

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: P941342

Luminaire Tested: **GALN-SB4D-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941342  
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-SB4D-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

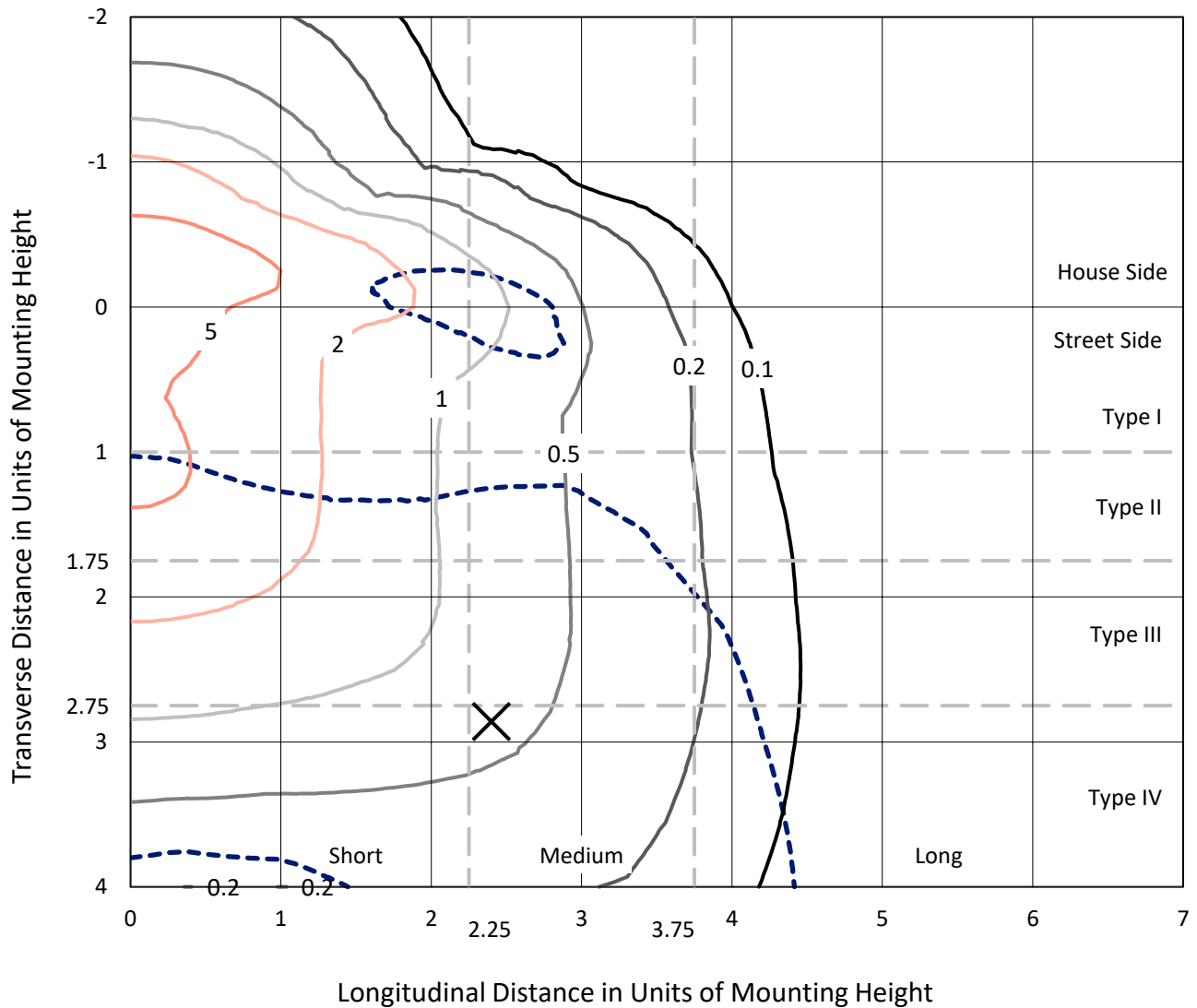
Lumens per Lamp: N/A  
Luminaire Lumens: 36326 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

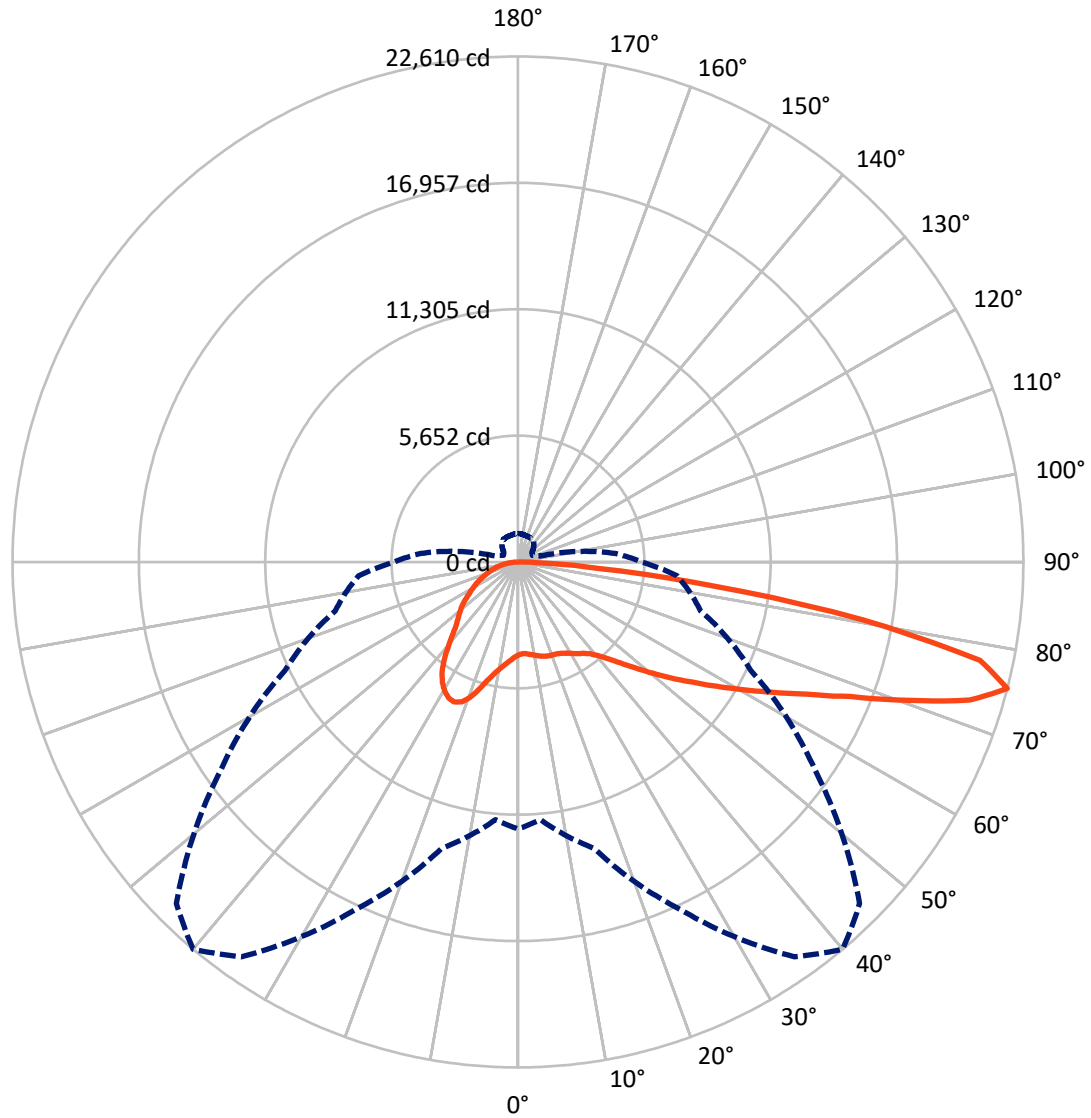
✕ Max cd  
 - - - 1/2 Max cd



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	11255.0	0.0	11255.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	25071.0	0.0	25071.0
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	36326.0	0.0	36326.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.6	1.1
10°-20°	1392.1	3.8
20°-30°	2541.9	7.0
30°-40°	3605.2	9.9
40°-50°	4868.0	13.4
50°-60°	6548.8	18.0
60°-70°	8312.0	22.9
70°-80°	7543.6	20.8
80°-90°	1099.6	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°	36326.0	100.0
0°-180°	36326.0	100.0



REPORT NUMBER: P941342

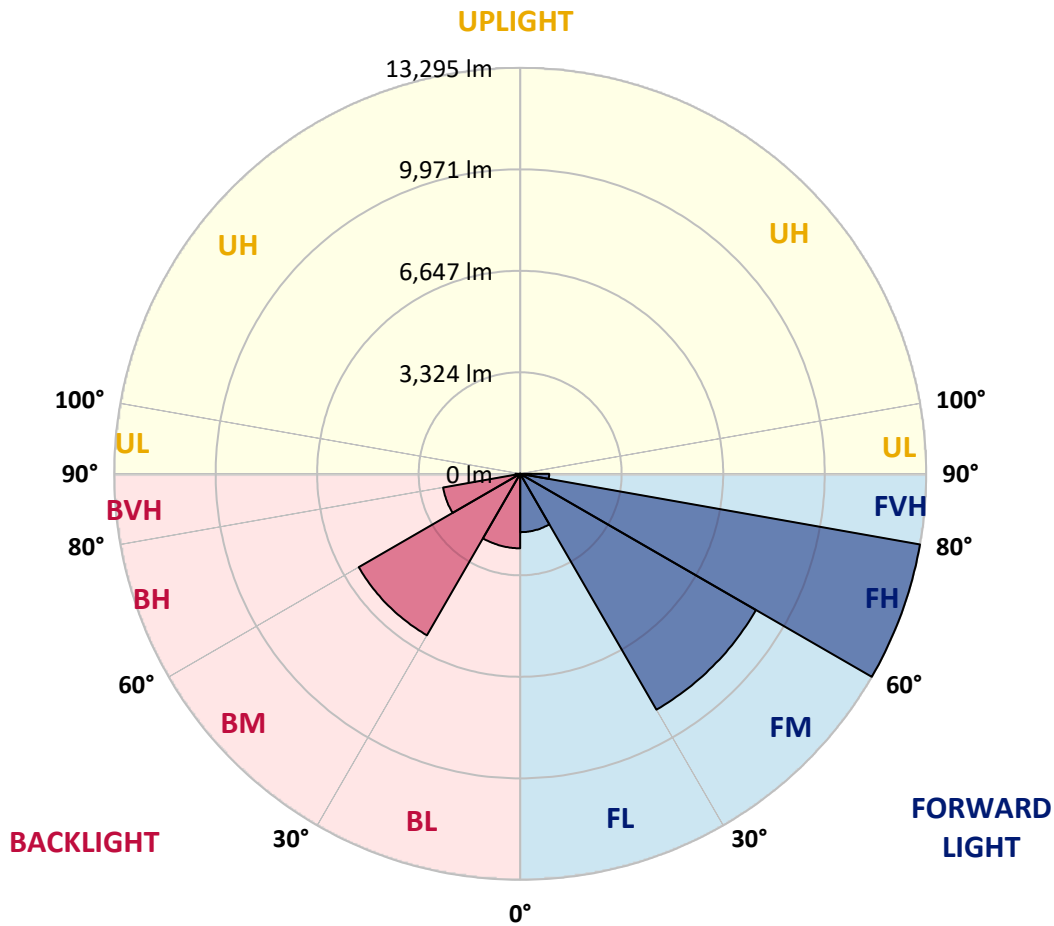
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.8	5.3			
FM (30°-60°)	8917.2	24.5			
FH (60°-80°)	13294.8	36.6			G5
FVH (80°-90°)	948.2	2.6			G5
BL (0°-30°)	2437.9	6.7	B3/2500		
BM (30°-60°)	6104.8	16.8	B4/8500		
BH (60°-80°)	2560.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	151.4	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°	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9
