

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: P954275

Luminaire Tested: **GALN-SB7C-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954275  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7C-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

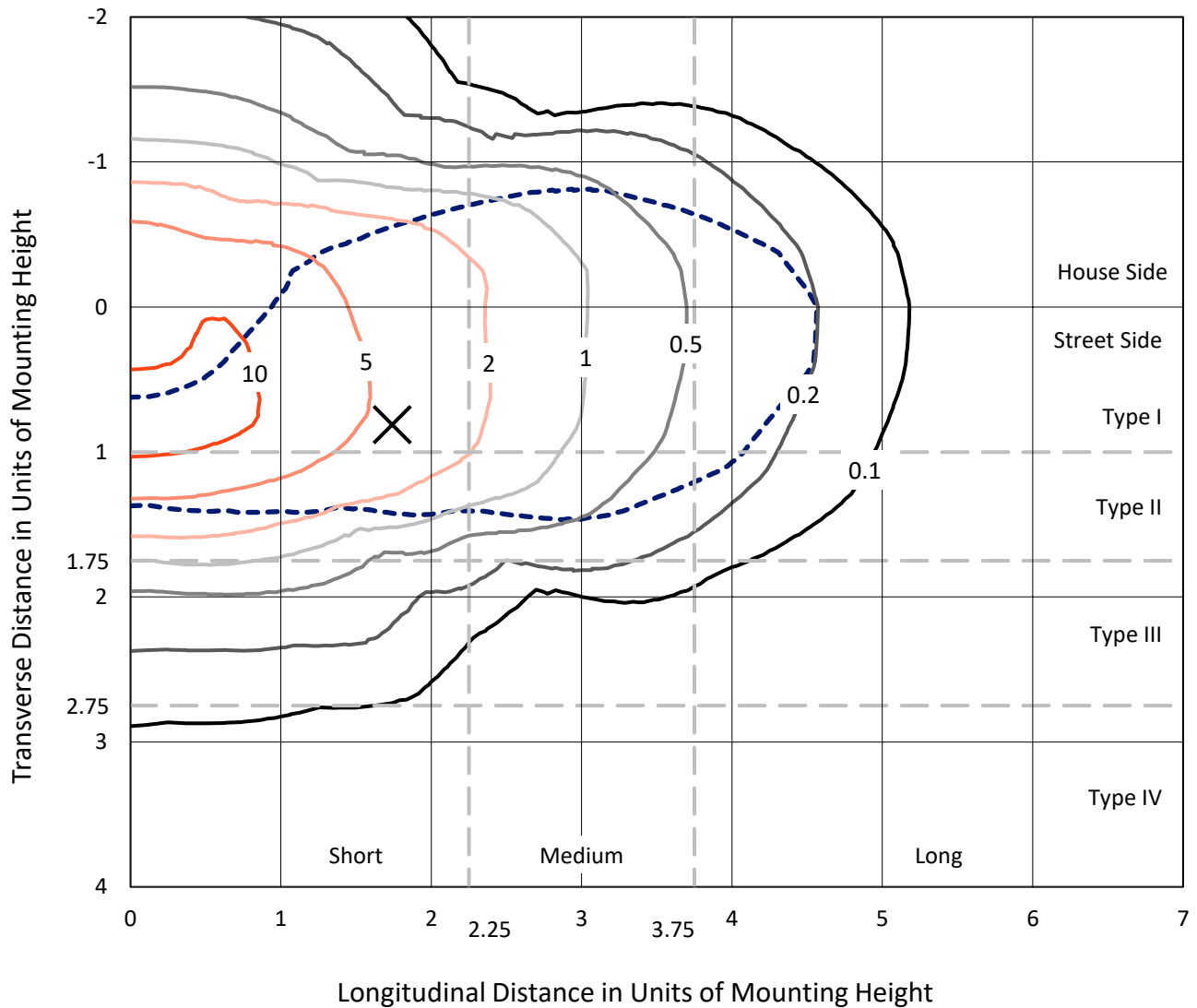
Lumens per Lamp: N/A  
Luminaire Lumens: 46934 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

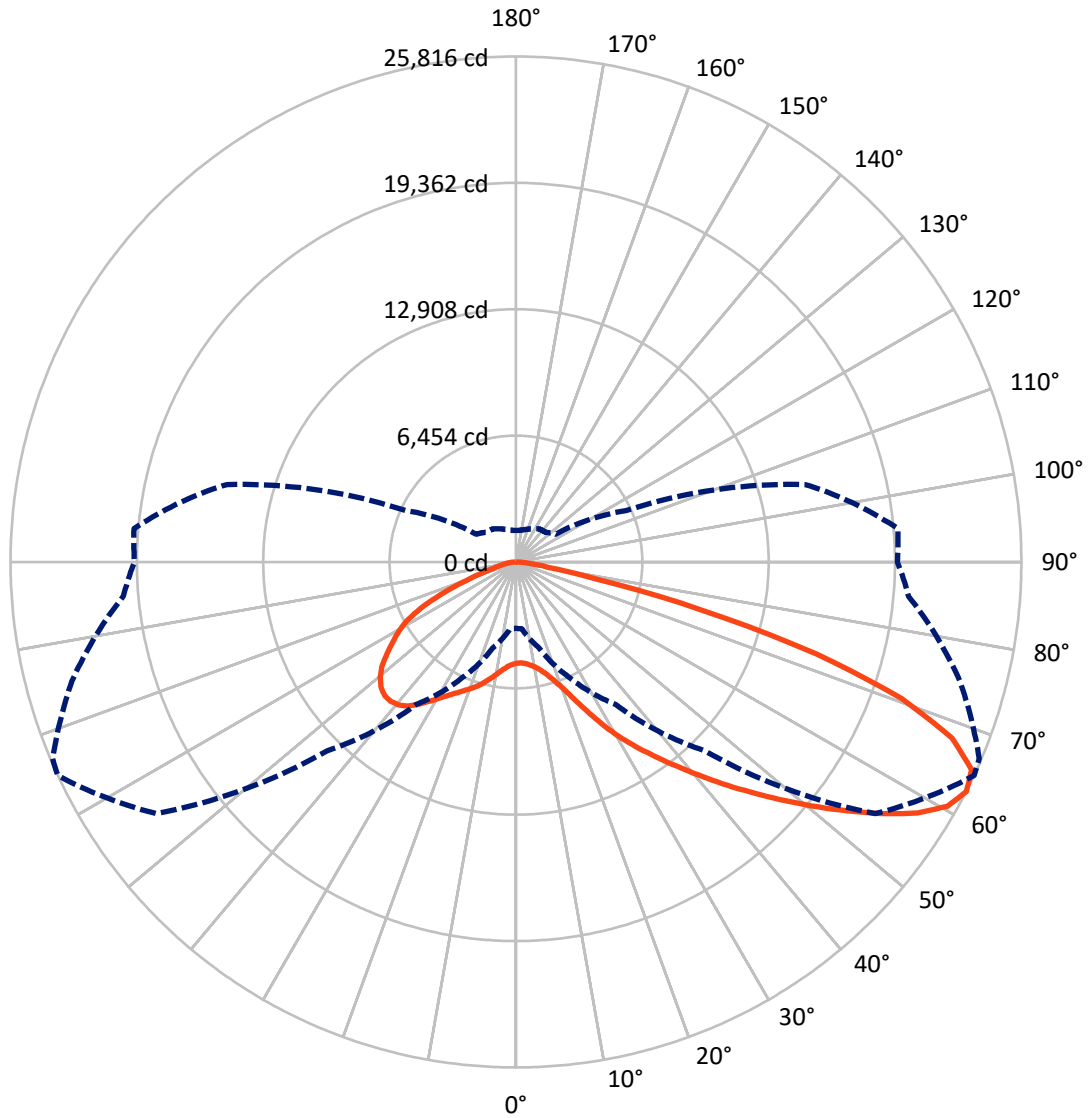
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14810.3	0.0	14810.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	32123.7	0.0	32123.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	46934.0	0.0	46934.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.6	1.1
10°-20°	1748.6	3.7
20°-30°	3545.4	7.6
30°-40°	6135.3	13.1
40°-50°	9284.5	19.8
50°-60°	10885.5	23.2
60°-70°	9126.2	19.4
70°-80°	5038.4	10.7
80°-90°	654.5	1.4
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°	46934.0	100.0
0°-180°	46934.0	100.0

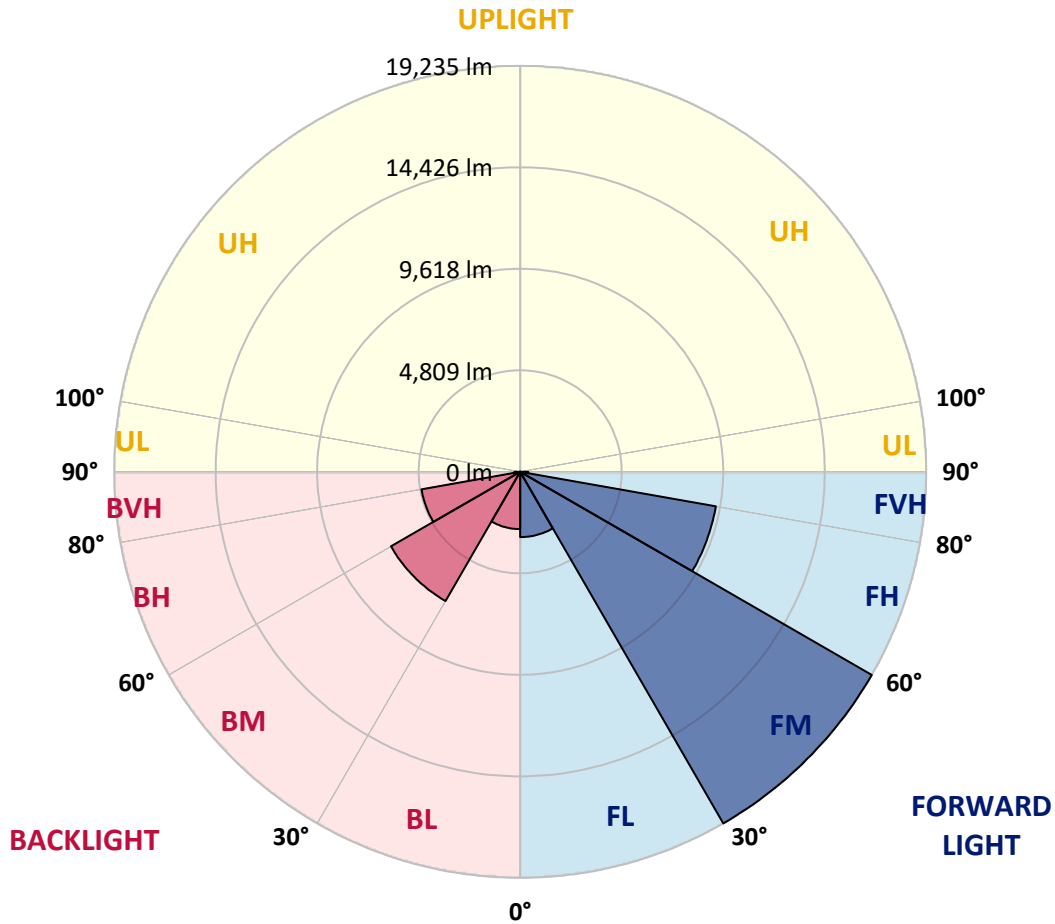


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3093.6	6.6			
FM (30°-60°)	19235.1	41.0			
FH (60°-80°)	9413.6	20.1			G4/12000
FVH (80°-90°)	381.4	0.8			G3/500
BL (0°-30°)	2716.0	5.8	B4/5000		
