

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: P944737

Luminaire Tested: **GALN-SB9D-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9D-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

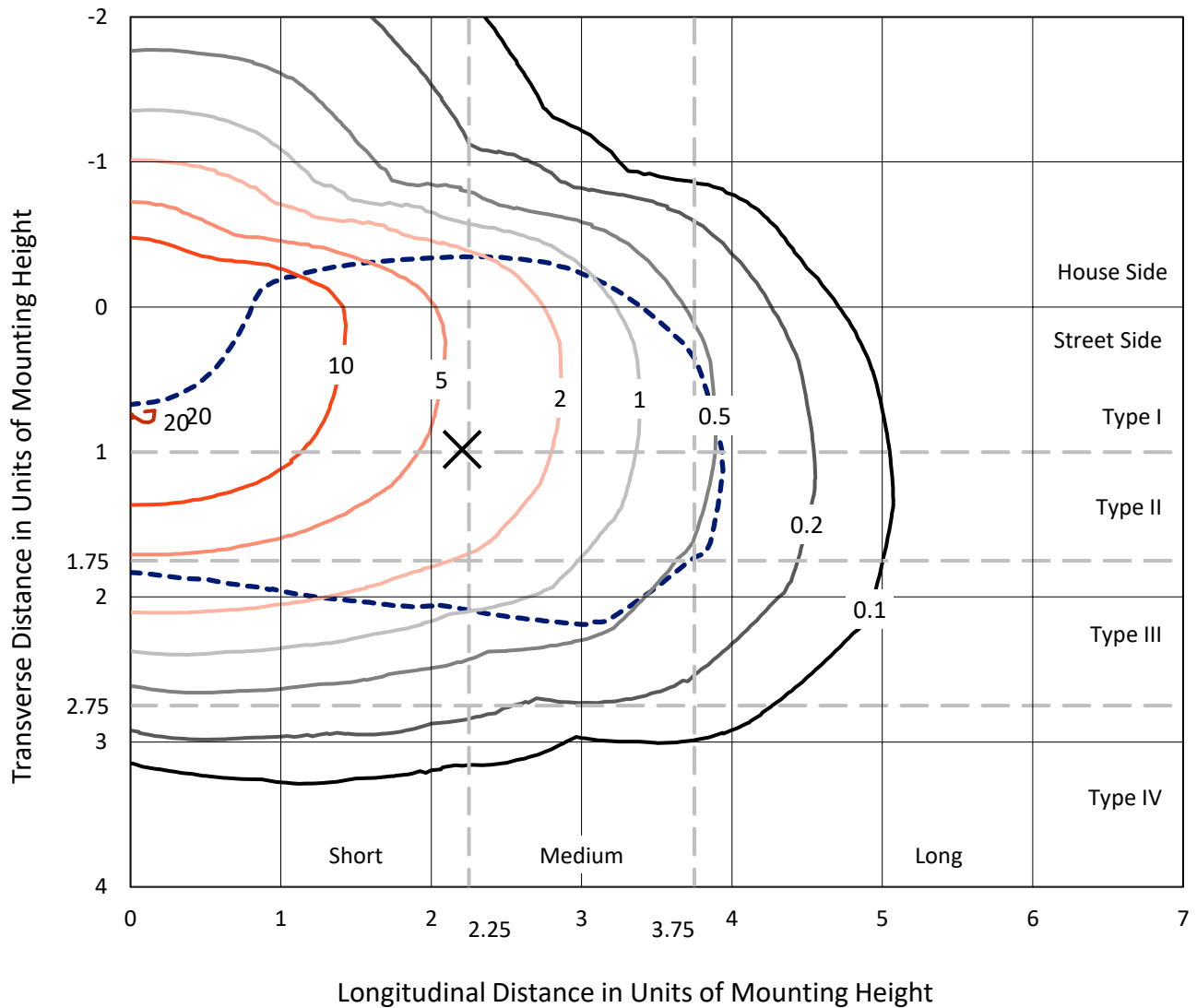
Lumens per Lamp: N/A  
Luminaire Lumens: 80652 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

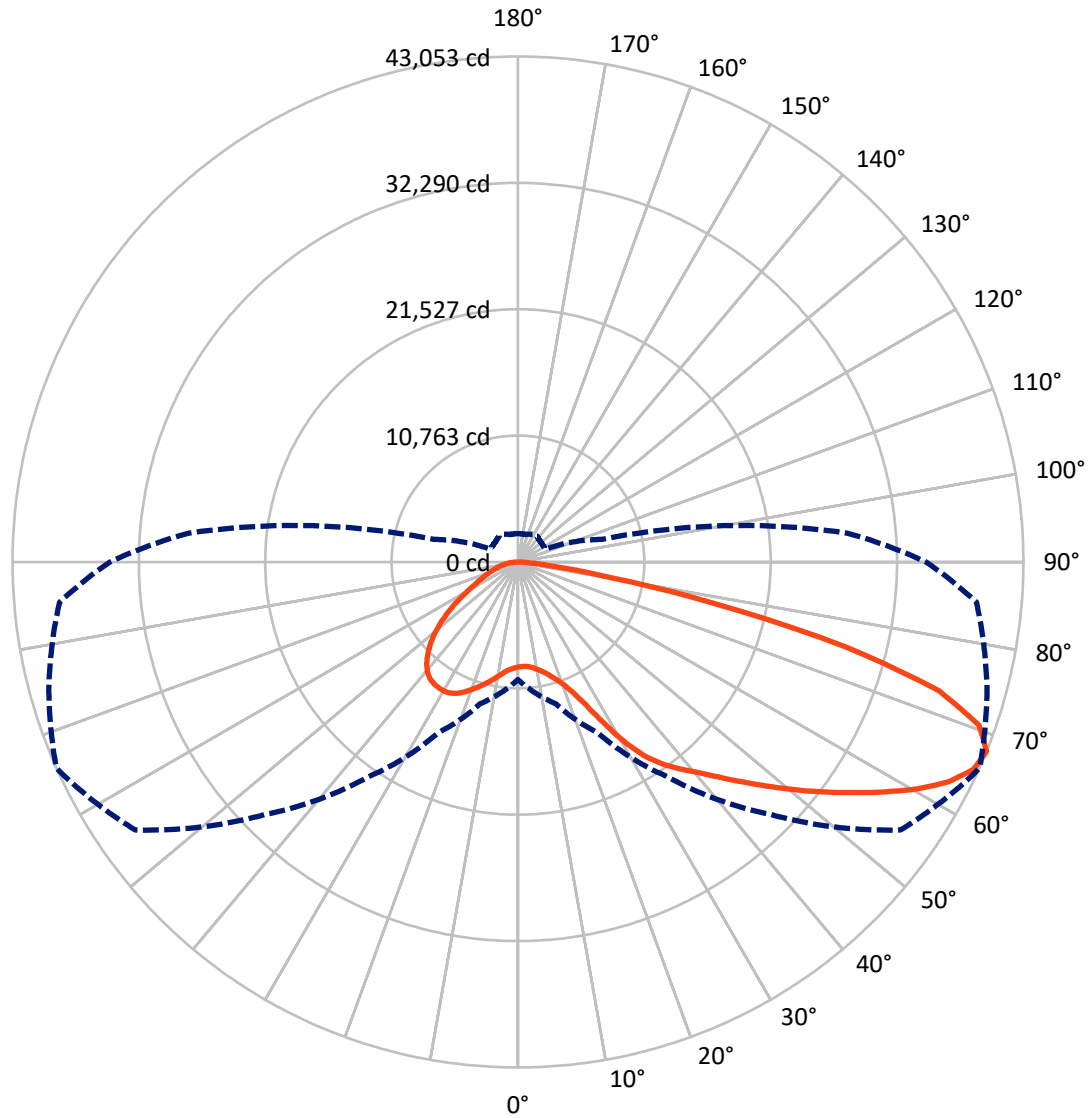
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20053.9	0.0	20053.9
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	60598.1	0.0	60598.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	80652.0	0.0	80652.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	886.9	1.1
10°-20°	2930.2	3.6
20°-30°	5647.8	7.0
30°-40°	9902.7	12.3
40°-50°	14722.0	18.3
50°-60°	18661.6	23.1
60°-70°	18259.9	22.6
70°-80°	8710.1	10.8
80°-90°	930.9	1.2
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°	80652.0	100.0
0°-180°	80652.0	100.0

**Coefficient of Utilization**



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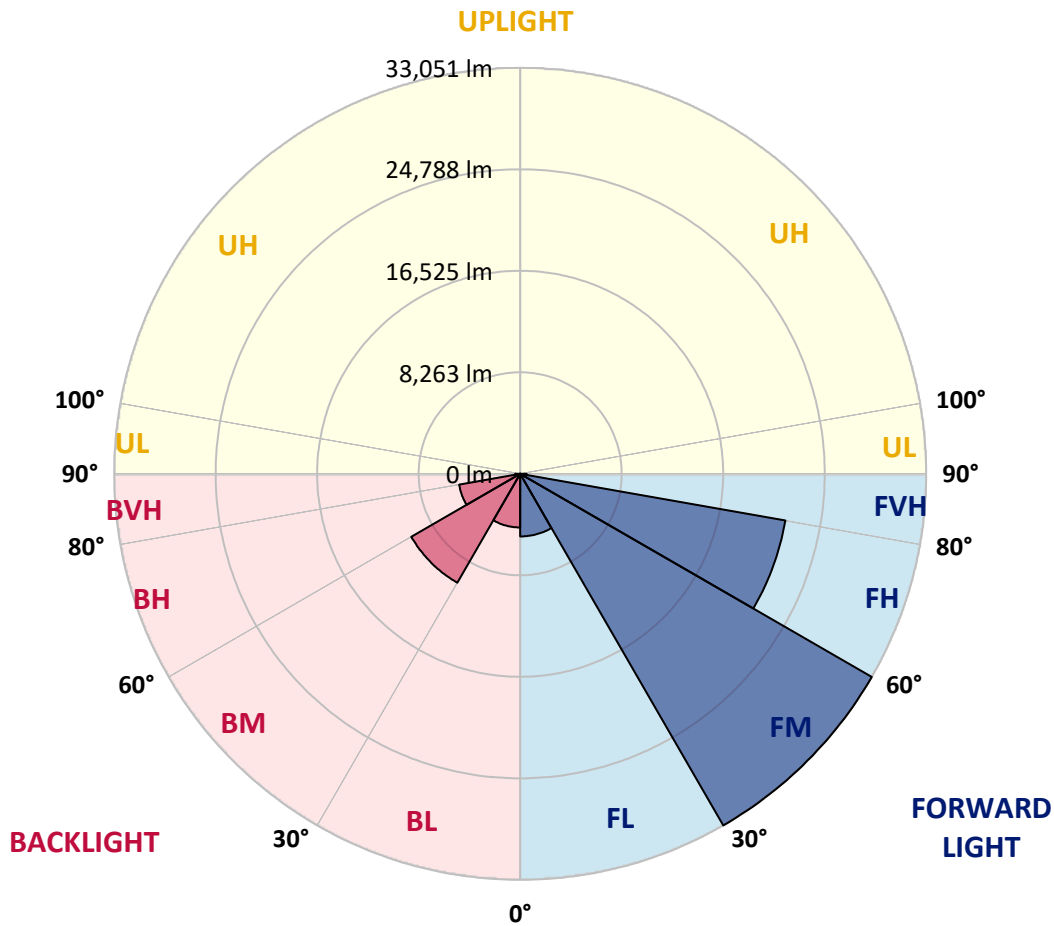
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5096.4	6.3			
FM (30°-60°)	33050.5	41.0			
FH (60°-80°)	21923.4	27.2			G5
FVH (80°-90°)	527.8	0.7			G4/750
BL (0°-30°)	4368.5	5.4	B4/5000		
BM (30°-60°)	10235.7	12.7	B5		
BH (60°-80°)	5046.6	6.3	B5		G5
BVH (80°-90°)	403.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4
2.5°	8852.1	8903.0	8890.3	8869.1	8864.9	8873.3	8886.0	8898.8	8894.5	8915.7
5°	8826.7	8877.6	8873.3	8873.3	8890.3	8924.2	8945.4	8966.6	8945.4	8970.8
