

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: P943379

Luminaire Tested: **GALN-SB7D-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943379  
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-SB7D-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

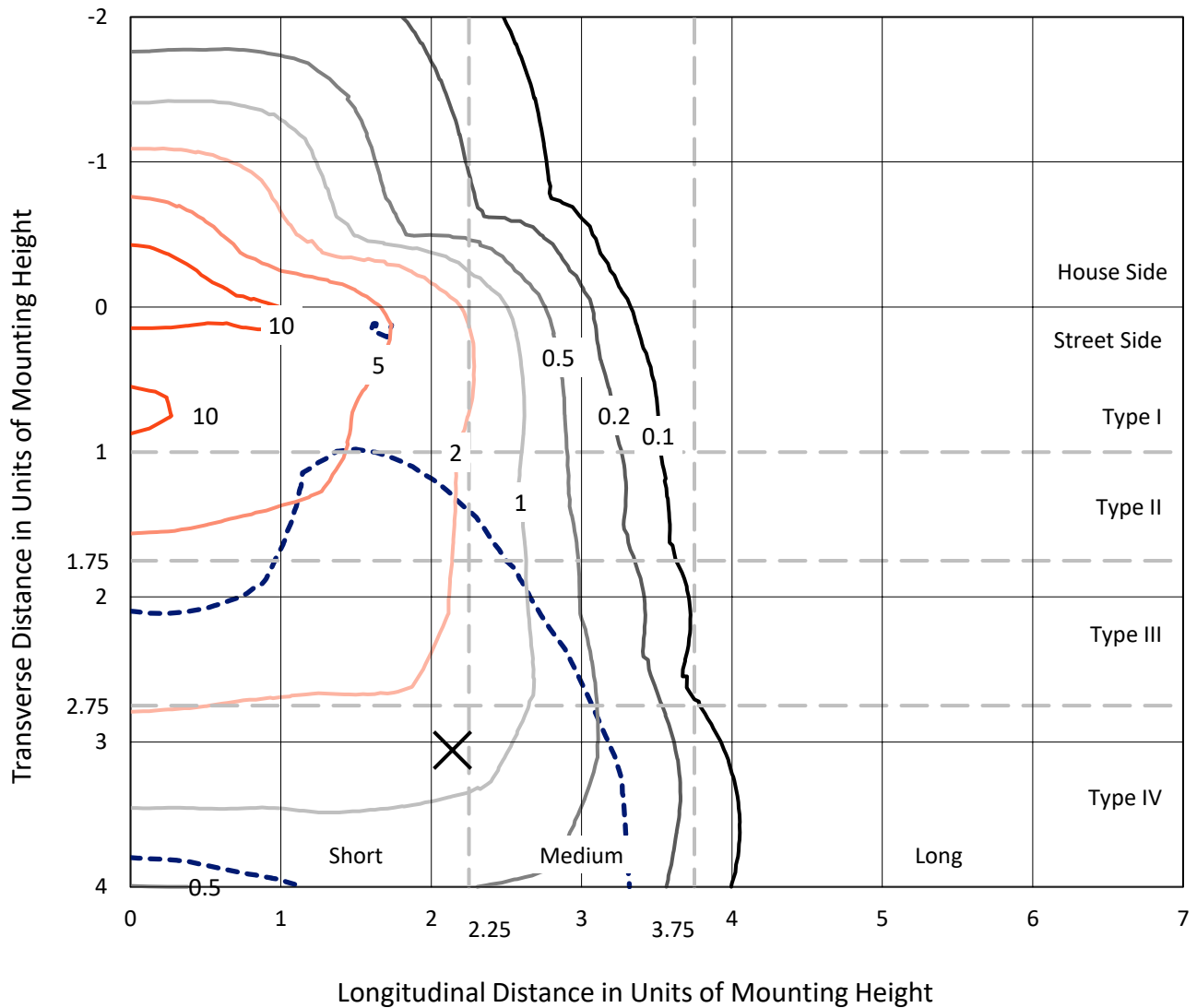
Lumens per Lamp: N/A  
Luminaire Lumens: 62198 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

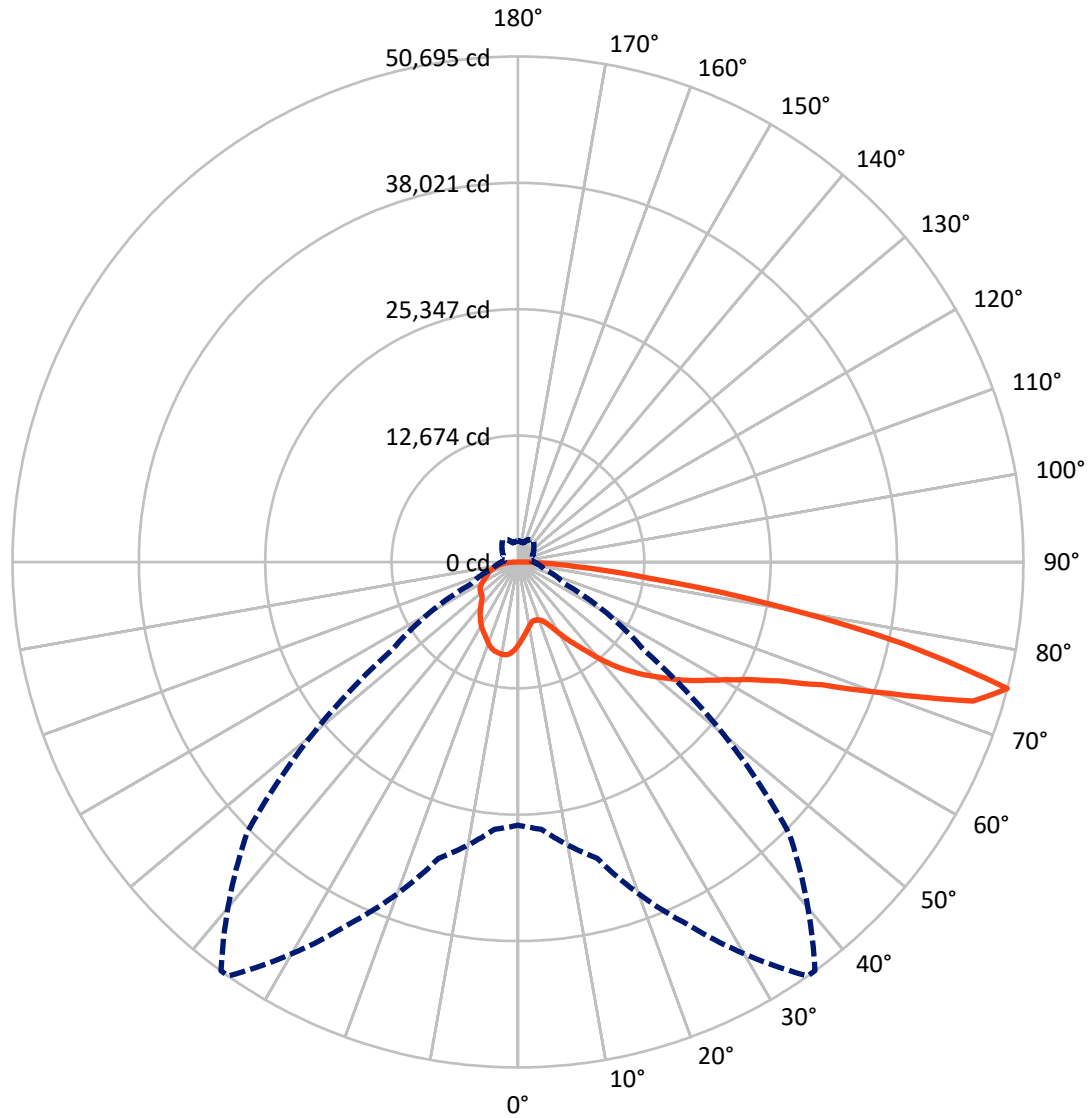
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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	14801.6	0.0	14801.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	47396.4	0.0	47396.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	62198.0	0.0	62198.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.7	1.3
10°-20°	2263.5	3.6
20°-30°	3801.0	6.1
30°-40°	5907.3	9.5
40°-50°	8768.1	14.1
50°-60°	12104.9	19.5
60°-70°	14686.0	23.6
70°-80°	12136.8	19.5
80°-90°	1745.6	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°	62198.0	100.0
0°-180°	62198.0	100.0

**Coefficient of Utilization**



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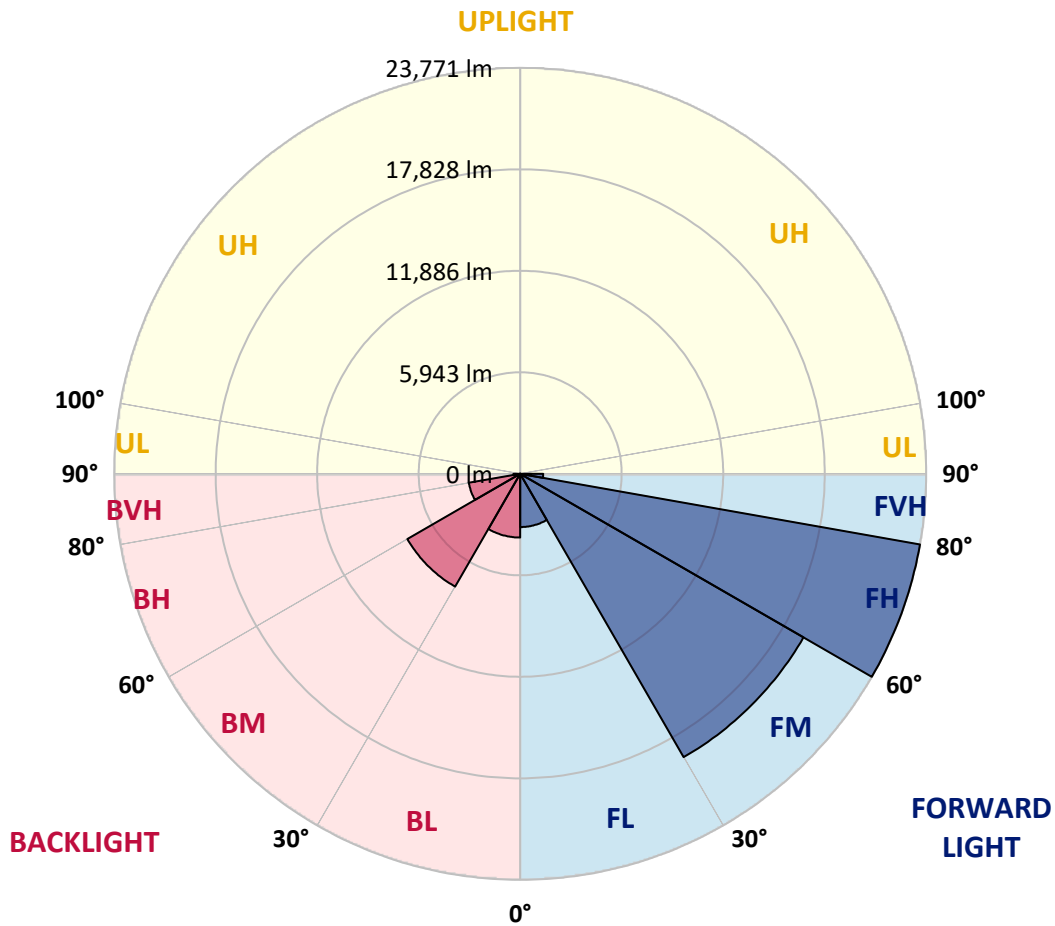
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3119.1	5.0			
FM (30°-60°)	19153.6	30.8			
FH (60°-80°)	23771.1	38.2			G5
FVH (80°-90°)	1352.6	2.2			G5
BL (0°-30°)	3730.2	6.0	B4/5000		
BM (30°-60°)	7626.7	12.3	B4/8500		
BH (60°-80°)	3051.6	4.9	B4/5000		G4/5000
BVH (80°-90°)	393.1	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°	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3
