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: P941463

Luminaire Tested: **GALN-SB5A-735-U-T1**

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:	P941463
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB5A-735-U-T1
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	22416 lumens
Efficiency:	N/A
Efficacy:	158.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type I - Short
BUG Rating:	B4 - U0 - G4
Input Watts (W):	141.7
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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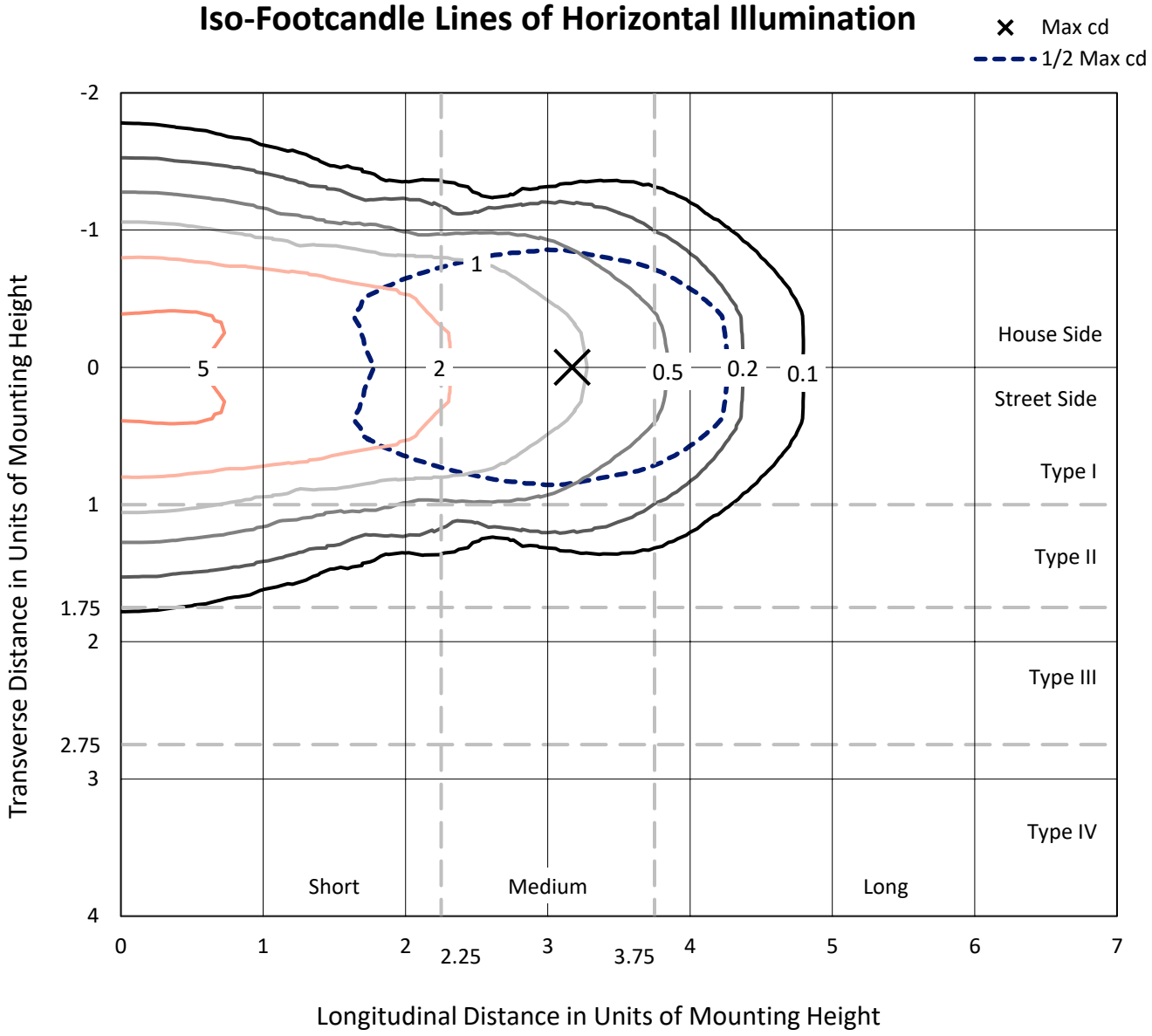
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type I - Short - N/A

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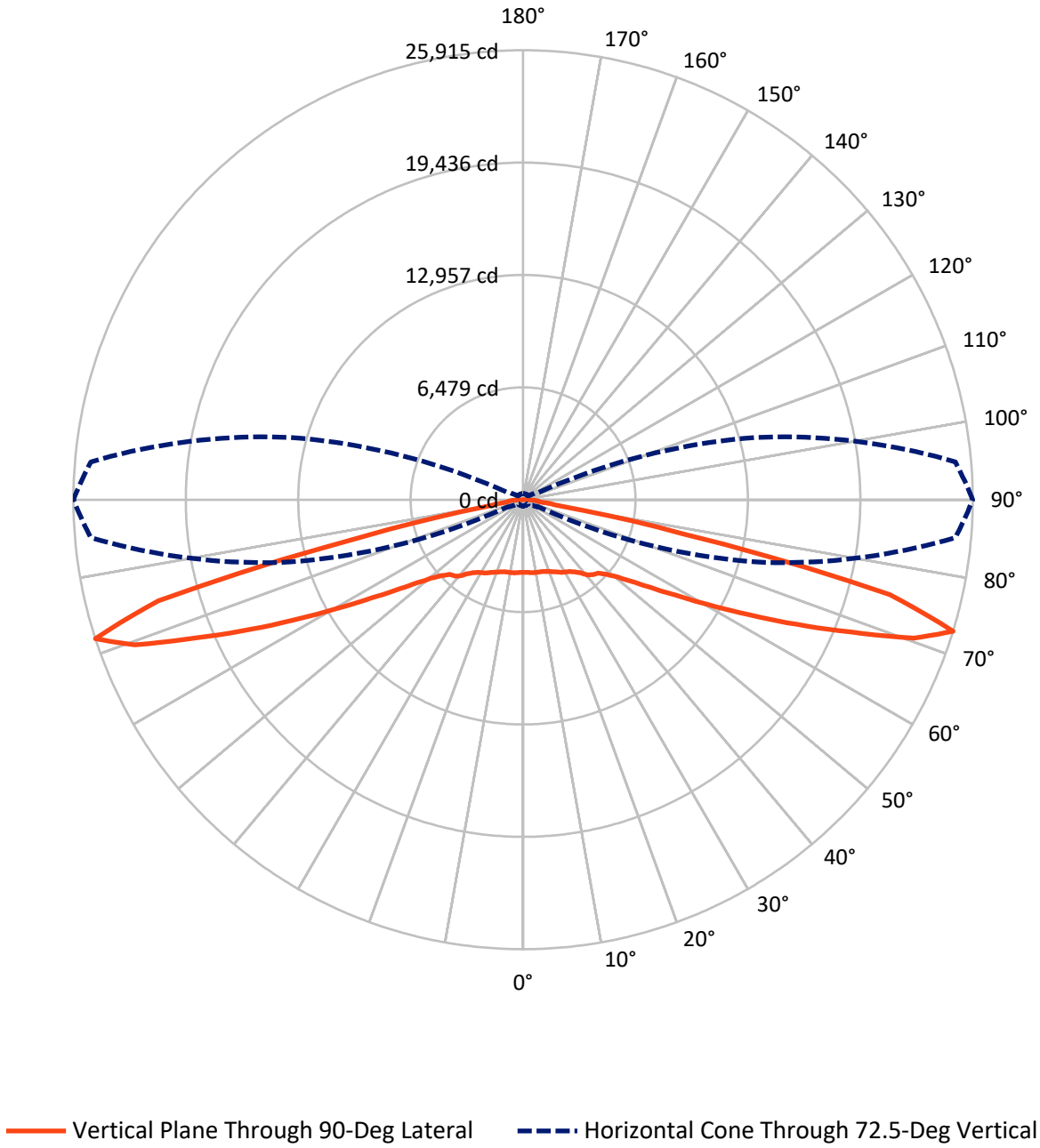
Luminous Intensity Polar Plot



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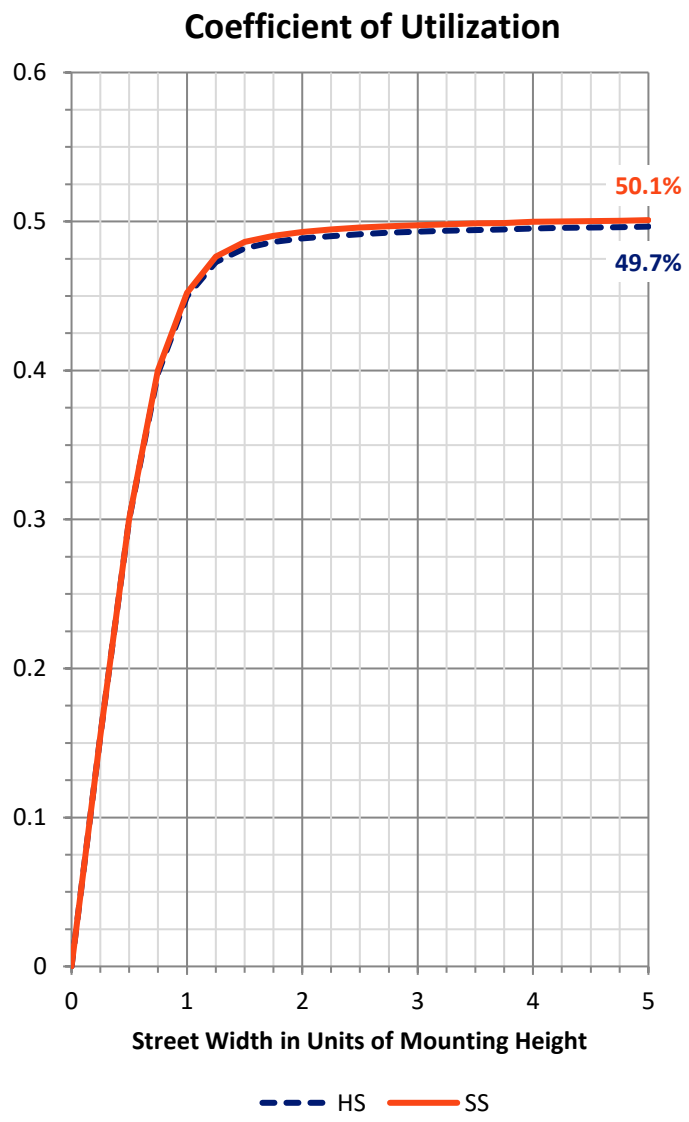
