

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: P944599

Luminaire Tested: **GALN-SB9C-840-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944599  
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-SB9C-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

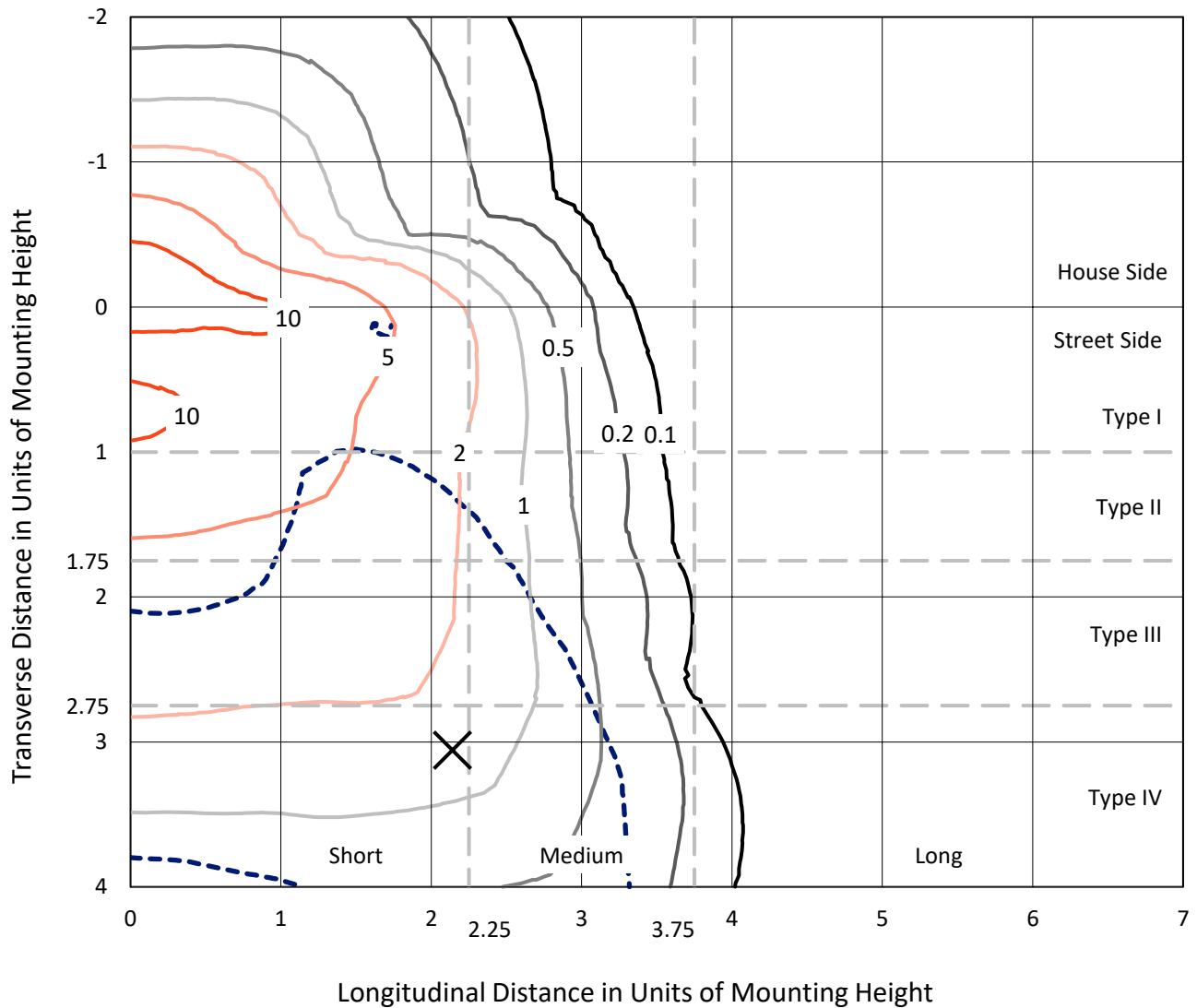
Lumens per Lamp: N/A  
Luminaire Lumens: 64489 lumens  
Efficiency: N/A  
Efficacy: 143.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

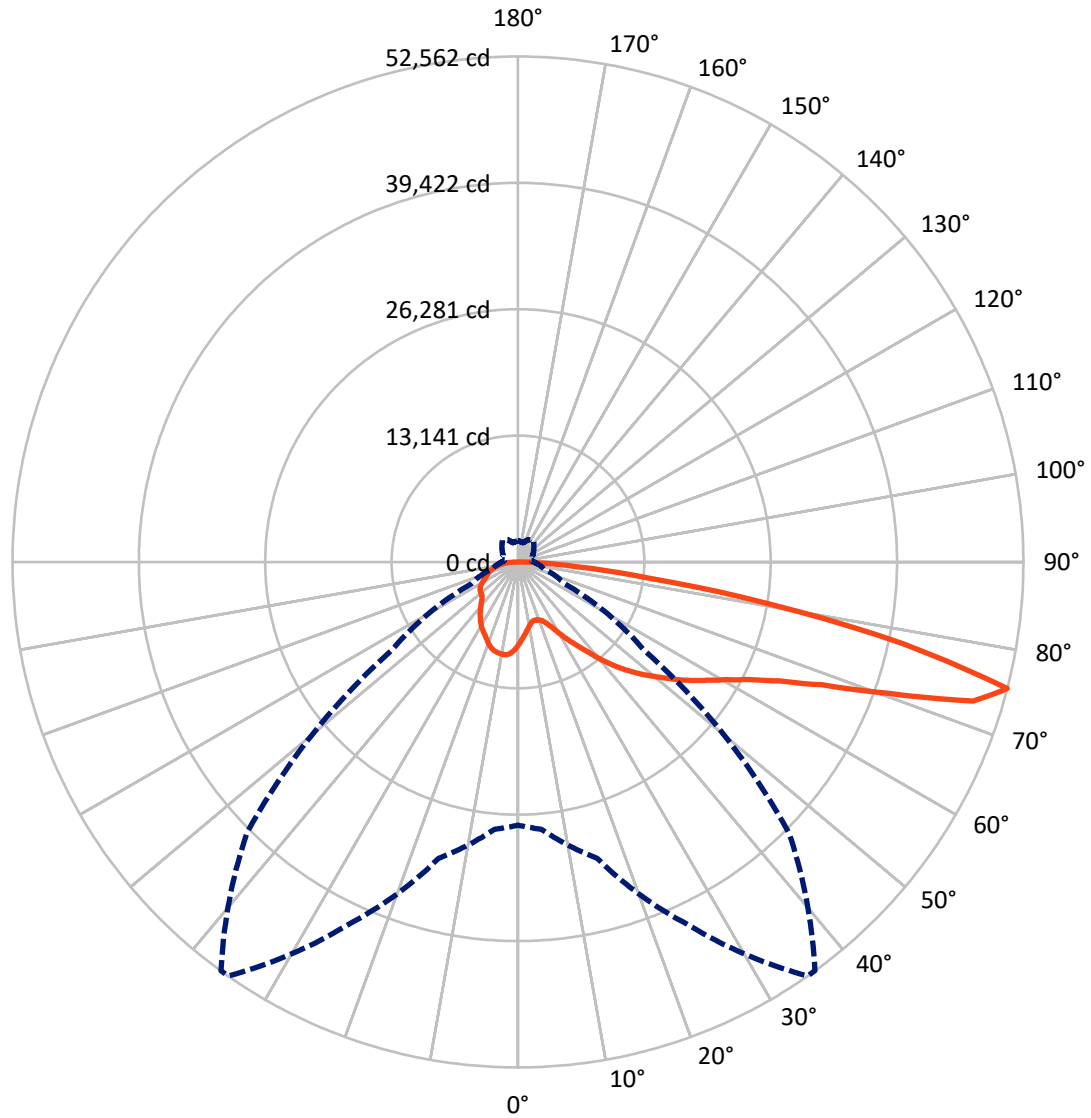
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15346.8	0.0	15346.8
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	49142.2	0.0	49142.2
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	64489.0	0.0	64489.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	813.6	1.3
10°-20°	2346.9	3.6
20°-30°	3941.0	6.1
30°-40°	6124.9	9.5
40°-50°	9091.0	14.1
50°-60°	12550.7	19.5
60°-70°	15226.9	23.6
70°-80°	12583.9	19.5
80°-90°	1809.9	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°	64489.0	100.0
0°-180°	64489.0	100.0



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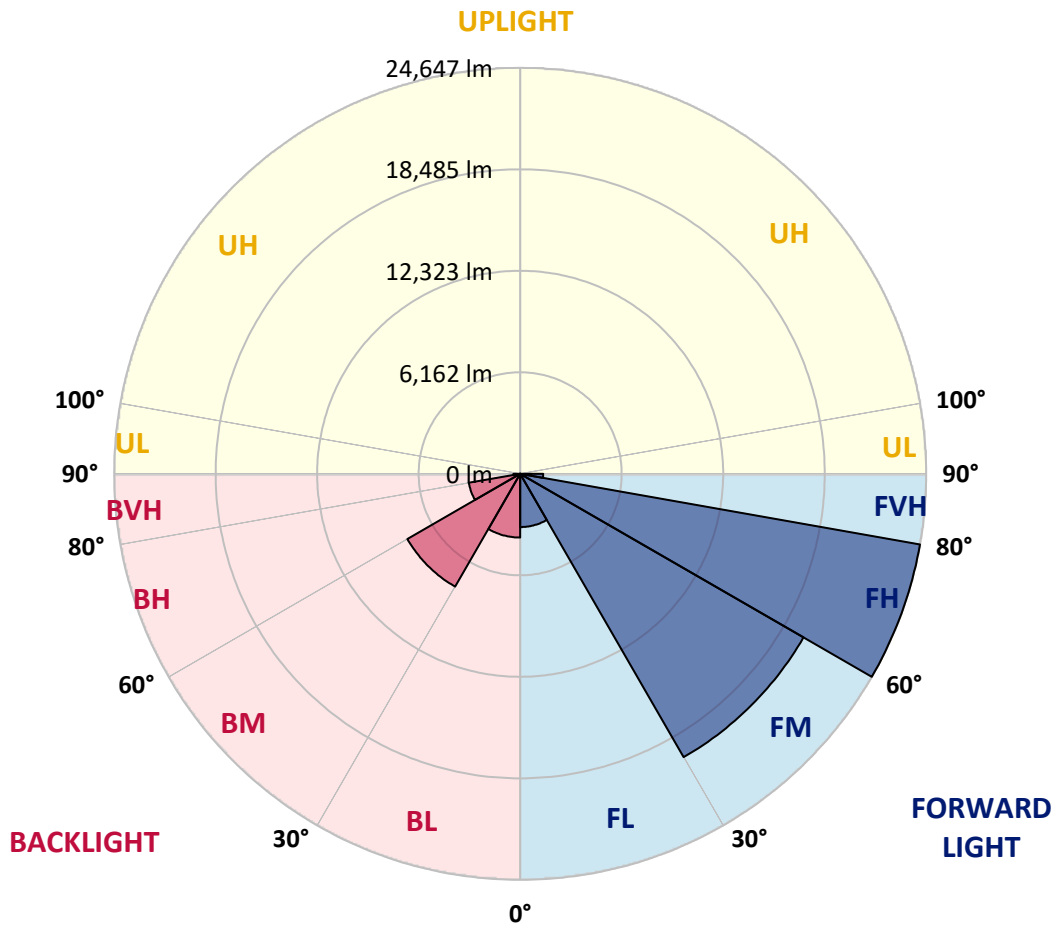
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3234.0	5.0			
FM (30°-60°)	19859.1	30.8			
FH (60°-80°)	24646.7	38.2			G5
FVH (80°-90°)	1402.4	2.2			G5
BL (0°-30°)	3867.6	6.0	B4/5000		
BM (30°-60°)	7907.6	12.3	B4/8500		
BH (60°-80°)	3164.0	4.9	B4/5000		G4/5000
BVH (80°-90°)	407.6	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°	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6
