

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: P955346

Luminaire Tested: **GALN-SB8B-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955346  
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-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

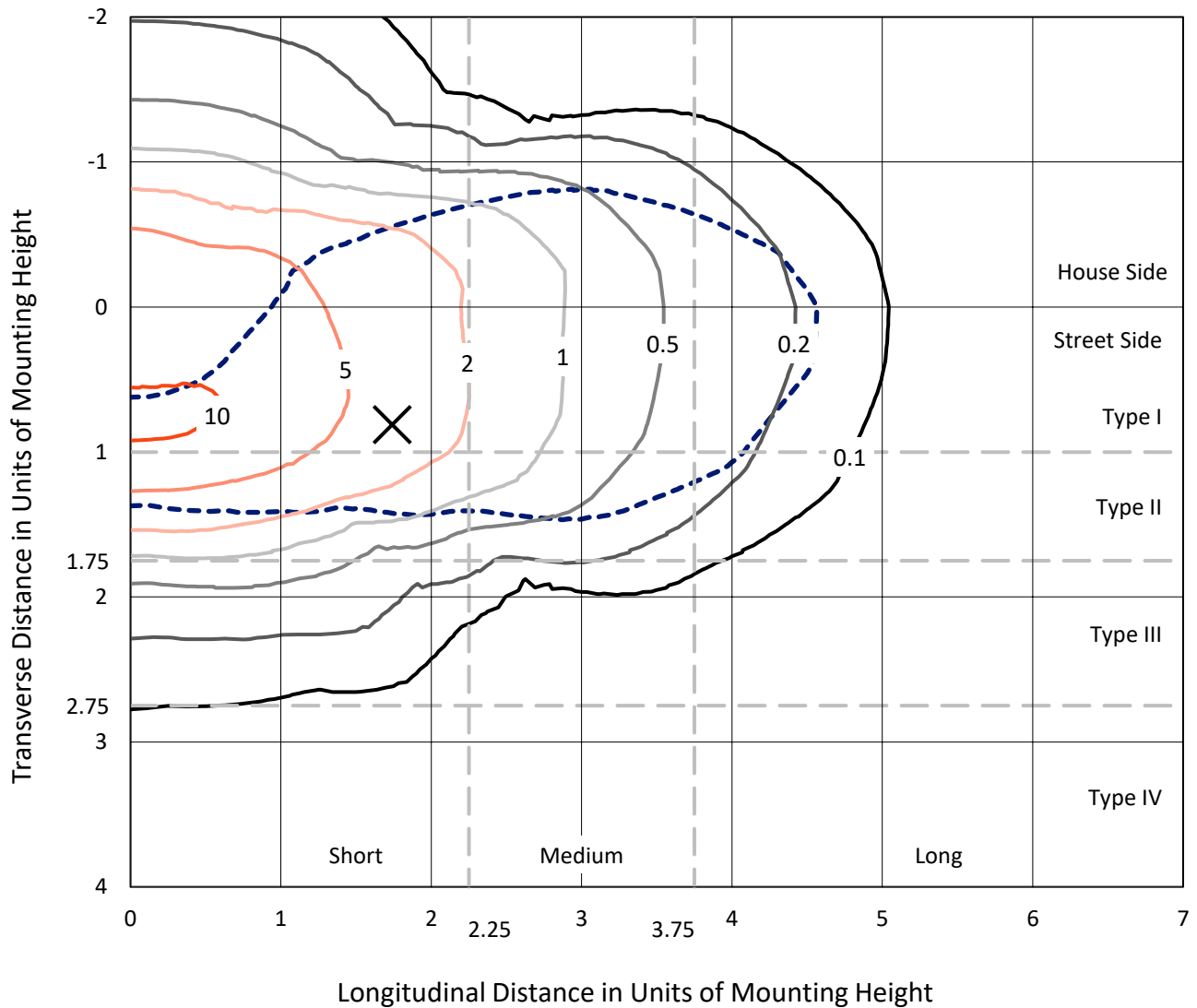
Lumens per Lamp: N/A  
Luminaire Lumens: 40125 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

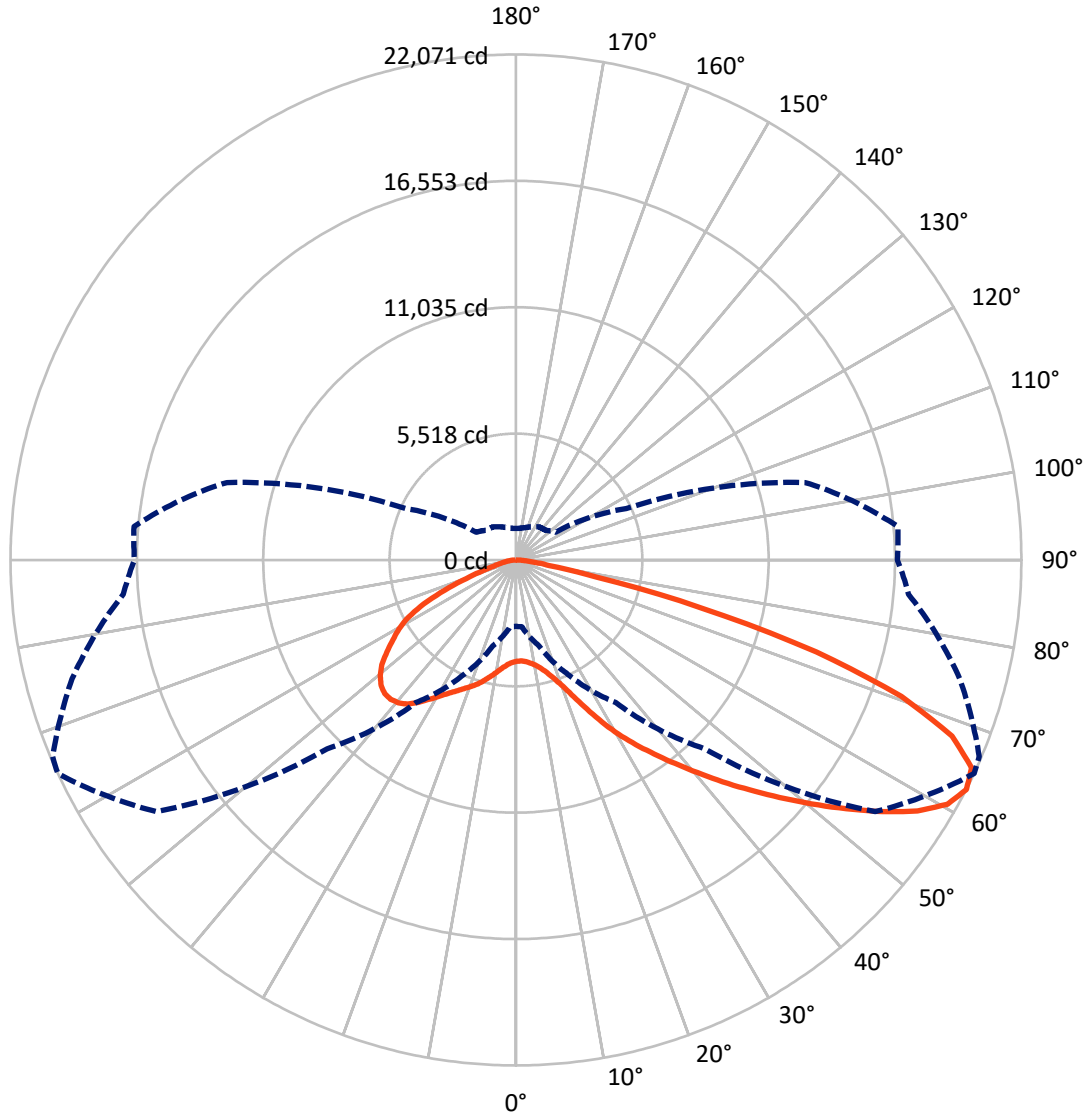
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	12661.7	0.0	12661.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	27463.3	0.0	27463.3
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	40125.0	0.0	40125.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.8	1.1
10°-20°	1494.9	3.7
20°-30°	3031.1	7.6
30°-40°	5245.2	13.1
40°-50°	7937.6	19.8
50°-60°	9306.3	23.2
60°-70°	7802.2	19.4
70°-80°	4307.5	10.7
80°-90°	559.5	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°	40125.0	100.0
0°-180°	40125.0	100.0



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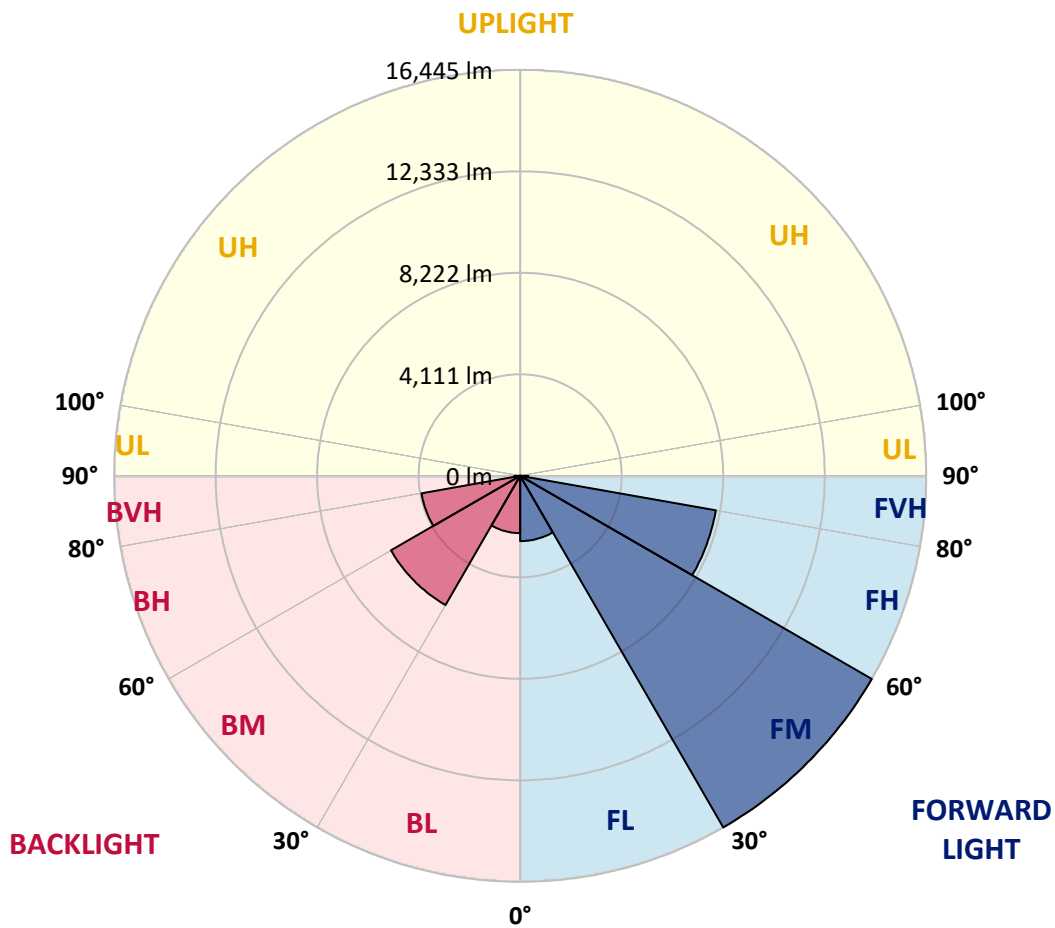
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2644.8	6.6			
FM (30°-60°)	16444.5	41.0			
FH (60°-80°)	8047.9	20.1			G4/12000
FVH (80°-90°)	326.1	0.8			G3/500
BL (0°-30°)	2322.0	5.8	B3/2500		
BM (30°-60°)	6044.5	15.1	B4/8500		
BH (60°-80°)	4061.8	10.1	B4/5000		G4/5000
BVH (80°-90°)	233.4	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°	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6
