

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: P951883

Luminaire Tested: **GALN-SB5D-927-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951883  
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-SB5D-927-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

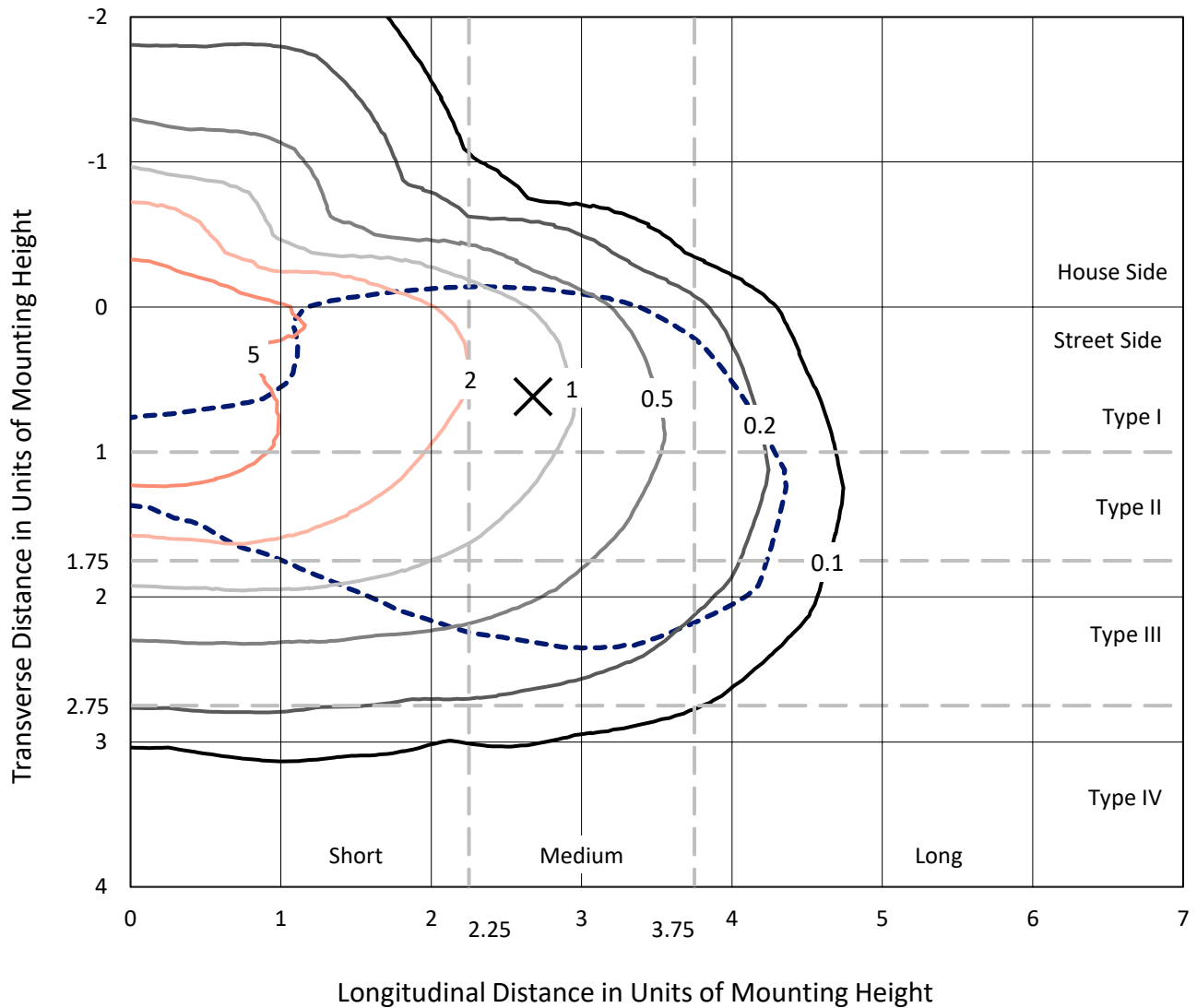
Lumens per Lamp: N/A  
Luminaire Lumens: 32121 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

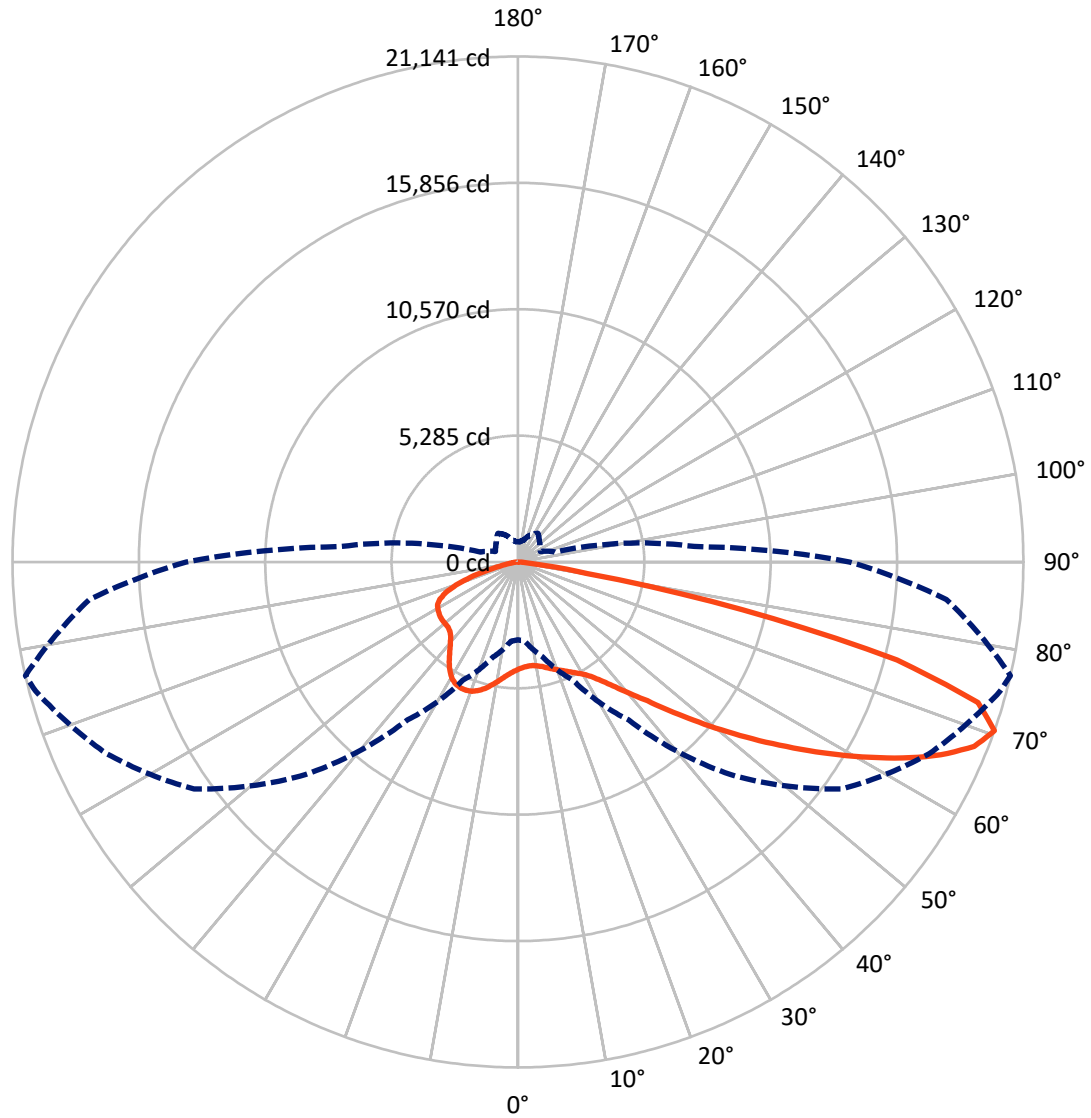
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	7034.0	0.0	7034.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	25087.0	0.0	25087.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	32121.0	0.0	32121.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.4	1.3
10°-20°	1233.5	3.8
20°-30°	2109.4	6.6
30°-40°	3392.1	10.6
40°-50°	5296.0	16.5
50°-60°	7074.2	22.0
60°-70°	7540.0	23.5
70°-80°	4641.6	14.5
80°-90°	406.7	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°	32121.0	100.0
0°-180°	32121.0	100.0

**Coefficient of Utilization**

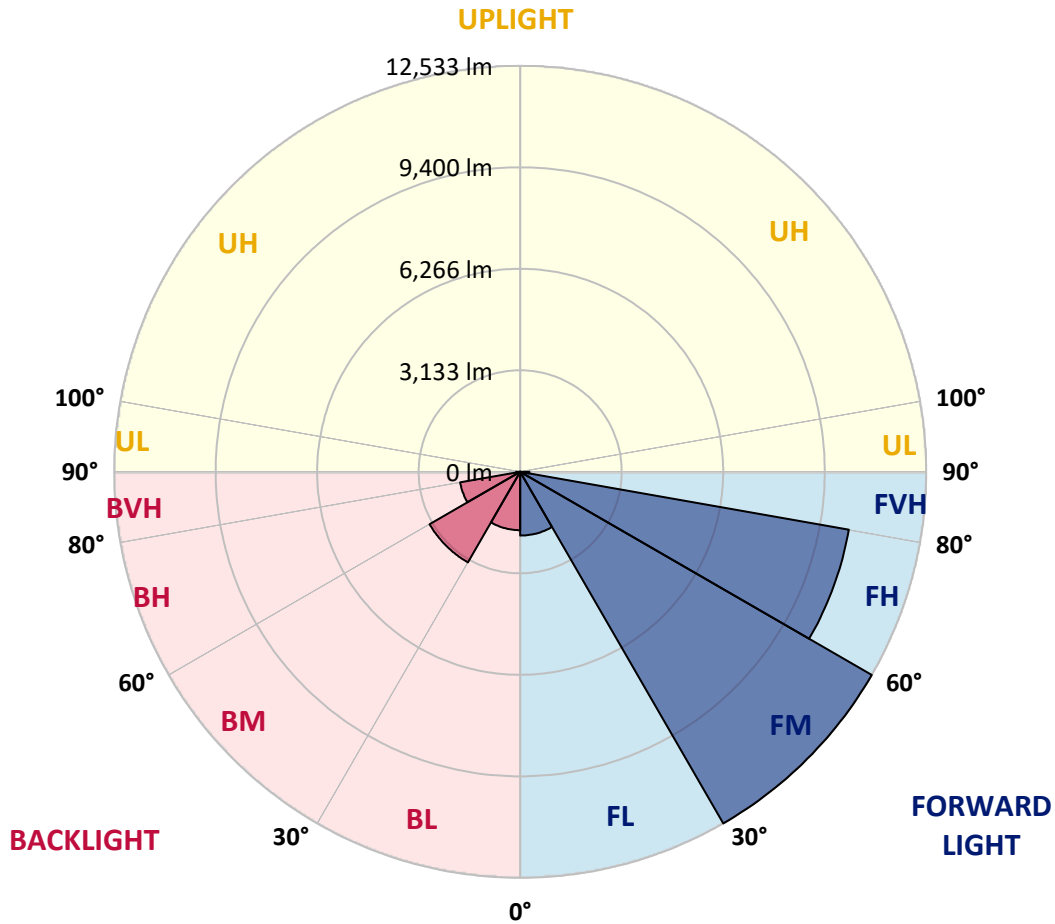


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.9	6.1			
FM (30°-60°)	12532.9	39.0			
FH (60°-80°)	10301.7	32.1			G4/12000
FVH (80°-90°)	284.4	0.9			G3/500
BL (0°-30°)	1802.3	5.6	B3/2500		
BM (30°-60°)	3229.5	10.1	B3/5000		
BH (60°-80°)	1879.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	122.3	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°	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2
