

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: P943865

Luminaire Tested: **GALN-SB8C-750-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-750-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63482 lumens  
Efficiency: N/A  
Efficacy: 158.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5

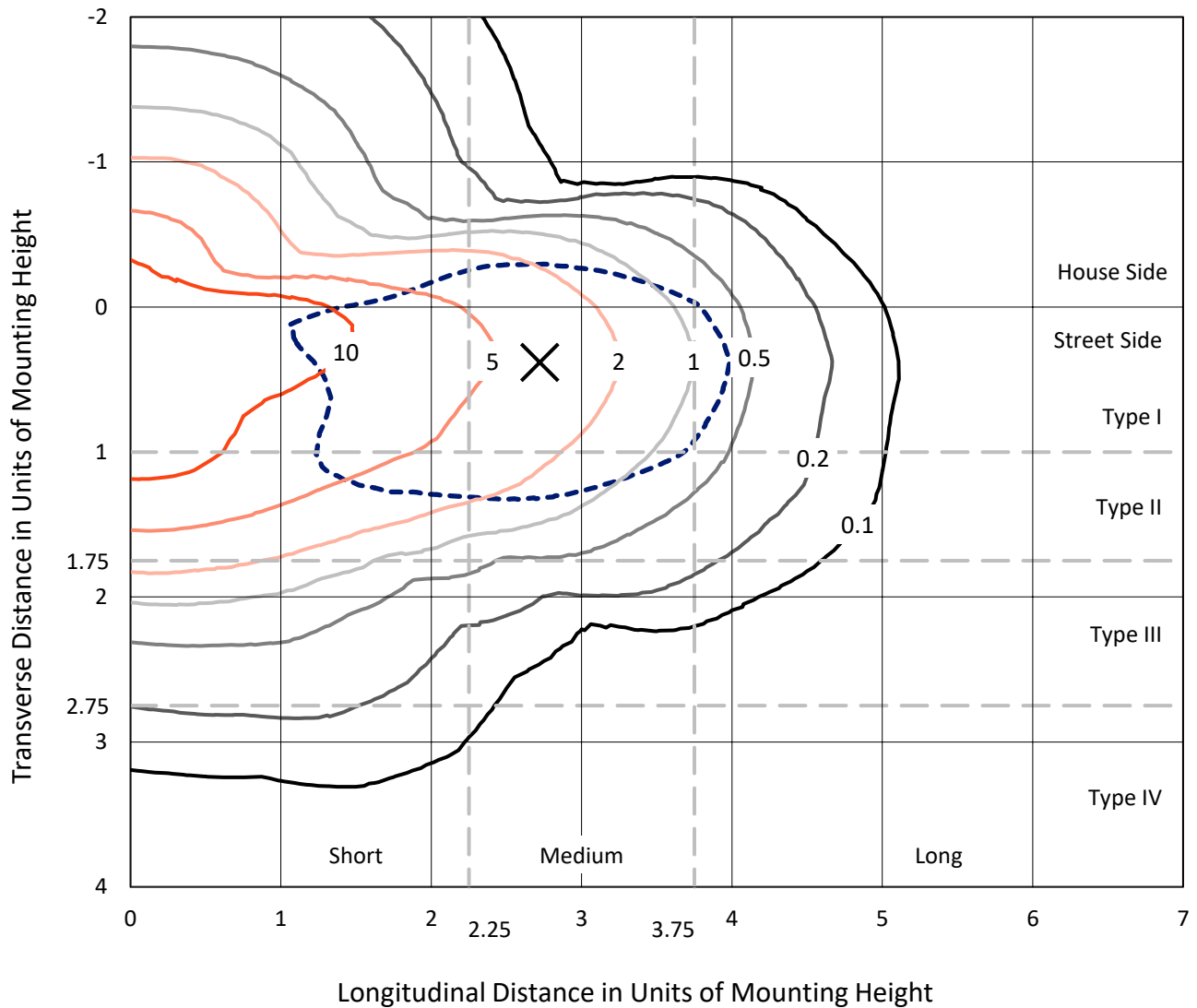
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

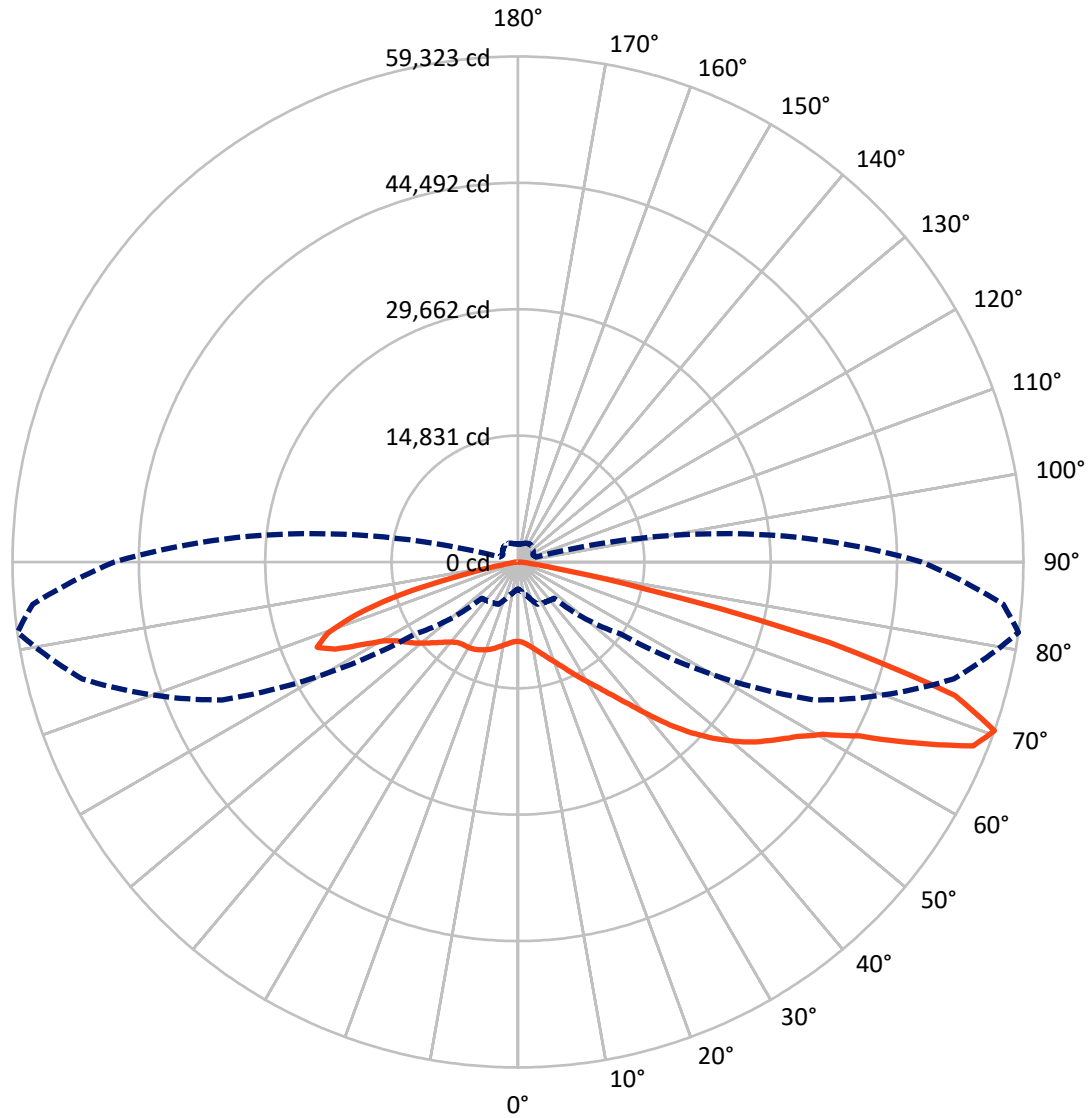
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15649.9	0.0	15649.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	47832.1	0.0	47832.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	63482.0	0.0	63482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	878.8	1.4
10°-20°	2524.8	4.0
20°-30°	4223.7	6.7
30°-40°	6598.5	10.4
40°-50°	10508.8	16.6
50°-60°	14624.3	23.0
60°-70°	15297.7	24.1
70°-80°	7995.4	12.6
80°-90°	830.2	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°	63482.0	100.0
0°-180°	63482.0	100.0

**Coefficient of Utilization**



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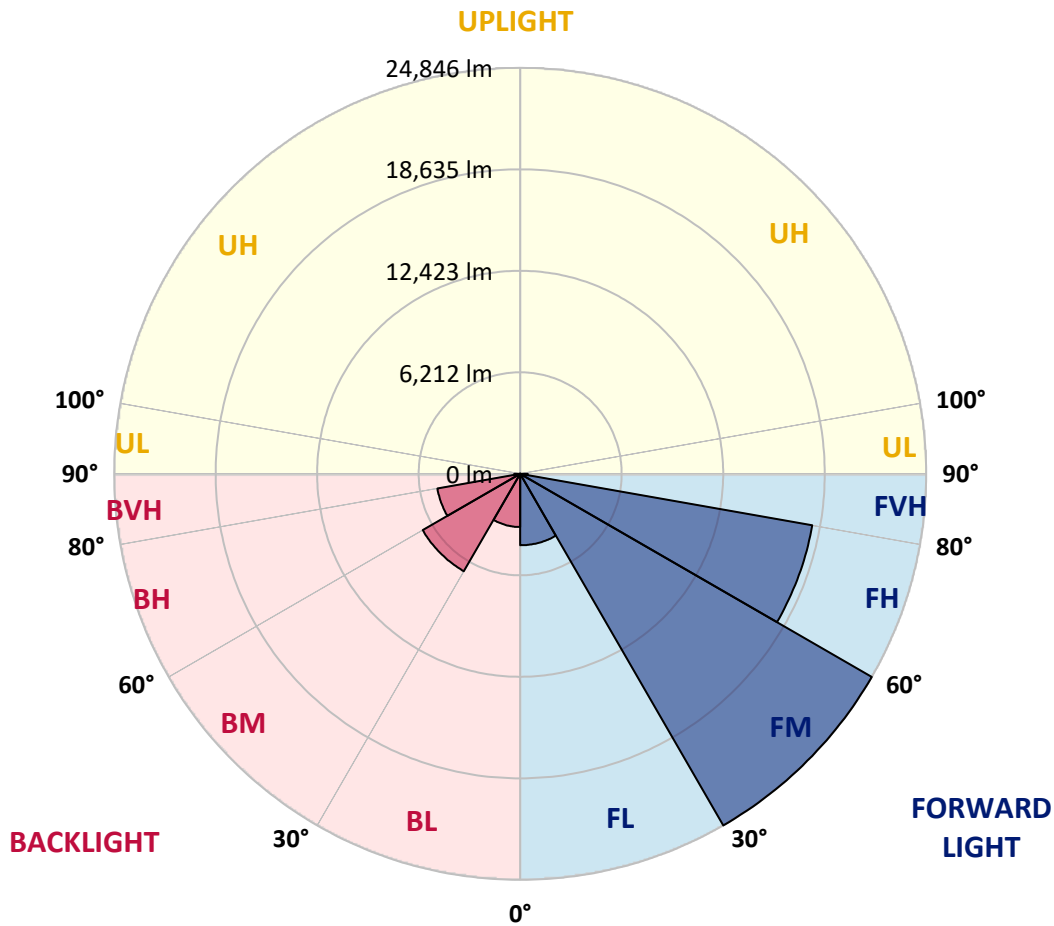
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4371.4	6.9			
FM (30°-60°)	24846.2	39.1			
FH (60°-80°)	18149.7	28.6			G5
FVH (80°-90°)	464.8	0.7			G3/500
BL (0°-30°)	3255.7	5.1	B4/5000		
BM (30°-60°)	6885.3	10.8	B4/8500		
BH (60°-80°)	5143.3	8.1	B5		G5
BVH (80°-90°)	365.5	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3
2.5°	9529.6	9583.5	9566.6	9549.8	9549.8	9526.2	9522.8	9489.2	9462.2	9418.4
