

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: P956911

Luminaire Tested: **GALN-SB9B-935-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-935-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35464 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

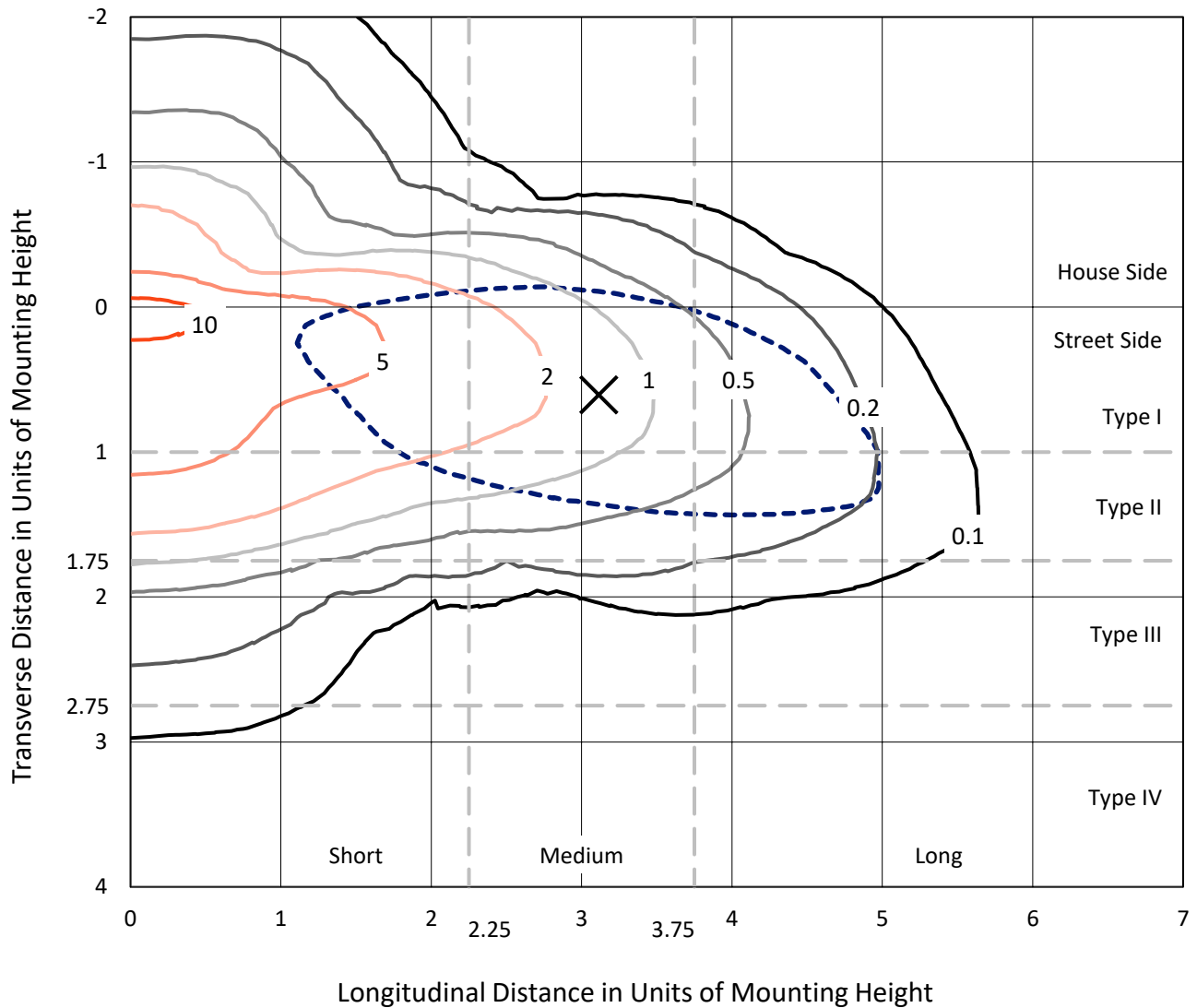
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

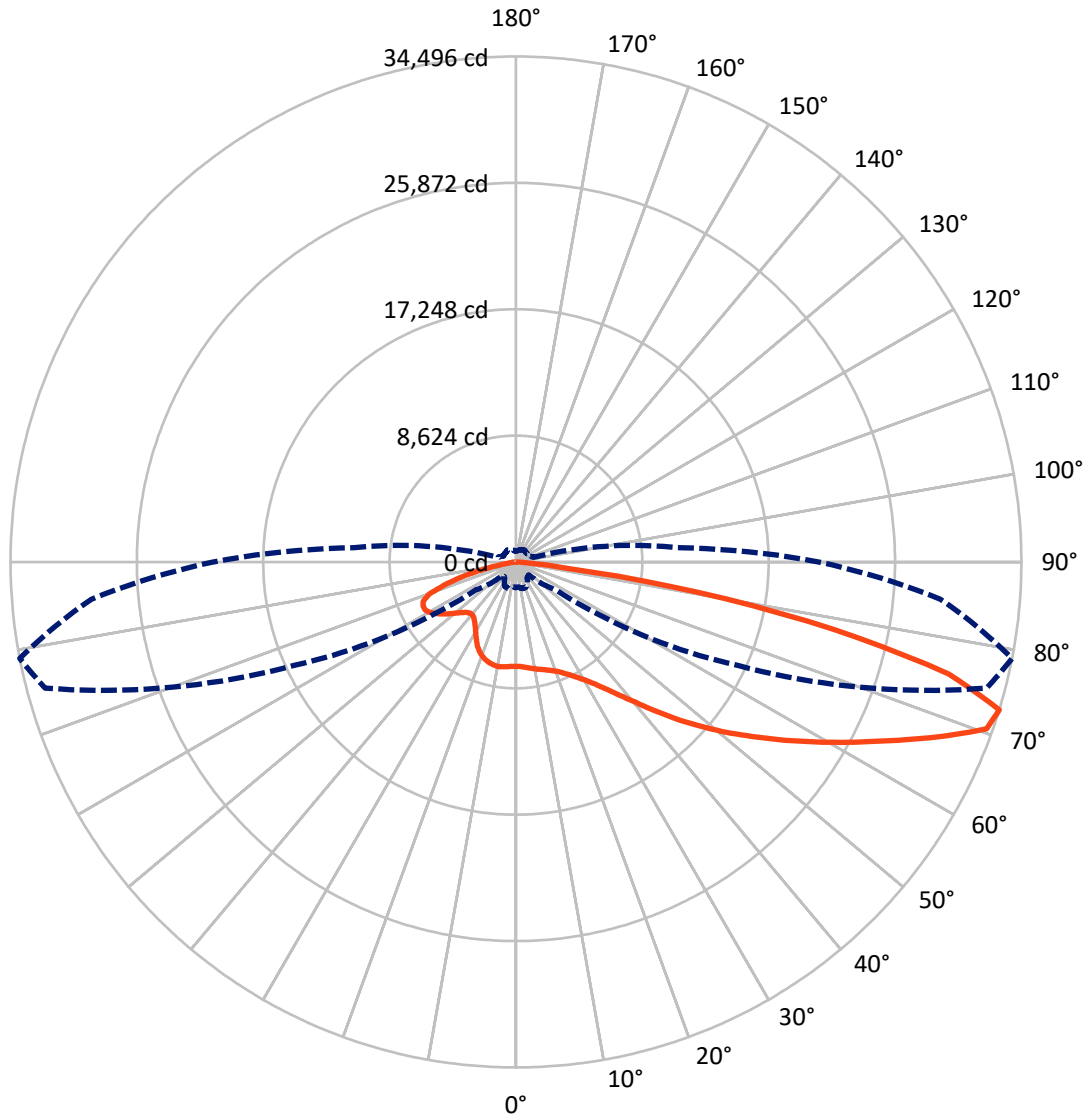
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7804.0	0.0	7804.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	27660.0	0.0	27660.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	35464.0	0.0	35464.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.2	1.8
10°-20°	1689.5	4.8
20°-30°	2726.2	7.7
30°-40°	4091.6	11.5
40°-50°	5804.2	16.4
50°-60°	7329.9	20.7
60°-70°	7444.5	21.0
70°-80°	5073.7	14.3
80°-90°	658.3	1.9
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°	35464.0	100.0
0°-180°	35464.0	100.0



REPORT NUMBER: P956911

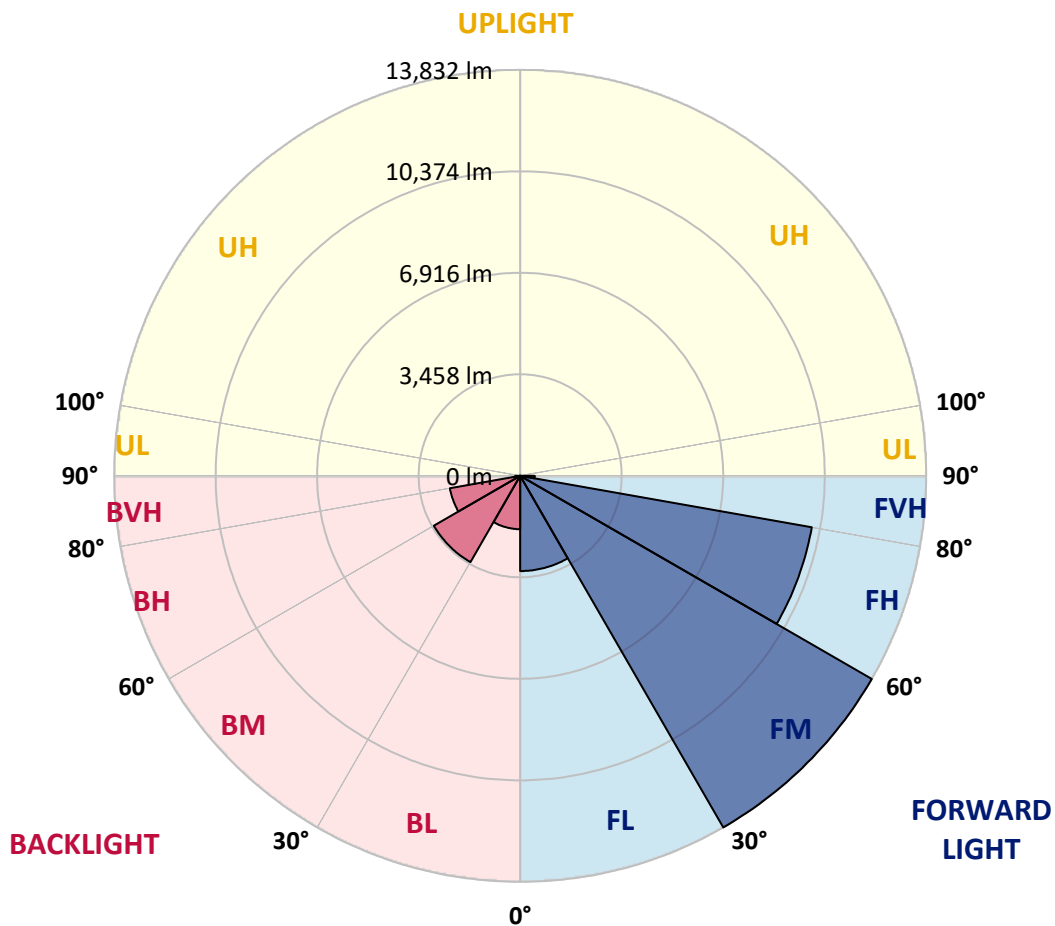
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3244.1	9.1			
FM (30°-60°)	13831.7	39.0			
FH (60°-80°)	10088.3	28.4			G4/12000
FVH (80°-90°)	495.9	1.4			G3/500
BL (0°-30°)	1817.8	5.1	B3/2500		
BM (30°-60°)	3393.9	9.6	B3/5000		
BH (60°-80°)	2429.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	162.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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 CATALOG NUMBER: GALN-SB9B-935-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1
