

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: P954636

Luminaire Tested: **GALN-SB7D-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62806 lumens
Efficiency: N/A
Efficacy: 122.5 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

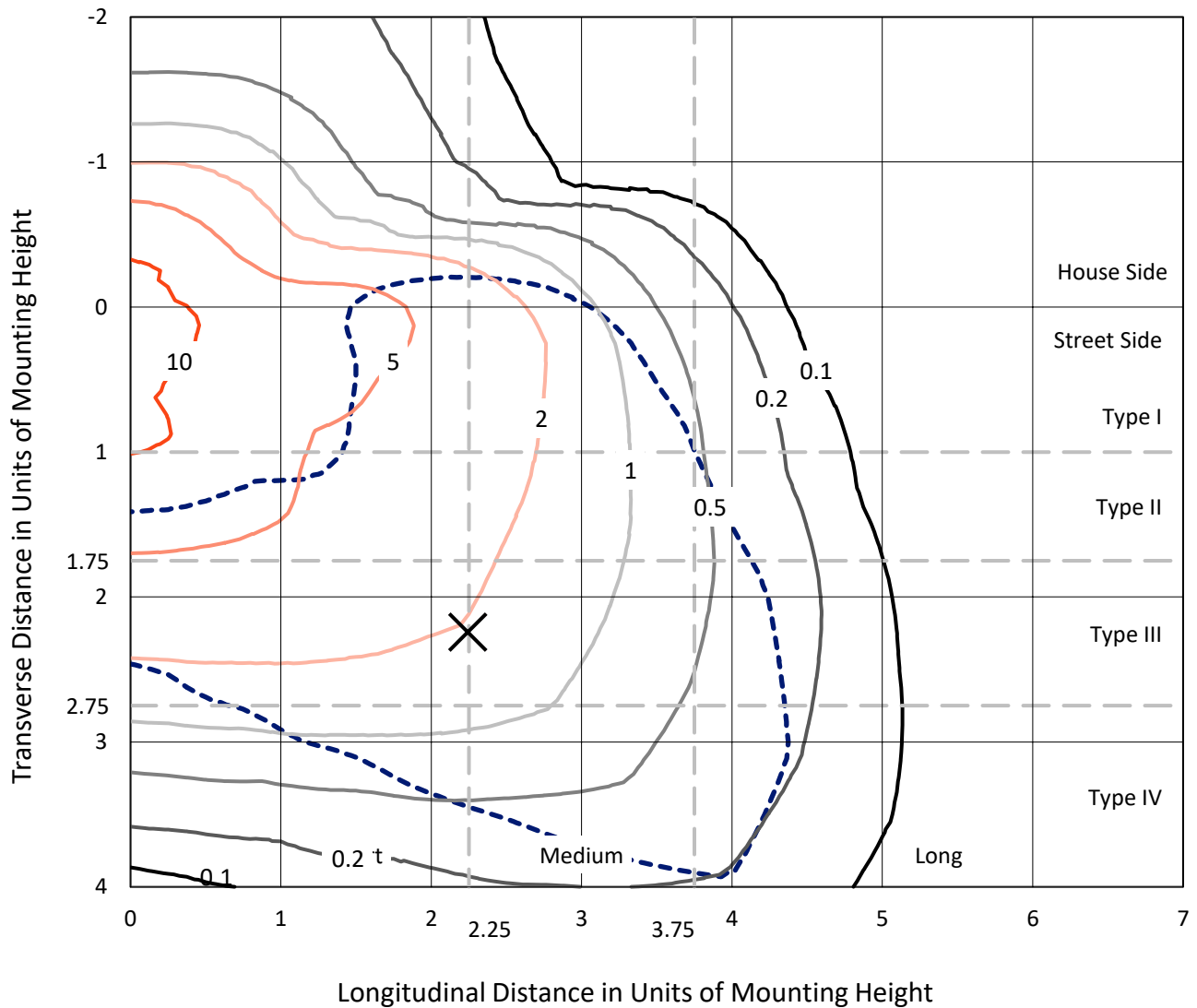
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

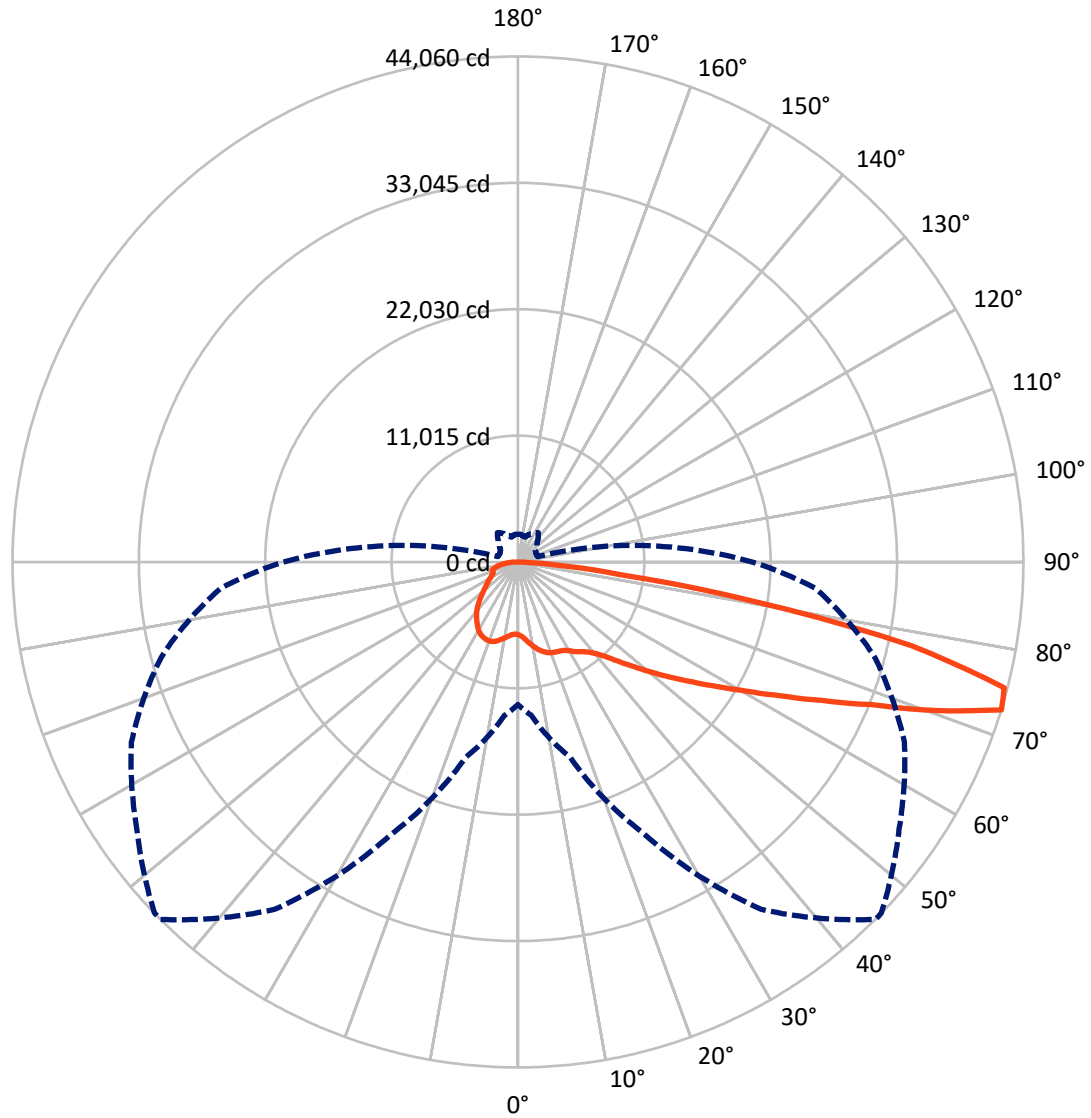
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14198.3	0.0	14198.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	48607.7	0.0	48607.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	62806.0	0.0	62806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.9	1.0
10°-20°	2150.1	3.4
20°-30°	3740.2	6.0
30°-40°	5361.8	8.5
40°-50°	7549.7	12.0
50°-60°	11563.9	18.4
60°-70°	16752.0	26.7
70°-80°	13377.5	21.3
80°-90°	1666.1	2.7
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°	62806.0	100.0
0°-180°	62806.0	100.0

Coefficient of Utilization



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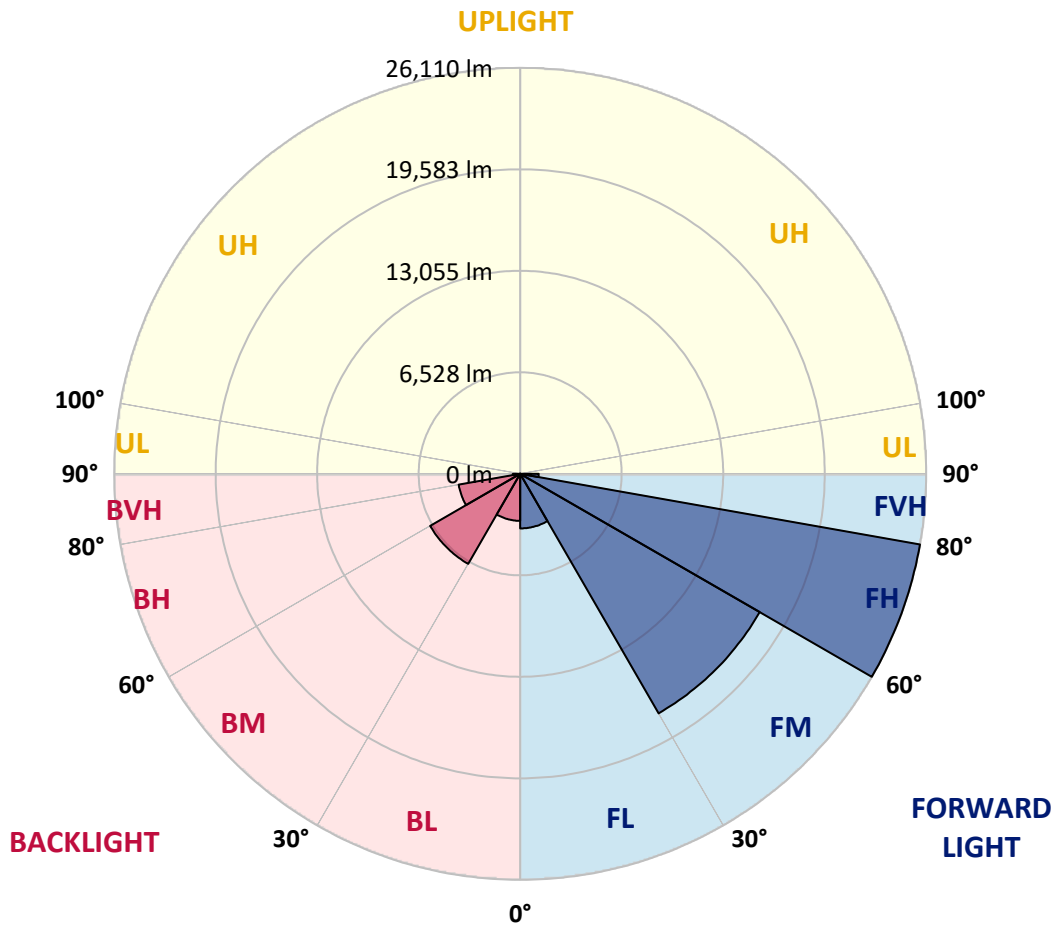
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3512.2	5.6			
FM (30°-60°)	17789.9	28.3			
FH (60°-80°)	26110.3	41.6			G5
FVH (80°-90°)	1195.3	1.9			G5
BL (0°-30°)	3022.9	4.8	B4/5000		
BM (30°-60°)	6685.4	10.6	B4/8500		
BH (60°-80°)	4019.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	470.8	0.7			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°	45°	46°	55°	65°	75°
0°	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9
2.5°	6584.0	6627.1	6587.4	6551.0	6534.4	6491.4	6488.1	6461.6	6445.1	6398.8
