

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: P955999

Luminaire Tested: **GALN-SB8D-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 89371 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

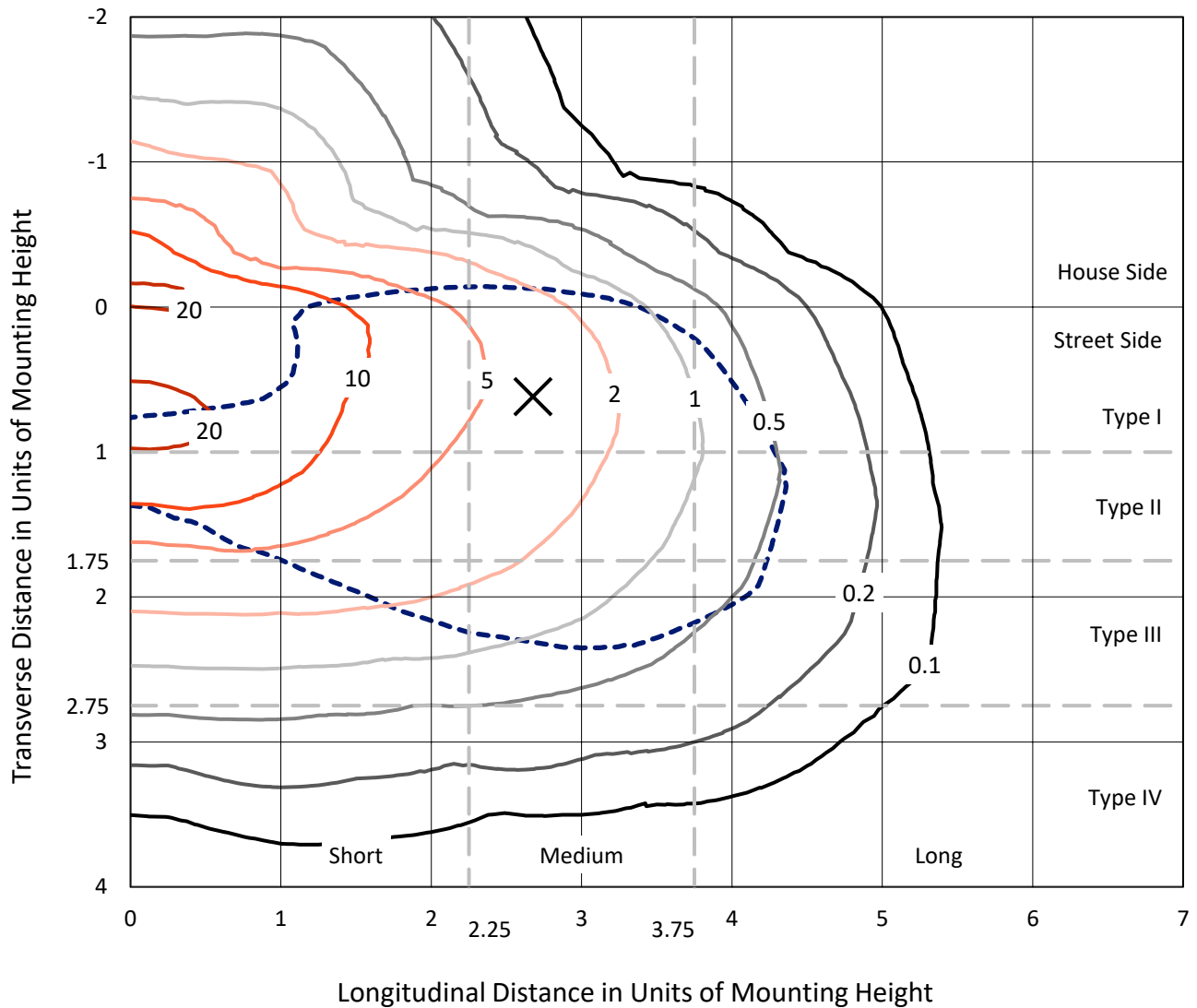
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

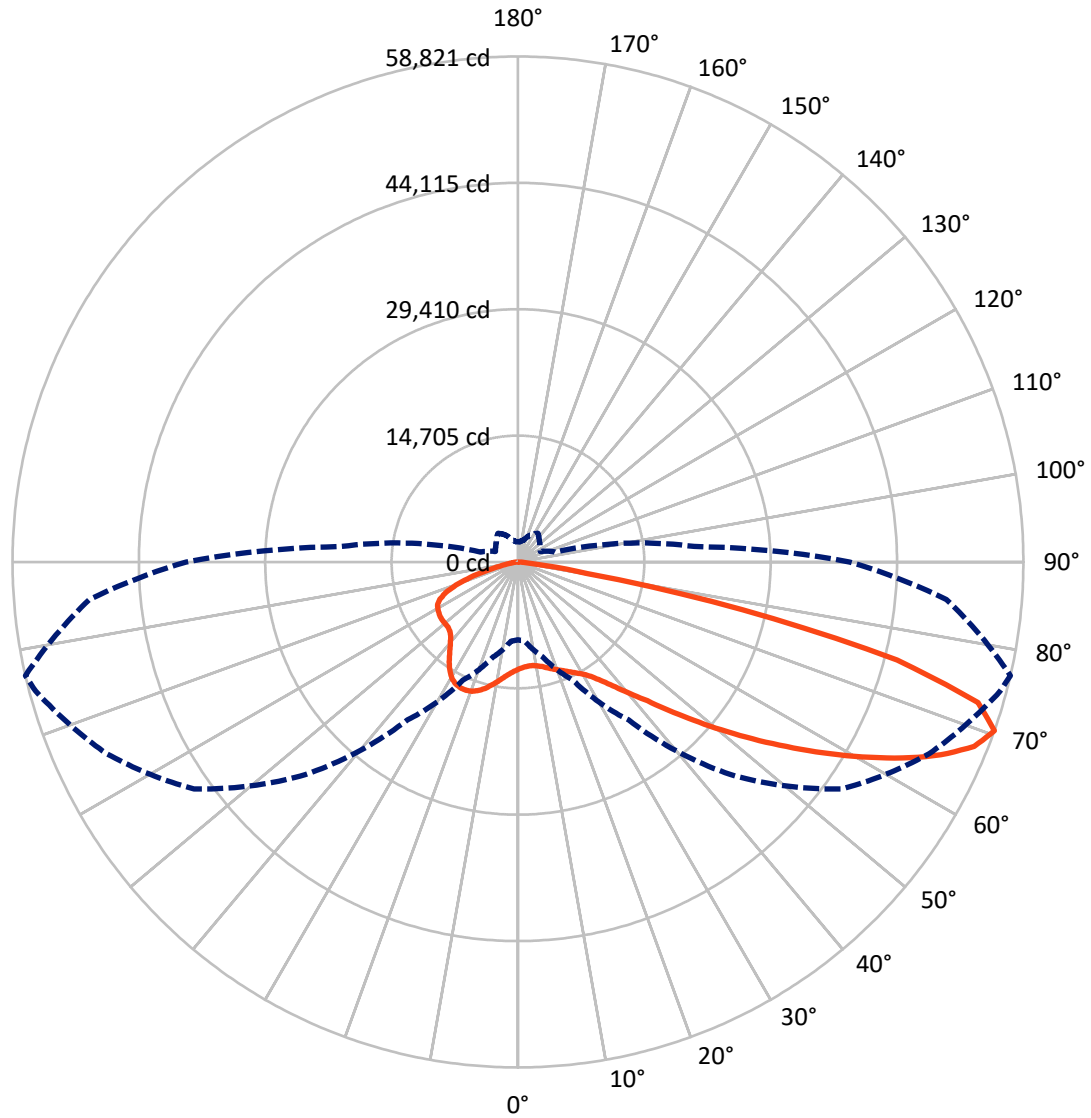
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19570.9	0.0	19570.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	69800.1	0.0	69800.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	89371.0	0.0	89371.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1189.1	1.3
10°-20°	3431.9	3.8
20°-30°	5869.1	6.6
30°-40°	9438.0	10.6
40°-50°	14735.2	16.5
50°-60°	19682.8	22.0
60°-70°	20978.8	23.5
70°-80°	12914.4	14.5
80°-90°	1131.7	1.3
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°	89371.0	100.0
0°-180°	89371.0	100.0

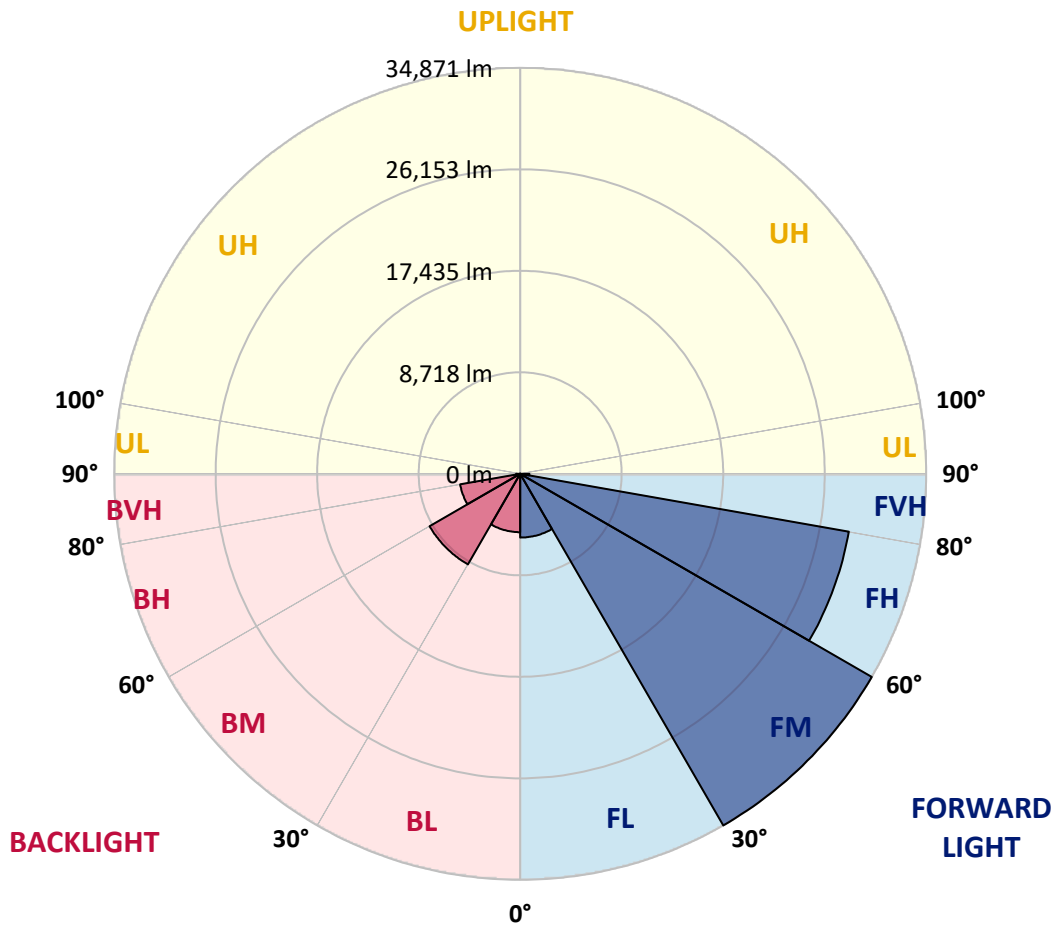


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5475.4	6.1			
FM (30°-60°)	34870.6	39.0			
FH (60°-80°)	28662.8	32.1			G5
FVH (80°-90°)	791.3	0.9			G5
BL (0°-30°)	5014.7	5.6	B5		
BM (30°-60°)	8985.4	10.1	B5		
BH (60°-80°)	5230.4	5.9	B5		G5
BVH (80°-90°)	340.3	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1
2.5°	11493.1	11488.6	11548.1	11566.4	11676.2	11754.0	11900.5	12056.1	12257.5	12280.4
5°	10829.5	10829.5	10898.1	10971.4	11113.2	11268.9	11493.1	11763.2	12111.1	12166.0
7.5°	10266.5	10303.1	10362.6	10504.5	10669.3	10893.5	11236.8	11621.3	12079.0	12166.0