7.5°	8843.7	8881.8	8898.8	8915.7	8958.1	9021.6	9072.5	9119.1	9093.7	9123.3
10°	9059.8	9089.4	9106.4	9106.4	9136.1	9208.1	9258.9	9343.7	9322.5	9369.1
12.5°	9453.9	9483.5	9483.5	9466.6	9487.8	9534.4	9551.3	9644.6	9606.4	9682.7
15°	9936.9	9996.3	9949.7	9920.0	9928.5	9975.1	9970.8	10042.9	10004.7	10068.3
17.5°	10470.9	10547.1	10470.9	10466.6	10449.7	10500.5	10504.8	10568.3	10500.5	10547.1
20°	11102.3	11208.2	11144.6	11165.8	11127.7	11148.9	11170.1	11263.3	11157.4	11191.3
22.5°	11992.1	12119.3	12051.5	12132.0	12106.6	12089.6	12085.4	12250.6	12085.4	12098.1
25°	13288.8	13441.4	13322.7	13432.9	13432.9	13488.0	13551.5	13763.4	13488.0	13407.5
27.5°	15204.2	15356.7	15123.7	15191.5	15170.3	15305.9	15238.1	15763.5	15466.9	15335.5
30°	17509.4	17780.6	17339.9	17322.9	17301.7	17517.8	17615.3	17962.8	17661.9	17530.6
32.5°	20001.0	20284.9	19759.5	19606.9	19526.4	19657.8	19577.3	19856.9	19649.3	19445.9
35°	22636.8	22916.4	22416.4	22119.8	21797.7	21522.3	21234.1	21306.2	21111.2	20801.9
37.5°	25128.4	25641.1	25111.5	24793.6	24200.4	23662.2	22857.1	22522.3	22340.1	22056.2
40°	27666.7	27959.1	27556.5	27285.3	26641.2	25797.9	24509.7	23802.1	23556.3	23280.9
42.5°	29535.4	29815.1	29599.0	29412.5	28908.3	27929.4	26264.1	25378.4	25022.5	24713.1
45°	31018.5	31226.2	31090.6	31158.4	30942.3	29993.1	28081.9	27069.2	26700.5	26323.4
47.5°	31616.0	31836.4	32052.5	32455.0	32823.7	32124.5	30035.4	28899.8	28509.9	28124.3
50°	31548.2	31772.8	32400.0	33255.9	34400.1	34167.0	32094.9	30849.0	30488.8	30048.1
52.5°	31005.8	31260.1	32065.2	33489.0	35311.1	35696.7	34192.4	32861.8	32522.8	31997.4