2.5°	7122.8	7089.0	7109.7	7102.2	7111.6	7122.8	7126.6	7132.2	7151.0	7149.1
5°	7107.8	7074.0	7102.2	7092.8	7117.2	7143.4	7166.0	7186.6	7216.6	7229.7
7.5°	7075.9	7053.4	7081.5	7109.7	7154.7	7194.1	7226.0	7272.9	7316.0	7323.5
10°	6890.2	6873.3	6939.0	7012.1	7135.9	7242.9	7312.3	7366.7	7413.6	7421.1
12.5°	6697.0	6676.3	6749.5	6848.9	7049.7	7242.9	7389.2	7460.5	7501.7	7526.1
15°	6665.1	6648.2	6689.5	6775.8	6942.7	7192.2	7441.7	7573.0	7608.7	7636.8
17.5°	6818.9	6787.0	6803.9	6833.9	6931.5	7145.3	7483.0	7700.6	7755.0	7785.0
20°	7175.3	7130.3	7104.1	7044.0	7027.1	7152.8	7479.2	7854.4	7925.7	7963.2
22.5°	7649.9	7619.9	7563.7	7411.7	7246.6	7244.7	7550.5	8051.4	8184.6	8220.2
25°	8224.0	8178.9	8107.7	7901.3	7584.3	7426.7	7670.6	8302.8	8526.0	8535.4
27.5°	8884.3	8816.8	8719.2	8447.2	8019.5	7711.8	7854.4	8591.6	8918.1	8914.3
30°	9580.2	9512.7	9409.5	9079.4	8541.0	8096.4	8109.5	8903.0	9383.3	9362.6
32.5°	10088.6	10038.0	10017.3	9762.2	9141.3	8550.4	8402.2	9248.2	9957.3	9938.5
35°	10478.8	10413.2	10437.5	10308.1	9796.0	9058.7	8760.5	9659.0	10655.1	10653.3
37.5°	10865.2	10807.1	10827.7	10741.4	10401.9	9704.1	9197.6	10161.8	11519.9	11561.2
40°	11217.9	11156.0	11238.5	11157.9	10872.7	10390.6	9694.7	10730.2	12521.7	12600.5
42.5°	11429.9	11381.1	11518.1	11519.9	11281.7	10970.3	10240.6	11356.7	13681.0	13857.3
45°	11503.1	11486.2	11692.5	11735.7	11643.7	11306.1	10732.1	12039.6	14930.3	15245.5
47.5°	11424.3	11392.4	11677.5	11837.0	11910.1	11463.7	11139.1	12778.7	16205.9	16667.4
50°	11026.6	10964.7	11388.6	11724.4	11985.2	11566.8	11549.9	13632.2	17656.0	18160.6
