

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: P956121

Luminaire Tested: **GALN-SB8D-840-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-840-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

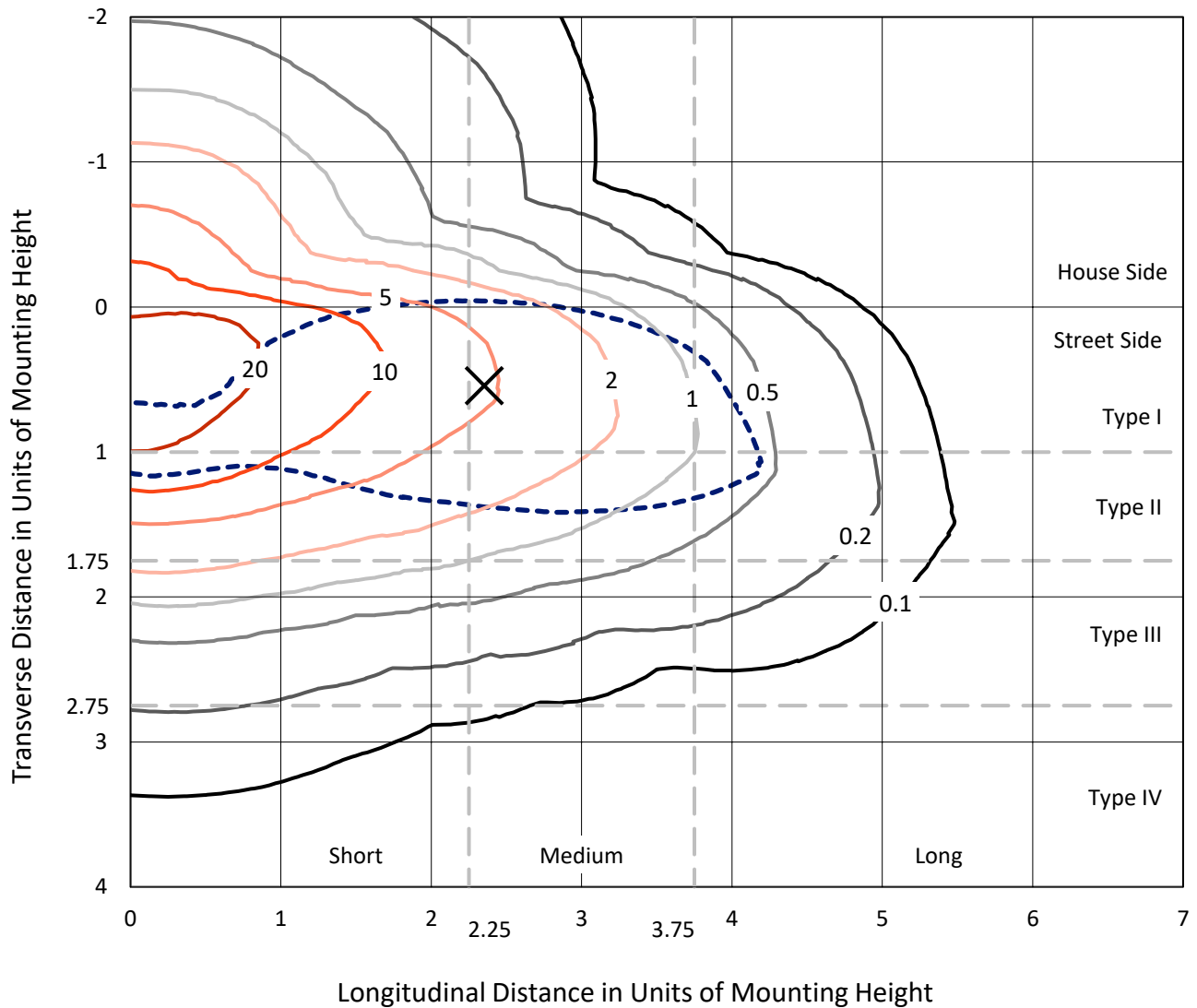
Lumens per Lamp: N/A  
Luminaire Lumens: 80168 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

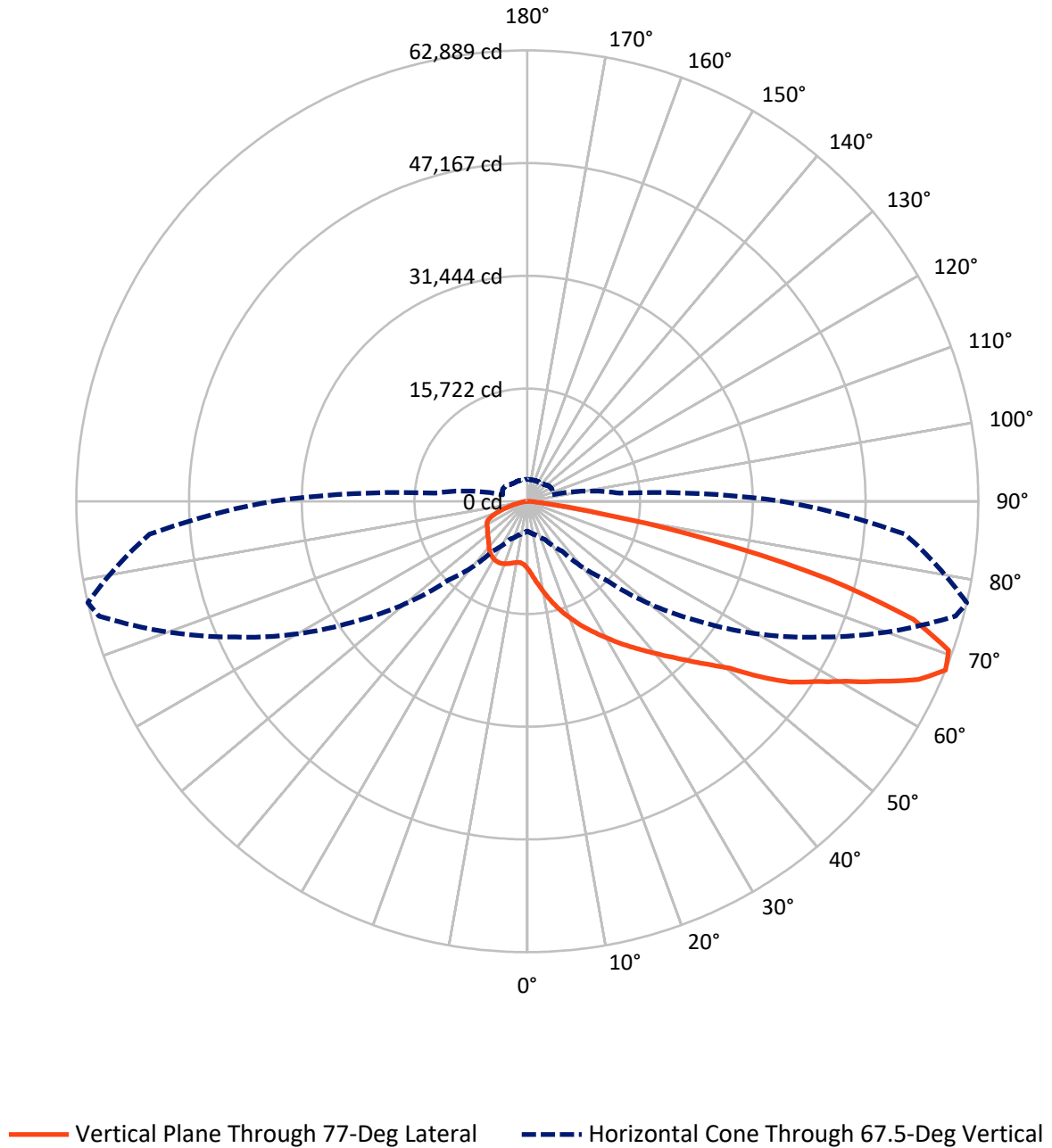
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15164.6	0.0	15164.6
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	65003.4	0.0	65003.4
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	80168.0	0.0	80168.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1008.2	1.3
10°-20°	3622.1	4.5
20°-30°	6838.9	8.5
30°-40°	11017.4	13.7
40°-50°	15069.8	18.8
50°-60°	16998.8	21.2
60°-70°	15866.3	19.8
70°-80°	8697.4	10.8
80°-90°	1049.1	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°	80168.0	100.0
0°-180°	80168.0	100.0

**Coefficient of Utilization**



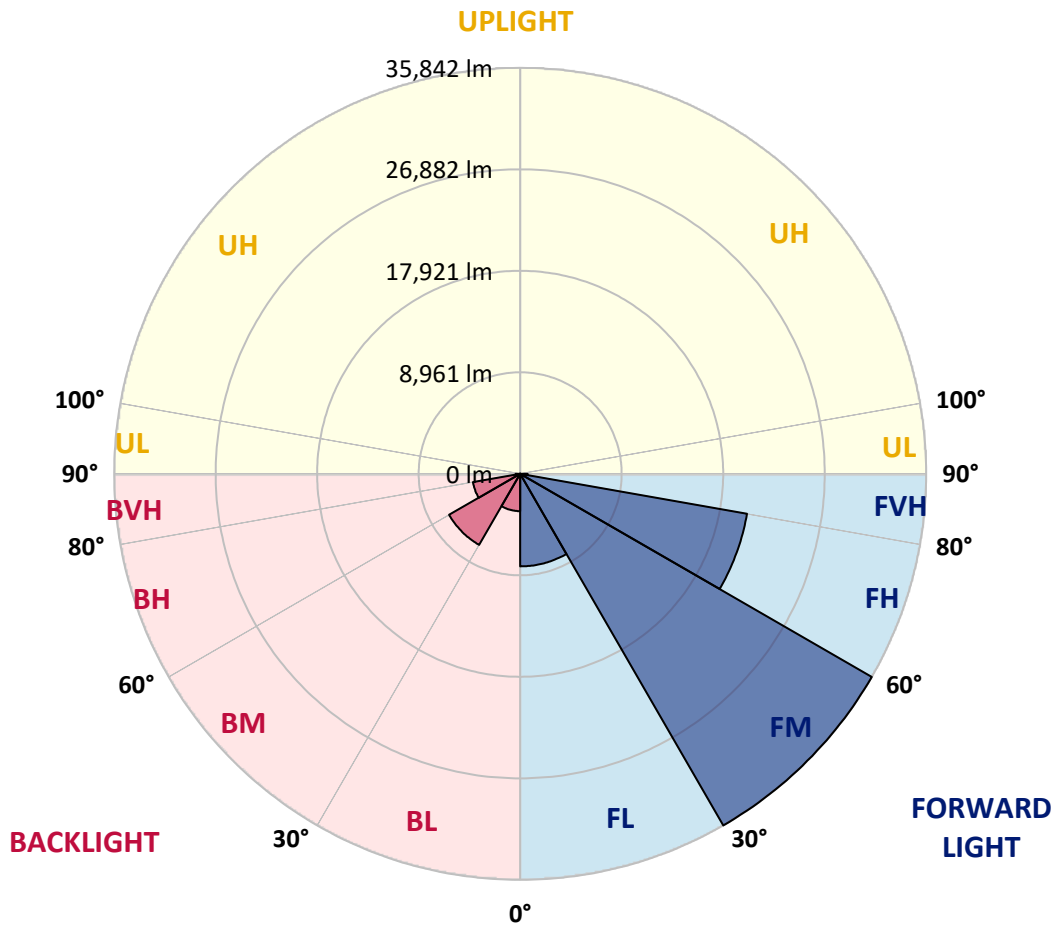
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8172.1	10.2			
FM (30°-60°)	35842.2	44.7			
FH (60°-80°)	20333.0	25.4			G5
FVH (80°-90°)	656.1	0.8			G4/750
BL (0°-30°)	3297.1	4.1	B4/5000		
BM (30°-60°)	7243.7	9.0	B4/8500		
BH (60°-80°)	4230.7	5.3	B4/5000		G4/5000
BVH (80°-90°)	393.0	0.5			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°	77°
0°	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2
2.5°	11777.4	11860.2	11756.7	11756.7	11409.1	11227.0	10879.4	10614.6	10138.7	10055.9
