

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: P955617

Luminaire Tested: **GALN-SB8C-735-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955617  
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-SB8C-735-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

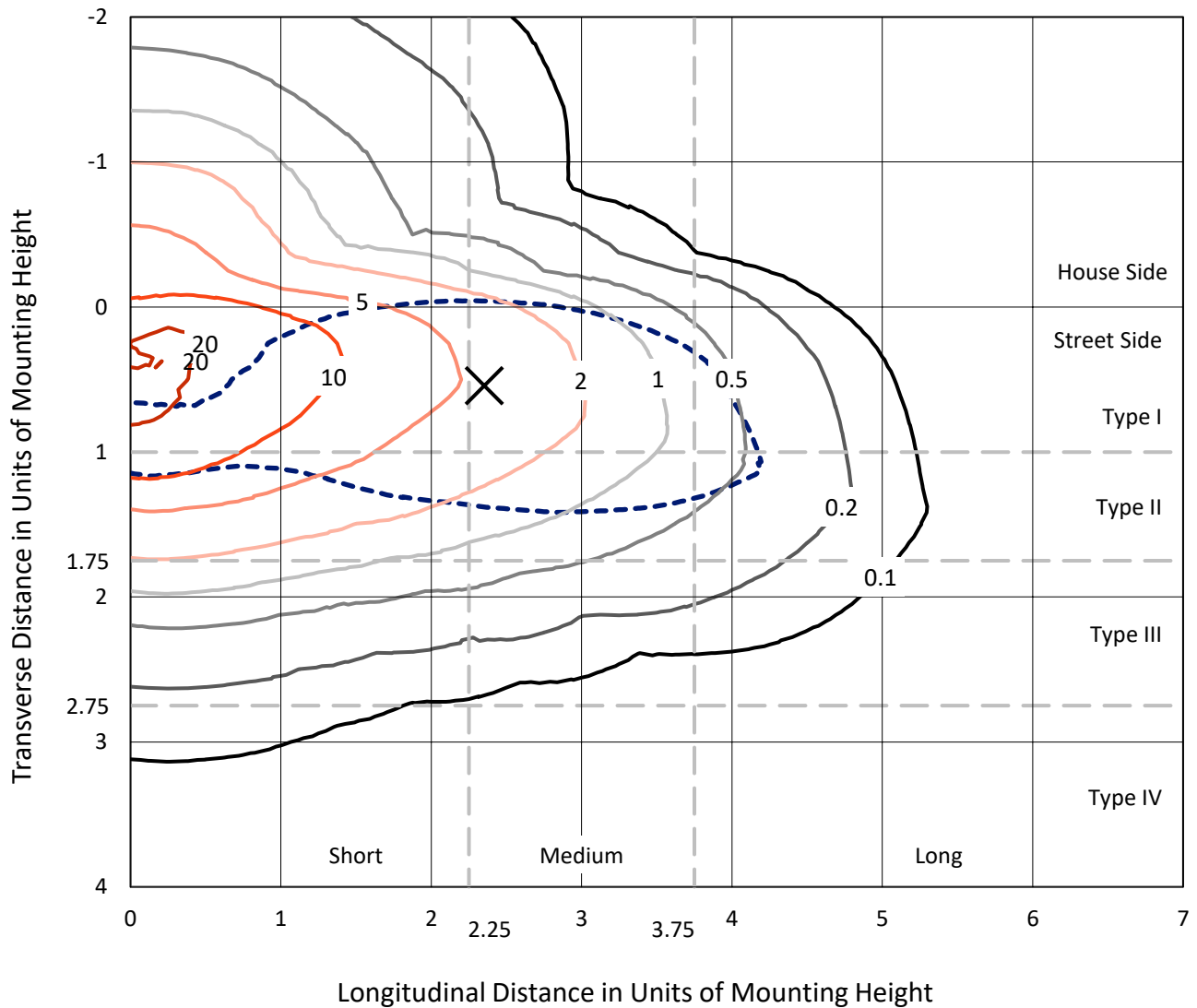
Lumens per Lamp: N/A  
Luminaire Lumens: 61682 lumens  
Efficiency: N/A  
Efficacy: 154.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

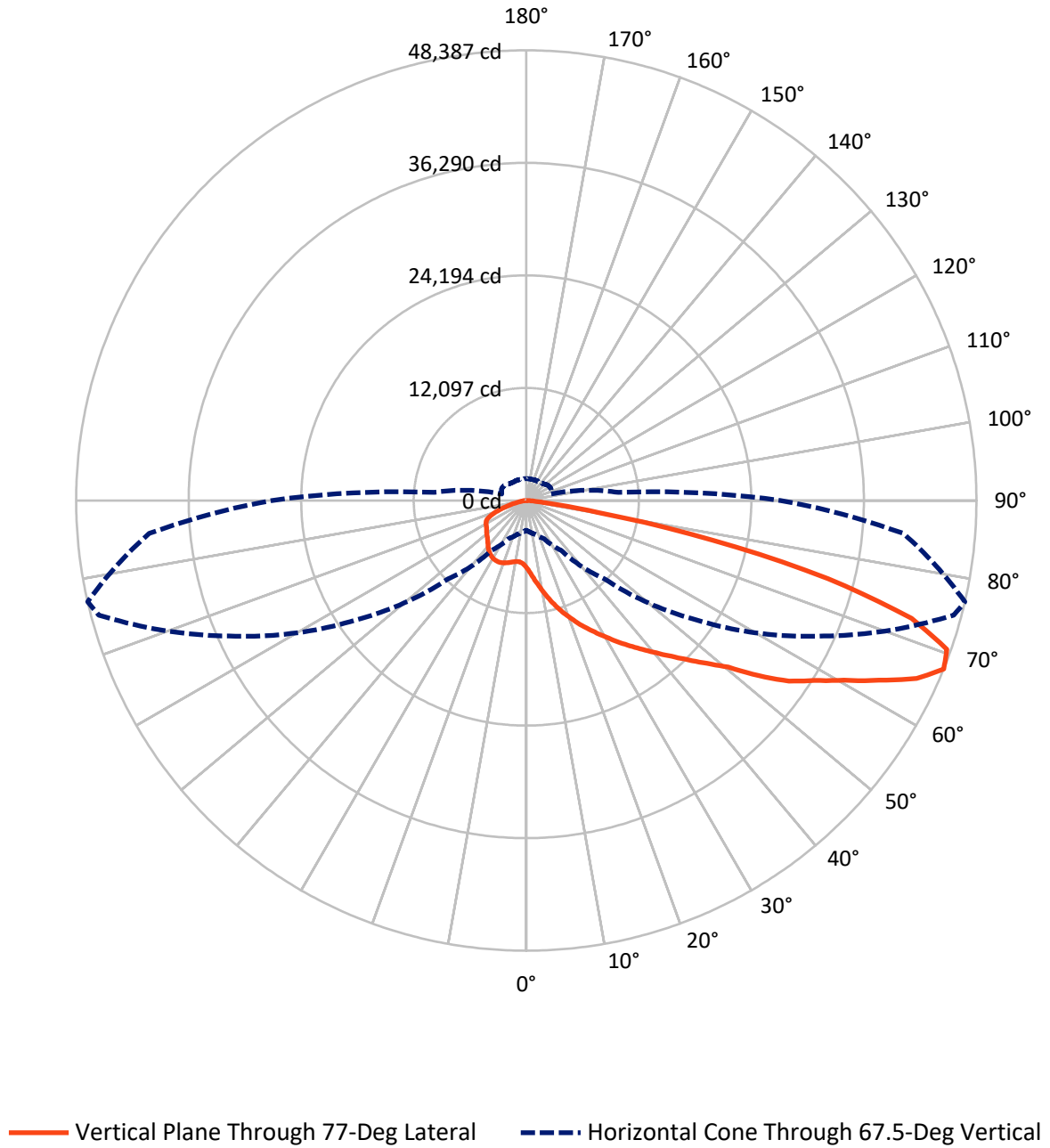
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 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	11667.8	0.0	11667.8
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	50014.2	0.0	50014.2
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	61682.0	0.0	61682.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	775.7	1.3
10°-20°	2786.9	4.5
20°-30°	5261.9	8.5
30°-40°	8476.9	13.7
40°-50°	11594.8	18.8
50°-60°	13079.0	21.2
60°-70°	12207.7	19.8
70°-80°	6691.8	10.8
80°-90°	807.2	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°	61682.0	100.0
0°-180°	61682.0	100.0

**Coefficient of Utilization**

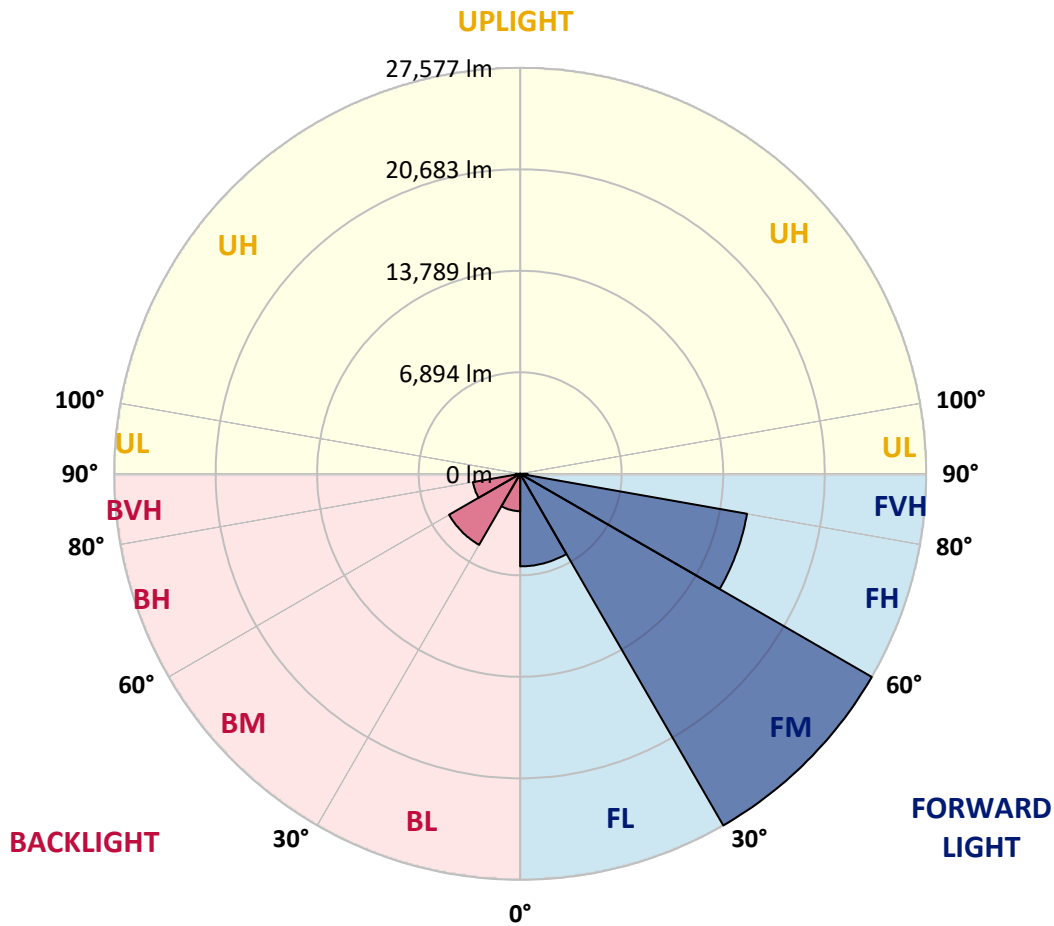


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6287.7	10.2			
FM (30°-60°)	27577.4	44.7			
FH (60°-80°)	15644.4	25.4			G5
FVH (80°-90°)	504.8	0.8			G4/750
BL (0°-30°)	2536.8	4.1	B4/5000		
BM (30°-60°)	5573.4	9.0	B4/8500		
BH (60°-80°)	3255.1	5.3	B4/5000		G4/5000
BVH (80°-90°)	302.4	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2
2.5°	9061.6	9125.3	9045.7	9045.7	8778.3	8638.2	8370.7	8166.9	7800.8	7737.1
