

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: P949983

Luminaire Tested: **GALN-SB4C-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

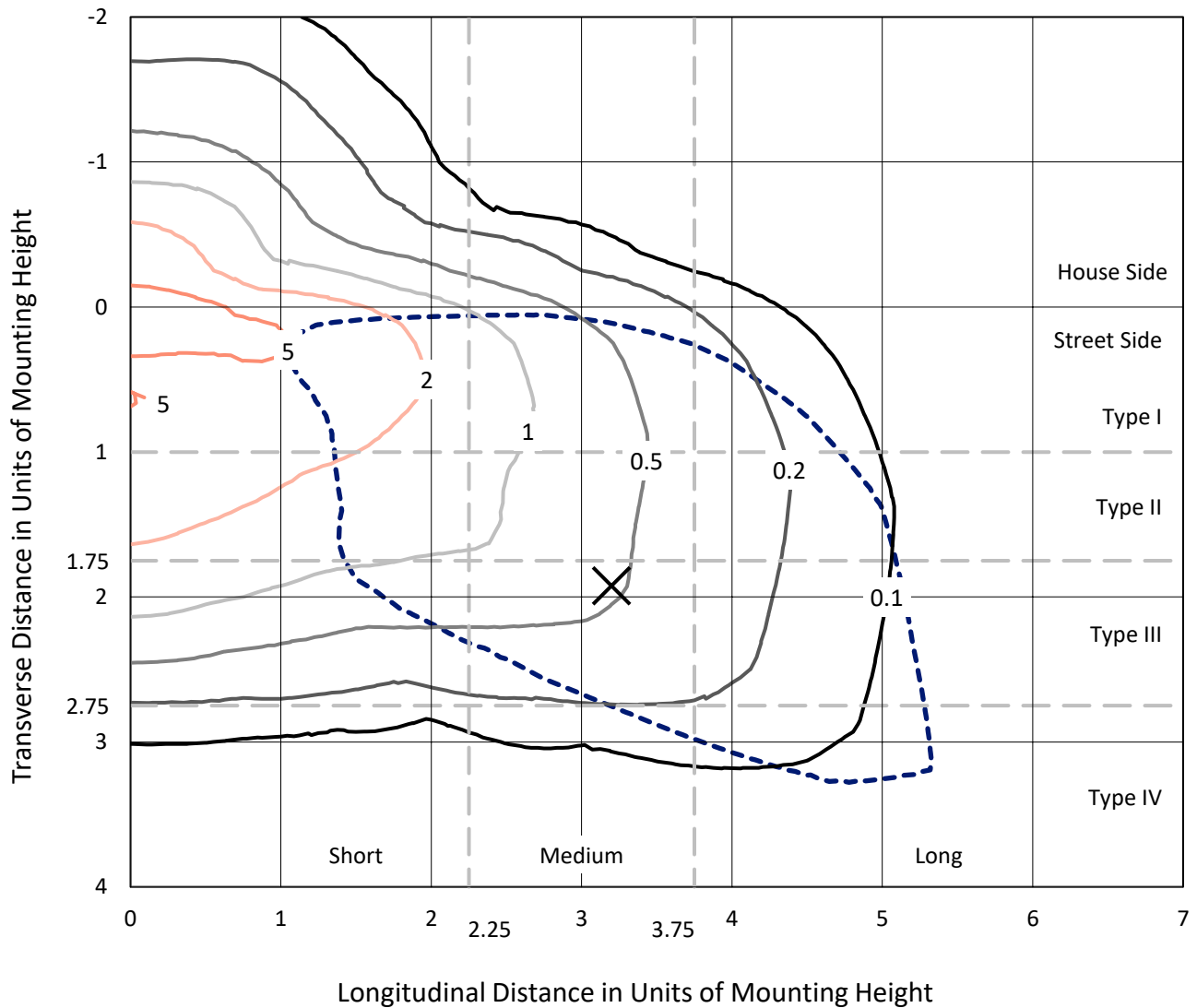
Lumens per Lamp: N/A  
Luminaire Lumens: 25508 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

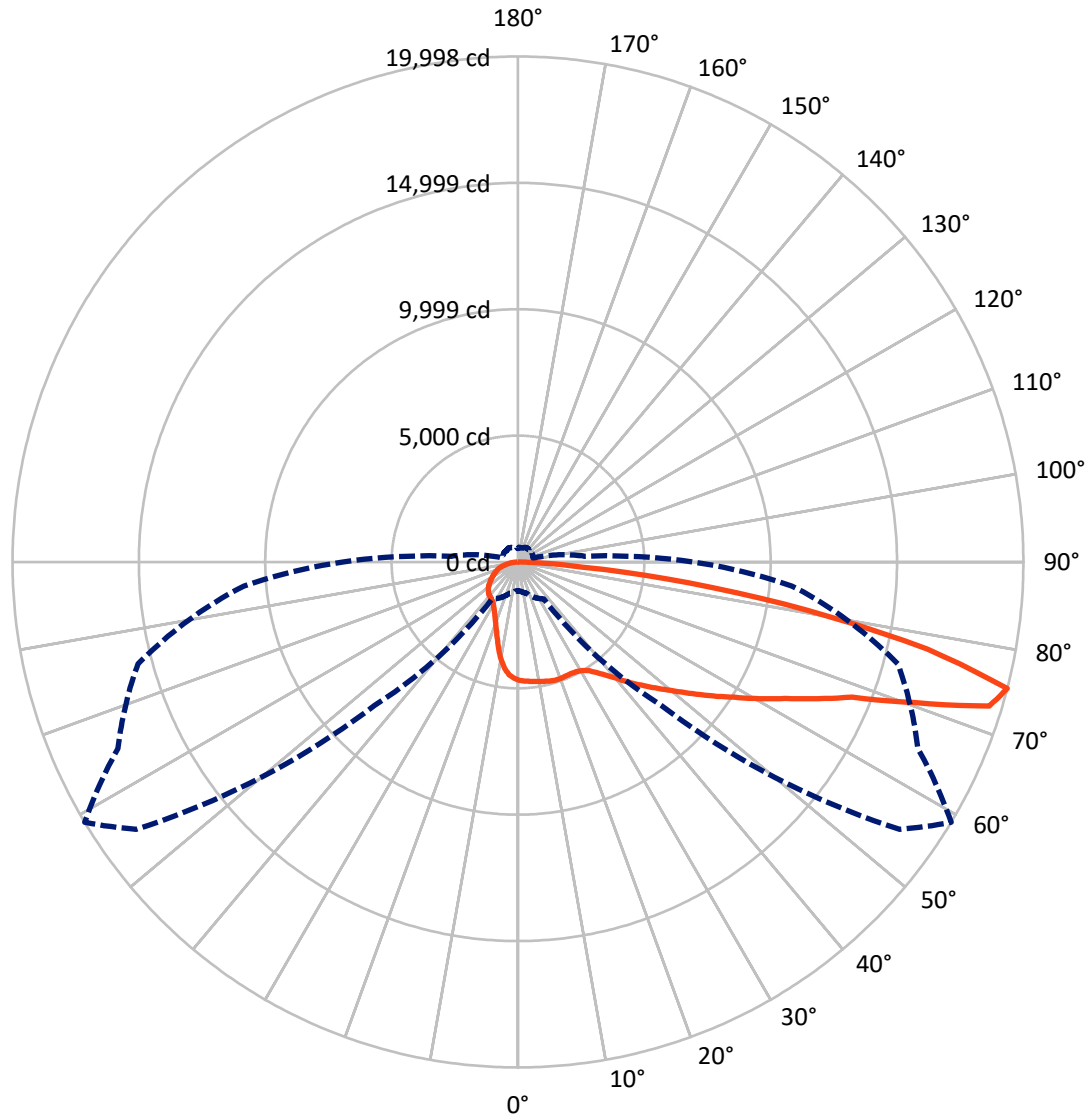
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4784.2	0.0	4784.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	20723.8	0.0	20723.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	25508.0	0.0	25508.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.8	1.6
10°-20°	1073.1	4.2
20°-30°	1629.9	6.4
30°-40°	2422.8	9.5
40°-50°	3603.1	14.1
50°-60°	4890.8	19.2
60°-70°	5970.9	23.4
70°-80°	4685.9	18.4
80°-90°	811.7	3.2
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°	25508.0	100.0
0°-180°	25508.0	100.0



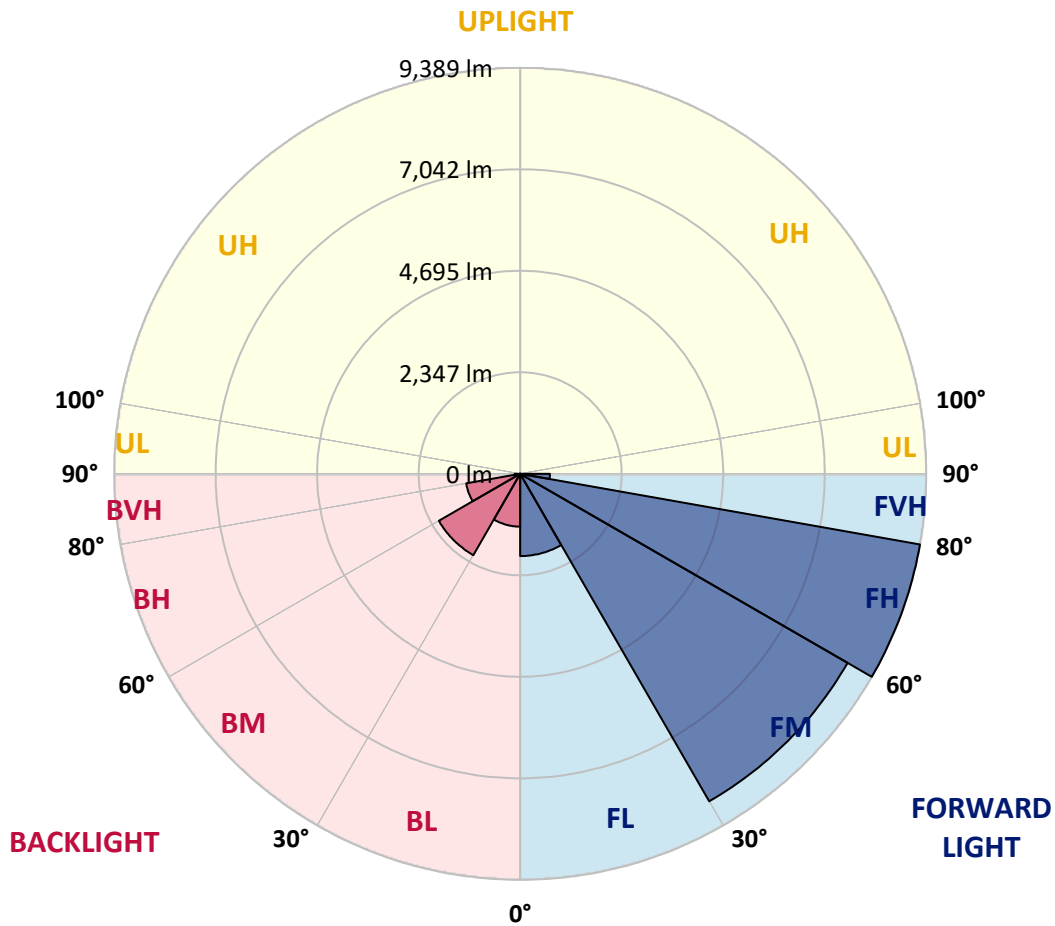
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1901.9	7.5			
FM (30°-60°)	8745.2	34.3			
FH (60°-80°)	9389.3	36.8			G4/12000
FVH (80°-90°)	687.5	2.7			G4/750
BL (0°-30°)	1220.9	4.8	B3/2500		
BM (30°-60°)	2171.5	8.5	B2/2500		
BH (60°-80°)	1267.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	124.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9
2.5°	4721.7	4705.3	4721.7	4714.9	4712.1	4706.6	4708.0	4717.6	4712.1	4719.0
5°	4690.2	4680.6	4697.0	4692.9	4710.8	4713.5	4731.3	4742.3	4749.2	4750.5