2.5°	4090.3	4113.5	4107.7	4100.0	4100.0	4101.9	4100.0	4113.5	4127.0	4140.4
5°	4132.7	4155.9	4144.3	4134.7	4127.0	4125.0	4119.2	4117.3	4125.0	4142.4
7.5°	4215.6	4238.7	4221.4	4204.0	4188.6	4180.9	4173.2	4161.6	4155.9	4165.5
10°	4308.1	4331.2	4310.0	4279.2	4254.1	4244.5	4236.8	4225.2	4217.5	4223.3
12.5°	4400.5	4423.7	4394.8	4352.4	4319.6	4313.8	4304.2	4300.4	4298.4	4296.5
15°	4487.2	4506.5	4469.9	4419.8	4385.1	4375.5	4365.9	4371.6	4381.3	4392.8
17.5°	4554.7	4573.9	4520.0	4454.5	4421.7	4417.9	4412.1	4431.4	4458.3	4487.2
20°	4616.3	4635.6	4566.2	4477.6	4439.1	4439.1	4441.0	4481.5	4520.0	4562.4
22.5°	4703.0	4718.4	4633.7	4512.3	4456.4	4460.3	4475.7	4516.1	4564.3	4622.1
25°	4832.1	4843.7	4739.6	4577.8	4514.2	4525.8	4539.3	4558.5	4604.8	4672.2
27.5°	5040.2	5049.8	4913.0	4693.4	4597.1	4616.3	4635.6	4622.1	4643.3	4701.1
30°	5333.1	5338.8	5165.4	4874.5	4737.7	4747.3	4751.2	4695.3	4654.9	4701.1
32.5°	5679.9	5677.9	5471.8	5094.1	4897.6	4888.0	4855.2	4745.4	4651.0	4691.5
35°	6217.4	6196.2	5930.3	5402.4	5078.7	5019.0	4941.9	4801.3	4670.3	4681.8
37.5°	7107.5	7042.0	6674.0	5907.2	5348.5	5196.3	5082.6	4891.8	4712.7	4678.0
40°	8111.3	8028.5	7623.9	6598.9	5753.1	5508.4	5325.3	5020.9	4782.0	4695.3
42.5°	9302.0	9184.5	8749.1	7413.9	6265.6	5911.1	5635.5	5184.7	4884.1	4751.2
45°	10764.4	10608.3	9991.8	8332.9	6911.0	6439.0	6071.0	5433.2	5040.2	4859.1
47.5°	12242.1	12280.7	11404.0	9384.9	7685.5	7090.2	6616.2	5807.0	5267.5	5032.5
50°	13812.4	13839.4	12808.6	10550.5	8564.1	7826.2	7228.9	6225.1	5583.5	5279.1