52.5°	10311.9	10265.0	10747.1	11330.5	11820.1	11617.5	12011.4	14564.5	19032.9	19685.8
55°	9398.3	9336.4	9867.3	10628.9	11409.3	11600.6	12472.9	15607.5	20657.5	21319.7
57.5°	7950.1	7826.3	8497.9	9398.3	10739.6	11580.0	12953.1	16644.9	22308.3	23101.8
60°	5837.8	5654.0	6477.5	7544.9	9430.2	11379.2	13547.8	17808.0	24289.2	25003.9
62.5°	3399.1	3292.2	3830.6	4826.7	7107.8	10197.4	13881.7	19160.5	26236.4	26986.8
65°	2639.4	2609.4	2656.3	2733.2	3956.3	7634.9	12851.8	20479.3	28712.6	29237.9
67.5°	2414.3	2391.8	2412.4	2268.0	2007.2	4252.7	10167.4	20813.2	31365.1	31684.0
70°	2146.0	2119.8	2187.3	2063.5	1579.5	1934.1	6569.4	19601.3	33475.5	34073.9
72.5°	1748.3	1718.3	1875.9	1819.6	1330.0	1241.8	3299.7	16721.8	33254.2	34496.0
75°	1343.1	1326.3	1513.9	1560.8	1084.3	977.3	1583.3	12429.7	29264.1	30515.4
77.5°	1043.0	1029.9	1125.5	1296.3	874.2	757.9	973.6	7884.4	22053.1	22272.6
80°	782.3	744.7	832.9	1003.6	681.0	553.4	660.3	4597.8	13939.9	12636.1
82.5°	489.6	470.9	544.0	669.7	480.2	380.8	429.6	2540.0	5586.4	3290.3
85°	279.5	272.0	296.4	382.7	260.8	219.5	245.7	1121.8	1020.5	701.6
87.5°	112.6	108.8	135.1	170.7	95.7	80.7	86.3	270.1	225.1	208.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956911
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7119.1	0°	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1
7147.2	2.5°	7139.7	7139.7	7113.4	7072.2	7025.3	6995.3	6946.5	6933.3	6882.7	6867.7
7211.0	5°	7226.0	7211.0	7130.3	7014.0	6854.6	6708.2	6546.9	6445.6	6303.0	6252.4
