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: P941139

Luminaire Tested: **GALN-SB4C-740-U-T4FT**

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:	P941139
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB4C-740-U-T4FT
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	31385 lumens
Efficiency:	N/A
Efficacy:	156.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G4
Input Watts (W):	200.7
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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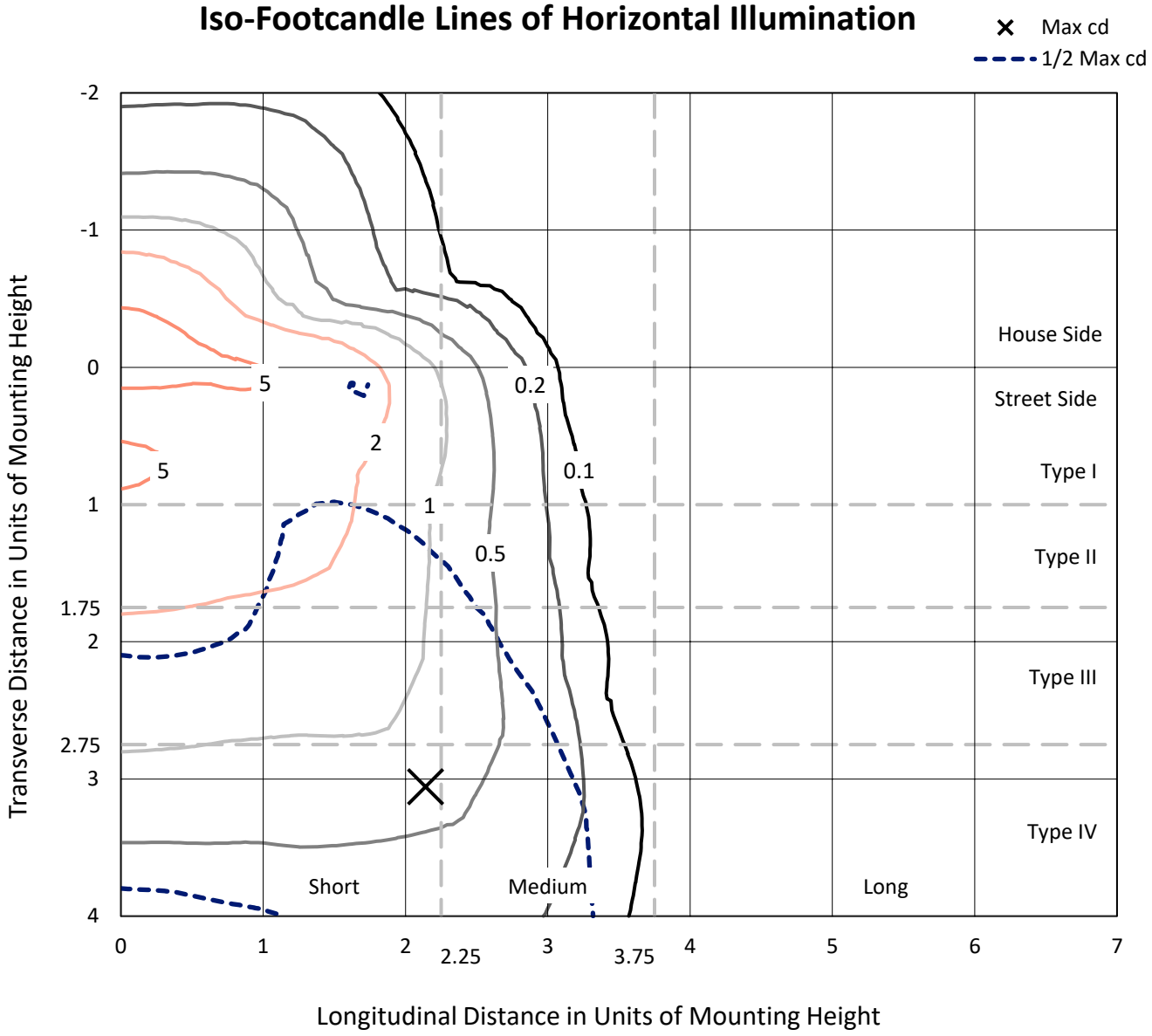
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - N/A

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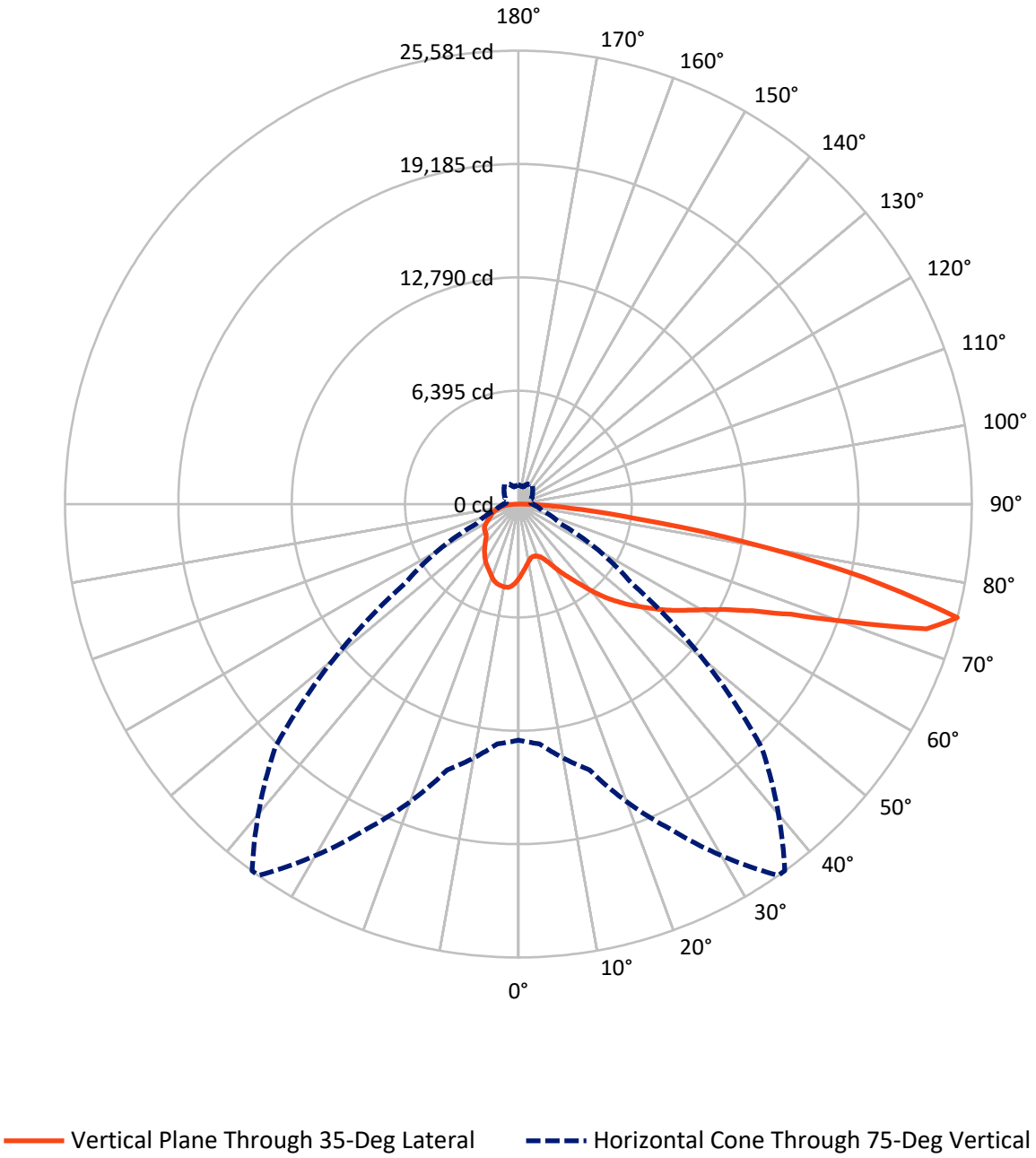
Luminous Intensity Polar Plot



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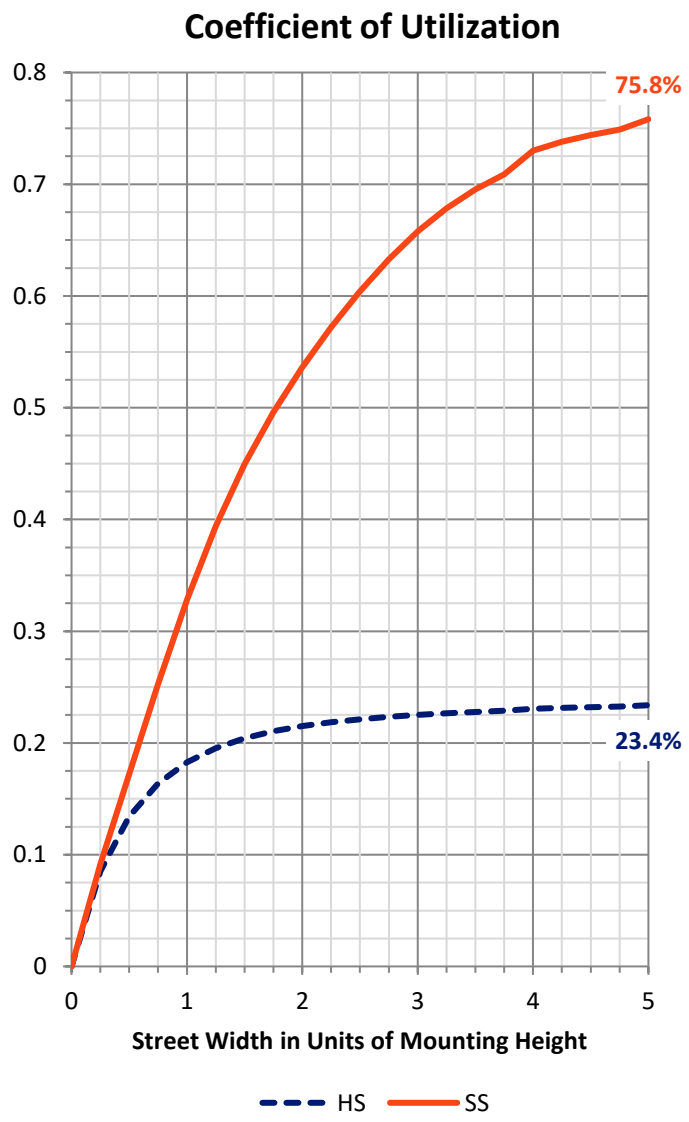
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7468.8	0.0	7468.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	23916.1	0.0	23916.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	31385.0	0.0	31385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.0	1.3
10°-20°	1142.2	3.6
20°-30°	1918.0	6.1
30°-40°	2980.8	9.5
40°-50°	4424.4	14.1
50°-60°	6108.1	19.5
60°-70°	7410.5	23.6
70°-80°	6124.2	19.5
80°-90°	880.8	2.8
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°	31385.0	100.0
