

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: P955262

Luminaire Tested: **GALN-SB8B-735-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955262  
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-SB8B-735-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

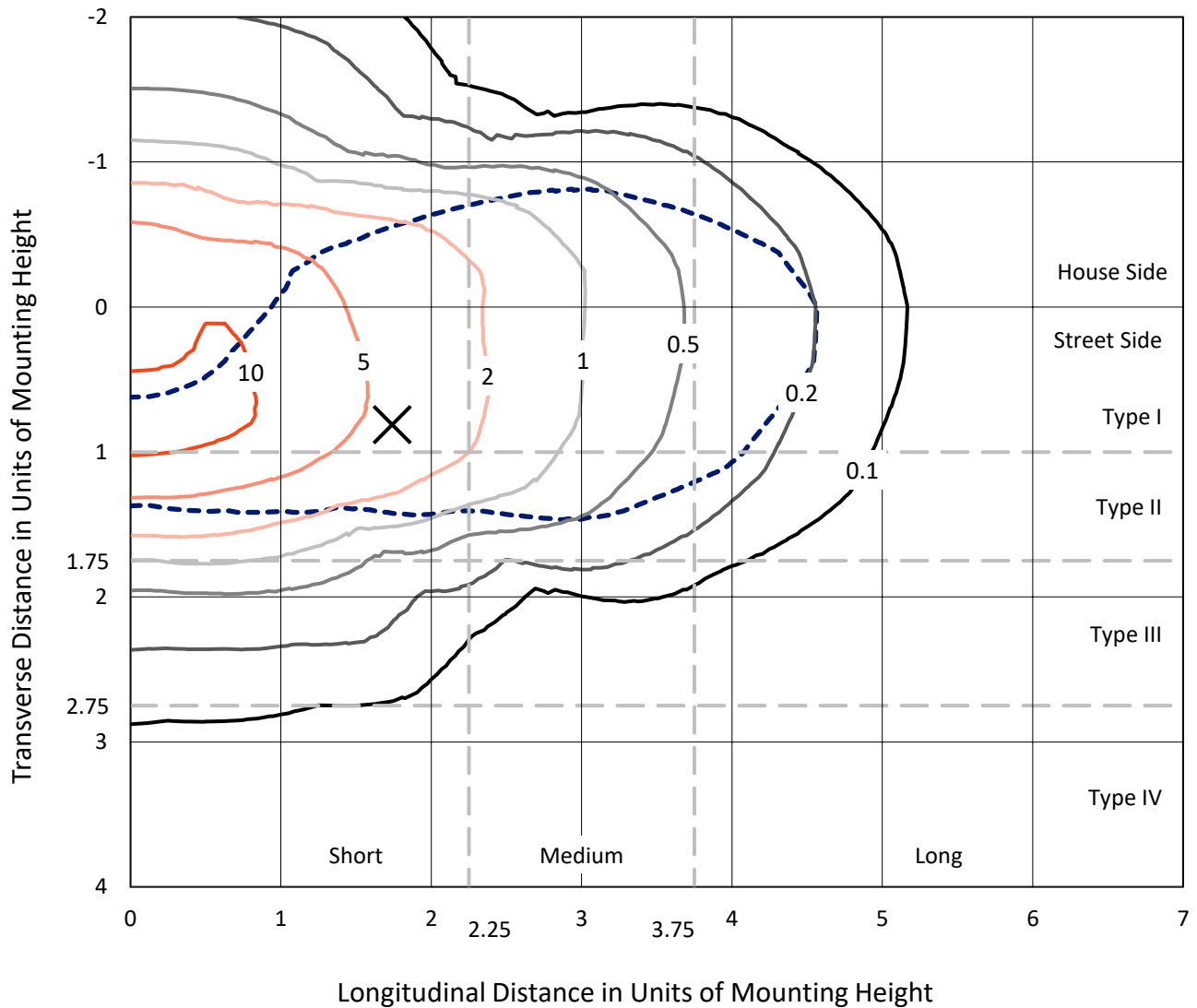
Lumens per Lamp: N/A  
Luminaire Lumens: 46144 lumens  
Efficiency: N/A  
Efficacy: 157.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

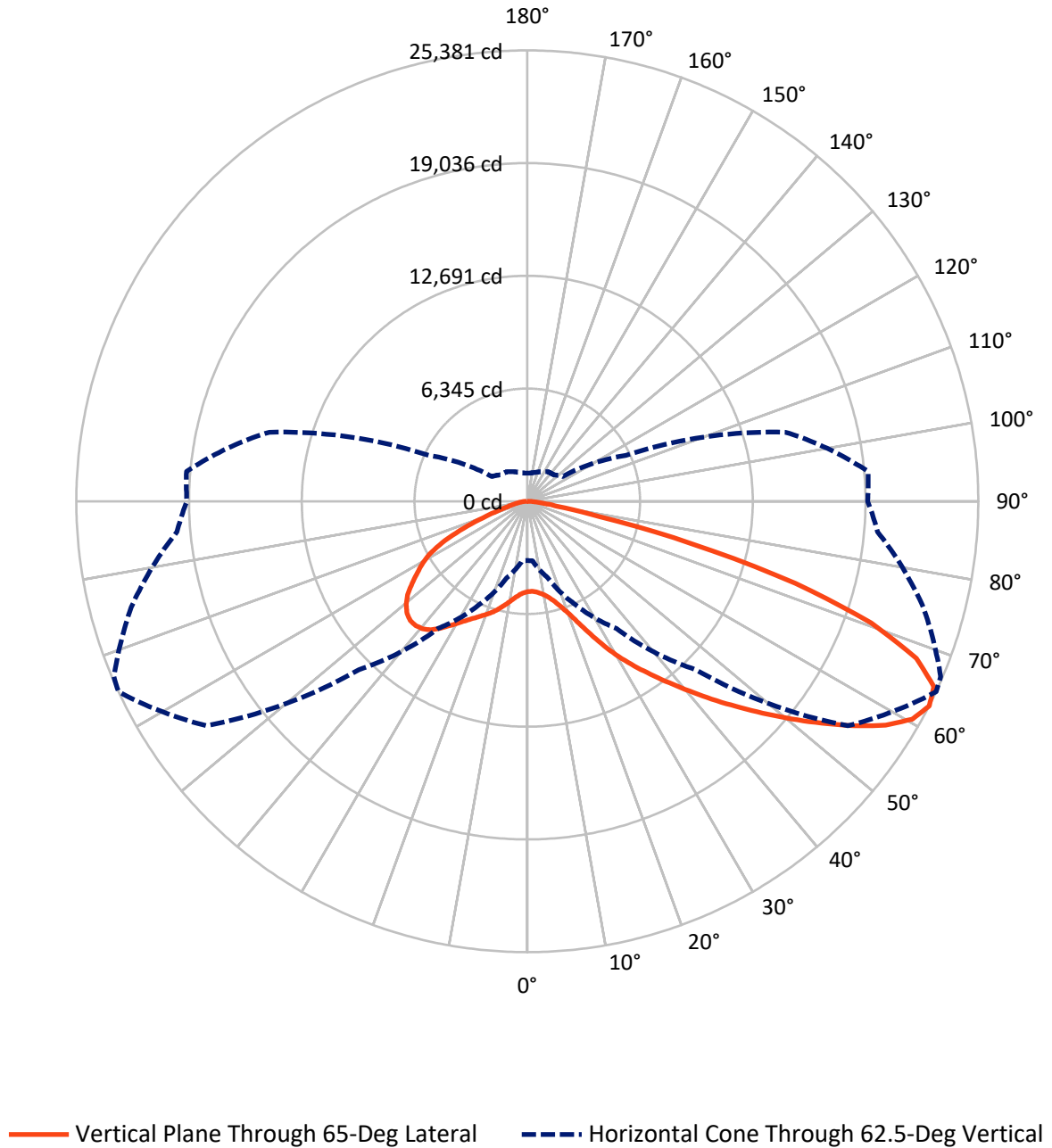
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14561.0	0.0	14561.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	31583.0	0.0	31583.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	46144.0	0.0	46144.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.0	1.1
10°-20°	1719.1	3.7
20°-30°	3485.7	7.6
30°-40°	6032.0	13.1
40°-50°	9128.3	19.8
50°-60°	10702.3	23.2
60°-70°	8972.6	19.4
70°-80°	4953.6	10.7
80°-90°	643.5	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°	46144.0	100.0
0°-180°	46144.0	100.0

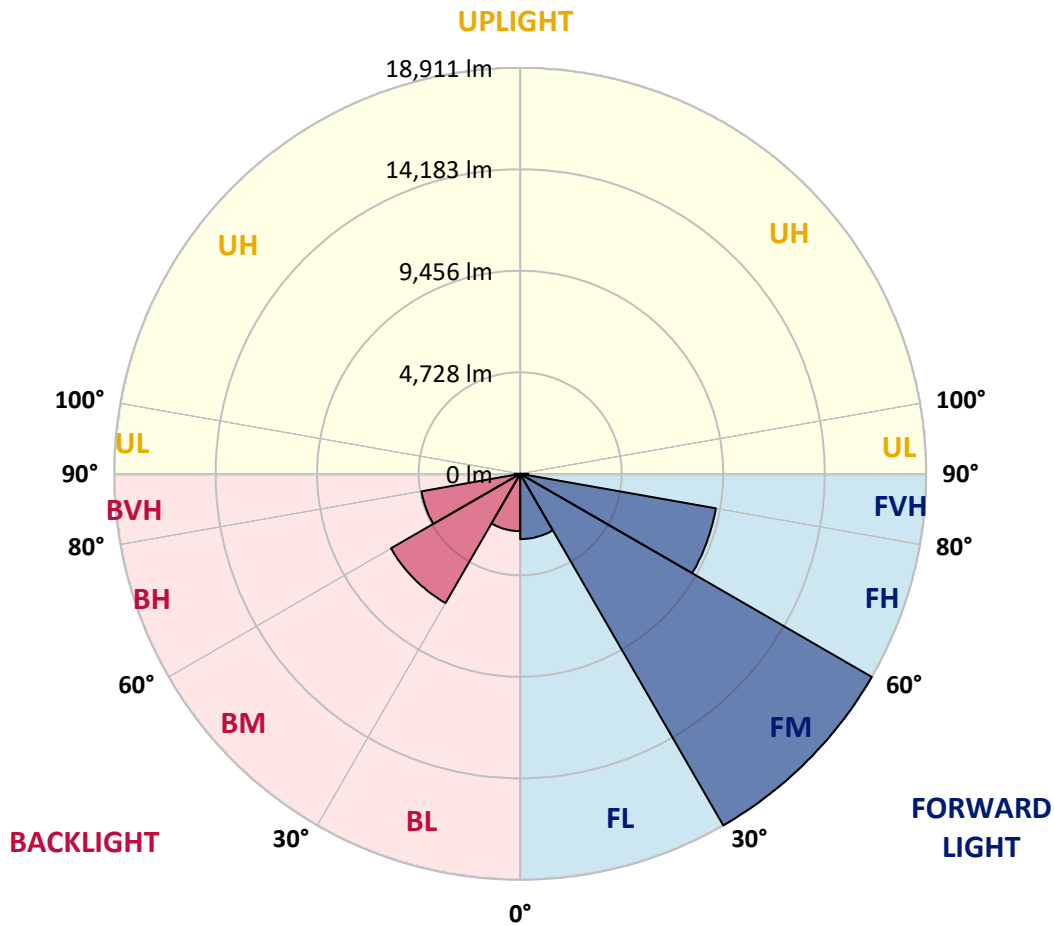


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3041.5	6.6			
FM (30°-60°)	18911.3	41.0			
FH (60°-80°)	9255.1	20.1			G4/12000
FVH (80°-90°)	375.0	0.8			G3/500
BL (0°-30°)	2670.3	5.8	B4/5000		
BM (30°-60°)	6951.2	15.1	B4/8500		
BH (60°-80°)	4671.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	268.4	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-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9
