

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: P944785

Luminaire Tested: **GALN-SB9D-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944785
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-SB9D-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55902 lumens
Efficiency: N/A
Efficacy: 85.0 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

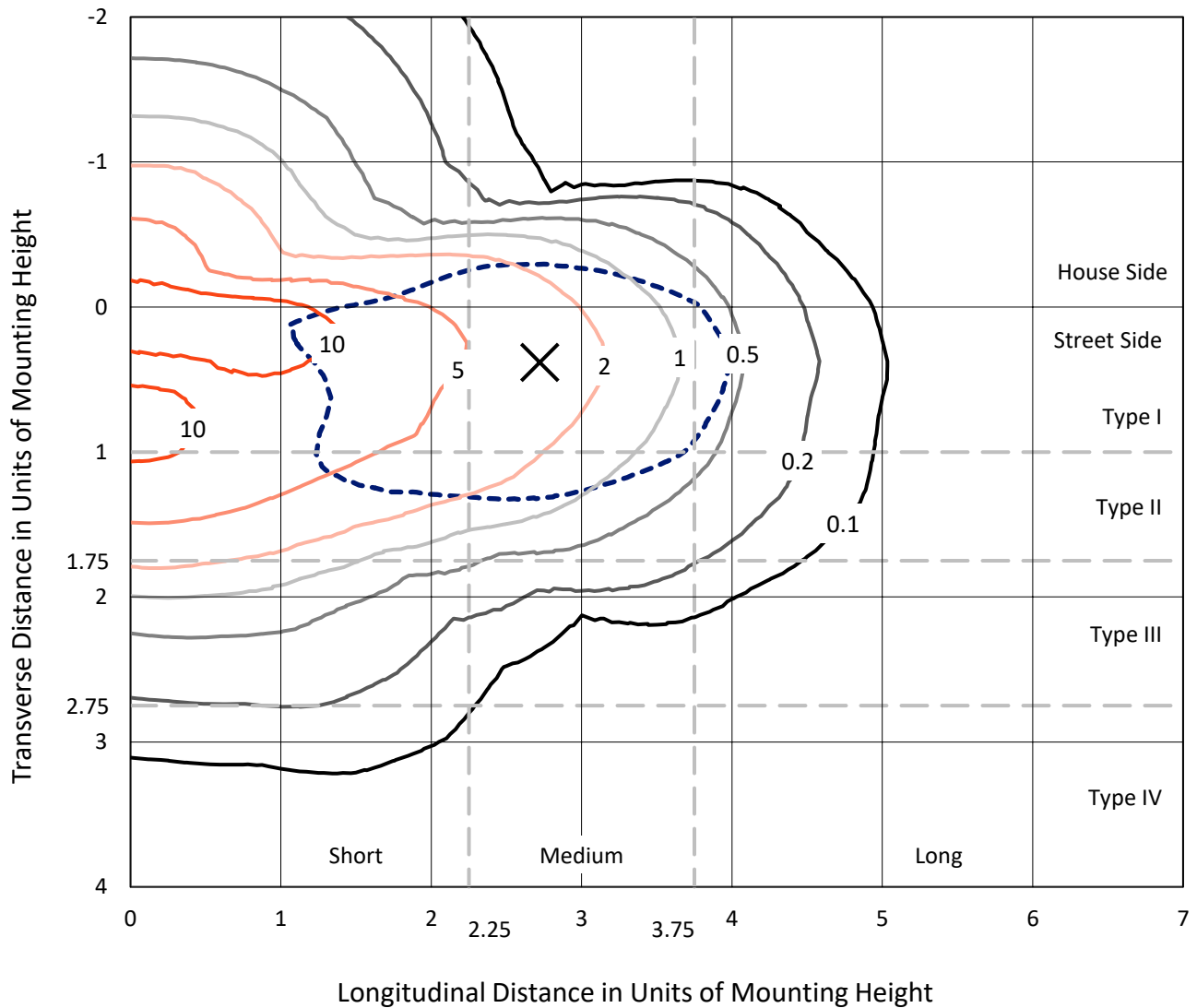
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

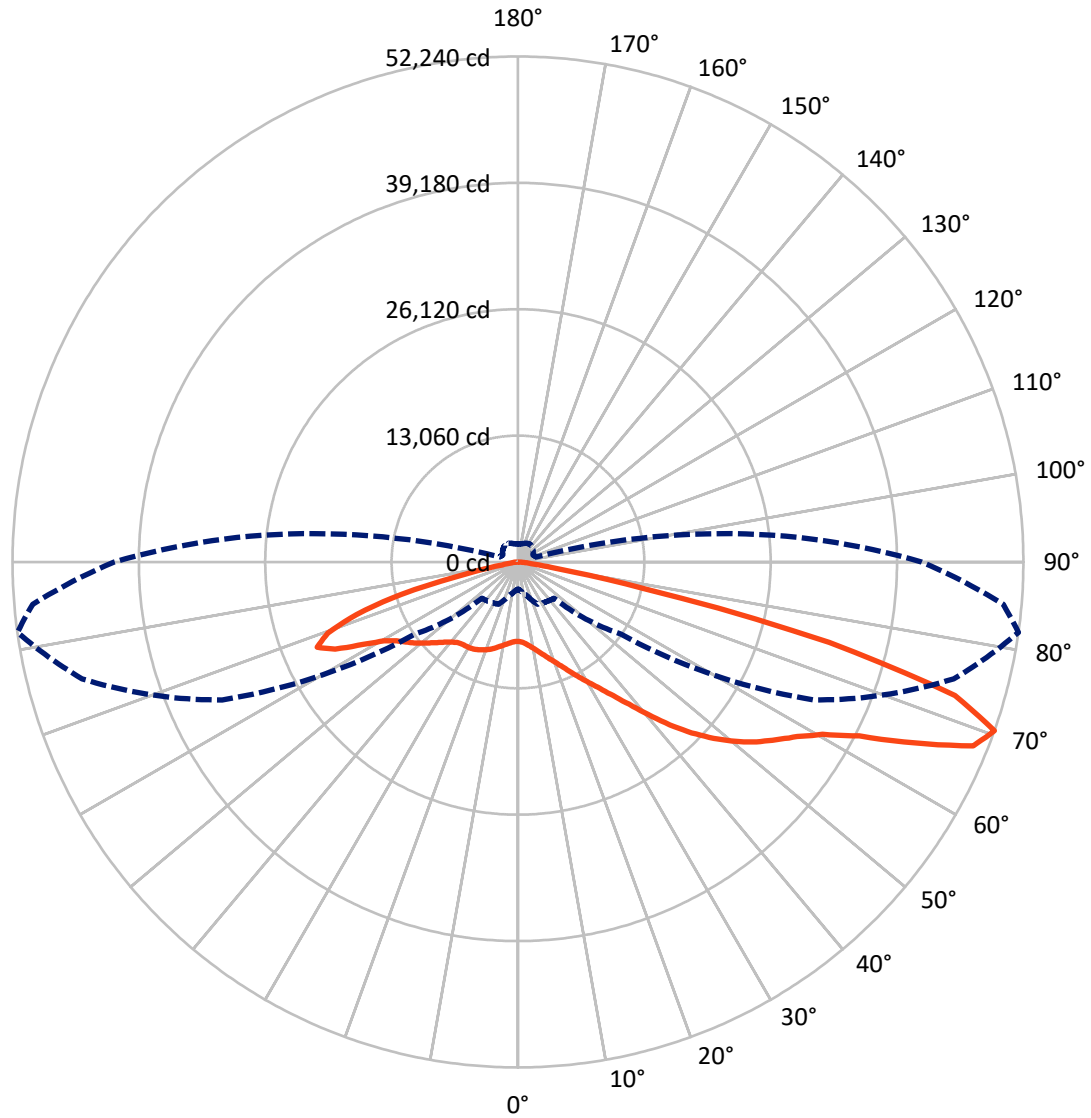
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	13781.2	0.0	13781.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	42120.8	0.0	42120.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	55902.0	0.0	55902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.8	1.4
10°-20°	2223.3	4.0
20°-30°	3719.3	6.7
30°-40°	5810.6	10.4
40°-50°	9254.0	16.6
50°-60°	12878.1	23.0
60°-70°	13471.1	24.1
70°-80°	7040.7	12.6
80°-90°	731.1	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°	55902.0	100.0
0°-180°	55902.0	100.0

Coefficient of Utilization



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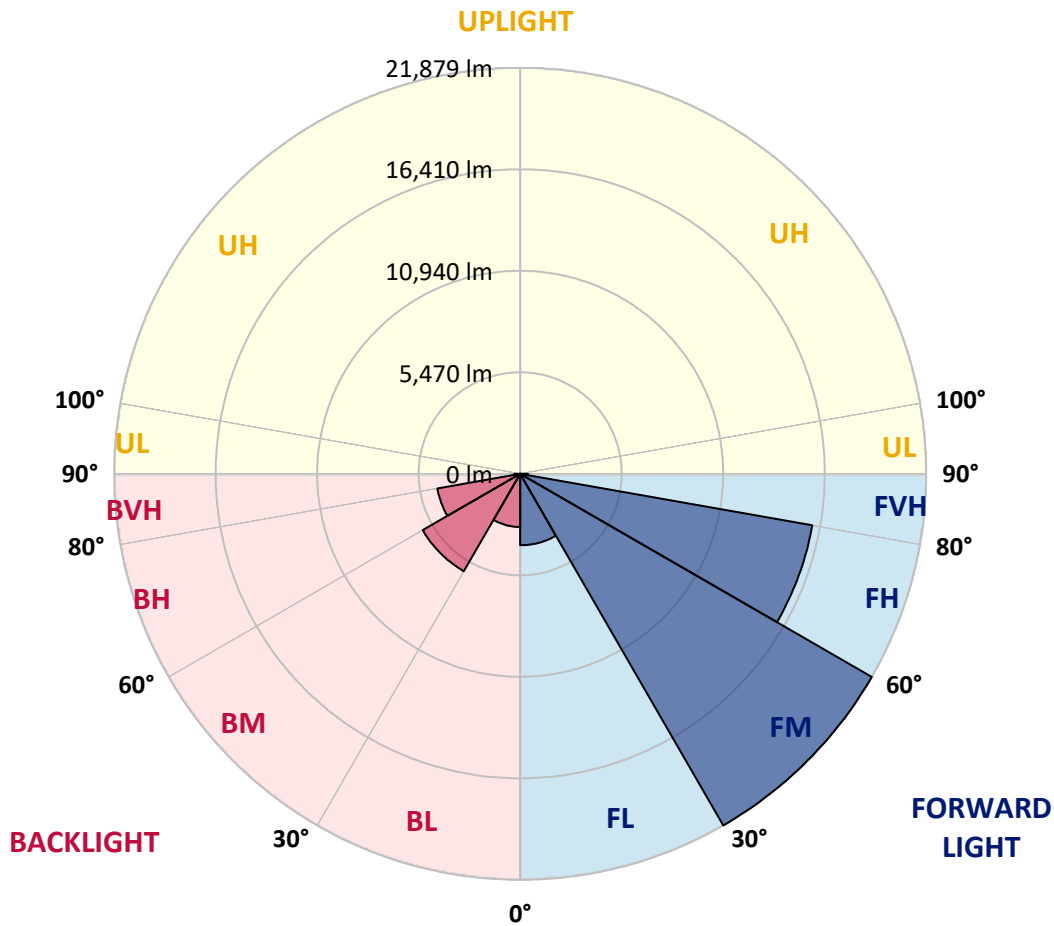
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3849.5	6.9			
FM (30°-60°)	21879.5	39.1			
FH (60°-80°)	15982.6	28.6			G5
FVH (80°-90°)	409.3	0.7			G3/500
BL (0°-30°)	2867.0	5.1	B4/5000		
BM (30°-60°)	6063.2	10.8	B4/8500		
BH (60°-80°)	4529.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	321.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9
