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: P951425

Luminaire Tested: **GALN-SB5C-830-U-5NQ**

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:	P951425
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB5C-830-U-5NQ
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35621 lumens
Efficiency:	N/A
Efficacy:	142.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B5 - U0 - G3
Input Watts (W):	249.5
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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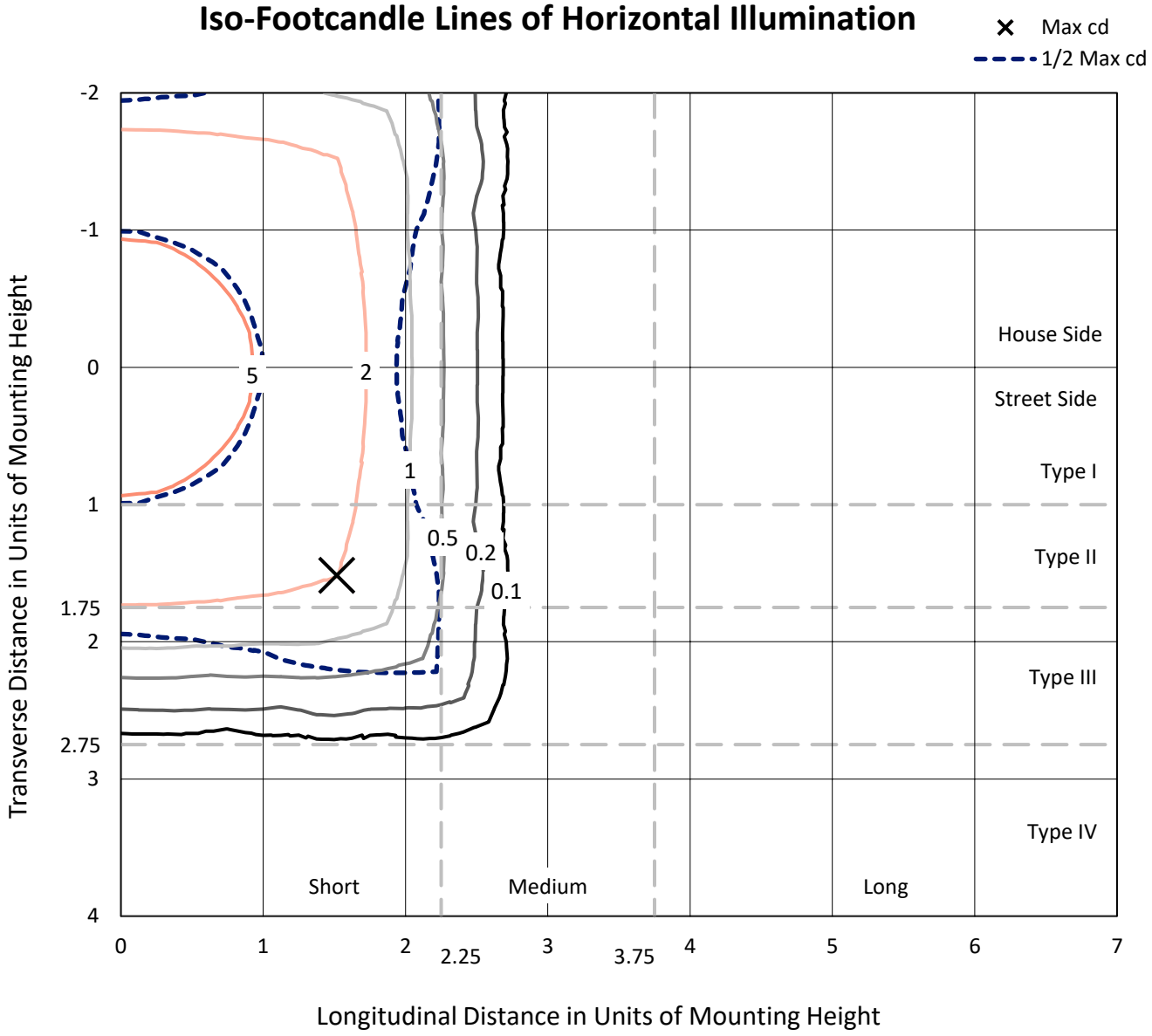
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type V - Short - N/A

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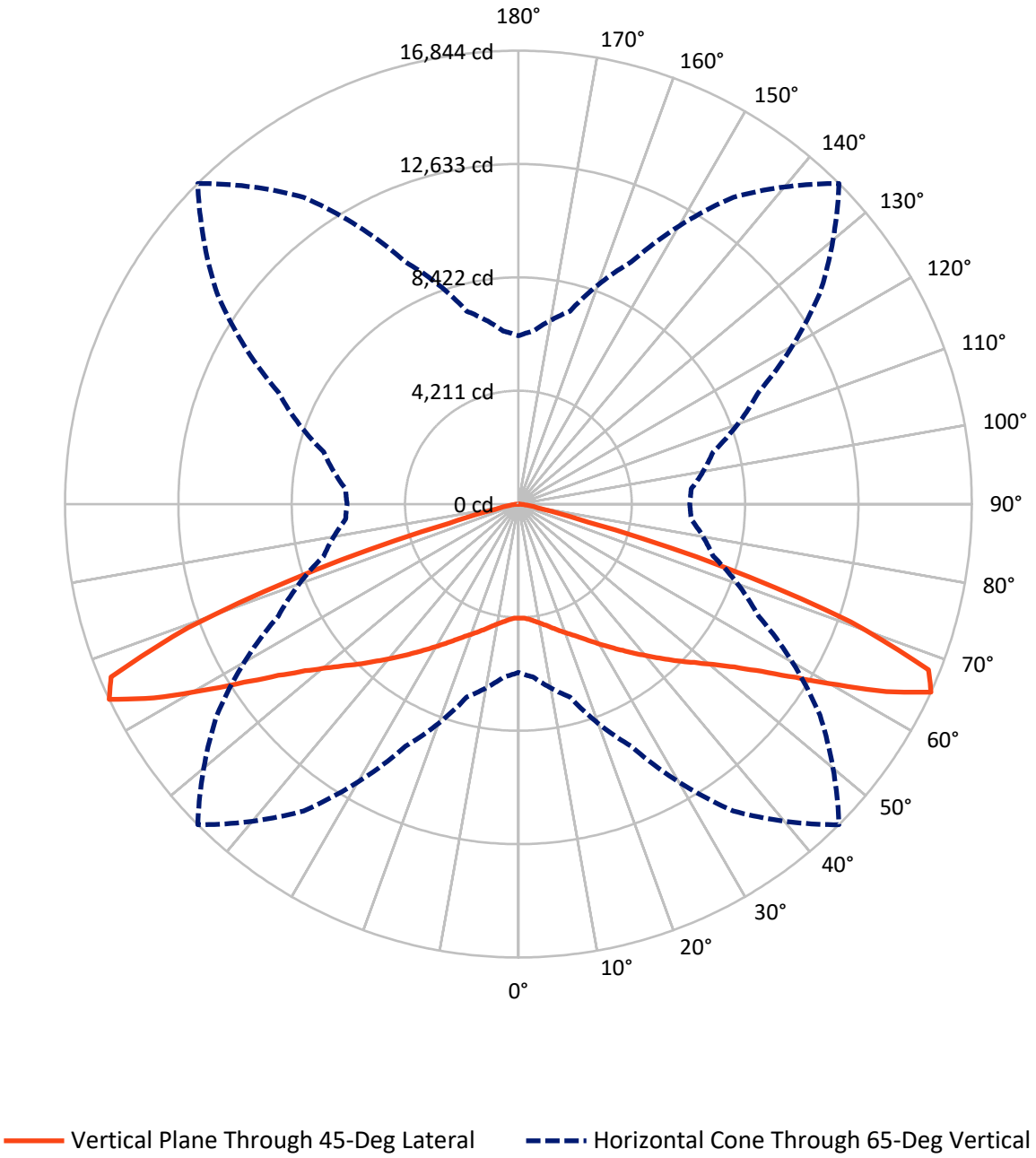
Luminous Intensity Polar Plot



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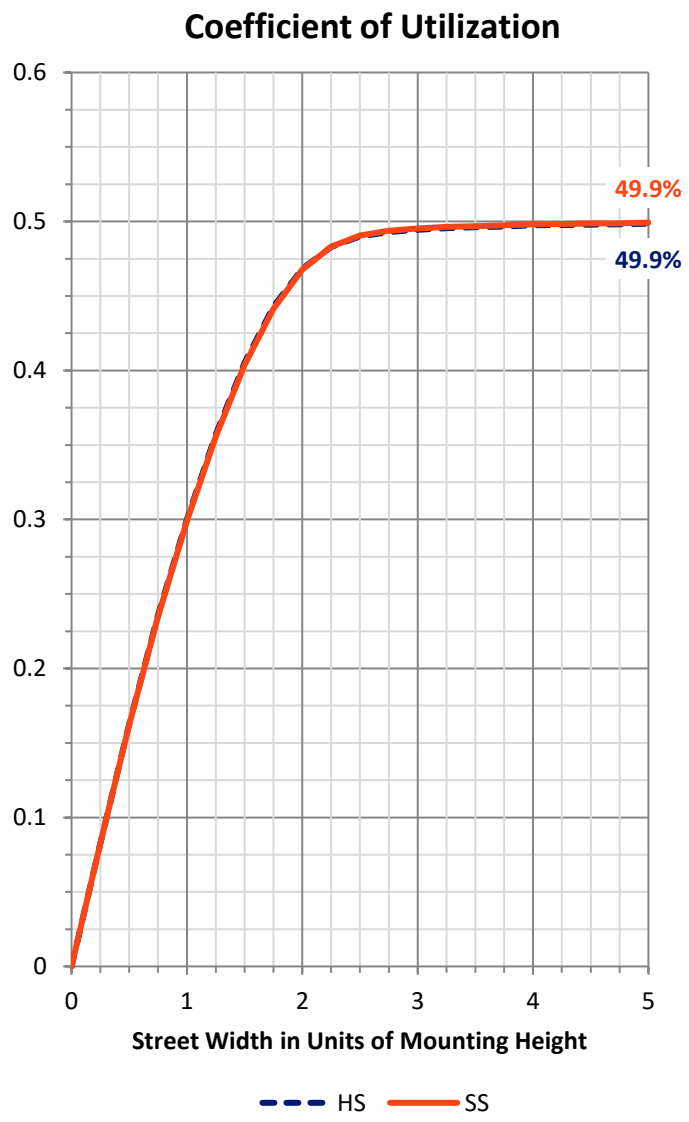