7.5°	4638.0	4628.4	4651.7	4671.0	4709.4	4720.4	4757.4	4775.2	4784.9	4801.3
10°	4447.3	4443.2	4500.8	4573.5	4664.1	4720.4	4776.6	4806.8	4821.9	4865.8
12.5°	4109.7	4115.2	4190.7	4330.7	4511.8	4692.9	4798.6	4842.5	4865.8	4920.7
15°	3787.3	3785.9	3868.2	4017.8	4271.6	4572.2	4809.6	4885.0	4924.8	5005.8
17.5°	3600.6	3595.2	3652.8	3766.7	4002.7	4386.9	4782.1	4908.3	4993.4	5095.0
20°	3566.3	3555.4	3585.6	3641.8	3809.2	4183.8	4710.8	4908.3	5048.3	5180.0
22.5°	3691.2	3673.4	3661.0	3654.2	3728.3	4016.4	4629.8	4891.9	5129.3	5302.2
25°	3942.3	3914.9	3851.8	3790.0	3768.1	3941.0	4558.4	4887.8	5250.0	5466.8
27.5°	4348.5	4314.2	4186.6	4038.4	3905.3	3979.4	4526.9	4912.5	5383.1	5641.1
30°	4852.1	4815.0	4654.5	4426.7	4187.9	4122.1	4566.7	4985.2	5553.3	5873.0
32.5°	5303.5	5262.4	5125.2	4893.3	4570.8	4369.1	4692.9	5123.8	5820.9	6195.5
35°	5704.2	5656.2	5532.7	5318.6	5040.1	4716.2	4920.7	5369.4	6201.0	6719.6
37.5°	6096.7	6040.4	5905.9	5679.5	5484.7	5178.7	5234.9	5685.0	6705.9	7356.3
40°	6535.8	6454.8	6291.5	6067.9	5878.5	5720.7	5648.0	6072.0	7219.1	8067.1
42.5°	6961.2	6884.3	6689.5	6498.7	6261.3	6216.1	6126.9	6524.8	7780.4	8847.9
45°	7419.5	7327.5	7091.5	6850.0	6700.4	6545.4	6590.7	6977.6	8330.6	9643.8
47.5°	7849.0	7746.1	7467.5	7198.5	7116.2	6822.6	7016.0	7475.7	8902.8	10450.7
50°	8080.9	7979.3	7747.4	7504.5	7440.1	7164.2	7477.1	8023.2	9502.5	11254.8
52.5°	8274.3	8164.6	7861.3	7726.8	7707.6	7536.1	8045.2	8649.0	10102.1	11965.6
