

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: P943932

Luminaire Tested: **GALN-SB8C-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943932
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-SB8C-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36539 lumens
Efficiency: N/A
Efficacy: 91.4 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

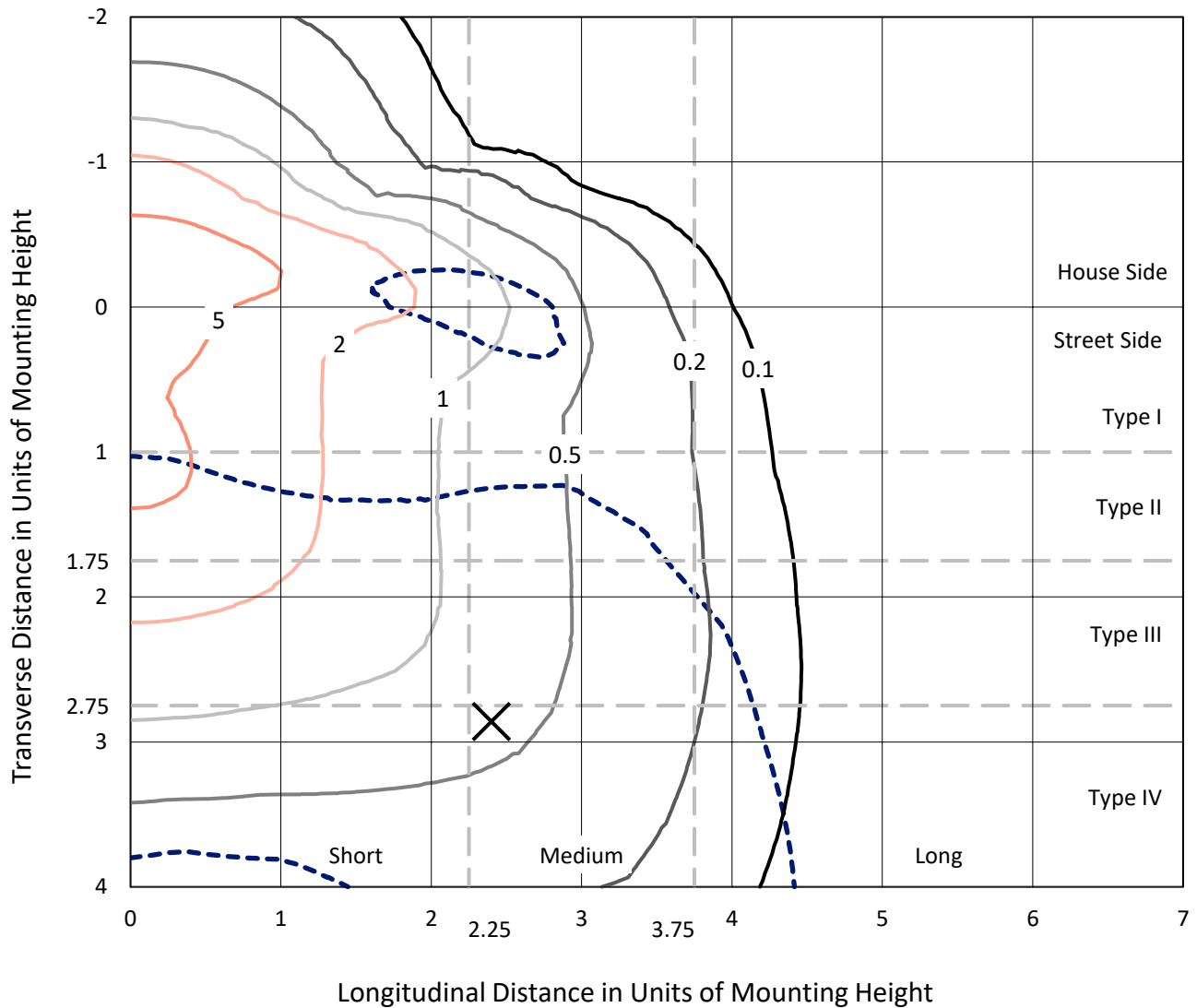
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

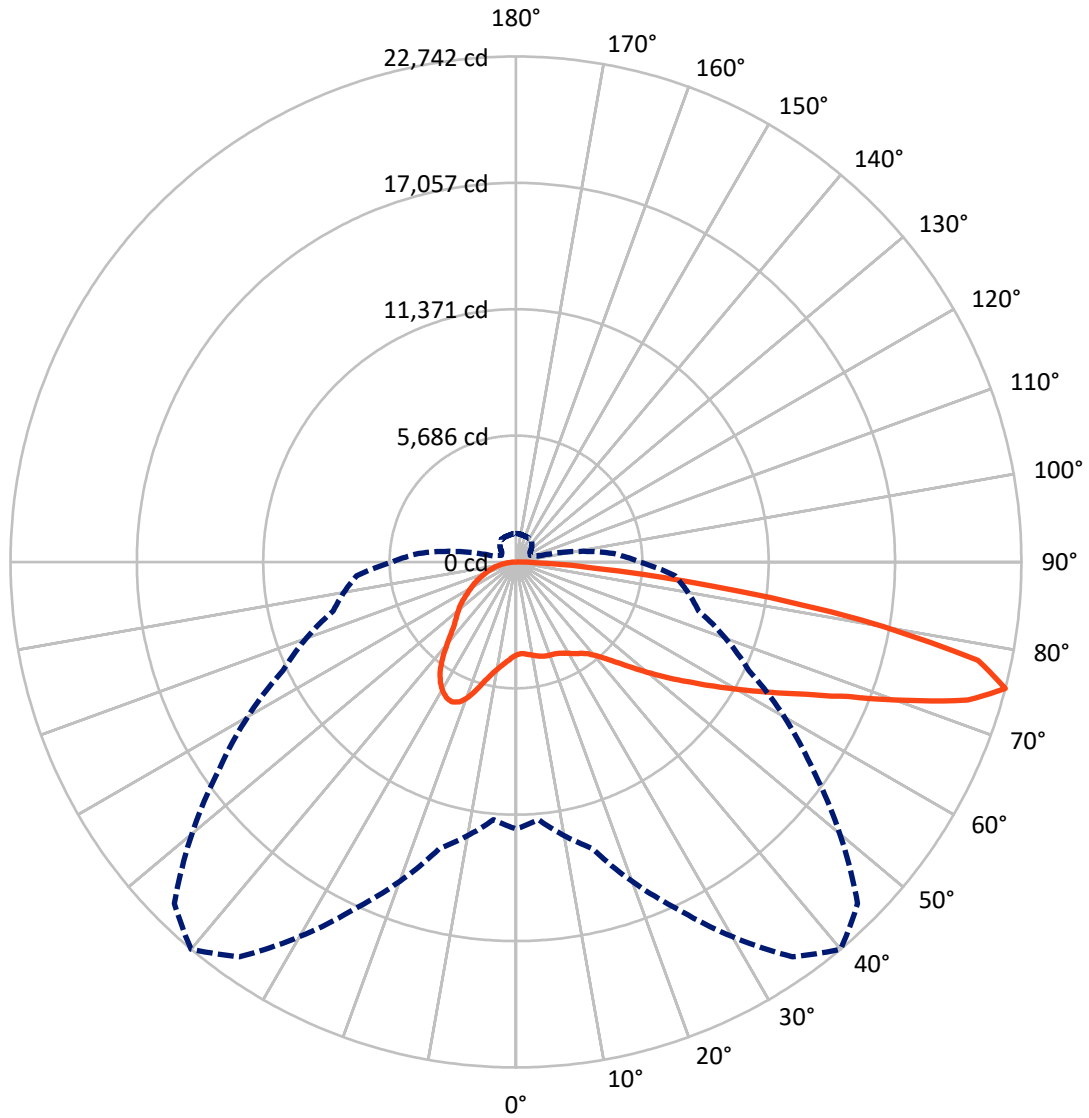
✕ Max cd
 - - - 1/2 Max cd



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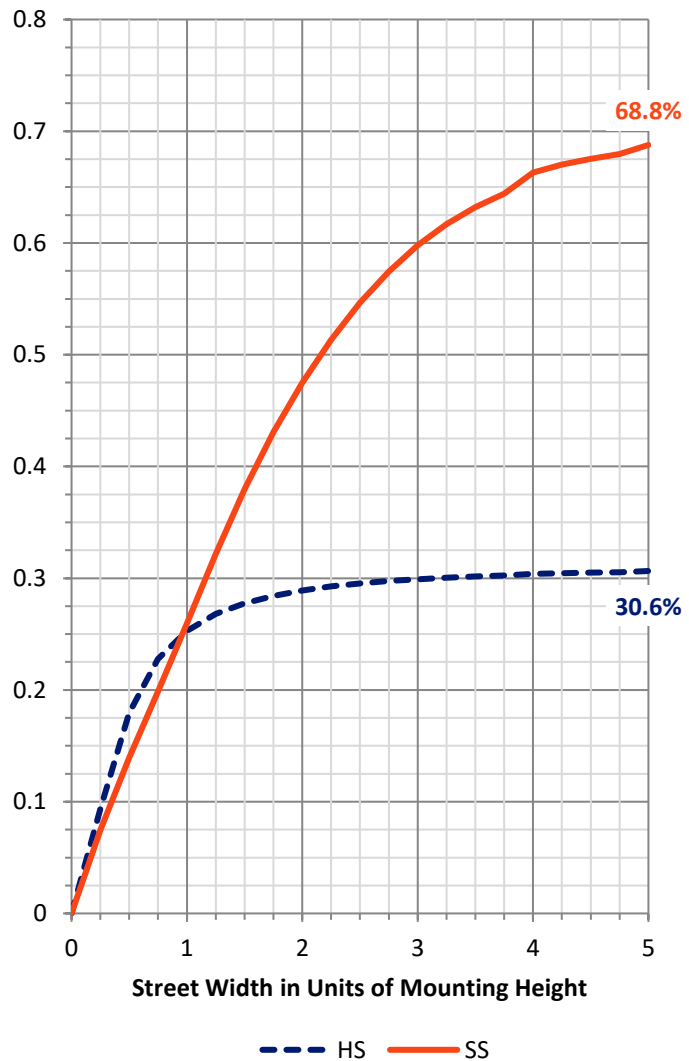
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11321.0	0.0	11321.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25218.0	0.0	25218.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	36539.0	0.0	36539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.1	1.1
10°-20°	1400.3	3.8
20°-30°	2556.8	7.0
30°-40°	3626.3	9.9
40°-50°	4896.6	13.4
50°-60°	6587.2	18.0
60°-70°	8360.7	22.9
70°-80°	7587.9	20.8
80°-90°	1106.1	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°	36539.0	100.0
0°-180°	36539.0	100.0

Coefficient of Utilization



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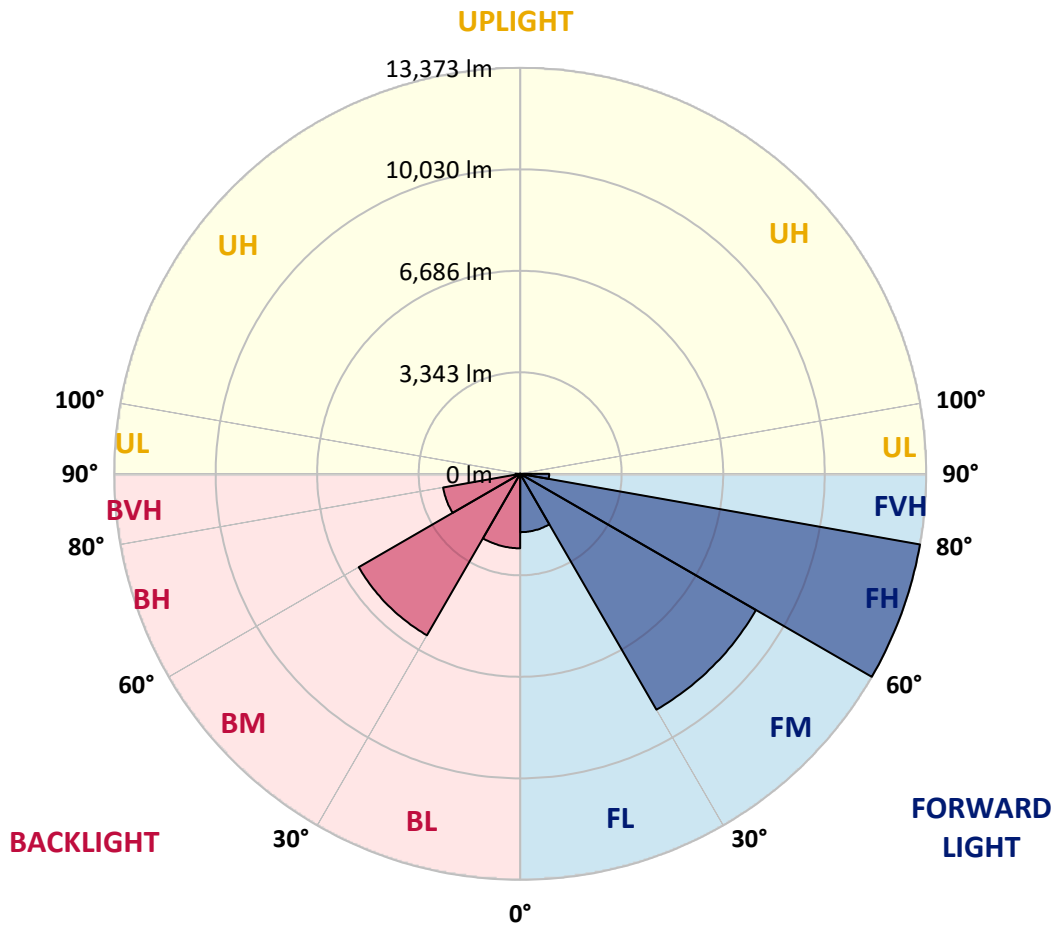
