

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: P944109

Luminaire Tested: **GALN-SB8D-927-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944109  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-927-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

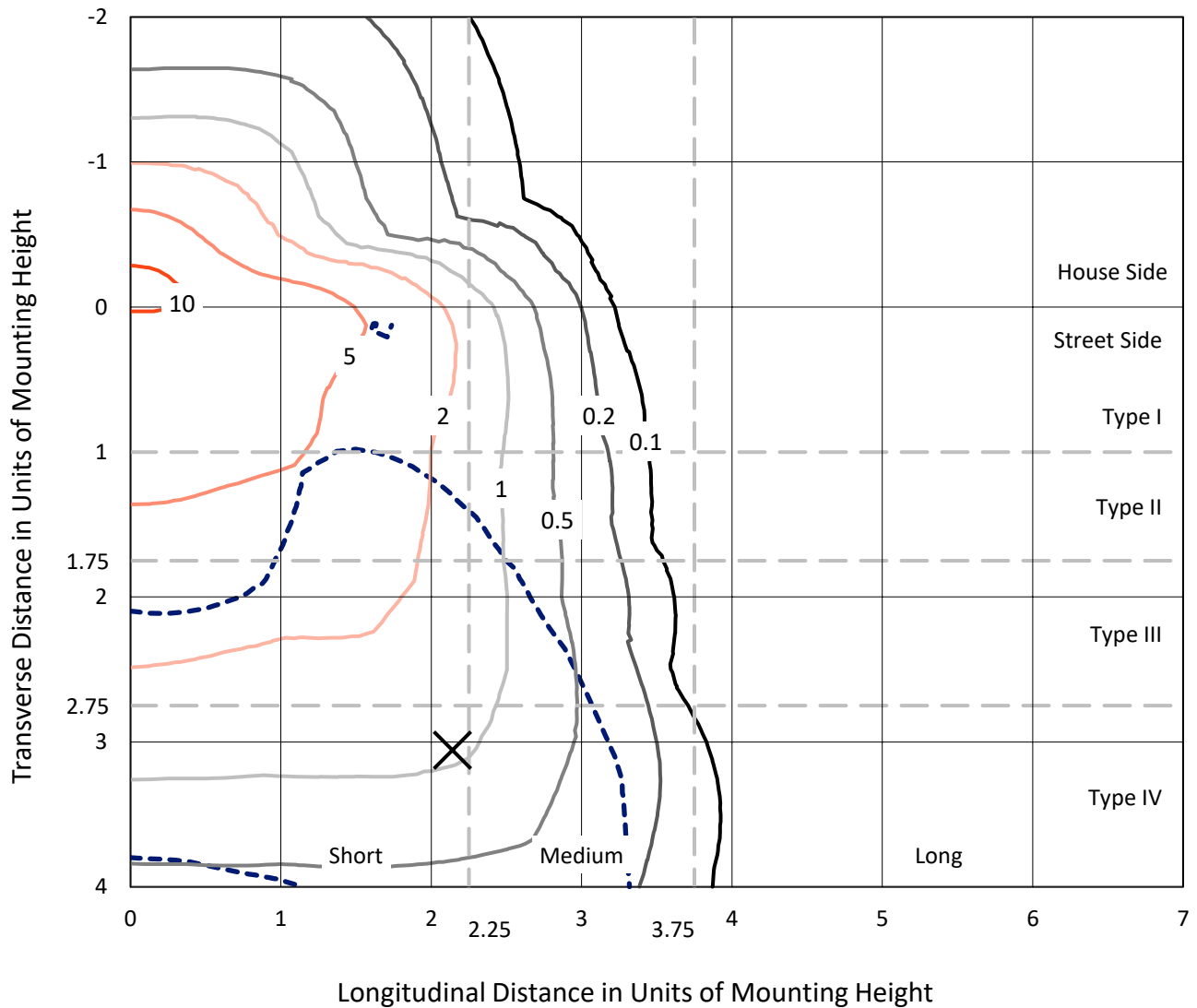
Lumens per Lamp: N/A  
Luminaire Lumens: 49504 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

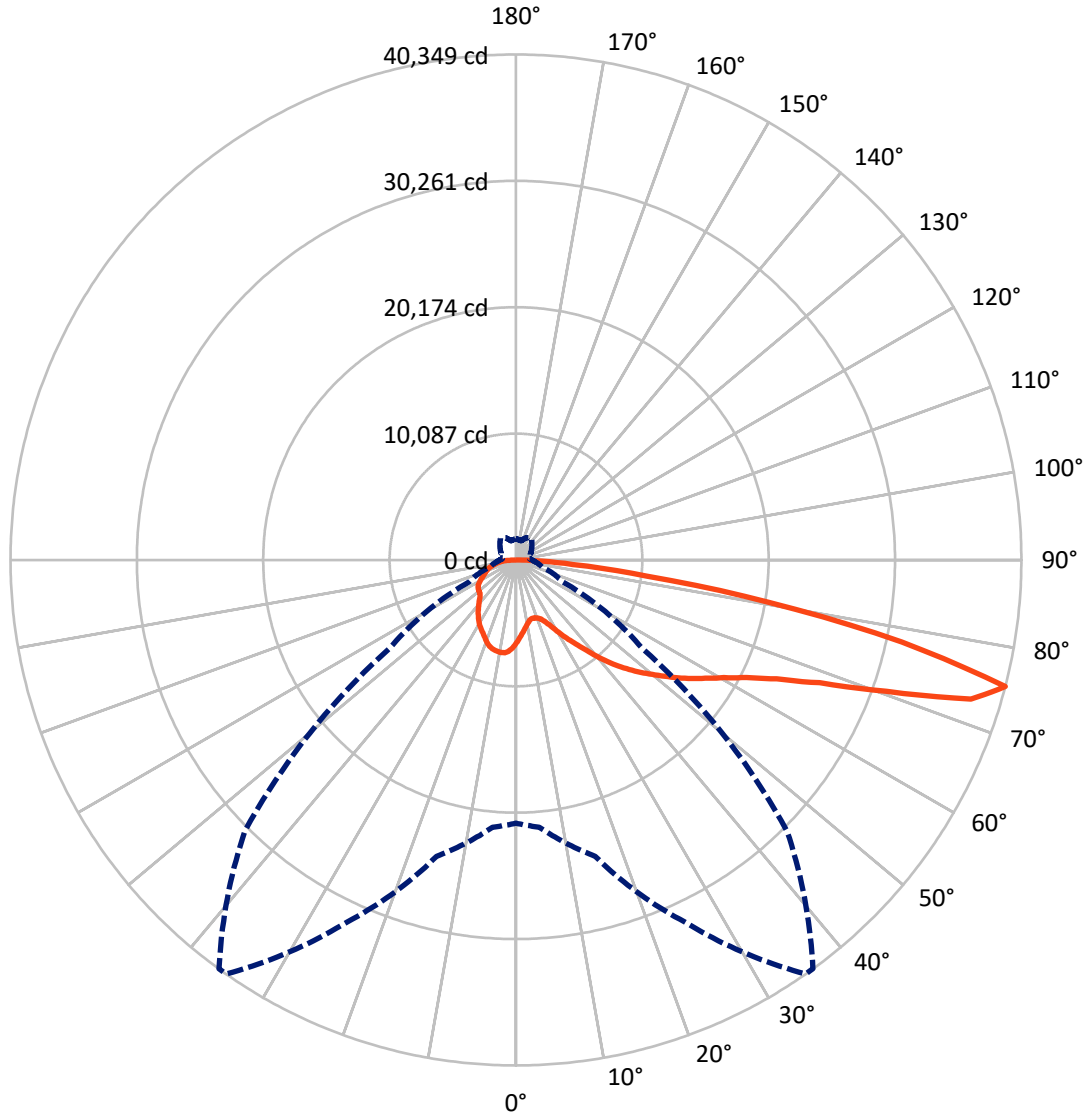
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11780.7	0.0	11780.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	37723.3	0.0	37723.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	49504.0	0.0	49504.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.6	1.3
10°-20°	1801.6	3.6
20°-30°	3025.3	6.1
30°-40°	4701.7	9.5
40°-50°	6978.6	14.1
50°-60°	9634.4	19.5
60°-70°	11688.7	23.6
70°-80°	9659.8	19.5
80°-90°	1389.4	2.8
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°	49504.0	100.0
0°-180°	49504.0	100.0

**Coefficient of Utilization**



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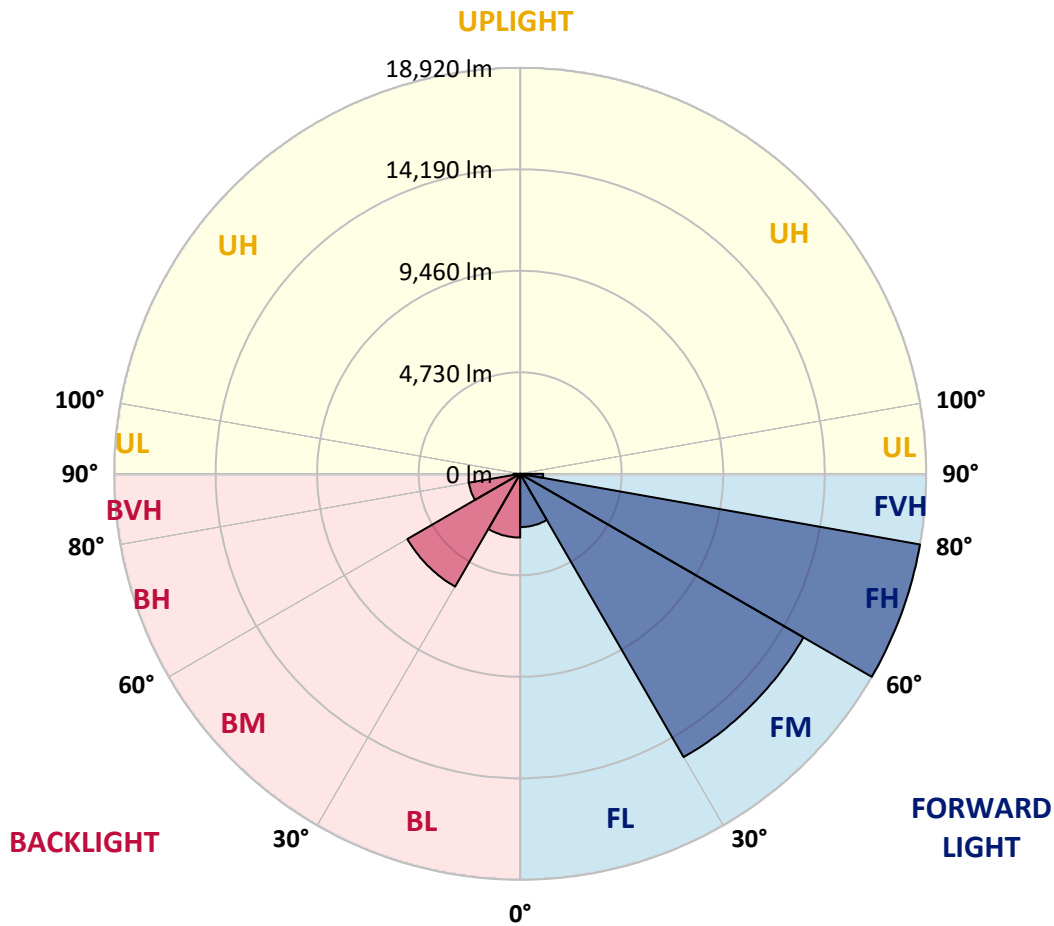
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.5	5.0			
FM (30°-60°)	15244.6	30.8			
FH (60°-80°)	18919.7	38.2			G5
FVH (80°-90°)	1076.5	2.2			G5
BL (0°-30°)	2968.9	6.0	B4/5000		
BM (30°-60°)	6070.1	12.3	B4/8500		
BH (60°-80°)	2428.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	312.9	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7
2.5°	6082.9	6120.4	6136.4	6128.4	6168.6	6163.2	6219.4	6289.0	6385.3	6479.0
