

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: P955777

Luminaire Tested: **GALN-SB8C-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955777
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-SB8C-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57575 lumens
Efficiency: N/A
Efficacy: 144.0 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

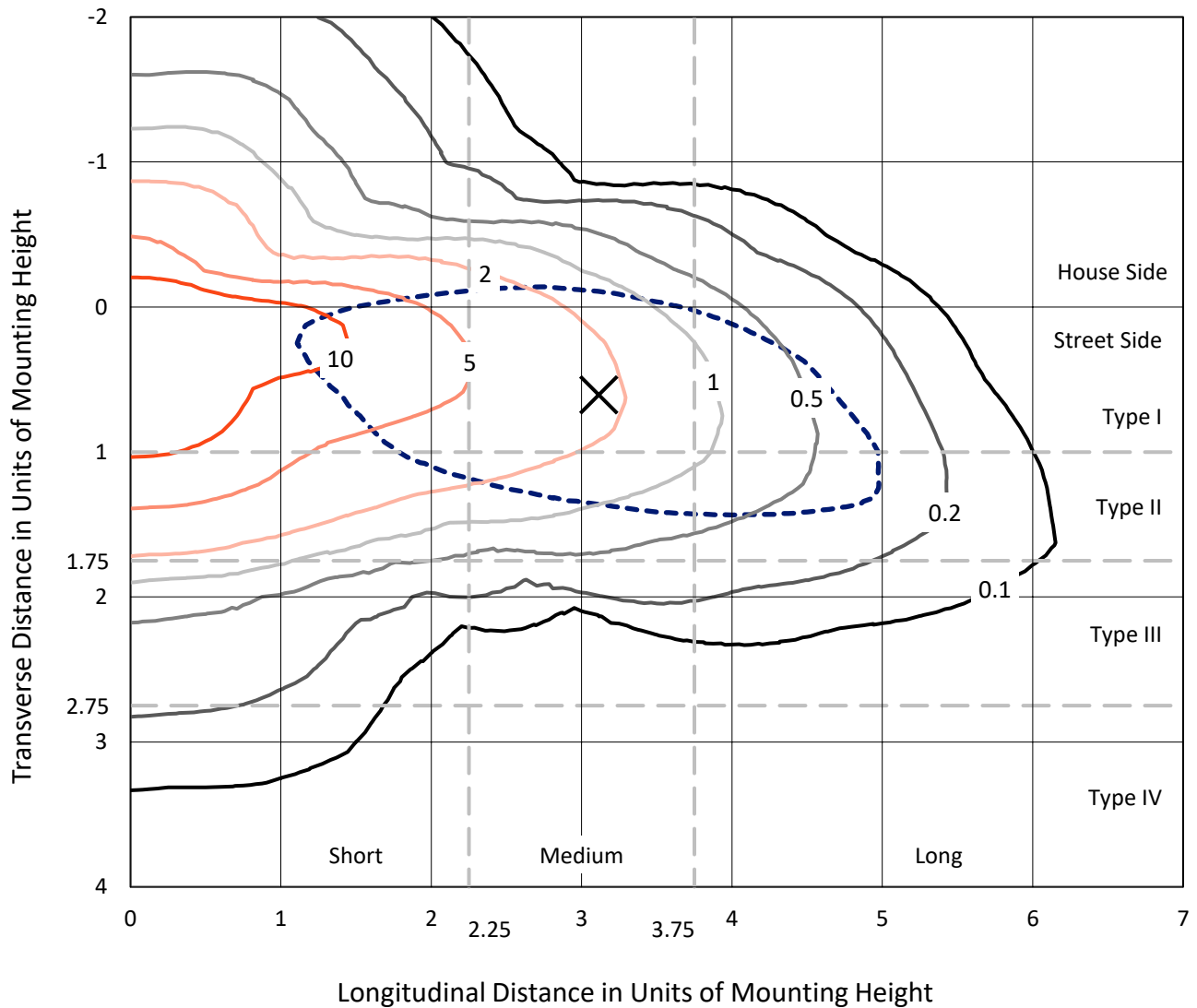
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955777
 CATALOG NUMBER: GALN-SB8C-850-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

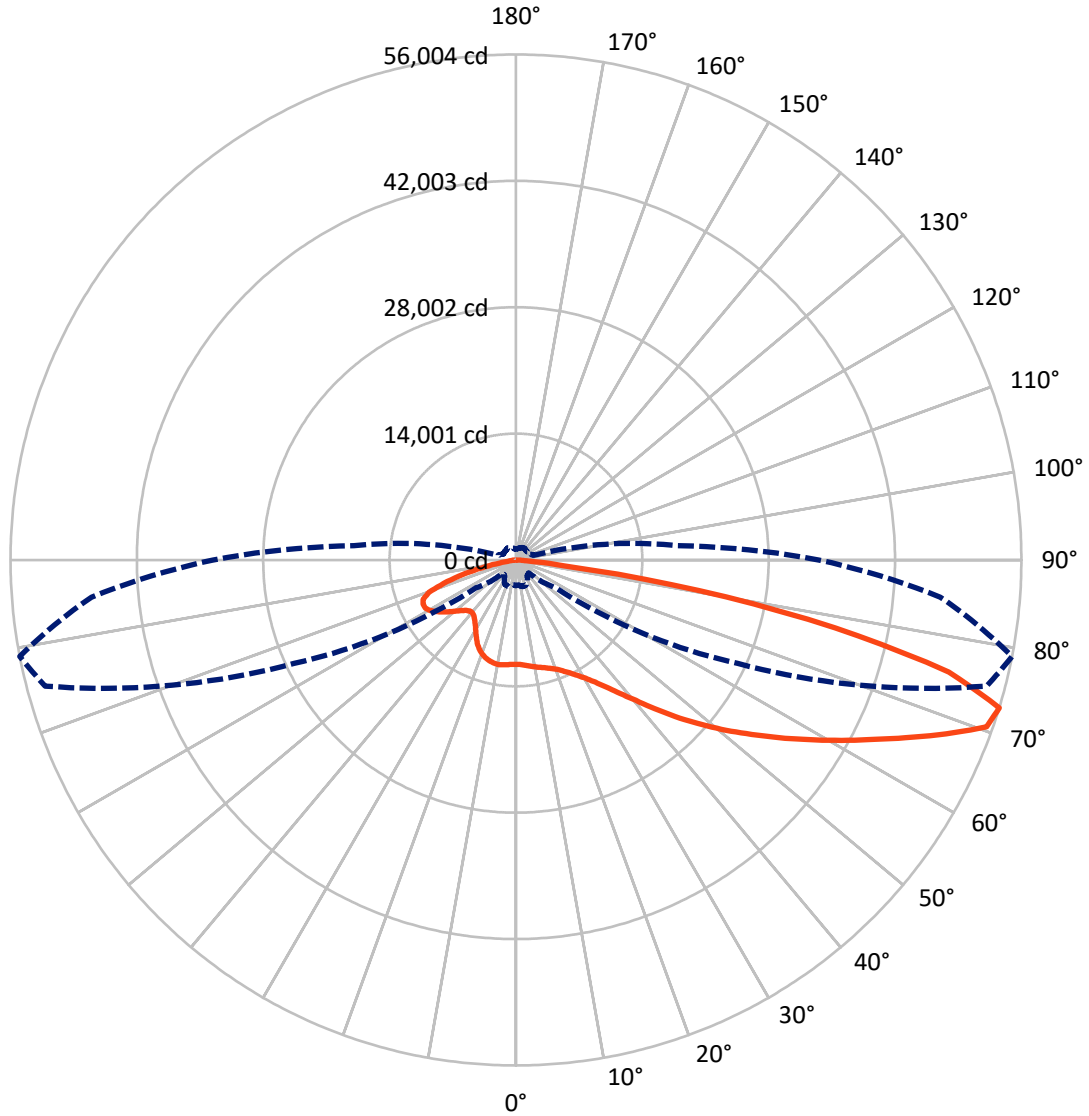
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P955777
CATALOG NUMBER: GALN-SB8C-850-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P955777

CATALOG NUMBER: GALN-SB8C-850-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12669.7	0.0	12669.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	44905.3	0.0	44905.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	57575.0	0.0	57575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.1	1.8
10°-20°	2742.9	4.8
20°-30°	4425.9	7.7
30°-40°	6642.6	11.5
40°-50°	9422.9	16.4
50°-60°	11899.9	20.7
60°-70°	12085.9	21.0
70°-80°	8237.1	14.3
80°-90°	1068.7	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°	57575.0	100.0
0°-180°	57575.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955777

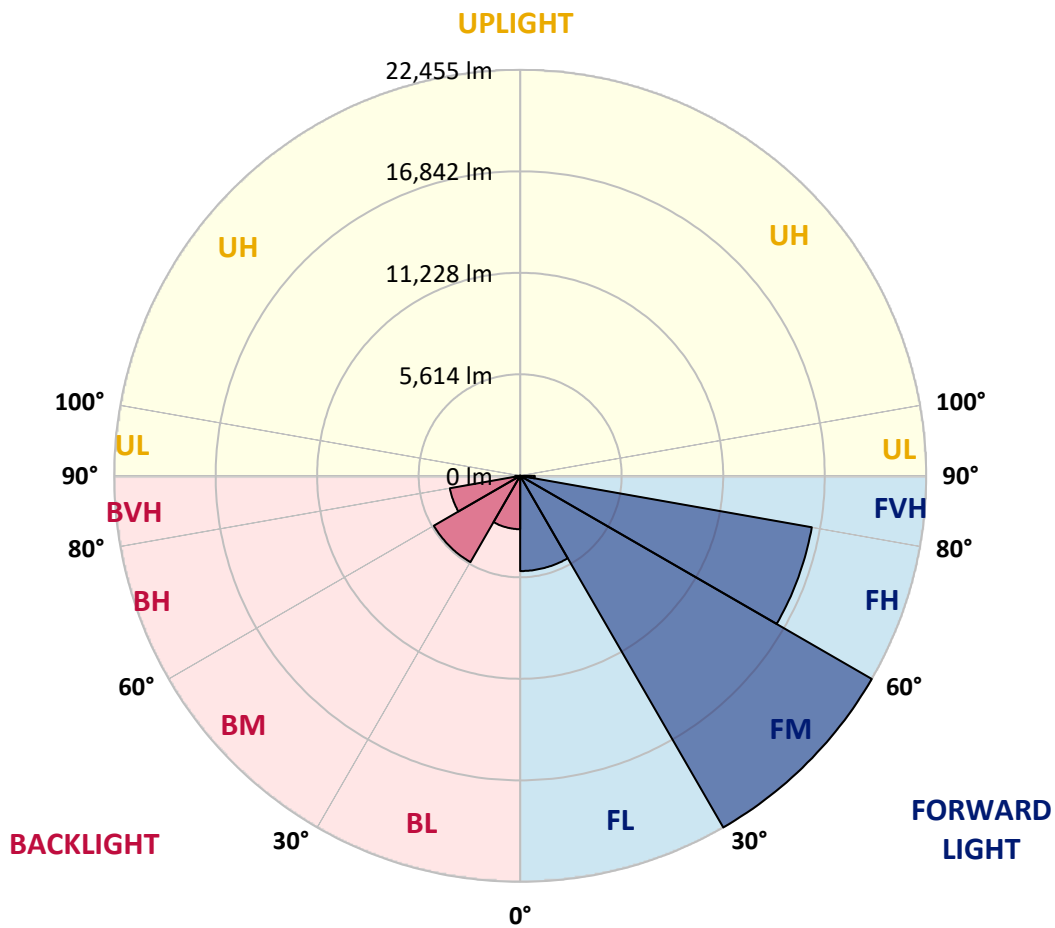
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5266.7	9.1			
FM (30°-60°)	22455.4	39.0			
FH (60°-80°)	16378.1	28.4			G5
FVH (80°-90°)	805.1	1.4			G5
BL (0°-30°)	2951.1	5.1	B4/5000		
BM (30°-60°)	5510.0	9.6	B4/8500		
BH (60°-80°)	3944.9	6.9	B4/5000		G4/5000
