

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: P955367

Luminaire Tested: **GALN-SB8B-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-830-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

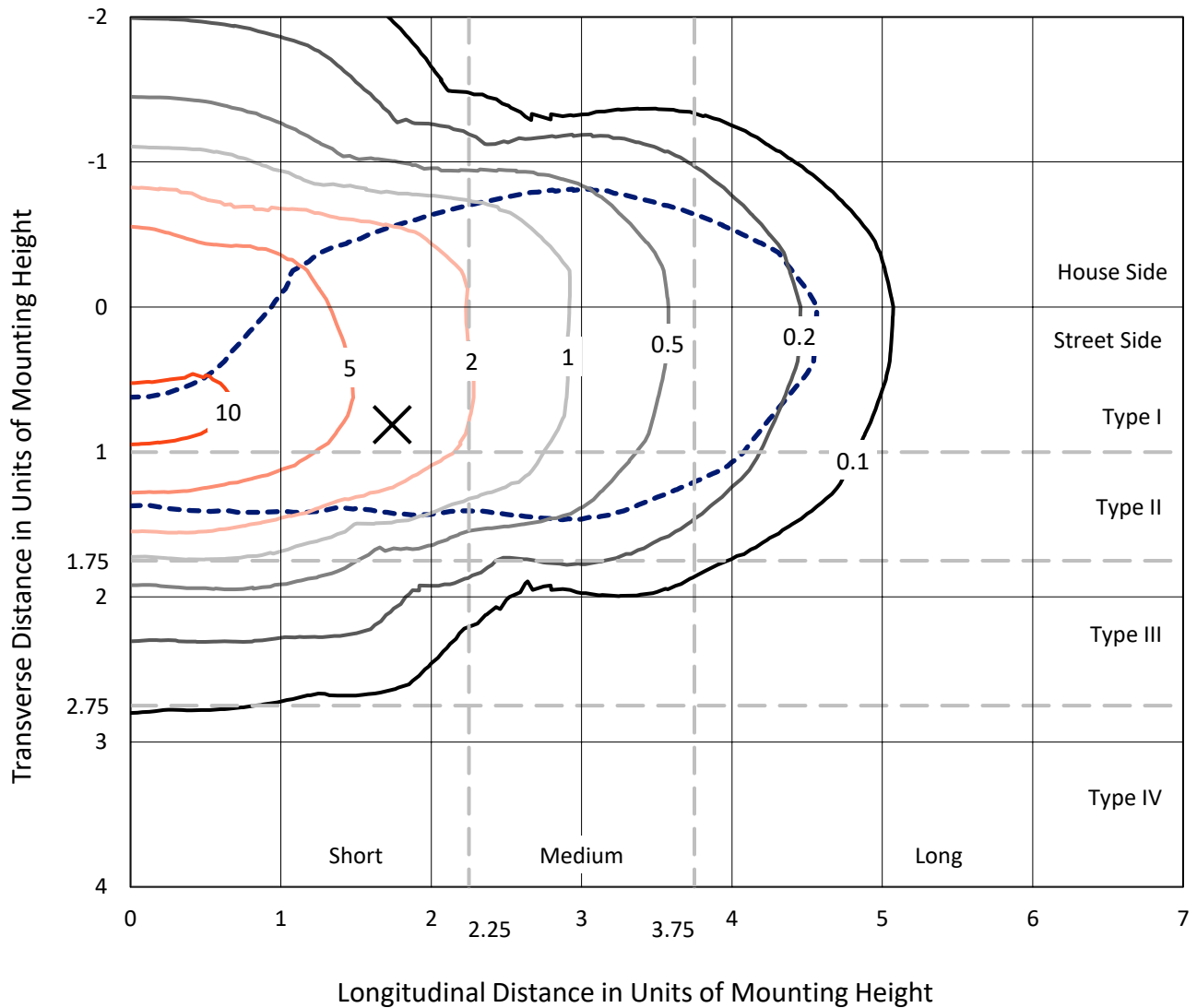
Lumens per Lamp: N/A  
Luminaire Lumens: 41462 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

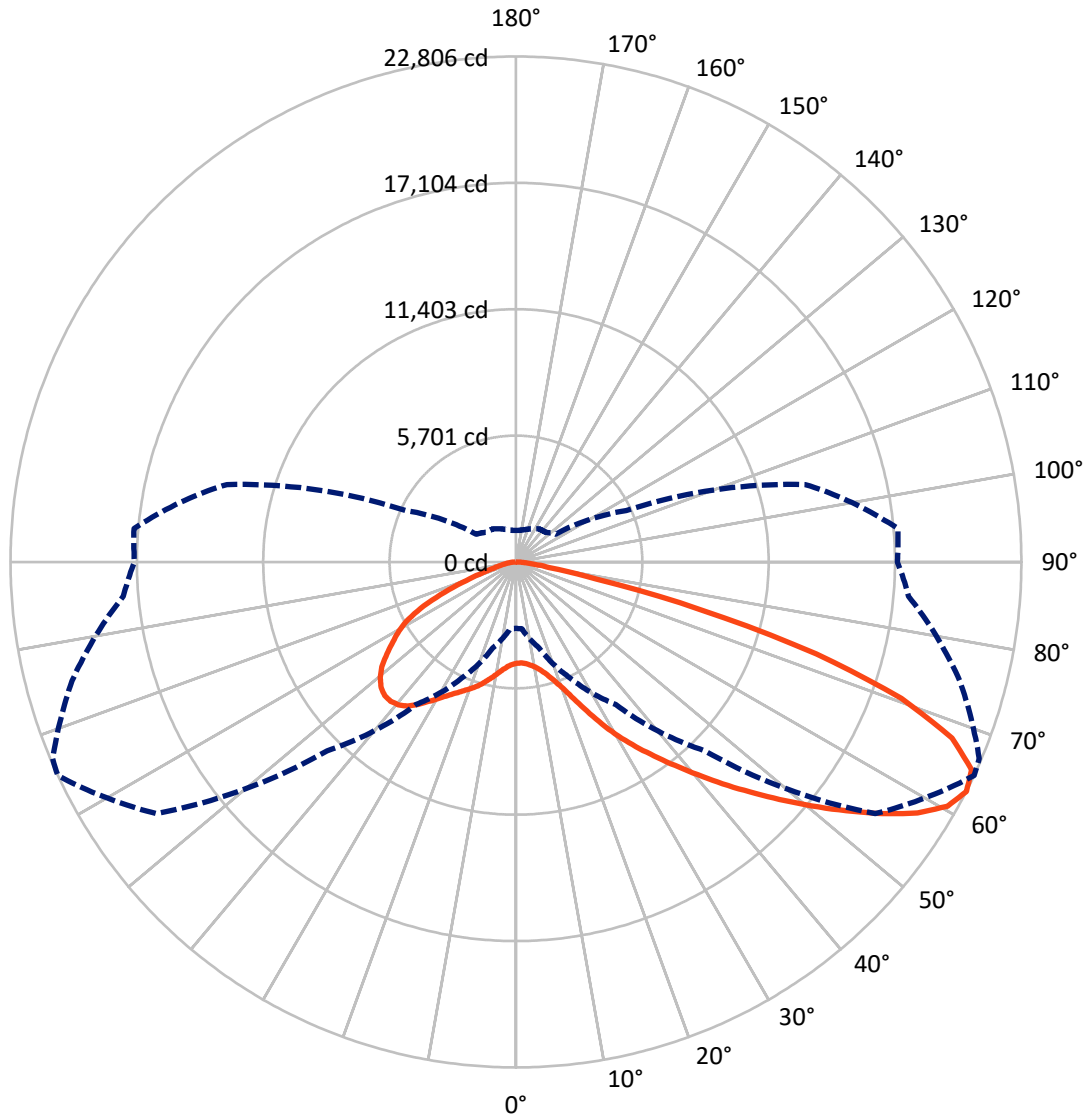
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13083.6	0.0	13083.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	28378.4	0.0	28378.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	41462.0	0.0	41462.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.5	1.1
10°-20°	1544.7	3.7
20°-30°	3132.0	7.6
30°-40°	5419.9	13.1
40°-50°	8202.1	19.8
50°-60°	9616.4	23.2
60°-70°	8062.2	19.4
70°-80°	4451.0	10.7
80°-90°	578.2	1.4
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°	41462.0	100.0
0°-180°	41462.0	100.0

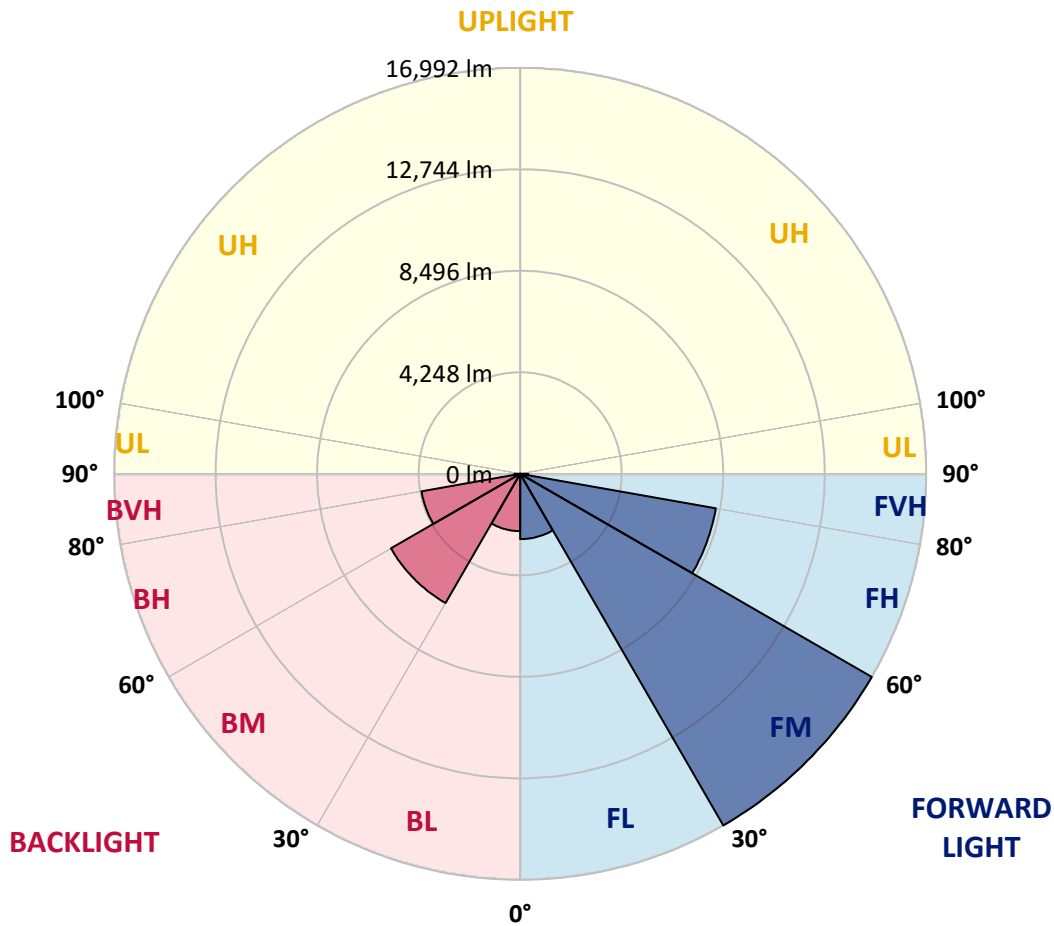


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2732.9	6.6			
FM (30°-60°)	16992.5	41.0			
FH (60°-80°)	8316.1	20.1			G4/12000
FVH (80°-90°)	337.0	0.8			G3/500
BL (0°-30°)	2399.4	5.8	B3/2500		
BM (30°-60°)	6245.9	15.1	B4/8500		
BH (60°-80°)	4197.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	241.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4538.8	4525.9	4536.7	4536.7	4541.0	4538.8	4553.9	4558.2	4564.6	4577.5
5°	4493.6	4491.5	4510.9	4528.1	4545.3	4560.3	4579.7	4607.7	4612.0	4627.0
