

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: P957051

Luminaire Tested: **GALN-SB9C-735-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-735-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

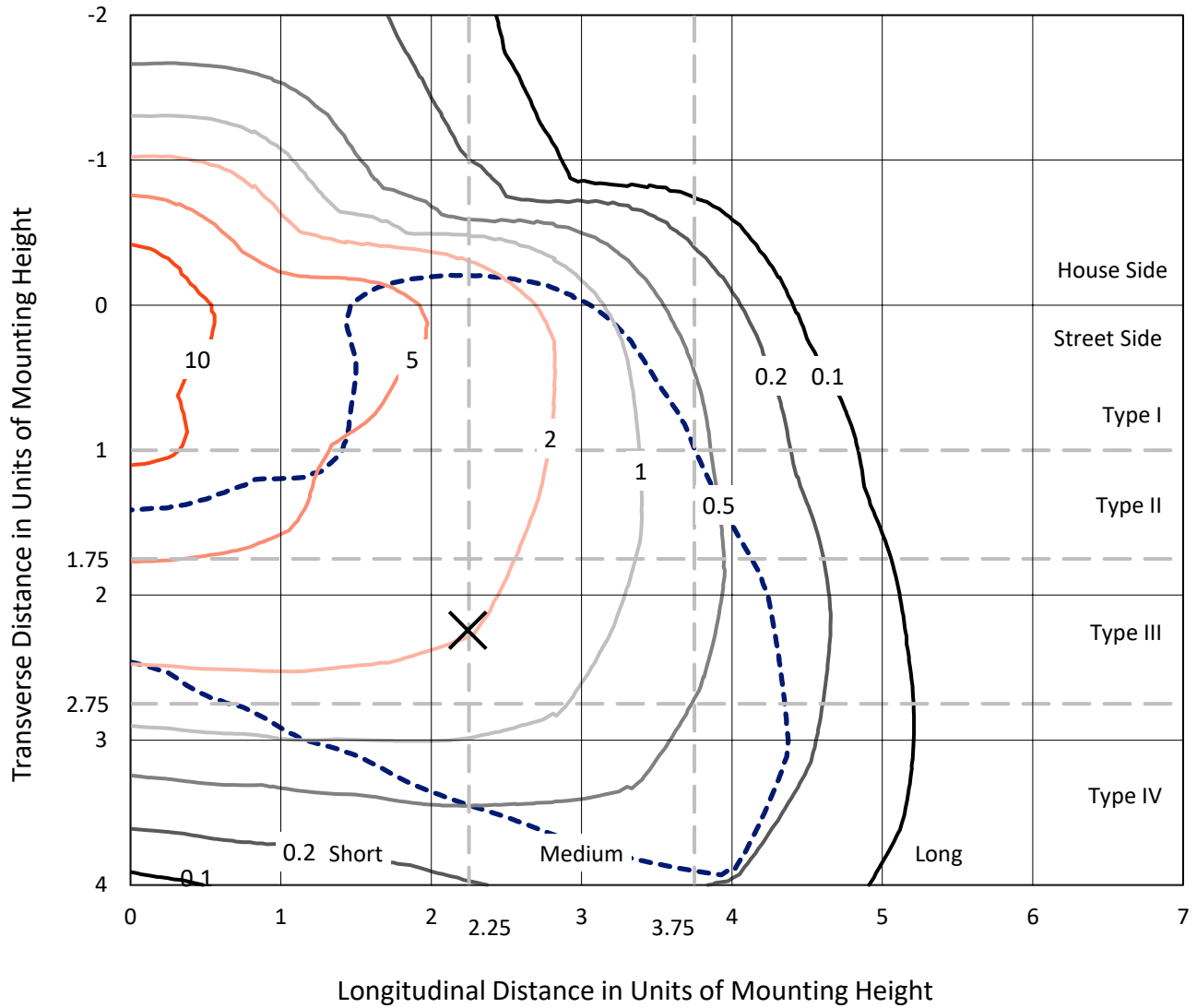
Lumens per Lamp: N/A  
Luminaire Lumens: 68080 lumens  
Efficiency: N/A  
Efficacy: 151.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

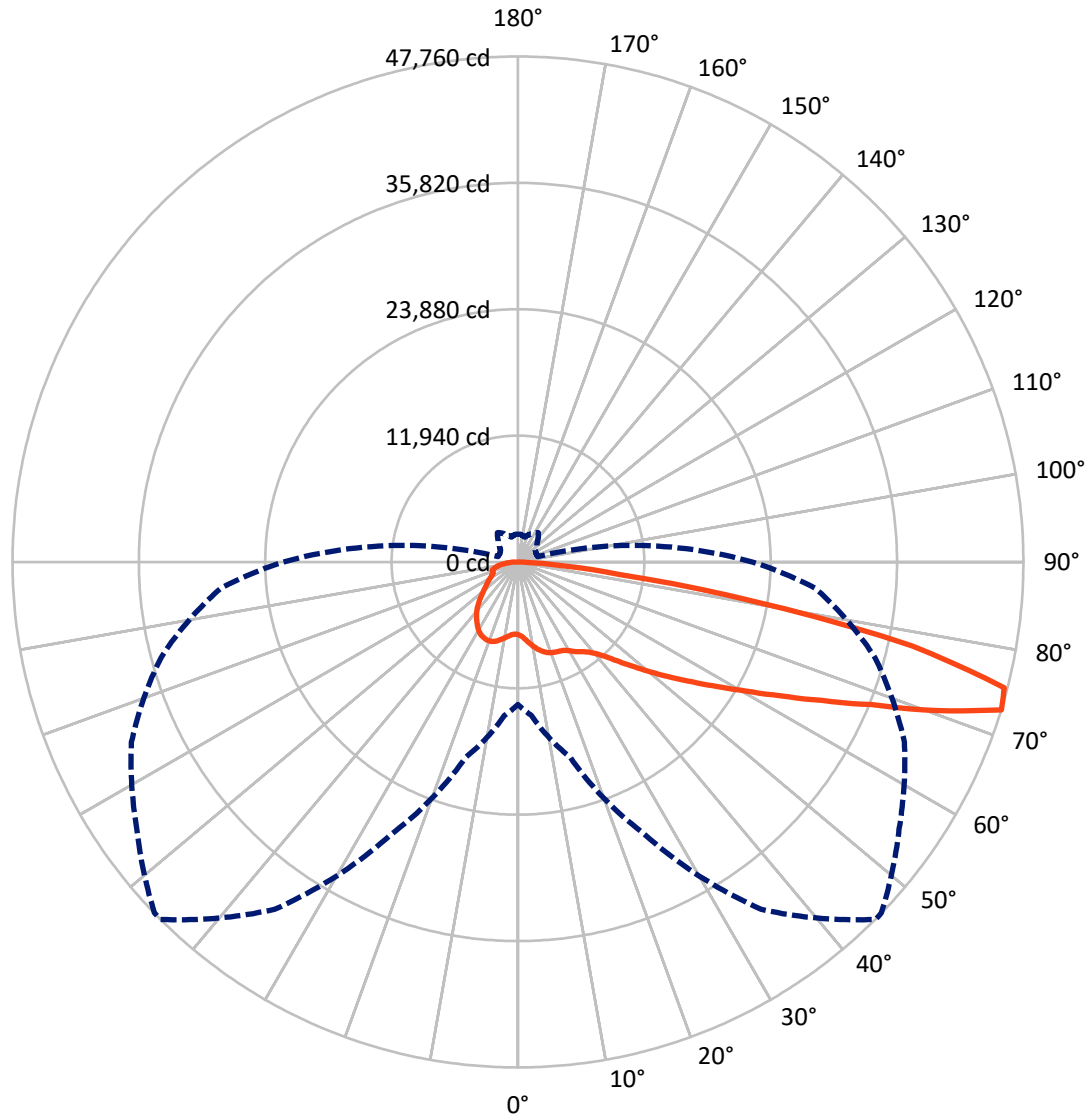
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15390.5	0.0	15390.5
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	52689.5	0.0	52689.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	68080.0	0.0	68080.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.0	1.0
10°-20°	2330.6	3.4
20°-30°	4054.3	6.0
30°-40°	5812.0	8.5
40°-50°	8183.6	12.0
50°-60°	12534.9	18.4
60°-70°	18158.7	26.7
70°-80°	14500.8	21.3
80°-90°	1806.0	2.7
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°	68080.0	100.0
0°-180°	68080.0	100.0



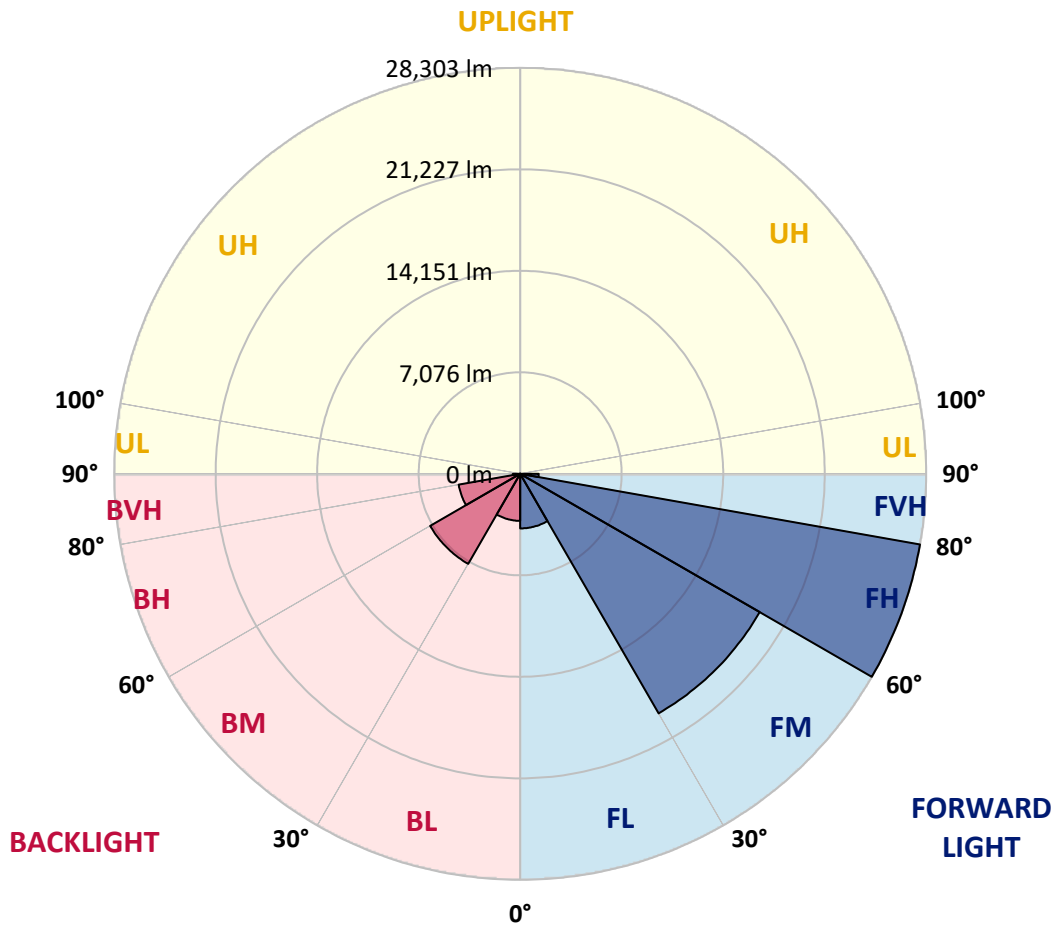
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3807.1	5.6			
FM (30°-60°)	19283.8	28.3			
FH (60°-80°)	28302.9	41.6			G5
FVH (80°-90°)	1295.7	1.9			G5
BL (0°-30°)	3276.8	4.8	B4/5000		
BM (30°-60°)	7246.8	10.6	B4/8500		
BH (60°-80°)	4356.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	510.4	0.7			G4/750
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9
2.5°	7136.9	7183.5	7140.5	7101.1	7083.1	7036.5	7032.9	7004.2	6986.3	6936.1
5°	7635.4	7696.4	7624.7	7545.8	7474.0	7359.3	7344.9	7262.5	7169.2	7061.6