7336.7	7.5°	7334.8	7293.5	7154.7	6899.6	6565.7	6237.4	5896.0	5637.1	5389.5	5301.3
7439.8	10°	7434.2	7376.1	7139.7	6693.2	6115.5	5547.1	5003.0	4622.2	4333.3	4215.2
7554.3	12.5°	7533.6	7426.7	7040.3	6349.9	5475.8	4704.8	4125.1	3828.7	3650.5	3507.9
7648.1	15°	7627.4	7477.4	6886.4	5890.3	4774.2	3991.9	3564.2	3327.9	3185.3	3091.5
7785.0	17.5°	7736.2	7520.5	6655.7	5306.9	4106.4	3498.6	3149.6	3007.1	2978.9	2967.7
7972.6	20°	7888.2	7559.9	6351.8	4654.1	3614.9	3104.6	2924.5	2911.4	2909.5	2903.9
8197.7	22.5°	8051.4	7606.8	5950.4	4061.3	3196.5	2858.9	2827.0	2800.7	2783.8	2782.0
8469.7	25°	8244.6	7621.8	5447.6	3575.5	2840.1	2742.6	2705.1	2665.7	2654.4	2654.4
8779.2	27.5°	8432.2	7571.2	4862.3	3153.4	2639.4	2635.6	2586.9	2573.7	2571.9	2577.5
9131.9	30°	8619.8	7475.5	4280.8	2763.2	2523.1	2523.1	2506.2	2515.6	2523.1	2541.9
9615.9	32.5°	8873.0	7374.2	3795.0	2474.3	2421.8	2403.0	2419.9	2438.7	2446.2	2470.6
10251.8	35°	9244.5	7302.9	3408.5	2316.7	2316.7	2292.4	2301.7	2298.0	2281.1	2269.8
11020.9	37.5°	9735.9	7299.1	3089.6	2243.6	2228.6	2224.8	2226.7	2202.3	2136.7	2057.9
11951.4	40°	10326.9	7400.4	2843.9	2192.9	2181.7	2204.2	2192.9	2127.3	1947.2	1810.2
13095.7	42.5°	11120.4	7689.3	2686.3	2131.0	2164.8	2192.9	2147.9	1920.9	1799.0	1707.1
14399.4	45°	12054.6	8158.3	2605.6	2065.4	2132.9	2166.7	1949.1	1849.6	1752.1	1641.4
15821.4	47.5°	13112.6	8749.2	2586.9	2003.5	2061.6	2082.3	1864.6	1819.6	1708.9	1588.9
17250.8	50°	14264.4	9448.9	2637.5	1930.3	1958.4	1887.2	1836.5	1795.2	1680.8	1562.6
