

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: P943919

Luminaire Tested: **GALN-SB8C-840-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943919  
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-SB8C-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

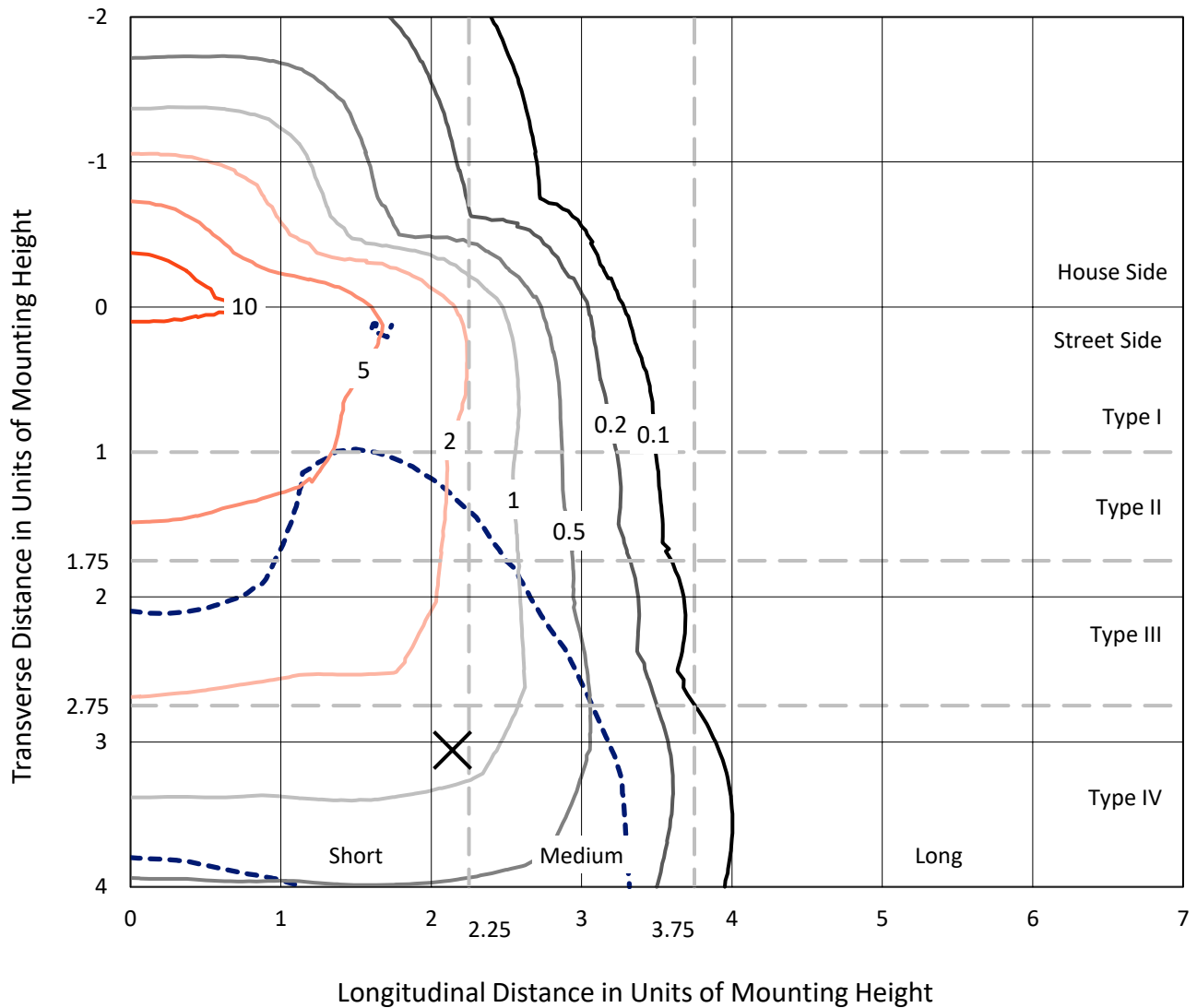
Lumens per Lamp: N/A  
Luminaire Lumens: 57252 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

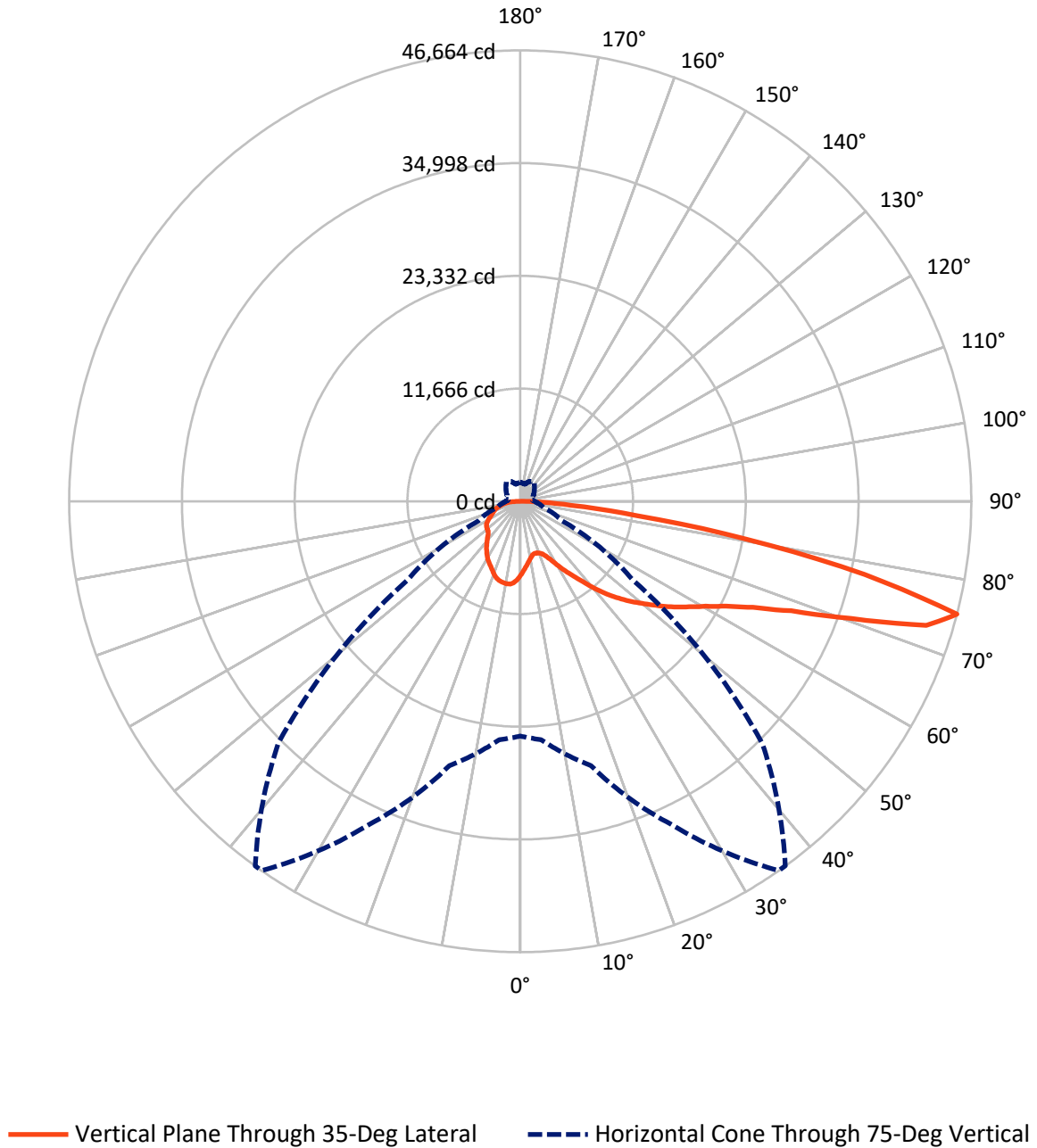
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13624.5	0.0	13624.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	43627.5	0.0	43627.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	57252.0	0.0	57252.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	722.3	1.3
10°-20°	2083.5	3.6
20°-30°	3498.8	6.1
30°-40°	5437.6	9.5
40°-50°	8070.8	14.1
50°-60°	11142.3	19.5
60°-70°	13518.1	23.6
70°-80°	11171.7	19.5
80°-90°	1606.8	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°	57252.0	100.0
0°-180°	57252.0	100.0

**Coefficient of Utilization**



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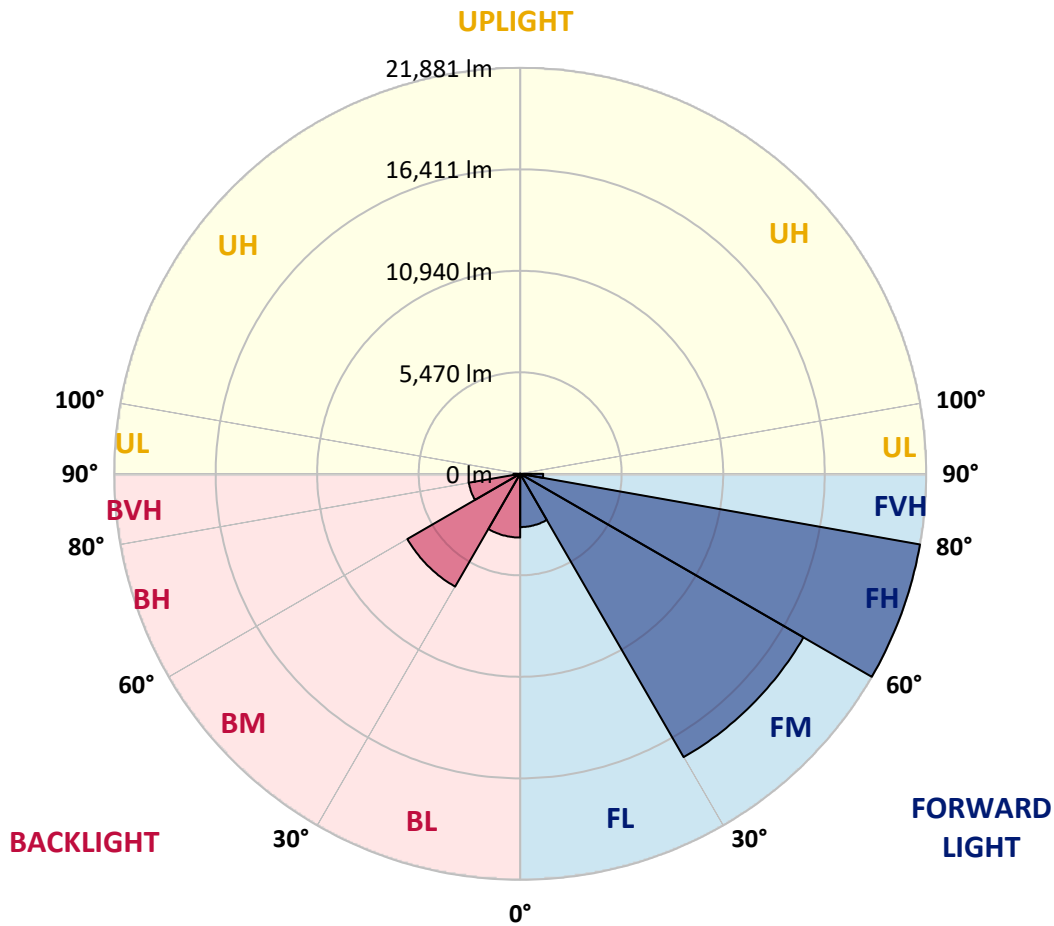
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.1	5.0			
FM (30°-60°)	17630.5	30.8			
FH (60°-80°)	21880.9	38.2			G5
FVH (80°-90°)	1245.0	2.2			G5
BL (0°-30°)	3433.6	6.0	B4/5000		
BM (30°-60°)	7020.2	12.3	B4/8500		
BH (60°-80°)	2809.0	4.9	B4/5000		G4/5000
BVH (80°-90°)	361.8	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2
2.5°	7035.0	7078.3	7096.9	7087.6	7134.0	7127.8	7192.8	7273.3	7384.7	7493.0
