

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: P944786

Luminaire Tested: **GALN-SB9D-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944786
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-SB9D-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 900mA 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: 44247 lumens
Efficiency: N/A
Efficacy: 67.2 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

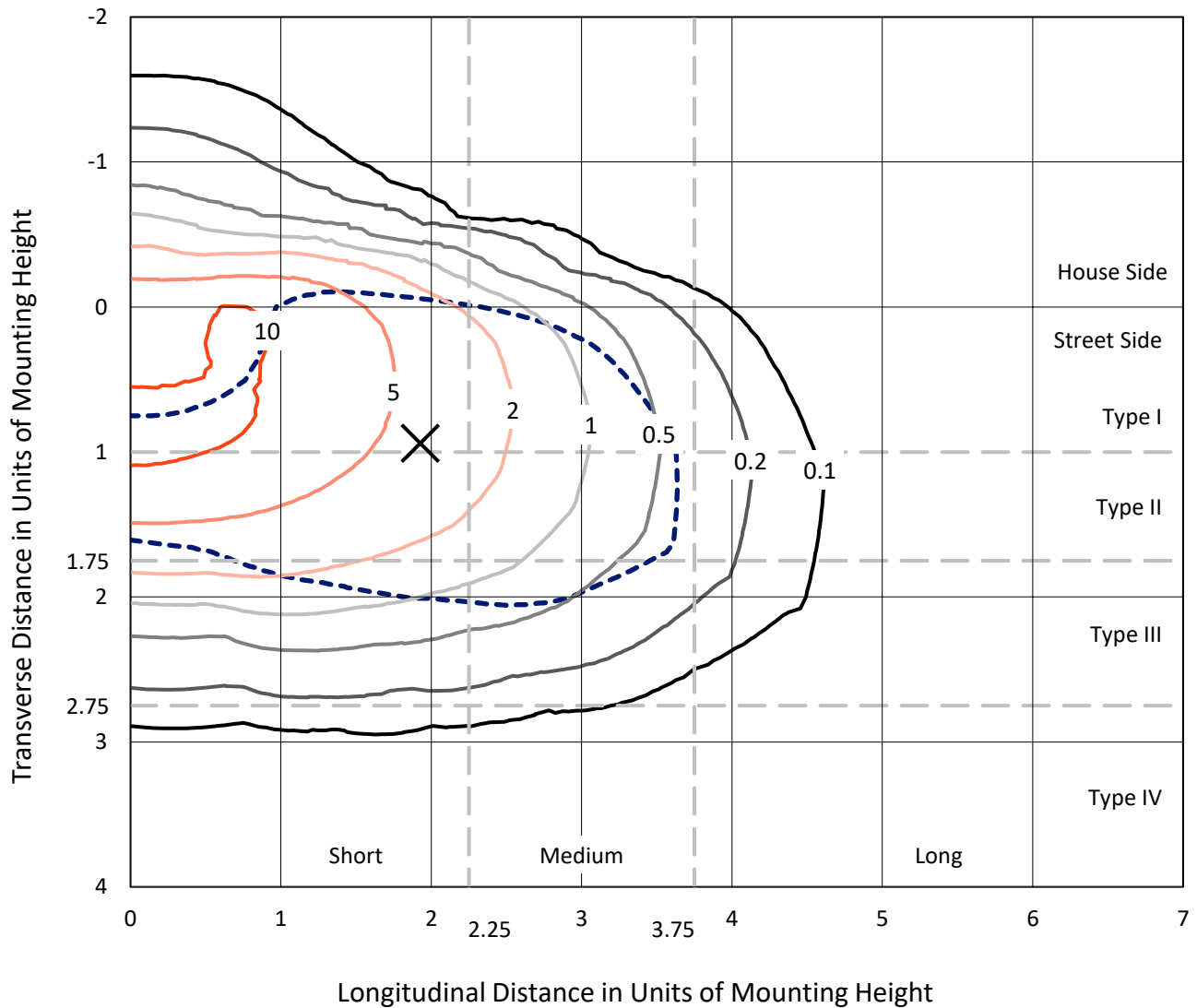
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

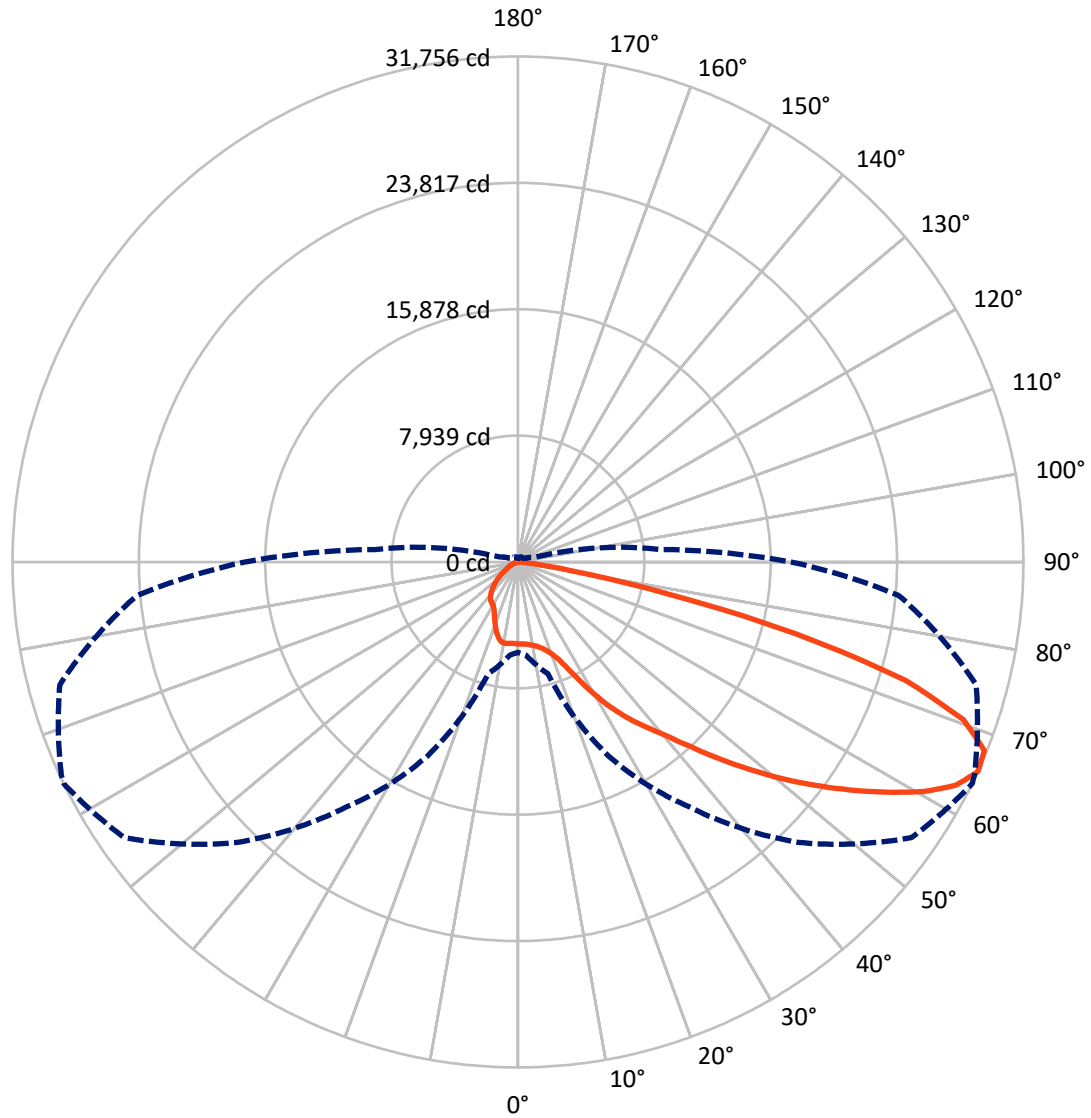
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	5917.2	0.0	5917.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38329.8	0.0	38329.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	44247.0	0.0	44247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.8	1.1
10°-20°	1287.8	2.9
20°-30°	2440.3	5.5
30°-40°	4938.0	11.2
40°-50°	8411.9	19.0
50°-60°	11439.6	25.9
60°-70°	10742.3	24.3
70°-80°	4303.8	9.7
80°-90°	208.5	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°	44247.0	100.0
0°-180°	44247.0	100.0

Coefficient of Utilization



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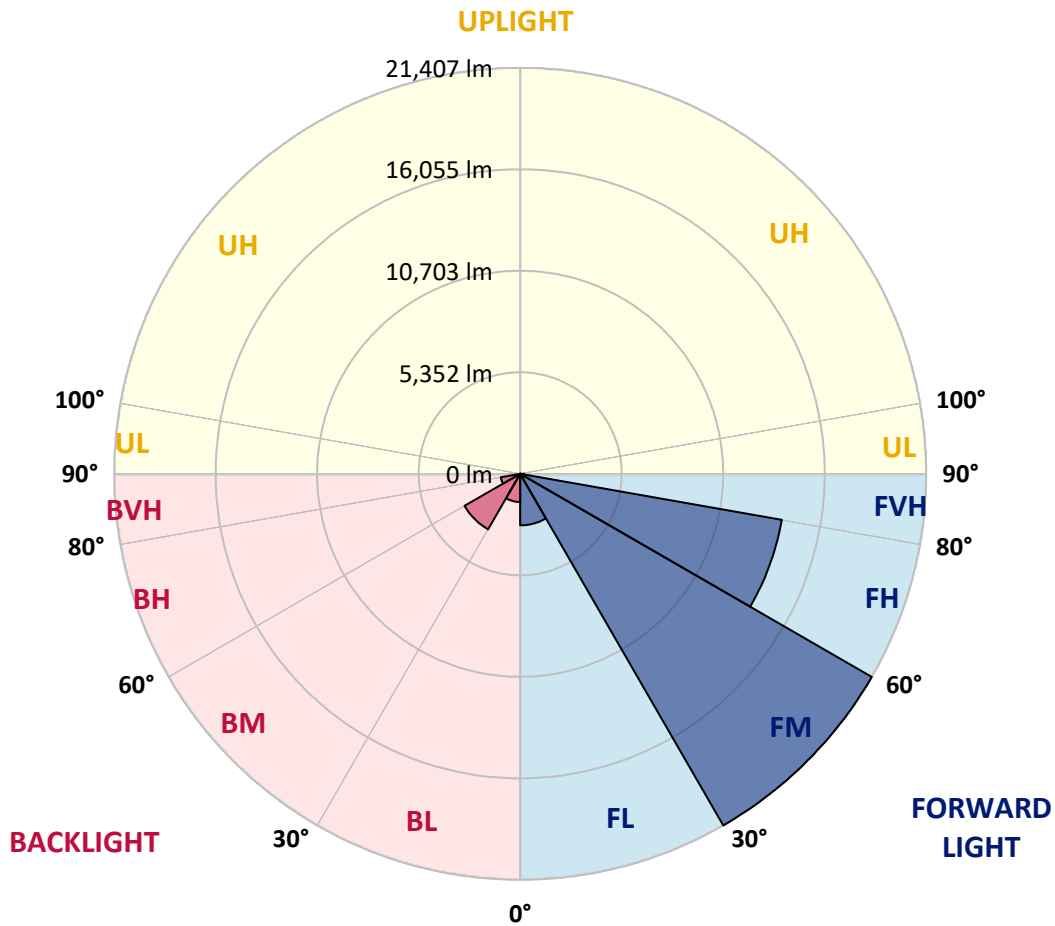
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2717.3	6.1			
FM (30°-60°)	21406.6	48.4			
FH (60°-80°)	14007.6	31.7			G5
FVH (80°-90°)	198.3	0.4			G2/225
BL (0°-30°)	1485.6	3.4	B3/2500		
BM (30°-60°)	3382.8	7.6	B3/5000		
BH (60°-80°)	1038.6	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.2	0.0			G1/100
