

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: P942545

Luminaire Tested: **GALN-SB6C-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942545
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-SB6C-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41738 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

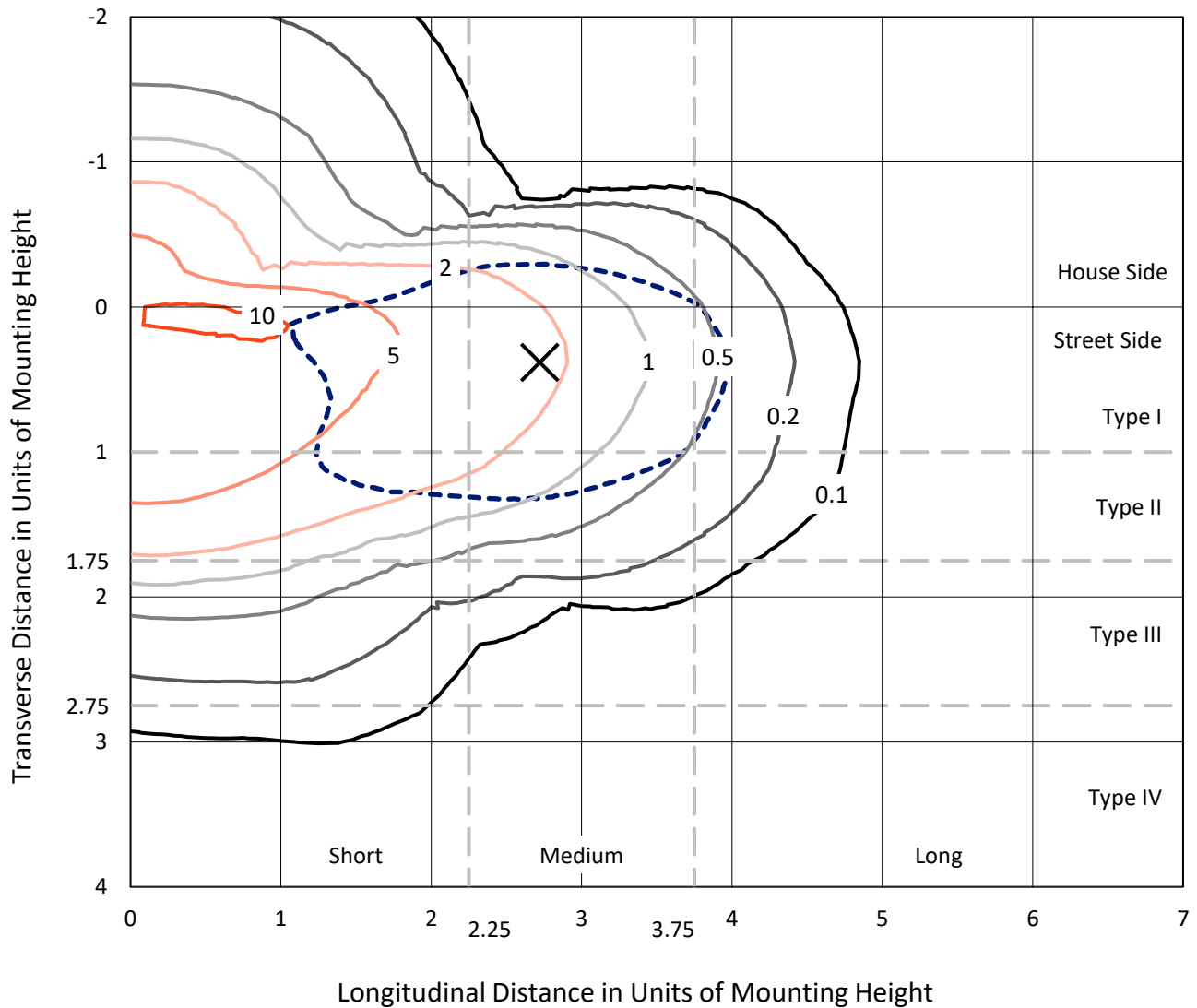
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

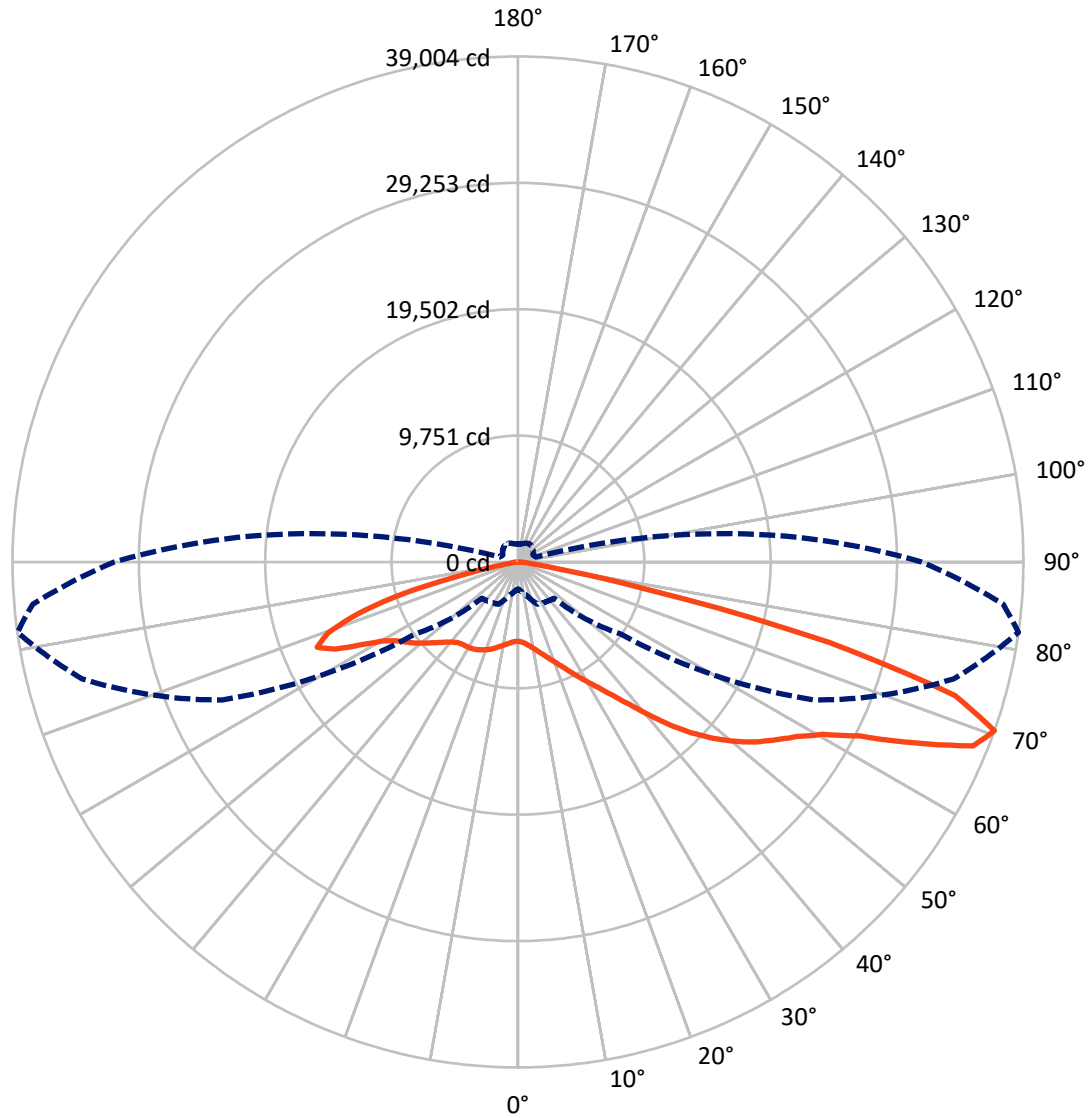
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	10289.4	0.0	10289.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	31448.6	0.0	31448.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	41738.0	0.0	41738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.8	1.4
10°-20°	1660.0	4.0
20°-30°	2777.0	6.7
30°-40°	4338.3	10.4
40°-50°	6909.3	16.6
50°-60°	9615.1	23.0
60°-70°	10057.9	24.1
70°-80°	5256.8	12.6
80°-90°	545.9	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°	41738.0	100.0
0°-180°	41738.0	100.0

Coefficient of Utilization



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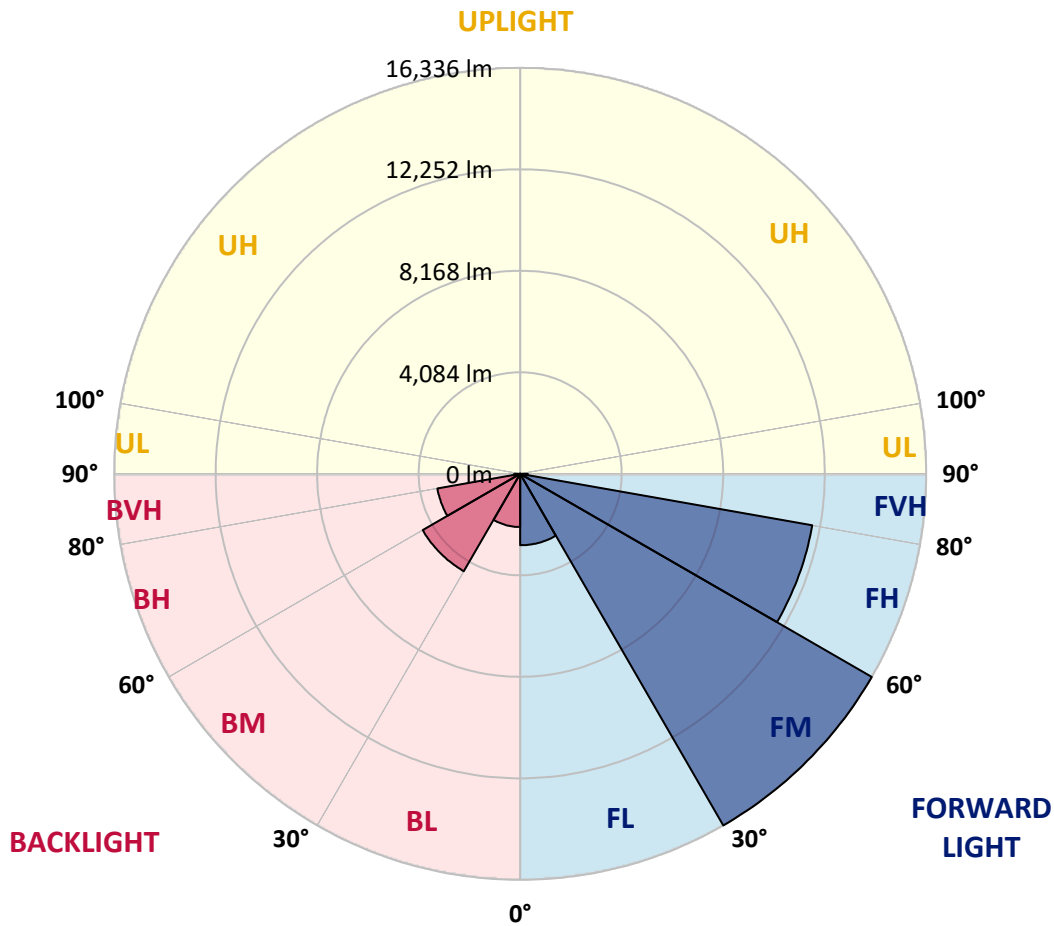
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2874.1	6.9			
FM (30°-60°)	16335.8	39.1			
FH (60°-80°)	11933.0	28.6			G4/12000
FVH (80°-90°)	305.6	0.7			G3/500
BL (0°-30°)	2140.6	5.1	B3/2500		
BM (30°-60°)	4526.9	10.8	B3/5000		
BH (60°-80°)	3381.6	8.1	B4/5000		G4/5000
BVH (80°-90°)	240.3	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3
2.5°	6265.5	6300.9	6289.8	6278.8	6278.8	6263.3	6261.1	6238.9	6221.2	6192.4
