

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: P950369

Luminaire Tested: **GALN-SB4D-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950369  
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-SB4D-830-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

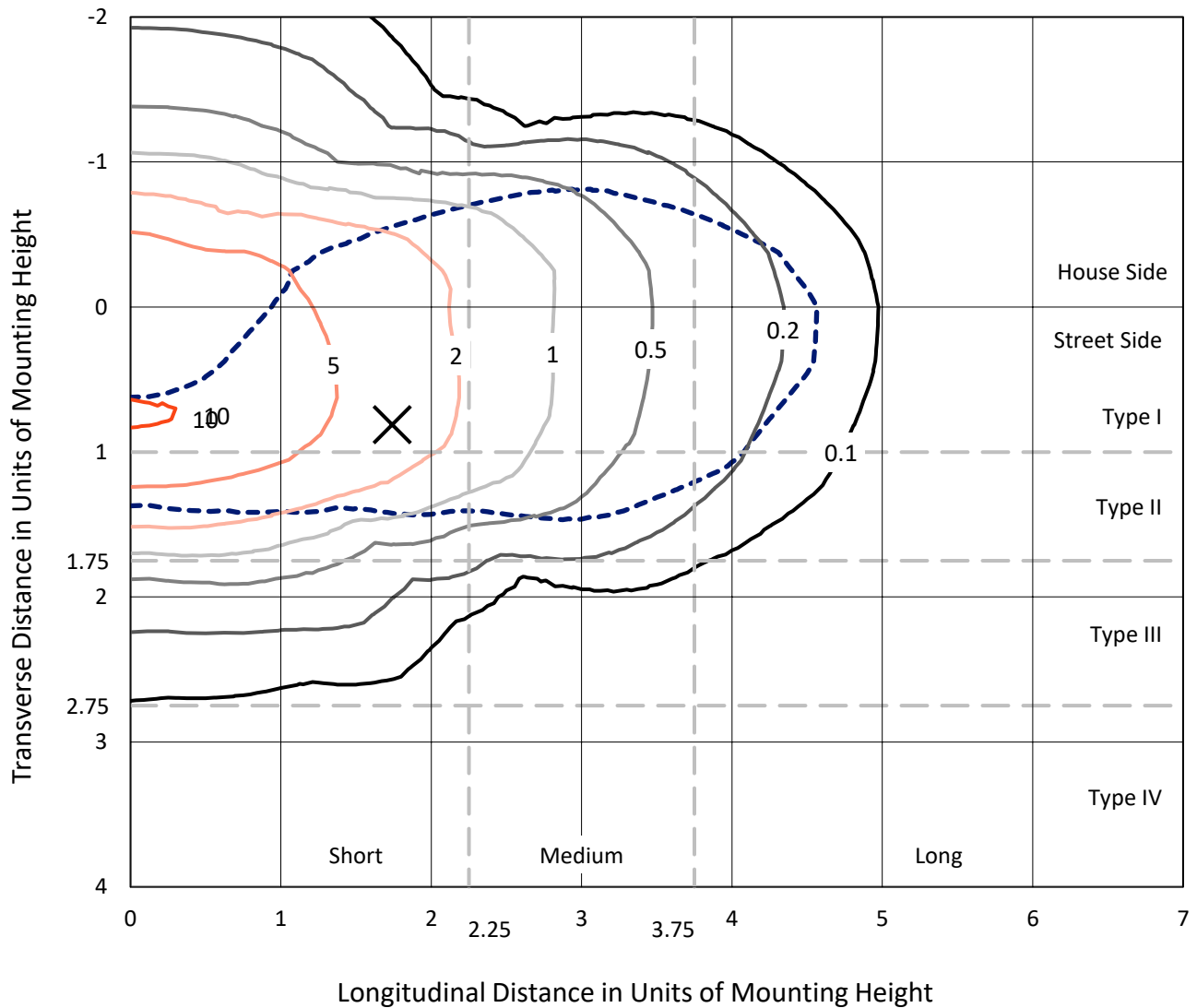
Lumens per Lamp: N/A  
Luminaire Lumens: 37137 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

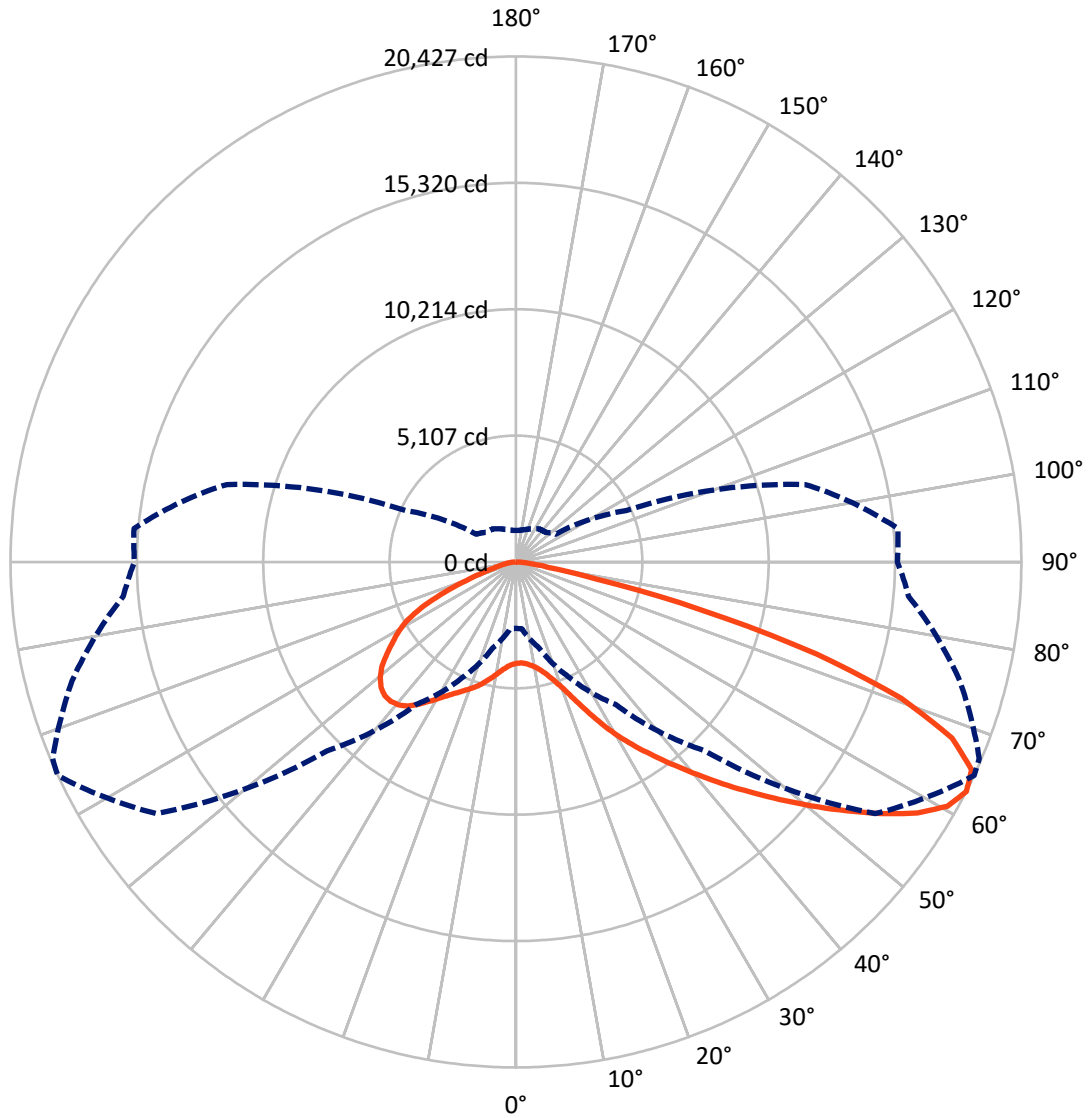
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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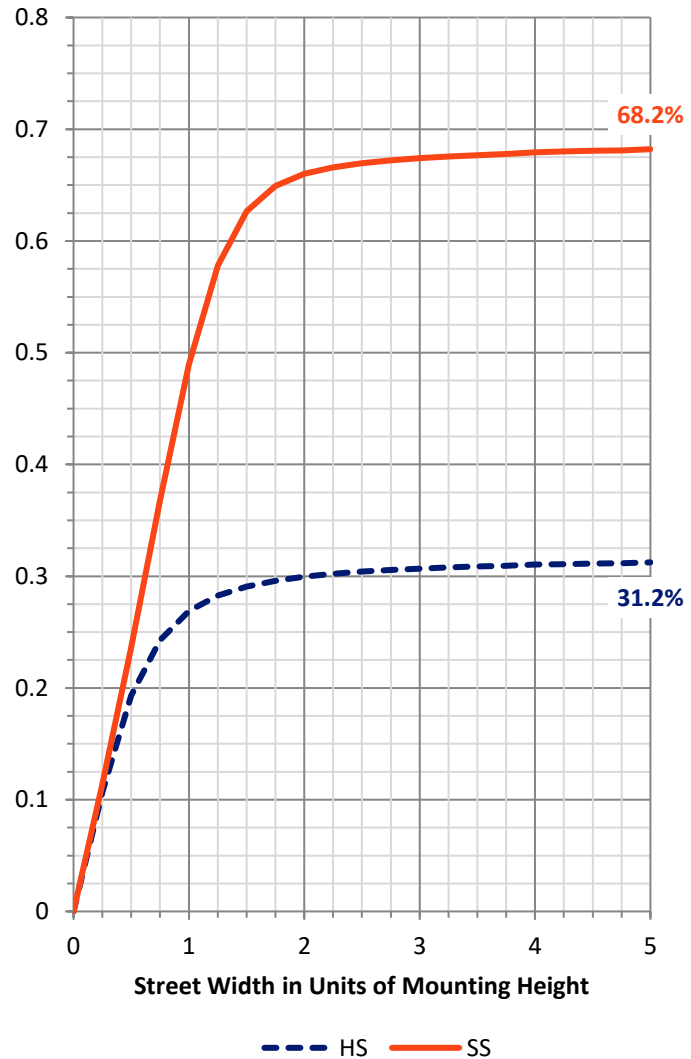
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11718.8	0.0	11718.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	25418.2	0.0	25418.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	37137.0	0.0	37137.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.0	1.1
10°-20°	1383.6	3.7
20°-30°	2805.3	7.6
30°-40°	4854.6	13.1
40°-50°	7346.5	19.8
50°-60°	8613.3	23.2
60°-70°	7221.2	19.4
70°-80°	3986.7	10.7
80°-90°	517.9	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°	37137.0	100.0
0°-180°	37137.0	100.0

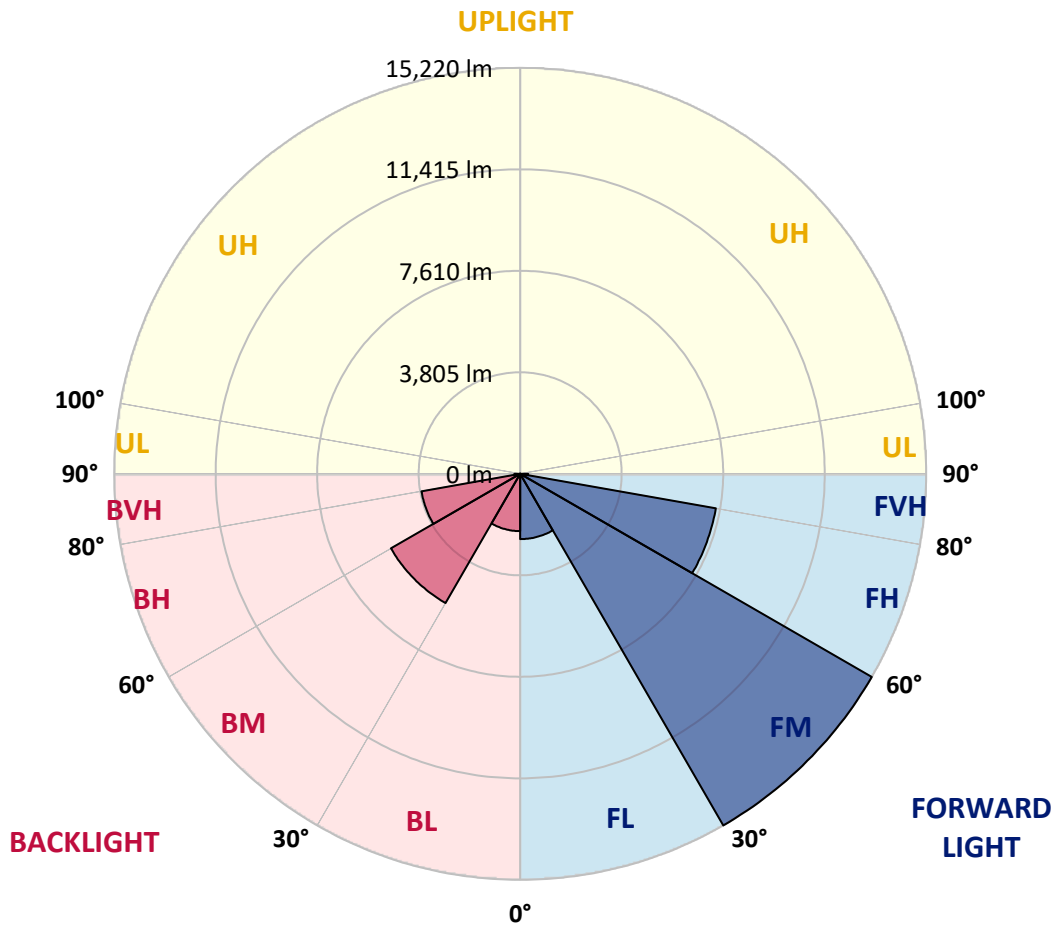


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2447.8	6.6			
FM (30°-60°)	15219.9	41.0			