2.5°	4130.8	4129.1	4150.5	4157.1	4196.6	4224.5	4277.2	4333.1	4405.5	4413.7
5°	3892.2	3892.2	3916.9	3943.2	3994.2	4050.2	4130.8	4227.8	4352.9	4372.6
7.5°	3689.9	3703.1	3724.4	3775.4	3834.7	3915.3	4038.6	4176.8	4341.3	4372.6
10°	3527.0	3541.8	3568.2	3609.3	3698.1	3810.0	3971.2	4148.9	4369.3	4418.7
12.5°	3476.0	3490.8	3505.6	3536.9	3619.2	3750.8	3943.2	4162.0	4436.8	4486.1
15°	3594.5	3612.6	3601.1	3592.8	3635.6	3755.7	3956.4	4209.7	4520.7	4591.4
17.5°	3867.6	3874.1	3847.8	3770.5	3763.9	3828.1	4018.9	4275.5	4625.9	4703.3
20°	4308.4	4296.9	4242.6	4089.6	4002.5	3989.3	4125.8	4374.2	4734.5	4816.8
22.5°	4907.2	4894.1	4785.5	4543.7	4349.6	4221.3	4280.5	4502.6	4856.2	4948.4
25°	5654.1	5636.0	5476.4	5147.4	4846.4	4528.9	4491.0	4672.0	5006.0	5091.5
27.5°	6526.0	6511.2	6338.5	5904.2	5469.9	4950.0	4752.6	4871.1	5162.2	5259.3
30°	7463.7	7506.5	7200.5	6733.3	6183.8	5499.5	5104.7	5116.2	5364.6	5451.8
32.5°	8565.9	8639.9	8271.4	7679.2	6929.0	6096.6	5548.8	5458.3	5659.0	5731.4
35°	9658.2	9742.1	9436.1	8781.4	7917.7	6800.7	6012.7	5851.5	6050.6	6129.5
37.5°	10602.5	10714.3	10556.4	9987.2	8975.5	7649.6	6618.1	6313.8	6532.6	6631.3
40°	11347.7	11518.8	11507.3	11151.9	10222.5	8679.4	7386.4	6884.6	7131.4	7238.3
42.5°	11953.1	12101.1	12229.5	12211.4	11523.7	9849.0	8289.5	7626.5	7814.1	7937.5
45°	12370.9	12528.9	12805.2	13103.0	12775.6	11100.9	9324.3	8506.7	8677.7	8863.6
47.5°	12744.4	12923.7	13282.3	13754.4	13838.3	12357.8	10457.7	9531.5	9687.8	9880.3
50°	12777.3	12931.9	13487.9	14157.5	14593.4	13565.3	11675.1	10681.4	10827.9	11033.5