0°-180°	31385.0	100.0



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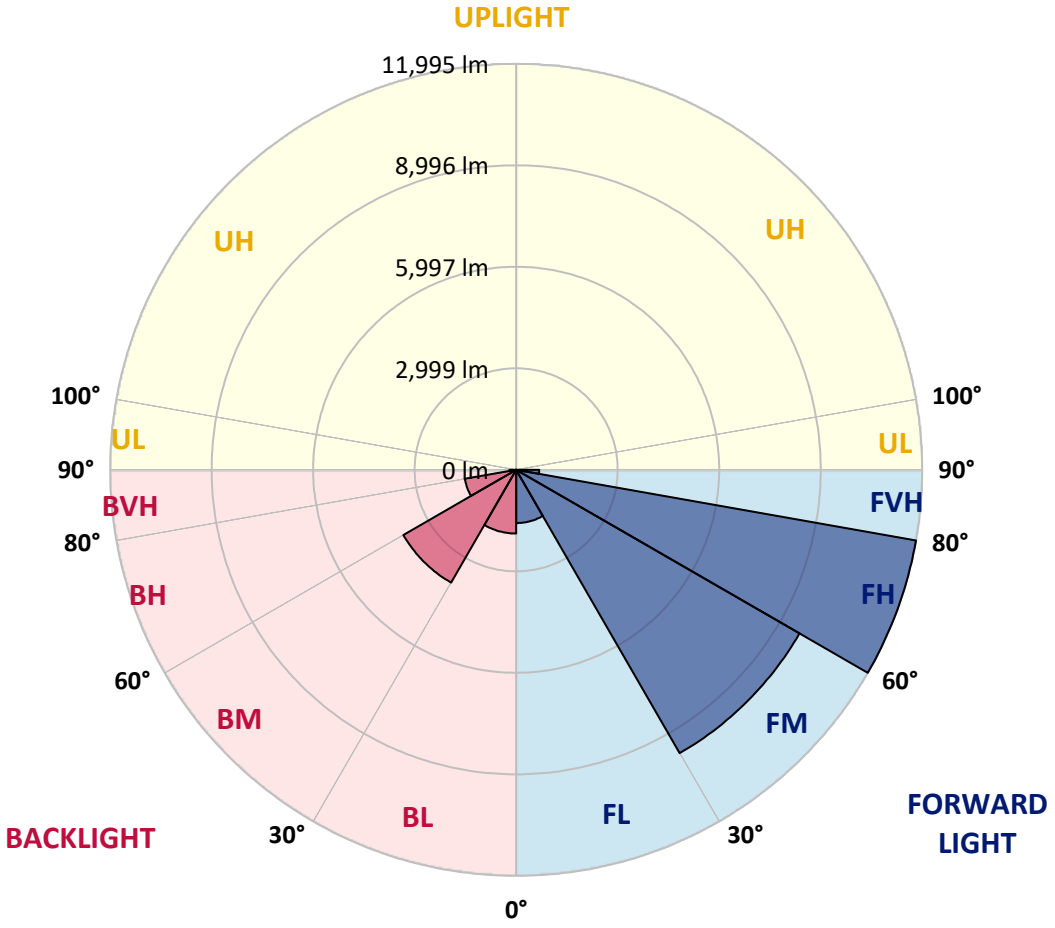
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1573.9	5.0			
FM	(30°-60°)	9664.9	30.8			
FH	(60°-80°)	11994.9	38.2			G4/12000
FVH	(80°-90°)	682.5	2.2			G4/750
BL	(0°-30°)	1882.2	6.0	B3/2500		
BM	(30°-60°)	3848.4	12.3	B3/5000		
BH	(60°-80°)	1539.9	4.9	B3/2500		G3/2500
BVH	(80°-90°)	198.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4182.3	4182.3	4182.3	4182.3	*4182.3*	4182.3	4182.3	4182.3	4182.3	4182.3
2.5°	3856.5	3880.3	3890.4	3885.3	*3910.8*	3907.4	3943.0	3987.1	4048.2	4107.6
5°	3559.6	3585.0	3607.1	3627.5	*3676.7*	3691.9	3747.9	3832.8	3944.7	4058.4
7.5°	3283.0	3305.1	3339.0	3376.4	*3459.5*	3474.8	3568.1	3700.4	3856.5	4022.8
10°	3057.4	3079.4	3115.1	3157.5	*3261.0*	3279.6	3398.4	3574.9	3778.5	3988.8
12.5°	2960.7	2967.5	2987.8	3030.2	*3120.2*	3132.0	3262.7	3464.6	3702.1	3963.4
15°	2955.6	2969.2	2970.8	2992.9	*3067.6*	3072.6	3193.1	3393.3	3654.6	3958.3
17.5°	3006.5	3016.7	3001.4	3015.0	*3077.7*	3086.2	3181.2	3359.4	3639.3	3980.4
20°	3142.2	3150.7	3104.9	3086.2	*3132.0*	3138.8	3232.1	3381.4	3654.6	4026.2
22.5°	3430.6	3435.7	3323.8	3247.4	*3250.8*	3254.2	3335.6	3471.4	3714.0	4109.3
25°	3880.3	3876.9	3698.7	3551.1	*3466.3*	3447.6	3501.9	3617.3	3814.1	4219.6