FH (60°-80°)	7448.6	20.1			G3/7500
FVH (80°-90°)	301.8	0.8			G3/500
BL (0°-30°)	2149.1	5.8	B3/2500		
BM (30°-60°)	5594.4	15.1	B4/8500		
BH (60°-80°)	3759.3	10.1	B4/5000		G4/5000
BVH (80°-90°)	216.0	0.6			G2/225
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°	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3
2.5°	4065.4	4053.8	4063.4	4063.4	4067.3	4065.4	4078.8	4082.7	4088.5	4100.0
5°	4024.9	4023.0	4040.3	4055.7	4071.1	4084.6	4102.0	4127.0	4130.9	4144.4
7.5°	4011.4	3999.9	4026.8	4046.1	4082.7	4115.5	4161.7	4204.1	4221.4	4227.2
10°	4115.5	4096.2	4121.2	4132.8	4163.6	4196.4	4250.3	4317.8	4337.0	4360.1
12.5°	4292.7	4271.5	4308.1	4325.5	4354.4	4383.3	4419.9	4485.4	4495.0	4537.4
15°	4535.5	4510.4	4533.6	4554.7	4602.9	4629.9	4666.5	4730.1	4730.1	4762.8
17.5°	4864.9	4832.2	4849.5	4857.2	4888.1	4928.5	4990.2	5046.1	5075.0	5063.4
20°	5356.3	5315.8	5315.8	5277.3	5265.7	5298.5	5379.4	5456.4	5487.3	5427.5
22.5°	6094.2	6036.4	6003.6	5872.6	5820.6	5824.5	5905.4	5999.8	6024.8	5918.9
25°	7032.5	6941.9	6897.6	6705.0	6587.4	6485.3	6548.9	6670.3	6705.0	6573.9
27.5°	7970.8	7976.6	7934.2	7703.0	7508.4	7321.5	7288.8	7415.9	7452.5	7304.2
30°	9286.8	9150.0	9069.0	8791.6	8514.1	8252.1	8117.2	8169.3	8178.9	8001.6
32.5°	10421.6	10386.9	10213.5	9970.7	9614.3	9203.9	8978.5	8895.6	8880.2	8627.8
