	326.5	332.3	334.0	331.3	339.0	336.7	339.0	343.8	335.9
47.5°	290.9	287.6	283.4	289.5	292.6	287.6	294.1	293.3	296.8	305.0	304.3
50°	239.3	237.0	236.2	237.0	238.9	236.6	241.2	241.4	243.7	255.0	255.8
52.5°	189.4	188.9	186.2	188.7	188.7	185.0	189.6	187.5	189.8	197.5	202.5
55°	148.2	147.6	145.9	148.2	145.7	144.4	145.7	143.6	141.9	147.8	153.0
57.5°	115.4	113.5	111.4	112.4	112.2	109.3	110.8	108.3	107.0	109.1	113.7
60°	82.3	81.7	79.8	80.7	81.5	79.4	80.9	79.8	77.5	79.2	79.4
62.5°	54.6	55.0	53.9	54.1	53.5	53.1	54.1	54.6	54.1	53.3	53.5
65°	34.7	34.5	34.3	34.5	34.9	34.1	34.7	35.1	34.5	34.5	34.3
67.5°	23.0	22.4	21.9	22.2	22.6	22.0	22.6	22.4	22.6	22.4	21.9
70°	15.5	15.3	15.1	15.3	15.3	15.0	15.3	15.1	15.3	15.1	14.6
72.5°	11.3	11.3	11.1	11.3	11.3	10.9	11.1	10.7	10.9	10.7	10.4
75°	8.4	8.4	8.2	8.4	8.2	8.1	8.2	8.1	7.7	7.7	7.3
77.5°	6.1	6.1	6.1	6.1	6.1	5.9	5.9	5.8	5.6	5.4	5.4
80°	4.6	4.4	4.4	4.4	4.4	4.2	4.4	4.2	4.0	3.8	3.6
82.5°	3.3	3.5	3.3	3.3	3.3	3.1	3.3	3.1	3.1	2.9	2.5
85°	2.5	2.5	2.5	2.5	2.5	2.3	2.3	2.3	2.1	2.1	1.9
87.5°	1.3	1.3	1.3	1.5	1.3	1.3	1.3	1.2	1.2	1.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	706.1	707.1	705.0	708.2	720.9	710.7	715.0	716.3	725.9	727.6	726.5
5°	679.3	683.5	686.2	693.5	707.5	700.2	707.7	712.5	724.7	728.8	729.7
7.5°	658.2	667.0	673.5	685.4	701.9	696.4	707.7	715.5	730.5	735.7	738.1
10°	642.5	655.9	667.2	683.5	702.1	698.5	713.2	724.3	741.0	747.2	750.2
12.5°	630.6	646.9	662.0	682.7	702.9	701.1	719.0	731.6	749.3	755.4	759.0
15°	617.6	636.3	654.0	677.2	698.8	698.5	717.6	731.1	749.1	754.3	757.7
17.5°	602.0	622.2	641.5	666.6	688.1	688.5	707.9	721.1	738.7	742.9	745.2
20°	586.3	606.2	625.6	651.5	672.6	673.2	692.1	704.4	721.3	724.7	725.3
22.5°	569.6	588.2	607.6	633.3	653.6	654.0	672.8	684.3	698.7	700.4	701.9
25°	550.6	568.9	587.1	612.6	631.9	633.1	650.1	660.3	673.5	674.9	675.5
27.5°	530.9	545.8	563.3	585.2	604.7	603.9	620.0	631.5	643.4	642.7	642.5
30°	511.0	523.4	534.2	555.2	569.6	570.2	585.3	590.9	603.4	601.8	601.6
32.5°	497.0	500.2	503.1	513.8	527.4	522.6	533.0	539.9	548.5	548.0	548.1
35°	471.3	465.3	456.7	458.2	466.5	459.0	464.6	464.4	473.2	471.1	473.6
37.5°	427.4	410.5	391.3	380.4	381.9	372.5	370.6	375.2	378.3	372.3	374.4
40°	380.6	355.7	325.7	300.8	299.5	287.8	285.7	281.1	287.0	282.0	283.6
42.5°	346.1	313.1	273.8	243.5	237.0	227.2	221.4	220.7	222.4	219.0	218.0
