

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: P944356

Luminaire Tested: **GALN-SB9B-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40225 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

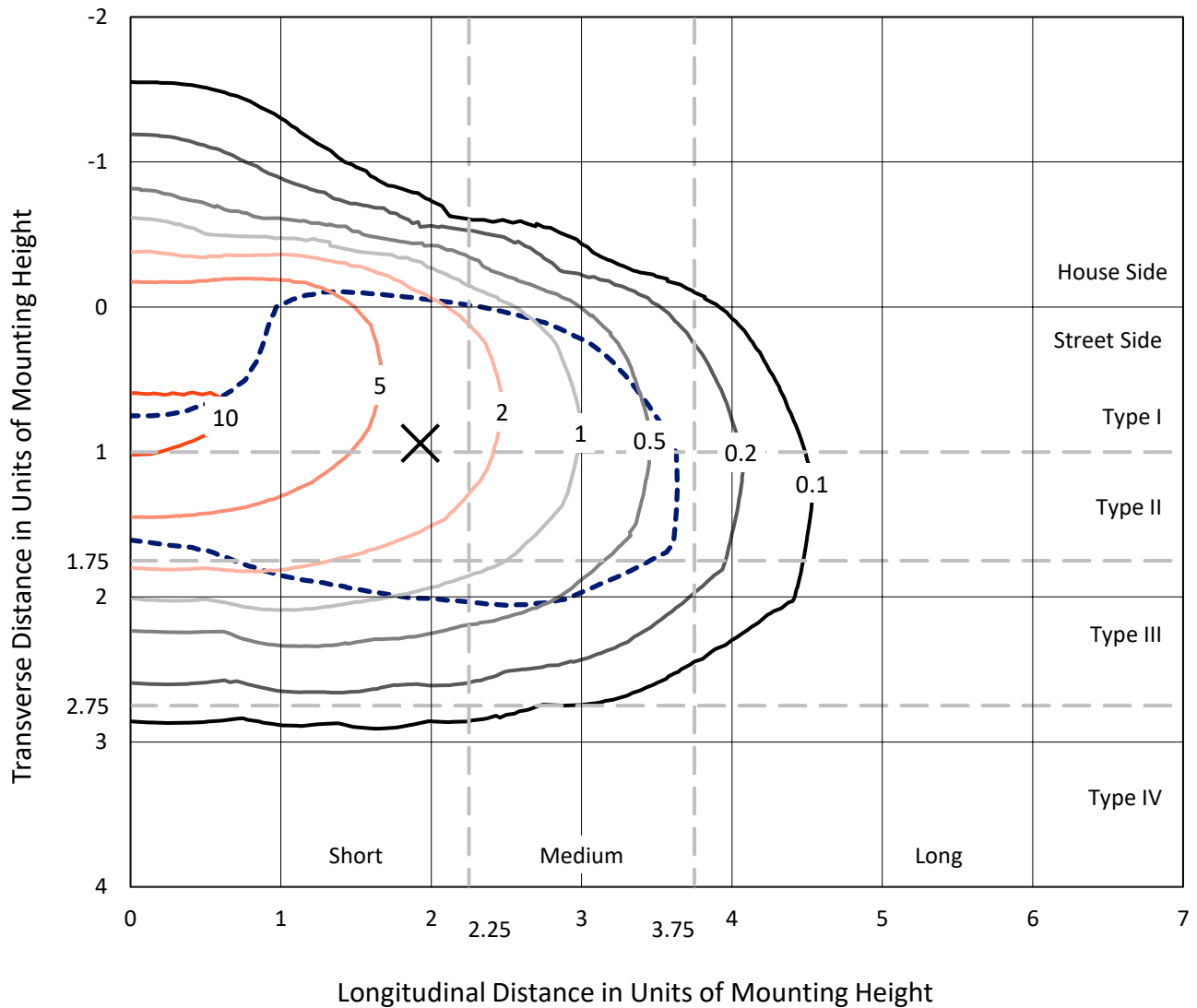
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

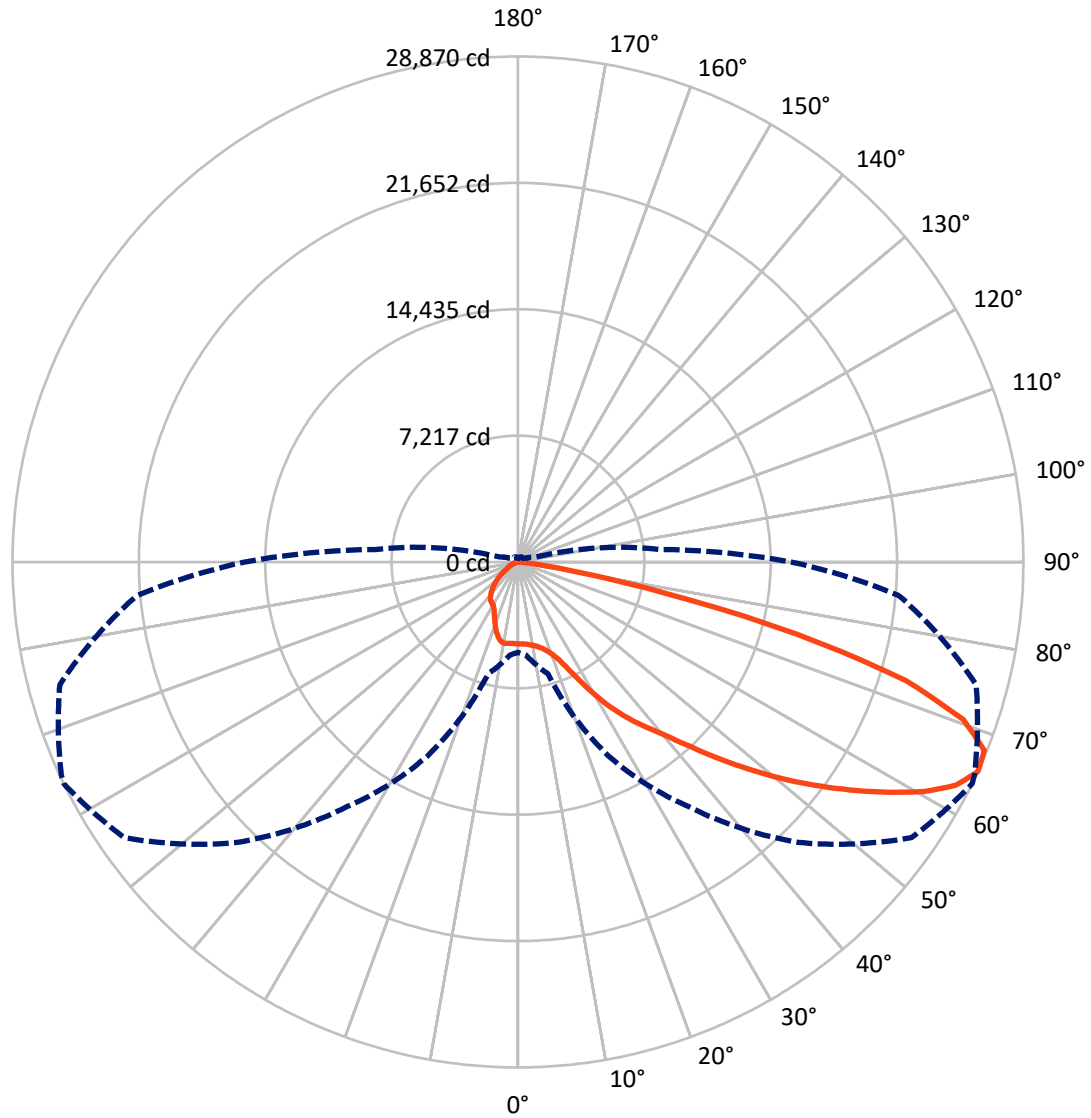
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5379.3	0.0	5379.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	34845.7	0.0	34845.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	40225.0	0.0	40225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	1.1
10°-20°	1170.8	2.9
20°-30°	2218.5	5.5
30°-40°	4489.1	11.2
40°-50°	7647.3	19.0
50°-60°	10399.7	25.9
60°-70°	9765.9	24.3
70°-80°	3912.6	9.7
80°-90°	189.6	0.5
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°	40225.0	100.0
0°-180°	40225.0	100.0

Coefficient of Utilization



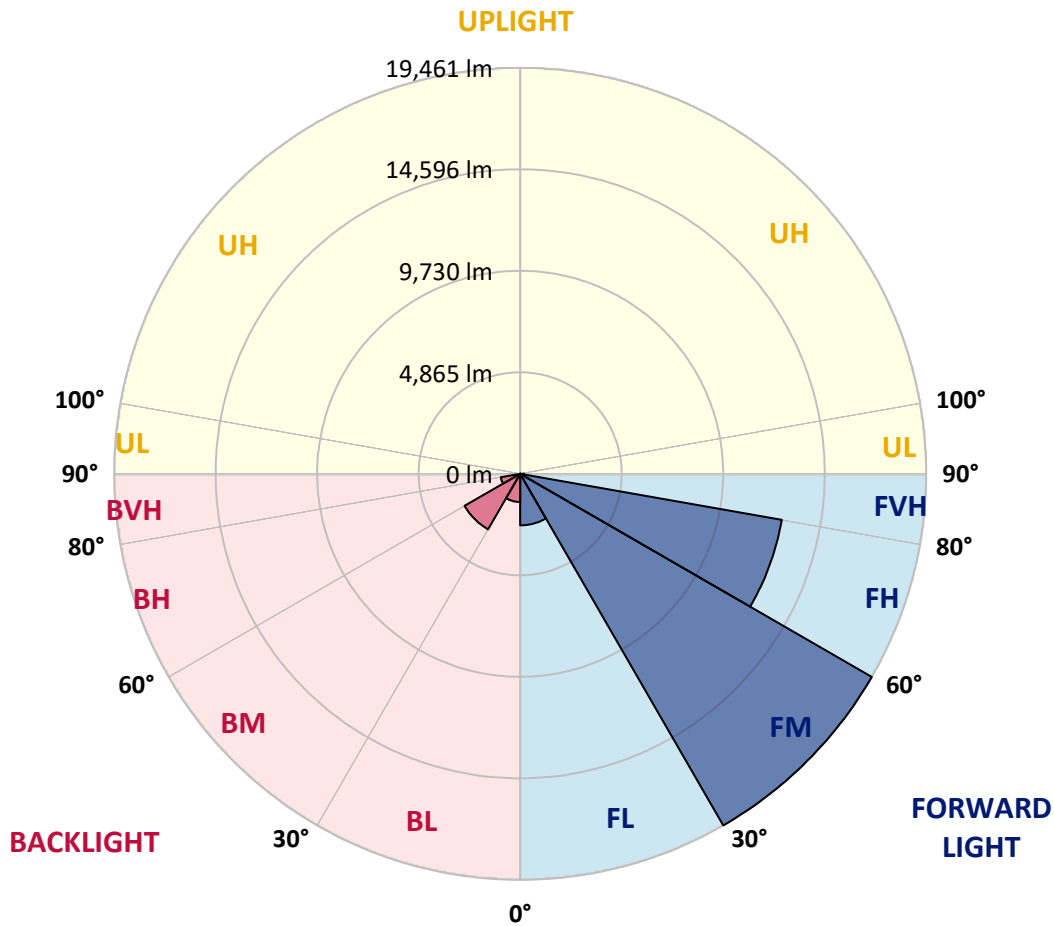
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2470.3	6.1			
FM (30°-60°)	19460.8	48.4			
FH (60°-80°)	12734.3	31.7			G5
FVH (80°-90°)	180.3	0.4			G2/225
BL (0°-30°)	1350.6	3.4	B3/2500		
BM (30°-60°)	3075.3	7.6	B3/5000		
BH (60°-80°)	944.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6
2.5°	4662.4	4694.8	4686.7	4678.6	4675.9	4681.3	4684.0	4681.3	4681.3	4681.3
5°	4573.4	4600.4	4600.4	4619.3	4646.2	4678.6	4702.9	4708.2	4713.6	4721.7
