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: P946846

Luminaire Tested: **GALN-SB2B-850-U-5MQ**

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:	P946846
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB2B-850-U-5MQ
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11281 lumens
Efficiency:	N/A
Efficacy:	152.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B4 - U0 - G2
Input Watts (W):	73.9
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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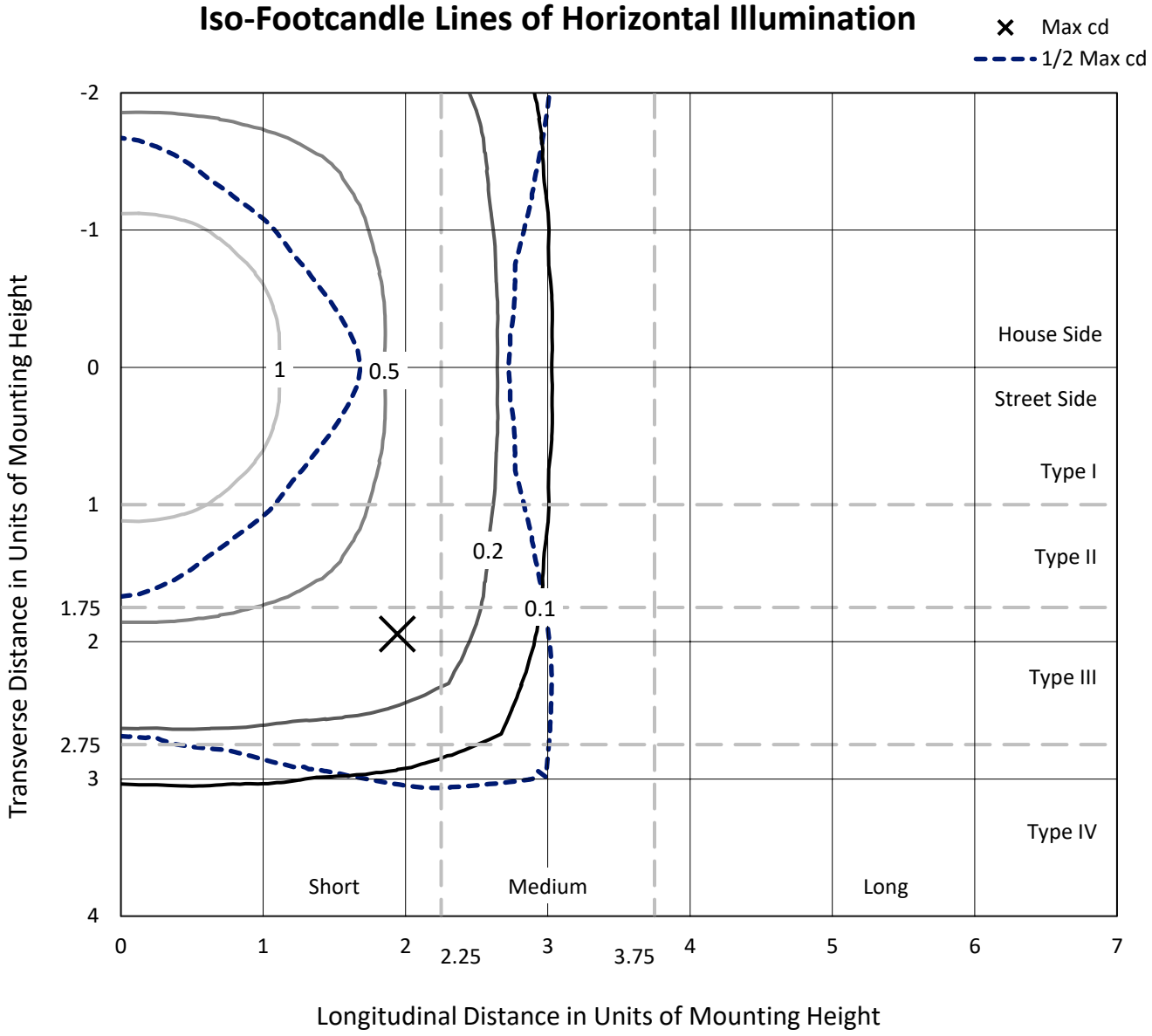
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type V - Short - N/A

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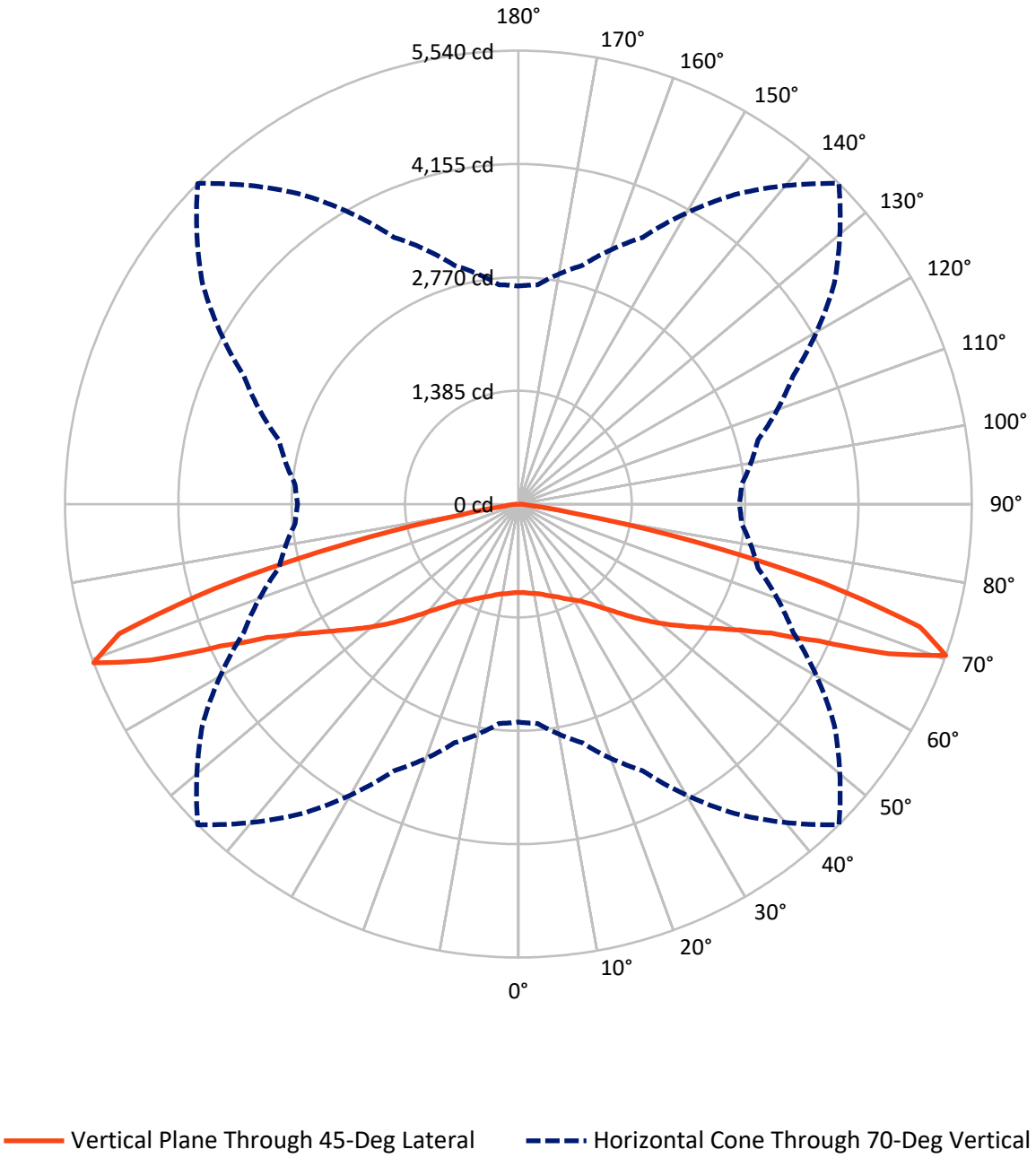
Luminous Intensity Polar Plot



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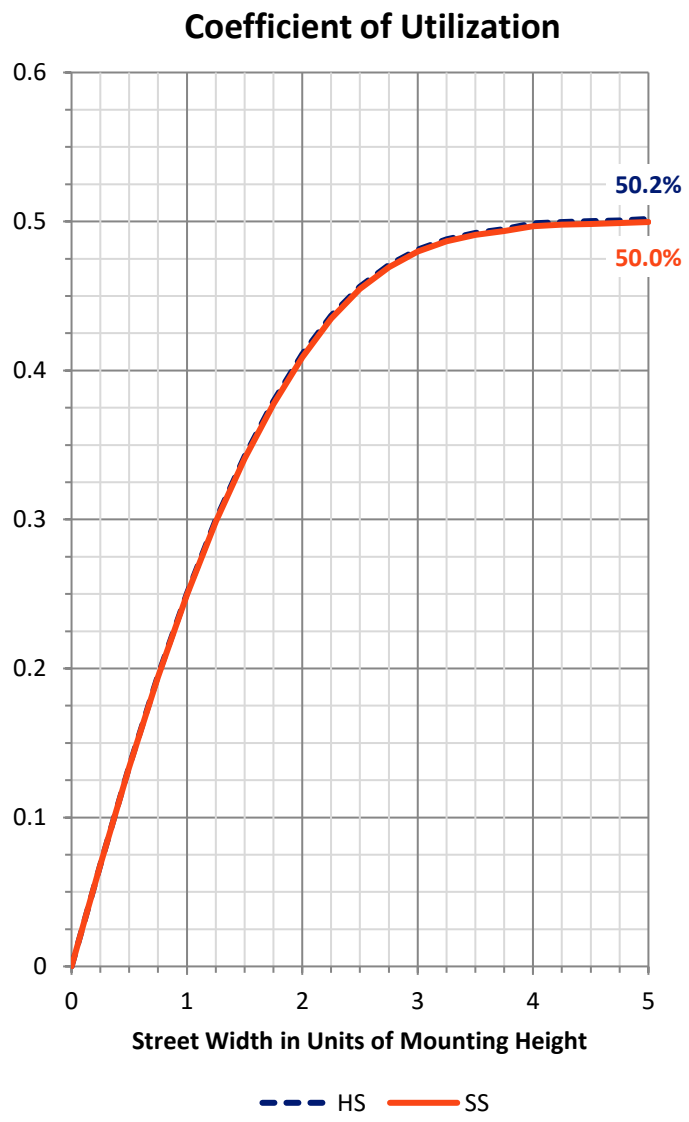
