

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: P944232

Luminaire Tested: **GALN-SB9A-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

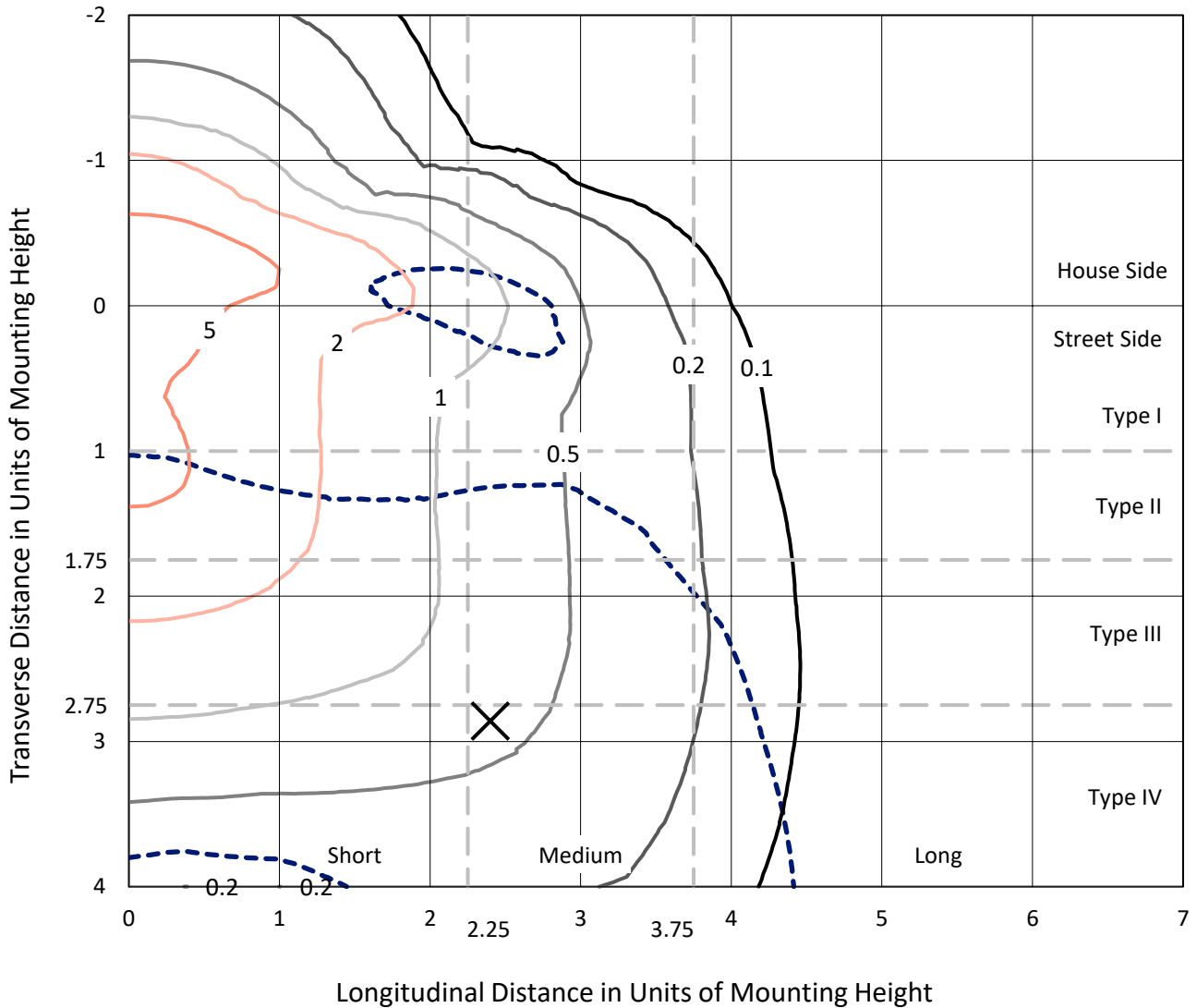
Lumens per Lamp: N/A  
Luminaire Lumens: 36392 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

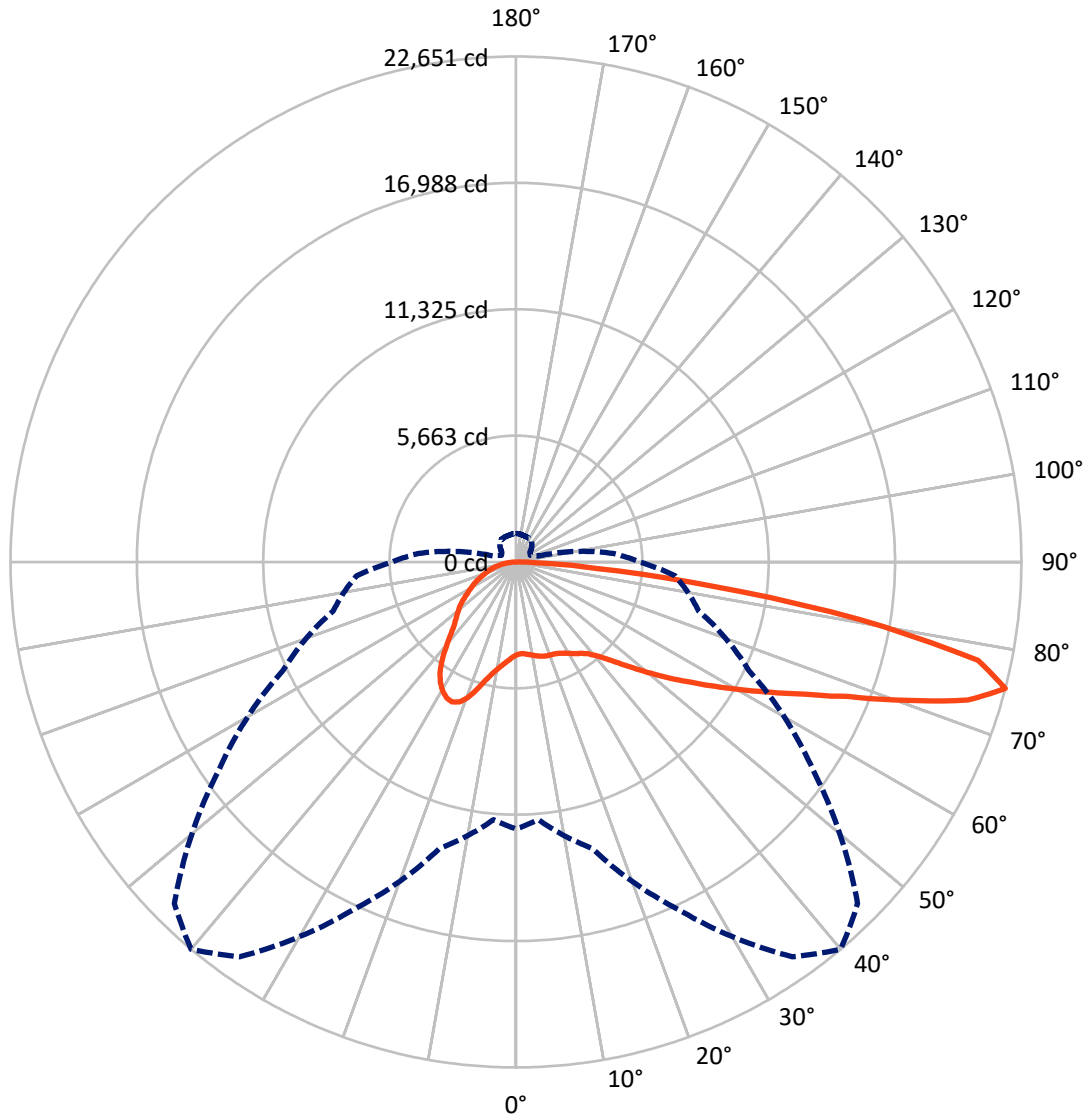
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11275.5	0.0	11275.5
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	25116.5	0.0	25116.5
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	36392.0	0.0	36392.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.4	1.1
10°-20°	1394.7	3.8
20°-30°	2546.6	7.0
30°-40°	3611.7	9.9
40°-50°	4876.9	13.4
50°-60°	6560.7	18.0
60°-70°	8327.1	22.9
70°-80°	7557.3	20.8
80°-90°	1101.6	3.0
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°	36392.0	100.0
0°-180°	36392.0	100.0

**Coefficient of Utilization**



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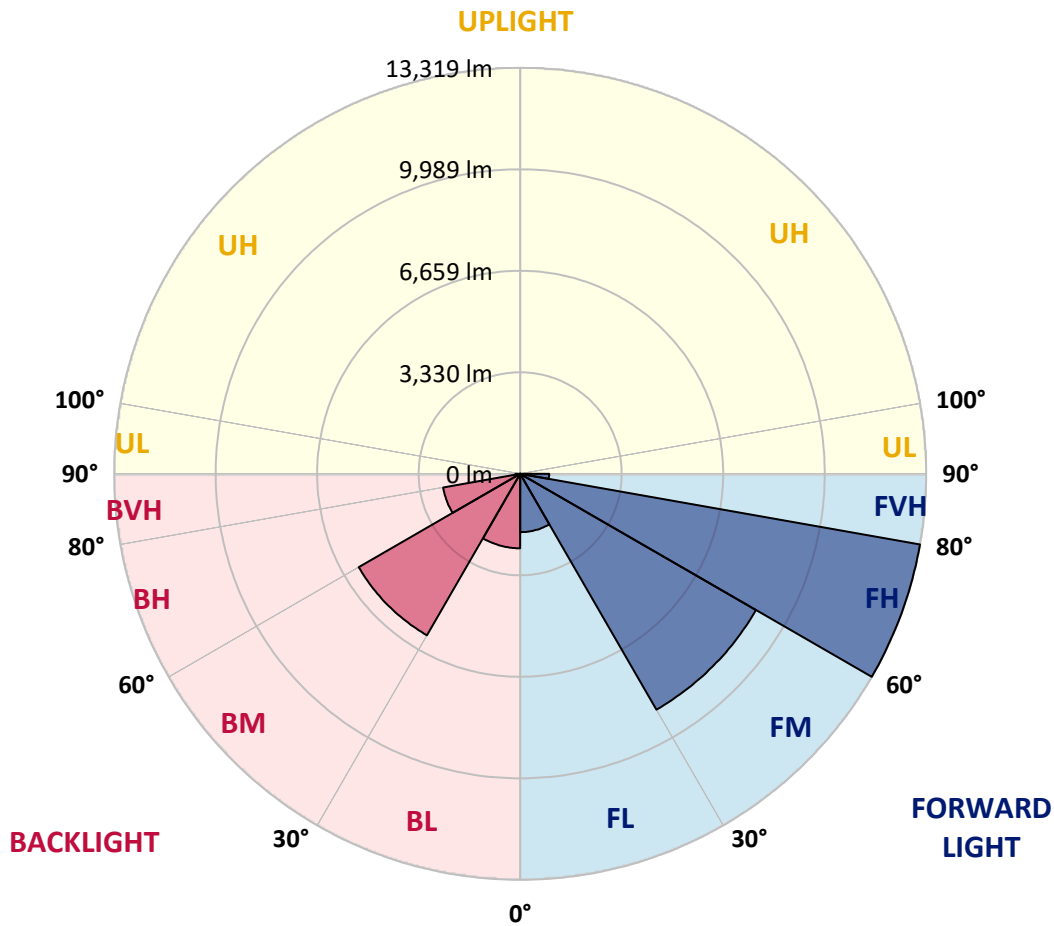
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1914.3	5.3			
FM (30°-60°)	8933.4	24.5			
FH (60°-80°)	13318.9	36.6			G5
FVH (80°-90°)	950.0	2.6			G5
BL (0°-30°)	2442.4	6.7	B3/2500		
BM (30°-60°)	6115.9	16.8	B4/8500		
BH (60°-80°)	2565.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	151.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5
2.5°	4097.8	4120.9	4115.1	4107.4	4107.4	4109.4	4107.4	4120.9	4134.5	4148.0
5°	4140.2	4163.4	4151.8	4142.2	4134.5	4132.5	4126.7	4124.8	4132.5	4149.9