5°	7043.9	7100.2	7034.0	6961.2	6895.1	6789.2	6775.9	6699.8	6613.8	6514.6
7.5°	7563.4	7613.0	7536.9	7427.7	7311.9	7136.6	7133.3	6994.3	6858.7	6689.9
10°	8016.7	8082.8	7980.3	7831.4	7685.8	7487.3	7464.1	7305.3	7133.3	6914.9
12.5°	8417.0	8463.3	8364.1	8182.1	8013.3	7814.8	7785.1	7609.7	7417.8	7169.7
15°	8734.6	8794.2	8661.8	8466.6	8288.0	8092.8	8066.3	7907.5	7715.6	7454.2
17.5°	8943.1	8992.7	8857.0	8638.7	8466.6	8304.5	8284.6	8152.3	7983.6	7718.9
20°	9022.5	9075.4	8933.1	8711.5	8552.6	8426.9	8417.0	8321.0	8205.2	7963.7
22.5°	9101.9	9151.5	8966.2	8734.6	8595.7	8516.2	8512.9	8450.1	8403.8	8205.2
25°	9422.8	9436.0	9187.9	8853.7	8655.2	8585.7	8582.4	8579.1	8599.0	8443.5
27.5°	9700.7	9697.4	9485.7	9171.3	8863.6	8718.1	8714.8	8747.8	8810.7	8681.7
30°	10107.7	10071.3	9819.8	9492.3	9211.0	8986.1	8966.2	8936.4	8986.1	8883.5
32.5°	10971.2	10855.4	10448.4	9866.1	9498.9	9326.8	9300.4	9115.1	9134.9	9072.1
35°	12208.6	12056.4	11513.8	10574.2	9856.2	9611.4	9598.1	9363.2	9323.5	9267.3
37.5°	13680.9	13492.3	12860.4	11599.8	10471.6	9942.2	9922.4	9710.6	9548.5	9489.0
40°	15159.8	14921.6	14398.9	12850.5	11378.2	10494.8	10431.9	10111.0	9925.7	9826.4
42.5°	16595.8	16397.3	15950.6	14253.3	12496.5	11302.1	11163.1	10613.9	10474.9	10382.3
45°	17866.3	17687.6	17360.0	15752.1	13806.6	12400.5	12264.9	11368.2	11325.2	11325.2
47.5°	18898.5	18858.8	18511.4	17280.6	15351.7	13651.1	13416.2	12417.0	12532.8	12711.5
50°	20043.3	19934.1	19563.5	18786.0	17168.1	15083.8	14891.9	13704.1	14137.5	14627.2
