

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: P957654

Luminaire Tested: **GALN-SB9D-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957654  
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-SB9D-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

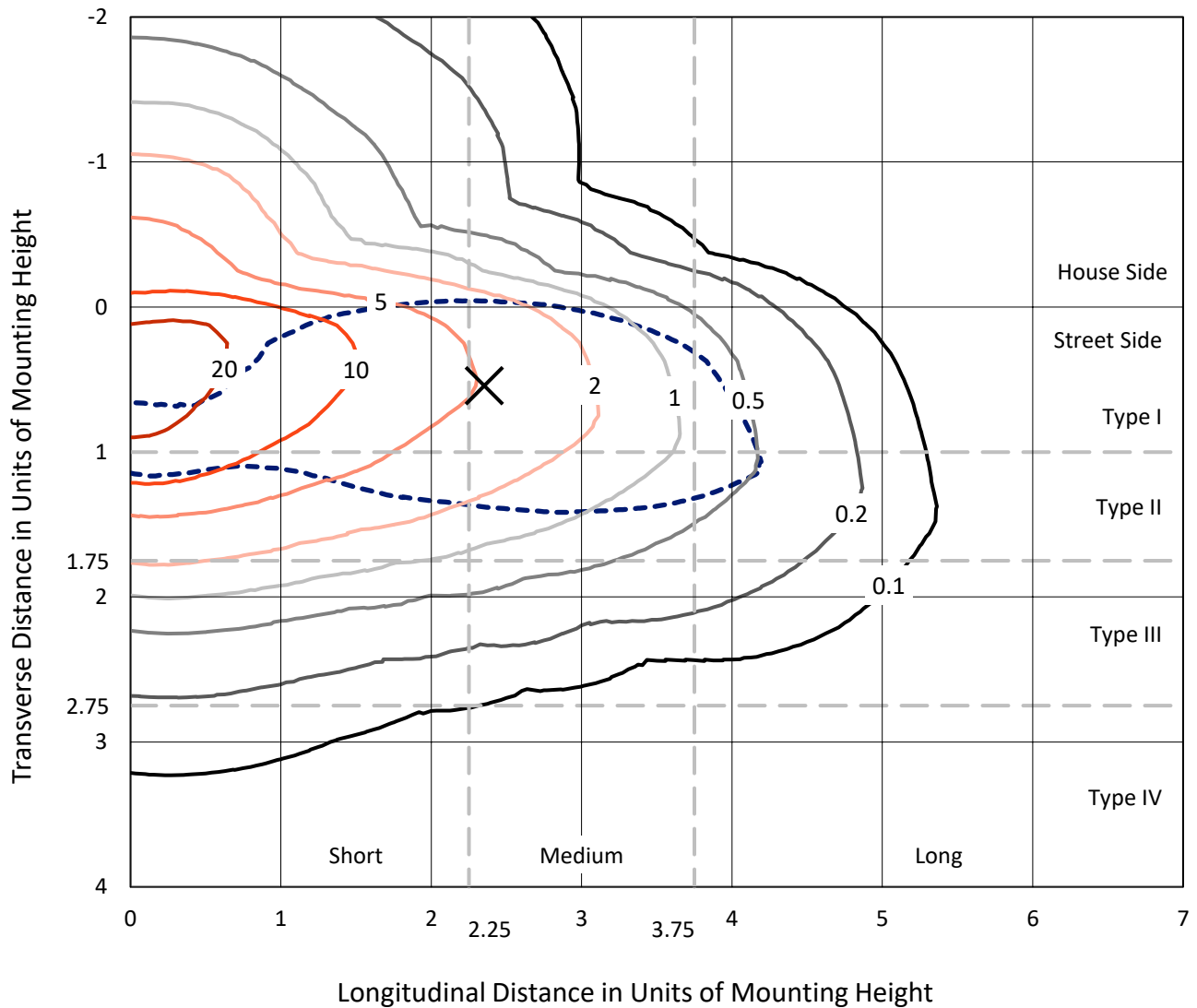
Lumens per Lamp: N/A  
Luminaire Lumens: 68411 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