7.5°	8198.5	8252.3	8169.8	8051.5	7925.9	7735.9	7732.3	7581.6	7434.6	7251.7
10°	8689.8	8761.6	8650.4	8489.0	8331.2	8116.0	8090.9	7918.8	7732.3	7495.6
12.5°	9123.8	9174.0	9066.4	8869.2	8686.2	8471.1	8438.8	8248.7	8040.7	7771.7
15°	9468.1	9532.6	9389.2	9177.6	8983.9	8772.3	8743.6	8571.5	8363.5	8080.1
17.5°	9694.0	9747.8	9600.8	9364.1	9177.6	9001.9	8980.3	8836.9	8654.0	8367.1
20°	9780.1	9837.5	9683.3	9443.0	9270.8	9134.5	9123.8	9019.8	8894.3	8632.5
22.5°	9866.2	9920.0	9719.1	9468.1	9317.5	9231.4	9227.8	9159.7	9109.4	8894.3
25°	10214.1	10228.4	9959.4	9597.2	9382.0	9306.7	9303.1	9299.5	9321.0	9152.5
27.5°	10515.3	10511.7	10282.2	9941.5	9608.0	9450.2	9446.6	9482.4	9550.6	9410.7
30°	10956.4	10917.0	10644.4	10289.4	9984.5	9740.6	9719.1	9686.9	9740.6	9629.5
32.5°	11892.5	11767.0	11325.8	10694.6	10296.5	10110.0	10081.4	9880.5	9902.0	9833.9
35°	13233.8	13068.8	12480.7	11462.1	10683.9	10418.5	10404.1	10149.5	10106.5	10045.5
37.5°	14829.7	14625.3	13940.3	12573.9	11350.9	10777.1	10755.6	10526.1	10350.3	10285.8
40°	16432.9	16174.6	15608.0	13929.6	12333.6	11376.0	11307.9	10960.0	10759.2	10651.6
42.5°	17989.4	17774.2	17290.0	15450.2	13545.8	12251.1	12100.5	11505.2	11354.5	11254.1
45°	19366.5	19172.9	18817.8	17074.8	14966.0	13441.8	13294.8	12322.9	12276.2	12276.2
47.5°	20485.5	20442.5	20065.9	18731.7	16640.9	14797.5	14542.8	13459.7	13585.3	13778.9
50°	21726.4	21608.0	21206.4	20363.6	18609.8	16350.4	16142.4	14854.8	15324.7	15855.5
52.5°	22866.9	22931.4	22483.1	22063.5	20833.4	18082.6	17716.8	16501.0	17516.0	18394.6