2.5°	5051.4	5037.0	5049.0	5049.0	5053.7	5051.4	5068.1	5072.9	5080.1	5094.4
5°	5001.1	4998.7	5020.2	5039.4	5058.5	5075.3	5096.8	5128.0	5132.7	5149.5
7.5°	4984.3	4970.0	5003.5	5027.4	5072.9	5113.6	5171.1	5223.7	5245.3	5252.4
10°	5113.6	5089.7	5120.8	5135.1	5173.4	5214.1	5281.2	5365.0	5388.9	5417.6
12.5°	5333.8	5307.5	5353.0	5374.5	5410.5	5446.4	5491.8	5573.2	5585.2	5637.9
15°	5635.5	5604.4	5633.1	5659.4	5719.3	5752.8	5798.3	5877.3	5877.3	5918.0
17.5°	6044.9	6004.2	6025.7	6035.3	6073.6	6123.9	6200.5	6269.9	6305.8	6291.4
20°	6655.3	6605.1	6605.1	6557.2	6542.8	6583.5	6684.1	6779.8	6818.1	6743.9
22.5°	7572.2	7500.4	7459.7	7296.9	7232.3	7237.1	7337.6	7454.9	7486.1	7354.4
25°	8738.1	8625.6	8570.5	8331.1	8185.1	8058.2	8137.2	8288.0	8331.1	8168.3
27.5°	9904.0	9911.2	9858.5	9571.2	9329.4	9097.2	9056.5	9214.5	9260.0	9075.7
30°	11539.1	11369.1	11268.6	10923.8	10579.1	10253.5	10085.9	10150.6	10162.6	9942.3
32.5°	12949.2	12906.1	12690.6	12389.0	11946.1	11436.2	11156.1	11053.1	11034.0	10720.4
35°	14555.6	14531.6	14304.2	13945.1	13466.3	12757.7	12252.5	11958.1	11934.1	11493.6
37.5°	16188.3	16188.3	15965.6	15573.0	15077.4	14191.7	13423.2	12956.4	12879.8	12305.2
40°	17490.6	17411.6	17452.3	17287.1	16719.7	15778.9	14723.1	14045.6	13942.7	13253.2
42.5°	18230.4	18204.0	18448.2	18632.5	18400.3	17648.6	16154.8	15225.9	15082.2	14297.0
45°	18395.5	18366.8	18802.5	19477.6	19803.2	19494.4	17710.9	16468.4	16293.6	15388.7
47.5°	18014.9	17957.4	18596.6	19662.0	20705.8	21249.2	19396.2	17816.2	17562.4	16451.6
50°	16870.6	16815.5	17782.7	19197.5	21009.8	22441.4	21225.3	19245.4	18857.6	17591.2
