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: P955709

Luminaire Tested: **GALN-SB8C-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:	P955709
	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-SB8C-830-U-5NQ
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 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:	57020 lumens
Efficiency:	N/A
Efficacy:	142.6 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):	399.8
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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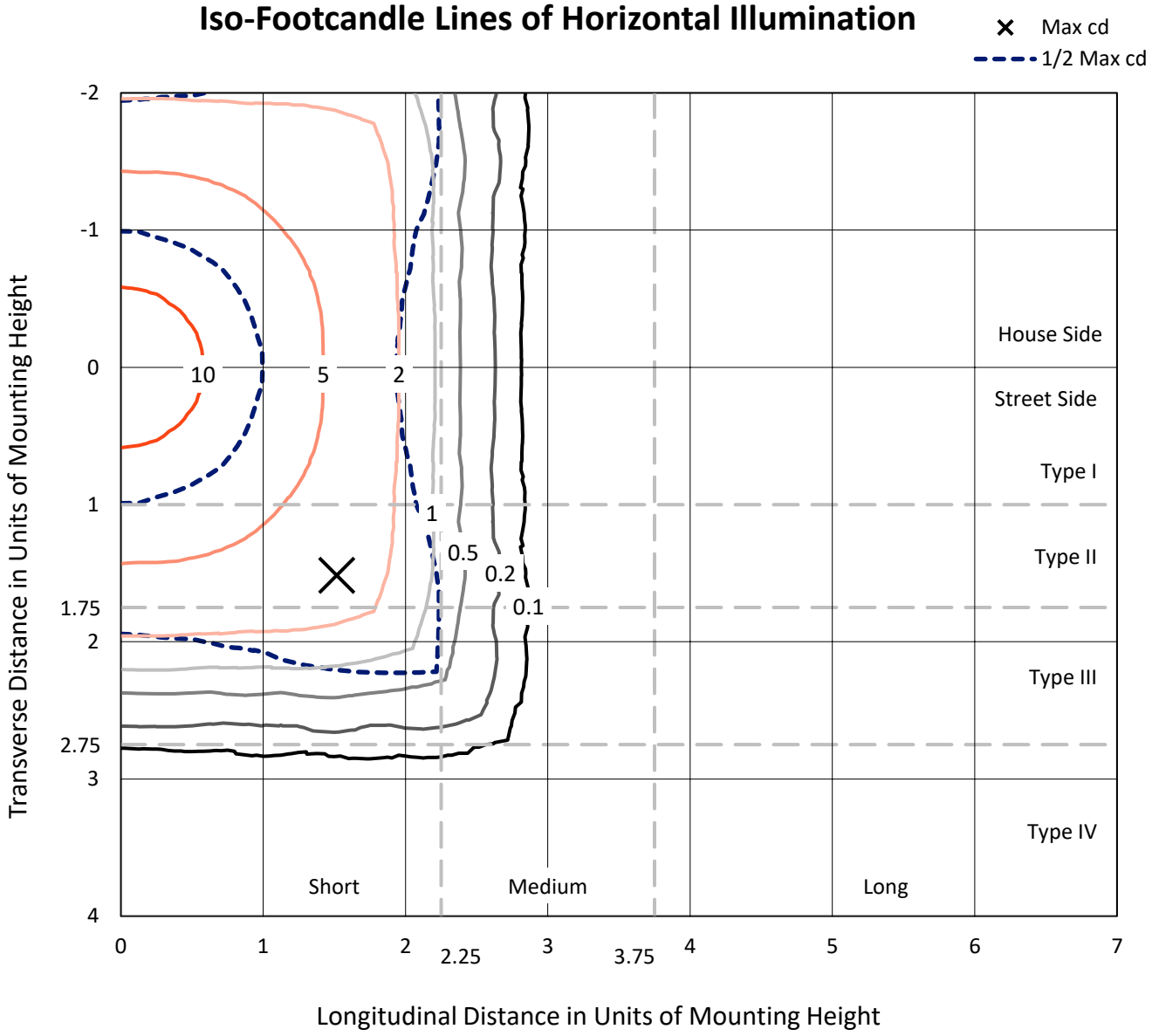
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type V - Short - N/A

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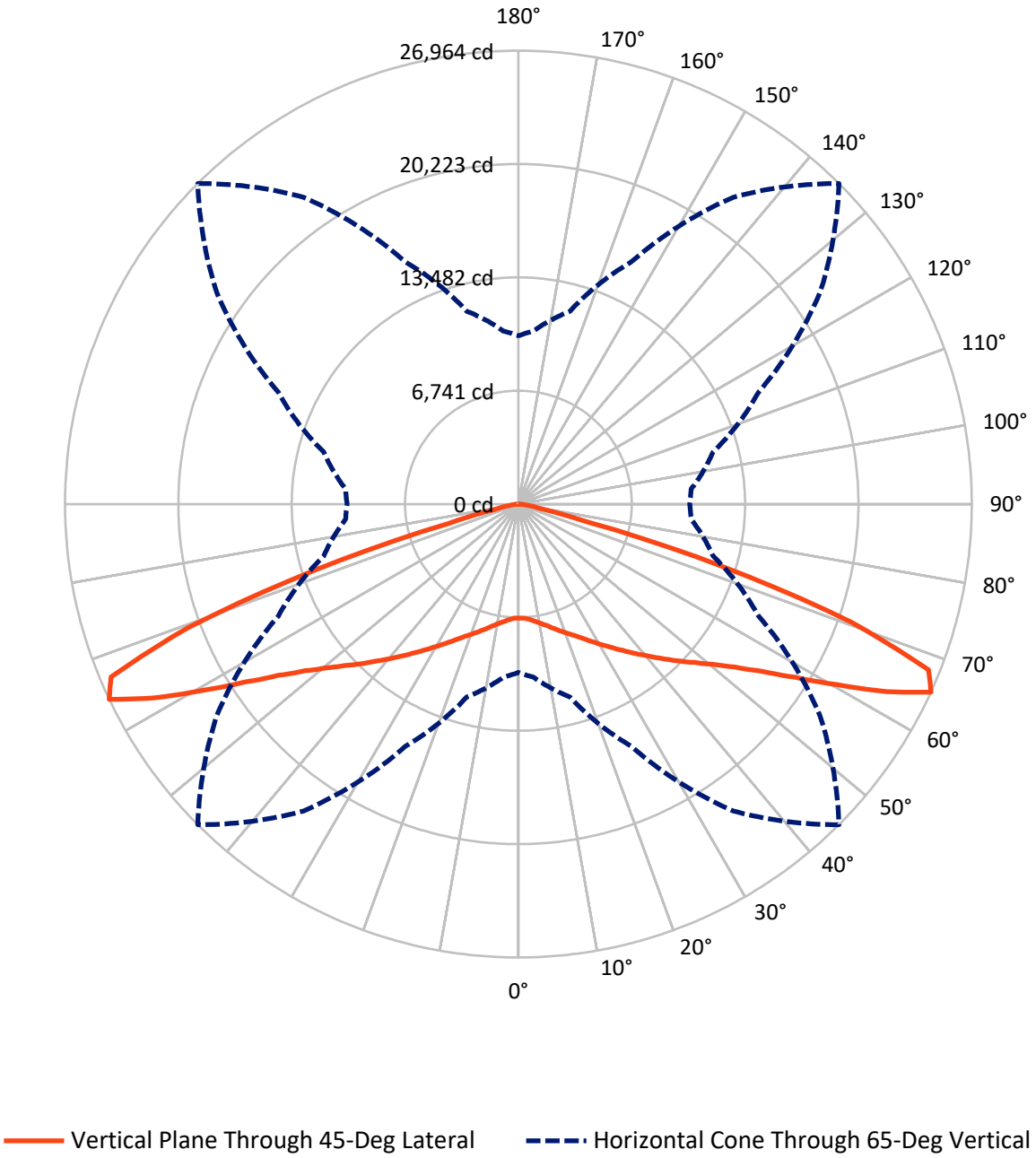
Luminous Intensity Polar Plot



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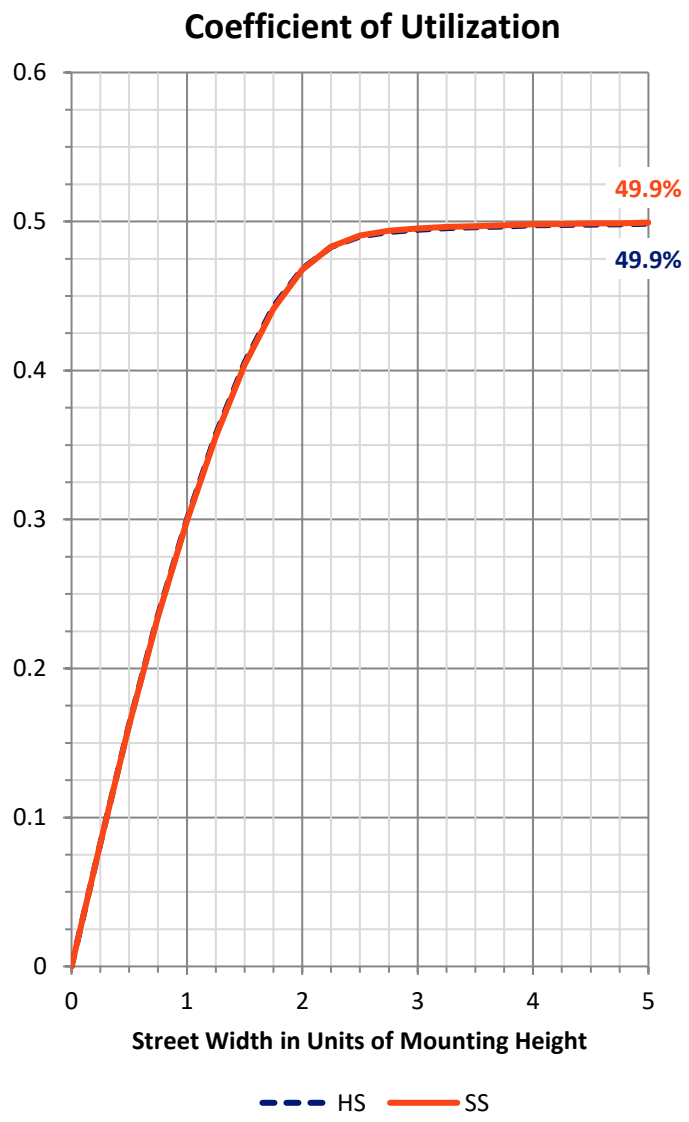
