

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: P944734

Luminaire Tested: **GALN-SB9D-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58854 lumens
Efficiency: N/A
Efficacy: 89.4 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

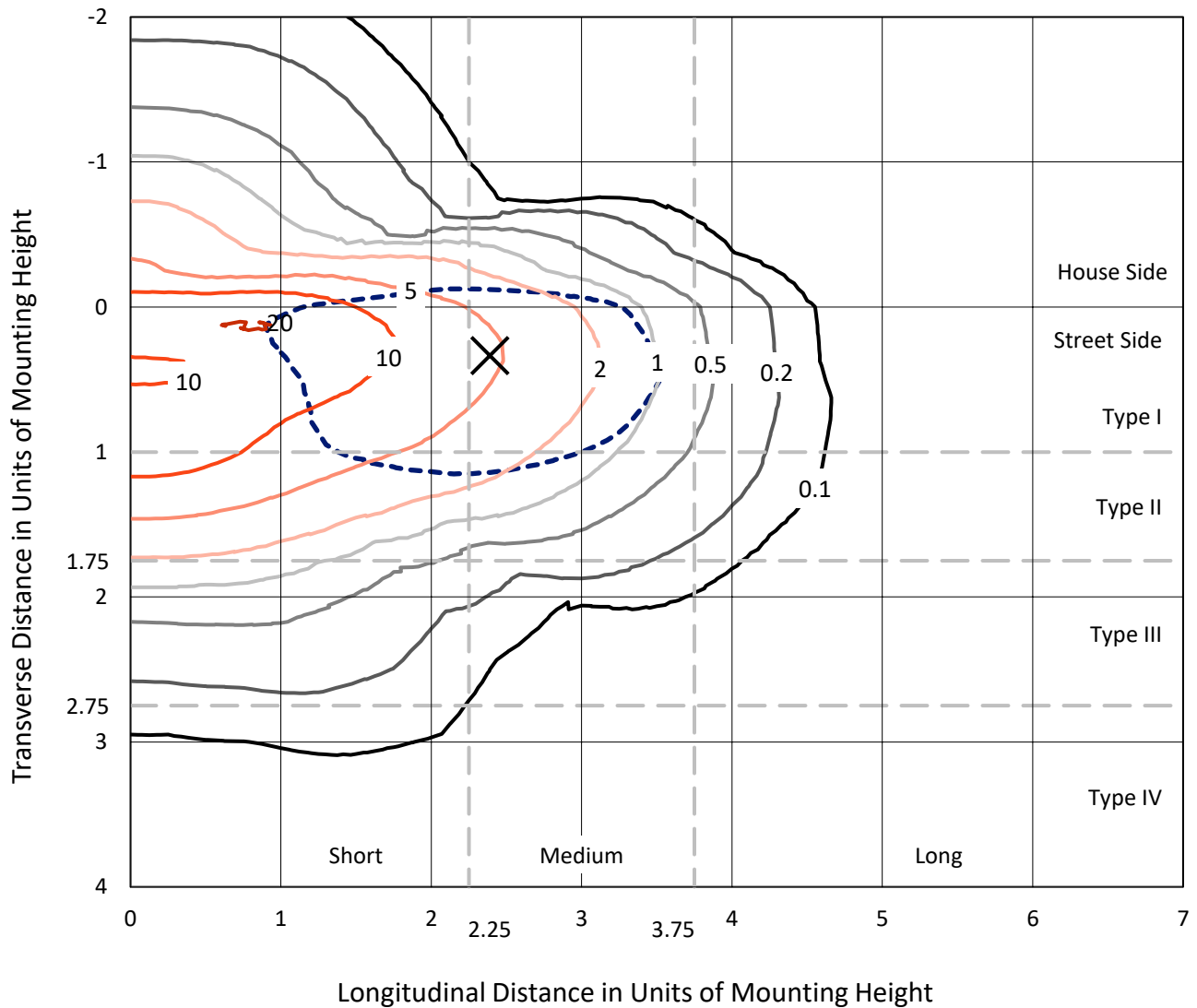
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

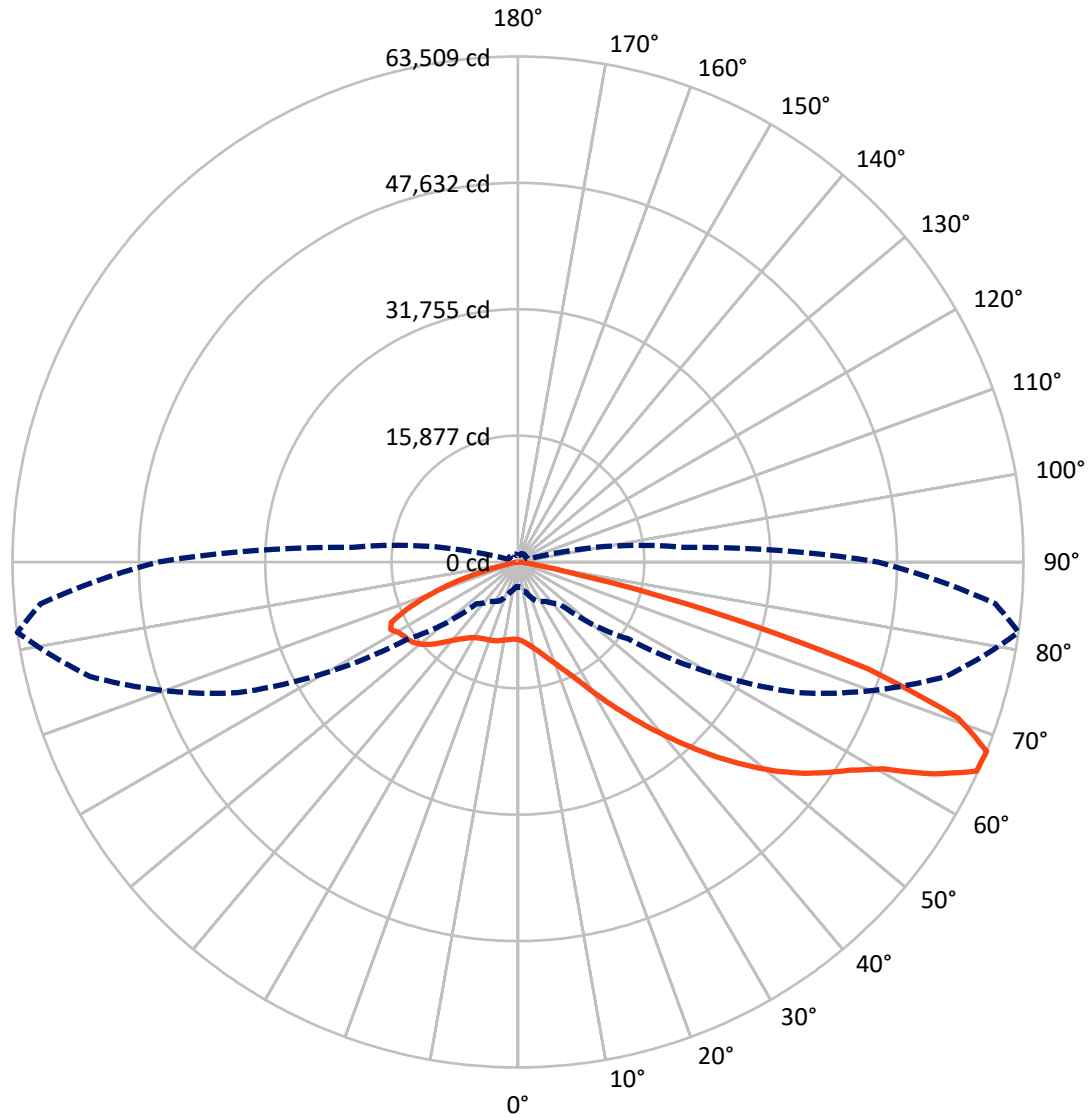
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10660.9	0.0	10660.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	48193.1	0.0	48193.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	58854.0	0.0	58854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.7	1.5
10°-20°	2257.3	3.8
20°-30°	3615.5	6.1
30°-40°	6393.3	10.9
40°-50°	11201.7	19.0
50°-60°	14939.9	25.4
60°-70°	13908.2	23.6
70°-80°	5338.0	9.1
80°-90°	331.5	0.6
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°	58854.0	100.0
0°-180°	58854.0	100.0

Coefficient of Utilization



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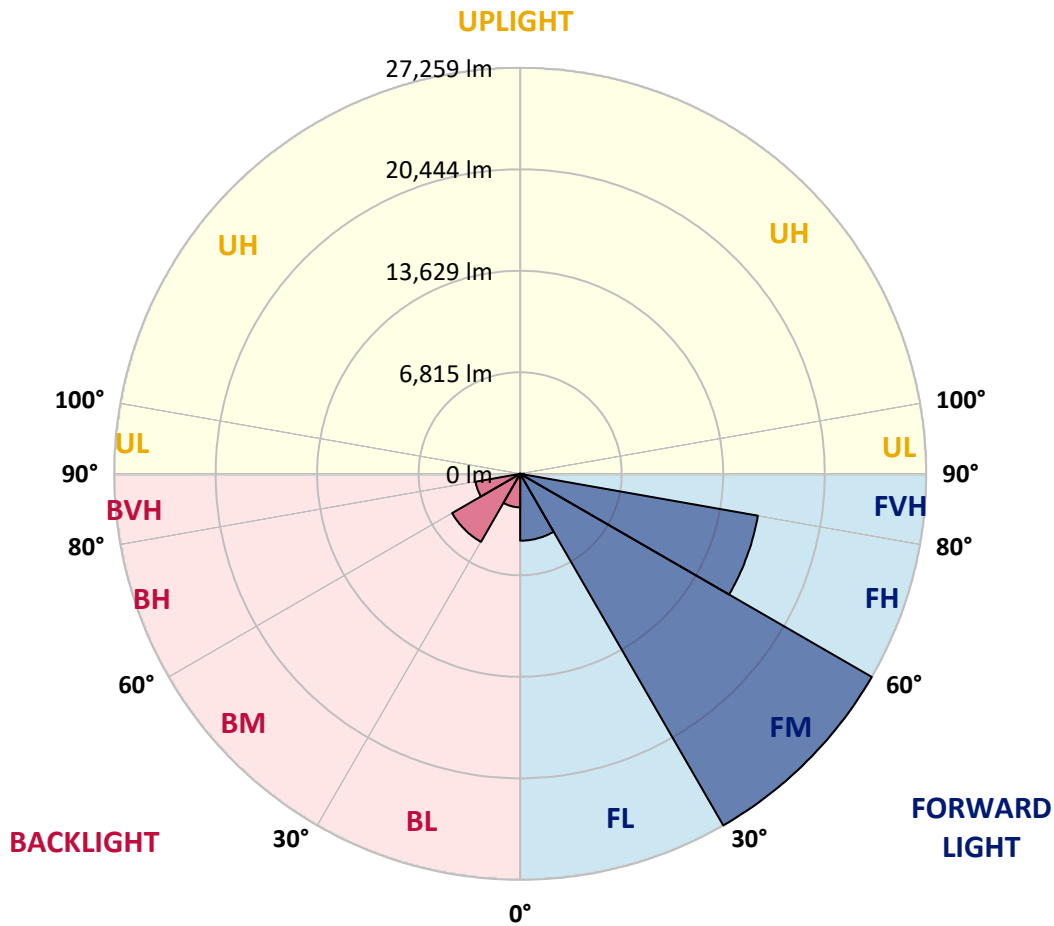
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4489.9	7.6			
FM (30°-60°)	27258.8	46.3			
FH (60°-80°)	16203.4	27.5			G5
FVH (80°-90°)	241.0	0.4			G3/500
BL (0°-30°)	2251.6	3.8	B3/2500		
BM (30°-60°)	5276.0	9.0	B4/8500		
BH (60°-80°)	3042.8	5.2	B4/5000		G4/5000
BVH (80°-90°)	90.5	0.2			G1/100
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°	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1
2.5°	10305.2	10364.5	10330.6	10313.7	10284.0	10241.6	10207.7	10101.8	9991.6	9919.6