52.5°	14383.2	14409.5	15924.9	17868.9	20610.0	23183.6	22800.5	20751.2	20284.4	18757.0
55°	11203.9	11261.4	13123.9	15264.2	19010.8	23071.0	23875.4	22302.6	21838.1	19853.5
57.5°	8022.3	8276.1	10021.3	12140.0	15939.3	21287.5	24110.0	23777.3	23327.2	21050.5
60°	5199.8	5245.3	7040.8	9176.2	12137.6	18117.8	23633.6	24895.3	24543.3	22271.4
62.5°	3332.5	3363.6	4457.6	6418.3	8735.7	13404.0	22029.6	25381.3	25273.5	23078.2
65°	2449.1	2425.1	2994.9	4242.2	5884.5	8266.5	18915.0	25146.6	25359.7	23583.4
67.5°	2044.5	2011.0	2291.1	2937.4	4335.5	4694.6	13995.4	23621.7	24402.1	23525.9
70°	1862.5	1833.8	2003.8	2180.9	3382.7	3143.3	7055.1	20535.8	21737.6	22872.3
72.5°	1577.6	1527.4	1759.6	1936.8	2631.0	2410.8	2915.9	15774.1	17239.2	20777.6
75°	1223.3	1189.8	1388.5	1704.5	1977.4	1881.7	1843.4	9578.4	11177.6	16068.6
77.5°	969.6	924.1	1106.0	1328.7	1778.7	1419.6	1343.0	4124.9	5709.7	10258.3
80°	730.2	689.5	840.3	1051.0	1367.0	1070.1	869.0	1683.0	2152.2	5197.4
82.5°	519.5	483.6	586.5	770.9	919.3	960.0	533.9	943.2	1060.5	2003.8
85°	332.8	311.2	392.6	483.6	584.1	617.7	325.6	493.2	541.0	825.9
87.5°	181.9	148.4	210.7	225.0	270.5	246.6	155.6	179.6	193.9	299.3
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°
5084.9	0°	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9
5094.4	2.5°	5104.0	5111.2	5135.1	5142.3	5159.1	5180.6	5195.0	5209.4	5209.4	5223.7
5171.1	5°	5173.4	5190.2	5240.5	5266.8	5309.9	5353.0	5379.3	5410.5	5429.6	5439.2
5293.1	7.5°	5307.5	5333.8	5405.7	5451.2	5525.4	5585.2	5625.9	5669.0	5678.6	5704.9