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.0	5.3			
FM (30°-60°)	8969.5	24.5			
FH (60°-80°)	13372.7	36.6			G5
FVH (80°-90°)	953.8	2.6			G5
BL (0°-30°)	2452.2	6.7	B3/2500		
BM (30°-60°)	6140.6	16.8	B4/8500		
BH (60°-80°)	2575.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	152.3	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°	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3
2.5°	4114.3	4137.6	4131.8	4124.0	4124.0	4126.0	4124.0	4137.6	4151.2	4164.7
5°	4157.0	4180.2	4168.6	4158.9	4151.2	4149.2	4143.4	4141.5	4149.2	4166.7
7.5°	4240.3	4263.6	4246.1	4228.7	4213.2	4205.4	4197.7	4186.0	4180.2	4189.9
10°	4333.3	4356.6	4335.3	4304.3	4279.1	4269.4	4261.6	4250.0	4242.2	4248.1
12.5°	4426.3	4449.6	4420.5	4377.9	4344.9	4339.1	4329.4	4325.6	4323.6	4321.7
15°	4513.6	4532.9	4496.1	4445.7	4410.8	4401.2	4391.5	4397.3	4407.0	4418.6
17.5°	4581.4	4600.8	4546.5	4480.6	4447.7	4443.8	4438.0	4457.4	4484.5	4513.6
20°	4643.4	4662.8	4593.0	4503.9	4465.1	4465.1	4467.0	4507.7	4546.5	4589.1
22.5°	4730.6	4746.1	4660.8	4538.7	4482.5	4486.4	4501.9	4542.6	4591.1	4649.2
25°	4860.5	4872.1	4767.4	4604.6	4540.7	4552.3	4565.9	4585.3	4631.8	4699.6
27.5°	5069.8	5079.4	4941.8	4720.9	4624.0	4643.4	4662.8	4649.2	4670.5	4728.7
30°	5364.3	5370.1	5195.7	4903.1	4765.5	4775.2	4779.1	4722.9	4682.2	4728.7