27.5°	4406.2	4380.8	4202.6	3982.1	*3797.1*	3770.0	3758.1	3807.3	3956.6	4365.5
30°	5000.1	4976.3	4784.6	4496.1	*4239.9*	4195.8	4083.9	4058.4	4168.7	4564.0
32.5°	5651.6	5636.3	5407.3	5057.7	*4715.0*	4664.1	4475.8	4407.9	4494.4	4864.3
35°	6197.9	6184.3	5994.3	5634.6	*5215.5*	5152.8	4961.0	4884.7	4928.8	5249.5
37.5°	6691.6	6684.8	6522.0	6238.6	*5806.0*	5729.6	5514.1	5488.7	5480.2	5756.8
40°	7149.7	7132.8	6963.1	6813.8	*6493.1*	6423.5	6233.5	6211.5	6147.0	6381.1
42.5°	7657.0	7612.9	7366.9	7297.3	*7210.8*	7153.1	7039.4	7042.8	6900.3	7085.2
45°	8071.0	8045.6	7792.8	7752.0	*7845.3*	7821.6	7920.0	7945.5	7668.9	7823.3
47.5°	8515.5	8491.8	8278.0	8249.2	*8502.0*	8508.7	8856.6	8865.0	8418.8	8590.2
50°	9063.6	9029.6	8817.5	8853.2	*9136.5*	9162.0	9798.2	9740.5	9109.4	9368.9
52.5°	9424.9	9445.3	9399.5	9457.2	*9844.0*	9867.8	10724.6	10577.0	9793.1	10137.5
55°	9691.3	9732.0	9874.6	10006.9	*10590.5*	10614.3	11598.4	11372.7	10359.8	10850.1
57.5°	10034.0	9976.4	10242.7	10500.6	*11299.7*	11362.5	12448.4	12139.6	10862.0	11464.3
60°	10526.1	10485.4	10692.3	11074.1	*12093.8*	12193.9	13347.6	12830.1	11230.2	11951.3
62.5°	11523.7	11421.9	11454.1	11791.8	*13094.8*	13227.2	14362.2	13432.4	11413.4	12141.3
65°	13015.1	12840.3	12677.4	12911.6	*14504.7*	14635.4	15507.5	13905.8	11345.6	11773.1
67.5°	14893.3	14720.2	14520.0	14740.6	*16581.4*	16684.9	16920.8	14172.2	10811.1	10354.7
