

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: P955789

Luminaire Tested: **GALN-SB8C-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955789
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-SB8C-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59466 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

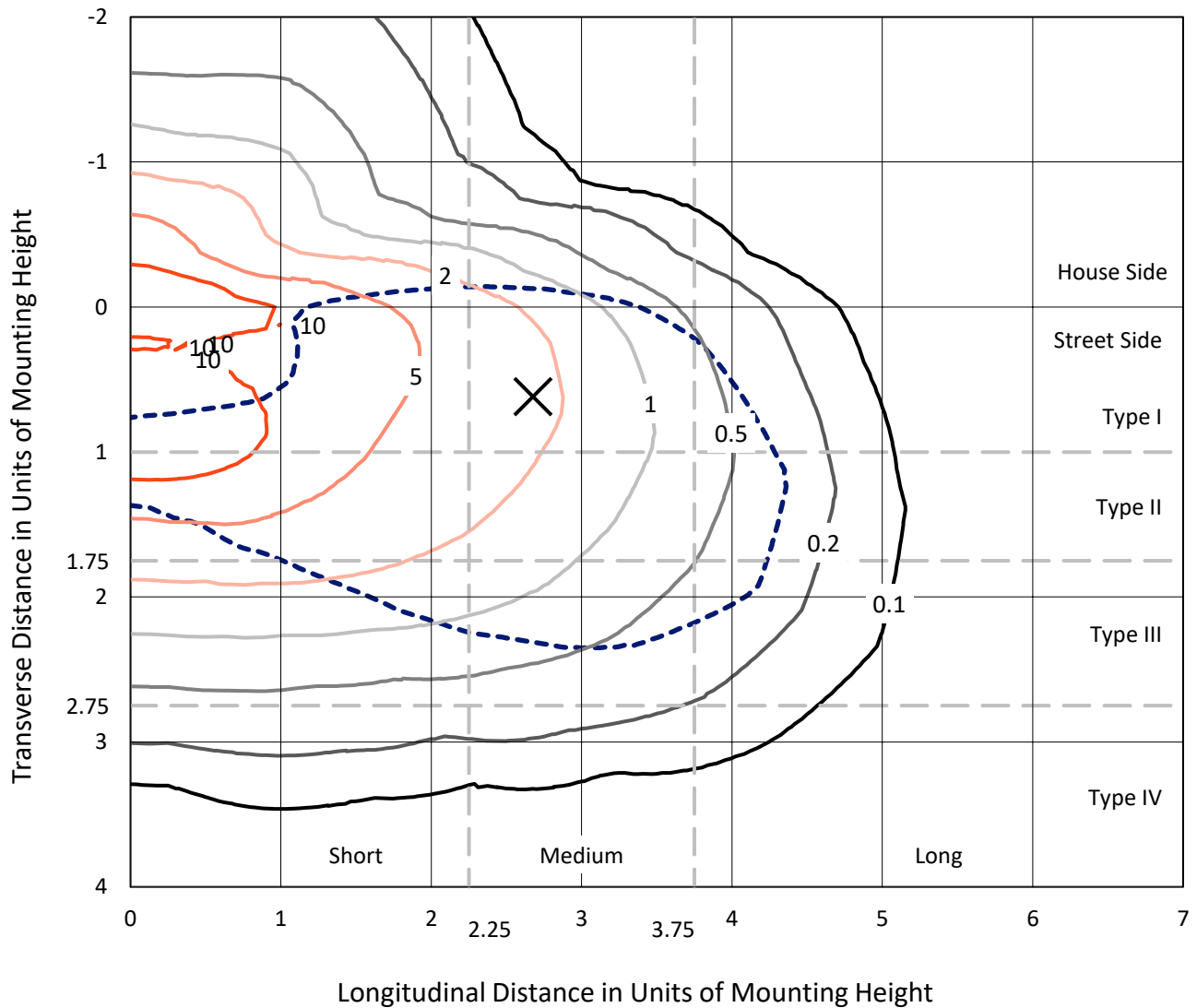
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

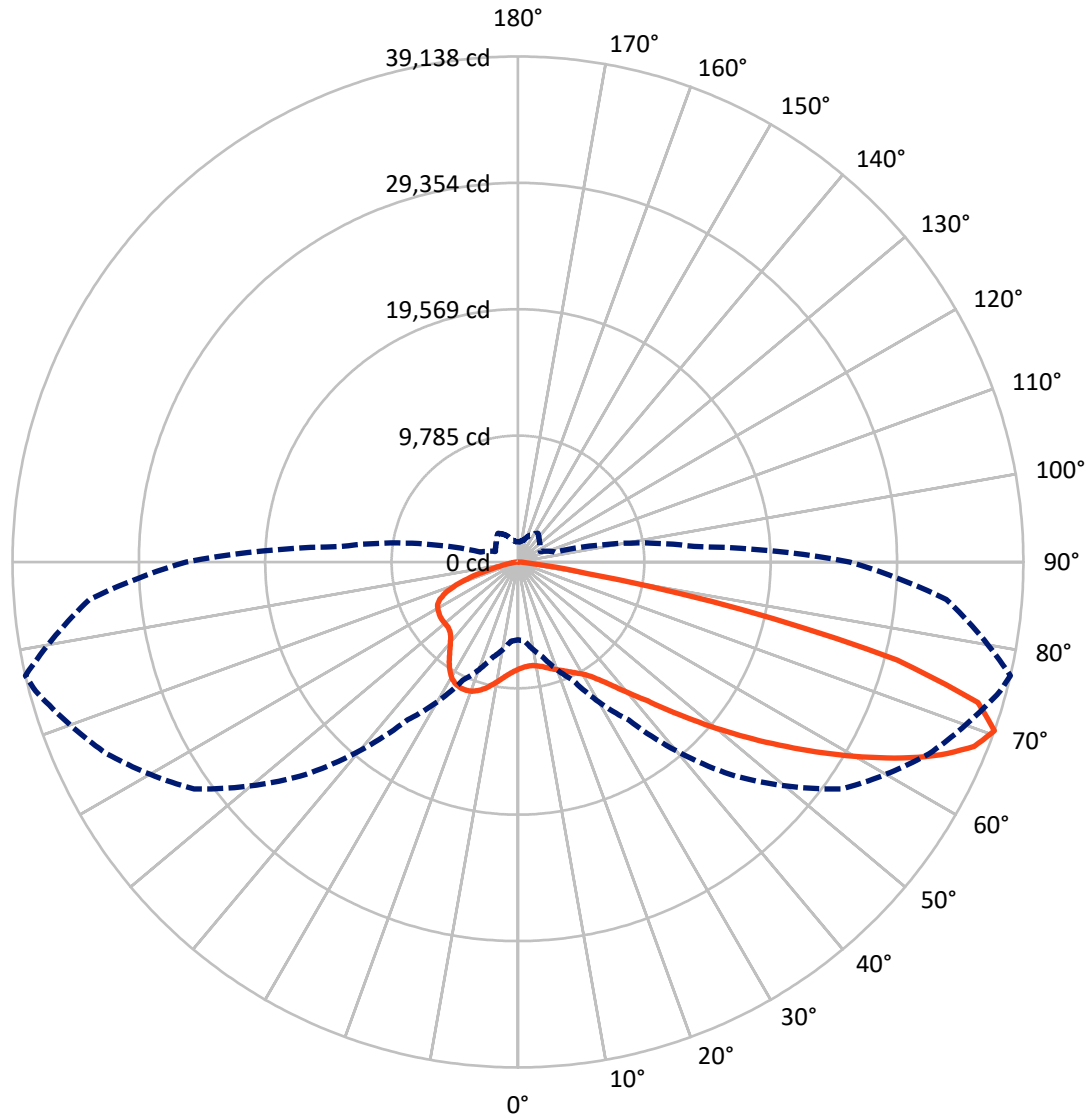
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	13022.1	0.0	13022.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	46443.9	0.0	46443.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	59466.0	0.0	59466.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.2	1.3
10°-20°	2283.5	3.8
20°-30°	3905.2	6.6
30°-40°	6279.9	10.6
40°-50°	9804.6	16.5
50°-60°	13096.6	22.0
60°-70°	13958.9	23.5
70°-80°	8593.0	14.5
80°-90°	753.0	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°	59466.0	100.0
0°-180°	59466.0	100.0



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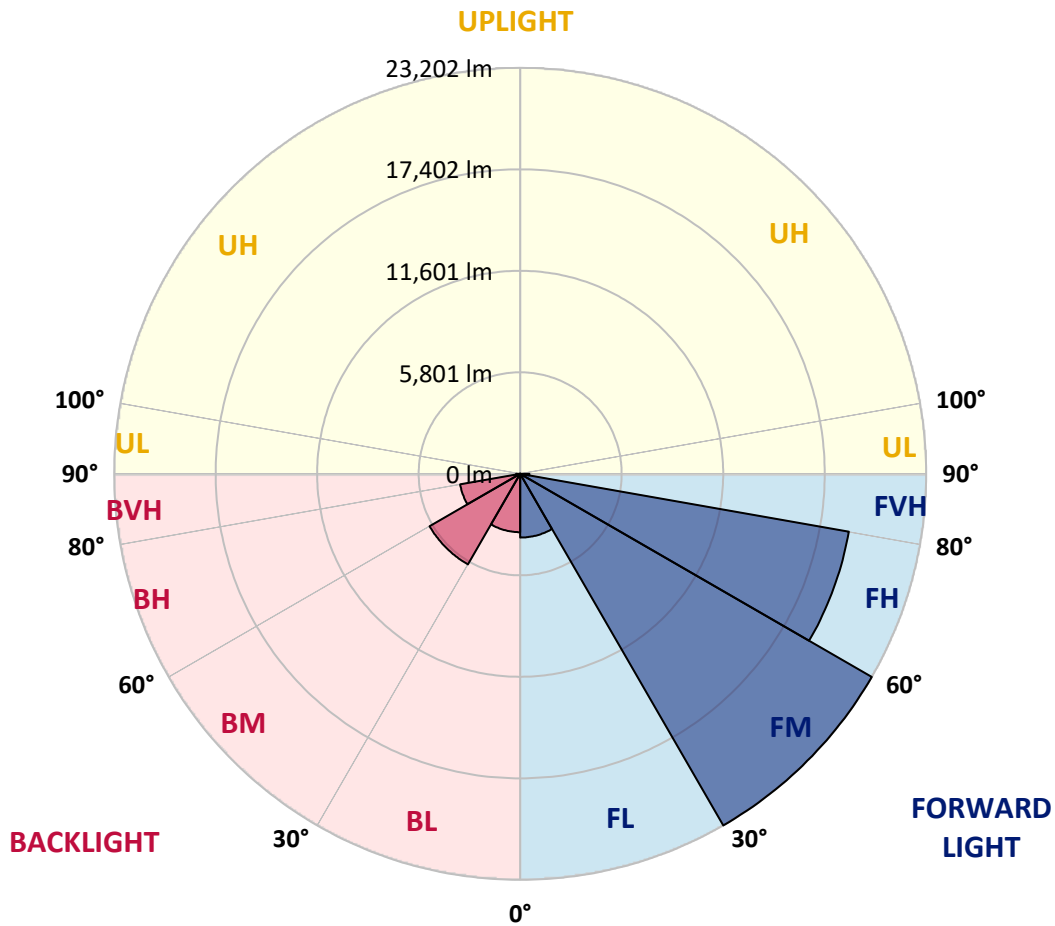
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3643.2	6.1			
FM (30°-60°)	23202.4	39.0			
FH (60°-80°)	19071.7	32.1			G5
FVH (80°-90°)	526.5	0.9			G4/750
BL (0°-30°)	3336.7	5.6	B4/5000		
BM (30°-60°)	5978.8	10.1	B4/8500		
BH (60°-80°)	3480.2	5.9	B4/5000		G4/5000
BVH (80°-90°)	226.5	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0
2.5°	7647.3	7644.3	7683.9	7696.1	7769.2	7820.9	7918.4	8022.0	8156.0	8171.2
