

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: P953920

Luminaire Tested: **GALN-SB7B-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

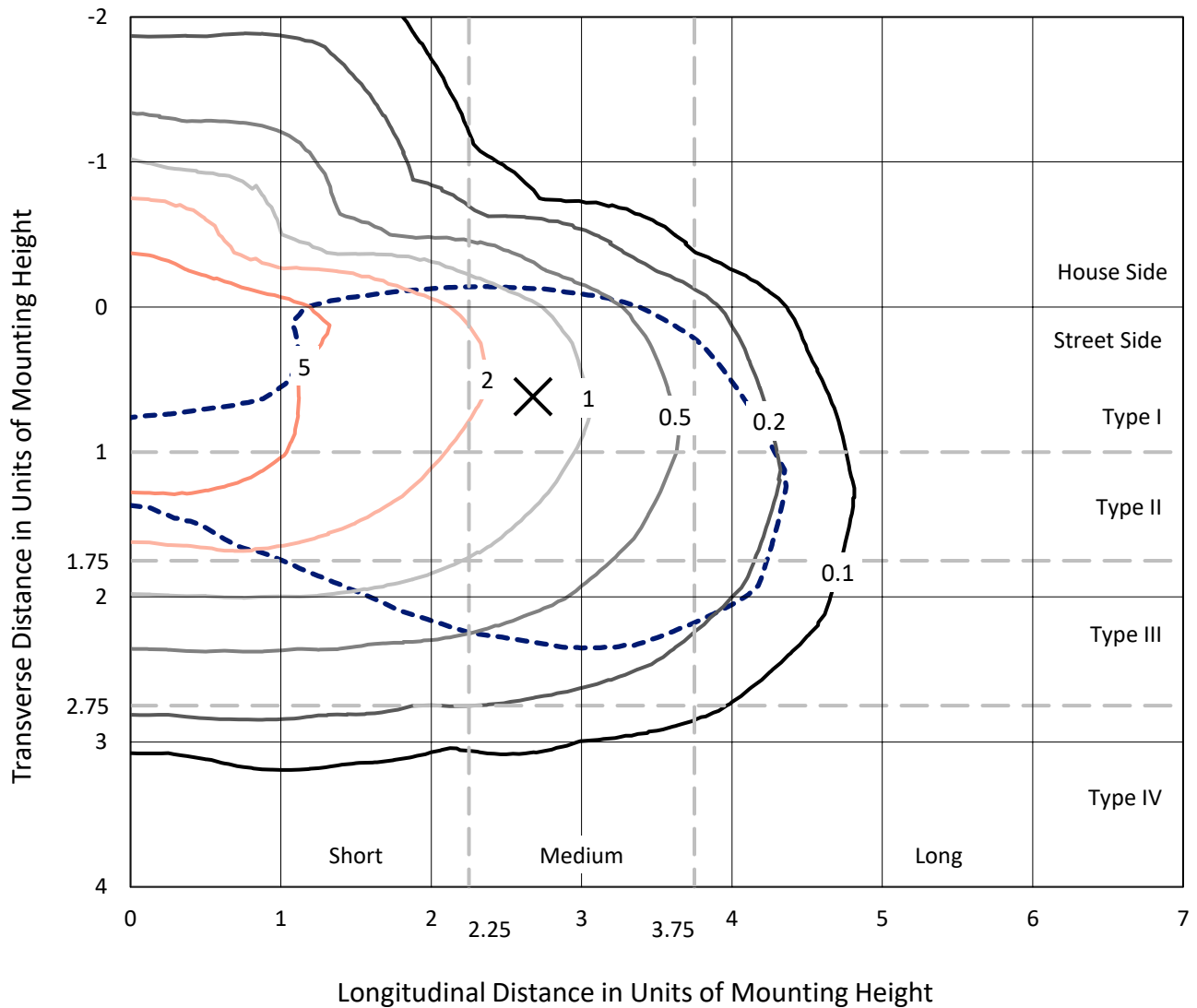
Lumens per Lamp: N/A  
Luminaire Lumens: 35749 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

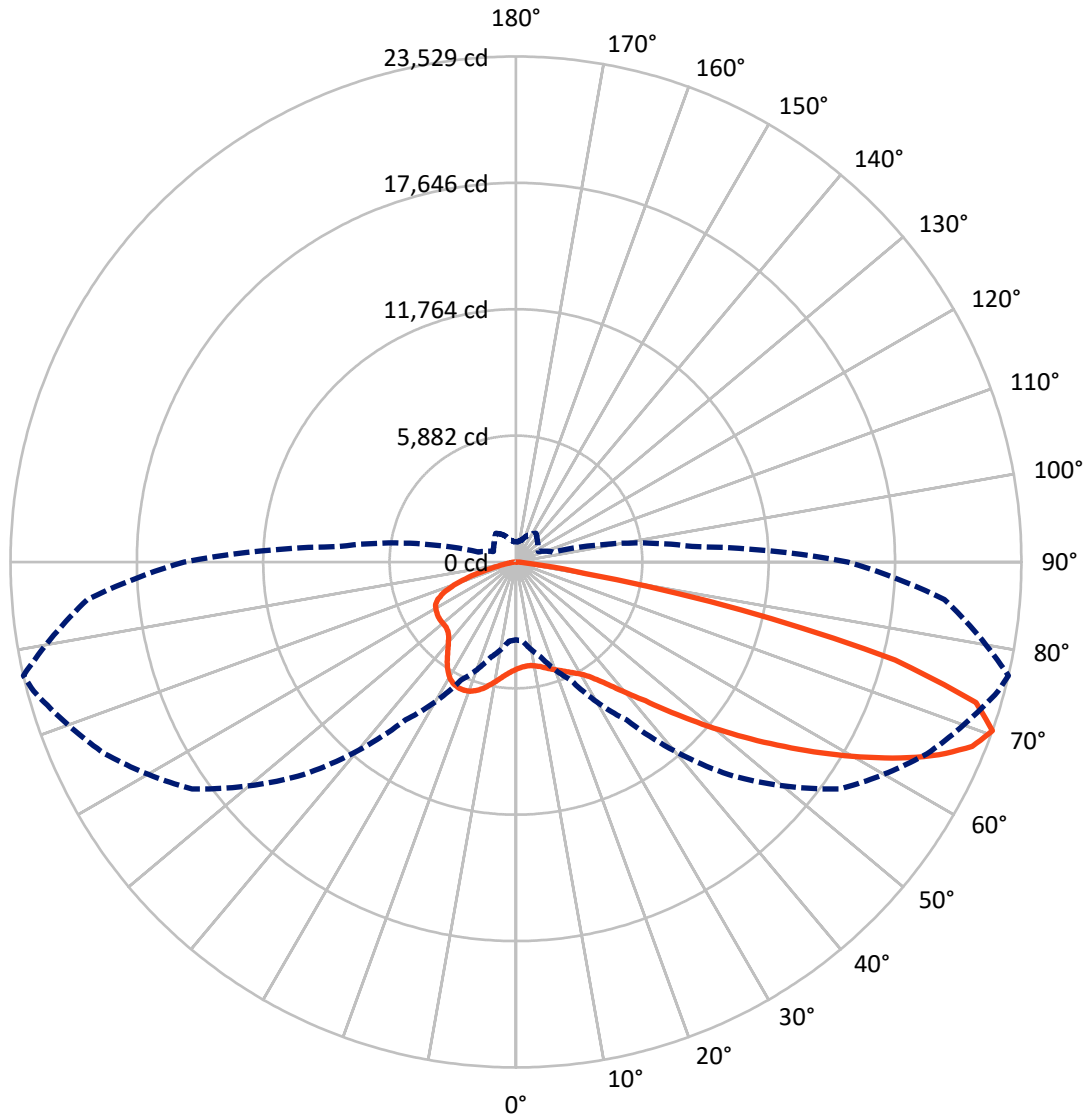
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7828.5	0.0	7828.5
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	27920.5	0.0	27920.5
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	35749.0	0.0	35749.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.7	1.3
10°-20°	1372.8	3.8
20°-30°	2347.7	6.6
30°-40°	3775.3	10.6
40°-50°	5894.2	16.5
50°-60°	7873.2	22.0
60°-70°	8391.7	23.5
70°-80°	5165.9	14.5
80°-90°	452.7	1.3
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°	35749.0	100.0
0°-180°	35749.0	100.0

**Coefficient of Utilization**



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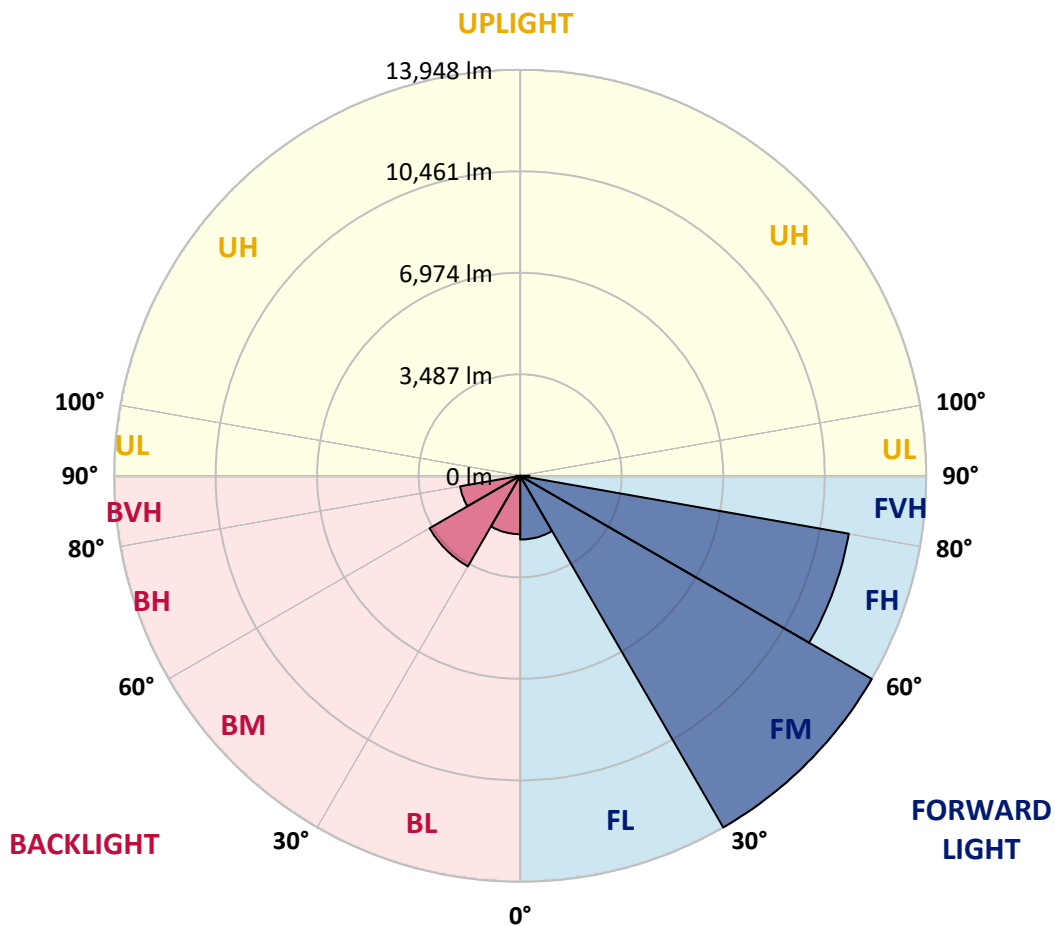
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2190.2	6.1			
FM (30°-60°)	13948.5	39.0			
FH (60°-80°)	11465.3	32.1			G4/12000
FVH (80°-90°)	316.5	0.9			G3/500
BL (0°-30°)	2005.9	5.6	B3/2500		
BM (30°-60°)	3594.2	10.1	B3/5000		
BH (60°-80°)	2092.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	136.1	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3
2.5°	4597.3	4595.5	4619.3	4626.6	4670.6	4701.7	4760.3	4822.5	4903.1	4912.2
5°	4331.9	4331.9	4359.3	4388.6	4445.4	4507.6	4597.3	4705.4	4844.5	4866.5