70°	16442.3	16377.8	16617.1	17524.8	*19898.4*	19901.8	18732.8	13951.6	9346.9	7341.4
72.5°	16237.0	16198.0	17458.6	20264.9	*24079.0*	23989.1	20448.1	12282.1	6296.3	3311.9
75°	*13320.5*	*13573.3*	*15526.1*	*20215.7*	*25580.5*	*25568.6*	*19397.9*	*7808.0*	*2604.4*	*1372.6*
77.5°	7142.9	7543.3	10079.8	14925.5	*19969.7*	20270.0	13637.7	2731.6	1118.1	878.9
80°	2329.5	2679.0	4017.7	7599.3	*12976.0*	12920.1	5845.0	1072.3	765.2	622.7
82.5°	989.2	1029.9	1795.1	3588.4	*6659.4*	6555.9	1861.2	615.9	537.8	425.9
85°	386.8	432.6	792.3	1659.3	*2884.3*	2821.5	671.9	305.4	344.4	278.3
87.5°	127.2	154.4	283.3	568.4	*897.5*	865.3	164.6	105.2	149.3	127.2
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°
4182.3	0°	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3
4194.1	2.5°	4217.9	4245.0	4277.3	4324.8	4365.5	4399.4	4435.1	4457.1	4465.6	4491.1
4200.9	5°	4248.4	4307.8	4387.6	4465.6	4542.0	4587.8	4628.5	4648.8	4667.5	4681.1
4219.6	7.5°	4299.3	4375.7	4501.2	4603.0	4667.5	4704.8	4732.0	4725.2	4732.0	4735.4
4239.9	10°	4343.4	4450.3	4599.6	4696.4	4745.6	4747.3	4740.5	4716.7	4704.8	4706.5
4270.5	12.5°	4396.0	4514.8	4676.0	4757.4	4771.0	4733.7	4704.8	4664.1	4648.8	4642.1
4316.3	15°	4467.3	4603.0	4759.1	4789.7	4755.7	4708.2	4659.0	4592.9	4558.9	4531.8
4394.3	17.5°	4553.8	4703.1	4823.6	4801.5	4728.6	4650.5	4570.8	4470.7	4401.1	4372.3
