

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: P943229

Luminaire Tested: **GALN-SB7C-835-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7C-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

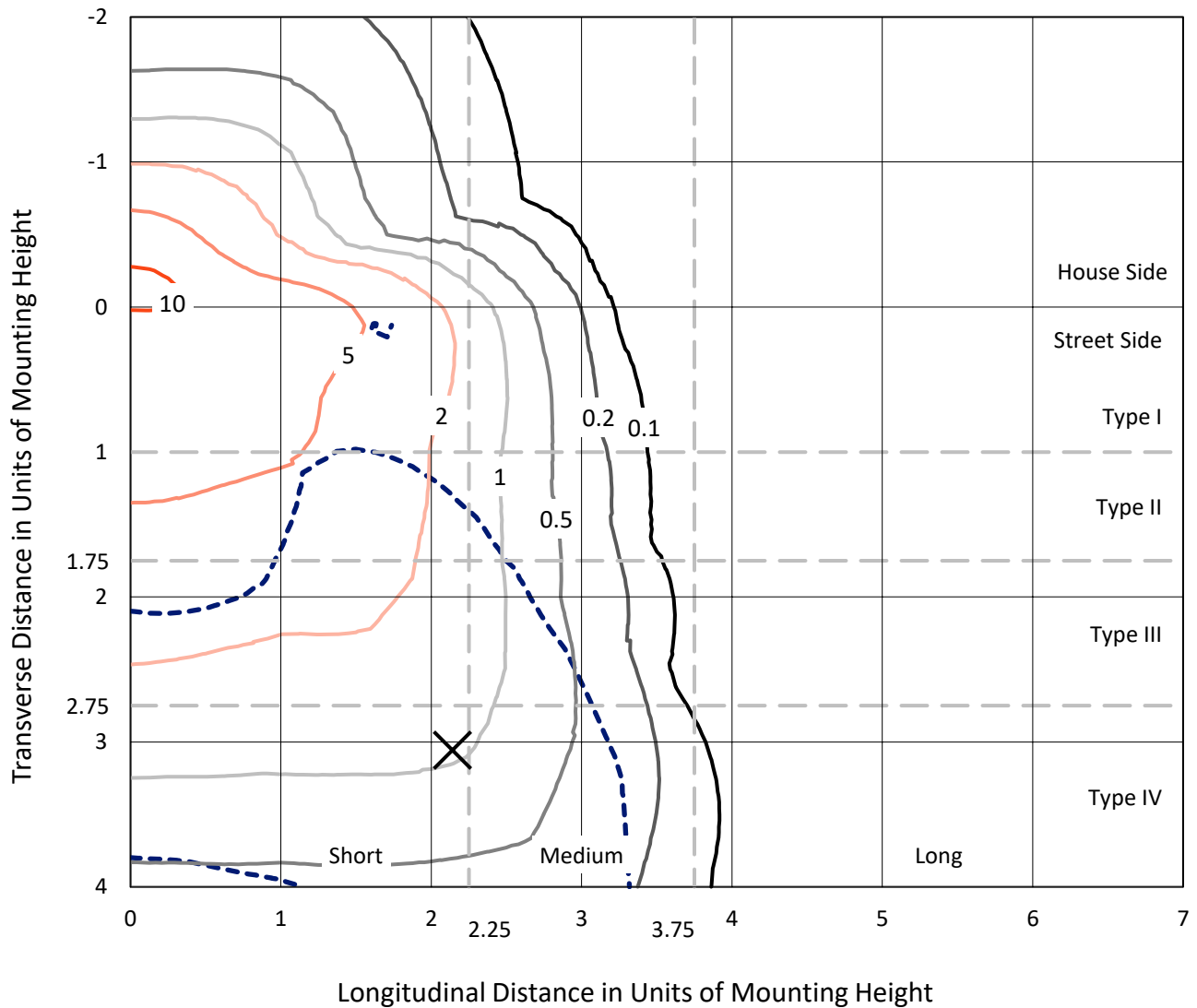
Lumens per Lamp: N/A  
Luminaire Lumens: 48826 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

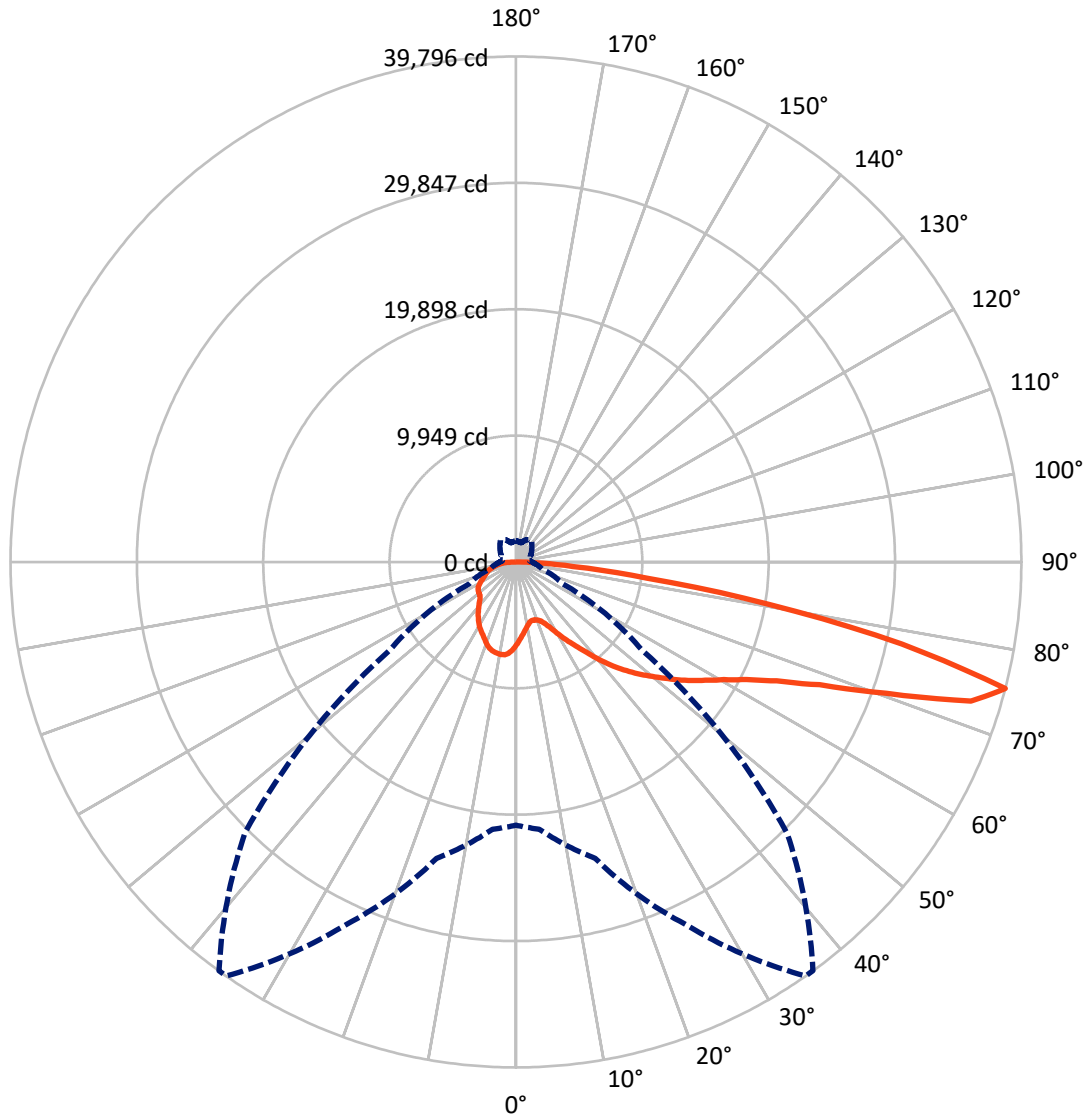
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11619.4	0.0	11619.4
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	37206.6	0.0	37206.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	48826.0	0.0	48826.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	616.0	1.3
10°-20°	1776.9	3.6
20°-30°	2983.9	6.1
30°-40°	4637.3	9.5
40°-50°	6883.0	14.1
50°-60°	9502.4	19.5
60°-70°	11528.6	23.6
70°-80°	9527.5	19.5
80°-90°	1370.3	2.8
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°	48826.0	100.0
0°-180°	48826.0	100.0

**Coefficient of Utilization**



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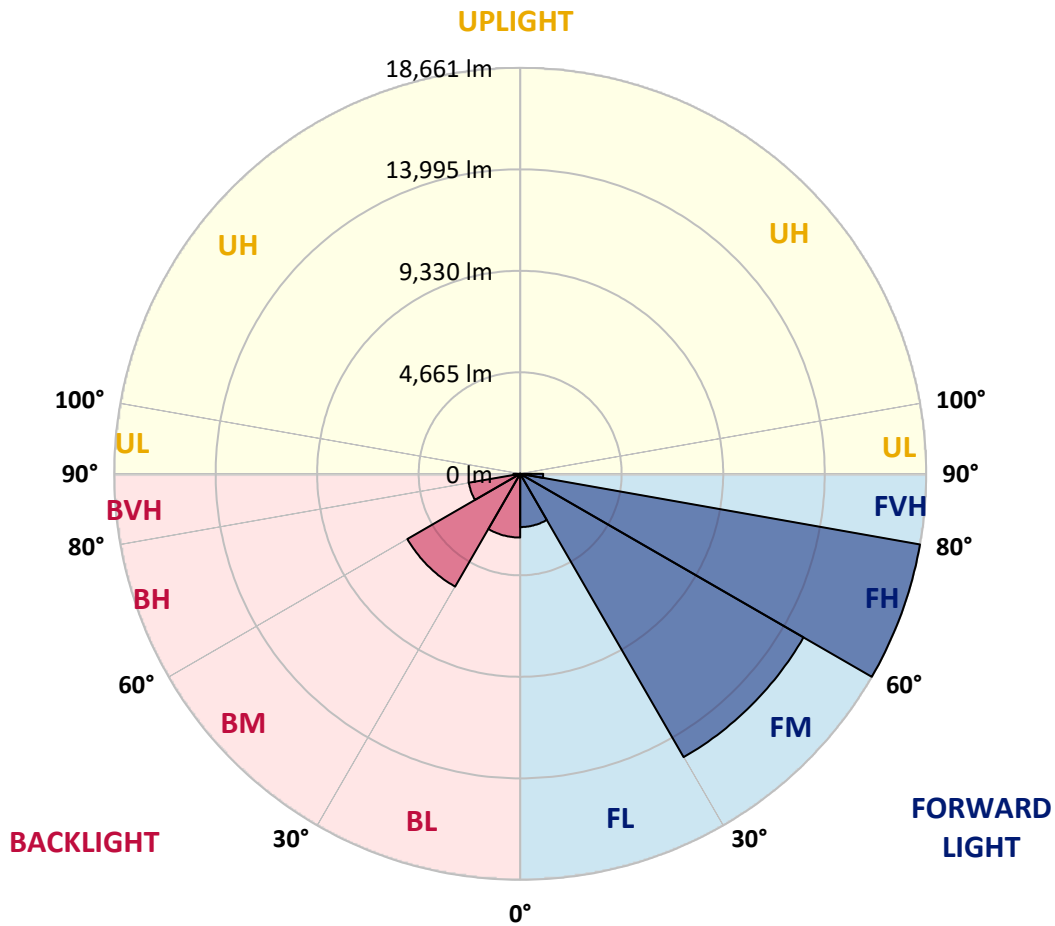
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2448.5	5.0			
FM (30°-60°)	15035.8	30.8			
FH (60°-80°)	18660.6	38.2			G5
FVH (80°-90°)	1061.8	2.2			G5
BL (0°-30°)	2928.2	6.0	B4/5000		
BM (30°-60°)	5987.0	12.3	B4/8500		
BH (60°-80°)	2395.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	308.6	0.6			G3/500
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°	36°	45°	55°	65°	75°
0°	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4