7.5°	4223.2	4246.4	4229.0	4211.7	4196.2	4188.5	4180.8	4169.2	4163.4	4173.1
10°	4315.9	4339.1	4317.8	4286.9	4261.8	4252.2	4244.5	4232.9	4225.2	4231.0
12.5°	4408.5	4431.7	4402.7	4360.3	4327.5	4321.7	4312.0	4308.2	4306.2	4304.3
15°	4495.4	4514.7	4478.0	4427.8	4393.1	4383.4	4373.8	4379.6	4389.2	4400.8
17.5°	4563.0	4582.3	4528.2	4462.6	4429.8	4425.9	4420.1	4439.4	4466.4	4495.4
20°	4624.7	4644.0	4574.5	4485.7	4447.1	4447.1	4449.1	4489.6	4528.2	4570.7
22.5°	4711.6	4727.0	4642.1	4520.5	4464.5	4468.4	4483.8	4524.3	4572.6	4630.5
25°	4840.9	4852.5	4748.2	4586.1	4522.4	4534.0	4547.5	4566.8	4613.1	4680.7
27.5°	5049.4	5059.0	4922.0	4701.9	4605.4	4624.7	4644.0	4630.5	4651.7	4709.6
30°	5342.7	5348.5	5174.8	4883.4	4746.3	4756.0	4759.8	4703.9	4663.3	4709.6
32.5°	5690.2	5688.2	5481.7	5103.4	4906.5	4896.9	4864.1	4754.0	4659.5	4700.0
35°	6228.7	6207.5	5941.1	5412.2	5088.0	5028.1	4950.9	4810.0	4678.8	4690.3
37.5°	7120.4	7054.8	6686.2	5917.9	5358.2	5205.7	5091.8	4900.7	4721.2	4686.5
40°	8126.1	8043.1	7637.7	6610.9	5763.5	5518.4	5335.0	5030.1	4790.7	4703.9
42.5°	9318.9	9201.2	8765.0	7427.3	6277.0	5921.8	5645.8	5194.1	4893.0	4759.8
45°	10783.9	10627.6	10009.9	8348.0	6923.6	6450.7	6082.0	5443.1	5049.4	4867.9
47.5°	12264.4	12303.0	11424.8	9401.9	7699.5	7103.1	6628.2	5817.6	5277.1	5041.6
50°	13837.5	13864.5	12831.9	10569.7	8579.7	7840.4	7242.0	6236.4	5593.7	5288.7
52.5°	15065.1	15068.9	14109.6	11791.5	9496.5	8651.1	7904.1	6715.1	5960.4	5616.8