32.5°	5713.2	5711.2	5503.9	5124.0	4926.3	4916.7	4883.7	4773.2	4678.3	4719.0
35°	6253.9	6232.5	5965.1	5434.1	5108.5	5048.4	4970.9	4829.4	4697.7	4709.3
37.5°	7149.2	7083.3	6713.2	5941.8	5379.8	5226.7	5112.4	4920.5	4740.3	4705.4
40°	8158.9	8075.6	7668.6	6637.6	5786.8	5540.7	5356.6	5050.4	4810.1	4722.9
42.5°	9356.6	9238.3	8800.4	7457.3	6302.3	5945.7	5668.6	5215.1	4912.8	4779.1
45°	10827.5	10670.5	10050.4	8381.8	6951.5	6476.7	6106.6	5465.1	5069.8	4887.6
47.5°	12313.9	12352.7	11470.9	9439.9	7730.6	7131.8	6655.0	5841.1	5298.4	5062.0
50°	13893.4	13920.5	12883.7	10612.4	8614.3	7872.1	7271.3	6261.6	5616.3	5310.1
52.5°	15125.9	15129.8	14166.6	11839.1	9534.9	8686.0	7936.0	6742.2	5984.5	5639.5
55°	15897.2	15887.6	15065.9	13000.0	10593.0	9540.7	8672.5	7288.7	6434.1	6027.1
57.5°	16457.3	16428.3	15686.0	13998.0	11720.9	10550.4	9505.8	7908.9	6965.1	6488.4
60°	16670.5	16653.1	16106.5	14860.4	12906.9	11666.6	10467.0	8602.7	7567.8	7032.9
62.5°	16751.9	16784.8	16519.3	15695.7	14176.3	12903.1	11523.2	9432.1	8246.1	7649.2
65°	17038.7	17098.8	17044.5	16788.7	15610.4	14350.7	12924.4	10418.6	8986.4	8310.1
67.5°	17606.5	17666.6	17689.9	18096.9	17362.4	16155.0	14672.4	11647.3	9852.7	8996.1
70°	17593.0	17575.5	17986.4	19137.5	19556.1	18653.1	17029.0	13158.9	10885.6	9565.9