5°	6493.3	6539.8	6580.0	6617.1	6706.9	6734.8	6836.9	6991.6	7195.9	7403.3
7.5°	5988.9	6029.1	6091.0	6159.1	6310.7	6338.6	6508.8	6750.2	7035.0	7338.3
10°	5577.2	5617.5	5682.5	5759.8	5948.6	5982.7	6199.3	6521.2	6892.6	7276.4
12.5°	5400.8	5413.2	5450.3	5527.7	5691.7	5713.4	5951.7	6320.0	6753.3	7230.0
15°	5391.5	5416.3	5419.4	5459.6	5595.8	5605.1	5824.8	6190.0	6666.7	7220.7
17.5°	5484.4	5502.9	5475.1	5499.8	5614.4	5629.8	5803.2	6128.1	6638.8	7260.9
20°	5732.0	5747.4	5663.9	5629.8	5713.4	5725.8	5896.0	6168.4	6666.7	7344.5
22.5°	6258.1	6267.4	6063.1	5923.9	5930.1	5936.2	6084.8	6332.4	6775.0	7496.1
25°	7078.3	7072.1	6747.1	6477.9	6323.1	6289.1	6388.1	6598.6	6957.6	7697.3
27.5°	8037.8	7991.3	7666.4	7264.0	6926.6	6877.1	6855.5	6945.2	7217.6	7963.5
30°	9121.0	9077.7	8727.9	8201.8	7734.4	7654.0	7449.7	7403.3	7604.5	8325.6
32.5°	10309.5	10281.6	9863.8	9226.2	8601.1	8508.2	8164.7	8040.9	8198.7	8873.4
35°	11306.1	11281.3	10934.7	10278.6	9514.1	9399.6	9049.8	8910.6	8991.0	9576.0
37.5°	12206.7	12194.4	11897.2	11380.4	10591.1	10451.9	10058.8	10012.4	9996.9	10501.4
40°	13042.4	13011.5	12701.9	12429.6	11844.6	11717.7	11371.1	11330.9	11213.2	11640.4
42.5°	13967.8	13887.3	13438.6	13311.7	13153.8	13048.6	12841.2	12847.4	12587.4	12924.8
45°	14723.0	14676.6	14215.4	14141.1	14311.4	14268.0	14447.5	14494.0	13989.5	14271.1
47.5°	15533.9	15490.6	15100.6	15048.0	15509.1	15521.5	16156.0	16171.5	15357.5	15670.1
50°	16533.6	16471.7	16084.8	16149.8	16666.7	16713.1	17873.7	17768.5	16617.1	17090.7