2.5°	7924.2	7973.0	7994.0	7983.5	8035.8	8028.8	8102.0	8192.7	8318.2	8440.2
5°	7314.1	7366.4	7411.8	7453.6	7554.7	7586.1	7701.1	7875.4	8105.5	8339.1
7.5°	6745.9	6791.2	6860.9	6937.6	7108.5	7139.8	7331.6	7603.5	7924.2	8265.9
10°	6282.2	6327.5	6400.7	6487.9	6700.6	6738.9	6983.0	7345.5	7763.9	8196.2
12.5°	6083.5	6097.4	6139.3	6226.4	6411.2	6435.6	6704.1	7118.9	7607.0	8143.9
15°	6073.0	6100.9	6104.4	6149.7	6303.1	6313.6	6561.1	6972.5	7509.4	8133.4
17.5°	6177.6	6198.5	6167.2	6195.1	6324.0	6341.5	6536.7	6902.8	7478.0	8178.7
20°	6456.5	6474.0	6379.8	6341.5	6435.6	6449.6	6641.3	6948.1	7509.4	8272.9
22.5°	7049.2	7059.6	6829.6	6672.7	6679.6	6686.6	6854.0	7132.9	7631.4	8443.7
25°	7973.0	7966.1	7600.0	7296.7	7122.4	7084.1	7195.6	7432.7	7837.1	8670.3
27.5°	9053.8	9001.5	8635.4	8182.2	7802.2	7746.4	7722.0	7823.1	8129.9	8970.1
30°	10274.0	10225.2	9831.2	9238.6	8712.1	8621.5	8391.4	8339.1	8565.7	9378.0
32.5°	11612.7	11581.3	11110.7	10392.5	9688.3	9583.7	9196.7	9057.3	9235.1	9995.1
35°	12735.3	12707.4	12316.9	11577.8	10716.7	10587.7	10193.8	10036.9	10127.5	10786.4
37.5°	13749.8	13735.8	13401.1	12818.9	11929.9	11773.1	11330.3	11278.0	11260.6	11828.8
40°	14691.0	14656.2	14307.6	14000.8	13341.9	13198.9	12808.5	12763.1	12630.7	13111.8
42.5°	15733.4	15642.8	15137.3	14994.3	14816.5	14698.0	14464.4	14471.4	14178.6	14558.6
45°	16584.1	16531.8	16012.3	15928.7	16120.4	16071.6	16273.8	16326.1	15757.8	16075.1
47.5°	17497.5	17448.7	17009.4	16950.1	17469.6	17483.5	18198.2	18215.6	17298.8	17650.9
50°	18623.5	18553.8	18118.0	18191.2	18773.4	18825.7	20133.1	20014.5	18717.7	19251.0