45°	319.6	284.5	239.5	204.8	197.5	186.9	181.2	179.1	179.3	178.1	177.2
47.5°	288.5	253.3	207.6	172.2	163.9	154.0	148.2	146.9	147.6	146.1	144.9
50°	245.6	214.0	172.4	140.0	132.7	125.4	120.8	119.4	119.3	118.1	117.3
52.5°	199.4	173.1	137.1	110.1	103.5	96.4	93.2	91.5	91.6	90.5	89.3
55°	154.3	138.0	106.2	83.2	77.3	71.7	68.6	66.5	66.0	64.8	64.2
57.5°	114.8	103.9	79.6	60.0	56.6	51.2	48.1	45.6	45.2	44.7	44.5
60°	80.5	72.7	56.0	42.8	38.7	35.5	32.4	29.9	28.8	28.6	28.0
62.5°	52.1	47.4	36.8	28.6	25.5	23.2	20.1	18.4	17.6	16.9	17.1
65°	32.4	28.8	23.0	18.4	16.7	15.0	12.7	11.1	10.4	9.6	9.8
67.5°	20.1	18.0	14.6	11.9	10.7	9.4	7.7	6.5	5.9	5.4	5.0
70°	13.6	11.7	10.0	8.4	7.7	6.7	5.6	4.6	4.2	3.8	3.5
72.5°	9.6	8.6	7.3	6.3	5.8	5.0	4.2	3.6	3.3	2.9	2.5
75°	6.9	6.1	5.4	4.6	4.2	3.8	3.3	2.9	2.5	2.1	1.7
77.5°	5.0	4.4	3.8	3.5	3.3	2.7	2.3	2.1	1.9	1.5	1.2
80°	3.5	3.1	2.5	2.3	2.3	1.9	1.7	1.5	1.3	1.0	0.8
82.5°	2.3	2.1	1.9	1.7	1.5	1.3	1.3	1.0	0.8	0.6	0.4
85°	1.7	1.5	1.3	1.2	1.2	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	736.2	736.8	740.1	737.6	743.9	748.5	746.2	751.4	749.7	749.3	755.2
5°	741.2	742.6	747.0	744.7	751.6	756.6	754.3	760.0	758.3	757.9	764.0
7.5°	750.8	752.1	756.0	754.1	761.3	765.8	762.9	769.2	766.9	766.7	772.7
10°	762.9	764.8	768.1	766.1	772.9	776.7	773.8	779.9	777.8	776.9	783.4
12.5°	771.9	773.2	776.5	775.0	781.5	784.4	781.9	787.8	785.1	784.4	790.1
15°	769.8	771.1	773.8	772.5	778.6	781.3	778.0	784.5	781.9	780.3	785.5
17.5°	756.4	757.1	759.0	757.7	764.2	765.9	762.3	768.8	766.3	763.6	768.6
20°	736.6	736.2	737.4	736.8	742.2	743.1	740.8	745.6	742.8	741.2	744.1
22.5°	712.1	711.7	712.5	710.9	716.3	716.9	713.4	719.2	716.3	713.4	718.2
25°	684.8	682.7	682.4	682.9	686.6	687.2	683.5	687.7	684.1	681.8	686.4
27.5°	651.3	648.6	648.0	648.6	652.3	649.6	646.5	649.6	645.9	643.8	646.7
30°	609.9	606.0	604.3	603.2	607.0	606.0	599.0	602.4	596.7	593.6	595.7
32.5°	554.1	552.0	547.4	544.7	548.3	541.1	536.6	536.6	534.3	529.2	530.3
35°	476.6	473.4	469.2	466.9	467.4	457.7	450.4	451.9	444.2	442.9	443.5
37.5°	378.7	373.3	371.8	367.0	368.1	359.5	349.5	349.7	345.7	341.5	340.1
40°	284.5	283.6	282.0	278.0	279.5	270.1	266.3	266.5	263.8	260.7	262.3
42.5°	219.9	216.8	215.9	214.5	214.9	213.4	208.4	209.0	206.7	205.9	205.1
45°	178.7	175.4	173.1	174.3	174.3	172.6	170.6	171.8	170.6	169.1	169.9
47.5°	147.2	144.2	143.0	142.8	144.2	143.0	141.1	141.5	141.3	140.7	140.3