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11208.0	0.0	11208.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11208.0	0.0	11208.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22416.0	0.0	22416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.1	1.8
10°-20°	1241.8	5.5
20°-30°	2070.6	9.2
30°-40°	2847.8	12.7
40°-50°	3477.9	15.5
50°-60°	4022.5	17.9
60°-70°	4796.2	21.4
70°-80°	3347.4	14.9
80°-90°	205.6	0.9
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°	22416.0	100.0
0°-180°	22416.0	100.0



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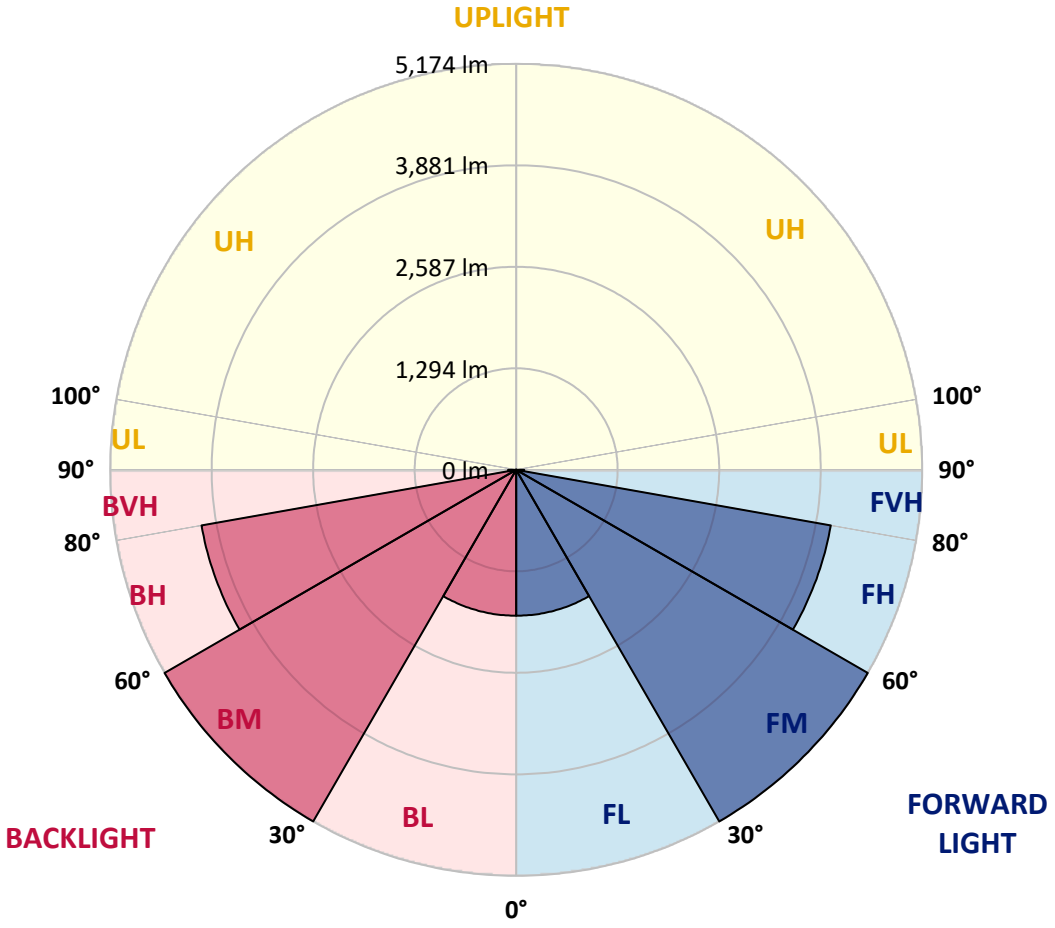
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1859.3	8.3			
FM	(30°-60°)	5174.1	23.1			
FH	(60°-80°)	4071.8	18.2			G2/5000
FVH	(80°-90°)	102.8	0.5			G2/225
BL	(0°-30°)	1859.3	8.3	B3/2500		
BM	(30°-60°)	5174.1	23.1	B4/8500		
BH	(60°-80°)	4071.8	18.2	B4/5000		G4/5000
BVH	(80°-90°)	102.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7	4188.7
2.5°	4192.2	4197.0	4197.0	4193.4	4201.8	4194.6	4194.6	4191.0	4194.6	4191.0