BM (30°-60°)	7070.2	15.1	B4/8500		
BH (60°-80°)	4751.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	273.0	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-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9
2.5°	5137.8	5123.2	5135.4	5135.4	5140.3	5137.8	5154.9	5159.7	5167.1	5181.7
5°	5086.7	5084.3	5106.2	5125.7	5145.1	5162.2	5184.1	5215.8	5220.6	5237.7
7.5°	5069.7	5055.0	5089.1	5113.5	5159.7	5201.1	5259.6	5313.2	5335.1	5342.4
10°	5201.1	5176.8	5208.4	5223.1	5262.0	5303.4	5371.6	5456.8	5481.2	5510.4
12.5°	5425.2	5398.4	5444.6	5466.6	5503.1	5539.6	5585.9	5668.7	5680.8	5734.4
15°	5732.0	5700.3	5729.5	5756.3	5817.2	5851.3	5897.6	5977.9	5977.9	6019.3
17.5°	6148.4	6107.0	6128.9	6138.6	6177.6	6228.7	6306.6	6377.2	6413.8	6399.2
20°	6769.3	6718.1	6718.1	6669.4	6654.8	6696.2	6798.5	6895.9	6934.9	6859.4
22.5°	7701.9	7628.8	7587.4	7421.9	7356.1	7361.0	7463.3	7582.6	7614.2	7480.3
25°	8887.7	8773.3	8717.3	8473.8	8325.2	8196.2	8276.5	8429.9	8473.8	8308.2
27.5°	10073.6	10080.9	10027.3	9735.1	9489.2	9253.0	9211.6	9372.3	9418.5	9231.1
30°	11736.7	11563.8	11461.5	11110.9	10760.2	10429.1	10258.6	10324.4	10336.5	10112.5
32.5°	13170.9	13127.0	12907.9	12601.1	12150.6	11632.0	11347.1	11242.4	11222.9	10903.9