52.5°	19366.1	19407.9	19313.8	19432.3	20227.2	20276.0	22036.6	21733.3	20122.6	20830.3
55°	19913.4	19997.1	20289.9	20561.9	21761.1	21810.0	23832.0	23368.3	21287.0	22294.5
57.5°	20617.7	20499.1	21046.5	21576.4	23218.4	23347.4	25578.6	24944.1	22318.9	23556.6
60°	21628.7	21545.0	21970.3	22754.7	24850.0	25055.6	27426.3	26363.0	23075.5	24557.1
62.5°	23678.6	23469.4	23535.6	24229.4	26906.8	27178.8	29511.1	27600.6	23452.0	24947.6
65°	26743.0	26383.9	26049.2	26530.3	29803.9	30072.4	31864.3	28573.3	23312.5	24191.1
67.5°	30602.3	30246.7	29835.3	30288.5	34071.1	34283.7	34768.3	29120.6	22214.4	21276.6
70°	33785.2	33652.7	34144.3	36009.4	40886.7	40893.7	38491.6	28667.4	19205.7	15085.0
72.5°	33363.4	33283.2	35873.5	41639.7	49476.8	49292.0	42016.2	25236.9	12937.5	6805.2
75°	27370.5	27890.0	31902.6	41538.6	52562.1	52537.7	39858.2	16043.7	5351.4	2820.4
77.5°	14677.1	15499.8	20711.8	30668.5	41033.1	41650.2	28022.4	5612.9	2297.4	1805.9
80°	4786.6	5504.8	8255.4	15614.9	26662.8	26547.8	12010.1	2203.3	1572.3	1279.5
82.5°	2032.5	2116.2	3688.4	7373.4	13683.5	13470.9	3824.4	1265.5	1105.1	875.0
85°	794.9	889.0	1628.1	3409.5	5926.6	5797.6	1380.6	627.5	707.7	571.7
87.5°	261.5	317.2	582.2	1167.9	1844.2	1778.0	338.2	216.1	306.8	261.5
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°
8593.6	0°	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6	8593.6
8618.0	2.5°	8666.8	8722.6	8788.8	8886.4	8970.1	9039.8	9113.0	9158.4	9175.8	9228.1
8631.9	5°	8729.6	8851.6	9015.4	9175.8	9332.7	9426.8	9510.5	9552.3	9590.7	9618.6