5°	4213.7	4219.6	4222.0	4220.8	4231.6	4225.6	4225.6	4220.8	4222.0	4218.4
7.5°	4254.2	4262.5	4267.3	4273.2	4288.7	4281.6	4276.8	4262.5	4256.6	4247.0
10°	4267.3	4276.8	4292.3	4323.3	4359.0	4360.2	4345.9	4310.2	4282.8	4261.3
12.5°	4226.8	4239.9	4272.1	4335.2	4415.0	4447.2	4424.5	4365.0	4311.4	4273.2
15°	4175.6	4189.9	4238.7	4334.0	4451.9	4527.0	4524.6	4446.0	4360.2	4300.6
17.5°	4095.7	4110.0	4180.3	4313.8	4480.5	4604.4	4637.8	4556.8	4436.5	4356.6
20°	3951.6	3964.7	4062.4	4249.4	4490.1	4686.6	4773.6	4702.1	4552.0	4443.6
22.5°	3764.6	3784.8	3899.2	4138.6	4467.4	4772.4	4928.5	4879.6	4686.6	4536.5
25°	3564.4	3585.9	3719.3	4002.8	4409.1	4834.4	5111.9	5081.0	4839.1	4652.1
27.5°	3391.7	3414.3	3559.7	3868.2	4318.5	4858.2	5293.0	5308.5	5023.8	4779.6
30°	3255.9	3277.3	3432.2	3759.8	4201.8	4834.4	5451.5	5558.7	5212.0	4890.4
32.5°	3107.0	3134.4	3297.6	3627.6	4063.6	4777.2	5589.7	5829.1	5430.0	5009.5