5°	10512.8	10572.2	10567.9	10584.9	10606.1	10618.8	10610.3	10491.7	10334.9	10212.0
7.5°	10334.9	10402.7	10457.8	10542.5	10690.8	10847.6	10923.9	10898.4	10737.4	10567.9
10°	9830.6	9902.7	10034.0	10233.2	10546.7	10885.7	11169.6	11301.0	11199.3	11012.8
12.5°	8906.9	8978.9	9237.4	9669.6	10195.0	10784.0	11326.4	11678.1	11703.5	11517.1
15°	7868.7	7940.8	8216.2	8758.6	9559.4	10504.4	11411.2	12076.4	12301.0	12140.0
17.5°	7224.7	7288.2	7495.9	7932.3	8767.1	9945.0	11381.5	12500.1	13012.9	12885.7
20°	7029.7	7084.8	7182.3	7487.4	8182.3	9364.5	11186.6	12898.5	13779.8	13707.8
22.5°	7237.4	7288.2	7317.9	7453.5	7889.9	8983.2	10940.8	13305.2	14669.7	14678.1
25°	7716.2	7767.0	7733.1	7817.9	8008.6	8864.5	10847.6	13784.1	15788.3	15881.5
27.5°	8504.3	8508.6	8428.1	8423.8	8453.5	9042.5	10945.0	14296.8	17199.4	17373.1
30°	10084.9	10021.3	9712.0	9377.2	9224.7	9576.4	11216.2	14902.7	18864.6	19174.0
32.5°	12521.3	12428.1	11860.3	11059.5	10254.4	10436.6	11703.5	15593.4	20678.2	21237.5
35°	15165.4	15140.0	14546.8	13356.1	11949.3	11661.2	12495.9	16500.2	22657.0	23546.9
37.5°	17623.1	17610.4	17271.4	15868.8	14156.9	13368.8	13767.1	17686.7	24775.7	26063.9
40°	19868.9	19907.0	19568.0	18313.8	16589.2	15559.5	15495.9	19152.8	27131.7	28805.4
42.5°	21809.6	21852.0	21508.7	20580.8	18991.8	17983.3	17618.9	20949.4	29432.6	31750.4
45°	23127.4	23390.1	23339.3	22597.7	21457.9	20411.3	20169.7	23203.7	32055.5	34873.3
47.5°	23500.3	23741.8	24123.2	24224.9	23529.9	22500.3	22788.4	25919.8	34708.0	38000.5
