Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: McGRAW-EDISON

Report Number: P956420

Luminaire Tested: **GALN-SB9A-827-U-T4W-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P956420
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9A-827-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27367 lumens
Efficiency:	N/A
Efficacy:	107.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G5
Input Watts (W):	255.5
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:	24 FT

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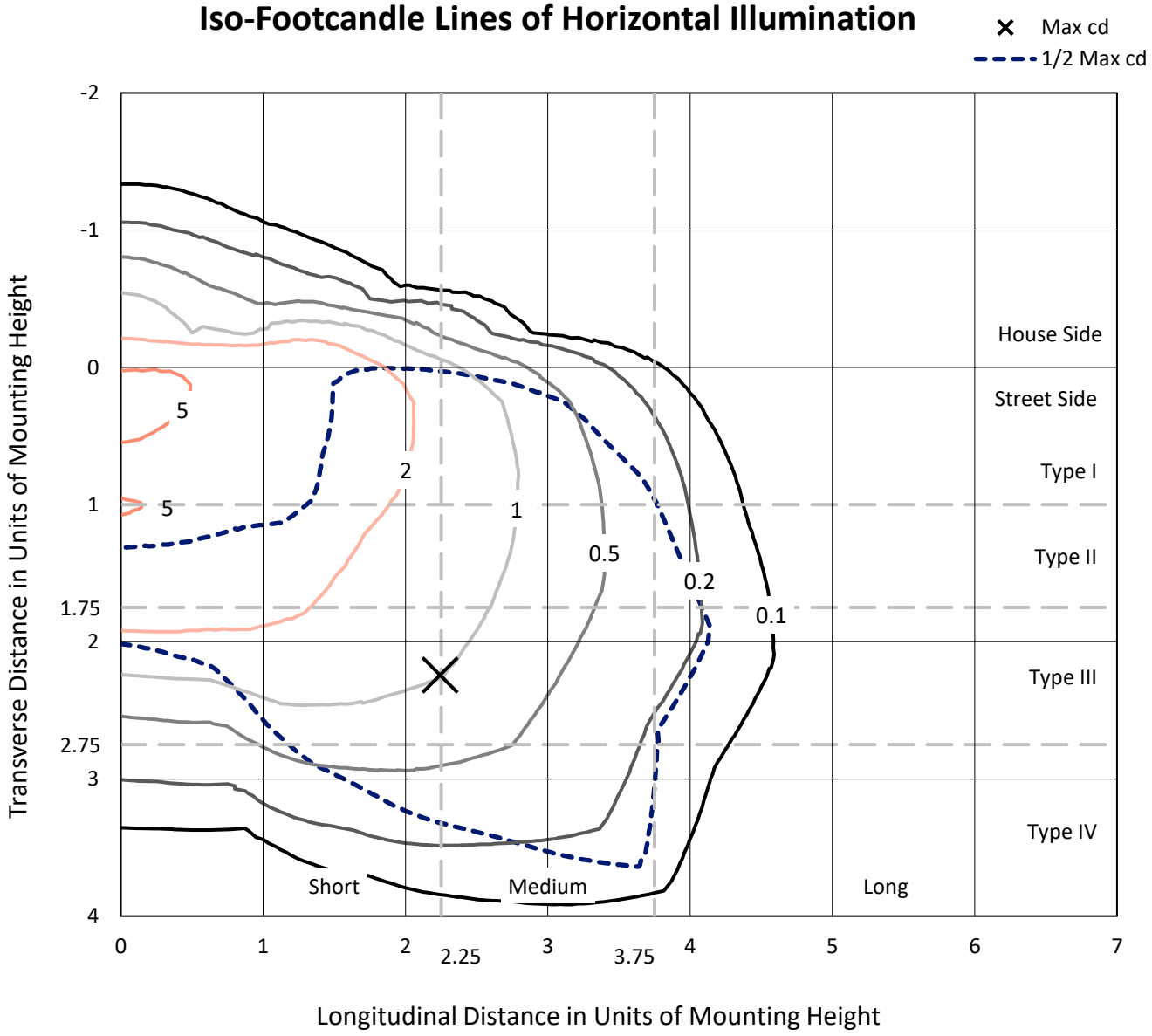
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - N/A

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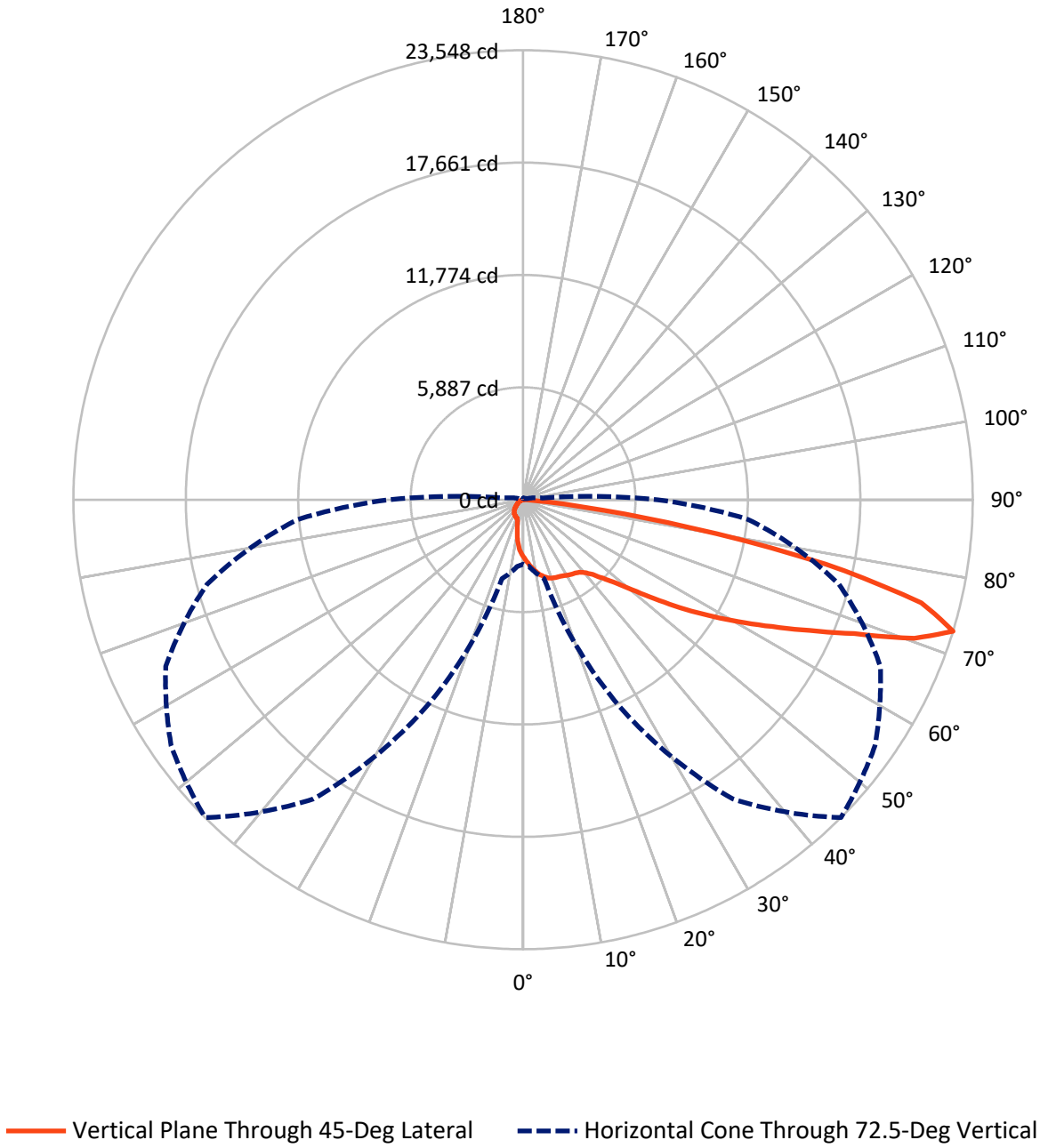
Luminous Intensity Polar Plot



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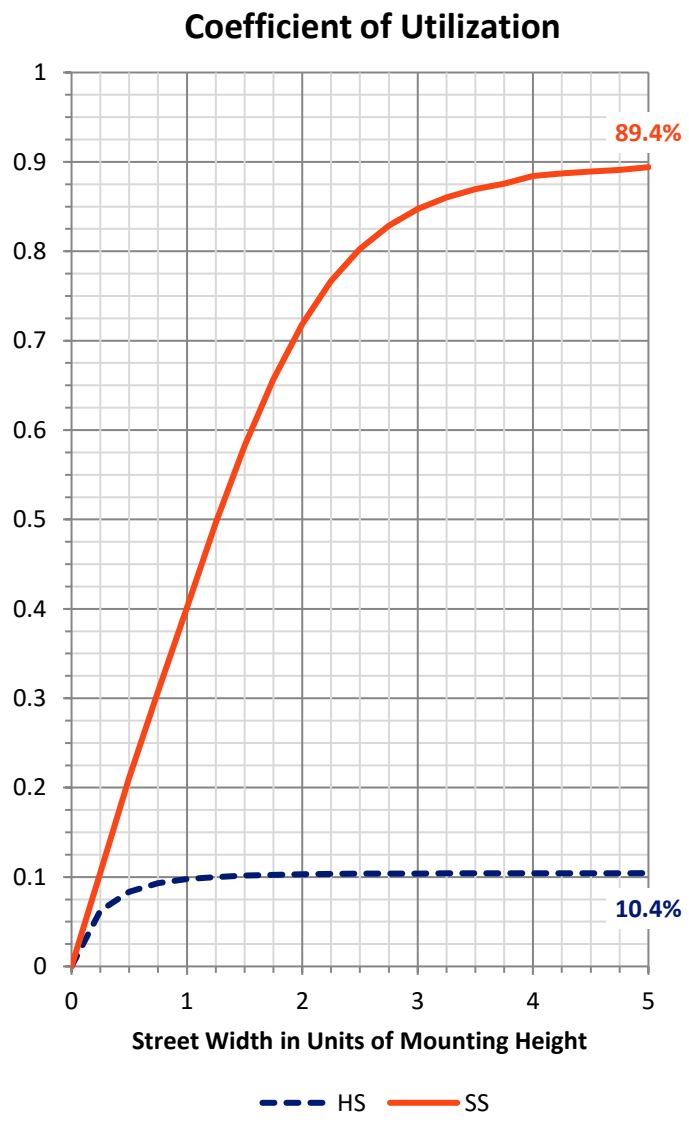
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2875.5	0.0	2875.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24491.5	0.0	24491.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	27367.0	0.0	27367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.5	1.0
10°-20°	825.6	3.0
20°-30°	1355.7	5.0
30°-40°	1922.7	7.0
40°-50°	3178.1	11.6
50°-60°	5709.1	20.9
60°-70°	7927.4	29.0
70°-80°	5750.3	21.0
