

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: P944135

Luminaire Tested: **GALN-SB8D-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944135
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-SB8D-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59081 lumens
Efficiency: N/A
Efficacy: 101.0 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

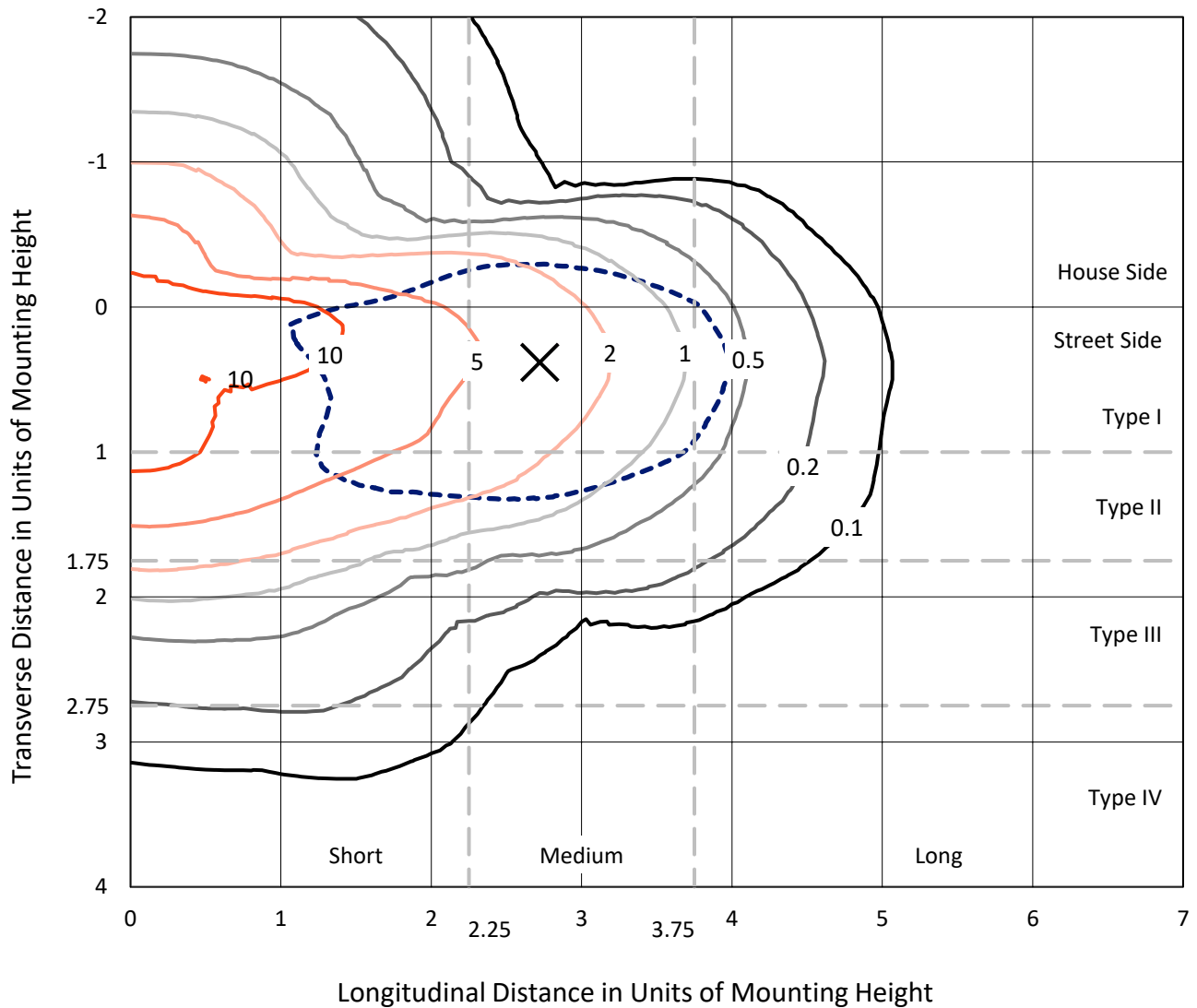
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944135
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Iso-Footcandle Lines of Horizontal Illumination

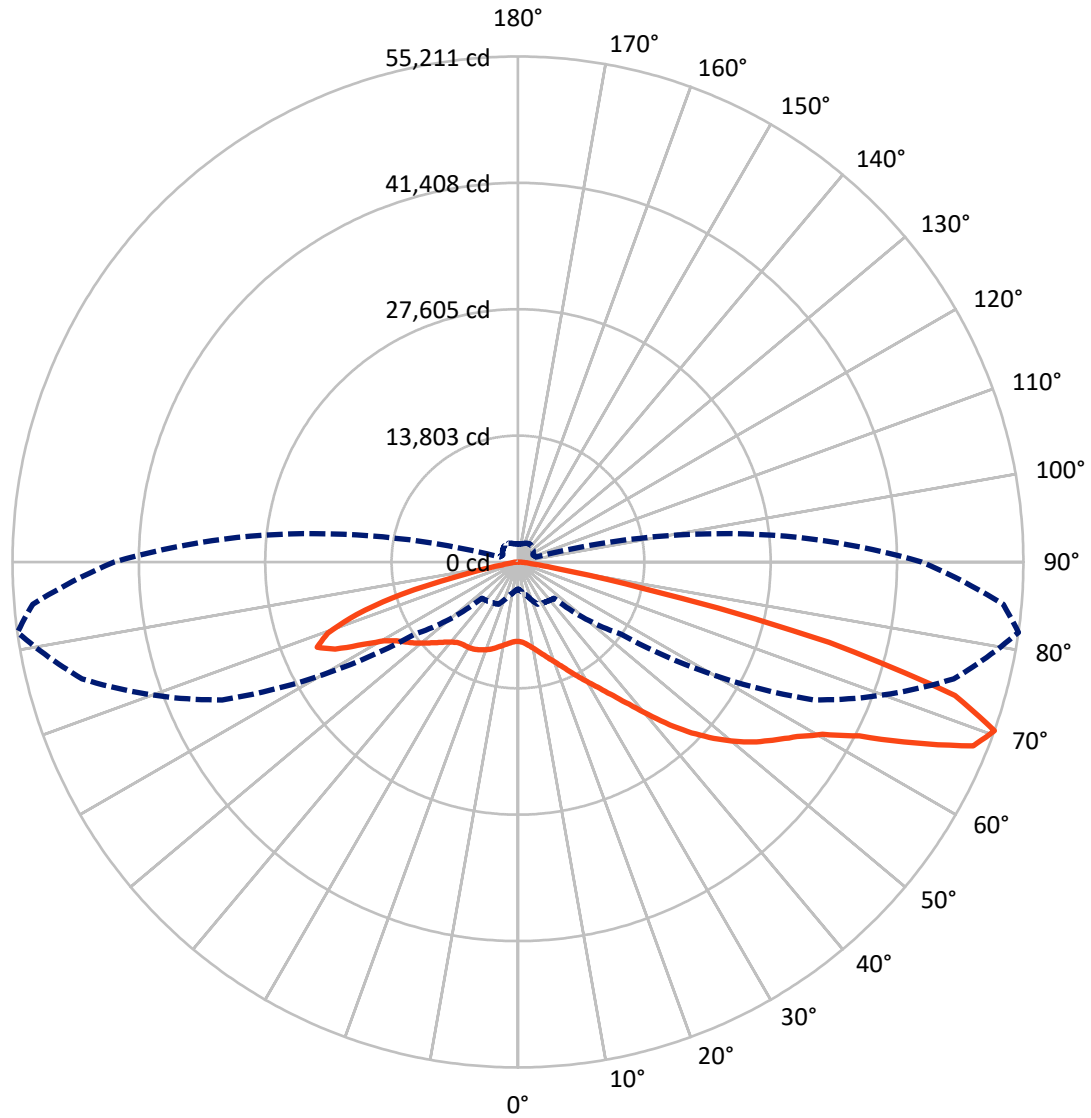
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type 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	14564.9	0.0	14564.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	44516.1	0.0	44516.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	59081.0	0.0	59081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.8	1.4
10°-20°	2349.7	4.0
20°-30°	3930.9	6.7
30°-40°	6141.0	10.4
40°-50°	9780.3	16.6
50°-60°	13610.4	23.0
60°-70°	14237.1	24.1
70°-80°	7441.1	12.6
80°-90°	772.7	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°	59081.0	100.0
0°-180°	59081.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944135

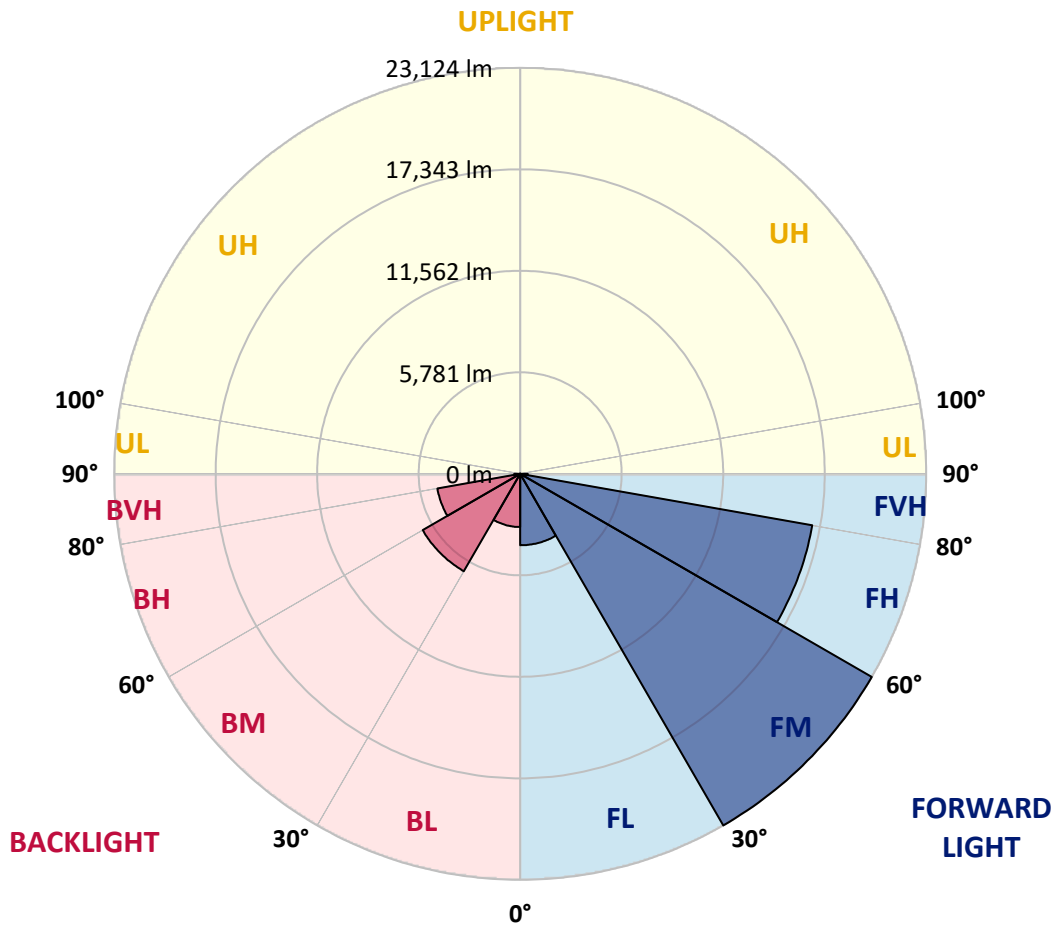
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4068.4	6.9			
FM (30°-60°)	23123.7	39.1			
FH (60°-80°)	16891.4	28.6			G5
FVH (80°-90°)	432.6	0.7			G3/500
BL (0°-30°)	3030.0	5.1	B4/5000		
BM (30°-60°)	6408.0	10.8	B4/8500		
BH (60°-80°)	4786.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	340.1	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