52.5°	15037.8	15041.6	14084.0	11770.1	9479.3	8635.4	7889.8	6702.9	5949.6	5606.6
55°	15804.6	15794.9	14978.0	12924.2	10531.2	9485.1	8621.9	7246.3	6396.6	5992.0
57.5°	16361.4	16332.5	15594.6	13916.4	11652.6	10488.9	9450.4	7862.8	6924.5	6450.5
60°	16573.3	16556.0	16012.7	14773.8	12831.7	11598.6	10406.0	8552.5	7523.7	6991.9
62.5°	16654.2	16687.0	16423.0	15604.2	14093.7	12827.8	11456.1	9377.2	8198.0	7604.6
65°	16939.4	16999.1	16945.2	16690.8	15519.4	14267.1	12849.0	10357.8	8934.0	8261.6
67.5°	17503.9	17563.6	17586.8	17991.4	17261.1	16060.8	14586.9	11579.4	9795.3	8943.7
70°	17490.4	17473.1	17881.5	19026.0	19442.1	18544.3	16929.8	13082.2	10822.2	9510.1
72.5°	15920.2	15781.5	16746.7	19014.4	21257.1	21137.6	19790.9	15020.4	11708.4	9579.5
75°	11943.5	11573.6	13278.7	17135.9	21559.6	22609.6	21609.7	16222.7	11498.4	8463.9
77.5°	5107.6	4735.8	6745.3	12685.3	19295.7	21135.7	19941.2	14153.4	9178.7	5597.0
80°	1337.1	1335.2	2038.4	5751.1	13122.6	15608.1	13692.9	9140.2	5244.4	1999.9
82.5°	553.0	539.5	749.5	2236.9	6412.0	8758.7	7148.0	4076.9	1893.9	541.4
85°	206.2	204.2	364.1	772.6	2261.9	3612.5	2614.5	1042.3	472.0	264.0
87.5°	57.8	55.9	79.0	267.8	551.0	836.2	447.0	171.5	132.9	104.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941342  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4153.9	0°	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9	4153.9
4161.6	2.5°	4167.4	4177.0	4194.4	4207.9	4225.2	4244.5	4271.5	4288.8	4306.1	4317.7
4171.3	5°	4184.8	4205.9	4250.3	4294.6	4346.6	4394.8	4450.6	4491.1	4523.8	4533.5