52.5°	11982.7	12226.2	13196.8	14146.0	14940.5	14575.3	12884.2	11877.4	12041.9	12288.7
55°	9301.2	9658.2	12343.0	13705.1	14817.2	15228.4	14034.1	13149.0	13359.6	13617.9
57.5°	8011.5	8167.8	9798.0	12902.3	14254.5	15397.9	15004.7	14433.9	14772.7	15055.7
60°	7200.5	7330.4	8294.4	11653.7	13514.3	15129.7	15754.8	15631.5	16217.1	16554.3
62.5°	6331.9	6455.3	7332.1	9730.6	12566.7	14683.9	16228.6	16736.9	17697.7	18066.2
65°	5469.9	5575.1	6415.8	8176.0	11362.5	14238.1	16473.7	17692.7	19068.0	19449.7
67.5°	4509.1	4596.3	5390.9	6897.8	9898.4	13627.8	16595.5	18444.5	20260.7	20588.1
70°	3253.9	3321.4	4142.3	5455.1	8060.8	12578.2	16546.1	18977.5	20879.2	21140.8
72.5°	1538.1	1599.0	2563.0	3541.8	5693.6	10535.0	15547.6	18554.8	20250.8	20120.9
75°	820.9	873.5	1472.3	1942.8	3007.2	7221.9	12723.0	15983.5	17005.1	16373.4
77.5°	556.0	597.2	911.4	1166.4	1373.6	3428.3	8177.6	11066.4	10646.9	9603.9
80°	440.9	483.7	746.9	789.6	664.6	1238.7	3379.0	5122.8	3680.0	2943.0
82.5°	338.9	386.6	628.4	572.5	361.9	508.3	983.8	1620.4	942.6	717.3
85°	207.3	258.3	493.5	365.2	204.0	232.0	333.9	450.7	287.9	240.2
87.5°	105.3	148.1	250.1	133.3	92.1	54.3	88.8	88.8	75.7	65.8
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°
4481.2	0°	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2	4481.2
4458.1	2.5°	4497.6	4530.5	4586.5	4639.1	4680.2	4719.7	4759.2	4780.6	4787.2	4813.5
4482.8	5°	4550.3	4611.1	4719.7	4821.7	4885.9	4925.3	4953.3	4969.8	4973.0	4981.3