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5640.5	0.0	5640.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5640.5	0.0	5640.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11281.0	0.0	11281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	0.9
10°-20°	325.5	2.9
20°-30°	581.8	5.2
30°-40°	943.0	8.4
40°-50°	1536.0	13.6
50°-60°	2342.0	20.8
60°-70°	3484.1	30.9
70°-80°	1898.9	16.8
80°-90°	64.7	0.6
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°	11281.0	100.0
0°-180°	11281.0	100.0



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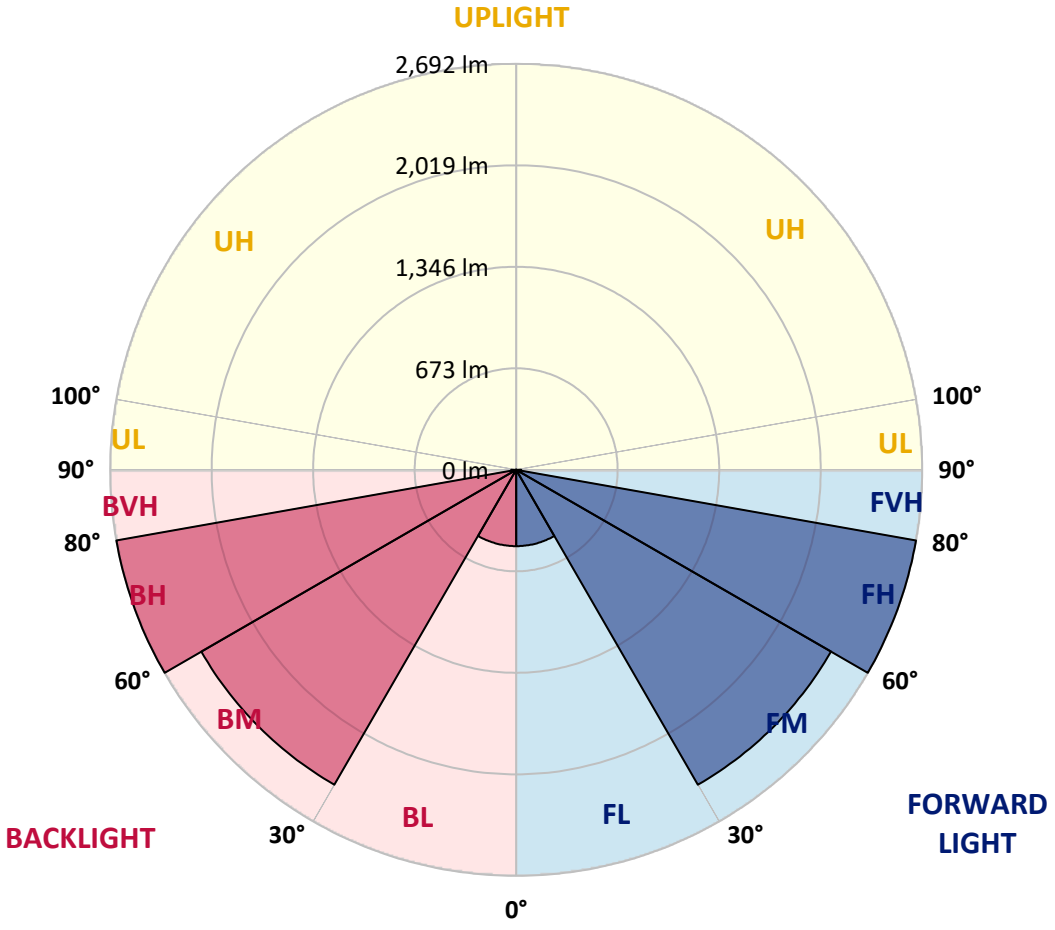
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	506.1	4.5			
FM	(30°-60°)	2410.5	21.4			
FH	(60°-80°)	2691.5	23.9			G2/5000
FVH	(80°-90°)	32.3	0.3			G1/100
BL	(0°-30°)	506.1	4.5	B2/1000		
BM	(30°-60°)	2410.5	21.4	B2/2500		
BH	(60°-80°)	2691.5	23.9	B4/5000		G2/5000
BVH	(80°-90°)	32.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1080.6	1080.6	1080.6	1080.6	1080.6	*1080.6*	1080.6	1080.6	1080.6	1080.6
2.5°	1085.7	1086.8	1084.6	1083.4	1082.3	*1080.6*	1081.2	1084.0	1086.3	1085.7
