

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: P943589

Luminaire Tested: **GALN-SB8A-850-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943589  
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-SB8A-850-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

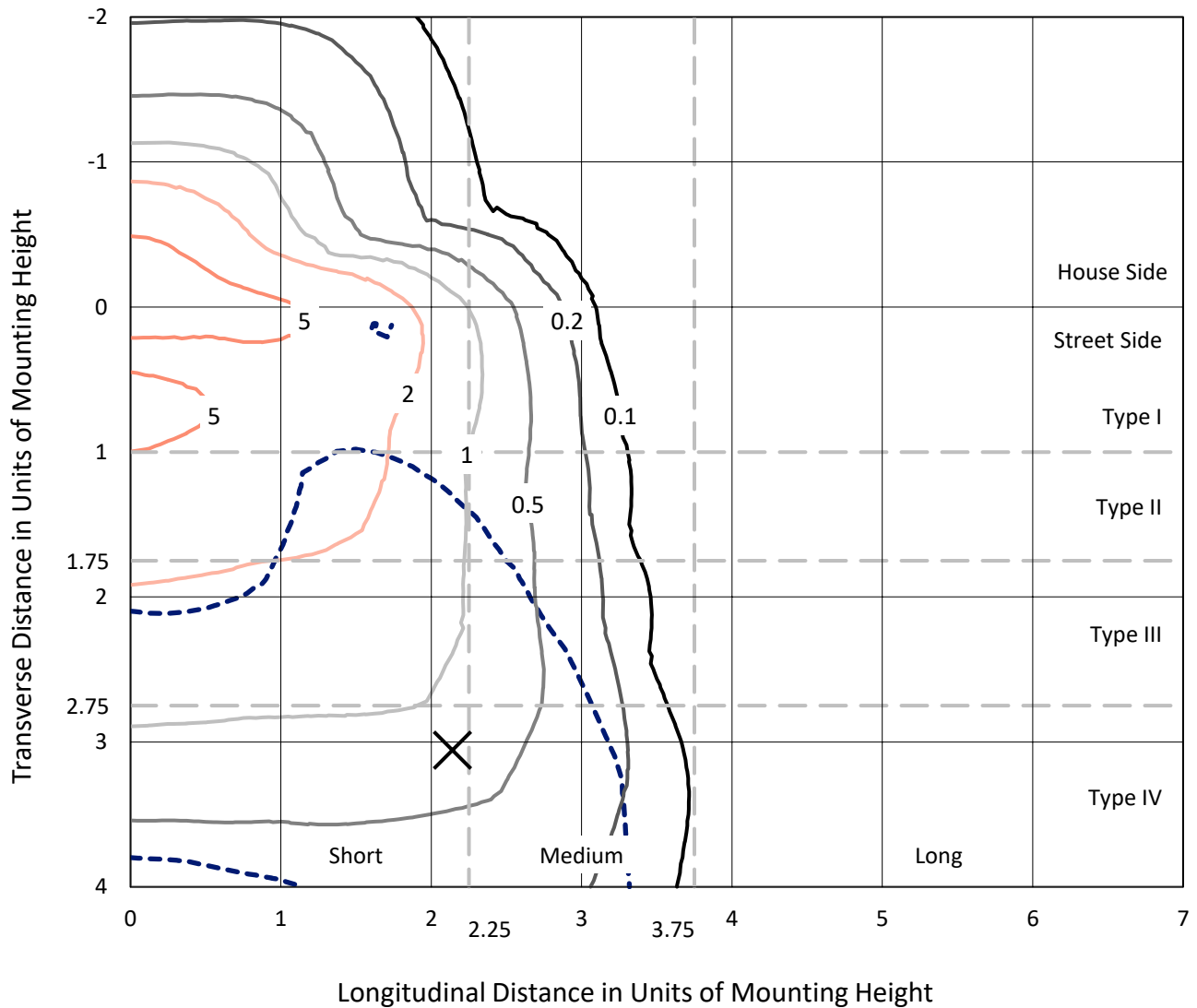
Lumens per Lamp: N/A  
Luminaire Lumens: 34292 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

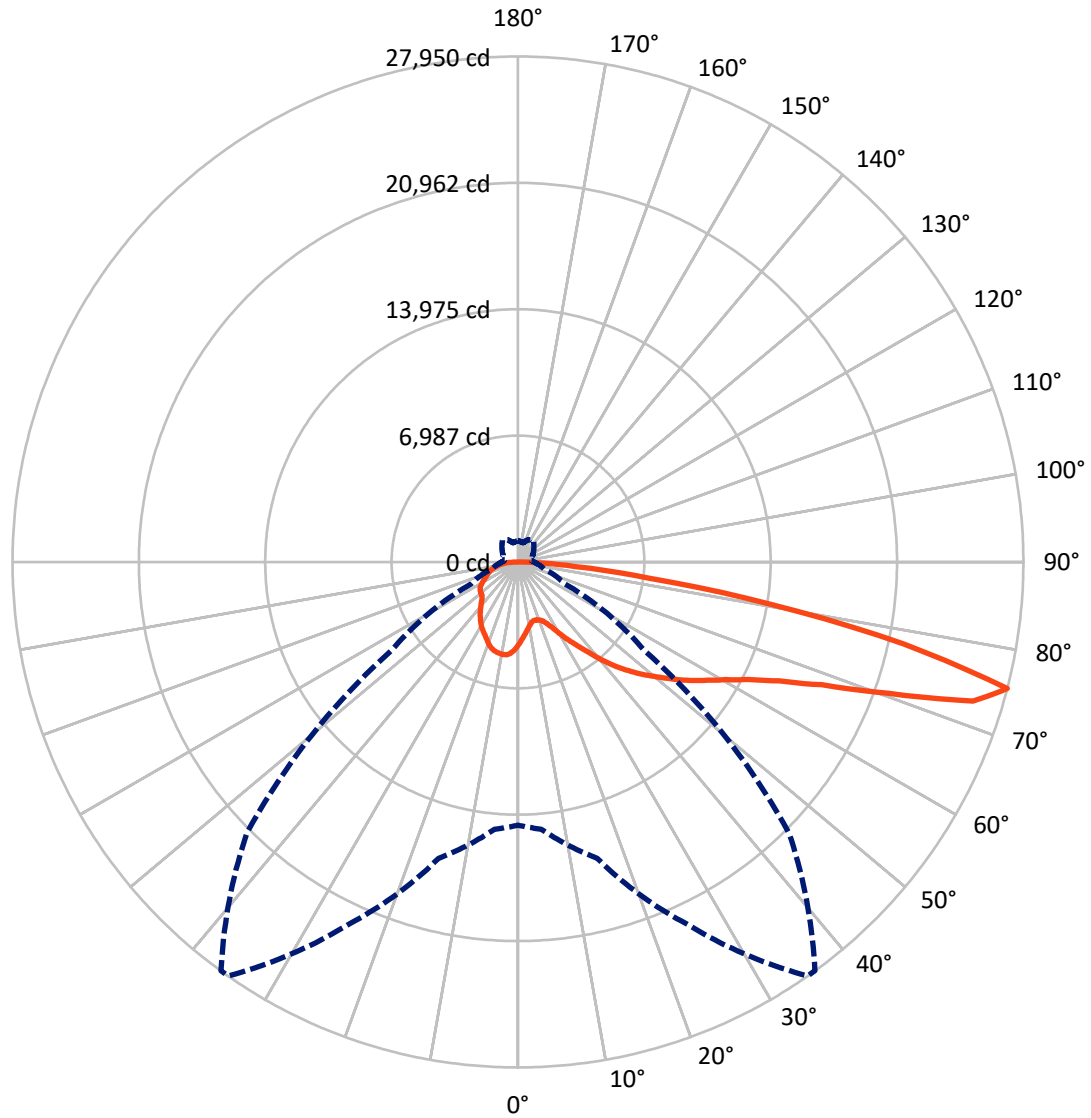
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	8160.6	0.0	8160.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	26131.4	0.0	26131.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	34292.0	0.0	34292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.7	1.3
10°-20°	1248.0	3.6
20°-30°	2095.7	6.1
30°-40°	3256.9	9.5
40°-50°	4834.2	14.1
50°-60°	6673.8	19.5
60°-70°	8096.9	23.6
70°-80°	6691.5	19.5
80°-90°	962.4	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°	34292.0	100.0
0°-180°	34292.0	100.0

**Coefficient of Utilization**



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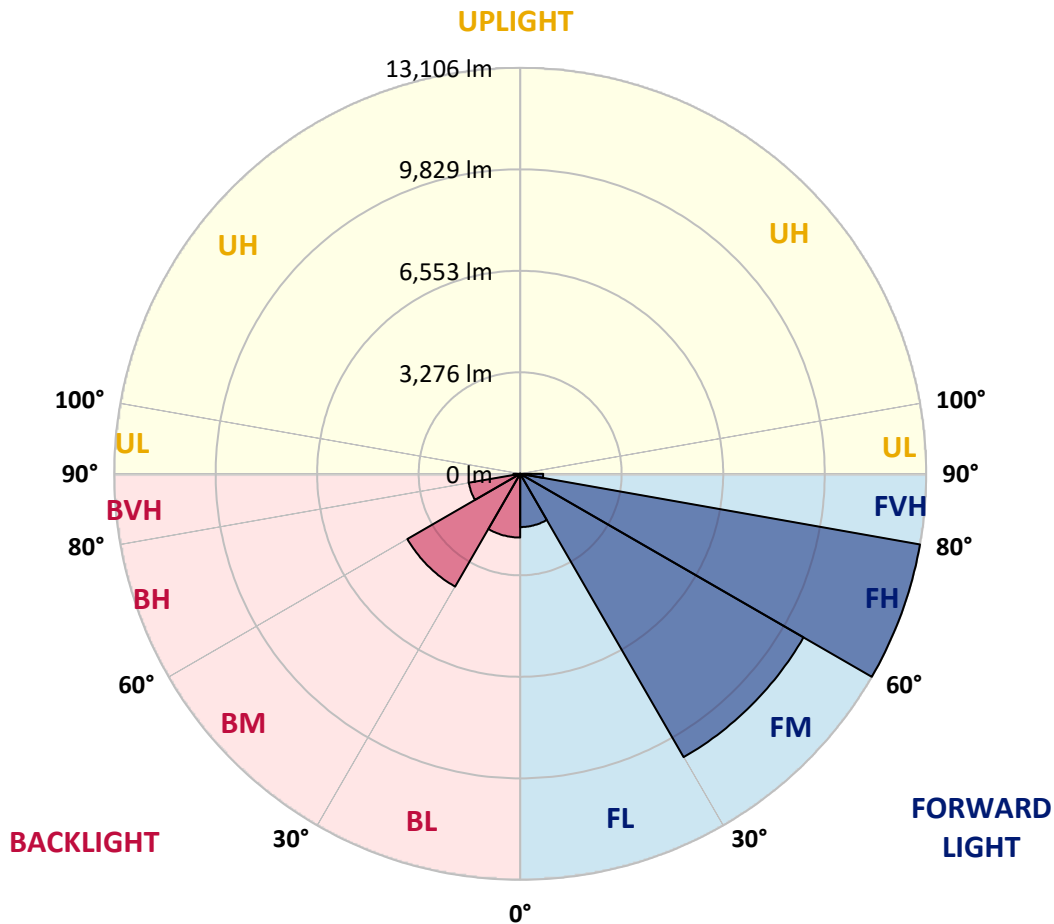
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.7	5.0			
FM (30°-60°)	10560.1	30.8			
FH (60°-80°)	13105.9	38.2			G5
FVH (80°-90°)	745.7	2.2			G4/750
BL (0°-30°)	2056.6	6.0	B3/2500		
BM (30°-60°)	4204.9	12.3	B3/5000		
BH (60°-80°)	1682.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	216.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6