2.5°	7642.7	7689.8	7710.0	7699.9	7750.3	7743.6	7814.2	7901.6	8022.7	8140.4
5°	7054.3	7104.7	7148.5	7188.8	7286.3	7316.6	7427.5	7595.7	7817.6	8042.8
7.5°	6506.2	6549.9	6617.2	6691.2	6855.9	6886.2	7071.1	7333.4	7642.7	7972.2
10°	6059.0	6102.7	6173.4	6257.4	6462.5	6499.5	6734.9	7084.6	7488.1	7905.0
12.5°	5867.4	5880.8	5921.2	6005.2	6183.4	6207.0	6465.9	6866.0	7336.7	7854.6
15°	5857.3	5884.2	5887.6	5931.3	6079.2	6089.3	6328.0	6724.8	7242.6	7844.5
17.5°	5958.2	5978.3	5948.1	5975.0	6099.4	6116.2	6304.5	6657.5	7212.3	7888.2
20°	6227.2	6244.0	6153.2	6116.2	6207.0	6220.4	6405.4	6701.3	7242.6	7979.0
22.5°	6798.8	6808.9	6586.9	6435.6	6442.3	6449.1	6610.5	6879.5	7360.3	8143.7
25°	7689.8	7683.1	7330.0	7037.5	6869.4	6832.4	6940.0	7168.6	7558.7	8362.3
27.5°	8732.1	8681.7	8328.7	7891.5	7525.0	7471.2	7447.7	7545.2	7841.1	8651.4
30°	9909.0	9861.9	9482.0	8910.3	8402.6	8315.2	8093.3	8042.8	8261.4	9044.8
32.5°	11200.1	11169.9	10716.0	10023.3	9344.1	9243.2	8870.0	8735.5	8907.0	9640.0
35°	12282.8	12255.9	11879.3	11166.5	10336.0	10211.6	9831.6	9680.3	9767.8	10403.3
37.5°	13261.3	13247.8	12925.0	12363.5	11506.1	11354.8	10927.8	10877.3	10860.5	11408.6
40°	14169.1	14135.5	13799.3	13503.4	12867.9	12730.0	12353.4	12309.7	12182.0	12646.0
42.5°	15174.5	15087.1	14599.5	14461.7	14290.2	14175.9	13950.6	13957.3	13674.9	14041.4
45°	15994.9	15944.5	15443.5	15362.8	15547.7	15500.6	15695.7	15746.1	15198.0	15504.0
47.5°	16875.9	16828.8	16405.1	16348.0	16849.0	16862.4	17551.7	17568.5	16684.2	17023.8
50°	17961.9	17894.7	17474.4	17545.0	18106.5	18156.9	19417.8	19303.5	18052.7	18567.1