BVH (80°-90°)	263.6	0.5			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: P955777

CATALOG NUMBER: GALN-SB8C-850-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6
2.5°	11563.7	11508.9	11542.4	11530.2	11545.5	11563.7	11569.8	11579.0	11609.4	11606.4
5°	11539.4	11484.5	11530.2	11515.0	11554.6	11597.2	11633.8	11667.3	11716.0	11737.3
7.5°	11487.6	11451.0	11496.7	11542.4	11615.5	11679.5	11731.2	11807.4	11877.4	11889.6
10°	11186.1	11158.7	11265.3	11384.0	11585.0	11758.6	11871.3	11959.6	12035.8	12048.0
12.5°	10872.4	10838.9	10957.7	11119.1	11445.0	11758.6	11996.2	12111.9	12178.9	12218.5
15°	10820.6	10793.2	10860.2	11000.3	11271.4	11676.4	12081.5	12294.6	12352.5	12398.2
17.5°	11070.4	11018.6	11046.0	11094.7	11253.1	11600.3	12148.5	12501.7	12590.1	12638.8
20°	11649.0	11575.9	11533.3	11435.8	11408.4	11612.5	12142.4	12751.5	12867.2	12928.1
22.5°	12419.5	12370.8	12279.4	12032.7	11764.7	11761.7	12258.1	13071.2	13287.5	13345.3
25°	13351.4	13278.3	13162.6	12827.6	12312.9	12057.1	12453.0	13479.3	13841.8	13857.0
27.5°	14423.4	14313.8	14155.4	13713.8	13019.5	12520.0	12751.5	13948.3	14478.3	14472.2
30°	15553.3	15443.7	15276.2	14740.2	13866.1	13144.3	13165.7	14453.9	15233.5	15200.0
32.5°	16378.6	16296.4	16262.9	15848.7	14840.7	13881.3	13640.7	15014.3	16165.5	16135.0
35°	17012.1	16905.5	16945.1	16735.0	15903.5	14706.7	14222.4	15681.2	17298.4	17295.3
37.5°	17639.5	17545.1	17578.6	17438.5	16887.2	15754.3	14932.0	16497.4	18702.4	18769.4
40°	18212.0	18111.5	18245.5	18114.6	17651.7	16869.0	15739.1	17420.2	20328.6	20456.6
42.5°	18556.2	18477.0	18699.3	18702.4	18315.6	17810.0	16625.3	18437.4	22210.8	22497.0