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28510.0	0.0	28510.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28510.0	0.0	28510.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	57020.0	0.0	57020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.7	1.2
10°-20°	2185.3	3.8
20°-30°	4126.1	7.2
30°-40°	6756.4	11.8
40°-50°	10475.8	18.4
50°-60°	15474.9	27.1
60°-70°	14730.7	25.8
70°-80°	2377.0	4.2
80°-90°	224.1	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°	57020.0	100.0
0°-180°	57020.0	100.0



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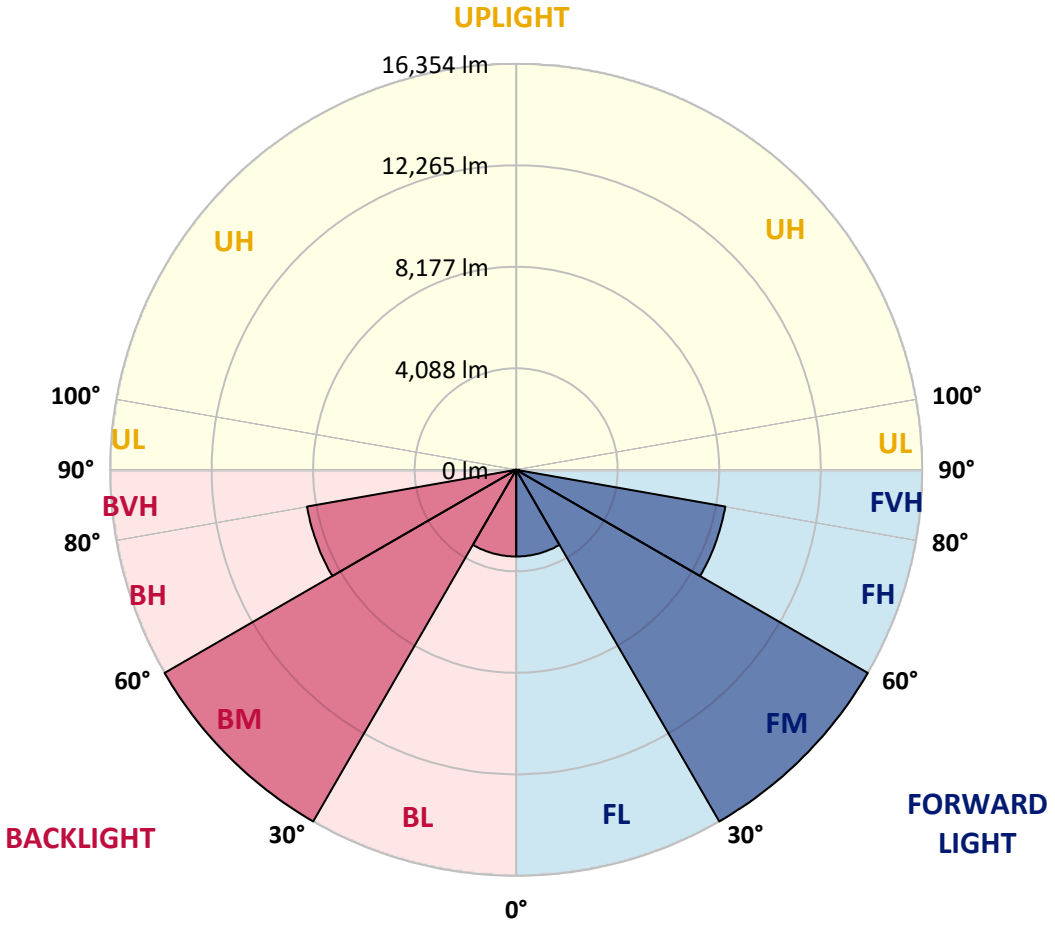
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3490.6	6.1			
FM	(30°-60°)	16353.6	28.7			
FH	(60°-80°)	8553.9	15.0			G4/12000
FVH	(80°-90°)	112.0	0.2			G2/225
BL	(0°-30°)	3490.6	6.1	B4/5000		
BM	(30°-60°)	16353.6	28.7	B5		
BH	(60°-80°)	8553.9	15.0	B5		G4/12000
BVH	(80°-90°)	112.0	0.2			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°	6786.0	6786.0	6786.0	6786.0	6786.0	*6786.0*	6786.0	6786.0	6786.0	6786.0
2.5°	6831.7	6808.8	6826.0	6811.7	6800.3	*6788.8*	6794.5	6814.6	6823.1	6826.0
5°	6923.3	6903.2	6911.8	6911.8	6891.8	*6886.1*	6888.9	6903.2	6920.4	6920.4