55°	29582.0	29734.6	30942.3	32959.3	35527.2	36764.6	36247.6	35006.0	34667.0	33933.9
57.5°	26942.1	27162.4	28921.0	31531.3	34984.8	37489.2	38052.8	37260.4	36934.1	35879.0
60°	23497.0	23848.7	25861.5	29132.8	33603.4	37485.0	39692.7	39476.6	39205.4	37794.3
62.5°	19598.5	20005.3	21941.8	25742.8	31188.0	36421.4	40718.2	41332.6	41192.8	39561.3
65°	15051.6	15331.3	17259.4	21357.0	27429.4	34137.3	40836.8	42599.6	42625.1	40904.6
67.5°	10021.7	10826.8	12500.6	16026.2	22395.2	30404.1	39794.4	42807.3	43053.0	41366.5
70°	4890.1	5949.5	7589.4	10415.8	16026.2	24679.2	37069.7	41103.8	41650.4	40019.0
72.5°	2029.8	2373.0	3267.1	5140.1	9199.6	16653.4	31594.8	36484.9	37497.7	35459.4
75°	1368.7	1483.1	1868.7	2635.7	4190.9	8212.3	22785.1	27204.8	28836.2	26781.0
77.5°	1055.1	1127.2	1360.2	1843.3	2491.7	3106.1	12195.5	16394.9	17238.2	15958.4
80°	830.6	885.6	1017.0	1343.3	1767.0	1661.1	4157.0	7428.3	7915.7	6640.2
82.5°	720.4	741.6	728.9	911.1	1173.8	970.4	1364.5	2741.7	3025.6	2195.0
85°	521.2	580.5	606.0	563.6	622.9	491.6	559.4	970.4	1067.9	953.4
87.5°	211.9	313.6	385.6	364.4	228.8	139.8	173.7	283.9	326.3	356.0
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°
8945.4	0°	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4	8945.4
8949.6	2.5°	8953.8	8983.5	9004.7	9030.1	9047.1	9072.5	9123.3	9153.0	9157.2	9178.4
9017.4	5°	9034.4	9076.7	9123.3	9191.1	9267.4	9331.0	9428.4	9496.2	9521.7	9542.9
9182.7	7.5°	9208.1	9267.4	9352.2	9470.8	9581.0	9665.7	9784.4	9864.9	9945.4	9975.1