5°	6345.2	6382.9	6378.4	6387.3	6416.1	6422.7	6429.4	6416.1	6380.7	6345.2
7.5°	6274.3	6316.4	6329.7	6382.9	6471.5	6551.2	6611.0	6635.3	6602.1	6551.2
10°	6035.2	6081.7	6128.2	6254.4	6411.7	6599.9	6759.4	6854.6	6848.0	6799.2
12.5°	5550.1	5598.8	5698.5	5944.3	6232.3	6564.5	6861.2	7060.6	7129.2	7093.8
15°	5162.5	5204.6	5279.9	5532.4	5906.7	6411.7	6898.9	7286.5	7461.4	7441.5
17.5°	5151.5	5169.2	5215.7	5335.3	5623.2	6172.5	6859.0	7508.0	7842.4	7840.2
20°	5346.4	5353.0	5379.6	5404.0	5567.8	5990.9	6757.2	7691.8	8269.8	8269.8
22.5°	5616.6	5612.1	5638.7	5616.6	5696.3	5975.4	6692.9	7853.5	8746.0	8781.4
25°	6021.9	5999.7	5993.1	5942.1	5957.6	6119.3	6763.8	8037.3	9310.7	9383.8
27.5°	6562.3	6526.8	6502.5	6385.1	6345.2	6416.1	6980.8	8258.7	9939.7	10066.0
30°	7266.5	7202.3	7166.9	6963.1	6819.2	6830.2	7308.6	8553.3	10597.5	10801.3
32.5°	8227.7	8128.1	8032.8	7698.4	7434.9	7348.5	7731.6	8960.8	11310.7	11636.2
35°	9304.1	9224.4	9122.5	8606.5	8201.2	8001.8	8303.0	9530.0	12145.6	12661.6
37.5°	10340.6	10271.9	10320.7	9625.2	9102.6	8812.4	9051.6	10294.1	13175.5	13937.3
40°	11412.5	11359.4	11366.0	10701.6	10092.5	9767.0	9959.7	11253.1	14355.9	15454.4
42.5°	12577.5	12537.6	12404.7	11815.6	11131.3	10827.8	11005.0	12360.4	15622.7	17181.9
45°	13882.0	13857.6	13733.6	13058.1	12274.1	11933.0	12172.2	13583.0	16896.2	18807.5
47.5°	15009.3	15029.2	15013.7	14444.5	13631.7	13131.2	13416.9	14858.7	18081.1	20335.7
50°	15551.9	15656.0	15808.8	15631.6	15126.6	14617.3	14672.6	16090.0	19210.6	21768.6