4205.9	7.5°	4223.3	4258.0	4333.1	4408.2	4491.1	4570.1	4651.0	4720.4	4776.2	4797.4
4267.6	10°	4290.7	4337.0	4442.9	4548.9	4658.7	4780.1	4884.1	4984.3	5063.3	5096.1
4340.8	12.5°	4375.5	4433.3	4572.0	4718.4	4870.7	5038.3	5173.1	5296.4	5394.7	5439.0
4442.9	15°	4485.3	4560.5	4737.7	4934.2	5157.7	5390.9	5562.3	5699.1	5808.9	5862.9
4548.9	17.5°	4604.8	4705.0	4928.5	5225.2	5545.0	5851.3	6051.7	6151.9	6265.6	6317.6
4647.2	20°	4720.4	4843.7	5163.5	5595.1	6020.9	6346.5	6508.3	6535.3	6543.0	6548.8
4739.6	22.5°	4839.8	5005.5	5458.3	6061.3	6518.0	6743.4	6766.5	6650.9	6489.1	6413.9
4830.2	25°	4970.8	5190.5	5843.6	6575.8	6945.7	6972.7	6795.4	6514.1	6207.8	6067.1
4903.4	27.5°	5098.0	5404.3	6306.0	7067.1	7254.0	7017.0	6635.5	6236.7	5866.7	5718.4
4955.4	30°	5225.2	5649.0	6816.6	7496.7	7394.6	6907.2	6383.1	5938.0	5566.2	5410.1
5001.7	32.5°	5354.2	5934.2	7404.2	7806.9	7369.6	6674.0	6069.0	5602.8	5275.3	5111.5
5042.1	35°	5500.7	6284.8	7961.1	7976.5	7201.9	6331.1	5654.8	5202.0	4916.9	4785.9
5090.3	37.5°	5691.4	6729.9	8452.4	8018.9	6909.1	5828.2	5140.4	4728.1	4493.0	4433.3
5161.6	40°	5928.4	7265.5	8828.1	7951.4	6475.6	5217.5	4577.8	4248.3	4115.4	4128.9
5257.9	42.5°	6236.7	7864.7	9092.0	7778.0	5872.5	4587.4	4084.6	3938.1	4001.7	4055.7
5402.4	45°	6637.4	8487.0	9255.8	7483.2	5190.5	4053.7	3793.6	3828.3	3876.5	3882.3
5635.5	47.5°	7149.9	9117.1	9363.7	7038.2	4494.9	3678.0	3608.7	3616.4	3606.7	3566.3
5984.3	50°	7789.6	9729.7	9460.0	6448.6	3903.5	3443.0	3350.5	3323.5	3190.6	3059.6