REPORT NUMBER: P944135
 CATALOG NUMBER: GALN-SB8D-940-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0
2.5°	8868.9	8919.1	8903.4	8887.7	8887.7	8865.8	8862.7	8831.3	8806.2	8765.5
5°	8981.8	9035.1	9028.8	9041.3	9082.1	9091.5	9100.9	9082.1	9031.9	8981.8
7.5°	8881.5	8941.0	8959.8	9035.1	9160.5	9273.3	9358.0	9392.5	9345.4	9273.3
10°	8542.9	8608.7	8674.6	8853.2	9075.8	9342.3	9568.0	9702.8	9693.4	9624.5
12.5°	7856.3	7925.3	8066.4	8414.3	8821.9	9292.1	9712.2	9994.4	10091.6	10041.4
15°	7307.7	7367.3	7473.8	7831.2	8361.1	9075.8	9765.5	10314.2	10561.8	10533.6
17.5°	7292.0	7317.1	7382.9	7552.2	7959.8	8737.3	9709.1	10627.7	11101.0	11097.9
20°	7567.9	7577.3	7614.9	7649.4	7881.4	8480.2	9564.9	10887.9	11706.1	11706.1
22.5°	7950.4	7944.1	7981.7	7950.4	8063.2	8458.2	9474.0	11116.7	12380.1	12430.3
25°	8524.1	8492.7	8483.3	8411.2	8433.2	8662.0	9574.3	11376.9	13179.6	13283.0
27.5°	9289.0	9238.9	9204.4	9038.2	8981.8	9082.1	9881.5	11690.4	14069.9	14248.6
30°	10285.9	10195.0	10144.9	9856.4	9652.7	9668.3	10345.5	12107.4	15001.0	15289.4
32.5°	11646.5	11505.5	11370.7	10897.3	10524.2	10401.9	10944.3	12684.2	16010.5	16471.3
35°	13170.1	13057.3	12913.1	12182.6	11608.9	11326.8	11753.1	13489.9	17192.4	17922.8
37.5°	14637.3	14540.1	14609.1	13624.7	12884.9	12474.2	12812.8	14571.5	18650.1	19728.6
40°	16154.7	16079.4	16088.8	15148.3	14286.2	13825.4	14098.1	15929.0	20321.1	21876.1
42.5°	17803.7	17747.3	17559.2	16725.2	15756.5	15327.0	15577.8	17496.5	22114.3	24321.4
45°	19650.2	19615.7	19440.2	18484.0	17374.2	16891.4	17230.0	19227.0	23916.9	26622.4