4501.2	20°	4674.3	4808.3	4872.8	4776.1	4665.8	4547.0	4411.3	4289.2	4224.7	4195.8
4637.0	22.5°	4820.2	4949.2	4920.3	4732.0	4575.9	4385.9	4216.2	4126.3	4094.0	4073.7
4811.7	25°	4995.0	5105.2	4954.2	4667.5	4428.3	4172.1	4041.4	4012.6	3997.3	3982.1
5025.5	27.5°	5222.3	5281.7	4979.7	4572.5	4197.5	3944.7	3897.2	3902.3	3897.2	3871.8
5322.4	30°	5522.6	5510.7	5003.4	4418.1	3932.9	3739.4	3742.8	3764.9	3768.3	3751.3
5736.4	32.5°	5917.9	5797.5	5015.3	4217.9	3680.1	3559.6	3563.0	3586.7	3603.7	3574.9
6277.6	35°	6396.4	6131.7	4996.7	3966.8	3484.9	3388.2	3362.8	3369.6	3374.7	3347.5
6934.2	37.5°	6954.6	6506.7	4913.5	3688.5	3323.8	3220.3	3166.0	3120.2	3093.0	3067.6
7677.4	40°	7567.1	6915.6	4760.8	3417.1	3143.9	3042.1	2960.7	2874.1	2782.5	2748.6
8464.6	42.5°	8208.4	7336.4	4575.9	3157.5	2936.9	2853.8	2767.3	2641.7	2504.3	2434.7
9282.4	45°	8873.5	7767.3	4394.3	2901.3	2724.8	2689.2	2589.1	2438.1	2288.8	2200.6
10101.9	47.5°	9525.0	8174.5	4128.0	2643.4	2526.3	2565.3	2487.3	2348.2	2181.9	2042.8
10914.6	50°	10147.7	8556.2	3691.9	2382.1	2365.1	2528.0	2453.4	2253.2	2063.1	1885.0
11712.0	52.5°	10765.3	8865.0	3133.7	2144.6	2278.6	2517.8	2409.3	2188.7	1956.2	1769.6
12462.0	55°	11289.6	9024.5	2595.9	1941.0	2153.1	2431.3	2356.7	2112.3	1805.2	1606.7
12976.0	57.5°	11588.2	8895.6	2148.0	1740.8	1980.0	2288.8	2266.7	1949.5	1625.4	1472.7