2.5°	4392.5	4380.0	4390.4	4390.4	4394.5	4392.5	4407.0	4411.2	4417.4	4429.9
5°	4348.7	4346.7	4365.4	4382.0	4398.7	4413.3	4432.0	4459.1	4463.2	4477.8
7.5°	4334.2	4321.7	4350.8	4371.6	4411.2	4446.6	4496.5	4542.3	4561.1	4567.3
10°	4446.6	4425.8	4452.8	4465.3	4498.6	4534.0	4592.3	4665.2	4686.0	4711.0
12.5°	4638.1	4615.2	4654.8	4673.5	4704.7	4735.9	4775.5	4846.3	4856.7	4902.5
15°	4900.4	4873.3	4898.3	4921.2	4973.3	5002.4	5042.0	5110.7	5110.7	5146.0
17.5°	5256.4	5221.0	5239.7	5248.0	5281.4	5325.1	5391.7	5452.1	5483.3	5470.8
20°	5787.2	5743.5	5743.5	5701.9	5689.4	5724.8	5812.2	5895.5	5928.8	5864.2
22.5°	6584.5	6522.1	6486.7	6345.1	6288.9	6293.1	6380.5	6482.5	6509.6	6395.1
25°	7598.3	7500.5	7452.6	7244.4	7117.4	7007.1	7075.8	7207.0	7244.4	7102.9
27.5°	8612.1	8618.4	8572.6	8322.8	8112.5	7910.6	7875.2	8012.6	8052.1	7891.9
30°	10034.0	9886.2	9798.7	9498.9	9199.2	8916.1	8770.3	8826.5	8837.0	8645.4
32.5°	11260.1	11222.6	11035.3	10773.0	10387.8	9944.4	9700.9	9611.4	9594.7	9322.0
35°	12656.9	12636.1	12438.4	12126.1	11709.7	11093.6	10654.3	10398.3	10377.4	9994.4
37.5°	14076.7	14076.7	13883.1	13541.7	13110.8	12340.5	11672.3	11266.3	11199.7	10700.1
40°	15209.1	15140.4	15175.8	15032.2	14538.8	13720.7	12802.7	12213.5	12124.0	11524.5
42.5°	15852.4	15829.5	16041.8	16202.1	16000.2	15346.5	14047.5	13239.8	13114.9	12432.1
45°	15996.0	15971.1	16349.9	16937.0	17220.1	16951.6	15400.7	14320.2	14168.3	13381.4
47.5°	15665.0	15615.1	16170.9	17097.3	18004.9	18477.5	16866.2	15492.3	15271.6	14305.7
50°	14670.0	14622.1	15463.1	16693.4	18269.3	19514.2	18456.6	16735.1	16397.8	15296.6