10°	9813.3	9854.5	9927.8	10042.2	10289.4	10600.6	11049.2	11543.5	12156.8	12294.1
12.5°	9671.5	9712.6	9753.8	9840.8	10069.7	10435.8	10971.4	11580.1	12344.5	12481.8
15°	10001.0	10051.4	10019.3	9996.4	10115.4	10449.6	11008.0	11712.8	12577.9	12774.7
17.5°	10760.8	10779.1	10705.9	10490.8	10472.4	10651.0	11181.9	11895.9	12870.9	13086.0
20°	11987.5	11955.4	11804.4	11378.7	11136.1	11099.5	11479.4	12170.6	13172.9	13401.8
22.5°	13653.5	13616.9	13314.8	12642.0	12101.9	11744.9	11909.7	12527.6	13511.7	13768.0
25°	15731.6	15681.2	15237.2	14321.8	13484.2	12600.8	12495.5	12999.0	13928.2	14166.2
27.5°	18157.4	18116.2	17635.6	16427.3	15218.9	13772.5	13223.3	13552.8	14363.0	14633.0
30°	20766.4	20885.4	20034.0	18734.1	17205.4	15301.3	14202.8	14234.8	14926.0	15168.6
32.5°	23833.1	24039.0	23013.7	21366.0	19278.8	16962.8	15438.6	15186.9	15745.3	15946.7
35°	26872.3	27105.7	26254.3	24432.7	22029.7	18921.8	16729.4	16280.8	16834.6	17054.3
37.5°	29499.5	29810.8	29371.4	27787.7	24972.8	21283.6	18413.7	17567.0	18175.7	18450.4
40°	31573.0	32049.0	32016.9	31028.3	28442.2	24148.9	20551.3	19155.2	19841.8	20139.3
42.5°	33257.3	33669.3	34026.3	33975.9	32062.7	27403.2	23064.1	21219.5	21741.3	22084.6
45°	34419.9	34859.3	35628.3	36456.7	35545.9	30886.4	25943.1	23668.3	24144.3	24661.5
47.5°	35458.9	35957.8	36955.7	38269.3	38502.7	34383.3	29096.7	26519.8	26954.6	27490.2
50°	35550.5	35980.7	37527.8	39390.7	40603.6	37742.9	32483.8	29719.2	30126.6	30698.7
52.5°	33339.7	34017.1	36717.6	39358.6	41569.4	40553.3	35848.0	33046.8	33504.5	34191.1
