

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: P943755

Luminaire Tested: **GALN-SB8B-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943755
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-SB8B-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43155 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

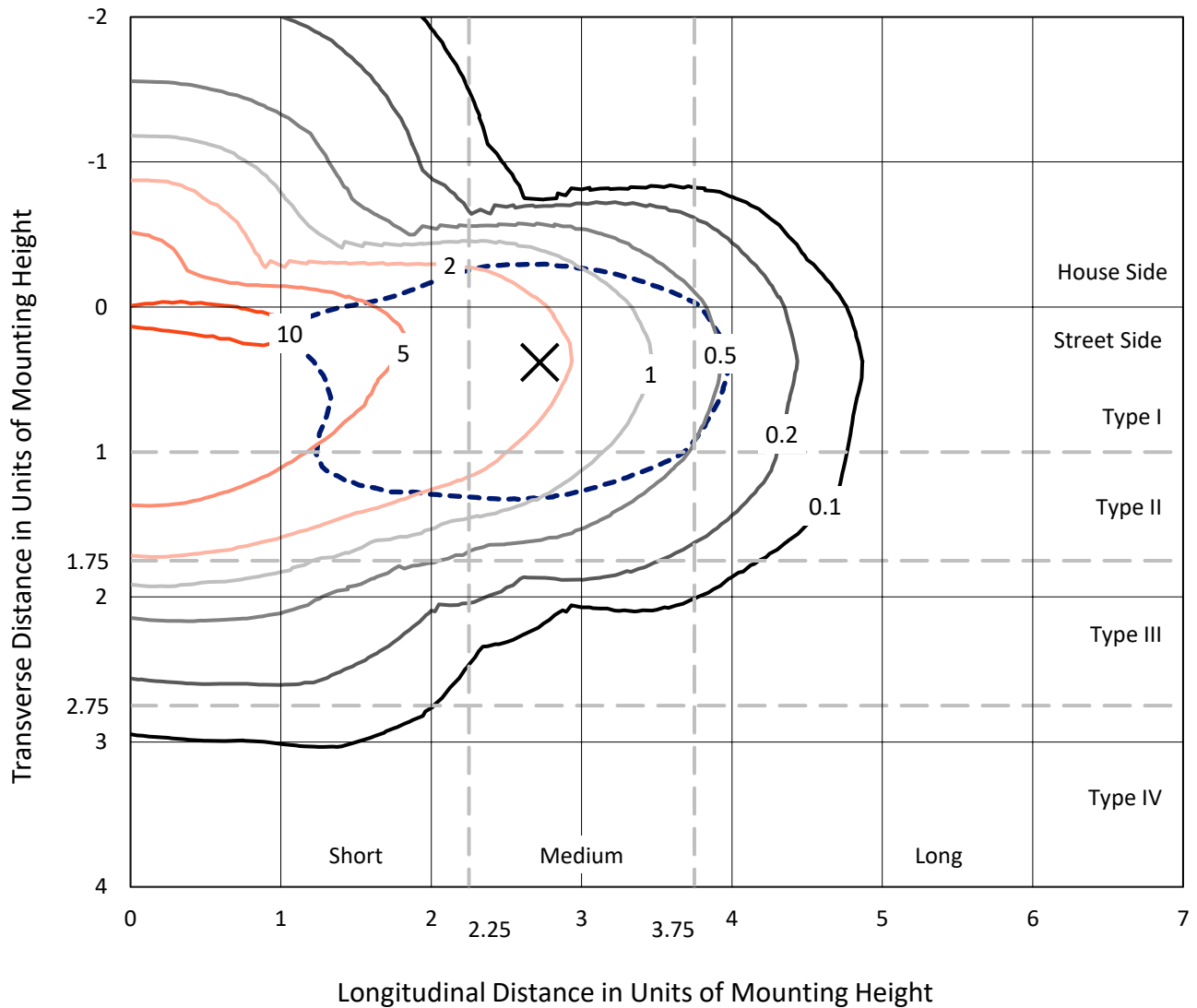
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

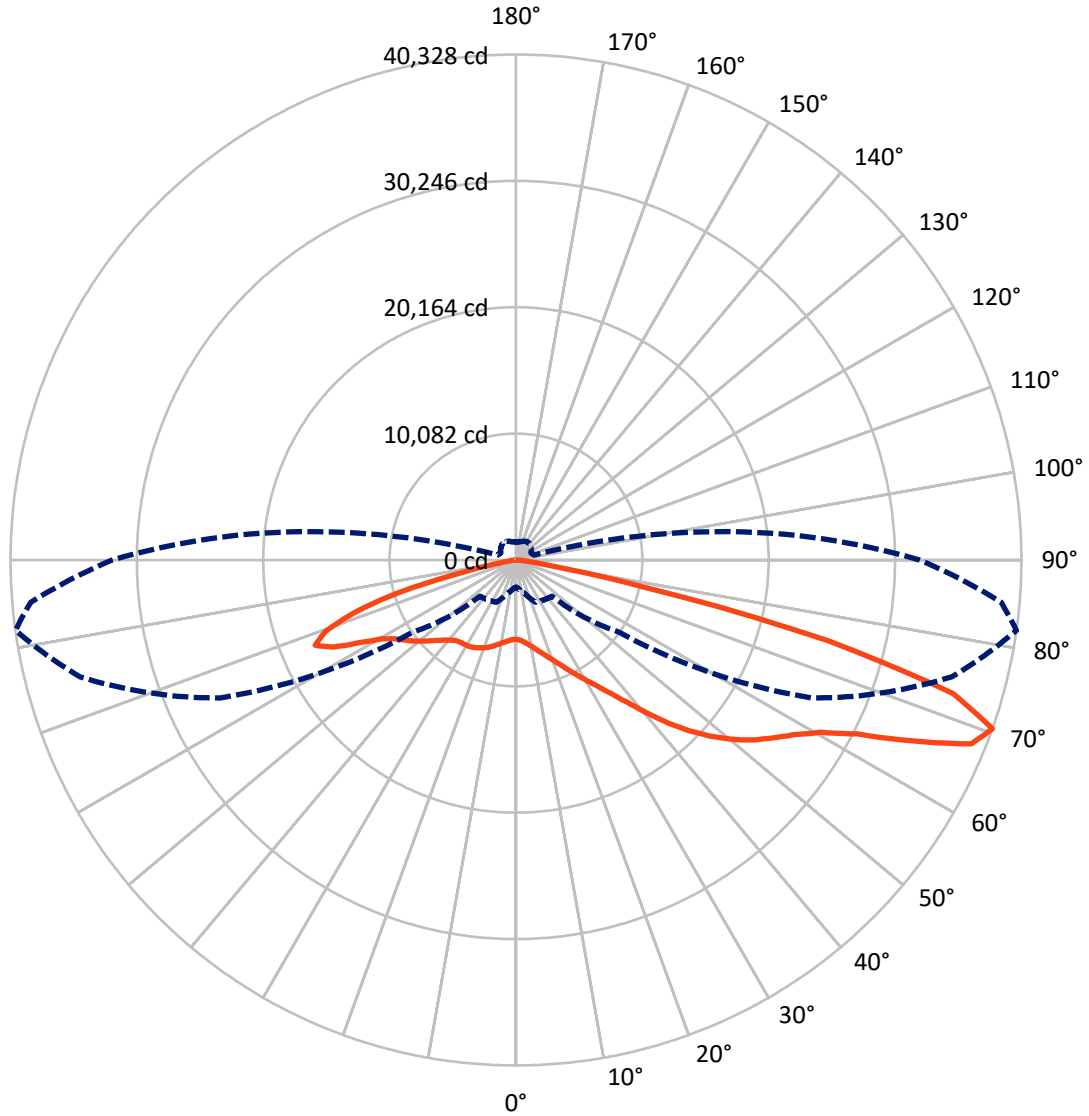
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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
House Side	Lumens	10638.8	0.0	10638.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	32516.2	0.0	32516.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	43155.0	0.0	43155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.4	1.4
10°-20°	1716.3	4.0
20°-30°	2871.2	6.7
30°-40°	4485.6	10.4
40°-50°	7143.9	16.6
50°-60°	9941.6	23.0
60°-70°	10399.3	24.1
70°-80°	5435.3	12.6
80°-90°	564.4	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°	43155.0	100.0
0°-180°	43155.0	100.0

Coefficient of Utilization



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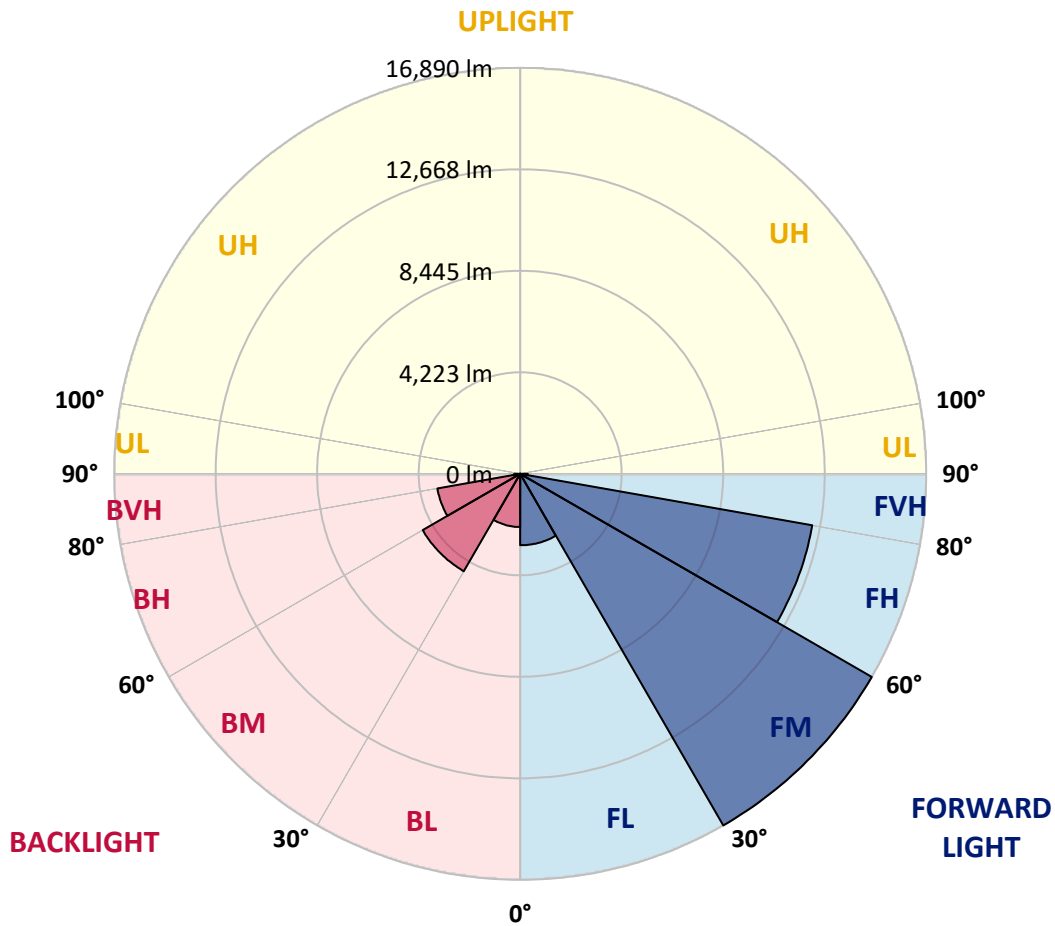
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2971.7	6.9			
FM (30°-60°)	16890.4	39.1			
FH (60°-80°)	12338.1	28.6			G5
FVH (80°-90°)	315.9	0.7			G3/500
BL (0°-30°)	2213.2	5.1	B3/2500		
BM (30°-60°)	4680.6	10.8	B3/5000		
BH (60°-80°)	3496.4	8.1	B4/5000		G4/5000
BVH (80°-90°)	248.4	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1