52.5°	15268.4	15465.5	15881.9	16165.4	16360.2	16253.9	16105.6	17312.6	20273.7	23062.0
55°	14212.0	14488.8	15179.8	15864.1	16858.6	17631.5	17826.4	18668.0	21310.2	24200.4
57.5°	12287.3	12736.9	13357.1	14741.3	16415.6	18298.1	19833.0	20548.3	22408.7	25416.3
60°	8987.4	9589.8	10360.5	12420.2	14865.3	17941.6	21540.5	23436.3	23970.1	26991.0
62.5°	5751.7	6123.7	6832.5	8772.6	11583.1	16114.4	22063.2	27046.3	26616.7	29573.4
65°	3937.8	4177.0	4825.9	5915.6	7488.0	11995.0	20663.5	29752.7	30820.3	33666.2
67.5°	2861.4	3043.0	3596.7	4551.3	4879.1	7098.2	16034.7	29628.7	34906.4	37883.0
70°	2086.3	2214.7	2679.8	3596.7	3754.0	3948.9	9713.8	25186.0	34817.8	39003.7
72.5°	1545.9	1634.5	1946.8	2790.6	3038.6	2666.5	4808.2	18304.8	29918.9	35278.5
75°	1118.4	1184.9	1415.2	2135.0	2431.8	2030.9	2398.6	10697.2	20869.4	24816.1
77.5°	854.9	905.8	1056.4	1563.6	1946.8	1523.7	1488.3	4921.1	9895.4	9944.2
80°	686.6	719.8	801.7	1100.7	1492.7	1140.6	970.1	1986.6	3127.2	2646.6
82.5°	505.0	560.3	677.7	772.9	1067.5	786.2	591.3	1003.3	1189.3	1023.2
85°	287.9	325.6	409.7	553.7	682.1	480.6	338.9	445.2	553.7	454.0
87.5°	101.9	132.9	144.0	217.0	296.8	199.3	130.7	128.5	181.6	135.1
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°
6119.3	0°	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3	6119.3
6185.8	2.5°	6163.6	6152.5	6108.2	6048.4	5986.4	5926.6	5906.7	5864.6	5835.8	5820.3
6329.7	5°	6287.6	6252.2	6148.1	6015.2	5875.7	5725.1	5618.8	5521.3	5450.5	5384.0
6526.8	7.5°	6464.8	6402.8	6223.4	5990.9	5742.8	5492.5	5306.5	5164.8	5069.5	5007.5