4550.3	7.5°	4647.3	4744.4	4895.7	4997.7	5045.4	5042.1	5030.6	4989.5	4973.0	4958.2
4649.0	10°	4783.9	4912.2	5098.1	5168.8	5139.2	5060.2	4958.2	4838.2	4782.2	4727.9
4783.9	12.5°	4953.3	5116.2	5298.8	5295.5	5149.1	4946.7	4709.8	4525.6	4408.8	4324.9
4950.0	15°	5158.9	5346.5	5486.3	5374.4	5053.7	4690.1	4343.0	4102.8	3997.5	3905.4
5117.8	17.5°	5371.2	5571.9	5636.0	5349.8	4813.5	4310.1	3916.9	3727.7	3624.1	3574.7
5298.8	20°	5578.4	5777.5	5724.8	5208.3	4448.3	3879.1	3528.7	3425.0	3403.7	3415.2
5474.8	22.5°	5797.2	5974.9	5742.9	4935.2	3982.7	3438.2	3245.7	3249.0	3296.7	3331.3
5659.0	25°	6021.0	6141.0	5695.2	4540.4	3482.6	3114.1	3066.4	3119.1	3212.8	3280.3
5866.3	27.5°	6236.5	6289.1	5591.6	4051.8	3053.3	2882.2	2890.4	2999.0	3140.4	3234.2
6118.0	30°	6479.9	6420.7	5392.5	3502.4	2755.5	2683.1	2752.2	2878.9	3020.3	3104.2
6435.5	32.5°	6754.7	6534.2	5076.7	2994.0	2544.9	2523.5	2637.0	2719.3	2781.8	2806.5
6856.7	35°	7096.8	6693.8	4672.0	2637.0	2355.7	2406.7	2515.3	2474.2	2449.5	2436.3
7422.6	37.5°	7541.0	6909.3	4198.2	2405.1	2202.7	2322.8	2367.3	2238.9	2141.9	2094.2
8108.6	40°	8075.7	7225.2	3742.5	2225.8	2105.7	2250.5	2173.1	2018.5	1895.1	1827.7
8880.1	42.5°	8669.5	7555.8	3359.2	2090.9	2051.4	2191.2	2030.0	1845.8	1646.7	1625.3
9799.7	45°	9293.0	7896.3	3097.7	1987.2	2025.1	2140.2	1947.8	1650.0	1508.5	1595.7
10722.6	47.5°	9916.5	8208.9	2939.7	1909.9	2011.9	2082.7	1875.4	1541.4	1441.1	1567.8
11711.3	50°	10610.7	8488.6	2869.0	1854.0	1997.1	2059.6	1766.8	1513.5	1370.3	1454.2