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°	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4
2.5°	5128.6	5164.2	5155.3	5146.4	5143.4	5149.4	5152.3	5149.4	5149.4	5149.4
5°	5030.7	5060.4	5060.4	5081.1	5110.8	5146.4	5173.1	5179.0	5184.9	5193.8
7.5°	4843.8	4867.6	4885.4	4953.6	5027.7	5122.7	5202.7	5244.3	5250.2	5282.8
10°	4716.3	4745.9	4775.6	4846.8	4953.6	5096.0	5232.4	5333.3	5348.1	5425.2
12.5°	4710.4	4740.0	4778.6	4855.7	4980.3	5131.6	5297.7	5443.0	5469.7	5582.4
15°	4772.6	4808.2	4843.8	4938.8	5072.2	5256.1	5434.1	5615.0	5641.7	5801.9
17.5°	4900.2	4947.6	4974.3	5069.3	5211.6	5416.3	5650.6	5858.3	5882.0	6068.9
20°	5152.3	5208.7	5217.6	5294.7	5434.1	5653.6	5932.4	6190.5	6220.2	6433.7
22.5°	5674.4	5754.5	5683.3	5721.8	5846.4	6065.9	6368.5	6694.8	6736.3	6979.5
25°	6593.9	6706.6	6522.7	6457.5	6510.8	6739.2	7118.9	7531.2	7578.7	7774.5
27.5°	8400.3	8255.0	7976.2	7703.3	7543.1	7673.6	8100.7	8610.9	8670.3	8860.1
30°	10384.7	10257.2	9880.5	9275.4	8895.7	8874.9	9269.4	9838.9	9907.2	10088.1
32.5°	12372.1	12250.5	11841.1	11096.6	10438.1	10111.8	10384.7	11016.5	11052.1	11167.8
35°	14326.8	14202.2	13792.9	13030.6	12220.8	11479.3	11425.9	12137.8	12149.6	12271.2
37.5°	16293.4	16189.6	15753.6	15006.1	14208.2	13184.8	12689.5	13199.7	13214.5	13333.1
40°	17696.4	17740.9	17441.4	16862.9	16177.7	15059.5	14107.3	14329.8	14240.8	14439.5
42.5°	18900.7	18989.7	18728.7	18438.0	18040.5	17055.7	15863.3	15824.8	15682.4	15789.2