52.5°	18678.1	18718.5	18627.7	18742.0	19508.6	19555.7	21253.7	20961.2	19407.7	20090.3
55°	19206.0	19286.7	19569.1	19831.4	20988.1	21035.1	22985.3	22538.1	20530.8	21502.5
57.5°	19885.2	19770.9	20298.8	20809.9	22393.6	22518.0	24669.9	24057.9	21526.1	22719.7
60°	20860.3	20779.6	21189.8	21946.4	23967.2	24165.5	26452.0	25426.4	22255.7	23684.7
62.5°	22837.4	22635.6	22699.5	23368.6	25951.0	26213.2	28462.7	26620.1	22618.8	24061.3
65°	25792.9	25446.6	25123.8	25587.8	28745.1	29004.0	30732.3	27558.2	22484.3	23331.7
67.5°	29515.1	29172.1	28775.4	29212.5	32860.7	33065.8	33533.2	28086.1	21425.2	20520.7
70°	32585.0	32457.2	32931.3	34730.2	39434.2	39440.9	37124.2	27649.0	18523.4	14549.1
72.5°	32178.1	32100.8	34599.0	40160.4	47719.1	47540.9	40523.6	24340.4	12477.8	6563.4
75°	26398.2	26899.2	30769.3	40062.9	50694.8	50671.3	38442.3	15473.7	5161.3	2720.2
77.5°	14155.7	14949.2	19976.0	29579.0	39575.4	40170.5	27026.9	5413.5	2215.8	1741.7
80°	4616.6	5309.2	7962.2	15060.2	25715.6	25604.6	11583.5	2125.0	1516.4	1234.0
82.5°	1960.3	2041.0	3557.4	7111.5	13197.4	12992.3	3688.5	1220.5	1065.9	844.0
85°	766.6	857.4	1570.2	3288.4	5716.1	5591.7	1331.5	605.2	682.6	551.4
87.5°	252.2	306.0	561.5	1126.4	1778.7	1714.8	326.2	208.5	295.9	252.2
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°
8288.3	0°	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3	8288.3
8311.8	2.5°	8358.9	8412.7	8476.6	8570.7	8651.4	8718.7	8789.3	8833.0	8849.8	8900.3
8325.3	5°	8419.4	8537.1	8695.2	8849.8	9001.1	9091.9	9172.6	9213.0	9249.9	9276.8