55°	25879.0	26872.3	34342.1	38132.0	41226.1	42370.4	39047.4	36584.9	37170.8	37889.4
57.5°	22290.6	22725.4	27261.3	35898.3	39660.7	42841.8	41747.9	40159.6	41102.5	41889.8
60°	20034.0	20395.6	23077.8	32424.3	37601.0	42095.8	43835.1	43491.8	45121.2	46059.5
62.5°	17617.3	17960.6	20400.2	27073.7	34964.6	40855.4	45153.3	46567.6	49240.6	50265.9
65°	15218.9	15511.9	17850.8	22748.3	31614.2	39615.0	45835.3	49226.9	53053.4	54115.3
67.5°	12545.9	12788.5	14999.2	19191.9	27540.5	37916.8	46174.0	51318.6	56371.8	57282.6
70°	9053.5	9241.2	11525.2	15177.7	22427.9	34996.6	46036.7	52801.6	58092.8	58820.5
72.5°	4279.6	4449.0	7131.2	9854.5	15841.4	29311.9	43258.3	51625.3	56344.3	55982.7
75°	2284.0	2430.4	4096.5	5405.6	8367.0	20093.5	35399.4	44471.3	47313.7	45556.1
77.5°	1547.1	1661.5	2535.7	3245.2	3821.9	9538.7	22752.9	30790.3	29623.1	26721.2
80°	1226.7	1345.7	2078.0	2197.0	1849.2	3446.6	9401.4	14253.1	10239.0	8188.5
82.5°	942.9	1075.6	1748.5	1592.8	1007.0	1414.3	2737.1	4508.5	2622.7	1995.6
85°	576.7	718.6	1373.1	1016.1	567.6	645.4	929.2	1254.1	801.0	668.3
87.5°	292.9	411.9	695.7	370.7	256.3	151.0	247.2	247.2	210.5	183.1
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°
12468.1	0°	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1	12468.1
12404.0	2.5°	12513.8	12605.4	12761.0	12907.5	13021.9	13131.8	13241.6	13301.1	13319.4	13392.6
12472.6	5°	12660.3	12829.7	13131.8	13415.5	13594.0	13703.9	13781.7	13827.5	13836.6	13859.5
12660.3	7.5°	12930.4	13200.4	13621.5	13905.3	14038.0	14028.9	13996.8	13882.4	13836.6	13795.4