2.5°	6478.2	6514.8	6503.4	6491.9	6491.9	6475.9	6473.6	6450.7	6432.4	6402.6
5°	6560.6	6599.6	6595.0	6604.1	6633.9	6640.8	6647.7	6633.9	6597.3	6560.6
7.5°	6487.4	6530.9	6544.6	6599.6	6691.2	6773.6	6835.4	6860.6	6826.3	6773.6
10°	6240.0	6288.1	6336.2	6466.7	6629.3	6824.0	6988.9	7087.3	7080.4	7030.1
12.5°	5738.6	5788.9	5892.0	6146.2	6443.8	6787.3	7094.2	7300.3	7371.3	7334.6
15°	5337.8	5381.3	5459.2	5720.2	6107.2	6629.3	7133.1	7533.9	7714.8	7694.1
17.5°	5326.4	5344.7	5392.8	5516.4	5814.1	6382.0	7091.9	7762.8	8108.6	8106.3
20°	5527.9	5534.7	5562.2	5587.4	5756.9	6194.2	6986.6	7952.9	8550.6	8550.6
22.5°	5807.2	5802.7	5830.1	5807.2	5889.7	6178.2	6920.2	8120.1	9042.9	9079.6
25°	6226.3	6203.4	6196.5	6143.9	6159.9	6327.1	6993.4	8310.1	9626.8	9702.4
27.5°	6785.0	6748.4	6723.2	6601.9	6560.6	6633.9	7217.8	8539.1	10277.2	10407.7
30°	7513.2	7446.8	7410.2	7199.5	7050.7	7062.1	7556.8	8843.7	10957.3	11168.0
32.5°	8507.1	8404.0	8305.6	7959.8	7687.3	7598.0	7994.1	9265.0	11694.6	12031.3
35°	9620.0	9537.5	9432.2	8898.6	8479.6	8273.5	8584.9	9853.5	12557.9	13091.5
37.5°	10691.7	10620.7	10671.1	9952.0	9411.6	9111.6	9358.9	10643.6	13622.8	14410.5
40°	11800.0	11745.0	11751.9	11064.9	10435.2	10098.6	10297.8	11635.1	14843.3	15979.1
42.5°	13004.5	12963.3	12825.9	12216.7	11509.2	11195.4	11378.6	12780.1	16153.1	17765.2
45°	14353.2	14328.1	14199.8	13501.4	12690.8	12338.1	12585.4	14044.1	17469.8	19446.0
47.5°	15518.8	15539.4	15523.4	14934.9	14094.5	13577.0	13872.4	15363.1	18694.9	21026.1