7.5°	7072.0	7052.0	7072.0	7060.6	7043.4	*7037.7*	7034.8	7046.3	7072.0	7072.0
10°	7252.3	7229.4	7240.8	7235.1	7215.1	*7206.5*	7203.6	7220.8	7243.7	7240.8
12.5°	7449.7	7423.9	7438.2	7421.1	7415.3	*7406.8*	7406.8	7403.9	7418.2	7406.8
15°	7670.0	7652.8	7658.5	7647.1	7655.7	*7649.9*	7627.0	7615.6	7621.3	7604.2
17.5°	7930.3	7890.2	7910.3	7904.5	7904.5	*7916.0*	7878.8	7864.5	7875.9	7858.8
20°	8230.7	8190.6	8199.2	8187.8	8173.5	*8184.9*	8139.1	8150.6	8159.2	8147.7
22.5°	8559.7	8508.2	8505.3	8511.0	8479.6	*8482.4*	8451.0	8479.6	8496.7	8465.3
25°	8897.3	8842.9	8880.1	8865.8	8825.7	*8834.3*	8811.4	8840.0	8854.3	8814.3
27.5°	9254.9	9217.7	9252.0	9260.6	9212.0	*9246.3*	9212.0	9237.7	9252.0	9191.9
30°	9672.6	9635.4	9666.8	9689.7	9632.5	*9686.9*	9658.2	9675.4	9678.3	9606.8
32.5°	10127.4	10070.2	10150.3	10161.8	10098.8	*10164.6*	10127.4	10150.3	10164.6	10067.4
35°	10682.4	10610.9	10702.5	10688.2	10633.8	*10688.2*	10653.8	10688.2	10722.5	10605.2
37.5°	11280.4	11206.0	11303.2	11277.5	11226.0	*11263.2*	11243.2	11266.1	11320.4	11194.5