6757.2	10°	6670.8	6575.5	6300.9	5953.2	5570.1	5211.3	4992.0	4870.2	4810.4	4777.2
7020.7	12.5°	6907.8	6772.7	6380.7	5866.8	5306.5	4896.8	4746.2	4710.7	4713.0	4715.2
7352.9	15°	7200.1	7011.9	6444.9	5678.6	4963.2	4655.4	4628.8	4686.4	4746.2	4775.0
7729.4	17.5°	7530.1	7264.3	6456.0	5368.5	4626.6	4500.3	4584.5	4708.5	4799.3	4839.2
8150.2	20°	7884.5	7521.2	6376.2	4930.0	4349.7	4374.1	4524.7	4684.2	4783.8	4834.8
8630.8	22.5°	8289.8	7795.9	6185.8	4469.3	4123.8	4236.8	4414.0	4569.0	4673.1	4724.0
9195.6	25°	8752.6	8103.7	5886.8	4081.8	3928.9	4081.8	4258.9	4387.4	4471.5	4518.1
9826.8	27.5°	9266.5	8424.9	5488.1	3773.9	3758.4	3922.3	4068.5	4168.1	4212.4	4247.9
10497.8	30°	9782.5	8717.2	5005.3	3541.4	3610.0	3765.0	3869.1	3913.4	3926.7	3933.4
11246.4	32.5°	10340.6	8969.7	4498.1	3348.7	3468.3	3612.2	3674.2	3694.2	3632.2	3590.1
12154.5	35°	11016.1	9239.9	4002.0	3195.9	3328.7	3452.8	3472.7	3455.0	3381.9	3295.5
13292.8	37.5°	11851.0	9576.5	3605.6	3087.3	3198.1	3280.0	3255.7	3251.2	3257.9	3156.0
14661.5	40°	12874.3	10015.0	3315.5	3003.2	3091.8	3109.5	3040.8	3078.5	3111.7	2956.7
16163.1	42.5°	14010.4	10544.4	3131.6	2945.6	3003.2	2961.1	2854.8	2896.9	2892.4	2688.7
17671.4	45°	15168.7	11120.2	3067.4	2903.5	2921.2	2837.1	2719.7	2730.8	2637.7	2453.9
19117.6	47.5°	16320.4	11738.1	3107.3	2868.1	2819.4	2724.1	2633.3	2584.6	2447.3	2310.0
20504.0	50°	17449.9	12387.0	3253.4	2797.2	2679.8	2624.5	2558.0	2471.6	2325.5	2208.1
21815.1	52.5°	18497.5	13040.4	3417.3	2679.8	2504.9	2538.1	2496.0	2396.3	2252.4	2132.8