7.5°	4106.7	4121.3	4145.1	4201.9	4267.8	4357.5	4494.8	4648.6	4831.7	4866.5
10°	3925.4	3941.9	3971.2	4016.9	4115.8	4240.3	4419.7	4617.5	4862.8	4917.7
12.5°	3868.6	3885.1	3901.6	3936.4	4027.9	4174.4	4388.6	4632.1	4937.9	4992.8
15°	4000.5	4020.6	4007.8	3998.6	4046.2	4179.9	4403.3	4685.2	5031.3	5110.0
17.5°	4304.4	4311.7	4282.4	4196.4	4189.0	4260.5	4472.8	4758.5	5148.4	5234.5
20°	4795.1	4782.3	4721.8	4551.6	4454.5	4439.9	4591.8	4868.3	5269.3	5360.8
22.5°	5461.5	5446.9	5326.0	5056.9	4840.8	4698.0	4763.9	5011.1	5404.8	5507.3
25°	6292.7	6272.6	6095.0	5728.8	5393.8	5040.4	4998.3	5199.7	5571.4	5666.6
27.5°	7263.1	7246.6	7054.4	6571.0	6087.7	5509.1	5289.4	5421.2	5745.3	5853.3
30°	8306.7	8354.3	8013.8	7493.8	6882.3	6120.6	5681.2	5694.0	5970.5	6067.5
32.5°	9533.4	9615.8	9205.7	8546.5	7711.7	6785.2	6175.6	6074.9	6298.2	6378.8
35°	10749.1	10842.5	10501.9	9773.2	8812.0	7568.8	6691.9	6512.4	6734.0	6821.9
37.5°	11800.0	11924.5	11748.7	11115.3	9989.3	8513.6	7365.6	7026.9	7270.4	7380.3
40°	12629.4	12819.8	12807.0	12411.5	11377.1	9659.7	8220.6	7662.2	7936.9	8055.9
42.5°	13303.2	13467.9	13610.7	13590.6	12825.3	10961.5	9225.8	8488.0	8696.7	8834.0
45°	13768.2	13944.0	14251.6	14582.9	14218.6	12354.8	10377.4	9467.5	9657.9	9864.8
47.5°	14183.8	14383.4	14782.5	15308.0	15401.3	13753.6	11638.9	10608.1	10782.0	10996.3
50°	14220.4	14392.5	15011.4	15756.5	16241.7	15097.4	12993.7	11887.9	12050.8	12279.7
52.5°	13336.1	13607.1	14687.3	15743.7	16628.0	16221.6	14339.4	13218.9	13402.0	13676.7