5°	7205.7	7205.7	7251.4	7300.2	7394.6	7498.1	7647.3	7827.0	8058.5	8095.0
7.5°	6831.1	6855.5	6895.1	6989.5	7099.2	7248.4	7476.8	7732.6	8037.2	8095.0
10°	6529.6	6557.0	6605.8	6681.9	6846.4	7053.5	7351.9	7680.9	8089.0	8180.3
12.5°	6435.2	6462.6	6490.0	6547.9	6700.2	6943.8	7300.2	7705.2	8213.8	8305.2
15°	6654.5	6688.0	6666.7	6651.5	6730.6	6953.0	7324.5	7793.5	8369.1	8500.1
17.5°	7160.1	7172.2	7123.5	6980.4	6968.2	7087.0	7440.3	7915.4	8564.1	8707.2
20°	7976.3	7954.9	7854.4	7571.2	7409.8	7385.4	7638.2	8098.1	8765.1	8917.3
22.5°	9084.8	9060.5	8859.5	8411.8	8052.4	7814.9	7924.5	8335.6	8990.4	9161.0
25°	10467.5	10434.0	10138.6	9529.5	8972.2	8384.4	8314.3	8649.3	9267.6	9425.9
27.5°	12081.7	12054.2	11734.5	10930.4	10126.4	9164.0	8798.6	9017.8	9556.9	9736.6
30°	13817.6	13896.8	13330.3	12465.4	11448.2	10181.2	9450.3	9471.6	9931.5	10092.9
32.5°	15858.1	15995.2	15313.0	14216.6	12827.8	11286.8	10272.6	10105.1	10476.7	10610.7
35°	17880.4	18035.7	17469.2	16257.1	14658.2	12590.3	11131.4	10833.0	11201.5	11347.7
37.5°	19628.5	19835.6	19543.2	18489.5	16616.5	14161.8	12252.2	11688.8	12093.8	12276.6
40°	21008.1	21324.9	21303.5	20645.7	18925.0	16068.3	13674.5	12745.6	13202.4	13400.4
42.5°	22128.9	22403.0	22640.5	22607.0	21334.0	18233.6	15346.5	14119.1	14466.3	14694.7
45°	22902.5	23194.8	23706.5	24257.7	23651.7	20551.3	17262.1	15748.5	16065.2	16409.4
47.5°	23593.8	23925.8	24589.7	25463.8	25619.1	22878.1	19360.5	17645.9	17935.2	18291.5
50°	23654.7	23941.0	24970.4	26209.9	27017.0	25113.5	21614.2	19774.7	20045.7	20426.4