2.5°	4213.7	4239.7	4250.8	4245.2	4273.0	4269.3	4308.3	4356.5	4423.2	4488.1
5°	3889.3	3917.1	3941.2	3963.4	4017.2	4033.9	4095.1	4187.8	4310.1	4434.3
7.5°	3587.1	3611.2	3648.3	3689.1	3779.9	3796.6	3898.6	4043.2	4213.7	4395.4
10°	3340.6	3364.7	3403.6	3449.9	3563.0	3583.4	3713.2	3906.0	4128.4	4358.3
12.5°	3234.9	3242.3	3264.6	3310.9	3409.2	3422.1	3564.9	3785.5	4045.0	4330.5
15°	3229.3	3244.2	3246.0	3270.1	3351.7	3357.2	3488.9	3707.6	3993.1	4324.9
17.5°	3285.0	3296.1	3279.4	3294.2	3362.8	3372.1	3475.9	3670.5	3976.4	4349.0
20°	3433.3	3442.5	3392.5	3372.1	3422.1	3429.5	3531.5	3694.6	3993.1	4399.1
22.5°	3748.4	3754.0	3631.6	3548.2	3551.9	3555.6	3644.6	3792.9	4058.0	4489.9
25°	4239.7	4236.0	4041.3	3880.0	3787.3	3766.9	3826.3	3952.3	4167.4	4610.4
27.5°	4814.3	4786.5	4591.9	4350.9	4148.8	4119.2	4106.2	4159.9	4323.1	4769.9
30°	5463.2	5437.2	5227.7	4912.6	4632.7	4584.5	4462.1	4434.3	4554.8	4986.7
32.5°	6175.0	6158.4	5908.1	5526.2	5151.7	5096.1	4890.4	4816.2	4910.7	5314.9
35°	6772.0	6757.1	6549.5	6156.5	5698.6	5630.0	5420.5	5337.1	5385.3	5735.7
37.5°	7311.4	7304.0	7126.0	6816.5	6343.7	6260.3	6024.9	5997.1	5987.8	6290.0
40°	7812.0	7793.4	7608.0	7444.9	7094.5	7018.5	6810.9	6786.8	6716.4	6972.2
42.5°	8366.2	8318.0	8049.2	7973.2	7878.7	7815.7	7691.5	7695.2	7539.4	7741.5
45°	8818.6	8790.8	8514.5	8470.1	8572.0	8546.1	8653.6	8681.4	8379.2	8547.9
47.5°	9304.3	9278.3	9044.7	9013.2	9289.4	9296.9	9676.9	9686.2	9198.6	9385.8
50°	9903.1	9866.0	9634.2	9673.2	9982.8	10010.6	10705.8	10642.7	9953.1	10236.7