5°	9650.8	9708.1	9701.4	9714.8	9758.6	9768.7	9778.8	9758.6	9704.7	9650.8
7.5°	9543.1	9607.1	9627.3	9708.1	9842.9	9964.1	10055.1	10092.1	10041.6	9964.1
10°	9179.3	9250.0	9320.7	9512.7	9751.9	10038.2	10280.8	10425.6	10415.5	10341.4
12.5°	8441.5	8515.6	8667.2	9041.1	9479.1	9984.3	10435.7	10738.9	10843.3	10789.4
15°	7852.0	7916.1	8030.6	8414.6	8983.9	9751.9	10493.0	11082.5	11348.6	11318.3
17.5°	7835.2	7862.2	7932.9	8114.8	8552.7	9388.1	10432.3	11419.3	11928.0	11924.6
20°	8131.6	8141.7	8182.2	8219.2	8468.5	9111.9	10277.4	11698.9	12578.1	12578.1
22.5°	8542.6	8535.9	8576.3	8542.6	8663.9	9088.3	10179.7	11944.8	13302.3	13356.2
25°	9159.0	9125.4	9115.2	9037.8	9061.4	9307.3	10287.5	12224.4	14161.3	14272.5
27.5°	9981.0	9927.1	9890.0	9711.5	9650.8	9758.6	10617.6	12561.3	15118.0	15310.0
30°	11052.2	10954.5	10900.6	10590.7	10371.7	10388.6	11116.2	13009.3	16118.4	16428.3
32.5°	12514.1	12362.5	12217.7	11709.0	11308.2	11176.8	11759.5	13629.1	17203.1	17698.3
35°	14151.2	14029.9	13875.0	13090.1	12473.7	12170.5	12628.6	14494.8	18473.0	19257.9
37.5°	15727.7	15623.3	15697.4	14639.6	13844.7	13403.4	13767.2	15656.9	20039.4	21198.2
40°	17358.0	17277.2	17287.3	16276.7	15350.4	14855.2	15148.3	17115.5	21834.8	23505.6
42.5°	19129.9	19069.3	18867.1	17971.1	16930.2	16468.8	16738.2	18799.8	23761.6	26133.1
45°	21114.0	21076.9	20888.3	19860.9	18668.4	18149.7	18513.5	20659.2	25698.5	28605.6
47.5°	22828.5	22858.9	22835.3	21969.6	20733.3	19972.0	20406.6	22599.5	27500.7	30929.9
50°	23653.8	23812.2	24044.6	23775.1	23007.1	22232.3	22316.5	24472.4	29218.7	33109.3