47.5°	21245.9	21274.1	21252.2	20446.5	19295.9	18587.4	18991.8	21032.7	25594.2	28785.6
50°	22014.0	22161.3	22377.7	22126.9	21412.1	20691.0	20769.4	22775.8	27193.0	30813.9
52.5°	21612.7	21891.7	22481.1	22882.4	23158.3	23007.8	22797.7	24506.3	28697.8	32644.8
55°	20117.3	20509.2	21487.3	22456.0	23863.6	24957.8	25233.6	26424.9	30165.0	34256.2
57.5°	17393.0	18029.4	18907.2	20866.6	23236.6	25901.4	28074.0	29086.6	31720.0	35977.3
60°	12721.8	13574.6	14665.5	17581.1	21042.1	25396.7	30491.0	33174.6	33930.1	38206.3
62.5°	8141.6	8668.3	9671.5	12417.7	16396.1	22810.3	31230.9	38284.7	37676.5	41861.7
65°	5574.0	5912.6	6831.2	8373.6	10599.4	16979.2	29249.6	42115.6	43626.7	47655.2
67.5°	4050.4	4307.5	5091.2	6442.4	6906.4	10047.7	22697.4	41940.1	49410.8	53624.2
70°	2953.2	3135.0	3793.4	5091.2	5313.8	5589.7	13750.1	35651.3	49285.4	55210.5
72.5°	2188.2	2313.6	2755.7	3950.1	4301.2	3774.5	6806.1	25910.8	42350.8	49937.5
75°	1583.2	1677.2	2003.3	3022.1	3442.2	2874.8	3395.2	15142.1	29541.1	35127.7
77.5°	1210.1	1282.2	1495.4	2213.3	2755.7	2156.9	2106.7	6966.0	14007.2	14076.2
80°	971.9	1018.9	1134.9	1558.1	2113.0	1614.5	1373.1	2812.1	4426.6	3746.3
82.5°	714.8	793.2	959.3	1094.1	1511.1	1112.9	837.0	1420.2	1683.5	1448.4
85°	407.6	460.8	580.0	783.8	965.6	680.3	479.7	630.1	783.8	642.7
87.5°	144.2	188.1	203.8	307.2	420.1	282.2	185.0	181.8	257.1	191.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944135
 CATALOG NUMBER: GALN-SB8D-940-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8662.0	0°	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0	8662.0
8756.1	2.5°	8724.7	8709.0	8646.3	8561.7	8473.9	8389.3	8361.1	8301.5	8260.7	8238.8