55°	24039.6	24043.2	23917.7	23860.3	23164.5	19997.7	19596.1	18480.7	20094.6	21184.8
57.5°	25140.6	25147.8	25334.3	25840.0	25868.7	22207.0	21751.5	20912.3	22960.1	24071.9
60°	26123.3	26173.5	26682.8	27866.3	28246.4	24739.0	24308.6	23785.0	25922.5	27041.4
62.5°	26453.3	26636.2	27769.5	29451.5	30595.5	27844.8	27421.6	27109.6	29035.5	30075.5
65°	25893.8	26313.4	28504.7	30760.5	33012.8	31535.2	31115.6	30774.9	32270.4	33249.5
67.5°	24520.2	25061.7	28461.6	32134.1	35946.4	35975.1	35584.2	34784.4	35738.4	36115.0
70°	20901.5	21712.0	25954.7	32647.0	39314.1	42046.9	41670.3	39611.7	39199.3	37377.4
72.5°	13466.9	14557.2	19111.9	28425.8	40063.6	47760.0	47738.5	43969.2	40293.2	34924.3
75°	4913.4	5580.4	8879.9	17842.3	33629.6	47469.5	47609.4	43223.2	36782.1	26976.9
77.5°	1789.6	1958.2	2897.8	6857.2	20682.7	38087.5	38378.0	34554.9	26180.7	13538.6
80°	939.6	1032.9	1484.8	2661.1	8862.0	22619.4	23074.9	20535.7	12304.9	4077.7
82.5°	520.0	563.1	832.0	1445.3	3991.7	9672.5	9945.1	8112.4	4328.8	1728.6
85°	279.7	297.7	390.9	789.0	1951.0	3353.3	3428.6	2424.4	1725.1	1014.9
87.5°	82.5	100.4	129.1	251.0	763.9	753.1	771.1	480.6	681.4	512.9
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°
6867.9	0°	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9	6867.9
6921.7	2.5°	6900.2	6889.5	6850.0	6832.1	6810.6	6807.0	6824.9	6828.5	6832.1	6835.7
7000.6	5°	6964.8	6928.9	6893.1	6871.5	6878.7	6882.3	6918.2	6943.3	6961.2	6975.5
7147.7	7.5°	7090.3	7061.6	7000.6	6997.1	7007.8	7040.1	7086.7	7144.1	7176.4	7201.5