7.5°	4478.6	4465.7	4495.8	4517.3	4558.2	4594.7	4646.4	4693.7	4713.1	4719.5
10°	4594.7	4573.2	4601.2	4614.1	4648.5	4685.1	4745.3	4820.6	4842.1	4867.9
12.5°	4792.6	4769.0	4809.9	4829.2	4861.5	4893.7	4934.6	5007.8	5018.5	5065.8
15°	5063.7	5035.7	5061.5	5085.2	5139.0	5169.1	5210.0	5280.9	5280.9	5317.5
17.5°	5431.5	5395.0	5414.3	5422.9	5457.3	5502.5	5571.3	5633.7	5666.0	5653.1
20°	5980.1	5934.9	5934.9	5891.9	5879.0	5915.5	6005.9	6091.9	6126.3	6059.6
22.5°	6803.9	6739.4	6702.8	6556.5	6498.5	6502.8	6593.1	6698.5	6726.5	6608.2
25°	7851.5	7750.4	7700.9	7485.8	7354.6	7240.6	7311.6	7447.1	7485.8	7339.5
27.5°	8899.1	8905.5	8858.2	8600.1	8382.8	8174.2	8137.6	8279.6	8320.4	8154.8
30°	10368.3	10215.6	10125.2	9815.5	9505.7	9213.2	9062.6	9120.7	9131.4	8933.5
32.5°	11635.3	11596.6	11403.0	11131.9	10734.0	10275.8	10024.1	9931.6	9914.4	9632.6
35°	13078.7	13057.2	12852.8	12530.1	12099.9	11463.2	11009.3	10744.7	10723.2	10327.4
37.5°	14545.7	14545.7	14345.7	13992.9	13547.6	12751.7	12061.2	11641.7	11572.9	11056.6
40°	15715.9	15644.9	15681.5	15533.1	15023.3	14177.9	13229.3	12620.5	12528.0	11908.5
42.5°	16380.6	16357.0	16576.4	16742.0	16533.3	15857.9	14515.6	13681.0	13551.9	12846.4
45°	16529.0	16503.2	16894.7	17501.3	17793.9	17516.4	15913.8	14797.4	14640.4	13827.3
47.5°	16187.0	16135.4	16709.7	17667.0	18604.8	19093.1	17428.2	16008.5	15780.5	14782.3
50°	15158.8	15109.3	15978.4	17249.7	18878.0	20164.4	19071.6	17292.7	16944.2	15806.3
52.5°	12923.8	12947.5	14309.1	16055.8	18518.8	20831.2	20487.1	18645.7	18226.3	16853.9