72.5°	16013.5	15874.0	16844.9	19125.9	21381.7	21261.6	19906.9	15108.5	11777.1	9635.6
75°	12013.5	11641.4	13356.6	17236.4	21686.0	22742.2	21736.4	16317.8	11565.9	8513.5
77.5°	5137.6	4763.6	6784.9	12759.7	19408.9	21259.6	20058.1	14236.4	9232.5	5629.8
80°	1345.0	1343.0	2050.4	5784.9	13199.6	15699.6	13773.2	9193.8	5275.2	2011.6
82.5°	556.2	542.6	753.9	2250.0	6449.6	8810.1	7189.9	4100.8	1905.0	544.6
85°	207.4	205.4	366.3	777.1	2275.2	3633.7	2629.8	1048.4	474.8	265.5
87.5°	58.1	56.2	79.5	269.4	554.3	841.1	449.6	172.5	133.7	104.7
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°
4178.3	0°	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3	4178.3
4186.0	2.5°	4191.8	4201.5	4219.0	4232.5	4250.0	4269.4	4296.5	4313.9	4331.4	4343.0
4195.7	5°	4209.3	4230.6	4275.2	4319.8	4372.1	4420.5	4476.7	4517.4	4550.4	4560.1
4230.6	7.5°	4248.1	4282.9	4358.5	4434.1	4517.4	4596.9	4678.3	4748.0	4804.3	4825.6
4292.6	10°	4315.9	4362.4	4469.0	4575.6	4686.0	4808.1	4912.8	5013.6	5093.0	5126.0
4366.3	12.5°	4401.2	4459.3	4598.8	4746.1	4899.2	5067.8	5203.5	5327.5	5426.3	5470.9
4469.0	15°	4511.6	4587.2	4765.5	4963.2	5188.0	5422.5	5594.9	5732.5	5843.0	5897.3
4575.6	17.5°	4631.8	4732.5	4957.4	5255.8	5577.5	5885.6	6087.2	6188.0	6302.3	6354.6
4674.4	20°	4748.0	4872.1	5193.8	5627.9	6056.2	6383.7	6546.5	6573.6	6581.4	6587.2
