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: P943030

Luminaire Tested: **GALN-SB7B-827-U-5WQ**

Issue Date: 1/21/2025

Report Generated By 670246001

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

Test Information

Test Method:	LM-79-08
Report Number:	P943030
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB7B-827-U-5WQ
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35223 lumens
Efficiency:	N/A
Efficacy:	137.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B5 - U0 - G4
Input Watts (W):	256.7
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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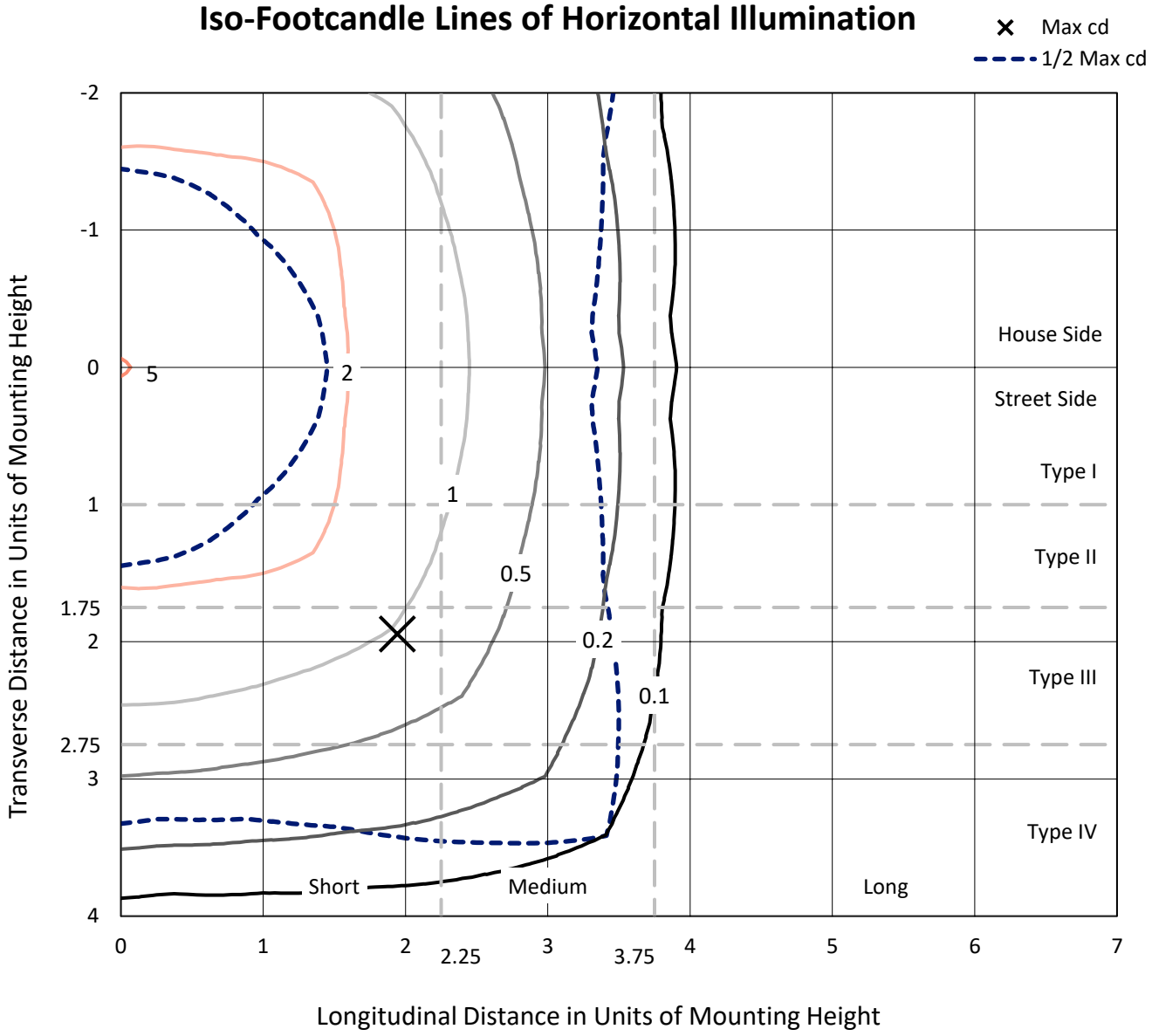
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type V - Short - N/A