52.5°	10297.9	10320.2	10270.1	10333.1	10755.8	10781.8	11717.9	11556.6	10700.2	11076.5
55°	10589.0	10633.5	10789.2	10933.8	11571.5	11597.4	12672.6	12426.1	11319.4	11855.1
57.5°	10963.4	10900.4	11191.4	11473.2	12346.4	12415.0	13601.4	13264.0	11868.1	12526.2
60°	11501.0	11456.5	11682.7	12099.8	13214.0	13323.3	14583.9	14018.5	12270.4	13058.2
62.5°	12591.1	12479.8	12515.1	12884.0	14307.7	14452.3	15692.5	14676.6	12470.6	13265.9
65°	14220.6	14029.6	13851.7	14107.5	15848.2	15991.0	16943.8	15193.8	12396.4	12863.6
67.5°	16272.7	16083.7	15864.9	16105.9	18117.3	18230.4	18488.0	15484.9	11812.5	11313.8
70°	17965.3	17894.8	18156.2	19148.0	21741.5	21745.2	20467.9	15243.9	10212.6	8021.4
72.5°	17741.0	17698.3	19075.7	22141.9	26309.3	26211.0	22342.1	13419.7	6879.5	3618.6
75°	14554.3	14830.5	16964.2	22088.1	27949.9	27936.9	21194.6	8531.2	2845.6	1499.7
77.5°	7804.5	8242.0	11013.5	16308.0	21819.3	22147.5	14900.9	2984.6	1221.7	960.3
80°	2545.3	2927.2	4389.8	8303.2	14177.9	14116.8	6386.4	1171.6	836.1	680.3
82.5°	1080.8	1125.3	1961.3	3920.8	7276.2	7163.1	2033.6	672.9	587.7	465.3
85°	422.7	472.7	865.7	1813.0	3151.5	3082.9	734.1	333.7	376.3	304.0
87.5°	139.0	168.7	309.6	621.0	980.7	945.4	179.8	114.9	163.1	139.0
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°
4569.6	0°	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6	4569.6
4582.6	2.5°	4608.6	4638.2	4673.5	4725.4	4769.9	4806.9	4845.9	4870.0	4879.2	4907.0
4590.0	5°	4641.9	4706.8	4794.0	4879.2	4962.6	5012.7	5057.2	5079.4	5099.8	5114.7
