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: P947119

Luminaire Tested: **GALN-SB2C-827-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:	P947119
	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-SB2C-827-U-5MQ
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13639 lumens
Efficiency:	N/A
Efficacy:	135.2 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):	100.9
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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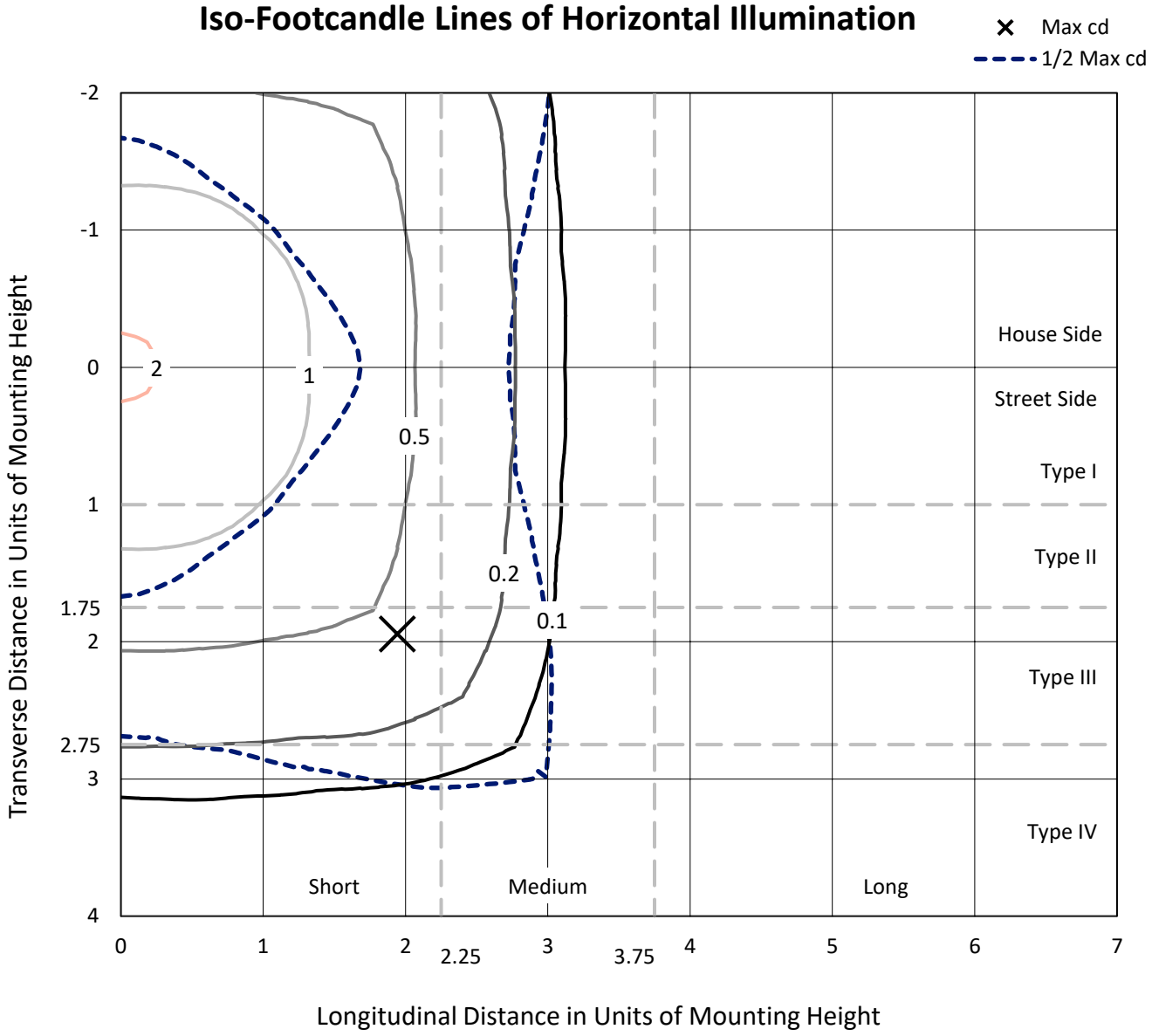
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type V - Short - N/A

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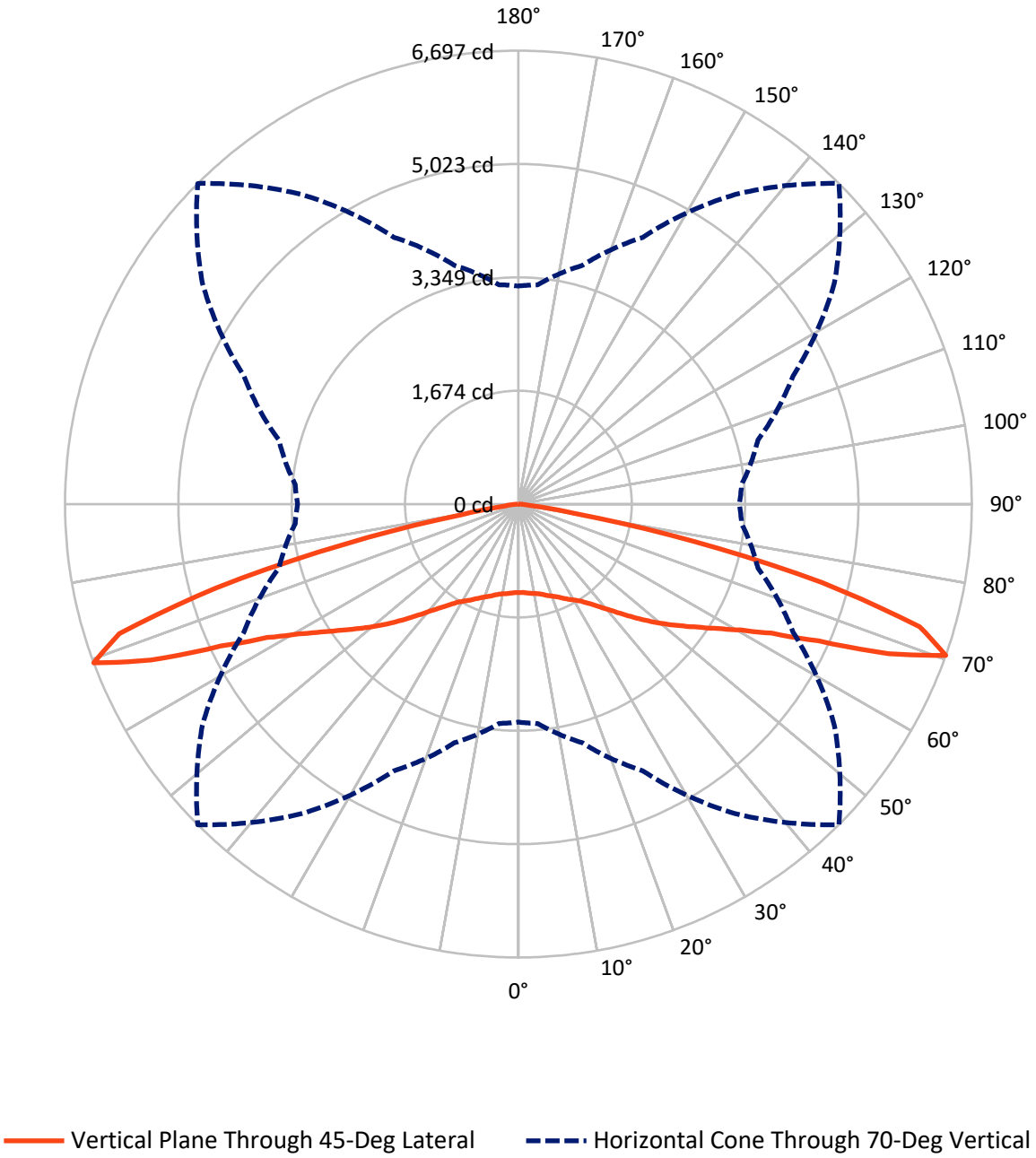
Luminous Intensity Polar Plot



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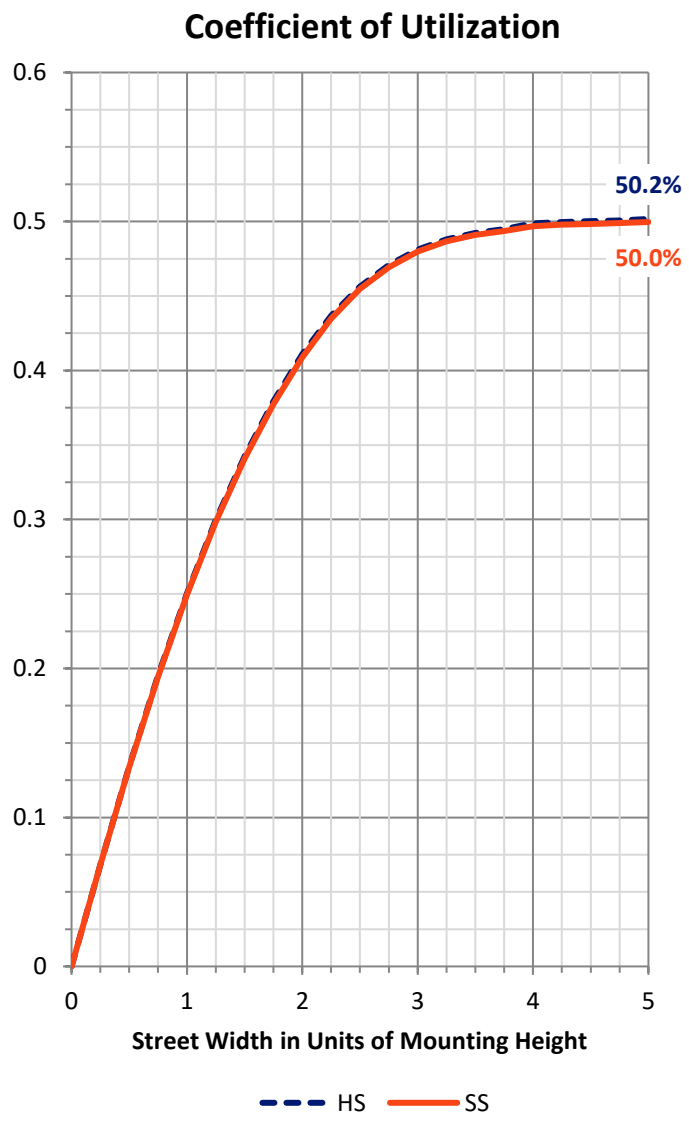