8670.3	7.5°	8834.1	8991.0	9249.0	9458.2	9590.7	9667.4	9723.1	9709.2	9723.1	9730.1
8712.1	10°	8924.8	9144.4	9451.2	9649.9	9751.0	9754.5	9740.6	9691.8	9667.4	9670.8
8774.9	12.5°	9032.9	9276.9	9608.1	9775.4	9803.3	9726.6	9667.4	9583.7	9552.3	9538.4
8869.0	15°	9179.3	9458.2	9778.9	9841.7	9771.9	9674.3	9573.2	9437.3	9367.5	9311.8
9029.4	17.5°	9357.1	9663.9	9911.4	9866.1	9716.2	9555.8	9391.9	9186.3	9043.3	8984.1
9249.0	20°	9604.6	9880.0	10012.5	9813.8	9587.2	9343.1	9064.2	8813.2	8680.8	8621.5
9527.9	22.5°	9904.4	10169.4	10110.1	9723.1	9402.4	9011.9	8663.3	8478.5	8412.3	8370.5
9887.0	25°	10263.5	10490.1	10179.8	9590.7	9099.1	8572.7	8304.2	8245.0	8213.6	8182.2
10326.3	27.5°	10730.7	10852.7	10232.1	9395.4	8625.0	8105.5	8007.9	8018.4	8007.9	7955.6
10936.4	30°	11347.7	11323.3	10280.9	9078.2	8081.1	7683.7	7690.7	7736.0	7743.0	7708.1
11787.0	32.5°	12160.0	11912.5	10305.3	8666.8	7561.7	7314.1	7321.1	7369.9	7404.8	7345.5
12899.1	35°	13143.1	12599.3	10267.0	8150.8	7160.7	6962.0	6909.7	6923.7	6934.1	6878.4
14248.3	37.5°	14290.1	13369.8	10096.2	7579.1	6829.6	6616.9	6505.3	6411.2	6355.4	6303.1
15775.3	40°	15548.7	14209.9	9782.4	7021.3	6460.0	6250.8	6083.5	5905.7	5717.4	5647.7
17392.9	42.5°	16866.5	15074.5	9402.4	6487.9	6034.7	5863.9	5686.1	5428.1	5145.7	5002.8
19073.2	45°	18233.1	15960.0	9029.4	5961.5	5598.9	5525.7	5320.0	5009.7	4702.9	4521.7
20757.1	47.5°	19571.8	16796.7	8482.0	5431.6	5191.0	5271.2	5110.8	4825.0	4483.3	4197.4
22427.0	50°	20851.2	17581.1	7586.1	4894.7	4859.8	5194.5	5041.1	4629.7	4239.3	3873.2