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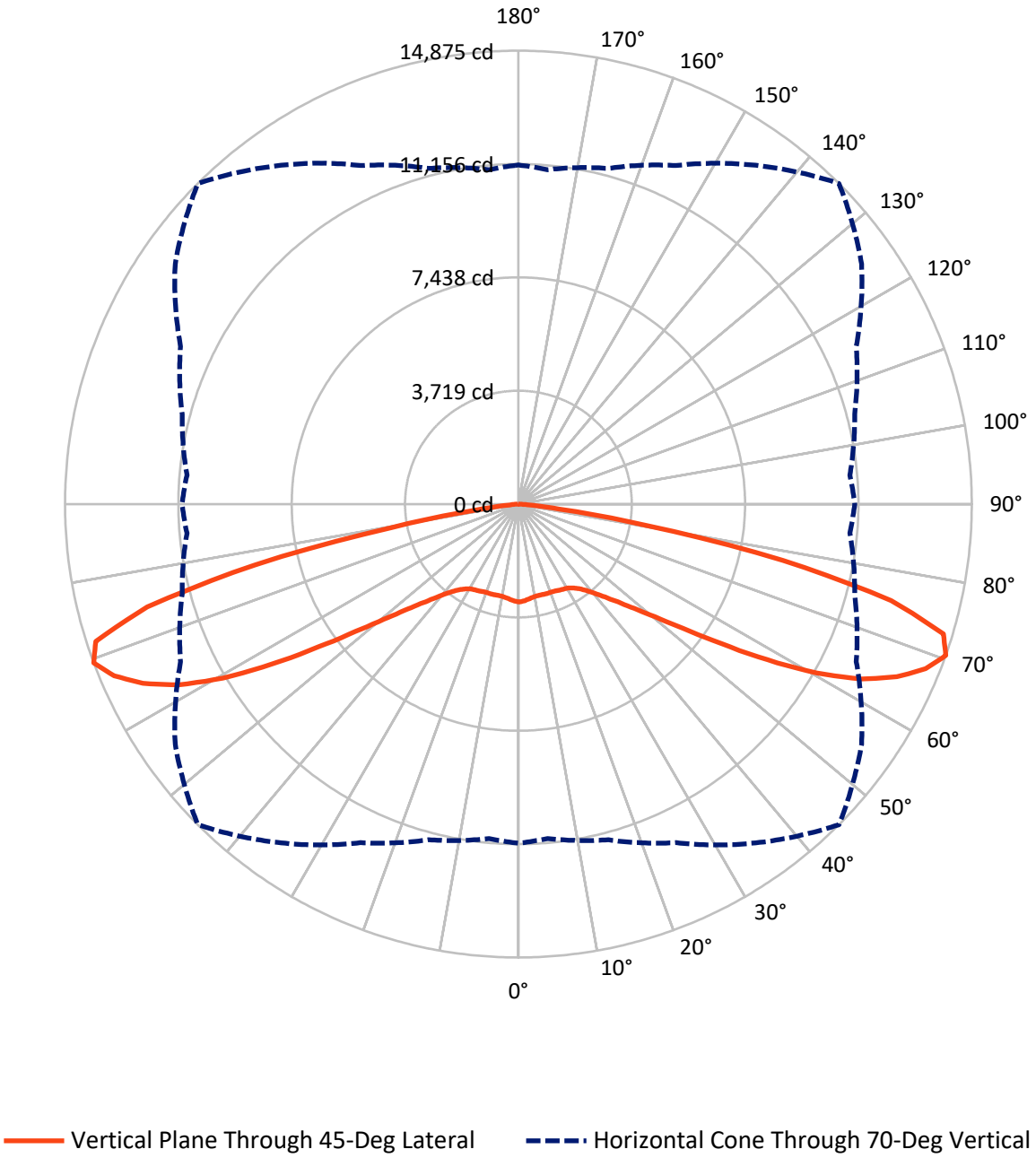
Luminous Intensity Polar Plot