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17810.5	0.0	17810.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17810.5	0.0	17810.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35621.0	0.0	35621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.4	1.2
10°-20°	1365.2	3.8
20°-30°	2577.6	7.2
30°-40°	4220.8	11.8
40°-50°	6544.3	18.4
50°-60°	9667.4	27.1
60°-70°	9202.4	25.8
70°-80°	1484.9	4.2
80°-90°	140.0	0.4
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°	35621.0	100.0
0°-180°	35621.0	100.0



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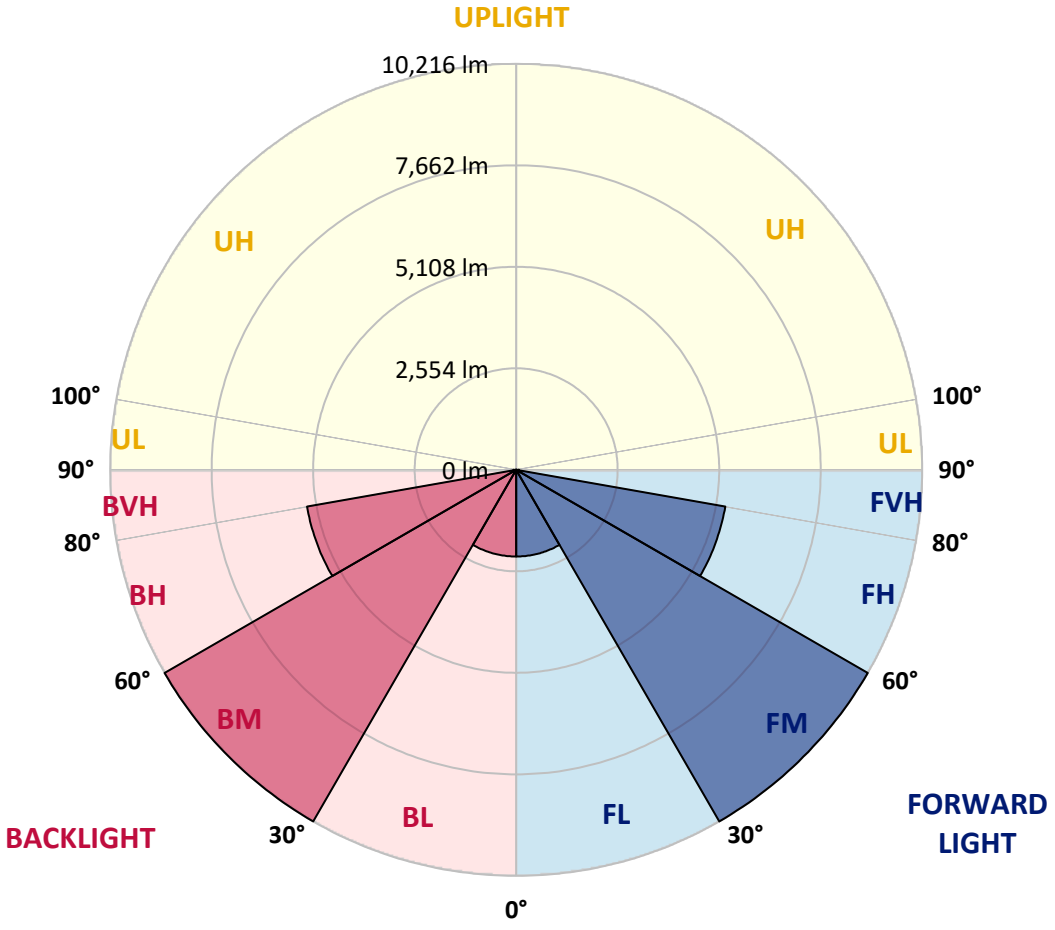
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2180.6	6.1			
FM	(30°-60°)	10216.2	28.7			
FH	(60°-80°)	5343.7	15.0			G3/7500
FVH	(80°-90°)	70.0	0.2			G1/100
BL	(0°-30°)	2180.6	6.1	B3/2500		
BM	(30°-60°)	10216.2	28.7	B5		
BH	(60°-80°)	5343.7	15.0	B5		G3/7500
BVH	(80°-90°)	70.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4239.3	4239.3	4239.3	4239.3	4239.3	*4239.3*	4239.3	4239.3	4239.3	4239.3
2.5°	4267.9	4253.6	4264.3	4255.3	4248.2	*4241.0*	4244.6	4257.1	4262.5	4264.3
