

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: P943549

Luminaire Tested: **GALN-SB8A-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31175 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

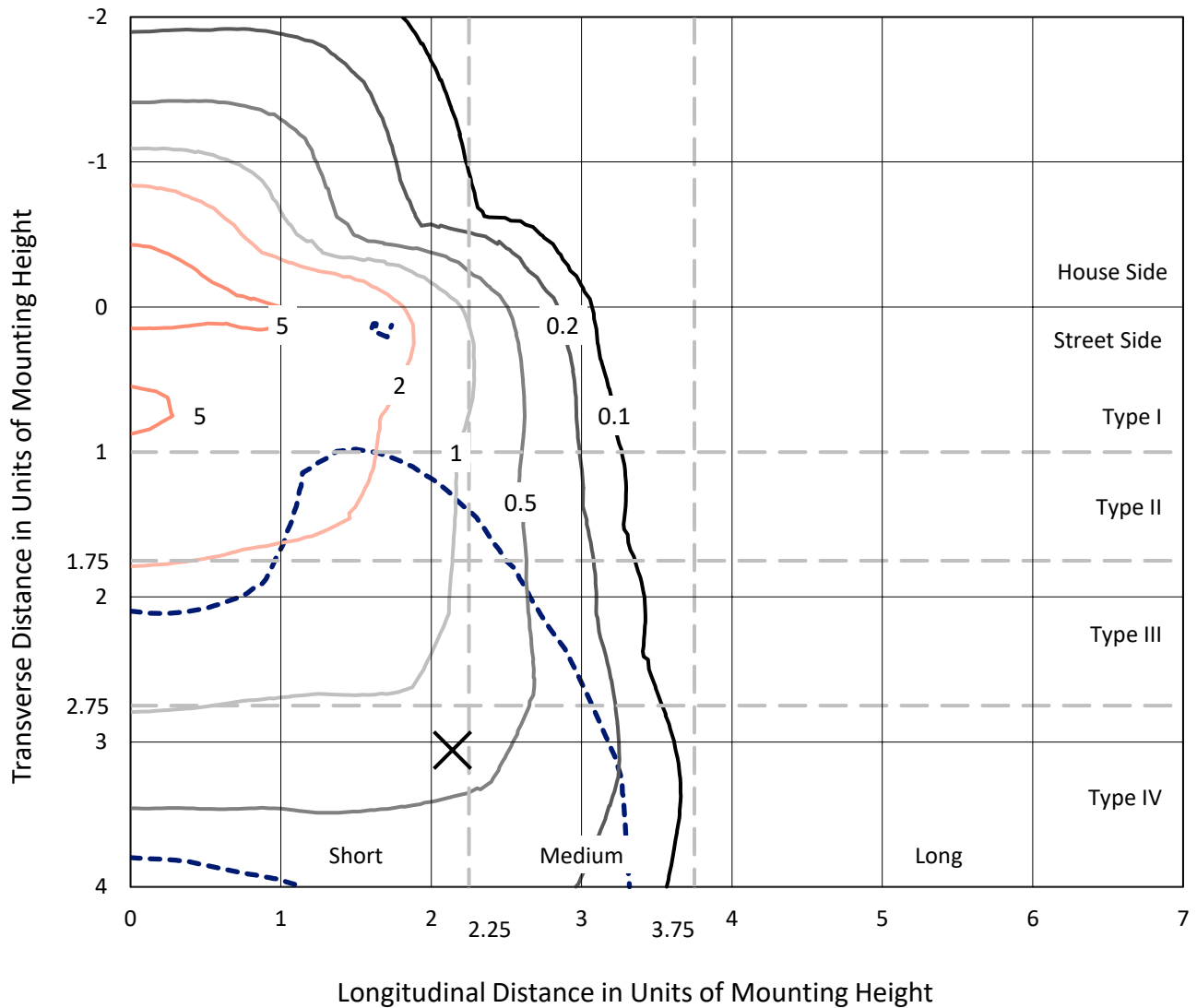
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

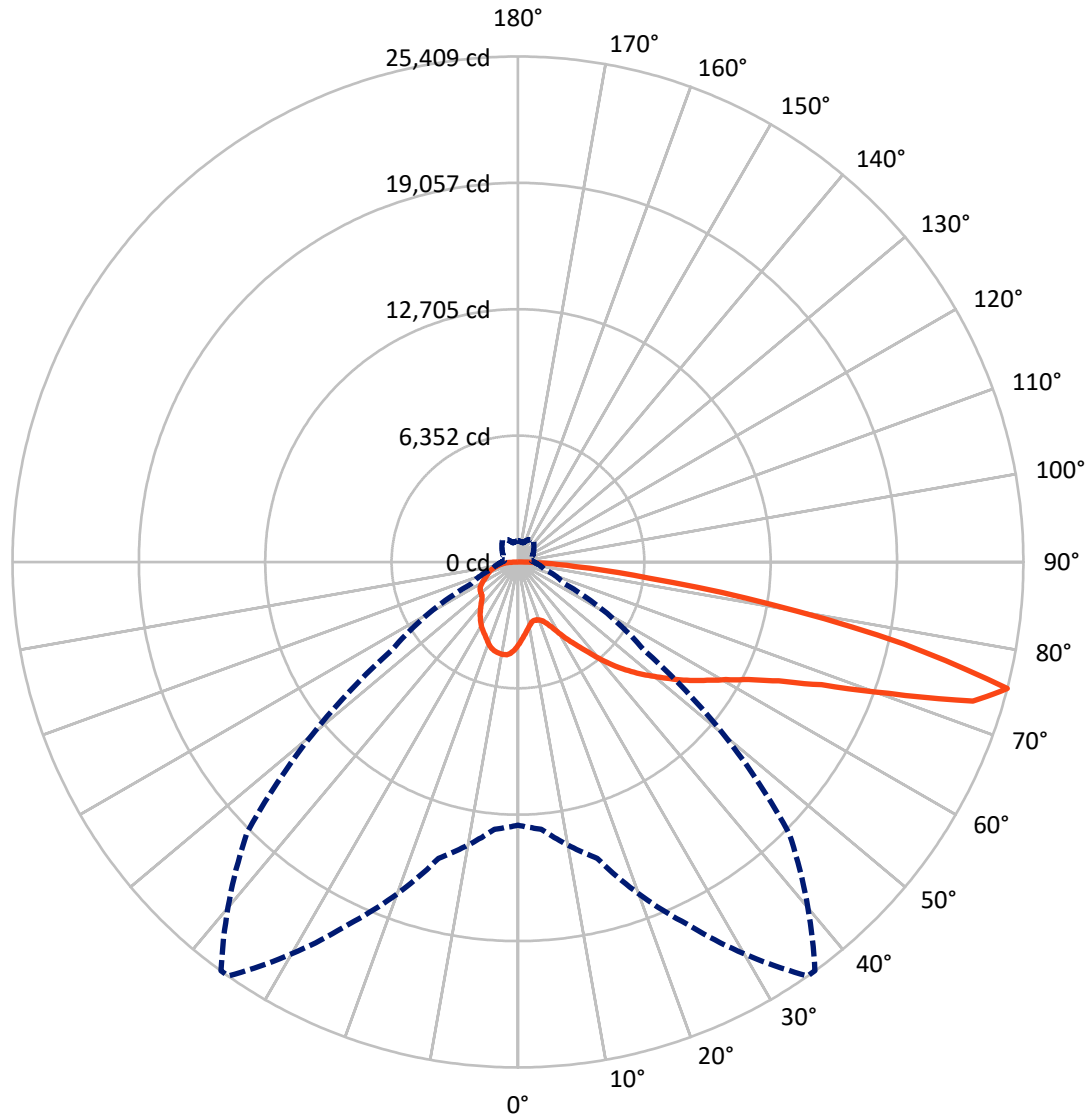
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7418.9	0.0	7418.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	23756.1	0.0	23756.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	31175.0	0.0	31175.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.3	1.3
10°-20°	1134.5	3.6
20°-30°	1905.2	6.1
30°-40°	2960.9	9.5
40°-50°	4394.8	14.1
50°-60°	6067.2	19.5
60°-70°	7360.9	23.6
70°-80°	6083.2	19.5
80°-90°	875.0	2.8
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°	31175.0	100.0
0°-180°	31175.0	100.0



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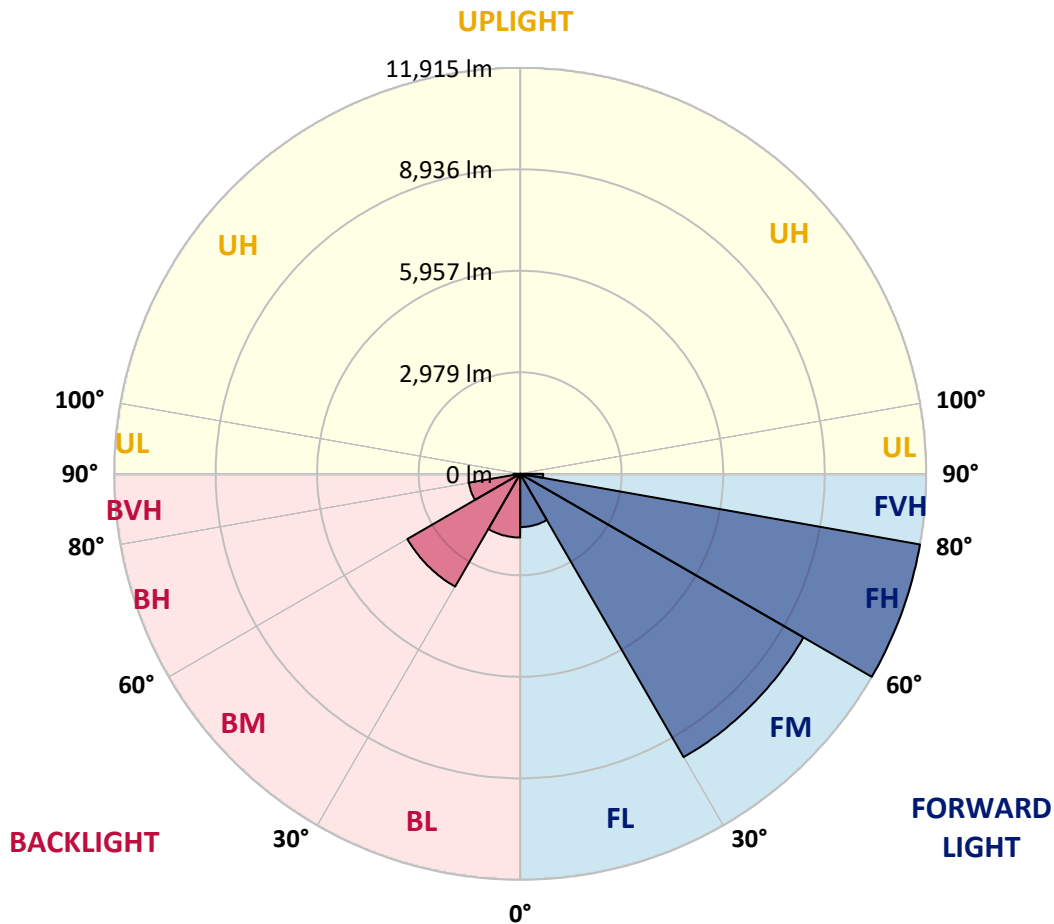
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1563.4	5.0			
FM (30°-60°)	9600.2	30.8			
FH (60°-80°)	11914.6	38.2			G4/12000
FVH (80°-90°)	677.9	2.2			G4/750
BL (0°-30°)	1869.7	6.0	B3/2500		
BM (30°-60°)	3822.7	12.3	B3/5000		
BH (60°-80°)	1529.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	197.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3
2.5°	3830.7	3854.3	3864.4	3859.4	3884.6	3881.3	3916.7	3960.5	4021.1	4080.1
5°	3535.8	3561.1	3583.0	3603.2	3652.1	3667.2	3722.8	3807.1	3918.3	4031.3