12934.9	10°	13310.3	13667.3	14184.5	14381.3	14298.9	14079.2	13795.4	13461.3	13305.7	13154.6
13310.3	12.5°	13781.7	14234.8	14742.9	14733.7	14326.4	13763.4	13104.3	12591.7	12266.7	12033.2
13772.5	15°	14353.8	14875.6	15264.7	14953.4	14060.9	13049.4	12083.6	11415.3	11122.4	10866.1
14239.4	17.5°	14944.3	15502.7	15681.2	14884.8	13392.6	11992.0	10898.1	10371.7	10083.4	9946.1
14742.9	20°	15521.0	16074.8	15928.4	14491.2	12376.5	10792.8	9817.9	9529.6	9470.1	9502.1
15232.6	22.5°	16129.8	16624.1	15978.7	13731.4	11081.2	9566.2	9030.7	9039.8	9172.5	9268.7
15745.3	25°	16752.3	17086.4	15846.0	12632.8	9689.8	8664.5	8531.7	8678.2	8939.1	9126.8
16322.0	27.5°	17351.9	17498.3	15557.6	11273.4	8495.1	8019.1	8042.0	8344.1	8737.7	8998.6
17022.3	30°	18029.3	17864.5	15003.8	9744.7	7666.7	7465.3	7657.5	8010.0	8403.6	8637.0
17905.7	32.5°	18793.6	18180.3	14125.0	8330.4	7080.8	7021.3	7337.1	7566.0	7739.9	7808.6
19077.4	35°	19745.7	18624.3	12999.0	7337.1	6554.4	6696.3	6998.4	6884.0	6815.3	6778.7
20652.0	37.5°	20981.5	19223.9	11680.8	6691.7	6128.8	6462.9	6586.5	6229.5	5959.4	5826.7
22560.6	40°	22469.1	20102.7	10412.9	6192.8	5858.7	6261.5	6046.4	5616.1	5272.8	5085.2
24707.3	42.5°	24121.4	21022.7	9346.5	5817.5	5707.7	6096.7	5648.2	5135.5	4581.7	4522.2
27265.9	45°	25856.1	21970.2	8618.7	5529.2	5634.4	5954.8	5419.3	4590.8	4197.2	4439.8
29833.7	47.5°	27590.9	22839.8	8179.3	5314.0	5597.8	5794.6	5217.9	4288.8	4009.6	4362.0
32584.5	50°	29522.4	23617.9	7982.5	5158.4	5556.6	5730.6	4915.8	4210.9	3812.7	4046.2
35431.5	52.5°	31440.2	24222.1	7836.0	5002.8	5497.1	5680.2	4769.4	4119.4	3574.7	3588.5