52.5°	17192.8	17230.0	17146.4	17251.6	17957.3	18000.6	19563.6	19294.3	17864.4	18492.7
55°	17678.7	17753.0	18013.0	18254.4	19319.1	19362.4	21157.5	20745.9	18898.2	19792.6
57.5°	18303.9	18198.7	18684.6	19155.1	20612.8	20727.3	22708.1	22144.8	19814.3	20913.0
60°	19201.5	19127.2	19504.8	20201.2	22061.3	22243.9	24348.5	23404.5	20485.9	21801.3
62.5°	21021.4	20835.7	20894.5	21510.4	23887.3	24128.8	26199.3	24503.2	20820.2	22147.9
65°	23741.9	23423.1	23126.0	23553.1	26459.3	26697.6	28288.5	25366.8	20696.4	21476.3
67.5°	27168.1	26852.4	26487.2	26889.5	30247.6	30436.4	30866.6	25852.7	19721.4	18888.9
70°	29993.8	29876.2	30312.6	31968.4	36298.4	36304.5	34172.1	25450.3	17050.4	13392.1
72.5°	29619.3	29548.1	31847.7	36966.9	43924.5	43760.4	37301.1	22404.8	11485.6	6041.5
75°	24299.0	24760.1	28322.5	36877.1	46663.6	46641.9	35385.3	14243.3	4750.9	2503.9
77.5°	13030.0	13760.4	18387.5	27226.9	36428.3	36976.2	24877.7	4983.0	2039.6	1603.2
80°	4249.5	4887.0	7329.0	13862.6	23670.7	23568.6	10662.3	1956.1	1395.9	1135.9
82.5°	1804.4	1878.7	3274.5	6546.0	12147.9	11959.1	3395.2	1123.5	981.1	776.8
85°	705.7	789.2	1445.4	3026.9	5261.5	5147.0	1225.6	557.1	628.3	507.6
87.5°	232.1	281.6	516.9	1036.8	1637.3	1578.5	300.2	191.9	272.4	232.1
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°
7629.2	0°	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2	7629.2
7650.9	2.5°	7694.2	7743.7	7802.5	7889.2	7963.5	8025.4	8090.4	8130.6	8146.1	8192.5
7663.3	5°	7749.9	7858.2	8003.7	8146.1	8285.4	8368.9	8443.2	8480.3	8514.4	8539.2