50°	22580.8	22805.4	23597.7	24652.8	25135.9	24818.1	25335.0	28830.9	37424.2	41119.1
52.5°	20767.2	20996.0	21996.0	23665.5	25635.9	26635.9	27890.2	31699.5	40055.6	44072.6
55°	18144.3	18385.8	19669.7	21559.6	24682.5	27385.9	30021.5	34564.0	42466.6	46729.4
57.5°	14576.4	14754.4	16089.2	18733.3	22284.2	26640.1	31593.6	37691.1	44737.8	49339.6
60°	9500.1	9656.9	11207.8	14156.9	18309.5	24148.6	31907.2	41178.5	47754.8	52733.7
62.5°	6317.9	6423.8	7343.3	9508.6	12894.2	19364.6	30072.4	43962.4	52178.6	58640.5
65°	4334.8	4440.7	5360.2	6868.7	8330.6	12809.5	24796.9	43593.7	56187.1	63331.3
67.5°	3093.3	3182.2	3961.9	5385.7	6029.7	7440.8	16809.5	38881.8	55610.8	63509.2
70°	2216.1	2267.0	2911.1	4195.0	4792.4	4470.4	9347.6	29737.6	48691.3	58644.8
72.5°	1550.9	1567.8	2021.2	3195.0	3860.2	3262.8	4449.2	19826.5	36826.7	46030.2
75°	1050.9	1072.0	1360.2	2343.2	3097.5	2491.6	2356.0	10631.5	21618.9	25479.1
77.5°	644.1	652.6	877.1	1601.7	2317.8	1898.3	1517.0	4504.3	8364.5	8212.0
80°	364.4	364.4	559.3	995.8	1580.5	1224.6	1063.6	1915.3	2648.3	2326.3
82.5°	203.4	207.6	406.8	618.7	1046.6	724.6	584.8	885.6	1144.1	1012.7
85°	84.7	93.2	250.0	292.4	500.0	360.2	237.3	372.9	423.7	377.1
87.5°	8.5	12.7	76.3	55.1	59.3	72.0	33.9	72.0	59.3	59.3
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°
9750.1	0°	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1	9750.1
9894.2	2.5°	9813.7	9750.1	9589.1	9402.7	9156.9	9038.2	8877.2	8767.1	8673.8	8682.3
10140.0	5°	10004.4	9843.3	9483.2	9034.0	8474.7	8076.4	7652.6	7360.3	7123.0	7072.1