5463.1	10°	5489.5	5520.6	5602.0	5688.2	5776.7	5851.0	5889.3	5920.4	5932.3	5937.1
5681.0	12.5°	5697.7	5743.2	5848.6	5953.9	6047.3	6111.9	6121.5	6114.3	6080.8	6052.0
5949.1	15°	5953.9	5994.6	6111.9	6226.8	6317.8	6329.8	6269.9	6231.6	6190.9	6183.7
6248.4	17.5°	6260.3	6281.9	6389.6	6502.1	6509.3	6468.6	6380.0	6344.1	6305.8	6279.5
6638.6	20°	6617.0	6609.9	6686.5	6734.3	6684.1	6559.6	6425.5	6365.7	6327.4	6296.2
7117.4	22.5°	7043.2	6988.1	6978.5	6966.6	6832.5	6571.5	6389.6	6313.0	6253.1	6210.1
7785.3	25°	7663.2	7452.5	7306.5	7225.1	6923.5	6506.9	6274.7	6104.7	5992.2	5918.0
8601.7	27.5°	8438.9	8084.6	7715.9	7517.2	6923.5	6375.2	5997.0	5721.7	5537.3	5460.7
9391.7	30°	9178.6	8807.5	8264.1	7869.1	6906.7	6159.8	5549.3	5166.3	4950.8	4874.2
10066.8	32.5°	9810.6	9406.0	8845.9	8254.5	6866.0	5810.3	4993.9	4570.2	4361.9	4270.9
10734.7	35°	10397.2	9966.2	9430.0	8678.3	6758.3	5297.9	4383.4	4060.2	3828.0	3682.0
11414.6	37.5°	10998.1	10485.7	9983.0	9061.3	6564.4	4699.4	3914.2	3638.9	3366.0	3169.7
12137.6	40°	11651.6	11038.8	10574.3	9288.7	6246.0	4129.7	3550.3	3298.9	3009.3	2801.0
12970.7	42.5°	12415.3	11701.9	11232.7	9406.0	5810.3	3725.1	3313.3	3066.7	2793.8	2623.8
13863.7	45°	13212.5	12432.1	11833.6	9403.7	5324.3	3535.9	3236.7	2992.5	2690.9	2513.7
14780.6	47.5°	14048.0	13195.8	12353.1	9250.4	4902.9	3562.3	3193.6	2832.1	2499.3	2327.0
15707.1	50°	14885.9	14031.3	12855.8	8963.2	4723.4	3504.8	3033.2	2607.1	2214.5	2058.8
16576.1	52.5°	15716.6	14919.4	13289.1	8553.8	4541.4	3291.8	2827.3	2315.0	2097.1	1989.4