80°-90°	415.7	1.5
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°-90°	27367.0	100.0
0°-180°	27367.0	100.0



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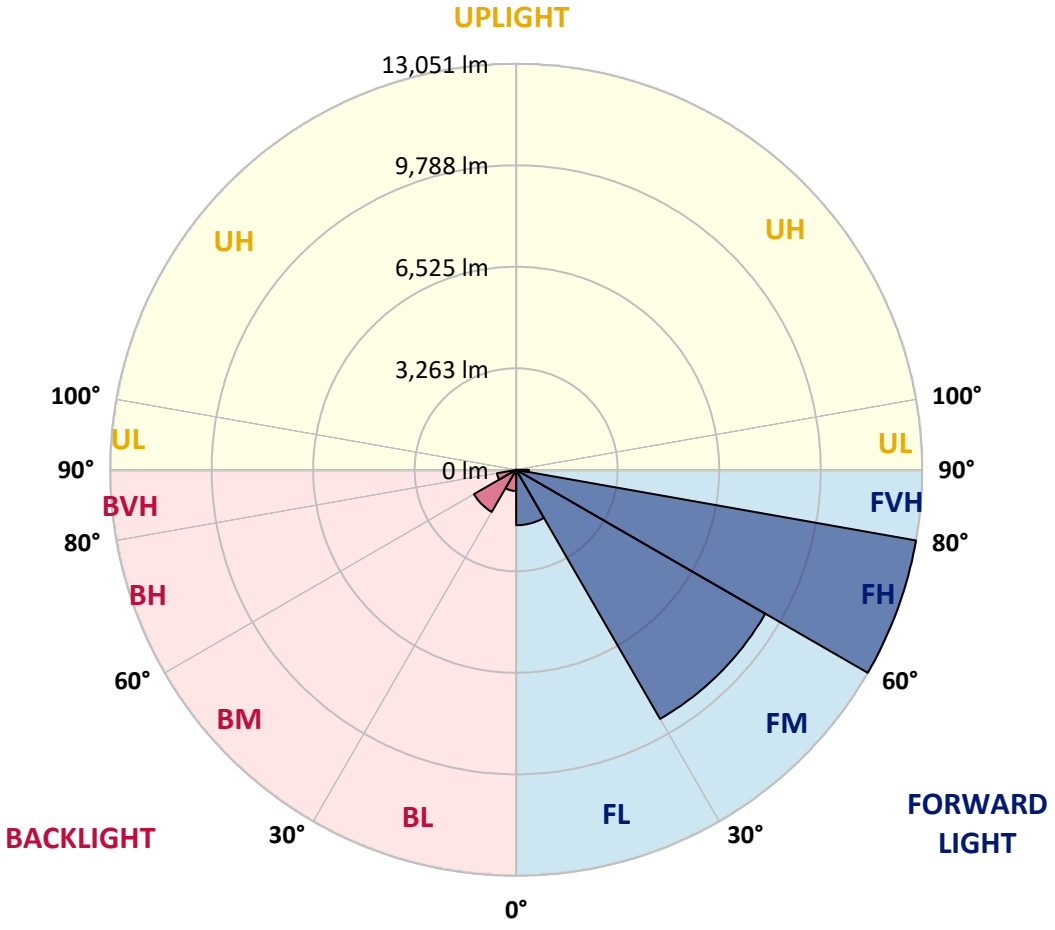
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1782.7	6.5			
FM	(30°-60°)	9246.0	33.8			
FH	(60°-80°)	13050.6	47.7			G5
FVH	(80°-90°)	412.2	1.5			G3/500
BL	(0°-30°)	681.1	2.5	B2/1000		
BM	(30°-60°)	1563.9	5.7	B2/2500		
BH	(60°-80°)	627.1	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2998.1	2998.1	2998.1	2998.1	2998.1	*2998.1*	2998.1	2998.1	2998.1	2998.1
2.5°	3274.6	3280.2	3276.4	3254.0	3216.7	*3196.1*	3184.9	3147.6	3123.3	3080.3
5°	3575.3	3597.7	3584.7	3539.8	3468.8	*3418.4*	3403.5	3326.9	3257.8	3177.4
7.5°	3894.7	3906.0	3881.7	3823.8	3728.5	*3642.6*	3629.5	3523.0	3412.8	3289.5
10°	4171.2	4184.3	4146.9	4062.9	3954.5	*3848.0*	3829.4	3711.7	3580.9	3429.6
12.5°	4402.8	4415.9	4367.3	4266.5	4146.9	*4036.7*	4018.0	3894.7	3750.9	3582.8
15°	4578.4	4602.7	4537.3	4429.0	4300.1	*4189.9*	4180.5	4059.1	3919.0	3732.2
17.5°	4681.2	4705.4	4643.8	4513.0	4402.8	*4309.4*	4298.2	4197.4	4066.6	3887.3
20°	4698.0	4720.4	4655.0	4541.1	4449.5	*4374.8*	4369.2	4296.4	4201.1	4029.2
22.5°	4647.5	4675.6	4615.8	4524.3	4460.7	*4421.5*	4414.0	4372.9	4318.8	4173.1