7.5°	3261.1	3283.0	3316.7	3353.8	3436.3	3451.5	3544.2	3675.7	3830.7	3995.9
10°	3036.9	3058.8	3094.2	3136.4	3239.2	3257.7	3375.7	3550.9	3753.2	3962.2
12.5°	2940.9	2947.6	2967.8	3010.0	3099.3	3111.1	3240.8	3441.4	3677.3	3936.9
15°	2935.8	2949.3	2951.0	2972.9	3047.0	3052.1	3171.7	3370.6	3630.1	3931.8
17.5°	2986.4	2996.5	2981.3	2994.8	3057.1	3065.6	3159.9	3336.9	3615.0	3953.7
20°	3121.2	3129.6	3084.1	3065.6	3111.1	3117.8	3210.5	3358.8	3630.1	3999.2
22.5°	3407.7	3412.7	3301.5	3225.7	3229.0	3232.4	3313.3	3448.1	3689.1	4081.8
25°	3854.3	3850.9	3674.0	3527.3	3443.1	3424.5	3478.5	3593.1	3788.6	4191.4
27.5°	4376.7	4351.5	4174.5	3955.4	3771.7	3744.8	3733.0	3781.8	3930.1	4336.3
30°	4966.6	4943.0	4752.6	4466.1	4211.6	4167.8	4056.5	4031.3	4140.8	4533.5
32.5°	5613.8	5598.6	5371.1	5023.9	4683.5	4632.9	4445.8	4378.4	4464.4	4831.8
35°	6156.4	6142.9	5954.2	5596.9	5180.6	5118.3	4927.8	4852.0	4895.8	5214.3
37.5°	6646.8	6640.1	6478.3	6196.9	5767.1	5691.3	5477.2	5452.0	5443.5	5718.2
40°	7101.9	7085.0	6916.5	6768.2	6449.7	6380.6	6191.8	6169.9	6105.9	6338.4
42.5°	7605.8	7562.0	7317.6	7248.5	7162.6	7105.3	6992.3	6995.7	6854.1	7037.8
45°	8017.0	7991.7	7740.6	7700.2	7792.9	7769.3	7867.0	7892.3	7617.6	7770.9
47.5°	8458.6	8435.0	8222.6	8194.0	8445.1	8451.8	8797.3	8805.7	8362.5	8532.7
50°	9002.9	8969.2	8758.5	8793.9	9075.4	9100.7	9732.6	9675.3	9048.4	9306.3
52.5°	9361.9	9382.1	9336.6	9393.9	9778.1	9801.7	10652.8	10506.2	9727.6	10069.7