7.5°	4403.5	4425.1	4441.3	4503.3	4570.7	4657.0	4729.8	4767.6	4773.0	4802.6
10°	4287.6	4314.5	4341.5	4406.2	4503.3	4632.7	4756.8	4848.5	4862.0	4932.1
12.5°	4282.2	4309.2	4344.2	4414.3	4527.6	4665.1	4816.1	4948.2	4972.5	5075.0
15°	4338.8	4371.2	4403.5	4489.8	4611.2	4778.4	4940.2	5104.6	5128.9	5274.5
17.5°	4454.8	4497.9	4522.2	4608.5	4737.9	4924.0	5137.0	5325.8	5347.3	5517.2
20°	4684.0	4735.2	4743.3	4813.4	4940.2	5139.7	5393.2	5627.8	5654.8	5848.9
22.5°	5158.6	5231.4	5166.7	5201.7	5315.0	5514.5	5789.6	6086.2	6124.0	6345.1
25°	5994.5	6097.0	5929.8	5870.5	5919.0	6126.7	6471.8	6846.6	6889.8	7067.8
27.5°	7636.7	7504.6	7251.1	7003.0	6857.4	6976.1	7364.4	7828.2	7882.1	8054.7
30°	9440.8	9324.8	8982.3	8432.2	8087.1	8068.2	8426.8	8944.6	9006.6	9171.1
32.5°	11247.5	11136.9	10764.8	10087.9	9489.3	9192.7	9440.8	10015.1	10047.5	10152.7
35°	13024.5	12911.3	12539.1	11846.1	11110.0	10435.8	10387.3	11034.4	11045.2	11155.8
37.5°	14812.4	14718.0	14321.6	13642.1	12916.7	11986.3	11536.0	11999.8	12013.3	12121.2
40°	16087.9	16128.3	15856.0	15330.1	14707.2	13690.6	12825.0	13027.2	12946.3	13127.0
42.5°	17182.7	17263.6	17026.3	16762.0	16400.7	15505.4	14421.4	14386.3	14256.9	14354.0
45°	18129.2	18196.6	17983.6	17921.5	17913.5	17285.1	16166.1	15955.7	15775.1	15756.2
47.5°	18477.0	18606.5	18698.2	18905.8	19310.3	19046.0	17970.1	17643.8	17441.5	17293.2
50°	18609.2	18746.7	19059.5	19663.5	20620.8	20734.1	19766.0	19399.3	19151.2	18881.5