45°	19941.9	20016.0	19781.7	19713.5	19704.6	19013.4	17782.5	17551.1	17352.4	17331.6
47.5°	20324.5	20466.9	20567.7	20796.1	21241.1	20950.4	19766.9	19408.0	19185.5	19022.3
50°	20469.9	20621.1	20965.2	21629.7	22682.7	22807.2	21742.4	21339.0	21066.1	20769.4
52.5°	20274.1	20544.0	21006.7	22125.0	23652.6	24296.3	23637.8	23284.8	22973.3	22489.9
55°	19120.2	19390.2	20336.4	22119.1	24136.1	25340.4	25429.4	25272.2	24922.2	24159.8
57.5°	16687.9	17088.4	18586.3	21365.7	24127.2	26239.2	27185.4	27298.1	26906.5	25815.0
60°	13318.3	13861.1	15688.3	19695.7	23382.7	26725.6	28724.8	29288.4	28873.2	27446.4
62.5°	9293.2	9922.0	11651.3	17079.5	21680.1	26375.6	29849.0	30890.2	30575.8	28905.8
65°	5668.4	5870.1	7264.3	13439.9	18785.0	24910.3	30196.1	31756.3	31652.5	29798.6
67.5°	3776.0	3945.1	4345.5	9216.0	14581.9	21982.6	29365.5	31605.0	31634.7	29653.3
70°	2275.1	2420.4	2681.5	5360.0	9450.4	17399.8	26793.8	29677.0	29849.0	27710.4
72.5°	937.3	1035.2	1272.5	2429.3	4894.3	11043.2	21336.0	25479.8	25880.2	23299.6
75°	531.0	581.4	747.5	1219.1	2123.8	5146.4	12923.8	18088.0	18678.3	16059.1
77.5°	353.0	376.7	483.5	789.0	1195.4	1756.0	5523.1	9423.7	10550.8	8771.1
80°	237.3	258.1	332.2	528.0	777.1	753.4	1759.0	3491.2	4295.1	3013.7
82.5°	160.2	163.1	237.3	347.0	492.4	364.8	519.1	1085.6	1364.5	872.1
85°	92.0	89.0	175.0	201.7	219.5	151.3	157.2	326.3	427.1	367.8
87.5°	11.9	17.8	68.2	53.4	29.7	32.6	32.6	56.4	83.1	89.0
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°
5146.4	0°	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4	5146.4