5°	10711.0	10790.6	10679.1	10631.4	10316.1	10026.4	9577.4	9134.9	8482.2	8415.3
7.5°	11987.7	12089.6	11990.9	11940.0	11659.8	11335.0	10809.7	10192.0	9271.8	9141.2
10°	13028.9	13044.8	13013.0	13032.1	12812.4	12544.9	12006.8	11287.3	10137.8	9959.5
12.5°	13617.9	13691.2	13754.8	13869.5	13831.3	13665.7	13181.7	12322.1	11054.8	10825.6
15°	13894.9	14022.3	14165.6	14429.9	14643.2	14684.6	14315.2	13433.3	11987.7	11710.7
17.5°	13993.6	14114.6	14340.7	14722.8	15181.3	15490.1	15324.6	14512.6	12911.1	12592.7
20°	14493.5	14528.6	14665.5	15028.4	15525.1	16037.8	16161.9	15550.6	13824.9	13465.1
22.5°	15563.4	15493.3	15531.5	15697.1	16053.7	16550.4	16833.8	16467.6	14764.2	14350.3
25°	17330.5	17126.7	16922.9	16731.9	16913.4	17193.6	17515.1	17384.6	15748.0	15222.7
27.5°	19562.4	19314.1	18865.2	18237.9	18018.2	18116.9	18260.2	18234.7	16658.6	16126.9
30°	21759.4	21469.7	20934.8	20027.3	19447.8	19186.7	19078.5	19005.3	17648.9	17082.1
32.5°	23513.8	23284.5	22759.2	21743.5	20902.9	20457.2	20097.4	19836.3	18683.7	18116.9
35°	25048.5	24835.1	24233.4	23125.3	22211.5	21737.1	21265.9	20708.7	19759.9	19186.7
37.5°	26449.4	26236.1	25411.4	24258.8	23338.7	23010.7	22590.4	21644.8	20839.2	20298.0
40°	27334.6	27286.8	26516.3	25210.9	24255.7	24093.3	23953.2	22730.5	22036.4	21533.3
42.5°	27560.6	27665.7	27054.4	25981.4	25070.8	24940.2	25268.2	23959.5	23380.1	22899.3
45°	27016.2	27318.7	26917.5	26188.3	25650.2	25580.2	26433.5	25303.2	24867.0	24427.6
47.5°	25637.5	26150.1	25984.6	25882.7	25806.3	26108.7	27458.8	26729.6	26551.3	26169.2
