

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: P944602

Luminaire Tested: **GALN-SB9C-850-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

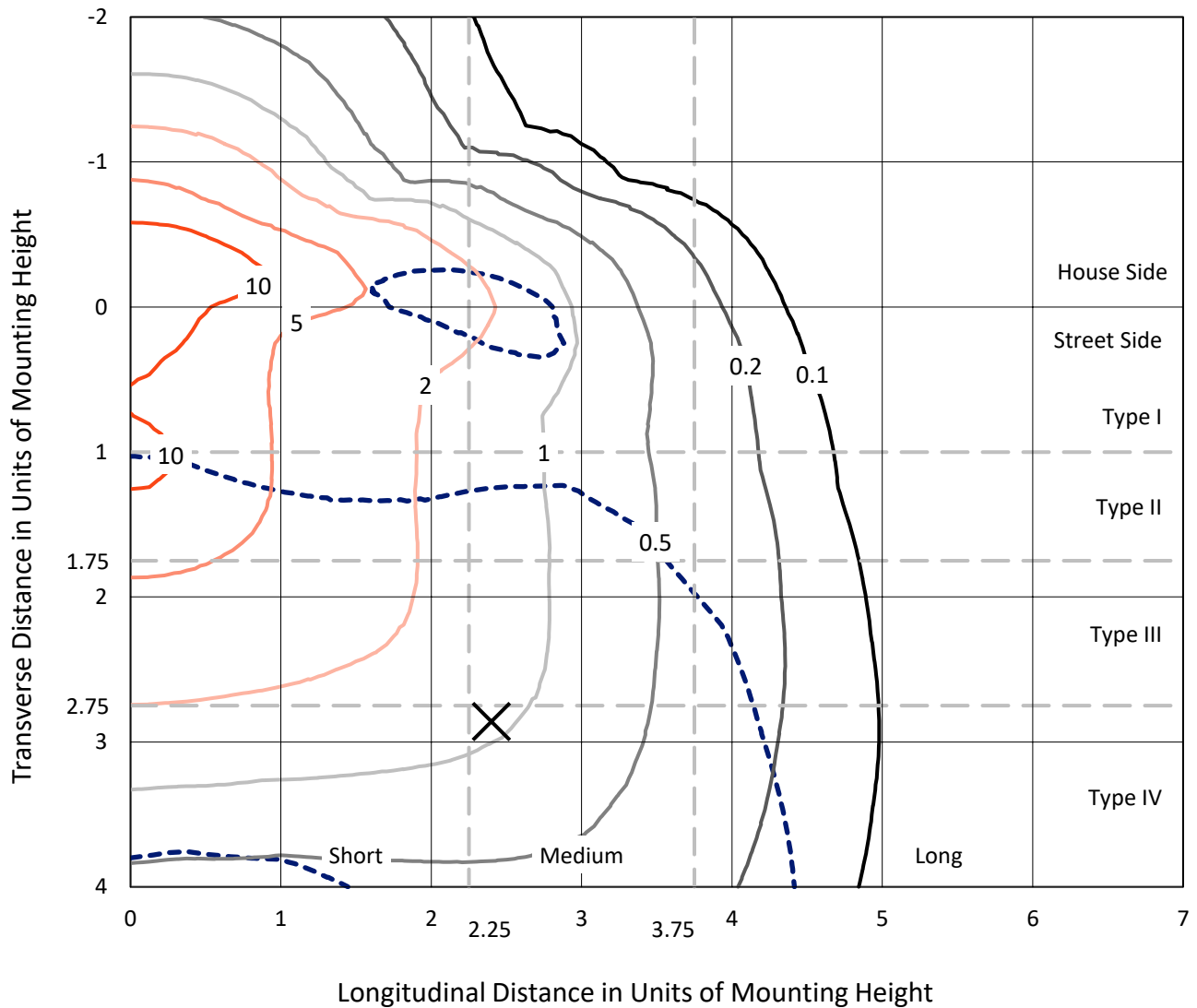
Lumens per Lamp: N/A  
Luminaire Lumens: 64678 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

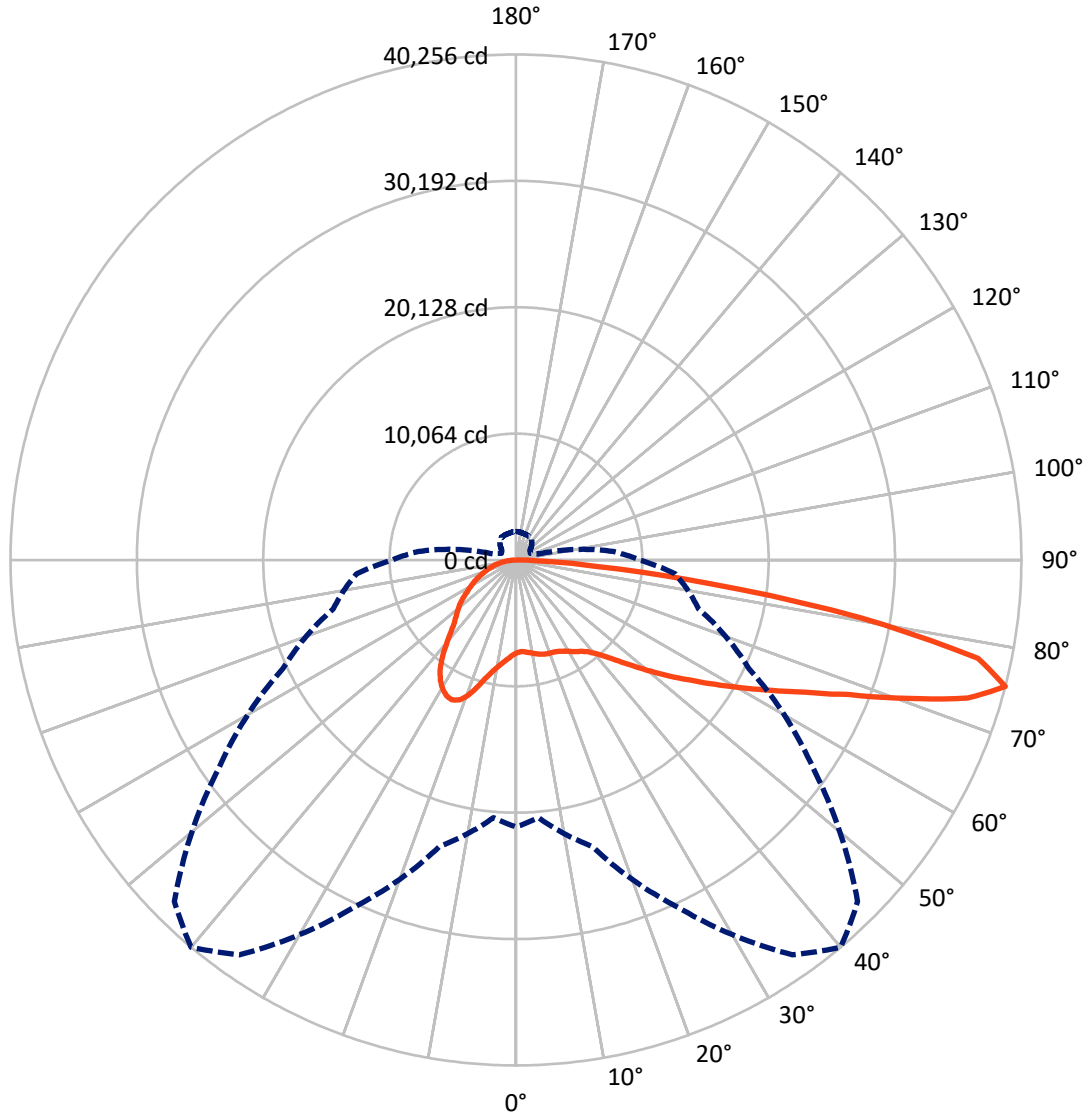
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20039.4	0.0	20039.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	44638.6	0.0	44638.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	64678.0	0.0	64678.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	738.3	1.1
10°-20°	2478.7	3.8
20°-30°	4525.9	7.0
30°-40°	6418.9	9.9
40°-50°	8667.5	13.4
50°-60°	11660.1	18.0
60°-70°	14799.4	22.9
70°-80°	13431.3	20.8
80°-90°	1957.9	3.0
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°	64678.0	100.0
0°-180°	64678.0	100.0

**Coefficient of Utilization**



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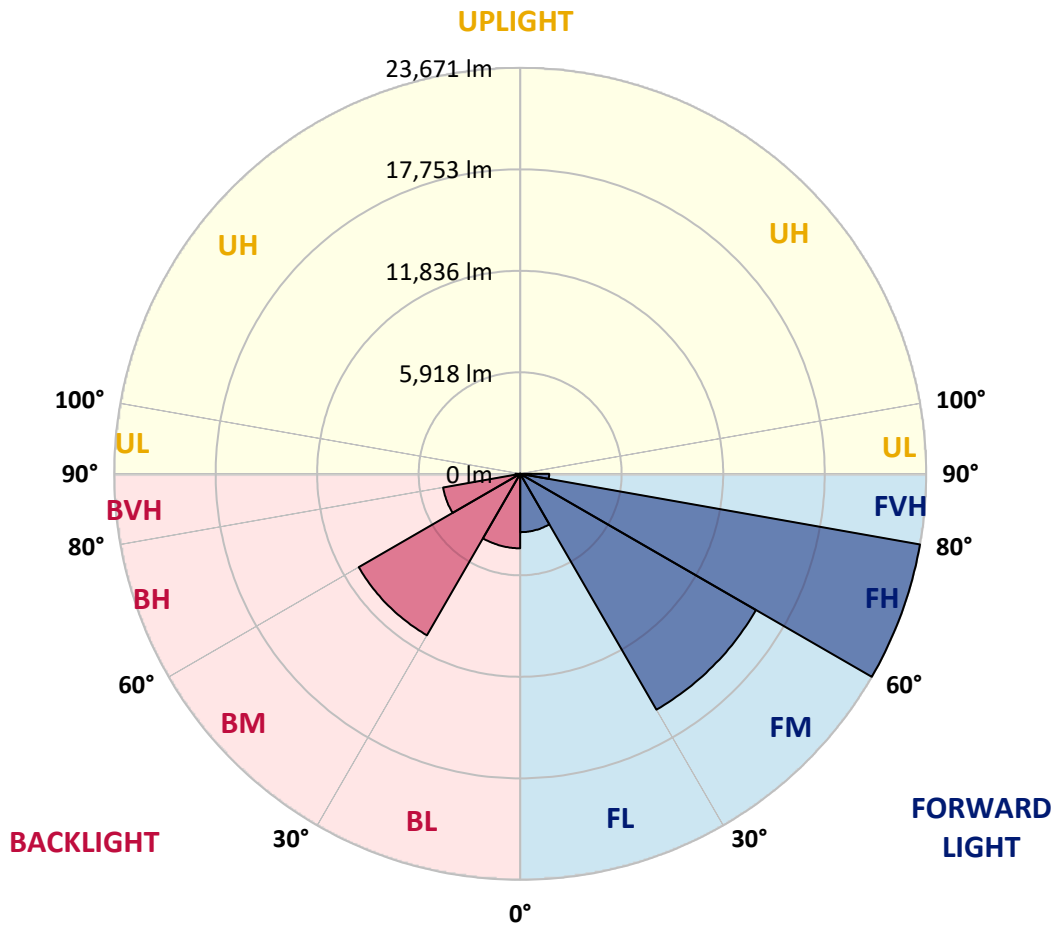
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3402.1	5.3			
FM	(30°-60°)	15877.0	24.5			
FH	(60°-80°)	23671.2	36.6			G5
FVH	(80°-90°)	1688.3	2.6			G5
BL	(0°-30°)	4340.7	6.7	B4/5000		
BM	(30°-60°)	10869.6	16.8	B5		
BH	(60°-80°)	4559.6	7.0	B4/5000		G4/5000
BVH	(80°-90°)	269.6	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0
2.5°	7282.8	7324.0	7313.7	7300.0	7300.0	7303.4	7300.0	7324.0	7348.0	7372.0
5°	7358.3	7399.4	7378.9	7361.7	7348.0	7344.6	7334.3	7330.8	7344.6	7375.4
7.5°	7505.8	7547.0	7516.1	7485.2	7457.8	7444.0	7430.3	7409.7	7399.4	7416.6