45°	18674.9	18647.5	18982.5	19052.6	18903.4	18355.2	17423.2	19546.0	24239.1	24750.7
47.5°	18547.0	18495.3	18958.2	19217.0	19335.8	18611.0	18084.1	20745.9	26310.0	27059.2
50°	17901.4	17800.9	18489.2	19034.3	19457.6	18778.5	18751.1	22131.6	28664.2	29483.4
52.5°	16741.1	16664.9	17447.6	18394.8	19189.6	18860.7	19500.3	23645.2	30899.5	31959.4
55°	15257.9	15157.4	16019.3	17255.7	18522.7	18833.3	20249.5	25338.5	33536.9	34612.0
57.5°	12906.8	12705.8	13796.1	15257.9	17435.4	18799.8	21029.1	27022.6	36217.0	37505.2
60°	9477.6	9179.1	10516.1	12249.0	15309.7	18473.9	21994.5	28910.8	39433.0	40593.3
62.5°	5518.4	5344.8	6218.9	7836.0	11539.4	16555.3	22536.6	31106.6	42594.2	43812.4
65°	4285.0	4236.3	4312.4	4437.3	6422.9	12395.1	20864.7	33247.6	46614.3	47467.0
67.5°	3919.5	3883.0	3916.5	3682.0	3258.7	6904.1	16506.6	33789.7	50920.6	51438.3
70°	3484.0	3441.4	3551.0	3350.0	2564.3	3139.9	10665.3	31822.3	54346.8	55318.3
72.5°	2838.4	2789.7	3045.5	2954.1	2159.3	2016.1	5357.0	27147.5	53987.4	56003.5
75°	2180.6	2153.2	2457.7	2533.8	1760.3	1586.7	2570.4	20179.4	47509.6	49541.0
77.5°	1693.3	1672.0	1827.3	2104.4	1419.2	1230.4	1580.6	12800.2	35802.8	36159.1
80°	1270.0	1209.1	1352.2	1629.3	1105.5	898.4	1072.0	7464.5	22631.0	20514.4
82.5°	794.9	764.4	883.2	1087.2	779.6	618.2	697.4	4123.6	9069.5	5341.8
85°	453.8	441.6	481.2	621.3	423.3	356.3	399.0	1821.2	1656.7	1139.0
87.5°	182.7	176.6	219.3	277.1	155.3	131.0	140.1	438.6	365.5	338.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955777
 CATALOG NUMBER: GALN-SB8C-850-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11557.6	0°	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6	11557.6