5°	13921.0	14024.5	13879.6	13817.6	13407.9	13031.3	12447.8	11872.6	11024.2	10937.3
7.5°	15580.4	15712.9	15584.6	15518.4	15154.2	14732.1	14049.3	13246.5	12050.5	11880.9
10°	16933.6	16954.3	16912.9	16937.8	16652.2	16304.6	15605.3	14670.0	13176.1	12944.4
12.5°	17699.2	17794.4	17877.2	18026.1	17976.5	17761.3	17132.3	16015.0	14367.9	14070.0
15°	18059.2	18224.8	18411.0	18754.5	19031.7	19085.5	18605.5	17459.2	15580.4	15220.4
17.5°	18187.5	18344.8	18638.6	19135.2	19731.1	20132.5	19917.3	18862.1	16780.5	16366.7
20°	18837.2	18882.7	19060.7	19532.4	20178.0	20844.3	21005.7	20211.1	17968.2	17500.6
22.5°	20227.7	20136.6	20186.3	20401.5	20865.0	21510.5	21878.8	21402.9	19189.0	18651.0
25°	22524.4	22259.5	21994.7	21746.4	21982.3	22346.4	22764.4	22594.7	20467.7	19784.9
27.5°	25425.3	25102.5	24519.0	23703.8	23418.2	23546.5	23732.7	23699.6	21651.2	20960.1
30°	28280.7	27904.1	27208.9	26029.5	25276.3	24937.0	24796.3	24701.1	22938.2	22201.6
32.5°	30560.8	30262.9	29580.1	28260.0	27167.5	26588.1	26120.5	25781.2	24283.1	23546.5
35°	32555.5	32278.2	31496.1	30056.0	28868.3	28251.7	27639.2	26915.0	25681.9	24937.0
37.5°	34376.3	34099.0	33027.2	31529.2	30333.2	29907.0	29360.7	28131.7	27084.7	26381.2
40°	35526.7	35464.6	34463.2	32766.5	31525.0	31314.0	31131.9	29542.8	28640.7	27986.9
42.5°	35820.5	35957.1	35162.5	33768.0	32584.4	32414.8	32841.0	31140.2	30387.0	29762.2
45°	35112.9	35506.0	34984.6	34036.9	33337.6	33246.5	34355.6	32886.5	32319.6	31748.5
47.5°	33321.0	33987.3	33772.1	33639.7	33540.4	33933.5	35688.1	34740.4	34508.7	34012.1
50°	29704.2	30966.4	31343.0	32178.9	33138.9	34467.3	36900.6	36764.0	37066.1	36565.4