10°	7670.5	7711.6	7673.9	7619.0	7574.4	7557.2	7543.5	7522.9	7509.2	7519.5
12.5°	7835.1	7876.3	7824.8	7749.4	7691.0	7680.7	7663.6	7656.7	7653.3	7649.9
15°	7989.5	8023.8	7958.6	7869.4	7807.7	7790.5	7773.4	7783.7	7800.8	7821.4
17.5°	8109.5	8143.9	8047.8	7931.2	7872.8	7866.0	7855.7	7890.0	7938.0	7989.5
20°	8219.3	8253.6	8130.1	7972.3	7903.7	7903.7	7907.2	7979.2	8047.8	8123.3
22.5°	8373.7	8401.1	8250.2	8034.1	7934.6	7941.5	7968.9	8040.9	8126.7	8229.6
25°	8603.5	8624.1	8438.9	8150.7	8037.5	8058.1	8082.1	8116.4	8198.7	8318.8
27.5°	8974.0	8991.2	8747.6	8356.5	8185.0	8219.3	8253.6	8229.6	8267.3	8370.3
30°	9495.4	9505.7	9197.0	8679.0	8435.4	8452.6	8459.4	8360.0	8287.9	8370.3
32.5°	10112.9	10109.5	9742.4	9070.1	8720.2	8703.0	8644.7	8449.2	8281.1	8353.1
35°	11070.0	11032.3	10558.9	9618.9	9042.6	8936.3	8799.1	8548.6	8315.4	8336.0
37.5°	12654.9	12538.2	11883.0	10517.7	9522.9	9251.9	9049.5	8709.9	8390.8	8329.1
40°	14442.1	14294.6	13574.2	11749.2	10243.3	9807.6	9481.7	8939.7	8514.3	8360.0
42.5°	16562.1	16352.9	15577.6	13200.3	11155.8	10524.6	10034.0	9231.3	8696.1	8459.4
45°	19165.8	18888.0	17790.2	14836.6	12305.0	11464.5	10809.3	9673.8	8974.0	8651.6
47.5°	21797.0	21865.6	20304.7	16709.6	13684.0	12624.0	11780.1	10339.3	9378.8	8960.3
50°	24592.8	24640.8	22805.5	18785.1	15248.3	13934.4	12871.0	11083.7	9941.4	9399.4
52.5°	26774.5	26781.4	25076.5	20956.5	16877.7	15375.2	14047.6	11934.5	10593.2	9982.6
55°	28139.8	28122.7	26668.2	23011.4	18750.8	16888.0	15351.2	12901.9	11389.0	10668.6