8362.3	7.5°	8520.3	8671.6	8920.4	9122.2	9249.9	9323.9	9377.7	9364.3	9377.7	9384.4
8402.6	10°	8607.7	8819.6	9115.5	9307.1	9404.6	9408.0	9394.5	9347.5	9323.9	9327.3
8463.1	12.5°	8712.0	8947.3	9266.8	9428.2	9455.1	9381.1	9323.9	9243.2	9213.0	9199.5
8553.9	15°	8853.2	9122.2	9431.5	9492.0	9424.8	9330.6	9233.1	9102.0	9034.8	8981.0
8708.6	17.5°	9024.7	9320.6	9559.3	9515.6	9371.0	9216.3	9058.3	8859.9	8722.1	8664.9
8920.4	20°	9263.4	9529.0	9656.8	9465.1	9246.6	9011.2	8742.2	8500.1	8372.4	8315.2
9189.4	22.5°	9552.6	9808.1	9750.9	9377.7	9068.4	8691.8	8355.6	8177.3	8113.5	8073.1
9535.8	25°	9898.9	10117.4	9818.2	9249.9	8775.9	8268.1	8009.2	7952.1	7921.8	7891.5
9959.4	27.5°	10349.5	10467.1	9868.6	9061.7	8318.6	7817.6	7723.4	7733.5	7723.4	7673.0
10547.8	30°	10944.6	10921.1	9915.7	8755.7	7794.0	7410.7	7417.4	7461.2	7467.9	7434.3
11368.3	32.5°	11728.0	11489.3	9939.2	8358.9	7293.0	7054.3	7061.0	7108.1	7141.7	7084.6
12440.9	35°	12676.2	12151.7	9902.3	7861.3	6906.4	6714.7	6664.3	6677.7	6687.8	6634.0
13742.1	37.5°	13782.5	12894.8	9737.5	7309.8	6586.9	6381.8	6274.2	6183.4	6129.6	6079.2
15214.8	40°	14996.3	13705.1	9434.9	6771.9	6230.5	6028.8	5867.4	5695.9	5514.3	5447.1
16775.0	42.5°	16267.3	14539.0	9068.4	6257.4	5820.3	5655.5	5484.1	5235.2	4962.9	4825.0
18395.7	45°	17585.3	15393.0	8708.6	5749.7	5400.0	5329.4	5131.0	4831.8	4535.9	4361.0
20019.7	47.5°	18876.5	16200.0	8180.7	5238.6	5006.6	5083.9	4929.3	4653.6	4324.0	4048.3
21630.3	50°	20110.5	16956.6	7316.6	4720.8	4687.2	5010.0	4862.0	4465.3	4088.7	3735.6