11603.3	2.5°	11591.1	11591.1	11548.5	11481.5	11405.4	11356.6	11277.4	11256.1	11173.9	11149.5
11706.9	5°	11731.2	11706.9	11575.9	11387.1	11128.2	10890.7	10628.8	10464.3	10232.8	10150.6
11910.9	7.5°	11907.9	11840.9	11615.5	11201.3	10659.2	10126.3	9572.0	9151.7	8749.7	8606.6
12078.4	10°	12069.3	11974.9	11591.1	10866.3	9928.3	9005.5	8122.3	7504.1	7035.1	6843.2
12264.2	12.5°	12230.7	12057.1	11429.7	10309.0	8889.8	7638.1	6697.0	6215.8	5926.5	5695.1
12416.5	15°	12383.0	12139.3	11180.0	9562.8	7750.8	6480.8	5786.4	5402.7	5171.2	5019.0
12638.8	17.5°	12559.6	12209.4	10805.4	8615.7	6666.6	5679.8	5113.4	4881.9	4836.2	4818.0
12943.3	20°	12806.3	12273.3	10312.0	7555.9	5868.7	5040.3	4747.9	4726.6	4723.6	4714.4
13308.8	22.5°	13071.2	12349.5	9660.3	6593.5	5189.5	4641.3	4589.6	4546.9	4519.5	4516.5
13750.4	25°	13384.9	12373.8	8844.1	5804.7	4610.9	4452.5	4391.6	4327.6	4309.4	4309.4
14252.9	27.5°	13689.5	12291.6	7893.9	5119.5	4285.0	4278.9	4199.7	4178.4	4175.4	4184.5
14825.4	30°	13994.0	12136.3	6949.8	4486.0	4096.2	4096.2	4068.8	4084.0	4096.2	4126.6
15611.2	32.5°	14405.2	11971.8	6161.0	4017.0	3931.7	3901.3	3928.7	3959.1	3971.3	4010.9
16643.6	35°	15008.2	11856.1	5533.7	3761.2	3761.2	3721.6	3736.8	3730.7	3703.3	3685.0
17892.3	37.5°	15806.1	11850.0	5015.9	3642.4	3618.0	3612.0	3615.0	3575.4	3468.8	3340.9
19402.8	40°	16765.4	12014.5	4617.0	3560.2	3541.9	3578.5	3560.2	3453.6	3161.2	2938.9
21260.6	42.5°	18053.7	12483.5	4361.1	3459.7	3514.5	3560.2	3487.1	3118.6	2920.6	2771.4
23377.2	45°	19570.3	13244.8	4230.2	3353.1	3462.7	3517.5	3164.3	3002.9	2844.5	2664.8
25685.7	47.5°	21288.0	14204.2	4199.7	3252.6	3347.0	3380.5	3027.2	2954.1	2774.4	2579.5