55°	10067.1	10118.8	11792.3	13715.4	17081.9	20730.1	21452.9	20039.6	19622.3	17839.1
57.5°	7208.3	7436.3	9004.5	10908.2	14322.0	19127.6	21663.7	21364.7	20960.3	18914.6
60°	4672.2	4713.1	6326.4	8245.2	10906.1	16279.5	21235.6	22369.3	22053.1	20011.7
62.5°	2994.3	3022.3	4005.3	5767.1	7849.4	12044.0	19794.4	22805.9	22709.1	20736.6
65°	2200.6	2179.1	2691.0	3811.7	5287.4	7427.7	16995.8	22595.1	22786.6	21190.5
67.5°	1837.0	1806.9	2058.6	2639.4	3895.6	4218.3	12575.3	21224.9	21926.1	21138.8
70°	1673.6	1647.7	1800.5	1959.7	3039.5	2824.4	6339.3	18452.1	19532.0	20551.6
72.5°	1417.6	1372.4	1581.1	1740.2	2364.1	2166.2	2620.0	14173.6	15490.1	18669.4
75°	1099.2	1069.1	1247.6	1531.6	1776.8	1690.8	1656.3	8606.5	10043.5	14438.2
77.5°	871.2	830.3	993.8	1193.9	1598.3	1275.6	1206.8	3706.3	5130.4	9217.5
80°	656.1	619.5	755.0	944.3	1228.3	961.5	780.8	1512.2	1933.8	4670.0
82.5°	466.8	434.5	527.0	692.7	826.0	862.6	479.7	847.5	952.9	1800.5
85°	299.0	279.6	352.8	434.5	524.9	555.0	292.5	443.1	486.1	742.1
87.5°	163.5	133.4	189.3	202.2	243.1	221.6	139.8	161.3	174.2	268.9
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°
4568.9	0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
4577.5	2.5°	4586.1	4592.6	4614.1	4620.6	4635.6	4655.0	4667.9	4680.8	4680.8	4693.7
4646.4	5°	4648.5	4663.6	4708.8	4732.4	4771.1	4809.9	4833.5	4861.5	4878.7	4887.3
4756.1	7.5°	4769.0	4792.6	4857.2	4898.1	4964.7	5018.5	5055.1	5093.8	5102.4	5126.1