35°	14804.8	14780.4	14549.1	14183.8	13696.8	12976.1	12462.3	12162.8	12138.4	11690.4
37.5°	16465.4	16465.4	16239.0	15839.6	15335.6	14434.6	13653.0	13178.2	13100.3	12515.9
40°	17790.1	17709.7	17751.1	17583.1	17006.0	16049.0	14975.2	14286.1	14181.4	13480.1
42.5°	18542.5	18515.7	18764.0	18951.5	18715.3	17950.8	16431.3	15486.5	15340.5	14541.8
45°	18710.5	18681.3	19124.4	19811.1	20142.3	19828.1	18014.1	16750.3	16572.6	15652.1
47.5°	18323.3	18264.9	18915.0	19998.6	21060.2	21613.0	19728.3	18121.2	17863.1	16733.3
50°	17159.4	17103.4	18087.1	19526.2	21369.5	22825.6	21588.6	19574.9	19180.4	17892.3
52.5°	14629.4	14656.2	16197.6	18174.8	20962.8	23580.5	23190.9	21106.5	20631.7	19078.2
55°	11395.8	11454.2	13348.6	15525.5	19336.3	23466.0	24284.2	22684.4	22212.0	20193.4
57.5°	8159.7	8417.8	10192.9	12347.8	16212.2	21652.0	24522.8	24184.3	23726.6	21410.9
60°	5288.8	5335.1	7161.3	9333.3	12345.4	18428.0	24038.2	25321.5	24963.5	22652.7
62.5°	3389.5	3421.2	4534.0	6528.2	8885.3	13633.5	22406.8	25815.8	25706.2	23473.3
65°	2491.0	2466.6	3046.2	4314.8	5985.2	8408.0	19238.9	25577.2	25793.9	23987.1
67.5°	2079.5	2045.4	2330.3	2987.7	4409.8	4775.0	14235.0	24026.1	24819.9	23928.7
70°	1894.4	1865.2	2038.1	2218.3	3440.6	3197.1	7175.9	20887.4	22109.7	23263.9