4767.4	22.5°	4868.2	5034.9	5490.3	6096.9	6556.2	6782.9	6806.2	6689.9	6527.1	6451.5
4858.5	25°	5000.0	5220.9	5877.9	6614.3	6986.4	7013.5	6835.3	6552.3	6244.2	6102.7
4932.2	27.5°	5127.9	5436.0	6343.0	7108.5	7296.5	7058.1	6674.4	6273.2	5901.1	5751.9
4984.5	30°	5255.8	5682.2	6856.6	7540.7	7438.0	6947.7	6420.5	5972.9	5598.8	5441.8
5031.0	32.5°	5385.6	5969.0	7447.7	7852.7	7412.8	6713.2	6104.6	5635.6	5306.2	5141.5
5071.7	35°	5532.9	6321.7	8007.7	8023.2	7244.2	6368.2	5688.0	5232.5	4945.7	4813.9
5120.1	37.5°	5724.8	6769.4	8501.9	8065.9	6949.6	5862.4	5170.5	4755.8	4519.4	4459.3
5191.8	40°	5963.2	7308.1	8879.8	7998.0	6513.5	5248.0	4604.6	4273.2	4139.5	4153.1
5288.7	42.5°	6273.2	7910.8	9145.3	7823.6	5907.0	4614.3	4108.5	3961.2	4025.2	4079.4
5434.1	45°	6676.3	8536.8	9310.1	7527.1	5220.9	4077.5	3815.9	3850.8	3899.2	3905.0
5668.6	47.5°	7191.8	9170.5	9418.6	7079.4	4521.3	3699.6	3629.8	3637.6	3627.9	3587.2
6019.4	50°	7835.3	9786.8	9515.5	6486.4	3926.3	3463.2	3370.1	3343.0	3209.3	3077.5
6486.4	52.5°	8567.8	10352.7	9556.2	5750.0	3463.2	3265.5	3114.3	2943.8	2693.8	2653.1
7073.6	55°	9381.8	10875.9	9451.5	4844.9	3073.6	3011.6	2782.9	2577.5	2550.4	2515.5
7846.9	57.5°	10354.6	11439.9	9238.3	3835.3	2674.4	2715.1	2492.2	2515.5	2467.0	2412.8