24065.6	52.5°	22120.2	18215.6	6439.1	4406.6	4682.0	5173.6	4950.5	4497.3	4019.6	3636.2
25606.5	55°	23197.5	18543.3	5334.0	3988.3	4424.0	4995.8	4842.4	4340.4	3709.4	3301.5
26662.8	57.5°	23811.1	18278.4	4413.6	3576.9	4068.4	4702.9	4657.6	4005.7	3339.8	3026.1
26868.5	60°	23546.1	17204.6	3660.6	3217.8	3730.3	4385.7	4336.9	3674.5	3057.4	2761.1
25766.8	62.5°	22085.4	15158.2	3064.4	2904.0	3423.5	4061.5	4016.2	3420.0	2841.3	2555.4
22841.9	65°	19143.0	12330.9	2600.7	2642.6	3113.2	3671.0	3737.3	3207.3	2670.5	2391.6
17671.8	67.5°	14600.4	8931.8	2238.2	2416.0	2809.9	3287.5	3479.3	3054.0	2527.5	2262.6
10225.2	70°	8321.7	5072.5	1931.4	2196.3	2541.5	2931.9	3280.6	2931.9	2374.1	2154.5
3831.4	72.5°	3155.1	2328.8	1669.9	1976.7	2283.5	2632.1	3060.9	2740.2	2196.3	2032.5
1980.2	75°	1683.9	1418.9	1405.0	1718.7	1987.2	2339.3	2785.5	2551.9	2063.9	2147.5
1370.1	77.5°	1147.0	1004.0	1174.9	1471.2	1662.9	2015.0	2492.7	2266.1	1788.4	1781.5
948.3	80°	794.9	711.2	955.2	1185.3	1286.4	1694.3	2175.4	1945.3	1457.3	1359.6
585.7	82.5°	477.6	463.7	714.7	885.5	909.9	1307.3	1802.4	1631.6	1192.3	1038.9
348.6	85°	261.5	275.4	456.7	519.5	529.9	913.4	1411.9	1262.0	916.9	770.5
125.5	87.5°	73.2	94.1	167.3	205.7	254.5	474.1	840.2	749.5	460.2	320.7
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>
8593.6
9224.6
9625.5
9740.6
9677.8
9531.4
9329.2
8987.5
8614.5
8377.4
8182.2
7966.1
7725.5
7373.4
6916.7
6338.0
5679.1
5020.2
4507.7
4166.1
3841.8
3594.3
3266.6
2984.2
2719.3
2510.1
2346.2
2220.7
2126.6
2004.6
2217.3
1642.0
1300.4
1045.9
777.4
320.7
0.0

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