25°	4595.2	4617.7	4572.8	4492.5	4458.9	*4455.1*	4460.7	4453.3	4442.1	4318.8
27.5°	4591.5	4615.8	4565.4	4488.8	4470.1	*4509.3*	4514.9	4550.4	4559.7	4451.4
30°	4623.3	4640.1	4591.5	4511.2	4501.8	*4591.5*	4593.4	4656.9	4671.8	4563.5
32.5°	4692.4	4711.1	4662.5	4544.8	4531.7	*4656.9*	4662.5	4746.5	4770.8	4683.0
35°	4854.9	4877.3	4821.3	4638.2	4591.5	*4718.5*	4735.3	4834.3	4882.9	4810.1
37.5°	5260.2	5194.9	5118.3	4826.9	4727.9	*4815.7*	4843.7	4959.5	5045.4	4961.4
40°	6267.1	6061.6	5822.5	5148.2	4967.0	*5023.0*	5045.4	5161.2	5278.9	5196.7
42.5°	7778.3	7535.4	7150.6	5887.9	5327.5	*5355.5*	5372.3	5473.2	5639.4	5574.1
45°	9125.1	9037.3	8645.0	7150.6	6001.8	*5863.6*	5884.1	5936.5	6181.2	6156.9
47.5°	10160.0	10109.5	9806.9	8600.2	7141.3	*6485.6*	6543.5	6567.8	6920.9	7006.8
50°	10955.7	10937.0	10666.2	9889.1	8630.1	*7402.8*	7423.4	7371.1	7899.7	8112.7
52.5°	11706.7	11770.2	11570.3	11086.5	10219.7	*8603.9*	8600.2	8353.6	9067.2	9388.5
55°	12384.7	12407.1	12427.7	12308.1	11818.7	*9971.3*	9935.8	9532.3	10421.5	10754.0
57.5°	13021.7	13031.1	13214.1	13458.8	13483.1	*11439.5*	11374.1	10890.3	11900.9	12138.2
60°	13449.5	13492.4	13879.1	14559.1	14856.1	*12954.5*	12919.0	12425.8	13406.5	13516.7
62.5°	12833.0	13094.6	14069.6	15418.3	16152.5	*14633.8*	14617.0	14153.7	14990.6	14900.9