5°	1094.8	1095.9	1094.2	1093.6	1091.4	*1090.8*	1090.8	1093.6	1095.3	1094.2
7.5°	1105.0	1106.7	1103.8	1103.3	1102.1	*1101.0*	1100.4	1103.3	1105.0	1105.0
10°	1114.6	1116.3	1114.0	1112.3	1111.2	*1111.2*	1110.1	1112.3	1115.2	1114.6
12.5°	1124.8	1125.9	1123.6	1122.5	1122.5	*1124.2*	1122.5	1123.6	1125.9	1124.8
15°	1137.2	1137.8	1137.2	1138.9	1141.8	*1147.4*	1142.3	1141.2	1142.3	1139.5
17.5°	1154.2	1155.4	1157.6	1161.6	1165.6	*1175.8*	1166.7	1163.9	1163.9	1158.2
20°	1175.2	1176.9	1180.3	1187.1	1192.2	*1201.8*	1192.7	1188.8	1187.1	1179.7
22.5°	1197.3	1200.1	1205.2	1214.3	1223.3	*1232.4*	1223.3	1216.5	1211.4	1201.8
25°	1222.8	1226.2	1234.1	1248.8	1261.3	*1274.3*	1263.5	1249.9	1239.7	1226.2
27.5°	1259.0	1263.0	1272.6	1290.7	1306.6	*1317.9*	1307.7	1290.2	1276.0	1259.6
30°	1310.0	1313.9	1325.3	1344.5	1355.3	*1362.6*	1355.9	1342.3	1325.3	1306.6
32.5°	1375.7	1380.8	1393.2	1411.4	1413.6	*1414.8*	1412.5	1405.7	1393.2	1370.6
35°	1458.9	1464.6	1478.7	1493.5	1491.2	*1493.5*	1490.1	1487.8	1478.7	1452.7