2.5°	8391.7	8439.2	8424.3	8409.5	8409.5	8388.7	8385.8	8356.1	8332.4	8293.8
5°	8498.5	8548.9	8543.0	8554.9	8593.4	8602.3	8611.2	8593.4	8546.0	8498.5
7.5°	8403.6	8459.9	8477.7	8548.9	8667.6	8774.4	8854.5	8887.1	8842.6	8774.4
10°	8083.2	8145.5	8207.8	8376.9	8587.5	8839.6	9053.2	9180.7	9171.9	9106.6
12.5°	7433.6	7498.8	7632.3	7961.6	8347.2	8792.2	9189.6	9456.6	9548.6	9501.1
15°	6914.5	6970.8	7071.7	7409.9	7911.2	8587.5	9240.1	9759.2	9993.5	9966.8
17.5°	6899.7	6923.4	6985.7	7145.9	7531.5	8267.1	9186.7	10055.8	10503.7	10500.8
20°	7160.7	7169.6	7205.2	7237.8	7457.3	8023.9	9050.2	10302.0	11076.2	11076.2
22.5°	7522.6	7516.6	7552.2	7522.6	7629.4	8003.1	8964.2	10518.6	11714.0	11761.4
25°	8065.4	8035.8	8026.9	7958.6	7979.4	8195.9	9059.1	10764.8	12470.4	12568.3
27.5°	8789.2	8741.7	8709.1	8551.9	8498.5	8593.4	9349.8	11061.4	13312.8	13481.9
30°	9732.5	9646.5	9599.0	9326.1	9133.3	9148.1	9788.8	11455.9	14193.8	14466.7
32.5°	11019.9	10886.4	10758.8	10310.9	9957.9	9842.2	10355.4	12001.7	15149.0	15585.0
35°	12461.5	12354.7	12218.3	11527.1	10984.3	10717.3	11120.7	12764.1	16267.3	16958.4
37.5°	13849.7	13757.8	13823.0	12891.6	12191.6	11803.0	12123.3	13787.4	17646.6	18667.0
40°	15285.4	15214.2	15223.1	14333.2	13517.5	13081.5	13339.5	15071.9	19227.7	20699.0
42.5°	16845.7	16792.3	16614.3	15825.3	14908.7	14502.3	14739.6	16555.0	20924.4	23012.7
45°	18592.9	18560.2	18394.1	17489.4	16439.3	15982.5	16302.9	18192.4	22630.0	25190.0
47.5°	20102.7	20129.4	20108.7	19346.3	18257.7	17587.3	17969.9	19901.0	24217.0	27236.7
50°	20829.5	20968.9	21173.6	20936.3	20259.9	19577.7	19651.8	21550.3	25729.8	29155.9