52.5°	23222.7	23522.5	24155.7	24586.9	24883.3	24721.7	24496.0	26331.8	30835.5	35076.5
55°	21615.9	22036.9	23087.9	24128.8	25641.3	26816.9	27113.3	28393.4	32412.0	36808.0
57.5°	18688.6	19372.4	20315.6	22421.0	24967.6	27830.8	30165.2	31253.2	34082.8	38657.3
60°	13669.5	14585.7	15758.0	18890.7	22609.6	27288.5	32762.3	35645.8	36457.6	41052.3
62.5°	8748.1	9314.0	10391.9	13342.8	17617.4	24509.4	33557.3	41136.5	40483.0	44980.0
65°	5989.3	6353.1	7340.0	8997.4	11389.0	18244.0	31428.4	45252.9	46876.5	51205.1
67.5°	4352.1	4628.4	5470.5	6922.3	7420.9	10796.1	24388.2	45064.2	53091.4	57618.7
70°	3173.2	3368.5	4075.9	5470.5	5709.7	6006.1	14774.4	38307.0	52956.7	59323.2
72.5°	2351.2	2486.0	2960.9	4244.4	4621.6	4055.7	7313.1	27840.9	45505.5	53657.4
75°	1701.1	1802.2	2152.5	3247.3	3698.6	3088.9	3648.1	16270.0	31741.7	37744.4
77.5°	1300.3	1377.7	1606.8	2378.2	2960.9	2317.6	2263.7	7484.9	15050.6	15124.7
80°	1044.2	1094.8	1219.4	1674.2	2270.4	1734.8	1475.4	3021.6	4756.4	4025.4
82.5°	768.0	852.2	1030.8	1175.6	1623.6	1195.8	899.4	1525.9	1808.9	1556.3
85°	437.9	495.2	623.2	842.1	1037.5	731.0	515.4	677.1	842.1	690.5
87.5°	155.0	202.1	219.0	330.1	451.4	303.2	198.7	195.4	276.2	205.5
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°
9307.3	0°	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3	9307.3
9408.3	2.5°	9374.6	9357.8	9290.4	9199.5	9105.1	9014.2	8983.9	8919.9	8876.1	8852.5
9627.3	5°	9563.3	9509.4	9351.0	9148.9	8936.7	8707.7	8546.0	8397.8	8290.0	8188.9
9927.1	7.5°	9832.7	9738.4	9465.6	9111.9	8734.6	8354.0	8071.0	7855.4	7710.6	7616.3