5°	4325.0	4312.5	4317.9	4317.9	4305.4	*4301.8*	4303.6	4312.5	4323.3	4323.3
7.5°	4418.0	4405.5	4418.0	4410.8	4400.1	*4396.5*	4394.7	4401.9	4418.0	4418.0
10°	4530.6	4516.3	4523.4	4519.8	4507.3	*4502.0*	4500.2	4510.9	4525.2	4523.4
12.5°	4653.9	4637.8	4646.7	4636.0	4632.4	*4627.1*	4627.1	4625.3	4634.2	4627.1
15°	4791.5	4780.8	4784.4	4777.2	4782.6	*4779.0*	4764.7	4757.5	4761.1	4750.4
17.5°	4954.1	4929.1	4941.6	4938.1	4938.1	*4945.2*	4922.0	4913.0	4920.2	4909.5
20°	5141.8	5116.8	5122.1	5115.0	5106.1	*5113.2*	5084.6	5091.8	5097.1	5090.0
22.5°	5347.3	5315.2	5313.4	5316.9	5297.3	*5299.1*	5279.4	5297.3	5308.0	5288.3
25°	5558.2	5524.3	5547.5	5538.6	5513.5	*5518.9*	5504.6	5522.5	5531.4	5506.4
27.5°	5781.6	5758.4	5779.8	5785.2	5754.8	*5776.3*	5754.8	5770.9	5779.8	5742.3
30°	6042.5	6019.3	6039.0	6053.3	6017.5	*6051.5*	6033.6	6044.3	6046.1	6001.4
32.5°	6326.7	6291.0	6341.0	6348.2	6308.8	*6349.9*	6326.7	6341.0	6349.9	6289.2
35°	6673.4	6628.8	6685.9	6677.0	6643.0	*6677.0*	6655.6	6677.0	6698.5	6625.2