18715.9	52.5°	15455.6	10219.9	2738.8	1830.9	1855.3	1776.5	1825.3	1789.6	1663.9	1504.5
20229.8	55°	16626.1	10996.6	2836.4	1714.6	1750.2	1677.1	1793.4	1767.1	1587.0	1406.9
21844.9	57.5°	17815.5	11769.4	2932.0	1611.4	1648.9	1581.4	1742.7	1707.1	1500.7	1316.9
23608.3	60°	19051.7	12519.8	2977.1	1512.0	1538.2	1493.2	1665.8	1603.9	1403.2	1225.0
25341.6	62.5°	20209.1	13144.5	2903.9	1412.6	1429.4	1410.7	1564.5	1482.0	1305.6	1121.8
27148.1	65°	21370.3	13515.9	2678.8	1315.0	1318.8	1309.4	1421.9	1350.7	1191.2	1031.7
28729.5	67.5°	22422.7	13724.1	2320.5	1210.0	1200.6	1196.8	1288.7	1208.1	1080.5	941.7
29931.9	70°	22645.9	13195.1	1772.7	1086.1	1086.1	1076.8	1142.4	1059.9	958.6	846.0
29070.9	72.5°	20683.7	11099.7	1258.7	945.5	960.5	941.7	996.1	926.7	834.8	759.7
25054.6	75°	16678.7	8139.6	915.4	801.0	827.3	795.4	846.0	797.3	718.5	716.6
17265.8	77.5°	11459.9	5033.1	664.1	660.3	679.1	637.8	696.0	669.7	598.4	566.5
7514.9	80°	4890.5	2007.2	484.0	510.2	510.2	472.7	540.3	547.8	485.9	470.9
1450.1	82.5°	973.6	570.3	339.5	350.8	330.2	318.9	382.7	424.0	585.3	650.9
437.1	85°	292.6	210.1	204.5	191.3	168.8	170.7	225.1	425.8	525.3	300.1
144.4	87.5°	80.7	52.5	54.4	43.1	35.6	46.9	76.9	322.7	176.3	75.0
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>
7119.1
6892.1
6289.9
5312.6
4241.4
3554.8
3108.4
2975.2
2922.7
2802.6
2665.7
2592.5
2555.0
2491.2
2296.1
2059.7
1806.5
1703.3
1633.9
1579.5
1549.5
1493.2
1397.5
1313.1
1219.3
1119.9
1020.5
930.4
842.3
737.2
645.3
530.9
470.9
652.8
258.9
63.8
0.0

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