5°	5614.6	5654.7	5689.5	5721.6	5799.2	5823.3	5911.6	6045.5	6222.1	6401.4
7.5°	5178.4	5213.2	5266.7	5325.6	5456.7	5480.8	5628.0	5836.7	6082.9	6345.2
10°	4822.4	4857.2	4913.4	4980.3	5143.6	5173.0	5360.4	5638.7	5959.8	6291.7
12.5°	4669.9	4680.6	4712.7	4779.6	4921.5	4940.2	5146.3	5464.7	5839.4	6251.5
15°	4661.9	4683.3	4686.0	4720.8	4838.5	4846.5	5036.5	5352.3	5764.5	6243.5
17.5°	4742.2	4758.2	4734.1	4755.5	4854.6	4867.9	5017.8	5298.8	5740.4	6278.3
20°	4956.3	4969.6	4897.4	4867.9	4940.2	4950.9	5098.1	5333.6	5764.5	6350.5
22.5°	5411.2	5419.2	5242.6	5122.2	5127.5	5132.9	5261.3	5475.4	5858.1	6481.7
25°	6120.4	6115.0	5834.0	5601.2	5467.4	5438.0	5523.6	5705.6	6016.0	6655.6
27.5°	6950.0	6909.9	6628.9	6281.0	5989.3	5946.4	5927.7	6005.3	6240.8	6885.8
30°	7886.7	7849.2	7546.8	7091.8	6687.7	6618.2	6441.5	6401.4	6575.3	7198.9
32.5°	8914.3	8890.2	8528.9	7977.6	7437.1	7356.8	7059.7	6952.7	7089.2	7672.6
35°	9776.0	9754.6	9454.9	8887.5	8226.5	8127.5	7825.1	7704.7	7774.3	8280.0
37.5°	10554.8	10544.1	10287.2	9840.3	9157.8	9037.4	8697.5	8657.4	8644.0	9080.2
40°	11277.4	11250.6	10983.0	10747.5	10241.7	10132.0	9832.2	9797.4	9695.7	10065.1
42.5°	12077.5	12007.9	11619.9	11510.2	11373.7	11282.7	11103.4	11108.8	10884.0	11175.7
45°	12730.5	12690.4	12291.6	12227.4	12374.6	12337.1	12492.3	12532.5	12096.3	12339.8
47.5°	13431.7	13394.2	13057.0	13011.5	13410.3	13421.0	13969.6	13983.0	13279.1	13549.4
50°	14296.1	14242.5	13908.0	13964.2	14411.1	14451.3	15454.8	15363.9	14368.3	14777.8