5152.3	2.5°	5152.3	5149.4	5140.5	5131.6	5110.8	5098.9	5104.9	5098.9	5096.0	5098.9
5190.9	5°	5190.9	5182.0	5158.3	5128.6	5087.1	5036.6	5004.0	4956.5	4912.1	4885.4
5294.7	7.5°	5294.7	5285.8	5253.2	5170.1	5036.6	4826.0	4633.2	4464.2	4336.6	4262.5
5460.8	10°	5460.8	5446.0	5395.5	5211.6	4861.6	4401.9	4019.2	3701.8	3494.2	3396.3
5656.6	12.5°	5656.6	5638.8	5549.8	5173.1	4529.4	3811.6	3283.6	2930.6	2737.8	2651.8
5882.0	15°	5887.9	5864.2	5689.2	4989.2	4045.9	3159.0	2675.5	2411.5	2287.0	2209.8
6169.7	17.5°	6175.7	6134.1	5793.0	4713.3	3520.9	2660.7	2301.8	2103.0	1993.3	1919.1
6546.4	20°	6549.4	6481.2	5876.1	4384.1	3037.4	2346.3	2049.7	1883.5	1800.5	1735.2
7080.4	22.5°	7071.5	6973.6	5976.9	4028.1	2696.3	2129.7	1862.8	1741.2	1672.9	1598.8
7824.9	25°	7718.1	7602.4	6101.5	3698.9	2462.0	1942.9	1726.3	1625.5	1545.4	1459.4
8800.8	27.5°	8622.8	8415.2	6249.8	3428.9	2260.3	1782.7	1601.8	1489.0	1397.1	1325.9
9907.2	30°	9631.3	9290.2	6380.3	3265.8	2076.4	1634.4	1438.6	1325.9	1239.9	1189.5
10900.8	32.5°	10586.4	10123.7	6466.4	3194.6	1910.2	1465.3	1260.6	1139.0	1073.8	1058.9
11873.8	35°	11488.2	10877.1	6457.5	3126.4	1761.9	1296.2	1085.6	961.1	910.6	919.5
12920.8	37.5°	12526.3	11681.0	6395.2	3019.6	1640.3	1142.0	934.4	824.6	780.1	783.1
14193.3	40°	13733.6	12609.4	6356.6	2817.9	1506.8	999.6	809.8	720.8	688.2	676.3
15534.1	42.5°	15020.9	13508.1	6362.5	2589.5	1340.7	872.1	723.8	649.6	619.9	611.0
17026.1	45°	16314.2	14365.4	6371.4	2352.2	1165.7	774.2	661.5	599.2	581.4	569.5