4610.4	7.5°	4697.6	4781.0	4918.2	5029.4	5099.8	5140.6	5170.3	5162.9	5170.3	5174.0
4632.7	10°	4745.8	4862.5	5025.7	5131.3	5185.1	5187.0	5179.5	5153.6	5140.6	5142.5
4666.0	12.5°	4803.2	4933.0	5109.1	5198.1	5212.9	5172.1	5140.6	5096.1	5079.4	5072.0
4716.1	15°	4881.1	5029.4	5199.9	5233.3	5196.2	5144.3	5090.6	5018.3	4981.2	4951.5
4801.4	17.5°	4975.6	5138.8	5270.4	5246.3	5166.6	5081.3	4994.2	4884.8	4808.8	4777.3
4918.2	20°	5107.2	5253.7	5324.1	5218.5	5098.0	4968.2	4819.9	4686.4	4616.0	4584.5
5066.5	22.5°	5266.7	5407.6	5376.0	5170.3	4999.7	4792.1	4606.7	4508.5	4473.2	4451.0
5257.4	25°	5457.6	5578.1	5413.1	5099.8	4838.4	4558.5	4415.8	4384.3	4367.6	4350.9
5491.0	27.5°	5706.0	5770.9	5440.9	4996.0	4586.3	4310.1	4258.2	4263.8	4258.2	4230.4
5815.4	30°	6034.2	6021.2	5466.9	4827.3	4297.1	4085.8	4089.5	4113.6	4117.3	4098.8
6267.7	32.5°	6466.1	6334.5	5479.9	4608.6	4020.9	3889.3	3893.0	3919.0	3937.5	3906.0
6859.1	35°	6988.9	6699.7	5459.5	4334.2	3807.7	3702.1	3674.3	3681.7	3687.2	3657.6
7576.5	37.5°	7598.8	7109.4	5368.6	4030.2	3631.6	3518.5	3459.2	3409.2	3379.5	3351.7
8388.5	40°	8268.0	7556.1	5201.8	3733.6	3435.1	3323.9	3234.9	3140.4	3040.2	3003.2
9248.7	42.5°	8968.7	8015.9	4999.7	3449.9	3208.9	3118.1	3023.6	2886.4	2736.2	2660.2
10142.2	45°	9695.4	8486.7	4801.4	3170.0	2977.2	2938.3	2828.9	2663.9	2500.8	2404.4
11037.6	47.5°	10407.3	8931.7	4510.3	2888.2	2760.3	2803.0	2717.7	2565.7	2384.0	2232.0
11925.6	50°	11087.6	9348.8	4033.9	2602.7	2584.2	2762.2	2680.6	2461.9	2254.2	2059.6
12796.8	52.5°	11762.4	9686.2	3424.0	2343.2	2489.7	2751.1	2632.4	2391.4	2137.4	1933.5