52.5°	14866.1	14898.2	14825.9	14916.9	15527.1	15564.6	16916.0	16683.2	15446.8	15990.1
55°	15286.2	15350.5	15575.3	15784.0	16704.6	16742.1	18294.3	17938.3	16340.7	17114.1
57.5°	15826.8	15735.8	16156.0	16562.8	17823.2	17922.3	19635.0	19147.9	17132.8	18082.8
60°	16602.9	16538.7	16865.2	17467.3	19075.7	19233.6	21053.4	20237.1	17713.5	18850.9
62.5°	18176.5	18015.9	18066.8	18599.3	20654.6	20863.4	22653.7	21187.2	18002.6	19150.6
65°	20528.8	20253.2	19996.3	20365.6	22878.5	23084.6	24460.1	21933.8	17895.5	18569.9
67.5°	23491.4	23218.4	22902.6	23250.5	26154.1	26317.4	26689.4	22354.0	17052.5	16332.6
70°	25934.7	25833.0	26210.3	27642.1	31386.0	31391.4	29547.5	22006.1	14743.0	11579.8
72.5°	25610.9	25549.3	27537.7	31964.1	37980.1	37838.3	32253.1	19372.7	9931.2	5223.9
75°	21010.6	21409.3	24489.6	31886.5	40348.5	40329.8	30596.6	12315.7	4107.9	2165.0
77.5°	11266.6	11898.2	15899.1	23542.2	31498.4	31972.1	21511.0	4308.6	1763.6	1386.3
80°	3674.4	4225.7	6337.2	11986.5	20467.3	20379.0	9219.4	1691.3	1206.9	982.2
82.5°	1560.2	1624.4	2831.4	5660.1	10503.9	10340.7	2935.8	971.4	848.3	671.7
85°	610.2	682.4	1249.8	2617.3	4549.5	4450.5	1059.8	481.7	543.3	438.9
87.5°	200.7	243.5	446.9	896.5	1415.7	1364.8	259.6	165.9	235.5	200.7
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°
6596.7	0°	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7	6596.7
6615.5	2.5°	6652.9	6695.8	6746.6	6821.5	6885.8	6939.3	6995.5	7030.3	7043.7	7083.8
6626.2	5°	6701.1	6794.8	6920.6	7043.7	7164.1	7236.3	7300.6	7332.7	7362.1	7383.5