37.5°	7047.0	7000.5	7061.3	7045.2	7013.0	*7036.2*	7023.7	7038.0	7072.0	6993.3
40°	7458.0	7400.8	7483.0	7454.4	7424.1	*7420.5*	7427.6	7436.6	7481.2	7393.7
42.5°	7897.7	7836.9	7960.2	7915.5	7872.6	*7844.1*	7867.3	7885.2	7928.1	7829.8
45°	8399.9	8330.2	8491.0	8437.4	8369.5	*8310.5*	8348.0	8374.9	8437.4	8319.4
47.5°	8953.9	8875.3	9046.8	9030.8	8920.0	*8791.3*	8877.1	8953.9	9000.4	8857.4
50°	9495.4	9434.7	9659.9	9679.5	9543.7	*9363.2*	9482.9	9599.1	9611.6	9423.9
52.5°	10003.0	9942.2	10269.3	10392.6	10271.1	*10056.6*	10183.5	10301.5	10206.7	9963.7
55°	10408.7	10358.7	10775.1	11093.2	11134.3	*10957.4*	11032.4	11028.9	10717.9	10344.4
57.5°	10507.0	10499.8	11025.3	11699.1	12128.0	*12149.4*	12001.1	11622.2	10952.0	10449.8
60°	10060.2	10104.9	10826.9	12015.4	13159.2	*13634.6*	12993.0	11911.7	10685.7	9988.7
62.5°	8723.4	8841.3	9711.7	11629.4	13992.0	*15343.2*	13788.3	11472.1	9591.9	8682.3
65°	*6251.7*	*6457.2*	*7418.7*	*9924.4*	*13917.0*	*16844.4*	*13673.9*	*9843.9*	*7490.2*	*6441.1*