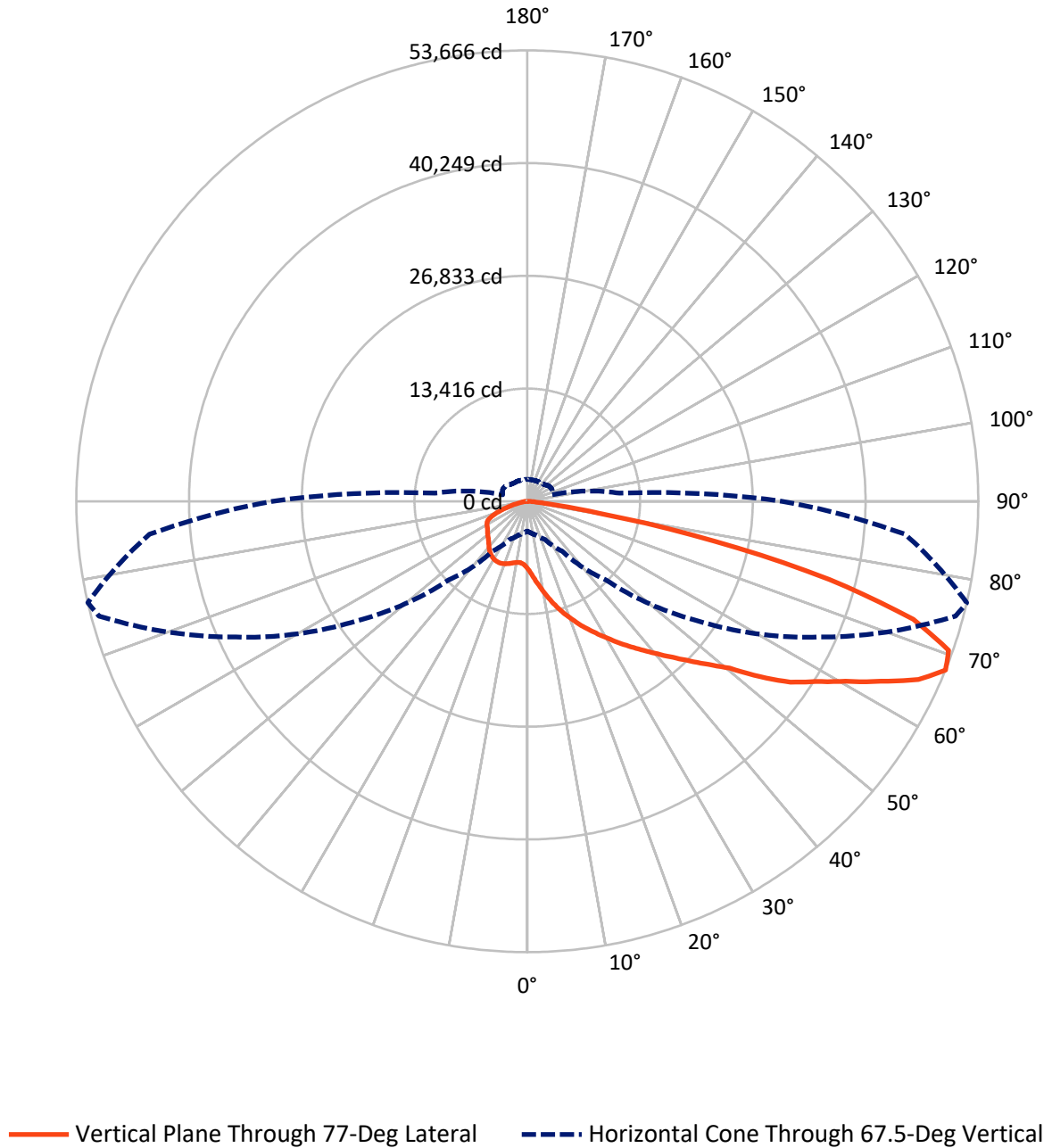
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 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	12940.6	0.0	12940.6
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	55470.4	0.0	55470.4
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	68411.0	0.0	68411.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	860.4	1.3
10°-20°	3090.9	4.5
20°-30°	5836.0	8.5
30°-40°	9401.6	13.7
40°-50°	12859.7	18.8
50°-60°	14505.9	21.2
60°-70°	13539.4	19.8
70°-80°	7421.9	10.8
80°-90°	895.3	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°	68411.0	100.0
0°-180°	68411.0	100.0