10277.4	10°	10146.0	10001.2	9583.5	9054.6	8471.9	7926.2	7592.7	7407.4	7316.5	7265.9
10678.2	12.5°	10506.5	10301.0	9704.7	8923.2	8071.0	7447.8	7218.8	7164.9	7168.2	7171.6
11183.5	15°	10951.1	10664.8	9802.4	8636.9	7548.9	7080.7	7040.2	7127.8	7218.8	7262.6
11756.2	17.5°	11453.0	11048.8	9819.3	8165.3	7036.9	6844.9	6972.9	7161.5	7299.6	7360.2
12396.2	20°	11992.0	11439.5	9698.0	7498.4	6615.8	6652.9	6881.9	7124.4	7276.0	7353.5
13127.2	22.5°	12608.4	11857.2	9408.3	6797.7	6272.2	6444.0	6713.5	6949.3	7107.6	7185.1
13986.1	25°	13312.4	12325.5	8953.6	6208.2	5975.8	6208.2	6477.7	6673.1	6801.1	6871.8
14946.2	27.5°	14093.9	12813.9	8347.2	5740.0	5716.4	5965.7	6188.0	6339.6	6406.9	6460.8
15966.8	30°	14878.8	13258.5	7612.9	5386.3	5490.7	5726.5	5884.8	5952.2	5972.4	5982.5
17105.4	32.5°	15727.7	13642.6	6841.5	5093.2	5275.1	5494.1	5588.4	5618.7	5524.4	5460.4
18486.5	35°	16755.1	14053.5	6086.9	4860.8	5062.9	5251.5	5281.9	5254.9	5143.7	5012.4
20217.9	37.5°	18025.0	14565.5	5484.0	4695.7	4864.2	4988.8	4951.7	4945.0	4955.1	4800.2
22299.7	40°	19581.3	15232.5	5042.7	4567.7	4702.5	4729.4	4625.0	4682.3	4732.8	4497.0
24583.5	42.5°	21309.3	16037.6	4763.1	4480.1	4567.7	4503.7	4342.0	4406.0	4399.3	4089.4
26877.5	45°	23071.1	16913.4	4665.4	4416.1	4443.1	4315.1	4136.6	4153.4	4011.9	3732.3
29077.2	47.5°	24822.7	17853.2	4726.1	4362.2	4288.1	4143.3	4005.2	3931.1	3722.2	3513.4
31185.9	50°	26540.7	18840.2	4948.4	4254.5	4075.9	3991.7	3890.7	3759.3	3537.0	3358.4
33180.0	52.5°	28134.0	19833.9	5197.6	4075.9	3809.8	3860.3	3796.3	3644.8	3425.8	3243.9