23210.6	52.5°	21334.4	17568.5	6210.3	4250.1	4515.7	4989.8	4774.6	4337.5	3876.8	3507.0
24696.8	55°	22373.4	17884.6	5144.5	3846.6	4266.9	4818.3	4670.4	4186.2	3577.6	3184.2
25715.6	57.5°	22965.2	17629.0	4256.8	3449.8	3923.9	4535.9	4492.2	3863.4	3221.2	2918.6
25914.0	60°	22709.6	16593.4	3530.5	3103.5	3597.8	4229.9	4182.8	3544.0	2948.8	2663.0
24851.5	62.5°	21300.8	14619.7	2955.5	2800.9	3301.9	3917.2	3873.5	3298.5	2740.4	2464.6
22030.4	65°	18462.9	11892.8	2508.3	2548.7	3002.6	3540.6	3604.5	3093.4	2575.6	2306.6
17044.0	67.5°	14081.7	8614.5	2158.7	2330.1	2710.1	3170.7	3355.7	2945.5	2437.7	2182.2
9861.9	70°	8026.0	4892.3	1862.8	2118.3	2451.2	2827.8	3164.0	2827.8	2289.8	2078.0
3695.3	72.5°	3043.0	2246.1	1610.6	1906.5	2202.4	2538.6	2952.2	2642.8	2118.3	1960.3
1909.8	75°	1624.0	1368.5	1355.0	1657.7	1916.6	2256.2	2686.6	2461.3	1990.5	2071.2
1321.4	77.5°	1106.2	968.4	1133.1	1418.9	1603.9	1943.5	2404.1	2185.6	1724.9	1718.2
914.6	80°	766.6	685.9	921.3	1143.2	1240.7	1634.1	2098.1	1876.2	1405.5	1311.3
564.9	82.5°	460.6	447.2	689.3	854.0	877.6	1260.9	1738.4	1573.6	1149.9	1002.0
336.2	85°	252.2	265.6	440.5	501.0	511.1	880.9	1361.8	1217.2	884.3	743.1
121.0	87.5°	70.6	90.8	161.4	198.4	245.5	457.3	810.3	722.9	443.8	309.3
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>
8288.3
8896.9
9283.6
9394.5
9334.0
9192.8
8997.8
8668.3
8308.5
8079.8
7891.5
7683.1
7451.1
7111.5
6671.0
6112.8
5477.3
4841.8
4347.6
4018.1
3705.4
3466.6
3150.6
2878.2
2622.7
2420.9
2262.9
2141.8
2051.1
1933.4
2138.5
1583.7
1254.2
1008.7
749.8
309.3
0.0

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