52.5°	23451.3	25189.4	27374.4	29468.3	31905.8	34289.4	38233.1	39669.1	40943.6	40670.5
55°	19358.6	20140.8	21820.9	25661.2	29513.9	33540.4	38833.2	42015.5	44792.2	44548.0
57.5°	16213.6	16912.9	17947.5	21154.6	25897.0	31839.5	39205.6	43447.3	47428.3	47403.4
60°	12840.9	13581.7	14641.1	16912.9	21671.9	28901.4	39122.8	45077.7	50792.6	50999.5
62.5°	9033.8	9849.0	11024.2	13143.0	17355.7	25094.2	37434.4	46257.1	54752.9	55315.7
65°	5938.4	6476.3	7361.9	9191.0	12932.0	20198.7	34210.7	46410.3	58990.5	59942.3
67.5°	4163.1	4370.0	4891.4	5884.6	8524.8	15489.4	29075.2	44825.3	61816.9	62888.7
70°	3248.5	3352.0	3616.8	4014.1	5354.9	10415.9	22280.2	40703.6	61212.7	62330.0
72.5°	2805.7	2905.0	3004.4	3054.0	3592.0	6430.8	15092.1	34032.8	55522.6	56279.9
75°	2545.0	2569.8	2652.6	2636.1	2739.5	4171.3	8711.0	24796.3	43807.3	43546.6
77.5°	2139.5	2172.6	2309.1	2288.4	2433.3	2851.2	4523.1	16002.5	28400.7	26629.5
80°	1812.5	1829.1	1978.1	1953.2	2114.6	2065.0	2309.1	8156.5	12046.4	10204.9
82.5°	629.0	778.0	1510.5	1556.0	1613.9	1249.7	1332.5	3327.1	3678.9	2818.1
85°	306.2	326.9	769.7	1092.5	1088.4	629.0	649.7	1187.7	1158.7	910.4
87.5°	49.7	62.1	91.0	426.2	339.3	165.5	223.5	231.7	240.0	206.9
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°
9406.2	0°	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2	9406.2
9741.4	2.5°	9509.7	9302.7	8868.2	8466.8	8152.3	7850.2	7680.6	7535.7	7453.0	7436.4
10196.6	5°	9766.2	9340.0	8549.6	7883.3	7448.8	7126.0	6956.4	6848.8	6795.0	6761.9