52.5°	20449.8	20713.8	21271.5	21651.1	21912.2	21769.8	21571.1	23187.7	27153.7	30888.3
55°	19034.9	19405.6	20331.1	21247.7	22579.6	23614.8	23875.9	25003.1	28541.9	32412.9
57.5°	16457.1	17059.3	17889.9	19743.8	21986.3	24507.7	26563.4	27521.5	30013.2	34041.4
60°	12037.3	12844.2	13876.4	16635.1	19909.9	24030.1	28850.4	31389.6	32104.4	36150.5
62.5°	7703.5	8201.9	9151.1	11749.6	15513.8	21582.9	29550.4	36224.7	35649.2	39609.2
65°	5274.1	5594.5	6463.6	7923.0	10029.1	16065.6	27675.7	39849.5	41279.3	45091.0
67.5°	3832.5	4075.7	4817.3	6095.8	6534.8	9507.0	21476.1	39683.4	46752.1	50738.8
70°	2794.3	2966.3	3589.2	4817.3	5027.9	5288.9	13010.3	33733.0	46633.5	52239.8
72.5°	2070.5	2189.1	2607.4	3737.6	4069.8	3571.4	6439.9	24516.6	40072.0	47250.5
75°	1498.0	1587.0	1895.5	2859.5	3257.0	2720.1	3212.5	14327.3	27951.6	33237.6
77.5°	1145.0	1213.2	1414.9	2094.2	2607.4	2040.8	1993.4	6591.2	13253.5	13318.8
80°	919.6	964.1	1073.8	1474.3	1999.3	1527.7	1299.2	2660.8	4188.4	3544.7
82.5°	676.3	750.5	907.7	1035.2	1429.8	1053.0	792.0	1343.7	1592.9	1370.4
85°	385.6	436.0	548.8	741.6	913.6	643.7	453.8	596.2	741.6	608.1
87.5°	136.5	178.0	192.8	290.7	397.5	267.0	175.0	172.0	243.2	180.9
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°
8195.9	0°	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9	8195.9
8284.9	2.5°	8255.3	8240.4	8181.1	8101.0	8018.0	7937.9	7911.2	7854.8	7816.2	7795.5
8477.7	5°	8421.4	8373.9	8234.5	8056.5	7869.6	7667.9	7525.5	7395.0	7300.1	7211.1
8741.7	7.5°	8658.7	8575.6	8335.3	8023.9	7691.7	7356.5	7107.3	6917.4	6789.9	6706.8