8959.8	5°	8900.3	8850.1	8702.8	8514.7	8317.2	8104.0	7953.5	7815.6	7715.2	7621.2
9238.9	7.5°	9151.1	9063.3	8809.4	8480.2	8129.1	7774.8	7511.5	7310.8	7176.0	7088.2
9564.9	10°	9442.6	9307.8	8919.1	8426.9	7884.5	7376.7	7066.3	6893.9	6809.2	6762.2
9938.0	12.5°	9778.1	9586.8	9031.9	8304.6	7511.5	6931.5	6718.3	6668.2	6671.3	6674.4
10408.2	15°	10191.9	9925.4	9122.9	8038.1	7025.5	6589.8	6552.2	6633.7	6718.3	6759.1
10941.2	17.5°	10659.0	10282.8	9138.5	7599.2	6549.0	6370.3	6489.5	6665.0	6793.6	6850.0
11536.8	20°	11160.6	10646.5	9025.7	6978.5	6157.1	6191.6	6404.8	6630.5	6771.6	6843.7
12217.1	22.5°	11734.3	11035.2	8756.1	6326.4	5837.4	5997.3	6248.1	6467.5	6614.9	6687.0
13016.5	25°	12389.5	11471.0	8332.8	5777.8	5561.5	5777.8	6028.6	6210.4	6329.6	6395.4
13910.0	27.5°	13116.9	11925.6	7768.5	5342.0	5320.1	5552.1	5759.0	5900.1	5962.8	6012.9
14859.9	30°	13847.3	12339.4	7085.1	5012.9	5110.1	5329.5	5476.9	5539.6	5558.4	5567.8
15919.5	32.5°	14637.3	12696.8	6367.2	4740.1	4909.4	5113.2	5201.0	5229.2	5141.4	5081.8
17204.9	35°	15593.5	13079.2	5665.0	4523.8	4711.9	4887.5	4915.7	4890.6	4787.1	4664.9
18816.3	37.5°	16775.4	13555.8	5103.8	4370.2	4526.9	4642.9	4608.5	4602.2	4611.6	4467.4
20753.7	40°	18223.8	14176.5	4693.1	4251.1	4376.5	4401.5	4304.4	4357.7	4404.7	4185.2
22879.3	42.5°	19832.0	14925.7	4432.9	4169.6	4251.1	4191.5	4041.0	4100.6	4094.3	3805.9
25014.2	45°	21471.6	15740.9	4342.0	4110.0	4135.1	4015.9	3849.8	3865.5	3733.8	3473.6
27061.3	47.5°	23101.8	16615.5	4398.4	4059.8	3990.9	3856.1	3727.5	3658.5	3464.2	3269.8
29023.9	50°	24700.7	17534.1	4605.3	3959.5	3793.4	3715.0	3620.9	3498.7	3291.8	3125.6