50°	22854.7	23825.8	24115.6	24758.7	25497.4	26519.5	28391.7	28286.6	28519.0	28133.8
52.5°	18043.7	19381.0	21062.1	22673.2	24548.6	26382.6	29416.9	30521.8	31502.4	31292.3
55°	14894.7	15496.5	16789.2	19743.9	22708.2	25806.3	29878.6	32327.1	34463.5	34275.7
57.5°	12474.9	13013.0	13809.0	16276.6	19925.4	24497.6	30165.1	33428.7	36491.7	36472.6
60°	9879.9	10449.9	11265.0	13013.0	16674.6	22237.0	30101.5	34683.2	39080.3	39239.5
62.5°	6950.7	7577.9	8482.2	10112.4	13353.7	19307.7	28802.4	35590.7	42127.4	42560.4
65°	4569.0	4982.9	5664.3	7071.6	9950.0	15541.1	26322.1	35708.5	45387.8	46120.1
67.5°	3203.1	3362.3	3763.5	4527.6	6559.0	11917.7	22370.7	34489.0	47562.5	48387.1
70°	2499.4	2579.0	2782.8	3088.5	4120.1	8014.1	17142.6	31317.7	47097.6	47957.3
72.5°	2158.7	2235.2	2311.6	2349.8	2763.7	4947.9	11612.0	26185.2	42719.6	43302.3
75°	1958.2	1977.3	2040.9	2028.2	2107.8	3209.5	6702.3	19078.5	33705.7	33505.2
77.5°	1646.1	1671.6	1776.7	1760.7	1872.2	2193.8	3480.1	12312.5	21851.7	20489.0
80°	1394.6	1407.3	1521.9	1502.8	1627.0	1588.8	1776.7	6275.6	9268.6	7851.7
82.5°	484.0	598.6	1162.2	1197.2	1241.8	961.6	1025.2	2559.9	2830.6	2168.3
85°	235.6	251.5	592.2	840.6	837.4	484.0	499.9	913.8	891.5	700.5
87.5°	38.2	47.8	70.0	328.0	261.1	127.4	171.9	178.3	184.7	159.2
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°
7237.2	0°	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2	7237.2
7495.1	2.5°	7316.8	7157.6	6823.3	6514.4	6272.5	6040.0	5909.5	5798.1	5734.4	5721.6
7845.4	5°	7514.2	7186.3	6578.1	6065.5	5731.2	5482.8	5352.3	5269.5	5228.1	5202.6