52.5°	12507.1	12530.0	13847.7	15538.1	17921.6	20159.5	19826.4	18044.5	17638.5	16310.4
55°	9742.5	9792.5	11412.1	13273.1	16531.0	20061.7	20761.1	19393.4	18989.6	17263.8
57.5°	6975.9	7196.6	8714.1	10556.5	13860.2	18510.8	20965.1	20675.8	20284.4	18304.7
60°	4521.5	4561.1	6122.4	7979.3	10554.4	15754.6	20550.9	21647.9	21341.9	19366.4
62.5°	2897.8	2924.8	3876.2	5581.1	7596.2	11655.6	19156.1	22070.5	21976.9	20067.9
65°	2129.6	2108.8	2604.2	3688.8	5116.9	7188.2	16447.8	21866.5	22051.8	20507.2
67.5°	1777.8	1748.7	1992.2	2554.3	3770.0	4082.3	12169.8	20540.5	21219.1	20457.2
70°	1619.6	1594.6	1742.4	1896.5	2941.5	2733.3	6134.9	17857.1	18902.1	19888.9
72.5°	1371.9	1328.1	1530.1	1684.1	2287.8	2096.3	2535.6	13716.5	14990.6	18067.4
75°	1063.8	1034.6	1207.4	1482.2	1719.5	1636.2	1602.9	8329.0	9719.6	13972.6
77.5°	843.1	803.5	961.8	1155.4	1546.7	1234.5	1167.9	3586.8	4964.9	8920.2
80°	634.9	599.5	730.7	913.9	1188.7	930.5	755.7	1463.5	1871.5	4519.4
82.5°	451.7	420.5	510.0	670.3	799.4	834.8	464.2	820.2	922.2	1742.4
85°	289.4	270.6	341.4	420.5	507.9	537.1	283.1	428.8	470.5	718.2
87.5°	158.2	129.1	183.2	195.7	235.2	214.4	135.3	156.1	168.6	260.2
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°
4421.6	0°	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6	4421.6
4429.9	2.5°	4438.3	4444.5	4465.3	4471.6	4486.1	4504.9	4517.4	4529.9	4529.9	4542.3
4496.5	5°	4498.6	4513.2	4556.9	4579.8	4617.3	4654.8	4677.7	4704.7	4721.4	4729.7
4602.7	7.5°	4615.2	4638.1	4700.6	4740.1	4804.6	4856.7	4892.1	4929.5	4937.9	4960.8