6655.6	7.5°	6781.4	6901.8	7099.9	7260.4	7362.1	7421.0	7463.8	7453.1	7463.8	7469.2
6687.7	10°	6851.0	7019.6	7255.1	7407.6	7485.2	7487.9	7477.2	7439.7	7421.0	7423.7
6735.9	12.5°	6933.9	7121.3	7375.5	7504.0	7525.4	7466.5	7421.0	7356.8	7332.7	7322.0
6808.2	15°	7046.3	7260.4	7506.6	7554.8	7501.3	7426.4	7348.7	7244.4	7190.9	7148.0
6931.3	17.5°	7182.8	7418.3	7608.3	7573.5	7458.5	7335.4	7209.6	7051.7	6942.0	6896.5
7099.9	20°	7372.8	7584.2	7685.9	7533.4	7359.4	7172.1	6958.0	6765.3	6663.6	6618.2
7314.0	22.5°	7603.0	7806.4	7760.9	7463.8	7217.6	6917.9	6650.3	6508.4	6457.6	6425.5
7589.6	25°	7878.6	8052.6	7814.4	7362.1	6984.8	6580.7	6374.6	6329.1	6305.0	6281.0
7926.8	27.5°	8237.2	8330.9	7854.5	7212.3	6620.8	6222.1	6147.1	6155.2	6147.1	6107.0
8395.1	30°	8710.9	8692.2	7892.0	6968.7	6203.3	5898.3	5903.6	5938.4	5943.8	5917.0
9048.1	32.5°	9334.5	9144.5	7910.7	6652.9	5804.6	5614.6	5619.9	5657.4	5684.2	5638.7
9901.8	35°	10089.1	9671.7	7881.3	6256.9	5496.8	5344.3	5304.2	5314.9	5322.9	5280.1
10937.5	37.5°	10969.6	10263.1	7750.2	5818.0	5242.6	5079.4	4993.7	4921.5	4878.6	4838.5
12109.6	40°	11935.7	10908.0	7509.3	5389.8	4958.9	4798.4	4669.9	4533.4	4388.9	4335.4
13351.4	42.5°	12947.3	11571.7	7217.6	4980.3	4632.4	4501.3	4364.8	4166.8	3950.0	3840.3
14641.3	45°	13996.3	12251.5	6931.3	4576.2	4297.9	4241.7	4083.8	3845.6	3610.1	3471.0
15933.9	47.5°	15024.0	12893.8	6511.1	4169.5	3984.8	4046.4	3923.3	3703.8	3441.5	3222.1
17215.8	50°	16006.1	13495.9	5823.3	3757.3	3730.6	3987.5	3869.7	3553.9	3254.2	2973.2
18473.6	52.5°	16980.3	13983.0	4942.9	3382.7	3594.1	3971.4	3800.2	3452.3	3085.6	2791.2