35066.4	55°	29643.1	20827.6	5295.3	3830.0	3560.5	3745.8	3708.8	3429.2	3166.4	3018.2
37040.4	57.5°	31286.9	22023.5	5187.5	3516.7	3358.4	3614.4	3473.0	3163.1	3011.5	2900.3
39610.6	60°	33564.1	23899.7	4955.1	3129.4	3166.4	3419.1	3176.5	3048.5	2883.5	2758.8
43464.2	62.5°	37346.9	27399.6	4581.2	2745.4	2940.7	3129.4	3035.0	2907.0	2738.6	2617.3
50053.0	65°	42938.7	32263.8	3877.2	2445.6	2688.1	2846.4	2883.5	2755.5	2580.3	2452.3
55826.7	67.5°	47654.6	35315.7	2934.0	2196.3	2428.7	2617.3	2721.8	2597.1	2411.9	2287.2
57177.5	70°	47395.3	33099.2	2240.1	1950.4	2199.7	2391.7	2526.4	2428.7	2230.0	2112.1
51936.0	72.5°	42096.5	27689.3	1812.3	1701.1	1967.2	2155.9	2317.6	2243.4	2041.3	1926.8
38047.6	75°	30926.5	19655.4	1448.5	1448.5	1677.5	1910.0	2088.5	2041.3	1856.1	1775.2
15973.6	77.5°	13036.2	8246.2	1135.2	1202.6	1394.6	1640.5	1862.8	1879.6	1718.0	1819.0
4224.1	80°	3466.2	2273.8	865.7	946.6	1094.8	1354.2	1620.3	1613.5	1438.4	1344.0
1569.7	82.5°	1320.5	896.0	616.4	667.0	791.6	1037.5	1283.4	1323.8	1148.7	993.7
616.4	85°	508.6	384.0	380.6	400.9	461.5	687.2	970.1	1003.8	865.7	734.3
171.8	87.5°	131.4	114.5	141.5	134.7	212.2	367.2	555.8	576.0	528.9	306.5
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>
9307.3
8879.5
8229.3
7636.5
7279.4
7178.3
7259.2
7373.7
7373.7
7205.3
6892.0
6481.1
6006.1
5480.6
5019.1
4810.3
4503.7
4086.0
3742.4
3513.4
3345.0
3247.3
3004.7
2890.2
2752.1
2617.3
2459.0
2290.6
2122.2
1926.8
1751.6
1650.6
1249.7
993.7
757.9
437.9
0.0

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