55°	15833.3	15823.6	15005.2	12947.7	10550.4	9502.3	8637.6	7259.4	6408.2	6002.9
57.5°	16391.1	16362.2	15622.9	13941.7	11673.7	10507.9	9467.5	7877.1	6937.1	6462.3
60°	16603.4	16586.1	16041.7	14800.6	12855.0	11619.7	10424.9	8568.1	7537.4	7004.6
62.5°	16684.5	16717.3	16452.9	15632.5	14119.3	12851.2	11476.9	9394.2	8212.9	7618.4
65°	16970.2	17030.0	16976.0	16721.2	15547.6	14293.0	12872.4	10376.7	8950.3	8276.6
67.5°	17535.7	17595.5	17618.7	18024.0	17292.5	16090.0	14613.4	11600.4	9813.0	8959.9
70°	17522.2	17504.8	17914.0	19060.6	19477.5	18578.0	16960.5	13105.9	10841.8	9527.4
72.5°	15949.1	15810.1	16777.1	19049.0	21295.7	21176.0	19826.8	15047.7	11729.7	9596.9
75°	11965.2	11594.6	13302.8	17167.0	21598.7	22650.7	21648.9	16252.1	11519.3	8479.3
77.5°	5116.9	4744.4	6757.6	12708.3	19330.8	21174.1	19977.4	14179.1	9195.4	5607.2
80°	1339.5	1337.6	2042.1	5761.6	13146.5	15636.4	13717.8	9156.8	5254.0	2003.5
82.5°	554.0	540.5	750.8	2240.9	6423.6	8774.6	7161.0	4084.3	1897.4	542.4
85°	206.5	204.6	364.8	774.0	2266.0	3619.1	2619.3	1044.2	472.9	264.4
87.5°	57.9	56.0	79.1	268.3	552.0	837.7	447.8	171.8	133.2	104.2
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°
4161.5	0°	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5	4161.5
4169.2	2.5°	4175.0	4184.6	4202.0	4215.5	4232.9	4252.2	4279.2	4296.6	4314.0	4325.5
4178.8	5°	4192.4	4213.6	4258.0	4302.4	4354.5	4402.7	4458.7	4499.3	4532.1	4541.7
4213.6	7.5°	4231.0	4265.7	4341.0	4416.3	4499.3	4578.4	4659.5	4728.9	4784.9	4806.2