8316.6	7.5°	7797.6	7316.8	6450.8	5868.1	5517.9	5339.6	5272.7	5260.0	5256.8	5260.0
8886.5	10°	8189.2	7530.1	6438.0	5820.3	5527.4	5428.7	5425.5	5428.7	5441.4	5444.6
9507.4	12.5°	8612.7	7749.8	6489.0	5861.7	5648.4	5594.3	5584.7	5581.5	5591.1	5597.5
10134.6	15°	9074.4	8039.6	6574.9	5950.9	5782.1	5724.8	5715.3	5696.2	5693.0	5689.8
10793.7	17.5°	9548.8	8326.1	6670.5	6046.4	5868.1	5788.5	5753.5	5708.9	5673.9	5664.3
11475.1	20°	10029.6	8609.5	6737.3	6094.2	5874.5	5763.0	5693.0	5616.6	5556.1	5521.0
12162.9	22.5°	10542.2	8905.6	6778.7	6081.4	5817.2	5664.3	5537.0	5447.8	5355.5	5295.0
12857.0	25°	11042.1	9163.5	6775.5	6014.6	5705.7	5511.5	5349.1	5234.5	5107.1	5043.4
13573.4	27.5°	11522.9	9396.0	6695.9	5896.8	5546.5	5330.0	5135.8	4998.9	4874.7	4814.2
14296.1	30°	12019.6	9590.2	6571.8	5724.8	5358.7	5119.9	4906.5	4788.7	4677.3	4620.0
15060.3	32.5°	12513.1	9768.5	6396.6	5511.5	5142.1	4912.9	4702.8	4594.5	4527.6	4527.6
15881.8	35°	13035.3	9892.7	6164.2	5263.1	4912.9	4693.2	4527.6	4464.0	4457.6	4419.4
16751.0	37.5°	13586.1	9972.3	5880.8	5008.4	4686.8	4479.9	4428.9	4352.5	4288.8	4206.1
17706.2	40°	14165.6	10051.9	5540.1	4744.1	4448.0	4333.4	4311.1	4209.2	4027.8	3824.0
18788.7	42.5°	14869.2	10106.0	5186.7	4479.9	4196.5	4158.3	4190.1	4015.0	3725.3	3572.4
20094.2	45°	15684.3	10195.1	4862.0	4218.8	3938.6	3938.6	4072.3	3843.1	3604.3	3508.8
21584.3	47.5°	16741.4	10402.1	4559.5	3932.2	3699.8	3763.5	3811.2	3636.1	3502.4	3384.6
23399.2	50°	18269.7	10898.8	4247.4	3642.5	3518.3	3645.7	3578.8	3476.9	3320.9	3225.4
26283.9	52.5°	20167.4	11191.7	3970.4	3381.4	3362.3	3489.7	3394.1	3298.6	3180.8	3053.4