9050.2	10°	8934.5	8807.0	8439.2	7973.5	7460.3	6979.7	6686.1	6522.9	6442.8	6398.3
9403.2	12.5°	9251.9	9071.0	8546.0	7857.8	7107.3	6558.5	6356.8	6309.4	6312.3	6315.3
9848.2	15°	9643.5	9391.4	8632.0	7605.6	6647.5	6235.2	6199.6	6276.7	6356.8	6395.4
10352.4	17.5°	10085.5	9729.5	8646.8	7190.4	6196.6	6027.6	6140.3	6306.4	6428.0	6481.4
10916.0	20°	10560.1	10073.6	8540.0	6603.0	5825.8	5858.5	6060.2	6273.8	6407.2	6475.5
11559.7	22.5°	11102.9	10441.4	8284.9	5986.0	5523.3	5674.6	5911.9	6119.5	6258.9	6327.2
12316.1	25°	11722.9	10853.8	7884.5	5466.9	5262.2	5466.9	5704.2	5876.3	5989.0	6051.3
13161.5	27.5°	12411.1	11283.9	7350.5	5054.6	5033.8	5253.3	5449.1	5582.6	5641.9	5689.4
14060.3	30°	13102.2	11675.4	6703.9	4743.1	4835.1	5042.7	5182.2	5241.5	5259.3	5268.2
15063.0	32.5°	13849.7	12013.6	6024.6	4485.1	4645.3	4838.1	4921.1	4947.8	4864.8	4808.4
16279.1	35°	14754.5	12375.5	5360.1	4280.4	4458.4	4624.5	4651.2	4627.5	4529.6	4413.9
17803.8	37.5°	15872.8	12826.4	4829.2	4135.0	4283.4	4393.1	4360.5	4354.6	4363.5	4227.0
19637.0	40°	17243.2	13413.7	4440.6	4022.3	4141.0	4164.7	4072.8	4123.2	4167.7	3960.0
21648.2	42.5°	18764.9	14122.6	4194.4	3945.2	4022.3	3966.0	3823.6	3879.9	3874.0	3601.1
23668.2	45°	20316.3	14893.9	4108.3	3888.8	3912.6	3799.9	3642.6	3657.5	3532.9	3286.7
25605.2	47.5°	21858.8	15721.5	4161.7	3841.4	3776.1	3648.6	3527.0	3461.7	3277.8	3093.9
27462.2	50°	23371.6	16590.6	4357.5	3746.5	3589.2	3515.1	3426.1	3310.4	3114.6	2957.4
29218.2	52.5°	24774.7	17465.7	4577.0	3589.2	3354.9	3399.4	3343.0	3209.6	3016.7	2856.6