55°	10351.8	10749.1	13737.1	15253.0	16490.7	16948.4	15619.2	14634.2	14868.6	15156.0
57.5°	8916.4	9090.3	10904.7	14359.6	15864.6	17137.0	16699.4	16064.1	16441.3	16756.2
60°	8013.8	8158.4	9231.3	12969.9	15040.7	16838.6	17534.3	17397.0	18048.8	18424.1
62.5°	7047.0	7184.4	8160.2	10829.6	13986.1	16342.4	18061.6	18627.4	19696.6	20106.7
65°	6087.7	6204.8	7140.4	9099.5	12645.9	15846.2	18334.4	19691.1	21221.7	21646.5
67.5°	5018.4	5115.5	5999.8	7676.9	11016.4	15167.0	18469.9	20527.8	22549.1	22913.4
70°	3621.5	3696.5	4610.2	6071.2	8971.3	13998.9	18415.0	21121.0	23237.5	23528.6
72.5°	1711.9	1779.6	2852.5	3941.9	6336.7	11724.9	17303.6	20650.5	22538.1	22393.5
75°	913.6	972.2	1638.6	2162.3	3346.8	8037.6	14160.0	17788.8	18925.8	18222.7
77.5°	618.8	664.6	1014.3	1298.1	1528.8	3815.5	9101.3	12316.3	11849.4	10688.7
80°	490.7	538.3	831.2	878.8	739.7	1378.7	3760.6	5701.4	4095.7	3275.4
82.5°	377.2	430.3	699.4	637.1	402.8	565.7	1094.9	1803.4	1049.1	798.3
85°	230.7	287.4	549.3	406.5	227.0	258.2	371.7	501.7	320.4	267.3
87.5°	117.2	164.8	278.3	148.3	102.5	60.4	98.9	98.9	84.2	73.2
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°
4987.3	0°	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3	4987.3
4961.7	2.5°	5005.6	5042.2	5104.5	5163.1	5208.8	5252.8	5296.7	5320.5	5327.9	5357.1
4989.1	5°	5064.2	5132.0	5252.8	5366.3	5437.7	5481.6	5512.8	5531.1	5534.7	5543.9
5064.2	7.5°	5172.2	5280.3	5448.7	5562.2	5615.3	5611.6	5598.8	5553.1	5534.7	5518.3