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6819.5	0.0	6819.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6819.5	0.0	6819.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13639.0	0.0	13639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	0.9
10°-20°	393.6	2.9
20°-30°	703.4	5.2
30°-40°	1140.1	8.4
40°-50°	1857.1	13.6
50°-60°	2831.5	20.8
60°-70°	4212.3	30.9
70°-80°	2295.9	16.8
80°-90°	78.2	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°	13639.0	100.0
0°-180°	13639.0	100.0



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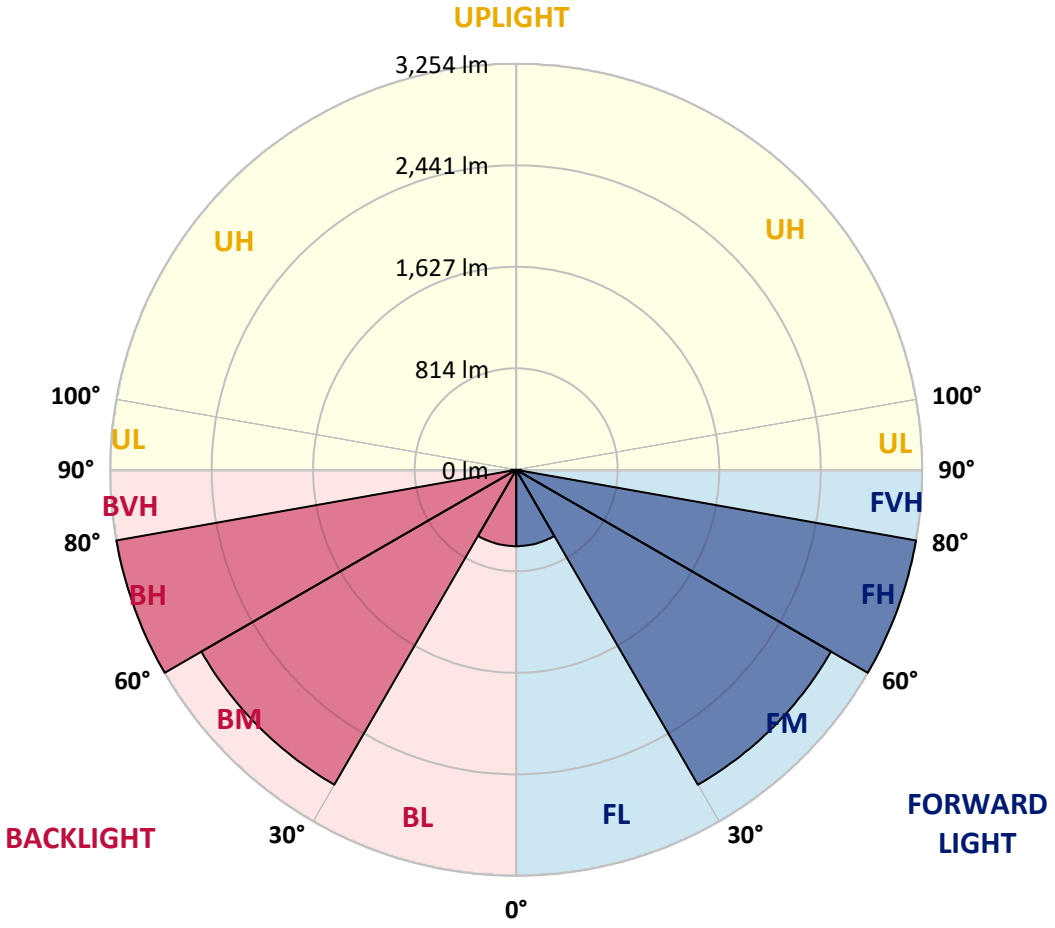
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	611.9	4.5			
FM	(30°-60°)	2914.4	21.4			
FH	(60°-80°)	3254.1	23.9			G2/5000
FVH	(80°-90°)	39.1	0.3			G1/100
BL	(0°-30°)	611.9	4.5	B2/1000		
BM	(30°-60°)	2914.4	21.4	B3/5000		
BH	(60°-80°)	3254.1	23.9	B4/5000		G2/5000
BVH	(80°-90°)	39.1	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°	1306.5	1306.5	1306.5	1306.5	1306.5	*1306.5*	1306.5	1306.5	1306.5	1306.5
2.5°	1312.6	1314.0	1311.3	1309.9	1308.5	*1306.5*	1307.2	1310.6	1313.3	1312.6