REPORT NUMBER: P957654

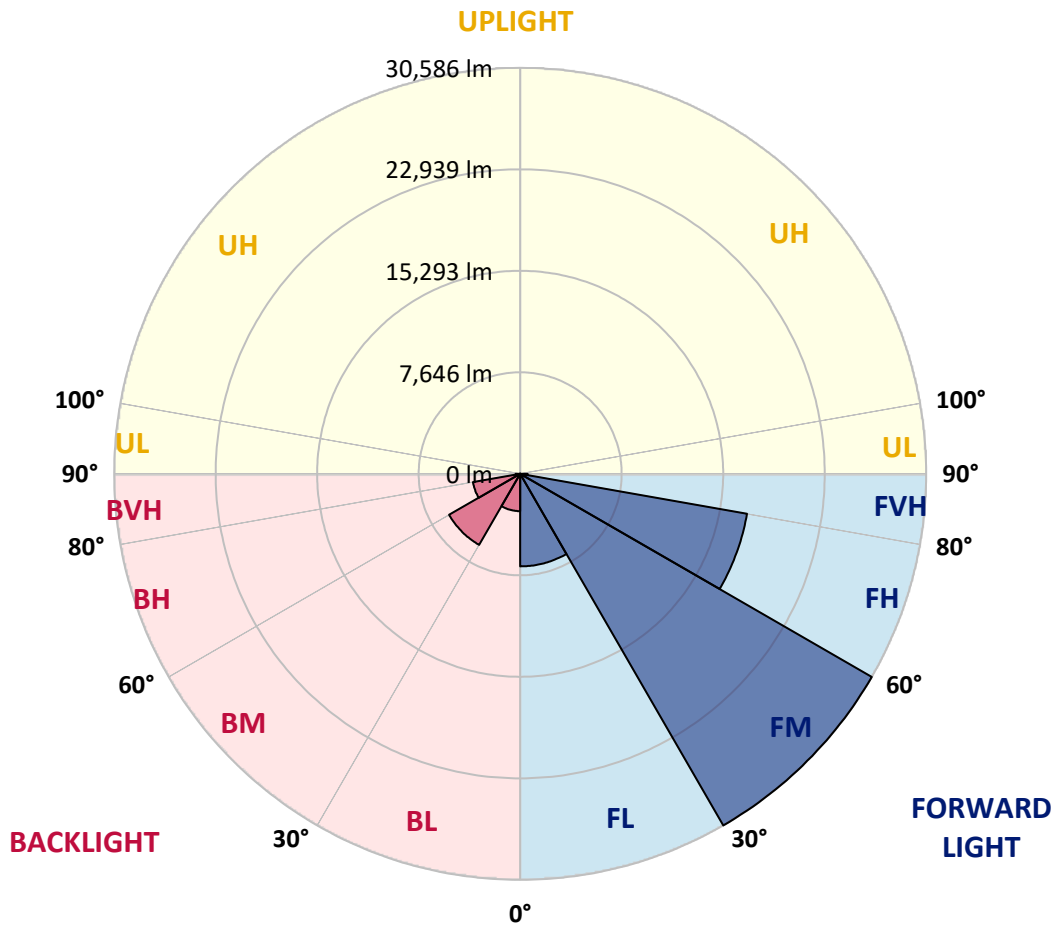
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6973.6	10.2			
FM (30°-60°)	30585.8	44.7			
FH (60°-80°)	17351.1	25.4			G5
FVH (80°-90°)	559.9	0.8			G4/750
BL (0°-30°)	2813.6	4.1	B4/5000		
BM (30°-60°)	6181.4	9.0	B4/8500		
BH (60°-80°)	3610.2	5.3	B4/5000		G4/5000
BVH (80°-90°)	335.4	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