17473.8	55°	16552.2	15798.0	13760.7	7957.7	4086.6	3042.8	2482.6	2204.9	2003.8	1905.6
18352.4	57.5°	17390.1	16813.1	14208.4	7361.6	3514.4	2736.3	2293.5	2070.8	1910.4	1826.6
19087.4	60°	18261.5	17974.2	14670.5	6813.3	2949.4	2343.7	2154.6	1963.1	1800.3	1706.9
19793.6	62.5°	19159.2	19252.6	15032.0	6107.1	2429.9	2104.3	2030.1	1833.8	1675.8	1587.2
20377.8	65°	20064.2	20485.5	15269.0	5128.0	1970.3	1876.9	1896.1	1692.6	1532.2	1455.6
20806.3	67.5°	20746.5	21373.7	15201.9	3880.7	1616.0	1661.4	1728.5	1544.1	1393.3	1333.5
20736.9	70°	20823.1	21268.3	14541.2	2657.3	1352.6	1450.8	1541.7	1398.1	1242.5	1199.4
19760.1	72.5°	19803.2	19831.9	12700.2	1735.7	1144.3	1273.6	1345.4	1249.7	1098.8	1055.8
17287.1	75°	17129.1	16401.3	9324.7	1144.3	957.6	1094.1	1161.1	1094.1	948.0	957.6
12934.8	77.5°	12977.9	11615.7	5661.8	814.0	799.6	919.3	1010.3	962.4	837.9	940.8
6504.5	80°	6686.5	6284.3	2525.7	608.1	632.0	735.0	830.7	768.5	663.1	632.0
1453.2	82.5°	1532.2	1781.1	995.9	435.7	457.3	529.1	634.4	577.0	476.4	402.2
605.7	85°	536.3	586.5	440.5	272.9	268.1	330.4	430.9	385.4	323.2	258.6
256.2	87.5°	170.0	222.6	165.2	110.1	114.9	148.4	198.7	181.9	150.8	98.2
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>
5084.9
5223.7
5444.0
5695.3
5925.2
6052.0
6183.7
6281.9
6298.6
6224.4
5946.7
5499.0
4919.7
4316.4
3729.9
3222.3
2841.7
2657.3
2542.4
2350.9
2068.4
1989.4
1896.1
1812.3
1699.7
1584.8
1453.2
1335.9
1201.8
1053.4
924.1
828.3
577.0
397.4
272.9
102.9
0.0

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