57.5°	29131.2	29079.8	27765.9	24778.0	20747.3	18675.3	16826.3	13999.6	12329.0	11485.1
60°	29508.6	29477.7	28510.3	26304.6	22846.7	20651.2	18527.8	15227.7	13395.8	12449.0
62.5°	29652.7	29711.0	29241.0	27783.1	25093.6	22839.8	20397.4	16695.9	14596.5	13539.9
65°	30160.4	30266.7	30170.7	29717.8	27632.1	25402.4	22877.6	18442.0	15906.9	14709.7
67.5°	31165.5	31271.8	31313.0	32033.4	30733.3	28596.1	25971.8	20616.9	17440.3	15924.1
70°	31141.5	31110.6	31837.9	33875.5	34616.5	33017.9	30143.2	23292.6	19268.7	16932.6
72.5°	28345.7	28098.7	29817.3	33855.0	37848.0	37635.3	35237.4	26743.7	20846.7	17056.1
75°	21265.3	20606.6	23642.6	30510.3	38386.6	40256.1	38475.7	28884.3	20472.8	15069.9
77.5°	9094.1	8432.0	12009.9	22586.0	34355.8	37631.9	35505.0	25200.0	16342.6	9965.4
80°	2380.7	2377.3	3629.4	10239.8	23364.7	27789.9	24380.1	16274.0	9337.6	3560.8
82.5°	984.5	960.5	1334.4	3982.7	11416.5	15594.8	12726.9	7258.8	3372.1	964.0
85°	367.1	363.6	648.4	1375.6	4027.3	6432.1	4655.1	1855.9	840.5	470.0
87.5°	102.9	99.5	140.6	476.8	981.1	1488.8	795.9	305.3	236.7	185.2
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°
7396.0	0°	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0	7396.0
7409.7	2.5°	7420.0	7437.2	7468.1	7492.1	7522.9	7557.2	7605.3	7636.1	7667.0	7687.6
7426.9	5°	7450.9	7488.6	7567.5	7646.4	7739.1	7824.8	7924.3	7996.3	8054.7	8071.8
7488.6	7.5°	7519.5	7581.3	7715.0	7848.8	7996.3	8137.0	8281.1	8404.6	8504.0	8541.8
7598.4	10°	7639.6	7721.9	7910.6	8099.3	8294.8	8510.9	8696.1	8874.5	9015.2	9073.5