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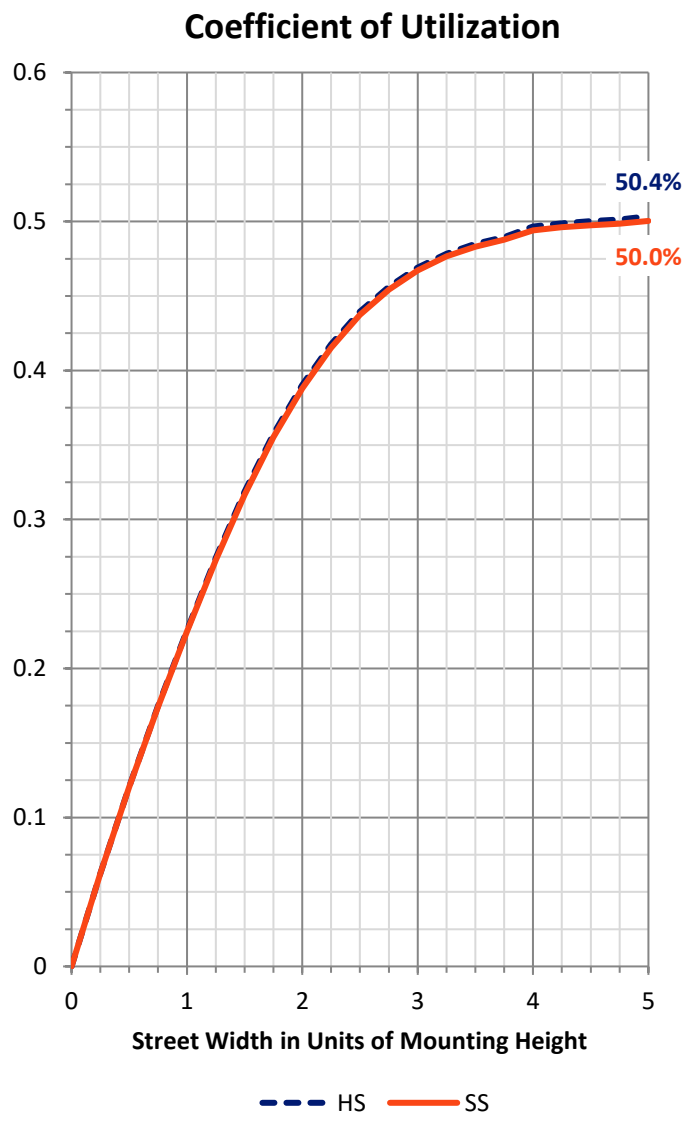
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17611.5	0.0	17611.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17611.5	0.0	17611.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35223.0	0.0	35223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	0.8
10°-20°	877.6	2.5
20°-30°	1460.5	4.1
30°-40°	2208.7	6.3
40°-50°	3670.3	10.4
50°-60°	6925.7	19.7
60°-70°	11694.3	33.2
70°-80°	7684.4	21.8
80°-90°	402.6	1.1
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°-90°	35223.0	100.0
0°-180°	35223.0	100.0