50°	16079.9	16187.5	16345.5	16162.3	15640.2	15113.5	15170.8	16636.3	19862.8	22507.7
52.5°	15786.7	15990.5	16421.1	16714.2	16915.7	16805.8	16652.3	17900.3	20962.0	23845.0
55°	14694.4	14980.7	15695.1	16402.7	17430.9	18230.1	18431.6	19301.8	22033.7	25022.0
57.5°	12704.5	13169.4	13810.5	15241.7	16972.9	18919.4	20506.3	21245.9	23169.5	26279.2
60°	9292.5	9915.4	10712.3	12841.9	15370.0	18550.7	22271.8	24232.0	24783.9	27907.3
62.5°	5946.9	6331.6	7064.4	9070.4	11976.3	16661.5	22812.2	27964.6	27520.3	30577.4
65°	4071.5	4318.8	4989.7	6116.4	7742.2	12402.2	21365.0	30762.9	31866.6	34809.1
67.5°	2958.6	3146.4	3718.8	4705.8	5044.7	7339.2	16579.1	30634.6	36091.5	39169.2
70°	2157.1	2289.9	2770.8	3718.8	3881.4	4082.9	10043.6	26041.0	35999.9	40327.9
72.5°	1598.4	1690.0	2012.8	2885.3	3141.8	2757.1	4971.4	18926.2	30934.6	36476.2
75°	1156.4	1225.1	1463.3	2207.5	2514.3	2099.9	2480.0	11060.3	21578.0	25658.6
77.5°	883.9	936.6	1092.3	1616.7	2012.8	1575.5	1538.8	5088.2	10231.4	10281.8
80°	709.9	744.2	829.0	1138.1	1543.4	1179.3	1003.0	2054.1	3233.4	2736.5
82.5°	522.1	579.4	700.7	799.2	1103.7	812.9	611.4	1037.3	1229.7	1057.9
85°	297.7	336.6	423.6	572.5	705.3	496.9	350.4	460.3	572.5	469.4
87.5°	105.3	137.4	148.8	224.4	306.8	206.1	135.1	132.8	187.8	139.7
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°
6327.1	0°	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1	6327.1
6395.8	2.5°	6372.9	6361.4	6315.6	6253.8	6189.7	6127.8	6107.2	6063.7	6034.0	6017.9
6544.6	5°	6501.1	6464.5	6356.8	6219.4	6075.2	5919.5	5809.5	5708.8	5635.5	5566.8