5174.1	10°	5324.2	5467.0	5673.9	5752.6	5719.7	5631.8	5518.3	5384.6	5322.4	5261.9
5324.2	12.5°	5512.8	5694.0	5897.3	5893.6	5730.6	5505.5	5241.8	5036.7	4906.8	4813.4
5509.1	15°	5741.6	5950.4	6106.0	5981.5	5624.5	5219.8	4833.5	4566.2	4449.0	4346.5
5695.9	17.5°	5977.8	6201.2	6272.6	5954.0	5357.1	4796.9	4359.3	4148.8	4033.4	3978.5
5897.3	20°	6208.5	6430.0	6371.5	5796.6	4950.7	4317.2	3927.2	3811.9	3788.1	3800.9
6093.2	22.5°	6452.0	6649.7	6391.6	5492.6	4432.6	3826.5	3612.3	3616.0	3669.1	3707.5
6298.2	25°	6701.0	6834.7	6338.5	5053.2	3876.0	3465.9	3412.8	3471.3	3575.7	3650.8
6528.9	27.5°	6940.9	6999.4	6223.2	4509.5	3398.1	3207.7	3216.9	3337.7	3495.1	3599.5
6809.0	30°	7211.8	7145.9	6001.6	3897.9	3066.7	2986.2	3063.1	3204.0	3361.5	3454.9
7162.4	32.5°	7517.6	7272.2	5650.1	3332.2	2832.4	2808.6	2934.9	3026.4	3096.0	3123.5
7631.1	35°	7898.4	7449.8	5199.7	2934.9	2621.8	2678.6	2799.4	2753.6	2726.2	2711.5
8260.9	37.5°	8392.7	7689.7	4672.4	2676.7	2451.5	2585.2	2634.6	2491.8	2383.8	2330.7
9024.4	40°	8987.8	8041.2	4165.2	2477.2	2343.5	2504.6	2418.6	2246.5	2109.2	2034.1
9883.1	42.5°	9648.7	8409.2	3738.7	2327.0	2283.1	2438.7	2259.3	2054.2	1832.7	1808.9
10906.5	45°	10342.6	8788.2	3447.5	2211.7	2253.8	2382.0	2167.8	1836.4	1678.9	1776.0
11933.7	47.5°	11036.5	9136.1	3271.8	2125.6	2239.2	2317.9	2087.2	1715.5	1603.8	1744.8
13034.0	50°	11809.2	9447.3	3193.1	2063.4	2222.7	2292.3	1966.4	1684.4	1525.1	1618.5
14172.8	52.5°	12576.3	9689.0	3134.5	2001.1	2198.9	2272.1	1907.8	1647.8	1429.9	1435.4