35°	11714.4	11695.1	11512.1	11223.1	10837.8	10267.4	9860.9	9623.9	9604.7	9250.1
37.5°	13028.4	13028.4	12849.2	12533.3	12134.4	11421.5	10803.1	10427.4	10365.7	9903.3
40°	14076.6	14013.0	14045.7	13912.8	13456.2	12699.0	11849.3	11304.0	11221.2	10666.3
42.5°	14671.9	14650.7	14847.2	14995.6	14808.7	14203.7	13001.5	12253.9	12138.3	11506.3
45°	14804.9	14781.7	15132.4	15675.7	15937.8	15689.2	14253.8	13253.9	13113.2	12384.9
47.5°	14498.5	14452.3	14966.7	15824.1	16664.1	17101.5	15610.2	14338.6	14134.4	13240.4
50°	13577.5	13533.2	14311.6	15450.3	16908.8	18061.0	17082.2	15488.8	15176.7	14157.5
52.5°	11575.7	11596.9	12816.5	14381.0	16587.1	18658.3	18350.0	16700.7	16325.0	15095.8
55°	9017.0	9063.3	10562.2	12284.7	15300.0	18567.7	19215.1	17949.2	17575.5	15978.2
57.5°	6456.4	6660.6	8065.2	9770.4	12828.0	17132.3	19403.9	19136.1	18773.9	16941.6
60°	4184.8	4221.4	5666.5	7385.1	9768.4	14581.4	19020.5	20035.9	19752.7	17924.2
62.5°	2682.0	2707.0	3587.5	5165.5	7030.6	10787.7	17729.6	20427.0	20340.3	18573.5
65°	1971.0	1951.8	2410.3	3414.1	4735.9	6652.9	15223.0	20238.2	20409.7	18980.0
67.5°	1645.4	1618.4	1843.9	2364.1	3489.3	3778.3	11263.6	19010.9	19639.0	18933.8
70°	1499.0	1475.9	1612.7	1755.2	2722.4	2529.8	5678.0	16527.3	17494.5	18407.8