65°	10387.9	10830.6	12545.4	15999.3	17424.5	*16509.2*	16533.5	16040.4	16617.6	16326.2
67.5°	7266.5	7733.5	9762.1	16046.0	18846.1	*18711.6*	18851.7	18078.3	18345.5	17691.7
70°	5024.9	5265.8	6586.5	15041.0	19953.8	*21745.2*	21741.5	20581.4	20064.0	18313.7
72.5°	*3379.2*	*3504.3*	*4277.7*	*11932.7*	*19139.4*	*23547.8*	*23439.5*	*22494.3*	*20643.1*	*17127.5*
75°	1425.3	1516.8	1980.1	6706.1	15141.9	*21543.5*	21250.2	19879.1	18341.7	13486.8
77.5°	452.1	491.3	780.8	2400.4	8340.5	*16193.5*	15883.5	12414.6	12293.2	6765.8
80°	214.8	250.3	439.0	963.9	3282.0	*8807.5*	8764.6	5632.0	5288.3	1826.9
82.5°	93.4	110.2	242.8	515.6	1468.2	*3141.9*	3205.5	1916.6	1585.9	693.0
85°	29.9	39.2	112.1	237.2	620.2	*780.8*	771.5	455.8	638.9	377.3
87.5°	0.0	0.0	37.4	54.2	63.5	*44.8*	50.4	39.2	177.5	104.6
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2998.1	0°	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1
3035.5	2.5°	3013.1	2983.2	2930.9	2882.3	2839.3	2796.4	2770.2	2732.9	2729.1	2729.1
3084.0	5°	3033.6	2985.0	2891.6	2792.6	2678.7	2570.3	2462.0	2357.4	2323.8	2299.5
3162.5	7.5°	3093.4	3016.8	2869.2	2680.6	2463.9	2226.6	2060.4	1881.1	1811.9	1774.6
3267.1	10°	3179.3	3074.7	2850.5	2519.9	2168.7	1845.6	1608.3	1414.1	1339.3	1307.6