15319.0	55°	13341.6	9846.5	3070.4	1918.8	2145.8	2228.2	1902.3	1607.5	1358.5	1332.9
16531.0	57.5°	14158.2	9936.2	2991.7	1827.2	2054.2	2116.5	1896.8	1576.4	1336.5	1294.4
17770.5	60°	14989.4	10068.0	2889.1	1715.5	1931.6	1982.8	1884.0	1565.4	1323.7	1252.3
18938.6	62.5°	15734.6	10113.8	2766.5	1609.3	1774.1	1851.0	1856.5	1556.2	1288.9	1166.3
19909.0	65°	16223.4	9916.0	2552.2	1488.5	1603.8	1715.5	1803.4	1525.1	1226.7	1104.0
20388.7	67.5°	16203.3	9352.1	2217.2	1332.9	1439.1	1565.4	1726.5	1472.0	1151.6	1027.1
20026.1	70°	15448.9	8239.0	1792.4	1151.6	1257.8	1404.3	1627.7	1393.3	1061.9	942.9
17807.1	72.5°	13250.1	6448.4	1301.8	939.2	1047.3	1237.7	1499.5	1298.1	970.4	867.8
13160.4	75°	9465.6	4081.0	882.5	721.4	814.7	1049.1	1340.2	1186.4	886.1	871.5
6591.2	77.5°	4835.3	1949.9	584.1	527.3	567.6	827.6	1126.0	1060.1	899.0	719.5
1874.8	80°	1572.7	719.5	368.0	358.9	377.2	551.1	871.5	869.7	681.1	488.8
454.1	82.5°	501.7	309.4	239.8	230.7	221.5	346.0	607.9	688.4	459.6	309.4
162.9	85°	199.6	184.9	141.0	130.0	93.4	162.9	318.6	457.7	342.4	223.4
42.1	87.5°	73.2	73.2	38.4	27.5	20.1	54.9	86.1	137.3	195.9	115.3
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>
4987.3
5373.6
5558.5
5521.9
5243.6
4791.4
4335.5
3995.0
3795.4
3716.7
3670.9
3625.1
3476.8
3138.1
2726.2
2343.5
2039.6
1832.7
1827.2
1810.7
1688.1
1473.9
1351.2
1299.9
1257.8
1166.3
1104.0
1032.6
953.9
862.3
822.1
640.8
432.1
307.6
228.9
113.5
0.0

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