72.5°	1269.7	1229.2	1416.1	1558.7	2117.5	1940.2	2346.7	12695.1	13874.3	16721.9
75°	984.5	957.6	1117.5	1371.8	1591.5	1514.4	1483.6	7708.8	8995.8	12932.1
77.5°	780.3	743.7	890.1	1069.3	1431.5	1142.5	1080.9	3319.7	4595.2	8256.0
80°	587.6	554.9	676.3	845.8	1100.2	861.2	699.4	1354.5	1732.1	4182.9
82.5°	418.1	389.2	472.0	620.4	739.9	772.6	429.7	759.1	853.5	1612.7
85°	267.8	250.5	316.0	389.2	470.1	497.1	262.0	396.9	435.4	664.7
87.5°	146.4	119.5	169.6	181.1	217.7	198.5	125.2	144.5	156.1	240.8
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°
4092.3	0°	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3	4092.3
4100.0	2.5°	4107.8	4113.5	4132.8	4138.6	4152.1	4169.4	4181.0	4192.5	4192.5	4204.1
4161.7	5°	4163.6	4177.1	4217.6	4238.8	4273.4	4308.1	4329.3	4354.4	4369.8	4377.5
4260.0	7.5°	4271.5	4292.7	4350.5	4387.1	4446.9	4495.0	4527.8	4562.5	4570.2	4591.4
4396.8	10°	4418.0	4443.0	4508.5	4577.9	4649.2	4708.9	4739.7	4764.8	4774.4	4778.2
4572.1	12.5°	4585.6	4622.2	4707.0	4791.7	4866.9	4918.9	4926.6	4920.8	4893.8	4870.7
4787.9	15°	4791.7	4824.5	4918.9	5011.4	5084.6	5094.2	5046.1	5015.2	4982.5	4976.7
5028.7	17.5°	5038.4	5055.7	5142.4	5232.9	5238.7	5206.0	5134.7	5105.8	5075.0	5053.8
5342.8	20°	5325.4	5319.7	5381.3	5419.8	5379.4	5279.2	5171.3	5123.1	5092.3	5067.3