13076.1	60°	11459.2	8373.0	1781.5	1566.0	1815.4	2134.4	2110.6	1788.3	1488.0	1343.8
12540.0	62.5°	10748.3	7377.1	1491.4	1413.3	1666.1	1976.6	1954.6	1664.4	1382.8	1243.7
11116.5	65°	9316.4	6001.1	1265.7	1286.1	1515.1	1786.6	1818.8	1560.9	1299.6	1163.9
8600.4	67.5°	7105.6	4346.8	1089.3	1175.8	1367.5	1599.9	1693.3	1486.3	1230.1	1101.1
4976.3	70°	4049.9	2468.6	939.9	1068.9	1236.9	1426.9	1596.6	1426.9	1155.4	1048.5
1864.6	72.5°	1535.5	1133.4	812.7	962.0	1111.3	1281.0	1489.7	1333.6	1068.9	989.2
963.7	75°	*819.5*	*690.5*	*683.8*	*836.5*	*967.1*	*1138.5*	*1355.6*	*1242.0*	*1004.4*	*1045.1*
666.8	77.5°	558.2	488.6	571.8	716.0	809.3	980.7	1213.1	1102.8	870.4	867.0
461.5	80°	386.8	346.1	464.9	576.9	626.1	824.6	1058.7	946.7	709.2	661.7
285.0	82.5°	232.4	225.7	347.8	431.0	442.8	636.2	877.2	794.0	580.3	505.6
169.7	85°	127.2	134.0	222.3	252.8	257.9	444.5	687.1	614.2	446.2	375.0
61.1	87.5°	35.6	45.8	81.4	100.1	123.9	230.7	408.9	364.8	224.0	156.1
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°
4182.3
4489.4
4684.5
4740.5
4709.9
4638.7
4540.3
4374.0
4192.4
4077.1
3982.1
3876.9
3759.8
3588.4
3366.2
3084.5
2763.9
2443.2
2193.8
2027.5
1869.7
1749.3
1589.8
1452.3
1323.4
1221.6
1141.9
1080.8
1035.0
975.6
1079.1
799.1
632.9
509.0
378.4
156.1
0.0

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