23055.4	55°	19489.7	13693.7	3481.6	2518.2	2341.0	2462.8	2438.4	2254.6	2081.9	1984.4
24353.2	57.5°	20570.5	14479.9	3410.7	2312.2	2208.1	2376.4	2283.4	2079.6	1980.0	1906.9
26043.1	60°	22067.6	15713.5	3257.9	2057.5	2081.9	2248.0	2088.5	2004.3	1895.8	1813.9
28576.7	62.5°	24554.8	18014.7	3012.0	1805.0	1933.5	2057.5	1995.5	1911.3	1800.6	1720.8
32908.7	65°	28231.2	21212.7	2549.2	1607.9	1767.4	1871.5	1895.8	1811.7	1696.5	1612.3
36704.8	67.5°	31331.9	23219.3	1929.0	1444.0	1596.8	1720.8	1789.5	1707.6	1585.8	1503.8
37592.9	70°	31161.3	21762.0	1472.8	1282.3	1446.2	1572.5	1661.1	1596.8	1466.2	1388.6
34146.8	72.5°	27677.5	18205.1	1191.5	1118.4	1293.4	1417.4	1523.7	1475.0	1342.1	1266.8
25015.4	75°	20333.5	12923.0	952.3	952.3	1102.9	1255.8	1373.1	1342.1	1220.3	1167.2
10502.3	77.5°	8571.0	5421.7	746.4	790.7	916.9	1078.6	1224.7	1235.8	1129.5	1196.0
2777.3	80°	2279.0	1494.9	569.2	622.3	719.8	890.3	1065.3	1060.9	945.7	883.7
1032.1	82.5°	868.2	589.1	405.3	438.5	520.5	682.1	843.8	870.4	755.2	653.3
405.3	85°	334.4	252.5	250.3	263.6	303.4	451.8	637.8	660.0	569.2	482.8
113.0	87.5°	86.4	75.3	93.0	88.6	139.5	241.4	365.4	378.7	347.7	201.5
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>
6119.3
5838.0
5410.6
5020.8
4786.0
4719.6
4772.8
4848.1
4848.1
4737.3
4531.3
4261.2
3948.9
3603.4
3300.0
3162.6
2961.1
2686.5
2460.6
2310.0
2199.2
2135.0
1975.5
1900.2
1809.4
1720.8
1616.8
1506.0
1395.3
1266.8
1151.7
1085.2
821.7
653.3
498.3
287.9
0.0

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