4750.5	10°	4773.4	4800.5	4871.3	4946.2	5023.2	5087.8	5121.1	5148.1	5158.5	5162.7
4940.0	12.5°	4954.5	4994.1	5085.7	5177.3	5258.5	5314.7	5323.0	5316.7	5287.6	5262.6
5173.1	15°	5177.3	5212.7	5314.7	5414.6	5493.7	5504.1	5452.1	5418.8	5383.4	5377.1
5433.3	17.5°	5443.7	5462.5	5556.1	5654.0	5660.2	5624.8	5547.8	5516.6	5483.3	5460.4
5772.6	20°	5753.9	5747.7	5814.3	5855.9	5812.2	5703.9	5587.4	5535.3	5502.0	5475.0
6189.0	22.5°	6124.5	6076.6	6068.3	6057.8	5941.3	5714.4	5556.1	5489.5	5437.5	5400.0
6769.8	25°	6663.6	6480.4	6353.4	6282.7	6020.4	5658.2	5456.2	5308.4	5210.6	5146.0
7479.7	27.5°	7338.1	7030.0	6709.4	6536.6	6020.4	5543.7	5214.7	4975.3	4815.0	4748.4
8166.6	30°	7981.4	7658.7	7186.1	6842.7	6005.8	5356.3	4825.5	4492.4	4305.0	4238.4
8753.7	32.5°	8530.9	8179.1	7692.0	7177.8	5970.4	5052.4	4342.5	3974.0	3792.9	3713.8
9334.5	35°	9041.0	8666.3	8199.9	7546.3	5876.7	4606.9	3811.7	3530.6	3328.7	3201.7
9925.7	37.5°	9563.5	9118.0	8680.8	7879.4	5708.1	4086.4	3403.6	3164.2	2926.9	2756.2
10554.4	40°	10131.8	9598.9	9195.0	8077.1	5431.2	3591.0	3087.2	2868.6	2616.7	2435.6
11278.8	42.5°	10795.9	10175.5	9767.5	8179.1	5052.4	3239.2	2881.1	2666.7	2429.4	2281.6
12055.3	45°	11489.1	10810.4	10290.0	8177.0	4629.8	3074.7	2814.5	2602.2	2339.9	2185.8
12852.6	47.5°	12215.6	11474.5	10741.7	8043.8	4263.4	3097.6	2777.0	2462.7	2173.3	2023.4
13658.3	50°	12944.2	12201.0	11178.9	7794.0	4107.3	3047.7	2637.6	2267.0	1925.6	1790.3
14413.9	52.5°	13666.6	12973.4	11555.7	7438.0	3949.0	2862.4	2458.5	2013.0	1823.6	1729.9