37.5°	1560.9	1567.7	1582.4	1593.7	1588.1	*1585.2*	1585.8	1586.4	1581.3	1552.4
40°	1679.2	1688.3	1699.1	1711.0	1701.3	*1692.8*	1698.5	1703.0	1698.5	1669.0
42.5°	1801.0	1814.0	1825.4	1842.3	1834.4	*1823.7*	1831.6	1836.7	1827.1	1795.3
45°	1936.4	1948.8	1963.5	1989.0	1983.4	*1972.0*	1983.4	1984.5	1968.1	1930.7
47.5°	2076.3	2089.3	2111.4	2145.3	2143.1	*2130.6*	2145.3	2137.4	2116.5	2071.7
50°	2208.8	2226.9	2260.9	2308.5	2313.0	*2297.7*	2317.5	2302.2	2267.1	2211.0
52.5°	2333.4	2352.6	2406.4	2471.0	2487.4	*2467.6*	2494.2	2467.6	2414.9	2343.0
55°	2464.2	2485.7	2549.7	2634.1	2667.0	*2652.2*	2677.2	2636.9	2562.2	2475.0
57.5°	2618.3	2631.3	2707.7	2808.0	2863.5	*2866.9*	2878.2	2810.2	2719.6	2620.5
60°	2785.3	2803.5	2886.7	3006.8	3094.6	*3122.9*	3111.0	3010.2	2904.8	2791.0
62.5°	2999.4	3019.2	3118.9	3262.8	3401.5	*3471.7*	3425.3	3279.2	3148.9	3012.4
65°	3176.7	3198.8	3378.9	3635.4	3888.0	*4029.0*	3912.4	3643.4	3408.9	3216.3