28006.3	50°	23157.9	15340.1	4282.0	3133.8	3179.5	3063.8	2981.5	2914.5	2728.8	2536.9
30384.9	52.5°	25091.8	16591.8	4446.4	2972.4	3012.0	2884.1	2963.3	2905.4	2701.3	2442.5
32842.6	55°	26992.2	17852.7	4604.8	2783.6	2841.4	2722.7	2911.5	2868.9	2576.5	2284.1
35464.7	57.5°	28923.0	19107.4	4760.1	2616.1	2677.0	2567.3	2829.3	2771.4	2436.4	2137.9
38327.5	60°	30930.0	20325.6	4833.2	2454.7	2497.3	2424.2	2704.4	2603.9	2278.0	1988.7
41141.5	62.5°	32809.1	21339.7	4714.4	2293.3	2320.7	2290.2	2539.9	2405.9	2119.7	1821.2
44074.3	65°	34694.2	21942.8	4349.0	2134.9	2141.0	2125.8	2308.5	2192.8	1933.9	1675.0
46641.7	67.5°	36402.7	22280.8	3767.3	1964.3	1949.1	1943.0	2092.3	1961.3	1754.2	1528.8
48593.8	70°	36765.2	21422.0	2878.0	1763.3	1763.3	1748.1	1854.7	1720.7	1556.2	1373.5
47196.0	72.5°	33579.6	18020.2	2043.5	1534.9	1559.3	1528.8	1617.2	1504.5	1355.2	1233.4
40675.6	75°	27077.4	13214.4	1486.2	1300.4	1343.1	1291.3	1373.5	1294.3	1166.4	1163.4
28030.7	77.5°	18604.9	8171.0	1078.1	1072.0	1102.5	1035.5	1129.9	1087.2	971.5	919.7
12200.2	80°	7939.6	3258.7	785.7	828.4	828.4	767.5	877.1	889.3	788.8	764.4
2354.2	82.5°	1580.6	925.8	551.2	569.5	536.0	517.7	621.3	688.3	950.2	1056.8
709.6	85°	475.1	341.1	332.0	310.6	274.1	277.1	365.5	691.3	852.7	487.3
234.5	87.5°	131.0	85.3	88.3	70.0	57.9	76.1	124.9	523.8	286.3	121.8
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>
11557.6
11189.1
10211.5
8624.8
6885.9
5771.2
5046.4
4830.1
4744.9
4550.0
4327.6
4208.9
4148.0
4044.4
3727.7
3343.9
2932.8
2765.3
2652.6
2564.3
2515.6
2424.2
2268.9
2131.8
1979.6
1818.2
1656.7
1510.6
1367.4
1196.9
1047.6
861.9
764.4
1059.8
420.3
103.5
0.0

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