12734.5	52.5°	11300.0	8705.7	2816.4	1798.1	1975.7	2041.5	1714.2	1480.6	1284.8	1289.7
13764.3	55°	11987.6	8847.2	2758.8	1724.0	1928.0	2002.1	1709.2	1444.4	1220.6	1197.6
14853.3	57.5°	12721.3	8927.8	2688.0	1641.8	1845.8	1901.7	1704.3	1416.4	1200.9	1163.1
15967.1	60°	13468.2	9046.2	2595.9	1541.4	1735.5	1781.6	1692.8	1406.5	1189.4	1125.2
17016.6	62.5°	14137.7	9087.4	2485.7	1446.0	1594.1	1663.2	1668.1	1398.3	1158.1	1047.9
17888.5	65°	14577.0	8909.7	2293.2	1337.4	1441.1	1541.4	1620.4	1370.3	1102.2	992.0
18319.5	67.5°	14558.9	8403.0	1992.2	1197.6	1293.0	1406.5	1551.3	1322.6	1034.7	922.9
17993.8	70°	13881.1	7402.8	1610.5	1034.7	1130.2	1261.8	1462.5	1251.9	954.1	847.2
16000.0	72.5°	11905.4	5793.9	1169.6	843.9	941.0	1112.1	1347.3	1166.4	871.9	779.8
11824.8	75°	8505.0	3666.9	792.9	648.2	732.1	942.6	1204.2	1066.0	796.2	783.1
5922.3	77.5°	4344.6	1752.0	524.8	473.8	510.0	743.6	1011.7	952.5	807.7	646.5
1684.6	80°	1413.1	646.5	330.7	322.4	338.9	495.2	783.1	781.4	612.0	439.2
408.0	82.5°	450.7	278.0	215.5	207.3	199.1	310.9	546.2	618.5	412.9	278.0
146.4	85°	179.3	166.2	126.7	116.8	83.9	146.4	286.2	411.3	307.6	200.7
37.8	87.5°	65.8	65.8	34.5	24.7	18.1	49.4	77.3	123.4	176.0	103.6
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>
4481.2
4828.3
4994.4
4961.5
4711.5
4305.1
3895.5
3589.5
3410.2
3339.5
3298.4
3257.2
3124.0
2819.7
2449.5
2105.7
1832.6
1646.7
1641.8
1627.0
1516.8
1324.3
1214.1
1168.0
1130.2
1047.9
992.0
927.8
857.1
774.8
738.6
575.8
388.2
276.4
205.6
102.0
0.0

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