50°	117.5	116.8	115.8	115.2	115.8	115.4	113.7	114.7	115.2	113.3	113.9
52.5°	89.5	89.5	89.3	88.0	89.2	88.0	87.8	88.2	87.6	86.9	86.7
55°	65.6	65.0	64.0	63.8	64.2	63.8	63.5	63.7	64.0	62.1	62.1
57.5°	44.9	44.5	43.9	43.9	44.7	43.7	43.1	43.9	43.1	42.4	42.4
60°	28.8	28.6	28.0	28.0	28.0	27.8	27.2	27.4	27.8	26.7	26.8
62.5°	17.3	16.7	16.5	16.3	16.5	16.3	16.3	16.1	15.9	15.9	15.3
65°	9.4	9.0	8.6	8.8	8.8	8.6	8.6	8.6	8.2	8.1	7.9
67.5°	4.8	4.4	4.4	4.2	4.2	4.2	4.2	4.0	4.0	4.0	3.8
70°	3.1	2.9	2.7	2.7	2.7	2.5	2.5	2.5	2.5	2.5	2.3
72.5°	2.1	1.9	1.7	1.7	1.7	1.5	1.5	1.5	1.5	1.3	1.3
75°	1.5	1.3	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	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°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7
2.5°	753.1	751.6	752.5	759.6	756.6	755.6	747.5	754.6
5°	762.1	761.0	761.0	769.0	765.4	764.6	756.7	762.9
7.5°	770.6	769.4	769.6	777.8	775.0	773.8	765.9	772.1
10°	781.5	780.7	780.9	788.8	785.7	784.5	776.5	782.8
12.5°	788.0	786.8	786.8	795.3	791.8	790.1	782.4	788.6
15°	783.0	781.3	781.3	789.7	785.9	783.4	776.7	782.4
17.5°	765.9	764.2	764.2	771.5	768.6	765.0	758.1	763.5
20°	742.2	740.1	739.5	747.9	743.9	740.6	734.5	739.7
22.5°	715.3	714.4	712.6	721.1	717.4	714.0	707.5	711.5
25°	683.1	681.6	679.9	688.1	684.5	681.0	675.8	679.1
27.5°	643.1	643.2	642.3	648.8	645.2	643.2	636.9	642.3
30°	594.5	592.4	591.7	599.3	595.9	593.4	585.5	590.7
32.5°	531.3	528.2	524.2	532.8	526.9	524.8	518.0	525.5
35°	439.2	438.3	434.6	441.9	438.7	434.8	430.6	436.9
37.5°	339.5	340.3	339.9	341.8	339.9	337.4	332.8	330.5
40°	259.2	257.3	255.8	259.2	255.2	255.2	252.5	255.4
42.5°	203.2	202.5	204.4	205.1	202.8	202.5	202.1	201.9
45°	167.8	167.8	168.1	168.9	168.1	167.8	166.6	165.8
47.5°	138.2	139.0	138.2	140.7	139.4	139.0	136.7	137.7
50°	112.0	111.0	112.0	112.7	112.9	111.8	110.6	111.2
52.5°	86.9	85.3	84.9	86.1	85.3	85.3	84.6	84.4
55°	61.2	61.7	60.8	61.7	61.4	60.8	60.2	61.0
57.5°	41.4	41.6	41.2	41.8	40.8	41.0	40.8	40.6
60°	26.8	26.1	26.1	26.7	25.7	25.7	25.5	25.5
62.5°	15.3	15.1	15.1	15.0	14.8	14.8	14.8	14.4
65°	7.9	7.7	7.5	7.5	7.5	7.5	7.3	7.3
67.5°	3.8	3.6	3.6	3.8	3.6	3.6	3.6	3.6
70°	2.3	2.3	2.1	2.3	2.1	2.1	2.1	2.1
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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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