9445.4	10°	9466.6	9551.3	9674.2	9835.2	9953.9	10064.1	10187.0	10254.8	10335.3	10369.2
9759.0	12.5°	9788.6	9877.6	10038.6	10263.2	10373.4	10449.7	10492.1	10475.1	10492.1	10521.7
10136.1	15°	10157.3	10254.8	10437.0	10678.5	10754.8	10687.0	10593.8	10509.0	10496.3	10504.8
10593.8	17.5°	10593.8	10665.8	10877.7	11081.1	11026.0	10746.3	10542.9	10407.3	10339.5	10318.3
11178.5	20°	11204.0	11204.0	11377.7	11504.8	11136.2	10661.6	10343.7	10123.4	9983.6	9924.2
11975.2	22.5°	11945.5	11877.7	11987.9	11898.9	11115.0	10424.3	9983.6	9602.2	9390.3	9305.6
13089.7	25°	12886.3	12805.7	12776.1	12225.2	10962.4	10047.1	9331.0	8869.1	8682.6	8636.0
14695.7	27.5°	14305.8	14102.4	13716.8	12403.2	10682.7	9453.9	8568.2	8140.2	8034.3	8038.5
16759.3	30°	16195.7	15788.9	14844.0	12432.8	10225.1	8614.8	7788.5	7483.4	7432.6	7453.8
18492.5	32.5°	17945.8	17560.2	15996.6	12297.2	9521.7	7792.8	7089.3	6885.9	6809.7	6835.1
19814.6	35°	19318.8	19212.8	17064.4	12106.6	8657.2	7021.5	6462.2	6288.5	6140.1	6106.2
21060.4	37.5°	20615.5	20573.1	17865.3	11839.6	7801.2	6474.9	5957.9	5729.1	5513.0	5394.3
22437.6	40°	22039.3	21996.9	18390.8	11428.6	7042.7	6000.3	5504.5	5203.7	4936.7	4720.6
23997.0	42.5°	23641.0	23391.0	18640.8	10839.5	6398.6	5597.7	5135.9	4729.1	4377.3	4178.2
25759.8	45°	25391.1	24827.5	18636.5	10089.5	5856.2	5229.1	4741.8	4165.5	3839.2	3652.7
27569.2	47.5°	27247.2	26200.5	18407.7	9258.9	5330.8	4822.3	4131.6	3690.9	3474.8	3360.3
29535.4	50°	29162.5	27484.5	18017.9	8305.5	4792.6	4360.4	3750.2	3449.3	3284.1	3178.1
31484.7	52.5°	30963.4	28649.8	17547.5	7224.9	4246.0	3911.2	3580.7	3347.6	3173.9	3055.2