67.5°	3048.1	3075.3	3357.9	3829.1	4457.2	*4878.0*	4478.7	3886.9	3427.6	3166.5
70°	*2664.1*	*2689.6*	*3019.2*	*3595.2*	*4617.5*	*5539.5*	*4713.8*	*3701.1*	*3030.0*	*2737.8*
72.5°	1768.7	1850.8	2184.4	2875.4	4123.1	*5126.1*	4163.8	2817.0	2026.4	1764.8
75°	586.7	652.4	880.1	1490.6	2761.5	*3833.6*	2629.0	1319.0	697.2	501.8
77.5°	147.8	170.5	235.0	426.5	1101.6	*2182.7*	991.7	348.3	189.7	132.5
80°	71.9	79.3	113.3	142.2	275.8	*693.8*	258.8	133.7	89.5	69.1
82.5°	39.6	40.2	64.0	80.4	102.5	*179.5*	106.5	78.2	51.5	41.9
85°	24.4	23.8	34.0	43.0	43.0	*64.0*	51.0	43.0	29.5	26.1
87.5°	9.6	9.6	12.5	13.6	11.9	*16.4*	13.0	14.2	11.3	10.8
90°	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

(END C

90°
1080.6
1086.3
1094.8
1105.0
1114.6
1124.2
1139.5
1158.2
1179.7
1201.2
1225.6
1259.0
1306.6
1371.1
1452.7
1552.4
1669.0
1797.6
1934.7
2068.9
2209.9
2336.2
2463.1
2606.9
2772.9
2988.6
3184.6
3127.4
2698.7
1707.6
474.6
118.4
63.4
41.9
27.2
11.3
0.0

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