67.5°	2836.3	3045.4	3862.2	6795.0	12097.6	*16436.9*	12069.0	6866.4	4055.2	3056.1
70°	1027.6	1063.4	1326.1	2720.1	7731.5	*13096.7*	8062.1	2739.8	1410.1	1133.1
72.5°	621.9	627.3	682.7	974.0	2686.2	*7951.3*	2800.6	1006.2	697.0	618.4
75°	395.0	391.4	486.1	595.1	952.6	*2682.6*	999.0	595.1	484.3	441.4
77.5°	284.2	293.1	348.5	445.0	600.5	*909.7*	589.8	425.4	348.5	286.0
80°	212.7	218.0	253.8	346.7	421.8	*566.5*	375.3	314.5	262.7	178.7
82.5°	153.7	153.7	166.2	252.0	257.4	*305.6*	203.7	221.6	173.4	126.9
85°	91.1	89.4	103.7	150.1	134.0	*112.6*	92.9	135.8	109.0	78.6
87.5°	32.2	34.0	32.2	42.9	35.7	*30.4*	28.6	37.5	30.4	26.8
90°	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

(END C

90°
4239.3
4264.3
4323.3
4412.6
4519.8
4630.7
4752.2
4918.4
5106.1
5308.0
5535.0
5770.9
6028.2
6330.3
6669.9
7041.6
7422.3
7881.6
8380.2
8905.7
9447.2
9970.8
10356.9
10417.6
9906.5
8628.6
6364.2
3011.4
1118.8
629.1
445.0
291.3
184.1
126.9
76.8
25.0
0.0

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