30879.8	52.5°	26183.5	18458.9	4837.3	3793.4	3545.7	3592.7	3533.1	3392.1	3188.3	3019.0
32635.4	55°	27588.0	19383.7	4928.2	3564.5	3313.7	3486.1	3451.6	3191.4	2946.9	2809.0
34472.5	57.5°	29117.9	20496.6	4827.9	3272.9	3125.6	3363.9	3232.2	2943.8	2802.7	2699.2
36864.5	60°	31237.2	22242.8	4611.6	2912.4	2946.9	3182.0	2956.3	2837.2	2683.6	2567.6
40450.9	62.5°	34757.8	25500.1	4263.6	2555.0	2736.9	2912.4	2824.6	2705.5	2548.8	2435.9
46583.0	65°	39961.9	30027.1	3608.4	2276.0	2501.7	2649.1	2683.6	2564.4	2401.4	2282.3
51956.4	67.5°	44350.9	32867.4	2730.6	2044.0	2260.3	2435.9	2533.1	2417.1	2244.7	2128.7
53213.5	70°	44109.5	30804.5	2084.8	1815.2	2047.2	2225.9	2351.3	2260.3	2075.4	1965.6
48335.5	72.5°	39178.1	25769.7	1686.6	1583.2	1830.8	2006.4	2156.9	2087.9	1899.8	1793.2
35409.9	75°	28782.5	18292.7	1348.1	1348.1	1561.2	1777.5	1943.7	1899.8	1727.4	1652.1
14866.2	77.5°	12132.5	7674.5	1056.5	1119.2	1297.9	1526.7	1733.7	1749.3	1598.9	1692.9
3931.3	80°	3225.9	2116.1	805.7	880.9	1018.9	1260.3	1507.9	1501.7	1338.6	1250.9
1460.9	82.5°	1228.9	833.9	573.7	620.7	736.7	965.6	1194.4	1232.1	1069.0	924.8
573.7	85°	473.4	357.4	354.3	373.1	429.5	639.5	902.9	934.2	805.7	683.4
159.9	87.5°	122.3	106.6	131.7	125.4	197.5	341.7	517.3	536.1	492.2	285.3
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>
8662.0
8263.9
7658.8
7107.1
6774.7
6680.7
6755.9
6862.5
6862.5
6705.8
6414.2
6031.7
5589.7
5100.6
4671.2
4476.8
4191.5
3802.8
3483.0
3269.8
3113.1
3022.1
2796.4
2689.8
2561.3
2435.9
2288.6
2131.8
1975.1
1793.2
1630.2
1536.2
1163.1
924.8
705.4
407.6
0.0

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