18538.9	47.5°	17530.3	15095.1	6205.3	2097.1	993.7	700.0	611.0	569.5	554.7	539.9
20057.6	50°	18663.4	15581.5	5804.9	1800.5	857.2	640.7	572.5	542.8	528.0	513.2
21433.9	52.5°	19544.4	15658.7	5143.4	1495.0	762.3	596.2	548.8	522.1	504.3	489.4
22546.2	55°	19935.9	15175.2	4203.1	1210.2	688.2	557.6	525.0	498.3	477.6	462.7
23421.2	57.5°	19835.1	14157.8	3277.7	972.9	617.0	519.1	495.4	477.6	453.8	430.1
24130.2	60°	19339.7	12796.3	2470.9	809.8	551.7	477.6	462.7	447.9	415.3	379.7
24403.1	62.5°	18482.5	11084.8	1761.9	670.4	480.5	430.1	424.2	412.3	364.8	299.6
23999.7	65°	17171.4	9005.4	1186.5	557.6	412.3	376.7	379.7	358.9	296.6	222.5
22522.5	67.5°	15255.3	6585.0	759.4	456.8	344.1	314.4	317.4	305.5	252.1	189.8
19722.4	70°	12814.1	4360.3	495.4	347.0	275.9	243.2	261.0	264.0	213.6	154.2
15136.6	72.5°	9394.0	2574.7	347.0	258.1	201.7	169.1	213.6	219.5	172.0	115.7
9106.3	75°	5354.0	1222.1	261.0	186.9	124.6	118.6	166.1	166.1	118.6	77.1
3942.1	77.5°	2248.4	510.2	183.9	121.6	71.2	68.2	112.7	103.8	59.3	35.6
961.1	80°	649.6	228.4	97.9	59.3	29.7	26.7	44.5	32.6	14.8	5.9
364.8	82.5°	255.1	100.9	38.6	23.7	11.9	11.9	5.9	0.0	0.0	0.0
207.6	85°	151.3	41.5	17.8	8.9	3.0	0.0	0.0	0.0	0.0	0.0
44.5	87.5°	38.6	8.9	5.9	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>
5146.4
5110.8
4891.3
4265.4
3387.4
2642.9
2212.8
1913.2
1723.4
1586.9
1450.5
1311.1
1180.6
1067.8
919.5
794.9
673.3
608.1
569.5
539.9
513.2
486.5
459.8
427.1
373.7
293.7
216.5
180.9
148.3
109.8
71.2
35.6
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