28471.3	55°	21460.1	11245.9	3738.0	3190.4	3257.2	3244.5	3209.5	3123.5	3059.8	2891.1
30630.0	57.5°	22905.6	11354.1	3547.0	3075.7	3190.4	3050.3	3037.5	2964.3	2881.5	2766.9
33263.2	60°	24634.5	11522.9	3381.4	3031.2	3133.0	2922.9	2859.2	2830.6	2747.8	2690.5
36431.2	62.5°	26519.5	11675.7	3212.6	3037.5	3066.2	2798.7	2703.2	2693.7	2642.7	2623.6
39405.1	65°	27805.8	11258.6	3002.5	3031.2	2961.1	2671.4	2550.4	2547.2	2505.8	2499.4
40694.6	67.5°	27356.9	9937.2	2719.1	2942.0	2852.9	2544.0	2410.3	2397.5	2343.4	2346.6
39347.8	70°	25109.0	8052.3	2327.5	2722.3	2719.1	2429.4	2263.8	2222.4	2149.2	2161.9
34212.0	72.5°	20893.4	5966.8	1802.1	2356.2	2505.8	2324.3	2095.1	2028.2	1935.9	1948.6
25255.4	75°	15088.9	4056.4	1311.8	1792.6	2181.0	2200.1	1929.5	1814.9	1703.4	1722.5
14057.3	77.5°	7721.2	2298.8	964.7	1235.4	1713.0	1999.5	1779.9	1627.0	1601.5	1779.9
4053.2	80°	2518.5	1152.6	668.6	866.0	1123.9	1636.6	1560.2	1385.0	1378.7	1420.1
850.1	82.5°	751.4	487.2	429.8	569.9	620.9	1254.5	1346.8	1047.5	901.1	948.8
283.4	85°	257.9	235.6	245.2	283.4	296.1	735.5	942.5	694.1	655.9	722.8
63.7	87.5°	60.5	82.8	70.0	63.7	63.7	178.3	366.2	289.7	401.2	267.5
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°  
7237.2  
5721.6  
5199.5  
5269.5  
5447.8  
5600.6  
5686.6  
5673.9  
5533.8  
5298.2  
5043.4  
4811.0  
4616.8  
4530.8  
4409.8  
4193.3  
3795.3  
3575.6  
3524.7  
3381.4  
3215.8  
3028.0  
2894.2  
2728.7  
2706.4  
2623.6  
2496.3  
2346.6  
2174.7  
1945.4  
1728.9  
1754.4  
1219.5  
980.7  
713.2  
257.9  
0.0

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