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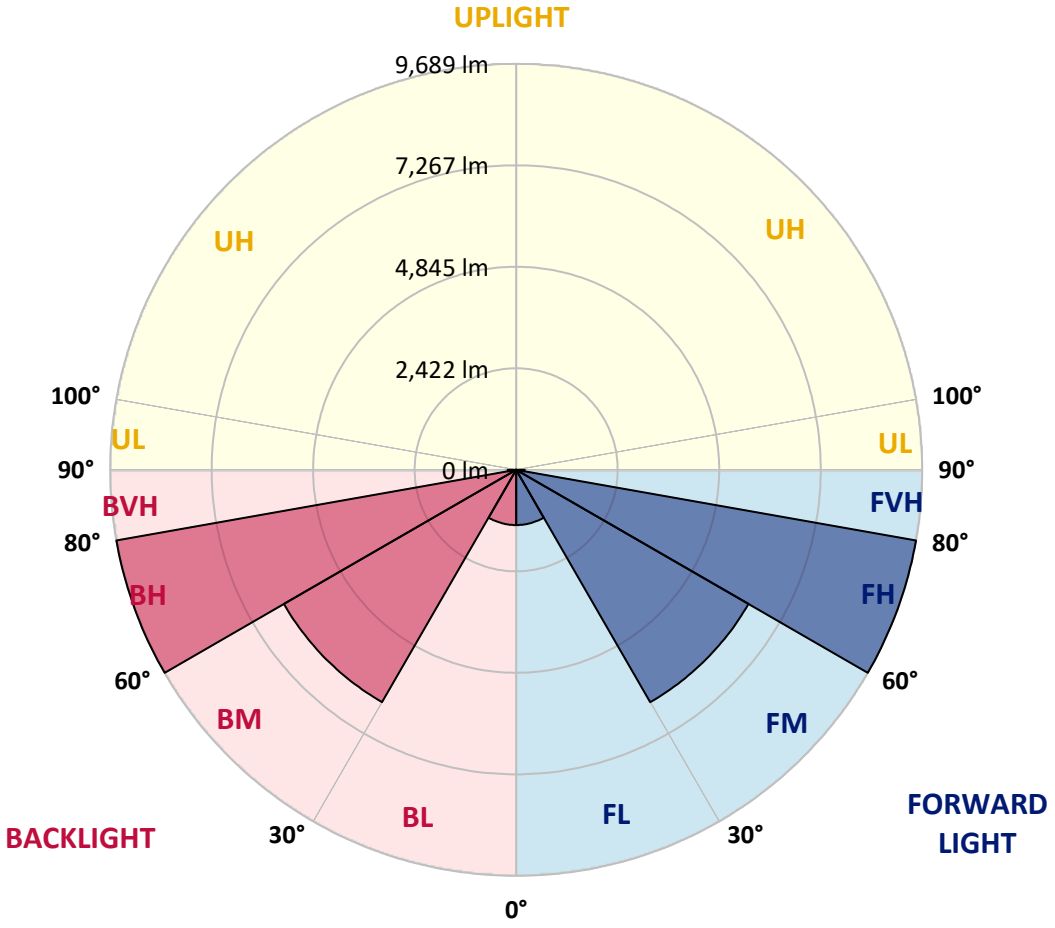
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1318.5	3.7			
FM	(30°-60°)	6402.3	18.2			
FH	(60°-80°)	9689.4	27.5			G4/12000
FVH	(80°-90°)	201.3	0.6			G2/225
BL	(0°-30°)	1318.5	3.7	B3/2500		
BM	(30°-60°)	6402.3	18.2	B4/8500		
BH	(60°-80°)	9689.4	27.5	B5		G4/12000
BVH	(80°-90°)	201.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3213.0	3213.0	3213.0	3213.0	3213.0	*3213.0*	3213.0	3213.0	3213.0	3213.0
2.5°	3192.9	3202.1	3198.4	3191.1	3191.1	*3185.6*	3191.1	3194.7	3200.2	3203.9
5°	3150.8	3158.1	3156.3	3150.8	3152.6	*3147.1*	3150.8	3156.3	3160.0	3161.8
7.5°	3114.2	3121.5	3117.8	3108.7	3108.7	*3103.2*	3105.0	3110.5	3116.0	3117.8
10°	3105.0	3112.4	3101.4	3086.7	3081.2	*3073.9*	3075.7	3081.2	3092.2	3097.7
12.5°	3108.7	3114.2	3103.2	3081.2	3075.7	*3068.4*	3068.4	3073.9	3088.6	3095.9
15°	3119.7	3125.2	3108.7	3084.9	3079.4	*3073.9*	3072.1	3079.4	3095.9	3108.7
17.5°	3139.8	3145.3	3119.7	3086.7	3079.4	*3081.2*	3079.4	3084.9	3110.5	3134.3
20°	3158.1	3161.8	3127.0	3086.7	3079.4	*3081.2*	3079.4	3090.4	3123.3	3156.3
22.5°	3163.6	3167.3	3134.3	3099.5	3094.0	*3095.9*	3094.0	3105.0	3136.2	3169.1
25°	3165.4	3170.9	3145.3	3117.8	3127.0	*3130.7*	3127.0	3128.8	3152.6	3181.9
27.5°	3192.9	3200.2	3176.4	3152.6	3158.1	*3156.3*	3161.8	3167.3	3185.6	3214.9
30°	3249.7	3255.2	3235.0	3211.2	3207.6	*3194.7*	3211.2	3229.5	3249.7	3275.3
32.5°	3343.0	3354.0	3328.4	3302.8	3286.3	*3279.0*	3291.8	3322.9	3350.4	3377.8
35°	3498.7	3506.0	3482.2	3434.6	3405.3	*3405.3*	3416.3	3456.5	3500.5	3535.3
37.5°	3718.3	3727.5	3685.4	3628.6	3584.7	*3584.7*	3599.3	3641.5	3707.4	3756.8
40°	3985.6	3998.5	3945.4	3886.8	3844.7	*3837.3*	3855.7	3903.3	3965.5	4027.8
42.5°	4307.9	4322.5	4252.9	4201.7	4168.7	*4168.7*	4177.9	4221.8	4278.6	4355.5