10478.9	7.5°	10267.1	10012.8	9381.5	8572.1	7627.2	6911.1	6271.3	5860.2	5567.9	5474.6
10890.0	10°	10606.1	10237.4	9250.1	7991.6	6631.4	5720.4	5034.0	4711.9	4512.8	4445.0
11373.0	12.5°	11000.1	10495.9	9076.4	7284.0	5606.0	4728.9	4292.4	4131.4	4067.8	4046.7
11966.2	15°	11495.9	10817.9	8813.7	6445.0	4737.3	4122.9	3936.5	3915.3	3923.8	3915.3
12678.1	17.5°	12084.9	11169.6	8385.7	5580.6	4152.6	3813.6	3745.8	3762.8	3783.9	3779.7
13474.7	20°	12729.0	11517.1	7839.1	4813.6	3754.3	3593.3	3555.1	3572.1	3589.0	3580.6
14394.2	22.5°	13462.0	11890.0	7233.1	4216.2	3487.3	3389.9	3347.5	3351.7	3351.7	3334.8
15559.5	25°	14339.2	12301.0	6597.5	3792.4	3283.9	3207.7	3156.8	3139.9	3114.4	3063.6
16974.8	27.5°	15385.8	12737.4	5987.4	3495.8	3122.9	3050.9	2991.6	2949.2	2885.6	2800.9
18674.0	30°	16563.8	13267.1	5470.4	3309.4	2995.8	2923.8	2856.0	2792.4	2699.2	2593.3
20627.4	32.5°	17949.4	13834.9	5093.3	3186.5	2881.4	2805.1	2724.6	2648.3	2546.6	2440.7
22822.3	35°	19601.9	14521.4	4872.9	3101.7	2792.4	2690.7	2601.7	2517.0	2440.7	2347.5
25207.9	37.5°	21394.3	15250.2	4805.1	3059.4	2733.1	2576.3	2474.6	2415.3	2406.8	2351.7
27788.5	40°	23356.2	16114.6	4856.0	3033.9	2669.5	2466.1	2356.0	2343.2	2364.4	2267.0
30547.0	42.5°	25432.5	17140.0	4940.7	3004.3	2580.5	2356.0	2250.0	2250.0	2233.1	2097.5
33462.3	45°	27678.3	18322.3	5025.5	2932.2	2474.6	2245.8	2165.3	2135.6	2063.6	1932.2
36394.5	47.5°	29941.0	19525.7	5089.0	2800.9	2347.5	2152.6	2080.5	2012.7	1906.8	1788.2
39271.7	50°	32089.4	20606.2	5021.2	2606.0	2203.4	2063.6	1987.3	1894.1	1779.7	1699.2