3381.0	12.5°	3274.6	3145.7	2816.9	2320.0	1845.6	1458.9	1227.3	1137.6	1126.4	1126.4
3517.4	15°	3388.5	3231.6	2759.0	2084.7	1507.5	1154.4	1072.2	1076.0	1087.2	1094.6
3650.0	17.5°	3506.2	3323.1	2667.5	1821.3	1208.6	1038.6	1040.5	1046.1	1055.4	1062.9
3793.9	20°	3633.2	3414.7	2546.1	1541.1	1036.7	1005.0	1010.6	1016.2	1023.7	1027.4
3928.4	22.5°	3769.6	3500.6	2402.2	1266.5	978.8	977.0	978.8	984.4	993.8	993.8
4085.3	25°	3915.3	3595.9	2237.8	1066.6	948.9	948.9	952.7	956.4	963.9	963.9
4236.6	27.5°	4064.7	3683.7	2064.1	962.0	922.8	920.9	920.9	926.5	930.3	932.1
4386.0	30°	4229.1	3786.4	1890.4	939.6	902.2	892.9	887.3	891.0	894.8	896.6
4542.9	32.5°	4397.2	3885.4	1735.4	948.9	881.7	864.9	846.2	842.5	842.5	849.9
4705.4	35°	4584.0	3993.7	1615.8	980.7	870.5	823.8	793.9	777.1	778.9	790.2
4899.7	37.5°	4808.2	4124.5	1528.0	1008.7	863.0	777.1	728.5	708.0	694.9	708.0
5166.8	40°	5101.5	4316.9	1464.5	1031.1	853.7	722.9	657.5	623.9	599.6	607.1
5581.5	42.5°	5533.0	4619.5	1440.2	1033.0	833.1	659.4	584.7	539.8	504.4	506.2
6205.4	45°	6138.2	5097.7	1565.4	1008.7	788.3	590.3	508.1	448.3	425.9	420.3
7137.6	47.5°	6967.6	5794.5	1854.9	958.3	722.9	523.0	433.4	382.9	366.1	356.8
8361.1	50°	8079.0	6689.2	2176.2	902.2	657.5	459.5	371.7	340.0	328.8	319.4
9812.5	52.5°	9367.9	7597.1	2439.6	846.2	592.2	403.5	332.5	313.8	304.5	297.0