4908.8	10°	4932.5	4960.4	5033.6	5111.0	5190.6	5257.3	5291.7	5319.7	5330.4	5334.7
5104.6	12.5°	5119.6	5160.5	5255.1	5349.8	5433.7	5491.8	5500.4	5493.9	5463.8	5438.0
5345.5	15°	5349.8	5386.3	5491.8	5595.0	5676.7	5687.5	5633.7	5599.3	5562.7	5556.3
5614.4	17.5°	5625.1	5644.5	5741.3	5842.4	5848.8	5812.3	5732.7	5700.4	5666.0	5642.3
5965.0	20°	5945.6	5939.2	6008.0	6051.0	6005.9	5894.0	5773.5	5719.8	5685.4	5657.4
6395.2	22.5°	6328.5	6279.1	6270.5	6259.7	6139.2	5904.8	5741.3	5672.4	5618.7	5579.9
6995.4	25°	6885.7	6696.4	6565.2	6492.0	6221.0	5846.7	5638.0	5485.3	5384.2	5317.5
7728.9	27.5°	7582.6	7264.3	6933.0	6754.4	6221.0	5728.4	5388.5	5141.1	4975.5	4906.7
8438.8	30°	8247.3	7913.9	7425.6	7070.7	6205.9	5534.8	4986.2	4642.1	4448.5	4379.6
9045.4	32.5°	8815.2	8451.7	7948.3	7417.0	6169.3	5220.7	4487.2	4106.4	3919.3	3837.6
9645.5	35°	9342.2	8955.0	8473.2	7797.7	6072.6	4760.4	3938.7	3648.3	3439.6	3308.4
10256.4	37.5°	9882.1	9421.8	8970.1	8141.9	5898.3	4222.6	3517.0	3269.7	3024.4	2848.1
10906.1	40°	10469.4	9918.7	9501.4	8346.3	5612.2	3710.6	3190.1	2964.2	2703.9	2516.8
11654.7	42.5°	11155.6	10514.6	10093.0	8451.7	5220.7	3347.1	2977.1	2755.6	2510.3	2357.6
12457.0	45°	11871.9	11170.7	10632.9	8449.5	4784.0	3177.2	2908.3	2688.9	2417.8	2258.7
13280.9	47.5°	12622.6	11856.9	11099.7	8311.8	4405.4	3200.8	2869.6	2544.7	2245.7	2090.9
14113.4	50°	13375.5	12607.6	11551.4	8053.7	4244.1	3149.2	2725.4	2342.5	1989.8	1849.9
14894.2	52.5°	14122.0	13405.6	11940.7	7685.9	4080.6	2957.8	2540.4	2080.1	1884.4	1787.6