4275.4	10°	4298.5	4344.8	4451.0	4557.2	4667.2	4788.8	4893.0	4993.4	5072.5	5105.3
4348.7	12.5°	4383.4	4441.4	4580.3	4727.0	4879.5	5047.4	5182.5	5306.1	5404.5	5448.9
4451.0	15°	4493.5	4568.7	4746.3	4943.2	5167.1	5400.7	5572.4	5709.5	5819.5	5873.5
4557.2	17.5°	4613.1	4713.5	4937.4	5234.7	5555.1	5862.0	6062.7	6163.1	6277.0	6329.1
4655.6	20°	4728.9	4852.5	5172.9	5605.3	6031.8	6358.0	6520.2	6547.2	6554.9	6560.7
4748.2	22.5°	4848.6	5014.6	5468.2	6072.4	6529.8	6755.6	6778.8	6663.0	6500.9	6425.6
4839.0	25°	4979.9	5199.9	5854.2	6587.7	6958.3	6985.3	6807.8	6525.9	6219.0	6078.1
4912.3	27.5°	5107.3	5414.2	6317.5	7079.9	7267.1	7029.7	6647.5	6248.0	5877.4	5728.8
4964.4	30°	5234.7	5659.3	6829.0	7510.3	7408.0	6919.7	6394.7	5948.8	5576.3	5420.0
5010.8	32.5°	5364.0	5945.0	7417.7	7821.1	7382.9	6686.2	6080.1	5613.0	5284.8	5120.8
5051.3	35°	5510.7	6296.3	7975.5	7991.0	7215.0	6342.6	5665.1	5211.5	4925.8	4794.6
5099.5	37.5°	5701.8	6742.1	8467.7	8033.4	6921.6	5838.8	5149.7	4736.7	4501.2	4441.4
5171.0	40°	5939.2	7278.7	8844.1	7965.9	6487.3	5226.9	4586.1	4256.1	4122.9	4136.4
5267.5	42.5°	6248.0	7879.0	9108.5	7792.1	5883.2	4595.8	4092.0	3945.3	4009.0	4063.0
5412.2	45°	6649.5	8502.5	9272.6	7496.8	5199.9	4061.1	3800.5	3835.3	3883.5	3889.3
5645.8	47.5°	7162.9	9133.6	9380.7	7051.0	4503.1	3684.7	3615.2	3623.0	3613.3	3572.8
5995.1	50°	7803.7	9747.4	9477.2	6460.3	3910.5	3449.2	3356.6	3329.6	3196.4	3065.1
6460.3	52.5°	8533.3	10311.0	9517.7	5726.9	3449.2	3252.4	3101.8	2931.9	2683.0	2642.4