5728.1	22.5°	5668.4	5624.1	5616.4	5606.7	5498.8	5288.8	5142.4	5080.7	5032.6	4997.9
6265.7	25°	6167.4	5997.9	5880.3	5814.8	5572.1	5236.8	5049.9	4913.1	4822.6	4762.8
6922.7	27.5°	6791.7	6506.5	6209.8	6049.9	5572.1	5130.8	4826.4	4604.8	4456.5	4394.8
7558.5	30°	7387.0	7088.4	6651.0	6333.1	5558.6	4957.4	4466.1	4157.8	3984.4	3922.8
8101.8	32.5°	7895.7	7570.1	7119.2	6643.3	5525.8	4676.1	4019.1	3678.1	3510.5	3437.3
8639.4	35°	8367.7	8020.9	7589.3	6984.3	5439.1	4263.8	3527.8	3267.7	3080.8	2963.3
9186.6	37.5°	8851.3	8439.0	8034.4	7292.6	5283.0	3782.1	3150.2	2928.6	2709.0	2551.0
9768.4	40°	9377.3	8884.1	8510.3	7475.6	5026.8	3323.6	2857.3	2655.0	2421.9	2254.3
10438.9	42.5°	9991.9	9417.8	9040.1	7570.1	4676.1	2998.0	2666.6	2468.1	2248.5	2111.7
11157.6	45°	10633.5	10005.4	9523.7	7568.1	4285.0	2845.8	2604.9	2408.4	2165.6	2023.0
11895.5	47.5°	11305.9	10620.0	9941.8	7444.8	3945.9	2866.9	2570.2	2279.3	2011.5	1872.8
12641.2	50°	11980.3	11292.5	10346.4	7213.6	3801.4	2820.7	2441.1	2098.2	1782.2	1657.0
13340.6	52.5°	12648.9	12007.3	10695.2	6884.1	3655.0	2649.2	2275.4	1863.1	1687.8	1601.1
14063.1	55°	13321.3	12714.4	11074.7	6404.4	3288.9	2448.9	1998.0	1774.5	1612.7	1533.7
14770.2	57.5°	13995.6	13531.3	11435.0	5924.6	2828.4	2202.2	1845.8	1666.6	1537.5	1470.1