52.5°	21095.4	21155.0	20741.4	20354.3	19219.5	16681.8	16344.3	15222.7	16159.0	16969.6
55°	22177.3	22180.6	22064.8	22011.9	21370.0	18448.6	18078.0	17049.0	18537.9	19543.7
57.5°	23193.0	23199.7	23371.7	23838.2	23864.7	20486.6	20066.4	19292.2	21181.4	22207.1
60°	24099.6	24145.9	24615.7	25707.6	26058.3	22822.5	22425.5	21942.4	23914.3	24946.6
62.5°	24404.0	24572.7	25618.2	27169.9	28225.4	25687.7	25297.3	25009.4	26786.1	27745.6
65°	23887.8	24274.9	26296.5	28377.6	30455.3	29092.2	28705.1	28390.8	29770.5	30673.7
67.5°	22620.7	23120.3	26256.8	29644.7	33161.8	33188.2	32827.6	32089.8	32969.9	33317.3
70°	19282.3	20030.1	23944.1	30117.9	36268.5	38789.6	38442.2	36543.1	36162.6	34481.9
72.5°	12423.7	13429.5	17631.3	26223.7	36960.0	44060.2	44040.3	40563.0	37171.7	32218.8
75°	4532.7	5148.1	8192.0	16460.1	31024.4	43792.2	43921.2	39874.8	33932.6	24887.0
77.5°	1651.0	1806.5	2673.3	6326.0	19080.5	35137.0	35405.0	31878.0	24152.5	12489.8
80°	866.8	952.9	1369.7	2455.0	8175.5	20867.1	21287.3	18944.8	11351.7	3761.8
82.5°	479.7	519.4	767.6	1333.4	3682.4	8923.2	9174.7	7484.0	3993.4	1594.7
85°	258.1	274.6	360.6	727.9	1799.9	3093.5	3163.0	2236.6	1591.4	936.3
87.5°	76.1	92.6	119.1	231.6	704.7	694.8	711.3	443.3	628.6	473.1
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°
6335.9	0°	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9	6335.9
6385.5	2.5°	6365.7	6355.8	6319.4	6302.8	6283.0	6279.7	6296.2	6299.5	6302.8	6306.1
6458.3	5°	6425.2	6392.1	6359.1	6339.2	6345.8	6349.1	6382.2	6405.4	6421.9	6435.2