45°	4719.8	4745.4	4650.2	4599.0	4567.8	*4575.2*	4580.7	4619.1	4670.4	4758.2
47.5°	5210.4	5236.1	5135.4	5082.3	5076.8	*5111.6*	5089.6	5117.1	5144.5	5245.2
50°	5767.0	5810.9	5741.4	5737.7	5748.7	*5812.8*	5761.5	5776.2	5745.0	5809.1
52.5°	6448.1	6512.1	6499.3	6521.3	6644.0	*6775.8*	6658.6	6607.3	6490.2	6510.3
55°	7273.8	7370.8	7389.1	7520.9	7799.2	*8068.3*	7819.3	7612.4	7363.5	7317.7
57.5°	8213.0	8289.8	8377.7	8646.8	9166.8	*9644.6*	9166.8	8709.1	8317.3	8223.9
60°	9223.5	9318.8	9403.0	9800.3	10572.8	*11244.7*	10558.2	9831.4	9313.3	9186.9
62.5°	10309.2	10431.9	10490.5	10931.7	11832.4	*12634.3*	11845.2	10964.6	10389.8	10254.3
65°	11350.9	11451.6	11517.5	11988.1	12848.5	*13652.2*	12907.1	12039.3	11448.0	11270.4
67.5°	11836.1	11891.0	12052.1	12584.9	13493.0	*14410.2*	13646.8	12641.6	11980.7	11669.5
70°	*11125.7*	*11014.1*	*11402.2*	*12255.3*	*13569.9*	*14875.2*	*13745.6*	*12229.7*	*11420.5*	*10915.2*
72.5°	8597.4	8405.2	9078.9	10538.1	12691.1	*14578.6*	12779.0	10620.4	9498.2	8472.9
75°	4677.7	4459.8	5389.9	7235.3	10120.6	*12636.2*	10353.2	7442.2	6001.3	4642.9
77.5°	1320.0	1237.6	1988.2	3500.5	6087.4	*8872.0*	6321.7	3577.4	2358.1	1398.7
80°	404.6	391.8	530.9	1054.5	2585.1	*4249.3*	2484.4	1067.4	675.6	426.6
82.5°	239.8	219.7	263.6	384.5	659.1	*1334.7*	640.8	400.9	322.2	216.0
85°	137.3	128.2	155.6	186.7	221.5	*283.8*	184.9	190.4	172.1	115.3
87.5°	56.8	51.3	60.4	58.6	51.3	*65.9*	49.4	58.6	69.6	45.8
90°	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

(END C

90°
3213.0
3202.1
3161.8
3117.8
3097.7
3097.7
3110.5
3134.3
3158.1
3169.1
3180.1
3207.6
3269.8
3366.8
3522.5
3738.5
4007.6
4350.0
4754.6
5215.9
5770.7
6442.6
7246.3
8158.0
9077.1
10144.4
11182.5
11673.2
11036.0
8727.4
4945.0
1554.3
450.4
234.3
120.8
42.1
0.0

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