11213.5	55°	10550.4	8222.9	2424.6	786.4	528.6	358.7	304.5	293.3	282.1	274.6
12420.2	57.5°	11286.4	8310.7	1998.7	721.0	455.8	323.2	278.3	270.9	257.8	248.4
13464.4	60°	11624.5	7810.0	1401.0	635.1	382.9	289.5	250.3	246.6	229.8	216.7
14452.6	62.5°	11686.1	6879.8	934.0	528.6	319.4	257.8	222.3	216.7	194.3	171.9
15255.8	65°	11435.8	5549.8	646.3	412.8	272.7	224.2	190.5	179.3	155.0	132.6
15446.4	67.5°	10643.8	3896.6	450.2	297.0	231.6	177.5	151.3	147.6	128.9	110.2
14475.0	70°	9192.3	2221.0	300.7	222.3	183.1	121.4	119.6	123.3	104.6	89.7
11826.2	72.5°	*7047.9*	*1016.2*	*186.8*	*162.5*	*125.2*	*82.2*	*95.3*	*97.1*	*80.3*	*67.2*
7378.5	75°	4148.8	435.2	117.7	104.6	63.5	54.2	69.1	71.0	54.2	43.0
2697.4	77.5°	1412.2	164.4	74.7	61.6	31.8	29.9	44.8	44.8	29.9	16.8
541.7	80°	321.3	61.6	37.4	24.3	14.9	13.1	14.9	13.1	7.5	1.9
166.3	82.5°	91.5	24.3	14.9	9.3	5.6	5.6	1.9	0.0	0.0	0.0
57.9	85°	26.2	11.2	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
20.5	87.5°	11.2	1.9	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

(END O

180°
2998.1
2738.5
2310.7
1780.2
1307.6
1126.4
1094.6
1062.9
1029.3
997.5
965.7
934.0
900.4
855.5
795.8
704.2
603.4
498.8
412.8
351.2
317.6
295.1
270.9
246.6
213.0
160.6
125.2
104.6
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