52.5°	18431.2	18676.6	19097.3	20113.9	21502.6	22087.8	21489.1	21168.2	20885.1	20445.6
55°	17382.2	17627.6	18487.8	20108.5	21942.2	23037.0	23117.9	22975.0	22656.8	21963.7
57.5°	15171.0	15535.1	16896.8	19423.5	21934.1	23854.0	24714.3	24816.7	24460.8	23468.4
60°	12107.7	12601.2	14262.3	17905.4	21257.2	24296.3	26113.8	26626.1	26248.6	24951.6
62.5°	8448.4	9020.1	10592.2	15527.0	19709.4	23978.1	27135.8	28082.3	27796.5	26278.3
65°	5153.2	5336.6	6604.0	12218.3	17077.5	22646.0	27451.3	28869.7	28775.3	27090.0
67.5°	3432.8	3586.5	3950.5	8378.3	13256.4	19984.4	26696.2	28732.2	28759.1	26957.8
70°	2068.3	2200.4	2437.7	4872.7	8591.3	15818.2	24358.3	26979.4	27135.8	25191.6
72.5°	852.1	941.1	1156.8	2208.5	4449.4	10039.4	19396.6	23163.7	23527.8	21181.7
75°	482.7	528.5	679.5	1108.3	1930.8	4678.6	11749.0	16443.8	16980.4	14599.3
77.5°	320.9	342.5	439.5	717.3	1086.7	1596.4	5021.1	8567.1	9591.8	7973.8
80°	215.7	234.6	302.0	480.0	706.5	684.9	1599.1	3173.9	3904.7	2739.7
82.5°	145.6	148.3	215.7	315.5	447.6	331.7	471.9	987.0	1240.4	792.8
85°	83.6	80.9	159.1	183.4	199.5	137.5	142.9	296.6	388.3	334.4
87.5°	10.8	16.2	62.0	48.5	27.0	29.7	29.7	51.2	75.5	80.9
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°
4678.6	0°	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6	4678.6
4684.0	2.5°	4684.0	4681.3	4673.2	4665.1	4646.2	4635.4	4640.8	4635.4	4632.7	4635.4
4719.0	5°	4719.0	4710.9	4689.4	4662.4	4624.7	4578.8	4549.1	4506.0	4465.6	4441.3