REPORT NUMBER: P957654

CATALOG NUMBER: GALN-SB9D-940-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7
2.5°	10050.2	10120.8	10032.5	10032.5	9735.9	9580.5	9283.9	9057.9	8651.8	8581.2
5°	11879.4	11967.7	11844.1	11791.1	11441.5	11120.2	10622.3	10131.4	9407.5	9333.3
7.5°	13295.5	13408.5	13299.0	13242.5	12931.8	12571.6	11988.9	11303.8	10283.3	10138.5
10°	14450.2	14467.9	14432.6	14453.8	14210.1	13913.5	13316.7	12518.6	11243.8	11046.0
12.5°	15103.5	15184.8	15255.4	15382.5	15340.1	15156.5	14619.7	13666.3	12260.8	12006.6
15°	15410.8	15552.0	15710.9	16004.0	16240.6	16286.5	15876.9	14898.7	13295.5	12988.3
17.5°	15520.2	15654.4	15905.2	16328.9	16837.4	17180.0	16996.3	16095.8	14319.6	13966.4
20°	16074.7	16113.5	16265.4	16667.9	17218.8	17787.4	17925.1	17247.1	15333.1	14934.0
22.5°	17261.2	17183.5	17225.9	17409.5	17805.0	18355.9	18670.2	18264.1	16374.8	15915.7
25°	19221.1	18995.1	18769.1	18557.2	18758.5	19069.2	19425.9	19281.1	17466.0	16883.3
27.5°	21696.6	21421.1	20923.2	20227.5	19983.9	20093.3	20252.2	20224.0	18476.0	17886.2
30°	24133.2	23811.8	23218.6	22212.1	21569.4	21279.9	21159.8	21078.6	19574.2	18945.6
32.5°	26078.9	25824.7	25242.0	24115.5	23183.2	22688.9	22289.8	22000.2	20721.9	20093.3
35°	27781.1	27544.5	26877.0	25648.1	24634.6	24108.5	23585.8	22967.8	21915.5	21279.9
37.5°	29334.8	29098.2	28183.6	26905.3	25884.7	25521.0	25054.9	24006.0	23112.6	22512.3
40°	30316.6	30263.6	29409.0	27961.1	26901.7	26721.6	26566.3	25210.2	24440.4	23882.5
42.5°	30567.3	30683.8	30005.8	28815.7	27805.8	27661.0	28024.7	26573.3	25930.6	25397.4
45°	29963.4	30298.9	29853.9	29045.3	28448.5	28370.8	29317.2	28063.6	27579.8	27092.4
47.5°	28434.3	29002.9	28819.3	28706.3	28621.5	28957.0	30454.3	29645.6	29447.8	29024.1
50°	25348.0	26425.0	26746.4	27459.7	28279.0	29412.5	31489.0	31372.4	31630.2	31202.9
52.5°	20012.1	21495.3	23359.8	25146.7	27226.6	29260.7	32626.0	33851.4	34939.1	34706.0
55°	16519.6	17187.0	18620.8	21897.8	25185.5	28621.5	33138.1	35853.7	38223.2	38014.9
57.5°	13835.8	14432.6	15315.4	18052.2	22099.1	27170.1	33455.9	37075.5	40472.7	40451.5
60°	10957.7	11589.9	12493.9	14432.6	18493.6	24662.9	33385.3	38466.9	43343.7	43520.2
62.5°	7708.9	8404.6	9407.5	11215.5	14810.4	21414.0	31944.5	39473.3	46723.2	47203.4
65°	5067.5	5526.5	6282.3	7843.1	11035.4	17236.5	29193.6	39604.0	50339.3	51151.5
67.5°	3552.5	3729.1	4174.0	5021.6	7274.6	13217.8	24811.2	38251.5	52751.2	53665.8
70°	2772.1	2860.4	3086.4	3425.4	4569.6	8888.4	19012.7	34734.3	52235.6	53189.0
72.5°	2394.2	2479.0	2563.8	2606.1	3065.2	5487.7	12878.8	29041.7	47380.0	48026.2
75°	2171.8	2193.0	2263.6	2249.5	2337.7	3559.6	7433.5	21159.8	37382.8	37160.3
77.5°	1825.7	1854.0	1970.5	1952.8	2076.4	2433.1	3859.8	13655.7	24235.6	22724.2
80°	1546.7	1560.9	1688.0	1666.8	1804.5	1762.1	1970.5	6960.3	10279.7	8708.3
82.5°	536.8	663.9	1288.9	1327.8	1377.2	1066.5	1137.1	2839.2	3139.4	2404.8
85°	261.3	279.0	656.8	932.3	928.7	536.8	554.4	1013.5	988.8	776.9
87.5°	42.4	53.0	77.7	363.7	289.6	141.3	190.7	197.8	204.8	176.6
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°
8026.7	0°	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7	8026.7
8312.8	2.5°	8115.0	7938.5	7567.7	7225.1	6956.7	6699.0	6554.2	6430.6	6359.9	6345.8