33374.6	55°	32637.3	29654.1	16882.2	6119.0	3801.0	3610.4	3500.2	3305.3	3106.1	2966.3
35294.2	57.5°	34124.6	30306.6	15733.9	5080.8	3483.2	3402.7	3415.4	3233.2	3004.4	2885.7
37184.1	60°	35362.0	30785.5	14034.6	4118.9	3224.7	3199.3	3284.1	3097.6	2830.7	2695.1
38781.6	62.5°	36103.5	30777.0	11949.8	3373.1	3004.4	3012.9	3110.3	2928.1	2656.9	2529.8
39616.4	65°	36040.0	30022.7	9661.5	2885.7	2792.5	2801.0	2928.1	2741.7	2512.8	2436.6
39196.9	67.5°	34764.5	28183.6	7411.4	2567.9	2559.5	2597.6	2745.9	2614.5	2423.9	2415.4
36696.8	70°	31310.9	24365.7	5339.3	2313.7	2317.9	2373.0	2567.9	2534.0	2377.2	2394.2
30853.3	72.5°	25107.2	18577.2	3584.9	2046.7	2051.0	2139.9	2398.4	2470.5	2330.6	2555.2
21890.9	75°	16721.2	11585.3	2305.2	1762.8	1767.0	1881.5	2250.1	2347.6	2203.5	2546.7
11390.4	77.5°	8034.3	5207.9	1669.6	1483.1	1483.1	1589.1	1945.0	2101.8	1877.2	1978.9
3661.2	80°	2775.6	1957.7	1313.6	1195.0	1169.6	1241.6	1639.9	1822.1	1618.7	1491.6
1195.0	82.5°	1093.3	1017.0	1055.1	928.0	843.3	889.9	1275.5	1504.3	1190.7	1076.3
673.8	85°	627.2	661.1	745.8	614.4	487.3	546.6	936.5	1080.6	898.4	792.4
220.4	87.5°	169.5	233.1	343.2	317.8	220.4	233.1	444.9	597.5	517.0	398.3
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>
8945.4
9174.2
9538.6
9979.3
10386.1
10530.2
10534.4
10348.0
9911.5
9292.8
8644.5
8051.3
7525.8
6869.0
6131.7
5398.6
4741.8
4190.9
3644.3
3334.9
3140.0
3004.4
2911.2
2809.5
2635.7
2491.7
2432.3
2428.1
2390.0
2589.1
2567.9
1813.7
1398.4
1072.1
809.4
411.0
0.0

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