10809.1	7.5°	10134.5	9509.7	8384.1	7626.8	7171.6	6939.8	6852.9	6836.4	6832.2	6836.4
11549.8	10°	10643.5	9786.9	8367.5	7564.7	7184.0	7055.7	7051.5	7055.7	7072.2	7076.4
12356.8	12.5°	11193.9	10072.5	8433.7	7618.5	7341.2	7270.9	7258.5	7254.3	7266.7	7275.0
13172.0	15°	11794.0	10449.0	8545.4	7734.4	7515.0	7440.5	7428.1	7403.3	7399.2	7395.0
14028.6	17.5°	12410.6	10821.5	8669.6	7858.5	7626.8	7523.3	7477.8	7419.8	7374.3	7361.9
14914.2	20°	13035.4	11189.8	8756.5	7920.6	7635.0	7490.2	7399.2	7299.8	7221.2	7175.7
15808.0	22.5°	13701.7	11574.6	8810.3	7904.0	7560.5	7361.9	7196.4	7080.5	6960.5	6881.9
16710.2	25°	14351.4	11909.8	8806.2	7817.1	7415.7	7163.3	6952.2	6803.3	6637.7	6555.0
17641.3	27.5°	14976.3	12211.9	8702.7	7664.0	7208.8	6927.4	6675.0	6497.0	6335.6	6257.0
18580.7	30°	15621.8	12464.3	8541.3	7440.5	6964.6	6654.3	6377.0	6223.9	6079.1	6004.6
19573.8	32.5°	16263.2	12696.1	8313.7	7163.3	6683.2	6385.3	6112.2	5971.5	5884.6	5884.6
20641.5	35°	16941.9	12857.5	8011.6	6840.5	6385.3	6099.8	5884.6	5801.8	5793.5	5743.9
21771.2	37.5°	17657.8	12960.9	7643.3	6509.4	6091.5	5822.5	5756.3	5657.0	5574.2	5466.6
23012.7	40°	18411.0	13064.4	7200.5	6166.0	5781.1	5632.1	5603.2	5470.7	5234.9	4970.0
24419.7	42.5°	19325.5	13134.7	6741.2	5822.5	5454.2	5404.5	5445.9	5218.3	4841.7	4643.1
26116.4	45°	20384.9	13250.6	6319.1	5483.2	5119.0	5119.0	5292.8	4994.8	4684.5	4560.3
28053.1	47.5°	21758.8	13519.6	5925.9	5110.7	4808.6	4891.4	4953.5	4725.9	4552.1	4398.9
30411.9	50°	23745.2	14165.2	5520.4	4734.1	4572.7	4738.3	4651.4	4518.9	4316.2	4192.0
34161.1	52.5°	26211.5	14545.9	5160.4	4394.8	4370.0	4535.5	4411.4	4287.2	4134.1	3968.6