15700.9	55°	14872.7	14195.1	12364.5	7150.3	3671.9	2734.0	2230.7	1981.2	1800.5	1712.3
16490.3	57.5°	15625.6	15107.2	12766.8	6614.6	3157.8	2458.7	2060.8	1860.7	1716.6	1641.3
17150.7	60°	16408.6	16150.4	13181.9	6122.0	2650.2	2105.9	1936.0	1763.9	1617.6	1533.7
17785.3	62.5°	17215.2	17299.1	13506.7	5487.5	2183.4	1890.8	1824.1	1647.7	1505.8	1426.2
18310.1	65°	18028.4	18406.9	13719.7	4607.7	1770.4	1686.5	1703.7	1520.8	1376.7	1307.9
18695.2	67.5°	18641.4	19205.0	13659.5	3486.9	1452.0	1492.9	1553.1	1387.5	1251.9	1198.2
18632.8	70°	18710.3	19110.4	13065.8	2387.7	1215.4	1303.6	1385.3	1256.2	1116.4	1077.7
17755.2	72.5°	17793.9	17819.7	11411.6	1559.5	1028.2	1144.4	1208.9	1122.9	987.4	948.6
15533.1	75°	15391.1	14737.2	8378.5	1028.2	860.4	983.1	1043.3	983.1	851.8	860.4
11622.4	77.5°	11661.1	10437.1	5087.3	731.4	718.5	826.0	907.8	864.7	752.9	845.4
5844.5	80°	6008.0	5646.6	2269.4	546.4	567.9	660.4	746.4	690.5	595.9	567.9
1305.7	82.5°	1376.7	1600.4	894.9	391.5	410.9	475.4	570.0	518.4	428.1	361.4
544.2	85°	481.8	527.0	395.8	245.2	240.9	296.9	387.2	346.3	290.4	232.3
230.2	87.5°	152.7	200.1	148.4	99.0	103.3	133.4	178.5	163.5	135.5	88.2
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>
4568.9
4693.7
4891.6
5117.5
5324.0
5438.0
5556.3
5644.5
5659.5
5592.9
5343.3
4941.1
4420.5
3878.4
3351.4
2895.4
2553.4
2387.7
2284.5
2112.4
1858.5
1787.6
1703.7
1628.4
1527.3
1424.0
1305.7
1200.3
1079.9
946.5
830.3
744.3
518.4
357.1
245.2
92.5
0.0

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