55°	9626.5	9666.9	9808.5	9939.9	10519.7	10543.3	11520.8	11296.6	10290.5	10777.5
57.5°	9966.9	9909.6	10174.2	10430.4	11224.1	11286.5	12365.1	12058.4	10789.3	11387.6
60°	10455.6	10415.2	10620.8	11000.0	12012.9	12112.3	13258.3	12744.3	11155.0	11871.3
62.5°	11446.6	11345.5	11377.5	11712.9	13007.2	13138.6	14266.1	13342.6	11337.1	12060.1
65°	12928.0	12754.4	12592.6	12825.2	14407.7	14537.5	15403.7	13812.8	11269.6	11694.3
67.5°	14793.6	14621.7	14422.8	14641.9	16470.5	16573.3	16807.6	14077.4	10738.8	10285.4
70°	16332.3	16268.3	16505.9	17407.5	19765.3	19768.6	18607.5	13858.3	9284.4	7292.3
72.5°	16128.4	16089.6	17341.8	20129.3	23917.9	23828.5	20311.3	12199.9	6254.2	3289.7
75°	13231.3	13482.4	15422.2	20080.4	25409.4	25397.6	19268.1	7755.8	2586.9	1363.4
77.5°	7095.1	7492.9	10012.4	14825.6	19836.1	20134.4	13546.5	2713.3	1110.6	873.0
80°	2313.9	2661.1	3990.8	7548.5	12889.2	12833.6	5805.9	1065.1	760.1	618.5
82.5°	982.5	1023.0	1783.1	3564.4	6614.8	6512.0	1848.8	611.8	534.2	423.0
85°	384.2	429.8	787.0	1648.2	2865.0	2802.7	667.4	303.4	342.1	276.4
87.5°	126.4	153.4	281.4	564.6	891.5	859.5	163.5	104.5	148.3	126.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4154.3	0°	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3
4166.1	2.5°	4189.7	4216.6	4248.7	4295.8	4336.3	4370.0	4405.4	4427.3	4435.7	4461.0
4172.8	5°	4220.0	4279.0	4358.2	4435.7	4511.6	4557.1	4597.5	4617.7	4636.3	4649.8
4191.4	7.5°	4270.6	4346.4	4471.1	4572.2	4636.3	4673.4	4700.3	4693.6	4700.3	4703.7