40°	11938.4	11846.8	11978.4	11932.6	11884.0	*11878.3*	11889.7	11904.0	11975.5	11835.4
42.5°	12642.1	12544.9	12742.3	12670.7	12602.1	*12556.3*	12593.5	12622.1	12690.8	12533.4
45°	13446.0	13334.4	13591.9	13506.1	13397.4	*13303.0*	13363.1	13406.0	13506.1	13317.3
47.5°	14332.9	14207.0	14481.7	14455.9	14278.5	*14072.6*	14209.9	14332.9	14407.3	14178.4
50°	15199.7	15102.5	15462.9	15494.4	15277.0	*14988.0*	15179.7	15365.7	15385.7	15085.3
52.5°	16012.2	15914.9	16438.5	16635.9	16441.3	*16098.0*	16301.2	16490.0	16338.3	15949.3
55°	16661.6	16581.5	17248.1	17757.3	17823.1	*17539.9*	17660.1	17654.3	17156.6	16558.6
57.5°	16819.0	16807.5	17648.6	18727.2	19413.8	*19448.1*	19210.6	18604.1	17531.3	16727.4
60°	16103.8	16175.3	17331.1	19233.5	21064.5	*21825.5*	20798.4	19067.6	17105.1	15989.3
62.5°	13963.8	14152.7	15545.9	18615.6	22397.6	*24560.4*	22071.5	18363.8	15354.2	13898.0
65°	*10007.3*	*10336.3*	*11875.4*	*15886.3*	*22277.5*	*26963.6*	*21888.4*	*15757.6*	*11989.8*	*10310.5*