6748.4	7.5°	6684.3	6620.2	6434.7	6194.2	5937.8	5679.0	5486.7	5340.1	5241.6	5177.5
6986.6	10°	6897.3	6798.8	6514.8	6155.3	5759.2	5388.2	5161.5	5035.5	4973.7	4939.4
7259.1	12.5°	7142.3	7002.6	6597.3	6066.0	5486.7	5063.0	4907.3	4870.7	4873.0	4875.3
7602.6	15°	7444.5	7249.9	6663.7	5871.4	5131.7	4813.4	4785.9	4845.5	4907.3	4937.1
7991.8	17.5°	7785.7	7511.0	6675.1	5550.8	4783.7	4653.1	4740.1	4868.4	4962.3	5003.5
8426.9	20°	8152.1	7776.6	6592.7	5097.4	4497.4	4522.6	4678.3	4843.2	4946.2	4998.9
8923.8	22.5°	8571.2	8060.5	6395.8	4621.1	4263.8	4380.6	4563.8	4724.1	4831.7	4884.4
9507.8	25°	9049.8	8378.8	6086.6	4220.3	4062.3	4220.3	4403.5	4536.3	4623.4	4671.4
10160.4	27.5°	9581.0	8710.9	5674.4	3902.0	3886.0	4055.5	4206.6	4309.6	4355.4	4392.1
10854.2	30°	10114.6	9013.1	5175.2	3661.6	3732.6	3892.9	4000.5	4046.3	4060.0	4066.9
11628.2	32.5°	10691.7	9274.2	4650.8	3462.4	3586.0	3734.9	3799.0	3819.6	3755.5	3712.0
12567.1	35°	11390.1	9553.6	4137.9	3304.4	3441.8	3570.0	3590.6	3572.3	3496.7	3407.4
13744.1	37.5°	12253.4	9901.6	3728.0	3192.2	3306.7	3391.4	3366.2	3361.6	3368.5	3263.1
15159.3	40°	13311.3	10355.0	3428.0	3105.1	3196.7	3215.1	3144.1	3183.0	3217.3	3057.0
16711.9	42.5°	14486.1	10902.3	3238.0	3045.6	3105.1	3061.6	2951.7	2995.2	2990.6	2780.0
18271.3	45°	15683.7	11497.7	3171.5	3002.1	3020.4	2933.4	2812.0	2823.5	2727.3	2537.2
19766.6	47.5°	16874.5	12136.6	3212.8	2965.5	2915.1	2816.6	2722.7	2672.3	2530.4	2388.4
21200.1	50°	18042.3	12807.6	3363.9	2892.2	2770.8	2713.6	2644.9	2555.6	2404.4	2283.1
22555.8	52.5°	19125.5	13483.1	3533.4	2770.8	2589.9	2624.3	2580.7	2477.7	2328.9	2205.2