41996.3	52.5°	34008.9	21542.6	4733.1	2377.1	2050.9	1970.4	1902.6	1805.1	1711.9	1627.1
44453.9	55°	35678.4	22301.1	4224.6	2161.0	1915.3	1889.9	1822.1	1699.2	1572.1	1500.0
46890.4	57.5°	37280.1	22877.4	3589.0	1983.1	1792.4	1800.9	1699.2	1589.0	1470.4	1394.1
50174.3	60°	39411.5	23648.6	2945.0	1817.8	1661.0	1686.5	1576.3	1495.8	1347.5	1250.0
55805.7	62.5°	42818.3	24847.8	2339.0	1614.4	1508.5	1517.0	1470.4	1372.9	1194.9	1080.5
59979.5	65°	45521.7	24407.1	1843.2	1394.1	1334.8	1347.5	1347.5	1241.5	1050.9	919.5
60204.1	67.5°	45216.6	20898.6	1470.4	1178.0	1169.5	1178.0	1207.6	1118.7	932.2	826.3
55619.3	70°	41653.0	16623.1	1178.0	978.8	1017.0	995.8	1080.5	1021.2	839.0	733.1
43119.2	72.5°	33987.7	11974.7	898.3	809.3	779.7	813.6	974.6	919.5	699.2	580.5
22839.3	75°	19860.4	6389.9	669.5	639.8	563.6	678.0	864.4	783.9	533.9	428.0
7000.1	77.5°	6466.2	2228.8	491.5	470.3	419.5	546.6	737.3	661.0	436.4	339.0
2050.9	80°	1733.1	673.7	334.7	309.3	271.2	406.8	584.8	525.4	313.6	220.3
881.4	82.5°	694.9	283.9	194.9	173.7	148.3	279.7	461.9	423.7	233.1	139.8
275.4	85°	224.6	93.2	72.0	55.1	67.8	173.7	275.4	288.1	165.3	72.0
42.4	87.5°	29.7	12.7	12.7	16.9	12.7	29.7	84.7	80.5	46.6	8.5
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>
9750.1
8597.6
6957.7
5381.4
4394.1
4033.9
3911.1
3771.2
3576.3
3326.3
3055.1
2792.4
2584.8
2444.9
2339.0
2347.5
2271.2
2097.5
1928.0
1783.9
1686.5
1618.7
1491.5
1385.6
1237.3
1072.0
906.8
809.3
720.3
567.8
415.3
326.3
216.1
139.8
55.1
0.0
0.0

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