6448.6	52.5°	8517.9	10292.3	9500.5	5716.5	3443.0	3246.5	3096.2	2926.6	2678.1	2637.6
7032.4	55°	9327.1	10812.5	9396.4	4816.7	3055.7	2994.1	2766.7	2562.5	2535.5	2500.8
7801.1	57.5°	10294.3	11373.2	9184.5	3812.9	2658.8	2699.3	2477.7	2500.8	2452.7	2398.7
8789.5	60°	11352.0	11953.1	8812.6	2897.7	2248.4	2331.3	2402.6	2400.6	2387.2	2342.8
9831.9	62.5°	12303.8	12334.6	8080.5	2219.5	1888.1	2046.1	2240.7	2238.8	2227.2	2202.2
10920.4	65°	12870.2	12276.8	6859.0	1747.5	1591.4	1811.1	2021.1	2036.5	2038.4	2036.5
11739.3	67.5°	12770.0	11600.6	5182.8	1391.1	1346.8	1572.2	1803.4	1824.6	1840.0	1843.8
11843.3	70°	11637.2	10115.1	3379.4	1109.8	1129.0	1362.2	1597.2	1618.4	1631.9	1647.3
10276.9	72.5°	9070.8	7437.0	1934.4	897.8	938.3	1181.1	1393.0	1418.0	1425.7	1454.6
7151.8	75°	5527.7	4373.6	1044.3	707.1	770.7	1009.6	1190.7	1219.6	1233.1	1267.8
3512.3	77.5°	2628.0	1893.9	595.3	551.0	620.4	824.6	1005.7	1038.5	1001.9	1021.1
969.1	80°	888.2	703.2	375.7	420.0	474.0	643.5	805.4	838.1	761.0	757.2
321.8	82.5°	310.2	285.1	238.9	279.4	306.3	460.5	608.8	651.2	566.4	564.5
144.5	85°	121.4	115.6	132.9	152.2	183.0	283.2	400.7	421.9	348.7	281.3
42.4	87.5°	25.0	27.0	32.8	34.7	55.9	98.3	144.5	177.3	140.6	119.5
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>
4153.9
4310.0
4537.3
4799.4
5098.0
5439.0
5859.0
6315.7
6564.2
6435.1
6088.3
5735.7
5427.5
5132.7
4814.8
4475.7
4175.1
4105.8
3920.8
3597.1
3076.9
2651.1
2506.6
2389.1
2327.4
2192.6
2036.5
1847.7
1655.0
1466.2
1271.6
1005.7
749.5
537.5
277.4
109.8
0.0

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