52.5°	22183.7	22634.4	24431.3	26188.6	27659.6	26983.5	23852.7	21988.8	22293.3	22750.2
55°	17219.5	17880.4	22850.7	25372.4	27431.2	28192.6	25981.5	24343.0	24732.8	25211.0
57.5°	14831.8	15121.1	18139.2	23886.2	26389.6	28506.2	27778.4	26721.6	27348.9	27872.8
60°	13330.3	13570.9	15355.6	21574.6	25019.1	28009.8	29167.1	28938.7	30022.9	30647.3
62.5°	11722.3	11950.7	13574.0	18014.4	23264.9	27184.5	30044.2	30985.3	32763.9	33446.1
65°	10126.4	10321.3	11877.6	15136.3	21035.5	26359.1	30498.0	32754.8	35300.8	36007.4
67.5°	8347.8	8509.2	9980.2	12769.9	18325.0	25229.2	30723.4	34146.6	37508.9	38114.9
70°	6024.1	6148.9	7668.7	10099.0	14923.1	23286.2	30632.0	35133.3	38654.0	39138.2
72.5°	2847.6	2960.3	4745.0	6557.0	10540.6	19503.6	28783.4	34350.6	37490.6	37250.0
75°	1519.7	1617.2	2725.8	3596.8	5567.2	13369.9	23554.2	29590.5	31481.7	30312.3
77.5°	1029.4	1105.5	1687.2	2159.3	2543.0	6346.9	15139.4	20487.3	19710.7	17779.9
80°	816.2	895.4	1382.7	1461.9	1230.4	2293.3	6255.5	9483.8	6812.9	5448.5
82.5°	627.4	715.7	1163.4	1059.8	670.0	941.1	1821.2	2999.9	1745.1	1327.9
85°	383.7	478.1	913.7	676.1	377.6	429.4	618.2	834.5	533.0	444.6
87.5°	194.9	274.1	462.9	246.7	170.6	100.5	164.5	164.5	140.1	121.8
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°
8296.0	0°	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0	8296.0
8253.4	2.5°	8326.5	8387.4	8491.0	8588.4	8664.6	8737.7	8810.7	8850.3	8862.5	8911.2
8299.1	5°	8424.0	8536.6	8737.7	8926.5	9045.3	9118.3	9170.1	9200.6	9206.7	9221.9
8424.0	7.5°	8603.6	8783.3	9063.5	9252.3	9340.7	9334.6	9313.3	9237.1	9206.7	9179.3