8841.1	60°	11418.6	12023.2	8864.3	2914.7	2261.6	2345.0	2416.7	2414.7	2401.2	2356.6
9889.5	62.5°	12375.9	12406.9	8127.9	2232.6	1899.2	2058.1	2253.9	2251.9	2240.3	2215.1
10984.5	65°	12945.7	12348.8	6899.2	1757.7	1600.8	1821.7	2032.9	2048.4	2050.4	2048.4
11808.1	67.5°	12844.9	11668.6	5213.2	1399.2	1354.6	1581.4	1813.9	1835.3	1850.8	1854.6
11912.8	70°	11705.4	10174.4	3399.2	1116.3	1135.7	1370.2	1606.6	1627.9	1641.5	1657.0
10337.2	72.5°	9124.0	7480.6	1945.7	903.1	943.8	1188.0	1401.2	1426.4	1434.1	1463.2
7193.8	75°	5560.1	4399.2	1050.4	711.2	775.2	1015.5	1197.7	1226.7	1240.3	1275.2
3532.9	77.5°	2643.4	1905.0	598.8	554.3	624.0	829.5	1011.6	1044.6	1007.7	1027.1
974.8	80°	893.4	707.4	377.9	422.5	476.7	647.3	810.1	843.0	765.5	761.6
323.6	82.5°	312.0	286.8	240.3	281.0	308.1	463.2	612.4	655.0	569.8	567.8
145.3	85°	122.1	116.3	133.7	153.1	184.1	284.9	403.1	424.4	350.8	282.9
42.6	87.5°	25.2	27.1	32.9	34.9	56.2	98.8	145.3	178.3	141.5	120.2
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>
4178.3
4335.3
4563.9
4827.5
5127.9
5470.9
5893.4
6352.7
6602.7
6472.9
6124.0
5769.4
5459.3
5162.8
4843.0
4501.9
4199.6
4129.8
3943.8
3618.2
3095.0
2666.7
2521.3
2403.1
2341.1
2205.4
2048.4
1858.5
1664.7
1474.8
<i>1279.1</i>
1011.6
753.9
540.7
279.1
110.5
0.0

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