7337.8	10°	7276.8	7223.0	7151.3	7162.0	7183.5	7230.2	7327.0	7373.6	7427.4	7474.0
7570.9	12.5°	7466.9	7420.3	7337.8	7344.9	7380.8	7463.3	7556.5	7613.9	7649.8	7685.6
7821.9	15°	7714.3	7631.8	7542.2	7542.2	7606.7	7696.4	7739.4	7786.1	7807.6	7847.0
8090.9	17.5°	7969.0	7861.4	7743.0	7735.9	7814.8	7857.8	7882.9	7890.1	7897.2	7940.3
8352.7	20°	8223.6	8105.3	7936.7	7922.3	7940.3	7933.1	7929.5	7922.3	7933.1	7986.9
8621.7	22.5°	8474.7	8338.4	8105.3	8040.7	7990.5	7922.3	7918.8	7915.2	7922.3	7976.1
8912.2	25°	8768.7	8603.8	8291.7	8098.1	7929.5	7836.3	7847.0	7850.6	7857.8	7900.8
9213.4	27.5°	9087.9	8905.0	8463.9	8080.1	7775.3	7710.7	7692.8	7703.6	7728.7	7796.8
9514.7	30°	9407.1	9191.9	8621.7	8008.4	7581.6	7492.0	7434.6	7459.7	7538.6	7606.7
9776.5	32.5°	9697.6	9482.4	8747.2	7850.6	7334.2	7194.3	7119.0	7151.3	7230.2	7255.3
10067.0	35°	10038.3	9794.4	8801.0	7599.6	7065.2	6850.0	6749.6	6703.0	6742.4	6717.3
10407.7	37.5°	10418.5	10163.8	8793.8	7269.6	6749.6	6502.1	6362.3	6186.5	6104.0	6018.0
10909.8	40°	10981.5	10615.7	8707.8	6871.5	6358.7	6132.7	5881.7	5584.0	5397.5	5229.0
11720.3	42.5°	11749.0	11243.3	8550.0	6434.0	5917.6	5706.0	5365.2	5017.4	4723.3	4443.5
12950.5	45°	12893.1	12064.6	8352.7	5967.8	5440.6	5232.6	4863.2	4472.2	4138.7	3780.1
14697.0	47.5°	14542.8	13169.2	8166.2	5437.0	4938.5	4748.4	4414.9	4052.6	3658.1	3310.2
17221.9	50°	16809.4	14754.4	7994.1	4920.5	4443.5	4300.1	4034.7	3665.3	3267.2	2987.5
20180.6	52.5°	19692.9	16909.9	7922.3	4422.0	3980.9	3927.1	3715.5	3371.2	2994.6	2757.9