2.5°	5999.6	6036.6	6052.4	6044.5	6084.1	6078.8	6134.2	6202.9	6297.9	6390.3
5°	5537.7	5577.3	5611.6	5643.3	5719.8	5743.6	5830.7	5962.7	6136.9	6313.7
7.5°	5107.5	5141.8	5194.6	5252.6	5382.0	5405.7	5550.9	5756.8	5999.6	6258.3
10°	4756.4	4790.7	4846.1	4912.1	5073.1	5102.2	5286.9	5561.4	5878.2	6205.5
12.5°	4605.9	4616.5	4648.2	4714.2	4854.1	4872.5	5075.8	5389.9	5759.4	6165.9
15°	4598.0	4619.1	4621.8	4656.1	4772.2	4780.2	4967.6	5279.0	5685.5	6158.0
17.5°	4677.2	4693.1	4669.3	4690.4	4788.1	4801.3	4949.1	5226.2	5661.8	6192.3
20°	4888.4	4901.6	4830.3	4801.3	4872.5	4883.1	5028.3	5260.5	5685.5	6263.6
22.5°	5337.1	5345.0	5170.8	5052.0	5057.3	5062.6	5189.3	5400.4	5777.9	6392.9
25°	6036.6	6031.3	5754.1	5524.5	5392.5	5363.5	5448.0	5627.4	5933.6	6564.5
27.5°	6854.8	6815.2	6538.1	6194.9	5907.2	5865.0	5846.5	5923.1	6155.3	6791.5
30°	7778.6	7741.7	7443.4	6994.7	6596.1	6527.5	6353.3	6313.7	6485.3	7100.3
32.5°	8792.2	8768.5	8412.1	7868.4	7335.2	7256.0	6963.0	6857.4	6992.1	7567.5
35°	9642.1	9621.0	9325.4	8765.8	8113.9	8016.2	7717.9	7599.2	7667.8	8166.6
37.5°	10410.2	10399.7	10146.3	9705.5	9032.4	8913.6	8578.4	8538.8	8525.6	8955.9
40°	11122.9	11096.5	10832.6	10600.3	10101.4	9993.2	9697.6	9663.3	9562.9	9927.2
42.5°	11912.1	11843.5	11460.8	11352.5	11217.9	11128.2	10951.3	10956.6	10734.9	11022.6
45°	12556.2	12516.6	12123.3	12059.9	12205.1	12168.1	12321.2	12360.8	11930.6	12170.8
47.5°	13247.7	13210.8	12878.2	12833.3	13226.6	13237.1	13778.2	13791.4	13097.3	13363.8
50°	14100.3	14047.5	13717.5	13773.0	14213.8	14253.4	15243.2	15153.4	14171.5	14575.4