35°	2918.7	2943.7	3115.3	3446.5	3882.5	4685.4	5705.2	6129.3	5742.1	5190.6
37.5°	2690.0	2713.8	2884.2	3220.1	3702.6	4556.8	5793.4	6467.7	6113.8	5451.5
40°	2460.1	2482.7	2642.3	2967.6	3487.0	4392.4	5824.3	6798.8	6540.3	5810.0
42.5°	2249.2	2269.5	2416.0	2718.6	3245.1	4182.7	5783.8	7087.1	6922.7	6060.2
45°	2055.0	2072.9	2202.7	2485.1	2993.8	3927.8	5662.3	7396.9	7377.8	6238.9
47.5°	1833.4	1851.3	1985.9	2258.7	2742.4	3628.7	5456.2	7701.9	8010.4	6644.0
50°	1563.0	1578.5	1716.7	1997.8	2481.5	3310.7	5170.3	7941.3	8808.6	7257.5
52.5°	1242.5	1259.2	1393.8	1675.0	2171.8	2968.8	4793.9	8097.4	9730.7	8153.4
55°	924.5	936.4	1053.1	1305.7	1788.2	2579.2	4322.1	8141.5	10776.6	9378.0
57.5°	670.7	677.9	752.9	941.1	1355.7	2092.0	3749.1	8027.1	12021.6	10948.2
60°	543.2	545.6	568.3	651.6	942.3	1541.6	3056.9	7634.0	13372.5	12972.2
62.5°	493.2	493.2	499.2	521.8	637.4	1017.4	2219.4	6819.1	14821.2	15530.0
65°	458.7	458.7	461.0	471.8	502.7	648.1	1401.0	5492.0	16042.3	18526.2