4813.4	7.5°	4813.4	4805.3	4775.7	4700.2	4578.8	4387.4	4212.1	4058.4	3942.4	3875.0
4964.4	10°	4964.4	4950.9	4905.1	4737.9	4419.7	4001.7	3653.9	3365.3	3176.6	3087.6
5142.4	12.5°	5142.4	5126.2	5045.3	4702.9	4117.7	3465.1	2985.1	2664.2	2489.0	2410.8
5347.3	15°	5352.7	5331.2	5172.1	4535.7	3678.1	2871.9	2432.3	2192.3	2079.1	2009.0
5608.9	17.5°	5614.3	5576.5	5266.4	4284.9	3200.9	2418.8	2092.6	1911.9	1812.1	1744.7
5951.4	20°	5954.1	5892.1	5341.9	3985.6	2761.3	2133.0	1863.3	1712.3	1636.8	1577.5
6436.8	22.5°	6428.7	6339.7	5433.6	3662.0	2451.2	1936.2	1693.5	1582.9	1520.9	1453.5
7113.6	25°	7016.5	6911.4	5546.9	3362.6	2238.2	1766.3	1569.4	1477.7	1404.9	1326.7
8000.8	27.5°	7839.0	7650.2	5681.7	3117.3	2054.8	1620.7	1456.2	1353.7	1270.1	1205.4
9006.6	30°	8755.8	8445.7	5800.4	2968.9	1887.6	1485.8	1307.8	1205.4	1127.2	1081.3
9910.0	32.5°	9624.1	9203.5	5878.6	2904.2	1736.6	1332.1	1146.1	1035.5	976.2	962.7
10794.5	35°	10443.9	9888.4	5870.5	2842.2	1601.8	1178.4	987.0	873.7	827.9	835.9
11746.3	37.5°	11387.7	10619.2	5813.8	2745.1	1491.2	1038.2	849.4	749.7	709.2	711.9
12903.2	40°	12485.2	11463.2	5778.8	2561.8	1369.9	908.8	736.2	655.3	625.6	614.8
14122.0	42.5°	13655.5	12280.3	5784.2	2354.1	1218.9	792.8	658.0	590.6	563.6	555.5
15478.4	45°	14831.2	13059.6	5792.3	2138.4	1059.8	703.8	601.3	544.7	528.5	517.7
16853.7	47.5°	15936.9	13723.0	5641.3	1906.5	903.4	636.4	555.5	517.7	504.3	490.8