55°	8480.2	8358.1	7971.1	7850.3	7938.2	7953.3	8718.9	9358.4	10736.1	12658.5
57.5°	8717.6	8562.5	8076.8	7954.6	8163.2	8441.8	9492.9	10093.9	11359.0	13300.7
60°	8941.2	8784.8	8279.8	8120.7	8406.1	9008.5	10380.7	10984.4	12064.4	13872.9
62.5°	8985.1	8856.2	8441.8	8440.4	8735.4	9669.9	11431.8	11883.2	12680.5	14438.3
65°	8224.9	8144.0	7898.4	8428.0	9207.4	10622.2	12602.3	13033.1	13464.0	14932.2
67.5°	6260.0	6270.9	6253.1	7275.4	8826.0	11990.3	14296.9	14264.0	14431.4	15486.6
70°	2862.4	2926.9	3346.8	5022.2	7070.9	12148.1	17098.9	16672.2	15645.8	16204.3
72.5°	1546.5	1595.9	1767.4	2432.9	4251.1	10800.6	19192.9	19496.2	17260.9	16687.3
75°	1134.8	1162.3	1281.6	1546.5	1785.2	8027.4	18442.3	19998.4	17462.6	15560.7
77.5°	849.4	861.7	959.2	1225.4	913.9	4231.9	14736.0	16562.4	14948.7	12784.8
80°	616.1	629.8	702.6	919.4	640.8	1547.8	10118.6	11625.3	10238.0	8149.5
82.5°	425.4	430.9	462.4	625.7	447.3	601.0	5741.3	6817.1	5715.2	2859.7
85°	256.6	263.5	277.2	365.0	253.9	285.4	2478.2	2563.3	1708.4	683.4
87.5°	105.7	112.5	123.5	153.7	100.2	79.6	408.9	513.2	319.7	200.3
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°
4681.9	0°	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9	4681.9
4695.7	2.5°	4688.8	4679.2	4653.1	4617.4	4584.5	4543.3	4525.5	4510.4	4496.7	4470.6
4732.7	5°	4717.6	4691.5	4621.6	4531.0	4428.1	4315.6	4205.8	4130.3	4065.8	4017.8
4775.2	7.5°	4761.5	4712.1	4584.5	4399.3	4163.2	3921.7	3703.6	3548.5	3431.9	3389.3