4211.6	10°	4314.4	4420.6	4568.9	4664.9	4713.8	4715.5	4708.7	4685.2	4673.4	4675.0
4241.9	12.5°	4366.6	4484.6	4644.7	4725.6	4739.1	4702.0	4673.4	4632.9	4617.7	4611.0
4287.4	15°	4437.4	4572.2	4727.3	4757.6	4723.9	4676.7	4627.9	4562.1	4528.4	4501.5
4364.9	17.5°	4523.4	4671.7	4791.3	4769.4	4696.9	4619.4	4540.2	4440.8	4371.7	4343.0
4471.1	20°	4643.0	4776.2	4840.2	4744.1	4634.6	4516.6	4381.8	4260.5	4196.4	4167.8
4605.9	22.5°	4788.0	4916.0	4887.4	4700.3	4545.3	4356.5	4188.0	4098.7	4066.6	4046.4
4779.5	25°	4961.5	5071.1	4921.1	4636.3	4398.6	4144.2	4014.4	3985.7	3970.6	3955.4
4991.9	27.5°	5187.4	5246.4	4946.4	4541.9	4169.4	3918.3	3871.1	3876.2	3871.1	3845.9
5286.8	30°	5485.7	5473.9	4970.0	4388.5	3906.5	3714.4	3717.8	3739.7	3743.1	3726.2
5698.0	32.5°	5878.3	5758.7	4981.8	4189.7	3655.4	3535.8	3539.1	3562.7	3579.6	3550.9
6235.6	35°	6353.6	6090.7	4963.2	3940.2	3461.6	3365.6	3340.3	3347.0	3352.1	3325.1
6887.8	37.5°	6908.1	6463.1	4880.6	3663.9	3301.5	3198.7	3144.8	3099.3	3072.3	3047.0
7626.0	40°	7516.5	6869.3	4729.0	3394.2	3122.9	3021.8	2940.9	2854.9	2763.9	2730.2
8408.0	42.5°	8153.5	7287.3	4545.3	3136.4	2917.3	2834.7	2748.7	2624.0	2487.5	2418.4
9220.3	45°	8814.2	7715.3	4364.9	2881.9	2706.6	2671.2	2571.8	2421.8	2273.5	2185.8
10034.3	47.5°	9461.3	8119.8	4100.3	2625.7	2509.4	2548.2	2470.7	2332.5	2167.3	2029.1
10841.6	50°	10079.8	8499.0	3667.2	2366.2	2349.3	2511.1	2437.0	2238.1	2049.3	1872.4
11633.7	52.5°	10693.3	8805.7	3112.8	2130.2	2263.4	2501.0	2393.1	2174.0	1943.2	1757.8