7697.3	7.5°	7842.8	7982.0	8211.1	8396.8	8514.4	8582.5	8632.0	8619.6	8632.0	8638.2
7734.4	10°	7923.2	8118.2	8390.6	8567.0	8656.8	8659.9	8647.5	8604.1	8582.5	8585.6
7790.2	12.5°	8019.2	8235.8	8529.9	8678.4	8703.2	8635.1	8582.5	8508.2	8480.3	8468.0
7873.7	15°	8149.2	8396.8	8681.5	8737.2	8675.3	8588.7	8498.9	8378.2	8316.3	8266.8
8016.1	17.5°	8307.0	8579.4	8799.1	8758.9	8625.8	8483.4	8338.0	8155.4	8028.5	7975.9
8211.1	20°	8526.8	8771.3	8888.9	8712.5	8511.3	8294.6	8047.0	7824.2	7706.6	7654.0
8458.7	22.5°	8792.9	9028.2	8975.5	8632.0	8347.3	8000.6	7691.1	7527.1	7468.3	7431.1
8777.5	25°	9111.7	9312.9	9037.4	8514.4	8078.0	7610.6	7372.3	7319.7	7291.9	7264.0
9167.4	27.5°	9526.5	9634.8	9083.9	8341.1	7657.1	7195.9	7109.3	7118.5	7109.3	7062.8
9709.1	30°	10074.3	10052.6	9127.2	8059.4	7174.2	6821.4	6827.6	6867.8	6874.0	6843.1
10464.3	32.5°	10795.4	10575.7	9148.9	7694.2	6713.1	6493.3	6499.5	6542.9	6573.8	6521.2
11451.6	35°	11668.2	11185.4	9114.8	7236.1	6357.2	6180.7	6134.3	6146.7	6156.0	6106.5
12649.3	37.5°	12686.5	11869.4	8963.2	6728.6	6063.1	5874.3	5775.3	5691.7	5642.2	5595.8
14005.0	40°	13803.8	12615.3	8684.6	6233.4	5735.1	5549.4	5400.8	5243.0	5075.8	5013.9
15441.0	42.5°	14973.7	13382.9	8347.3	5759.8	5357.5	5205.8	5048.0	4818.9	4568.2	4441.3
16932.8	45°	16186.9	14169.0	8016.1	5292.5	4970.6	4905.6	4723.0	4447.5	4175.2	4014.2
18427.7	47.5°	17375.4	14911.8	7530.2	4822.0	4608.5	4679.7	4537.3	4283.5	3980.2	3726.4
19910.2	50°	18511.3	15608.2	6734.8	4345.4	4314.5	4611.6	4475.4	4110.2	3763.5	3438.6
21364.9	52.5°	19637.9	16171.5	5716.5	3912.1	4156.6	4593.0	4394.9	3992.6	3568.6	3228.1