4835.6	10°	4806.8	4747.8	4525.5	4198.9	3791.4	3419.5	3130.0	2970.8	2877.5	2847.3
4907.0	12.5°	4860.3	4773.9	4433.6	3920.4	3375.6	2968.1	2715.6	2622.3	2574.2	2557.8
4994.8	15°	4938.5	4795.8	4295.0	3571.8	2979.0	2638.7	2475.4	2411.0	2386.3	2384.9
5085.4	17.5°	4997.5	4799.9	4079.5	3198.6	2674.4	2439.8	2305.3	2280.6	2297.1	2321.8
5174.6	20°	5063.4	4762.9	3796.9	2858.3	2460.3	2265.5	2209.2	2225.7	2265.5	2301.2
5292.6	22.5°	5110.1	4695.7	3455.2	2593.5	2275.1	2165.3	2162.6	2196.9	2218.8	2236.7
5431.2	25°	5151.2	4581.8	3092.9	2371.2	2122.8	2105.0	2135.1	2124.2	2109.1	2124.2
5569.7	27.5°	5181.4	4402.0	2769.1	2176.3	2015.8	2063.8	2045.9	2021.2	2019.9	2028.1
5733.0	30°	5171.8	4161.9	2502.9	1991.1	1940.3	1986.9	1944.4	1940.3	1936.2	1940.3
5978.7	32.5°	5171.8	3888.8	2298.4	1863.4	1892.3	1874.4	1870.3	1860.7	1844.2	1842.9
6312.1	35°	5200.6	3615.7	2122.8	1794.8	1852.5	1809.9	1812.7	1789.3	1755.0	1738.6
6754.0	37.5°	5259.6	3396.2	1948.5	1761.9	1782.5	1781.1	1770.1	1730.3	1670.0	1617.8
7305.6	40°	5402.3	3331.7	1829.1	1746.8	1749.6	1766.0	1737.2	1660.4	1523.1	1438.1
7865.4	42.5°	5626.0	3440.1	1803.1	1709.8	1727.6	1744.1	1687.8	1509.4	1412.0	1361.2
8452.7	45°	5910.1	3629.5	1859.3	1656.2	1675.5	1704.3	1536.9	1451.8	1407.9	1409.2
9034.5	47.5°	6269.6	3828.4	1963.6	1609.6	1600.0	1616.4	1436.7	1384.5	1324.2	1339.3
9593.0	50°	6685.3	4030.1	2062.4	1546.5	1516.3	1462.8	1372.2	1322.8	1246.0	1210.3
10132.3	52.5°	7135.4	4225.0	2102.2	1469.6	1425.7	1364.0	1328.3	1267.9	1174.6	1115.6