5°	1323.6	1325.0	1322.9	1322.2	1319.5	*1318.8*	1318.8	1322.2	1324.3	1322.9
7.5°	1335.9	1338.0	1334.5	1333.9	1332.5	*1331.1*	1330.4	1333.9	1335.9	1335.9
10°	1347.6	1349.6	1346.9	1344.8	1343.5	*1343.5*	1342.1	1344.8	1348.2	1347.6
12.5°	1359.9	1361.3	1358.5	1357.1	1357.1	*1359.2*	1357.1	1358.5	1361.3	1359.9
15°	1374.9	1375.6	1374.9	1377.0	1380.4	*1387.3*	1381.1	1379.7	1381.1	1377.7
17.5°	1395.5	1396.9	1399.6	1404.4	1409.2	*1421.5*	1410.6	1407.1	1407.1	1400.3
20°	1420.8	1422.9	1427.0	1435.2	1441.4	*1453.0*	1442.1	1437.3	1435.2	1426.3
22.5°	1447.5	1451.0	1457.1	1468.1	1479.0	*1490.0*	1479.0	1470.8	1464.6	1453.0
25°	1478.3	1482.5	1492.0	1509.8	1524.9	*1540.7*	1527.6	1511.2	1498.9	1482.5
27.5°	1522.2	1527.0	1538.6	1560.5	1579.7	*1593.4*	1581.1	1559.8	1542.7	1522.9
30°	1583.8	1588.6	1602.3	1625.6	1638.6	*1647.5*	1639.3	1622.8	1602.3	1579.7
32.5°	1663.2	1669.4	1684.4	1706.4	1709.1	*1710.5*	1707.7	1699.5	1684.4	1657.1
35°	1763.9	1770.7	1787.8	1805.6	1802.9	*1805.6*	1801.5	1798.8	1787.8	1756.3