7728.8	12.5°	7790.5	7893.4	8140.4	8401.1	8672.1	8970.6	9210.7	9430.3	9605.2	9684.1
7910.6	15°	7986.1	8119.8	8435.4	8785.3	9183.3	9598.4	9903.7	10147.2	10342.8	10438.8
8099.3	17.5°	8198.7	8377.1	8775.0	9303.3	9872.8	10418.2	10775.0	10953.4	11155.8	11248.4
8274.2	20°	8404.6	8624.1	9193.6	9962.0	10720.1	11299.8	11588.0	11636.0	11649.8	11660.0
8438.9	22.5°	8617.2	8912.3	9718.4	10792.1	11605.2	12006.5	12047.7	11841.9	11553.7	11419.9
8600.1	25°	8850.5	9241.6	10404.5	11708.1	12366.7	12414.7	12099.1	11598.3	11052.9	10802.4
8730.5	27.5°	9076.9	9622.4	11227.8	12582.8	12915.6	12493.6	11814.4	11104.3	10445.7	10181.5
8823.1	30°	9303.3	10058.0	12136.9	13347.8	13166.0	12298.1	11365.0	10572.6	9910.5	9632.7
8905.4	32.5°	9533.2	10565.7	13183.2	13900.1	13121.4	11883.0	10805.9	9975.7	9392.5	9100.9
8977.4	35°	9793.9	11190.1	14174.6	14202.0	12823.0	11272.4	10068.3	9262.2	8754.5	8521.2
9063.2	37.5°	10133.5	11982.5	15049.3	14277.5	12301.5	10377.1	9152.4	8418.3	7999.8	7893.4
9190.1	40°	10555.4	12936.2	15718.2	14157.4	11529.7	9289.6	8150.7	7564.1	7327.4	7351.4
9361.7	42.5°	11104.3	14003.0	16188.2	13848.7	10456.0	8167.9	7272.5	7011.8	7125.0	7221.1
9618.9	45°	11817.8	15111.1	16479.8	13323.8	9241.6	7217.6	6754.5	6816.3	6902.0	6912.3
10034.0	47.5°	12730.3	16232.8	16671.9	12531.4	8003.2	6548.7	6425.2	6438.9	6421.8	6349.7
10654.9	50°	13869.2	17323.7	16843.4	11481.7	6950.1	6130.2	5965.5	5917.5	5680.8	5447.5
11481.7	52.5°	15165.9	18325.4	16915.5	10178.1	6130.2	5780.3	5512.7	5210.8	4768.3	4696.3
12521.1	55°	16606.7	19251.6	16730.2	8576.1	5440.7	5330.9	4926.1	4562.5	4514.5	4452.7