30879.4	55°	26103.6	18340.7	4663.0	3372.7	3135.4	3298.5	3265.9	3019.7	2788.3	2657.8
32617.6	57.5°	27551.1	19393.8	4568.1	3096.8	2957.4	3182.9	3058.3	2785.4	2651.9	2554.0
34880.9	60°	29556.4	21046.0	4363.5	2755.7	2788.3	3010.8	2797.2	2684.5	2539.2	2429.4
38274.4	62.5°	32887.5	24128.0	4034.2	2417.5	2589.6	2755.7	2672.7	2559.9	2411.6	2304.8
44076.5	65°	37811.6	28411.4	3414.2	2153.5	2367.1	2506.5	2539.2	2426.4	2272.2	2159.5
49160.8	67.5°	41964.5	31098.9	2583.7	1934.0	2138.7	2304.8	2396.8	2287.0	2123.9	2014.1
50350.3	70°	41736.1	29147.0	1972.6	1717.5	1937.0	2106.1	2224.7	2138.7	1963.7	1859.9
45734.7	72.5°	37070.1	24383.1	1595.9	1498.0	1732.3	1898.4	2040.8	1975.6	1797.6	1696.7
33504.5	75°	27233.8	17308.5	1275.5	1275.5	1477.2	1681.9	1839.1	1797.6	1634.4	1563.2
14066.3	77.5°	11479.6	7261.5	999.6	1059.0	1228.1	1444.6	1640.4	1655.2	1512.8	1601.8
3719.8	80°	3052.3	2002.3	762.3	833.5	964.1	1192.5	1426.8	1420.9	1266.6	1183.6
1382.3	82.5°	1162.8	789.0	542.8	587.3	697.1	913.6	1130.2	1165.8	1011.5	875.1
542.8	85°	447.9	338.2	335.2	353.0	406.4	605.1	854.3	884.0	762.3	646.7
151.3	87.5°	115.7	100.9	124.6	118.7	186.9	323.3	489.4	507.2	465.7	269.9
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>
8195.9
7819.2
7246.7
6724.6
6410.2
6321.2
6392.4
6493.3
6493.3
6345.0
6069.1
5707.2
5288.9
4826.2
4419.8
4235.9
3966.0
3598.1
3295.6
3093.9
2945.6
2859.5
2646.0
2545.1
2423.5
2304.8
2165.4
2017.1
1868.8
1696.7
1542.5
1453.5
1100.5
875.1
667.4
385.6
0.0

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