37.5°	1887.1	1895.3	1913.2	1926.8	1920.0	*1916.6*	1917.3	1917.9	1911.8	1876.9
40°	2030.2	2041.2	2054.2	2068.6	2056.9	*2046.7*	2053.5	2059.0	2053.5	2017.9
42.5°	2177.5	2193.2	2206.9	2227.4	2217.9	*2204.8*	2214.4	2220.6	2209.0	2170.6
45°	2341.1	2356.2	2374.0	2404.8	2397.9	*2384.2*	2397.9	2399.3	2379.5	2334.3
47.5°	2510.2	2526.0	2552.7	2593.8	2591.0	*2576.0*	2593.8	2584.2	2558.9	2504.8
50°	2670.5	2692.4	2733.5	2791.0	2796.5	*2778.0*	2801.9	2783.4	2741.0	2673.2
52.5°	2821.1	2844.4	2909.4	2987.5	3007.4	*2983.4*	3015.6	2983.4	2919.7	2832.8
55°	2979.3	3005.3	3082.7	3184.7	3224.4	*3206.6*	3236.7	3188.1	3097.7	2992.3
57.5°	3165.5	3181.3	3273.7	3394.9	3462.0	*3466.1*	3479.8	3397.7	3288.1	3168.3
60°	3367.5	3389.4	3490.1	3635.3	3741.4	*3775.6*	3761.3	3639.4	3512.0	3374.4
62.5°	3626.4	3650.3	3770.8	3944.8	4112.5	*4197.4*	4141.3	3964.6	3807.1	3642.1
65°	3840.7	3867.4	4085.1	4395.3	4700.7	*4871.2*	4730.2	4404.9	4121.4	3888.6