8606.7	10°	8856.4	9094.0	9438.1	9569.1	9514.3	9368.1	9179.3	8956.9	8853.4	8752.9
8856.4	12.5°	9170.1	9471.6	9809.7	9803.6	9532.5	9157.9	8719.4	8378.3	8162.0	8006.7
9164.0	15°	9550.8	9898.0	10156.9	9949.8	9355.9	8682.8	8040.2	7595.6	7400.7	7230.1
9474.7	17.5°	9943.7	10315.2	10434.0	9904.1	8911.2	7979.3	7251.4	6901.2	6709.3	6618.0
9809.7	20°	10327.4	10695.9	10598.5	9642.2	8235.1	7181.4	6532.7	6340.8	6301.2	6322.5
10135.6	22.5°	10732.5	11061.4	10632.0	9136.6	7373.3	6365.2	6008.8	6014.9	6103.3	6167.2
10476.7	25°	11146.7	11369.0	10543.7	8405.7	6447.4	5765.2	5676.9	5774.3	5947.9	6072.8
10860.4	27.5°	11545.6	11643.1	10351.8	7501.2	5652.5	5335.8	5351.0	5552.0	5813.9	5987.5
11326.4	30°	11996.4	11886.7	9983.3	6484.0	5101.3	4967.3	5095.2	5329.7	5591.6	5746.9
11914.2	32.5°	12505.0	12096.9	9398.5	5542.9	4711.4	4671.9	4882.0	5034.3	5150.0	5195.7
12693.8	35°	13138.5	12392.3	8649.3	4882.0	4361.2	4455.6	4656.6	4580.5	4534.8	4510.4
13741.5	37.5°	13960.8	12791.3	7772.2	4452.6	4078.0	4300.3	4382.5	4145.0	3965.3	3877.0
15011.5	40°	14950.6	13376.0	6928.6	4120.6	3898.3	4166.3	4023.2	3736.9	3508.5	3383.6
16439.8	42.5°	16050.0	13988.2	6219.0	3870.9	3797.8	4056.7	3758.2	3417.1	3048.6	3009.0
18142.3	45°	17204.3	14618.6	5734.8	3679.0	3749.1	3962.2	3605.9	3054.7	2792.8	2954.2
19850.8	47.5°	18358.5	15197.2	5442.4	3535.9	3724.7	3855.7	3471.9	2853.7	2667.9	2902.4
21681.2	50°	19643.7	15715.0	5311.4	3432.3	3697.3	3813.0	3270.9	2801.9	2536.9	2692.3
23575.5	52.5°	20919.8	16117.0	5214.0	3328.8	3657.7	3779.5	3173.5	2741.0	2378.6	2387.7