18234.3	50°	16966.9	14165.2	5277.2	1636.8	779.3	582.5	520.4	493.5	480.0	466.5
19485.6	52.5°	17767.8	14235.3	4675.9	1359.1	693.0	542.0	498.9	474.6	458.4	444.9
20496.8	55°	18123.8	13795.8	3821.1	1100.2	625.6	507.0	477.3	453.0	434.2	420.7
21292.3	57.5°	18032.1	12870.8	2979.7	884.5	560.9	471.9	450.3	434.2	412.6	391.0
21936.8	60°	17581.8	11633.1	2246.3	736.2	501.6	434.2	420.7	407.2	377.5	345.2
22184.9	62.5°	16802.5	10077.2	1601.8	609.4	436.8	391.0	385.6	374.8	331.7	272.4
21818.1	65°	15610.6	8186.8	1078.6	507.0	374.8	342.5	345.2	326.3	269.7	202.2
20475.2	67.5°	13868.6	5986.4	690.3	415.3	312.8	285.8	288.5	277.7	229.2	172.6
17929.6	70°	11649.3	3964.0	450.3	315.5	250.8	221.1	237.3	240.0	194.2	140.2
13760.7	72.5°	8540.1	2340.6	315.5	234.6	183.4	153.7	194.2	199.5	156.4	105.2
8278.5	75°	4867.3	1111.0	237.3	169.9	113.3	107.9	151.0	151.0	107.9	70.1
3583.8	77.5°	2044.0	463.8	167.2	110.6	64.7	62.0	102.5	94.4	53.9	32.4
873.7	80°	590.6	207.6	89.0	53.9	27.0	24.3	40.4	29.7	13.5	5.4
331.7	82.5°	231.9	91.7	35.1	21.6	10.8	10.8	5.4	0.0	0.0	0.0
188.8	85°	137.5	37.8	16.2	8.1	2.7	0.0	0.0	0.0	0.0	0.0
40.4	87.5°	35.1	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
4678.6
4646.2
4446.7
3877.7
3079.5
2402.7
2011.7
1739.3
1566.7
1442.7
1318.6
1191.9
1073.2
970.8
835.9
722.7
612.1
552.8
517.7
490.8
466.5
442.2
418.0
388.3
339.8
267.0
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164.5
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