38296.7	55°	33353.5	24615.7	7675.8	4796.8	5364.4	5570.4	4755.6	4018.7	3396.2	3332.1
41326.8	57.5°	35394.9	24840.0	7479.0	4568.0	5135.5	5291.1	4741.9	3940.9	3341.3	3236.0
44425.5	60°	37472.9	25169.6	7222.7	4288.8	4828.9	4957.0	4709.9	3913.4	3309.3	3130.7
47345.7	62.5°	39335.8	25284.0	6916.0	4023.3	4435.2	4627.5	4641.2	3890.6	3222.3	2915.6
49771.6	65°	40557.8	24789.7	6380.5	3721.2	4009.6	4288.8	4508.5	3812.7	3066.7	2760.0
50970.8	67.5°	40507.5	23379.9	5542.9	3332.1	3597.6	3913.4	4316.2	3680.0	2879.0	2567.8
50064.5	70°	38621.7	20597.0	4481.0	2879.0	3144.5	3510.6	4069.1	3483.2	2654.7	2357.2
44517.1	72.5°	33124.6	16120.6	3254.3	2348.1	2618.1	3094.1	3748.7	3245.2	2425.9	2169.6
32900.3	75°	23663.7	10202.4	2206.2	1803.4	2036.8	2622.7	3350.5	2966.0	2215.3	2178.7
16477.6	77.5°	12088.2	4874.6	1460.1	1318.2	1418.9	2068.9	2814.9	2650.2	2247.4	1798.8
4687.0	80°	3931.7	1798.8	920.0	897.1	942.9	1377.7	2178.7	2174.1	1702.7	1222.1
1135.1	82.5°	1254.1	773.5	599.6	576.7	553.8	865.1	1519.6	1721.0	1148.9	773.5
407.4	85°	498.9	462.3	352.4	325.0	233.4	407.4	796.4	1144.3	855.9	558.4
105.3	87.5°	183.1	183.1	96.1	68.7	50.3	137.3	215.1	343.3	489.8	288.4
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>
12468.1
13433.8
13896.1
13804.6
13108.9
11978.3
10838.6
9987.3
9488.4
9291.5
9177.1
9062.7
8691.9
7845.2
6815.3
5858.7
5098.9
4581.7
4568.0
4526.8
4220.1
3684.6
3377.9
3249.8
3144.5
2915.6
2760.0
2581.5
2384.7
2155.8
2055.1
1602.0
1080.2
769.0
572.1
283.8
0.0

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