22732.9	55°	20594.2	16462.4	4735.4	3540.7	3927.6	4435.2	4299.0	3853.3	3293.1	2931.0
23670.7	57.5°	21139.0	16227.2	3918.3	3175.5	3611.9	4175.2	4134.9	3556.2	2965.0	2686.5
23853.3	60°	20903.7	15273.9	3249.8	2856.7	3311.7	3893.5	3850.2	3262.1	2714.3	2451.3
22875.3	62.5°	19606.9	13457.1	2720.5	2578.1	3039.3	3605.7	3565.5	3036.2	2522.4	2268.6
20278.5	65°	16994.7	10947.1	2308.9	2346.0	2763.8	3259.1	3317.9	2847.4	2370.8	2123.2
15688.6	67.5°	12961.9	7929.4	1987.0	2144.8	2494.6	2918.6	3088.8	2711.2	2243.9	2008.7
9077.7	70°	7387.8	4503.2	1714.6	1949.9	2256.3	2602.9	2912.4	2602.9	2107.7	1912.7
3401.4	72.5°	2801.0	2067.5	1482.5	1754.9	2027.2	2336.7	2717.4	2432.7	1949.9	1804.4
1758.0	75°	1494.9	1259.7	1247.3	1525.8	1764.2	2076.8	2472.9	2265.6	1832.2	1906.5
1216.3	77.5°	1018.3	891.4	1043.0	1306.1	1476.3	1788.9	2212.9	2011.8	1587.7	1581.6
841.8	80°	705.7	631.4	848.0	1052.3	1142.1	1504.2	1931.3	1727.0	1293.7	1207.1
520.0	82.5°	424.0	411.6	634.5	786.1	807.8	1160.6	1600.1	1448.5	1058.5	922.3
309.5	85°	232.1	244.5	405.4	461.2	470.4	810.9	1253.5	1120.4	814.0	684.0
111.4	87.5°	65.0	83.6	148.6	182.6	225.9	420.9	745.9	665.4	408.5	284.7
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>
7629.2
8189.4
8545.3
8647.5
8591.8
8461.8
8282.3
7979.0
7647.8
7437.3
7264.0
7072.1
6858.6
6546.0
6140.5
5626.7
5041.8
4456.8
4001.9
3698.5
3410.7
3191.0
2900.0
2649.3
2414.1
2228.4
2082.9
1971.5
1888.0
1779.6
1968.4
1457.8
1154.4
928.5
690.2
284.7
0.0

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