12378.6	55°	11214.0	8964.1	2578.5	1928.0	2138.7	2415.0	2340.9	2098.2	1793.2	1596.0
12889.2	57.5°	11510.6	8836.1	2133.6	1729.1	1966.8	2273.5	2251.6	1936.4	1614.5	1462.8
12988.7	60°	11382.6	8317.0	1769.6	1555.5	1803.3	2120.1	2096.5	1776.3	1478.0	1334.8
12456.1	62.5°	10676.4	7327.7	1481.4	1403.9	1655.0	1963.4	1941.5	1653.3	1373.5	1235.3
11042.1	65°	9254.0	5960.9	1257.2	1277.5	1505.0	1774.6	1806.6	1550.5	1290.9	1156.1
8542.8	67.5°	7058.1	4317.8	1082.0	1167.9	1358.4	1589.2	1681.9	1476.3	1221.8	1093.8
4943.0	70°	4022.8	2452.1	933.7	1061.7	1228.6	1417.3	1585.9	1417.3	1147.7	1041.5
1852.2	72.5°	1525.2	1125.8	807.3	955.6	1103.9	1272.4	1479.7	1324.7	1061.7	982.5
957.3	75°	814.0	685.9	679.2	830.9	960.6	1130.8	1346.6	1233.6	997.7	1038.1
662.3	77.5°	554.5	485.4	567.9	711.2	803.9	974.1	1205.0	1095.4	864.6	861.2
458.4	80°	384.2	343.8	461.8	573.0	621.9	819.1	1051.6	940.4	704.5	657.3
283.1	82.5°	230.9	224.1	345.5	428.1	439.9	632.0	871.3	788.7	576.4	502.2
168.5	85°	126.4	133.1	220.8	251.1	256.2	441.6	682.5	610.1	443.2	372.5
60.7	87.5°	35.4	45.5	80.9	99.4	123.0	229.2	406.2	362.3	222.5	155.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
4154.3
4459.3
4653.1
4708.7
4678.4
4607.6
4509.9
4344.7
4164.4
4049.8
3955.4
3850.9
3734.6
3564.4
3343.6
3063.9
2745.4
2426.8
2179.1
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1857.2
1737.6
1579.1
1442.6
1314.5
1213.4
1134.2
1073.5
1028.0
969.1
1071.9
793.8
628.6
505.6
375.8
155.0
0.0

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