25482.0	55°	22192.8	16378.9	5107.4	3191.7	3569.4	3706.4	3164.3	2674.0	2259.8	2217.2
27498.2	57.5°	23551.2	16528.1	4976.4	3039.4	3417.1	3520.6	3155.2	2622.2	2223.2	2153.2
29560.0	60°	24933.8	16747.4	4805.9	2853.7	3213.0	3298.3	3133.9	2603.9	2201.9	2083.1
31503.1	62.5°	26173.4	16823.6	4601.8	2677.0	2951.1	3079.0	3088.2	2588.7	2144.1	1940.0
33117.2	65°	26986.5	16494.6	4245.5	2476.0	2667.9	2853.7	2999.9	2536.9	2040.5	1836.5
33915.1	67.5°	26953.0	15556.6	3688.1	2217.2	2393.8	2603.9	2871.9	2448.6	1915.6	1708.5
33312.1	70°	25698.3	13704.9	2981.6	1915.6	2092.3	2335.9	2707.5	2317.7	1766.4	1568.5
29620.9	72.5°	22040.6	10726.4	2165.4	1562.4	1742.0	2058.8	2494.3	2159.3	1614.1	1443.6
21891.3	75°	15745.4	6788.5	1468.0	1199.9	1355.3	1745.1	2229.3	1973.5	1474.0	1449.7
10963.9	77.5°	8043.3	3243.5	971.5	877.1	944.1	1376.6	1873.0	1763.4	1495.4	1196.9
3118.6	80°	2616.1	1196.9	612.2	596.9	627.4	916.7	1449.7	1446.6	1132.9	813.2
755.3	82.5°	834.5	514.7	399.0	383.7	368.5	575.6	1011.1	1145.1	764.4	514.7
271.1	85°	332.0	307.6	234.5	216.2	155.3	271.1	529.9	761.4	569.5	371.6
70.0	87.5°	121.8	121.8	64.0	45.7	33.5	91.4	143.1	228.4	325.9	191.9
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>
8296.0
8938.7
9246.3
9185.3
8722.4
7970.2
7211.8
6645.4
6313.4
6182.4
6106.3
6030.2
5783.5
5220.1
4534.8
3898.3
3392.7
3048.6
3039.4
3012.0
2808.0
2451.7
2247.6
2162.3
2092.3
1940.0
1836.5
1717.7
1586.7
1434.4
1367.4
1065.9
718.7
511.7
380.7
188.8
0.0

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