67.5°	4540.2	4874.9	6182.3	10877.0	19365.1	*26311.3*	19319.4	10991.4	6491.3	4892.1
70°	1645.0	1702.2	2122.8	4354.2	12376.1	*20964.4*	12905.3	4385.7	2257.2	1813.8
72.5°	995.6	1004.2	1092.8	1559.2	4299.9	*12727.9*	4483.0	1610.7	1115.7	989.9
75°	632.2	626.5	778.2	952.7	1524.8	*4294.1*	1599.2	952.7	775.3	706.6
77.5°	454.9	469.2	557.9	712.4	961.2	*1456.2*	944.1	680.9	557.9	457.7
80°	340.4	349.0	406.2	555.0	675.2	*906.9*	600.8	503.5	420.5	286.1
82.5°	246.0	246.0	266.1	403.4	412.0	*489.2*	326.1	354.7	277.5	203.1
85°	145.9	143.0	165.9	240.3	214.6	*180.2*	148.8	217.4	174.5	125.9
87.5°	51.5	54.4	51.5	68.7	57.2	*48.6*	45.8	60.1	48.6	42.9
90°	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

(END C

90°
6786.0
6826.0
6920.4
7063.5
7235.1
7412.5
7607.0
7873.1
8173.5
8496.7
8860.1
9237.7
9649.7
10133.2
10676.7
11271.8
11881.1
12616.4
13414.6
14255.6
15122.5
15960.7
16578.7
16675.9
15857.7
13812.2
10187.5
4820.5
1790.9
1007.0
712.4
466.3
294.7
203.1
123.0
40.1
0.0

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