6594.0	7.5°	6541.0	6514.6	6458.3	6455.0	6464.9	6494.7	6537.7	6590.7	6620.4	6643.6
6769.3	10°	6713.1	6663.5	6597.3	6607.2	6627.1	6670.1	6759.4	6802.4	6852.0	6895.1
6984.4	12.5°	6888.4	6845.4	6769.3	6775.9	6809.0	6885.1	6971.1	7024.1	7057.2	7090.3
7216.0	15°	7116.7	7040.6	6957.9	6957.9	7017.5	7100.2	7139.9	7182.9	7202.7	7239.1
7464.1	17.5°	7351.6	7252.4	7143.2	7136.6	7209.4	7249.1	7272.2	7278.8	7285.5	7325.2
7705.6	20°	7586.5	7477.4	7321.9	7308.6	7325.2	7318.5	7315.2	7308.6	7318.5	7368.2
7953.8	22.5°	7818.1	7692.4	7477.4	7417.8	7371.5	7308.6	7305.3	7302.0	7308.6	7358.2
8221.8	25°	8089.4	7937.2	7649.4	7470.7	7315.2	7229.2	7239.1	7242.4	7249.1	7288.8
8499.7	27.5°	8383.9	8215.2	7808.2	7454.2	7173.0	7113.4	7096.9	7106.8	7130.0	7192.8
8777.6	30°	8678.4	8479.9	7953.8	7388.0	6994.3	6911.6	6858.7	6881.8	6954.6	7017.5
9019.1	32.5°	8946.4	8747.8	8069.6	7242.4	6766.0	6637.0	6567.5	6597.3	6670.1	6693.2
9287.1	35°	9260.7	9035.7	8119.2	7010.9	6517.9	6319.4	6226.7	6183.7	6220.1	6196.9
9601.5	37.5°	9611.4	9376.5	8112.6	6706.5	6226.7	5998.4	5869.4	5707.3	5631.2	5551.8
10064.7	40°	10130.8	9793.4	8033.2	6339.2	5866.1	5657.6	5426.0	5151.4	4979.4	4823.9
10812.4	42.5°	10838.9	10372.4	7887.6	5935.6	5459.1	5263.9	4949.6	4628.7	4357.4	4099.3
11947.2	45°	11894.3	11130.0	7705.6	5505.5	5019.1	4827.2	4486.4	4125.8	3818.1	3487.2
13558.5	47.5°	13416.2	12149.1	7533.6	5015.8	4555.9	4380.5	4072.8	3738.7	3374.7	3053.8
15887.7	50°	15507.2	13611.4	7374.8	4539.4	4099.3	3967.0	3722.1	3381.4	3014.1	2756.0
18617.3	52.5°	18167.3	15599.9	7308.6	4079.5	3672.5	3622.9	3427.7	3110.1	2762.7	2544.3