15361.7	60°	14697.0	14465.8	11806.9	5483.4	2373.7	1886.3	1734.0	1579.9	1448.9	1373.7
15930.1	62.5°	15419.5	15494.6	12097.8	4915.0	1955.6	1693.6	1633.9	1475.9	1348.7	1277.4
16400.2	65°	16147.8	16486.9	12288.6	4127.0	1585.7	1510.5	1526.0	1362.2	1233.1	1171.4
16745.1	67.5°	16696.9	17201.7	12234.6	3123.2	1300.5	1337.1	1391.1	1242.7	1121.3	1073.2
16689.2	70°	16758.5	17116.9	11702.8	2138.7	1088.6	1167.6	1240.8	1125.2	1000.0	965.3
15903.1	72.5°	15937.8	15960.9	10221.2	1396.9	921.0	1025.0	1082.8	1005.7	884.4	849.7
13912.8	75°	13785.6	13199.9	7504.5	921.0	770.7	880.5	934.5	880.5	763.0	770.7
10410.0	77.5°	10444.7	9348.4	4556.7	655.1	643.5	739.9	813.1	774.5	674.3	757.2
5234.9	80°	5381.3	5057.6	2032.7	489.4	508.7	591.5	668.6	618.5	533.7	508.7
1169.5	82.5°	1233.1	1433.5	801.5	350.7	368.0	425.8	510.6	464.3	383.4	323.7
487.5	85°	431.6	472.0	354.5	219.6	215.8	265.9	346.8	310.2	260.1	208.1
206.2	87.5°	136.8	179.2	132.9	88.6	92.5	119.5	159.9	146.4	121.4	79.0
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>
4092.3
4204.1
4381.3
4583.6
4768.6
4870.7
4976.7
5055.7
5069.2
5009.5
4786.0
4425.7
3959.4
3473.9
3001.8
2593.4
2287.0
2138.7
2046.2
1892.0
1664.7
1601.1
1526.0
1458.5
1368.0
1275.5
1169.5
1075.1
967.2
847.8
743.7
666.6
464.3
319.8
219.6
82.8
0.0

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