52.5°	14662.5	14694.2	14622.9	14712.6	15314.4	15351.4	16684.3	16454.7	15235.3	15771.1
55°	15076.9	15140.2	15362.0	15567.8	16475.8	16512.8	18043.7	17692.6	16116.9	16879.7
57.5°	15610.1	15520.3	15934.7	16335.9	17579.1	17676.8	19366.1	18885.7	16898.1	17835.2
60°	16375.5	16312.2	16634.2	17228.1	18814.4	18970.2	20765.0	19960.0	17470.9	18592.7
62.5°	17927.6	17769.2	17819.3	18344.6	20371.7	20577.6	22343.5	20897.0	17756.0	18888.3
65°	20247.7	19975.8	19722.4	20086.7	22565.2	22768.4	24125.1	21633.4	17650.4	18315.6
67.5°	23169.6	22900.4	22588.9	22932.1	25795.9	25957.0	26323.8	22047.8	16819.0	16108.9
70°	25579.5	25479.2	25851.4	27263.5	30956.2	30961.5	29142.8	21704.7	14541.1	11421.2
72.5°	25260.1	25199.4	27160.6	31526.3	37459.9	37320.0	31811.4	19107.4	9795.2	5152.3
75°	20722.8	21116.1	24154.2	31449.8	39795.9	39777.4	30177.5	12147.0	4051.6	2135.4
77.5°	11112.3	11735.3	15681.3	23219.8	31067.0	31534.2	21216.4	4249.6	1739.4	1367.3
80°	3624.0	4167.8	6250.4	11822.4	20187.0	20099.9	9093.1	1668.2	1190.4	968.7
82.5°	1538.8	1602.2	2792.6	5582.6	10360.1	10199.1	2895.5	958.1	836.7	662.5
85°	601.8	673.1	1232.7	2581.4	4487.2	4389.5	1045.2	475.1	535.8	432.9
87.5°	198.0	240.2	440.8	884.2	1396.3	1346.2	256.0	163.6	232.3	198.0
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°
6506.4	0°	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4	6506.4
6524.9	2.5°	6561.8	6604.1	6654.2	6728.1	6791.5	6844.3	6899.7	6934.0	6947.2	6986.8
6535.4	5°	6609.3	6701.7	6825.8	6947.2	7066.0	7137.2	7200.6	7232.3	7261.3	7282.4