15194.6	55°	14393.1	13737.4	11965.8	6919.7	3553.5	2645.9	2158.8	1917.3	1742.4	1657.1
15958.6	57.5°	15121.7	14620.0	12355.1	6401.3	3056.0	2379.4	1994.3	1800.7	1661.2	1588.4
16597.7	60°	15879.5	15629.7	12756.9	5924.6	2564.7	2038.0	1873.6	1707.0	1565.5	1484.3
17211.8	62.5°	16660.1	16741.3	13071.2	5310.5	2113.0	1829.8	1765.3	1594.6	1457.2	1380.2
17719.7	65°	17447.0	17813.4	13277.3	4459.1	1713.3	1632.1	1648.7	1471.8	1332.3	1265.7
18092.3	67.5°	18040.3	18585.7	13219.0	3374.5	1405.2	1444.7	1503.0	1342.7	1211.6	1159.5
18032.0	70°	18106.9	18494.1	12644.4	2310.7	1176.2	1261.5	1340.6	1215.7	1080.4	1042.9
17182.6	72.5°	17220.1	17245.1	11043.6	1509.3	995.1	1107.5	1169.9	1086.7	955.5	918.0
15032.2	75°	14894.8	14262.0	8108.4	995.1	832.7	951.4	1009.6	951.4	824.4	832.7
11247.6	77.5°	11285.1	10100.6	4923.3	707.8	695.3	799.4	878.5	836.9	728.6	818.1
5656.1	80°	5814.3	5464.5	2196.2	528.8	549.6	639.1	722.4	668.2	576.6	549.6
1263.6	82.5°	1332.3	1548.8	866.0	378.9	397.6	460.1	551.7	501.7	414.3	349.7
526.7	85°	466.3	510.0	383.0	237.3	233.2	287.3	374.7	335.2	281.0	224.8
222.7	87.5°	147.8	193.6	143.6	95.8	99.9	129.1	172.8	158.2	131.1	85.4
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>
4421.6
4542.3
4733.9
4952.4
5152.3
5262.6
5377.1
5462.5
5477.0
5412.5
5171.0
4781.7
4278.0
3753.4
3243.3
2802.0
2471.0
2310.7
2210.8
2044.3
1798.6
1729.9
1648.7
1575.9
1478.0
1378.1
1263.6
1161.6
1045.0
916.0
803.5
720.3
501.7
345.6
237.3
89.5
0.0

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