67.5°	3685.2	3718.1	4059.8	4629.5	5388.9	*5897.6*	5414.9	4699.3	4144.0	3828.4
70°	*3221.0*	*3251.8*	*3650.3*	*4346.7*	*5582.6*	*6697.4*	*5699.1*	*4474.7*	*3663.3*	*3310.0*
72.5°	2138.4	2237.7	2641.0	3476.4	4984.9	*6197.5*	5034.2	3405.9	2450.0	2133.6
75°	709.4	788.8	1064.1	1802.2	3338.8	*4635.0*	3178.5	1594.7	842.9	606.7
77.5°	178.7	206.1	284.2	515.6	1331.8	*2639.0*	1199.0	421.1	229.4	160.2
80°	87.0	95.9	136.9	171.9	333.5	*838.8*	312.9	161.6	108.2	83.5
82.5°	47.9	48.6	77.4	97.2	123.9	*217.1*	128.7	94.5	62.3	50.7
85°	29.4	28.8	41.1	52.0	52.0	*77.4*	61.6	52.0	35.6	31.5
87.5°	11.6	11.6	15.1	16.4	14.4	*19.9*	15.7	17.1	13.7	13.0
90°	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

(END C

90°
1306.5
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1426.3
1452.3
1481.8
1522.2
1579.7
1657.7
1756.3
1876.9
2017.9
2173.3
2339.1
2501.3
2671.8
2824.5
2977.9
3151.8
3352.5
3613.3
3850.3
3781.1
3262.8
2064.5
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