6564.5	7.5°	6688.5	6807.3	7002.6	7161.0	7261.3	7319.4	7361.6	7351.0	7361.6	7366.9
6596.1	10°	6757.1	6923.4	7155.7	7306.2	7382.7	7385.4	7374.8	7337.8	7319.4	7322.0
6643.6	12.5°	6839.0	7023.7	7274.5	7401.2	7422.3	7364.2	7319.4	7256.0	7232.3	7221.7
6714.9	15°	6949.8	7161.0	7403.8	7451.3	7398.5	7324.6	7248.1	7145.2	7092.4	7050.1
6836.3	17.5°	7084.4	7316.7	7504.1	7469.8	7356.3	7234.9	7110.8	6955.1	6846.9	6802.0
7002.6	20°	7271.9	7480.4	7580.7	7430.2	7258.7	7073.9	6862.7	6672.7	6572.4	6527.5
7213.8	22.5°	7498.9	7699.5	7654.6	7361.6	7118.8	6823.1	6559.2	6419.3	6369.1	6337.5
7485.7	25°	7770.7	7942.3	7707.4	7261.3	6889.1	6490.6	6287.3	6242.4	6218.7	6194.9
7818.2	27.5°	8124.4	8216.8	7747.0	7113.5	6530.2	6136.9	6063.0	6070.9	6063.0	6023.4
8280.1	30°	8591.6	8573.1	7783.9	6873.3	6118.4	5817.5	5822.8	5857.1	5862.4	5836.0
8924.2	32.5°	9206.6	9019.2	7802.4	6561.8	5725.1	5537.7	5543.0	5579.9	5606.3	5561.4
9766.2	35°	9951.0	9539.2	7773.4	6171.2	5421.6	5271.1	5231.5	5242.1	5250.0	5207.8
10787.7	37.5°	10819.4	10122.5	7644.0	5738.3	5170.8	5009.8	4925.3	4854.1	4811.8	4772.2
11943.8	40°	11772.2	10758.6	7406.5	5316.0	4891.0	4732.6	4605.9	4471.3	4328.8	4276.0
13168.5	42.5°	12770.0	11413.2	7118.8	4912.1	4569.0	4439.7	4305.0	4109.7	3895.9	3787.7
14440.8	45°	13804.6	12083.7	6836.3	4513.6	4239.1	4183.6	4027.9	3793.0	3560.7	3423.4
15715.6	47.5°	14818.2	12717.2	6421.9	4112.4	3930.2	3990.9	3869.5	3653.1	3394.4	3178.0
16980.0	50°	15786.9	13311.1	5743.6	3705.9	3679.5	3932.9	3816.7	3505.3	3209.6	2932.5
18220.5	52.5°	16747.7	13791.4	4875.2	3336.3	3544.9	3917.0	3748.1	3405.0	3043.4	2753.0