23630.8	55°	23003.1	19488.5	7922.3	3945.0	3575.6	3593.6	3446.5	3127.3	2801.0	2589.4
27188.5	57.5°	26381.5	22099.4	7778.9	3503.9	3231.3	3306.7	3213.4	2933.7	2639.6	2420.8
30929.1	60°	29494.5	24287.1	7197.9	3102.2	2926.5	3044.8	2983.9	2743.6	2385.0	2202.0
34056.4	62.5°	31886.6	25520.8	6078.9	2783.0	2675.5	2811.7	2779.5	2492.5	2338.3	2263.0
36624.3	65°	33084.5	25320.0	4648.0	2499.7	2463.9	2675.5	2607.3	2596.6	2474.6	2388.5
37459.9	67.5°	32349.3	23591.3	3371.2	2291.7	2341.9	2549.9	2811.7	2854.8	2628.8	2460.3
35107.2	70°	29125.1	20464.0	2510.5	2094.5	2187.7	2553.5	3206.2	2987.5	2578.6	2381.4
28156.8	72.5°	22156.7	15260.1	1947.4	1886.4	1986.9	2571.4	3382.0	2926.5	2435.2	2632.4
17541.1	75°	12670.7	8377.8	1563.7	1631.8	1735.8	2402.9	3292.3	2768.7	2324.0	2417.2
6950.4	77.5°	4830.9	3220.6	1291.1	1380.8	1395.1	2098.0	3148.9	2757.9	2212.8	2159.0
2083.7	80°	1674.8	1258.8	1068.7	1097.4	1079.5	1864.9	3019.7	2399.3	1811.1	1621.1
860.7	82.5°	685.0	627.6	846.4	810.5	767.5	1448.9	2438.7	1961.8	1481.2	1309.0
416.0	85°	297.7	398.1	559.5	491.3	444.7	1004.2	1954.6	1660.5	1251.7	1079.5
136.3	87.5°	61.0	150.6	236.7	222.4	229.5	670.7	1387.9	1179.9	885.8	663.5
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>
6867.9
6850.0
6982.7
7208.7
7463.3
7700.0
7861.4
7954.6
8008.4
8012.0
7958.2
7865.0
7682.1
7344.9
6796.2
6071.8
5239.7
4418.4
3737.0
3270.8
2969.5
2740.0
2567.9
2385.0
2173.4
2237.9
2359.8
2431.6
2349.1
2610.9
2417.2
1968.9
1567.3
1294.7
1075.9
520.0
0.0

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