19656.4	55°	17807.2	14234.5	4094.5	3061.5	3396.1	3834.9	3717.2	3331.8	2847.4	2534.3
20467.3	57.5°	18278.2	14031.1	3388.0	2745.7	3123.1	3610.1	3575.4	3074.9	2563.8	2322.9
20625.2	60°	18074.8	13206.9	2810.0	2470.1	2863.5	3366.6	3329.1	2820.7	2347.0	2119.5
19779.5	62.5°	16953.5	11636.0	2352.3	2229.2	2628.0	3117.7	3082.9	2625.3	2181.1	1961.6
17534.2	65°	14694.8	9465.6	1996.4	2028.5	2389.8	2818.0	2868.8	2462.1	2049.9	1835.8
13565.5	67.5°	11207.8	6856.3	1718.1	1854.6	2157.0	2523.6	2670.8	2344.3	1940.2	1736.8
7849.2	70°	6388.0	3893.8	1482.6	1686.0	1950.9	2250.7	2518.3	2250.7	1822.5	1653.9
2941.1	72.5°	2421.9	1787.7	1281.9	1517.4	1752.9	2020.5	2349.7	2103.5	1686.0	1560.2
1520.1	75°	1292.6	1089.2	1078.5	1319.3	1525.4	1795.7	2138.3	1959.0	1584.3	1648.5
1051.7	77.5°	880.5	770.7	901.9	1129.3	1276.5	1546.8	1913.5	1739.5	1372.9	1367.5
727.9	80°	610.2	545.9	733.3	909.9	987.5	1300.6	1669.9	1493.3	1118.6	1043.7
449.6	82.5°	366.6	355.9	548.6	679.7	698.5	1003.6	1383.6	1252.4	915.2	797.5
267.6	85°	200.7	211.4	350.6	398.7	406.8	701.2	1083.8	968.8	703.8	591.4
96.3	87.5°	56.2	72.3	128.5	157.9	195.4	364.0	645.0	575.4	353.3	246.2
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>
6596.7
7081.1
7388.9
7477.2
7429.0
7316.6
7161.4
6899.1
6612.8
6430.8
6281.0
6115.0
5930.4
5660.1
5309.5
4865.3
4359.5
3853.7
3460.3
3198.0
2949.1
2759.1
2507.6
2290.8
2087.4
1926.8
1801.1
1704.7
1632.5
1538.8
<i>1702.0</i>
1260.5
998.2
802.8
596.8
246.2
0.0

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