37004.1	55°	27891.7	14616.2	4858.3	4146.5	4233.4	4216.9	4171.3	4059.6	3976.8	3757.5
39809.8	57.5°	29770.4	14756.9	4610.0	3997.5	4146.5	3964.4	3947.9	3852.7	3745.1	3596.1
43232.1	60°	32017.5	14976.3	4394.8	3939.6	4072.0	3798.9	3716.1	3678.9	3571.3	3496.8
47349.6	62.5°	34467.3	15174.9	4175.5	3947.9	3985.1	3637.5	3513.4	3500.9	3434.7	3409.9
51214.7	65°	36139.2	14632.8	3902.4	3939.6	3848.6	3472.0	3314.7	3310.6	3256.8	3248.5
52890.7	67.5°	35555.7	12915.4	3534.0	3823.7	3707.9	3306.4	3132.6	3116.1	3045.7	3049.9
51140.2	70°	32634.1	10465.6	3025.0	3538.2	3534.0	3157.5	2942.3	2888.5	2793.3	2809.9
44465.3	72.5°	27155.1	7755.0	2342.2	3062.3	3256.8	3020.9	2723.0	2636.1	2516.0	2532.6
32824.4	75°	19611.1	5272.1	1705.0	2329.8	2834.7	2859.5	2507.8	2358.8	2214.0	2238.8
18270.3	77.5°	10035.2	2987.8	1253.9	1605.6	2226.4	2598.8	2313.3	2114.6	2081.5	2313.3
5268.0	80°	3273.3	1498.0	869.0	1125.6	1460.8	2127.1	2027.7	1800.1	1791.9	1845.7
1104.9	82.5°	976.6	633.1	558.7	740.7	807.0	1630.5	1750.5	1361.5	1171.1	1233.2
368.3	85°	335.2	306.2	318.6	368.3	384.9	955.9	1224.9	902.1	852.5	939.4
82.8	87.5°	78.6	107.6	91.0	82.8	82.8	231.7	475.9	376.6	521.4	347.6
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

180°
9406.2
7436.4
6757.7
6848.8
7080.5
7279.1
7390.9
7374.3
7192.2
6886.0
6555.0
6252.9
6000.4
5888.7
5731.4
5450.0
4932.8
4647.2
4581.0
4394.8
4179.6
3935.5
3761.7
3546.5
3517.5
3409.9
3244.4
3049.9
2826.4
2528.5
2247.1
2280.2
1584.9
1274.6
927.0
335.2
0.0

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