23838.1	55°	20151.3	14158.6	3599.8	2603.6	2420.5	2546.4	2521.2	2331.1	2152.5	2051.8
25180.0	57.5°	21268.8	14971.5	3526.5	2390.7	2283.1	2457.1	2360.9	2150.2	2047.2	1971.6
26927.2	60°	22816.8	16247.0	3368.5	2127.3	2152.5	2324.3	2159.4	2072.4	1960.2	1875.4
29546.9	62.5°	25388.4	18626.2	3114.3	1866.3	1999.1	2127.3	2063.2	1976.2	1861.7	1779.3
34026.0	65°	29189.7	21932.9	2635.7	1662.5	1827.4	1935.0	1960.2	1873.2	1754.1	1667.1
37950.9	67.5°	32395.6	24007.6	1994.5	1493.0	1651.0	1779.3	1850.3	1765.5	1639.6	1554.9
38869.2	70°	32219.2	22500.8	1522.8	1325.9	1495.3	1625.8	1717.4	1651.0	1515.9	1435.8
35306.1	72.5°	28617.2	18823.2	1232.0	1156.4	1337.3	1465.6	1575.5	1525.1	1387.7	1309.8
25864.7	75°	21023.8	13361.7	984.7	984.7	1140.4	1298.4	1419.8	1387.7	1261.7	1206.8
10858.8	77.5°	8862.0	5605.7	771.7	817.5	948.0	1115.2	1266.3	1277.8	1167.9	1236.6
2871.6	80°	2356.3	1545.7	588.5	643.5	744.2	920.5	1101.5	1096.9	977.8	913.7
1067.1	82.5°	897.7	609.1	419.1	453.4	538.1	705.3	872.5	899.9	780.9	675.5
419.1	85°	345.8	261.1	258.8	272.5	313.7	467.1	659.5	682.4	588.5	499.2
116.8	87.5°	89.3	77.9	96.2	91.6	144.3	249.6	377.8	391.6	359.5	208.4
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>
6327.1
6036.2
5594.3
5191.3
4948.5
4879.8
4934.8
5012.6
5012.6
4898.1
4685.2
4405.8
4082.9
3725.7
3412.0
3270.0
3061.6
2777.7
2544.1
2388.4
2273.9
2207.5
2042.6
1964.8
1870.9
1779.3
1671.6
1557.1
1442.7
1309.8
1190.8
1122.1
849.6
675.5
515.2
297.7
0.0

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