10641.4	55°	7562.2	4402.0	2058.3	1377.7	1335.1	1287.1	1281.6	1244.6	1144.4	1062.1
11094.2	57.5°	7965.6	4550.2	1948.5	1284.4	1243.2	1214.4	1251.4	1233.6	1107.4	1001.7
11522.3	60°	8307.3	4651.7	1789.3	1189.7	1160.9	1145.8	1202.0	1196.6	1055.2	937.2
11906.6	62.5°	8579.0	4691.5	1613.7	1099.1	1092.3	1064.8	1133.4	1133.4	989.4	874.1
12244.1	65°	8791.7	4653.1	1435.3	1009.9	1023.7	982.5	1049.7	1041.5	919.4	817.8
12632.4	67.5°	8979.7	4526.9	1237.7	922.1	953.7	901.5	961.9	942.7	842.5	761.6
12968.6	70°	9063.4	4233.2	1012.7	834.3	872.7	821.9	874.1	838.4	756.1	701.2
12599.5	72.5°	8391.0	3518.3	797.2	742.4	775.3	734.1	779.4	738.2	662.8	638.1
10880.2	75°	6941.9	2640.1	613.4	642.2	666.9	635.3	665.5	635.3	566.7	584.6
8037.0	77.5°	5041.5	1782.5	469.3	536.5	547.5	531.0	557.1	522.8	461.1	456.9
4005.4	80°	2507.0	1044.2	367.7	424.0	419.9	408.9	439.1	422.6	370.5	392.4
1081.3	82.5°	725.9	447.3	267.6	297.8	289.5	292.3	314.2	322.5	483.0	478.9
336.2	85°	227.8	175.6	160.5	166.0	157.8	161.9	185.2	367.7	340.3	199.0
104.3	87.5°	59.0	60.4	39.8	42.5	43.9	52.1	59.0	223.7	107.0	70.0
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>
4681.9
4458.3
3978.0
3315.2
2800.7
2561.9
2390.4
2331.4
2313.5
2246.3
2133.8
2041.8
1955.4
1860.7
1755.0
1635.7
1449.0
1361.2
1416.1
1377.7
1219.9
1114.2
1062.1
996.2
933.1
870.0
812.3
756.1
690.2
617.5
533.8
436.4
388.3
489.9
215.4
74.1
0.0

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