19387.2	55°	17563.3	14039.6	4038.5	3019.6	3349.5	3782.4	3666.3	3286.2	2808.4	2499.6
20187.0	57.5°	18027.9	13839.0	3341.6	2708.1	3080.3	3560.7	3526.4	3032.8	2528.7	2291.1
20342.7	60°	17827.3	13026.0	2771.5	2436.3	2824.3	3320.5	3283.6	2782.0	2314.9	2090.5
19508.6	62.5°	16721.3	11476.6	2320.1	2198.7	2592.0	3075.0	3040.7	2589.4	2151.2	1934.8
17294.1	65°	14493.6	9336.0	1969.1	2000.7	2357.1	2779.4	2829.6	2428.4	2021.9	1810.7
13379.7	67.5°	11054.3	6762.4	1694.6	1829.2	2127.4	2489.1	2634.2	2312.2	1913.6	1713.0
7741.7	70°	6300.5	3840.5	1462.3	1662.9	1924.2	2219.8	2483.8	2219.8	1797.5	1631.2
2900.8	72.5°	2388.8	1763.2	1264.3	1496.6	1728.9	1992.8	2317.5	2074.7	1662.9	1538.8
1499.2	75°	1274.9	1074.3	1063.7	1301.3	1504.5	1771.1	2109.0	1932.1	1562.6	1625.9
1037.3	77.5°	868.4	760.2	889.5	1113.9	1259.0	1525.6	1887.3	1715.7	1354.1	1348.8
717.9	80°	601.8	538.5	723.2	897.4	974.0	1282.8	1647.1	1472.8	1103.3	1029.4
443.4	82.5°	361.6	351.1	541.1	670.4	688.9	989.8	1364.6	1235.3	902.7	786.6
264.0	85°	198.0	208.5	345.8	393.3	401.2	691.6	1069.0	955.5	694.2	583.3
95.0	87.5°	55.4	71.3	126.7	155.7	192.7	359.0	636.1	567.5	348.4	242.8
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>
6506.4
6984.1
7287.7
7374.8
7327.3
7216.4
7063.3
6804.7
6522.2
6342.7
6194.9
6031.3
5849.2
5582.6
5236.8
4798.6
4299.8
3800.9
3412.9
3154.2
2908.7
2721.3
2473.2
2259.4
2058.8
1900.4
1776.4
1681.4
1610.1
1517.7
1678.7
1243.2
984.5
791.9
588.6
242.8
0.0

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