67.5°	427.7	428.9	427.7	431.3	449.1	478.9	812.5	3793.1	16699.9	21630.7
70°	395.5	397.9	391.9	391.9	406.2	407.4	508.7	2080.0	16154.2	24232.6
72.5°	*357.4*	*361.0*	*351.4*	*349.1*	*359.8*	*355.0*	*382.4*	*998.3*	*13869.3*	*25009.3*
75°	324.0	328.8	307.4	301.4	301.4	297.8	310.9	512.3	9001.6	20401.3
77.5°	294.3	303.8	269.2	250.2	245.4	234.7	253.8	313.3	3937.3	9578.2
80°	243.0	256.1	221.6	198.9	190.6	178.7	200.1	219.2	1171.1	2224.2
82.5°	181.1	187.0	157.3	141.8	134.6	126.3	150.1	152.5	381.2	787.5
85°	115.6	117.9	96.5	83.4	79.8	76.2	95.3	83.4	145.3	579.0
87.5°	40.5	46.5	36.9	33.4	35.7	29.8	44.1	25.0	40.5	408.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4188.7
4191.0
4218.4
4247.0
4257.8
4267.3
4291.1
4343.5
4423.4
4509.1
4614.0
4739.1
4832.0
4935.6
5108.4
5341.9
5693.3
5910.1
6036.4
6410.5
6964.4
7792.4
8926.5
10379.9
12256.3
14571.0
17313.4
20321.5
23888.3
25914.7
21821.3
9379.2
2130.1
889.9
841.1
506.3
0.0

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