21800.1	55°	21221.1	17978.7	7308.6	3639.4	3298.6	3315.2	3179.5	2885.1	2584.0	2388.8
25082.2	57.5°	24337.8	20387.4	7176.3	3232.5	2981.0	3050.5	2964.5	2706.4	2435.1	2233.3
28533.1	60°	27209.6	22405.6	6640.3	2861.9	2699.8	2809.0	2752.7	2531.1	2200.2	2031.5
31418.1	62.5°	29416.5	23543.8	5608.0	2567.4	2468.2	2593.9	2564.1	2299.5	2157.2	2087.7
33787.1	65°	30521.5	23358.5	4287.9	2306.1	2273.0	2468.2	2405.3	2395.4	2282.9	2203.5
34558.0	67.5°	29843.3	21763.7	3110.1	2114.2	2160.5	2352.4	2593.9	2633.6	2425.2	2269.7
32387.5	70°	26868.9	18878.7	2316.0	1932.2	2018.2	2355.7	2957.9	2756.0	2378.9	2196.9
25975.5	72.5°	20440.3	14077.9	1796.6	1740.3	1832.9	2372.2	3120.0	2699.8	2246.5	2428.5
16182.2	75°	11689.2	7728.8	1442.5	1505.4	1601.3	2216.7	3037.3	2554.2	2144.0	2230.0
6412.0	77.5°	4456.6	2971.1	1191.1	1273.8	1287.0	1935.5	2904.9	2544.3	2041.4	1991.8
1922.3	80°	1545.1	1161.3	986.0	1012.4	995.9	1720.5	2785.8	2213.4	1670.8	1495.5
794.1	82.5°	631.9	579.0	780.8	747.7	708.0	1336.7	2249.8	1809.8	1366.4	1207.6
383.8	85°	274.6	367.3	516.1	453.3	410.3	926.4	1803.2	1531.9	1154.7	995.9
125.7	87.5°	56.2	139.0	218.4	205.1	211.7	618.7	1280.4	1088.5	817.2	612.1
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>
6335.9
6319.4
6441.8
6650.2
6885.1
7103.5
7252.4
7338.4
7388.0
7391.3
7341.7
7255.7
7086.9
6775.9
6269.7
5601.4
4833.8
4076.2
3447.5
3017.4
2739.5
2527.7
2368.9
2200.2
2005.0
2064.5
2177.0
2243.2
2167.1
2408.6
2230.0
1816.4
1445.8
1194.4
992.6
479.7
0.0

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