13616.2	55°	12335.2	9860.4	2836.3	2120.8	2352.5	2656.5	2574.9	2308.0	1972.5	1755.6
14177.9	57.5°	12661.5	9719.5	2346.9	1902.0	2163.4	2500.8	2476.7	2130.0	1775.9	1609.1
14287.3	60°	12520.6	9148.6	1946.5	1711.1	1983.6	2332.1	2306.1	1953.9	1625.8	1468.2
13701.5	62.5°	11743.9	8060.4	1629.5	1544.2	1820.4	2159.7	2135.6	1818.6	1510.9	1358.8
12146.2	65°	10179.3	6556.9	1382.9	1405.2	1655.5	1952.1	1987.3	1705.5	1420.0	1271.7
9397.0	67.5°	7763.8	4749.5	1190.1	1284.7	1494.2	1748.1	1850.1	1623.9	1344.0	1203.1
5437.2	70°	4425.0	2697.3	1027.0	1167.9	1351.4	1559.1	1744.4	1559.1	1262.4	1145.7
2037.3	72.5°	1677.7	1238.3	888.0	1051.1	1214.2	1399.6	1627.6	1457.1	1167.9	1080.8
1053.0	75°	895.4	754.5	747.1	913.9	1056.7	1243.9	1481.2	1357.0	1097.5	1141.9
728.5	77.5°	609.9	533.9	624.7	782.3	884.3	1071.5	1325.5	1205.0	951.0	947.3
504.2	80°	422.7	378.2	507.9	630.3	684.1	901.0	1156.8	1034.4	774.9	723.0
311.4	82.5°	254.0	246.6	380.0	470.9	483.8	695.2	958.4	867.6	634.0	552.4
185.4	85°	139.0	146.5	242.8	276.2	281.8	485.7	750.8	671.1	487.6	409.7
66.7	87.5°	38.9	50.1	89.0	109.4	135.3	252.1	446.8	398.6	244.7	170.6
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>
4569.6
4905.2
5118.4
5179.5
5146.2
5068.3
4960.8
4779.1
4580.8
4454.7
4350.9
4236.0
4108.0
3920.8
3678.0
3370.2
3019.9
2669.5
2397.0
2215.3
2042.9
1911.3
1737.0
1586.9
1446.0
1334.7
1247.6
1180.9
1130.8
1065.9
<i>1179.0</i>
873.1
691.5
556.1
413.4
170.6
0.0

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