13889.8	57.5°	18328.8	20249.9	16352.9	6788.8	4734.0	4806.0	4411.5	4452.7	4366.9	4270.9
15649.6	60°	20212.1	21282.4	15690.8	5159.4	4003.3	4150.8	4277.8	4274.3	4250.3	4171.4
17505.5	62.5°	21906.8	21961.6	14387.2	3951.9	3361.8	3643.1	3989.6	3986.2	3965.6	3921.0
19443.7	65°	22915.3	21858.7	12212.3	3111.4	2833.5	3224.6	3598.5	3626.0	3629.4	3626.0
20901.6	67.5°	22736.9	20654.6	9227.9	2476.8	2397.9	2799.2	3210.9	3248.6	3276.1	3282.9
21086.9	70°	20719.8	18009.8	6017.0	1975.9	2010.2	2425.3	2843.8	2881.6	2905.6	2933.0
18297.9	72.5°	16150.5	13241.5	3444.2	1598.6	1670.6	2102.9	2480.2	2524.8	2538.5	2590.0
12733.8	75°	9841.9	7787.1	1859.3	1259.0	1372.2	1797.5	2120.0	2171.5	2195.5	2257.2
6253.7	77.5°	4679.1	3372.1	1060.0	981.1	1104.6	1468.2	1790.7	1849.0	1783.8	1818.1
1725.5	80°	1581.4	1252.1	668.9	747.8	843.9	1145.8	1433.9	1492.2	1355.0	1348.2
572.9	82.5°	552.3	507.7	425.4	497.4	545.4	819.9	1084.0	1159.5	1008.5	1005.1
257.3	85°	216.1	205.8	236.7	271.0	325.9	504.3	713.5	751.3	620.9	500.8
75.5	87.5°	44.6	48.0	58.3	61.7	99.5	175.0	257.3	315.6	250.4	212.7
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

180°  
7396.0  
7673.9  
8078.7  
8545.2  
9076.9  
9684.1  
10431.9  
11245.0  
11687.5  
11457.6  
10840.2  
10212.4  
9663.5  
9138.7  
8572.7  
7968.9  
7433.8  
7310.3  
6980.9  
6404.6  
5478.4  
4720.3  
4463.0  
4253.7  
4144.0  
3903.8  
3626.0  
3289.8  
2946.7  
2610.6  
2264.1  
1790.7  
1334.4  
957.1  
494.0  
195.5  
0.0

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