8701.2	5°	8334.0	7970.2	7295.7	6727.2	6356.4	6081.0	5936.2	5844.4	5798.5	5770.2
9223.9	7.5°	8648.3	8115.0	7154.5	6508.3	6119.8	5922.1	5847.9	5833.8	5830.2	5833.8
9856.0	10°	9082.6	8351.6	7140.4	6455.3	6130.4	6020.9	6017.4	6020.9	6035.1	6038.6
10544.6	12.5°	9552.3	8595.3	7196.9	6501.2	6264.6	6204.6	6194.0	6190.4	6201.0	6208.1
11240.3	15°	10064.3	8916.6	7292.2	6600.1	6412.9	6349.3	6338.8	6317.6	6314.0	6310.5
11971.2	17.5°	10590.5	9234.5	7398.2	6706.0	6508.3	6420.0	6381.1	6331.7	6292.8	6282.3
12726.9	20°	11123.7	9548.7	7472.3	6759.0	6515.3	6391.7	6314.0	6229.3	6162.2	6123.3
13489.7	22.5°	11692.3	9877.2	7518.2	6744.9	6451.8	6282.3	6141.0	6042.1	5939.7	5872.6
14259.6	25°	12246.7	10163.2	7514.7	6670.7	6328.2	6112.7	5932.7	5805.5	5664.3	5593.6
15054.1	27.5°	12779.9	10421.0	7426.4	6540.0	6151.6	5911.5	5696.1	5544.2	5406.5	5339.4
15855.7	30°	13330.8	10636.4	7288.7	6349.3	5943.2	5678.4	5441.8	5311.1	5187.5	5124.0
16703.2	32.5°	13878.2	10834.2	7094.5	6112.7	5703.1	5448.9	5215.8	5095.7	5021.6	5021.6
17614.3	35°	14457.3	10971.9	6836.7	5837.3	5448.9	5205.2	5021.6	4950.9	4943.9	4901.5
18578.4	37.5°	15068.2	11060.2	6522.4	5554.8	5198.1	4968.6	4912.1	4827.3	4756.7	4664.9
19637.8	40°	15710.9	11148.4	6144.5	5261.7	4933.3	4806.2	4781.4	4668.4	4467.1	4241.1
20838.4	42.5°	16491.4	11208.5	5752.6	4968.6	4654.3	4611.9	4647.2	4453.0	4131.7	3962.2
22286.3	45°	17395.4	11307.4	5392.4	4679.0	4368.3	4368.3	4516.6	4262.3	3997.5	3891.5
23939.0	47.5°	18567.8	11536.9	5056.9	4361.2	4103.4	4174.0	4227.0	4032.8	3884.5	3753.8
25951.8	50°	20262.8	12087.8	4710.8	4039.9	3902.1	4043.4	3969.2	3856.2	3683.2	3577.2
29151.2	52.5°	22367.5	12412.7	4403.6	3750.3	3729.1	3870.3	3764.4	3658.5	3527.8	3386.6
31577.2	55°	23801.2	12472.7	4145.8	3538.4	3612.6	3598.4	3559.6	3464.2	3393.6	3206.5
33971.5	57.5°	25404.5	12592.8	3933.9	3411.3	3538.4	3383.0	3368.9	3287.7	3195.9	3068.7
36891.9	60°	27322.0	12779.9	3750.3	3361.8	3474.8	3241.8	3171.1	3139.4	3047.5	2984.0
40405.6	62.5°	29412.5	12949.4	3563.1	3368.9	3400.7	3104.0	2998.1	2987.5	2931.0	2909.8
43703.9	65°	30839.2	12486.8	3330.1	3361.8	3284.1	2962.8	2828.6	2825.1	2779.2	2772.1
45134.1	67.5°	30341.3	11021.3	3015.8	3263.0	3164.1	2821.5	2673.2	2659.1	2599.1	2602.6
43640.3	70°	27848.1	8930.8	2581.4	3019.3	3015.8	2694.4	2510.8	2464.9	2383.7	2397.8
37944.2	72.5°	23172.7	6617.7	1998.7	2613.2	2779.2	2577.9	2323.6	2249.5	2147.1	2161.2
28010.6	75°	16735.0	4498.9	1454.9	1988.1	2419.0	2440.2	2140.0	2012.9	1889.3	1910.5
15590.9	77.5°	8563.5	2549.6	1070.0	1370.2	1899.9	2217.7	1974.0	1804.5	1776.3	1974.0
4495.4	80°	2793.3	1278.3	741.6	960.5	1246.6	1815.1	1730.4	1536.1	1529.1	1575.0
942.9	82.5°	833.4	540.3	476.7	632.1	688.6	1391.3	1493.8	1161.8	999.4	1052.3
314.3	85°	286.0	261.3	271.9	314.3	328.4	815.7	1045.3	769.8	727.5	801.6
70.6	87.5°	67.1	91.8	77.7	70.6	70.6	197.8	406.1	321.4	444.9	296.6
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

<u>180°</u>
8026.7
6345.8
5766.7
5844.4
6042.1
6211.6
6307.0
6292.8
6137.5
5876.1
5593.6
5335.9
5120.4
5025.1
4890.9
4650.8
4209.4
3965.7
3909.2
3750.3
3566.7
3358.3
3210.0
3026.4
3001.6
2909.8
2768.6
2602.6
2411.9
2157.6
1917.5
1945.8
1352.5
1087.7
791.0
286.0
0.0

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