7045.2	55°	9344.0	10832.2	9413.5	4825.5	3061.3	2999.5	2771.7	2567.1	2540.1	2505.4
7815.3	57.5°	10313.0	11393.9	9201.2	3819.8	2663.7	2704.2	2482.2	2505.4	2457.1	2403.1
8805.5	60°	11372.6	11974.9	8828.7	2903.0	2252.5	2335.5	2406.9	2405.0	2391.5	2347.1
9849.7	62.5°	12326.1	12357.0	8095.2	2223.6	1891.6	2049.9	2244.8	2242.9	2231.3	2206.2
10940.3	65°	12893.6	12299.1	6871.5	1750.7	1594.3	1814.4	2024.8	2040.2	2042.1	2040.2
11760.6	67.5°	12793.3	11621.6	5192.2	1393.6	1349.2	1575.0	1806.7	1827.9	1843.3	1847.2
11864.8	70°	11658.3	10133.5	3385.5	1111.8	1131.1	1364.6	1600.1	1621.4	1634.9	1650.3
10295.6	72.5°	9087.3	7450.5	1937.9	899.5	940.0	1183.2	1395.5	1420.6	1428.3	1457.3
7164.8	75°	5537.7	4381.5	1046.2	708.4	772.1	1011.4	1192.9	1221.8	1235.3	1270.1
3518.7	77.5°	2632.8	1897.4	596.4	552.0	621.5	826.1	1007.6	1040.4	1003.7	1023.0
970.9	80°	889.8	704.5	376.4	420.8	474.8	644.7	806.8	839.6	762.4	758.6
322.3	82.5°	310.8	285.7	239.3	279.9	306.9	461.3	609.9	652.4	567.5	565.5
144.8	85°	121.6	115.8	133.2	152.5	183.4	283.7	401.5	422.7	349.4	281.8
42.5	87.5°	25.1	27.0	32.8	34.7	56.0	98.4	144.8	177.6	140.9	119.7
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>
4161.5
4317.8
4545.6
4808.1
5107.3
5448.9
5869.7
6327.1
6576.1
6446.8
6099.4
5746.2
5437.3
5142.0
4823.5
4483.8
4182.7
4113.2
3927.9
3603.7
3082.5
2655.9
2511.2
2393.4
2331.7
2196.5
2040.2
1851.0
1658.0
1468.9
1273.9
1007.6
750.8
538.5
277.9
110.0
0.0

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