72.5°	1604.7	1553.5	1789.7	1969.9	2676.1	2452.0	2965.8	16044.2	17534.4	21133.3
75°	1244.3	1210.2	1412.3	1733.7	2011.3	1913.9	1874.9	9742.4	11369.0	16343.7
77.5°	986.2	939.9	1125.0	1351.4	1809.2	1444.0	1366.0	4195.5	5807.5	10433.9
80°	742.7	701.3	854.7	1069.0	1390.4	1088.4	883.9	1711.8	2189.1	5286.4
82.5°	528.4	491.9	596.6	784.1	935.0	976.4	543.0	959.4	1078.7	2038.1
85°	338.5	316.5	399.3	491.9	594.1	628.2	331.2	501.6	550.3	840.1
87.5°	185.1	151.0	214.3	228.9	275.2	250.8	158.3	182.6	197.2	304.4
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°
5171.9	0°	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9	5171.9
5181.7	2.5°	5191.4	5198.7	5223.1	5230.4	5247.4	5269.3	5283.9	5298.5	5298.5	5313.2
5259.6	5°	5262.0	5279.1	5330.2	5357.0	5400.8	5444.6	5471.4	5503.1	5522.6	5532.3
5383.8	7.5°	5398.4	5425.2	5498.2	5544.5	5620.0	5680.8	5722.2	5766.1	5775.8	5802.6
5556.7	10°	5583.4	5615.1	5697.9	5785.5	5875.6	5951.1	5990.1	6021.7	6033.9	6038.8
5778.2	12.5°	5795.3	5841.5	5948.7	6055.8	6150.8	6216.5	6226.3	6219.0	6184.9	6155.7
6051.0	15°	6055.8	6097.2	6216.5	6333.4	6425.9	6438.1	6377.2	6338.3	6296.9	6289.6
6355.3	17.5°	6367.5	6389.4	6499.0	6613.4	6620.7	6579.3	6489.3	6452.7	6413.8	6387.0
6752.2	20°	6730.3	6723.0	6800.9	6849.6	6798.5	6671.9	6535.5	6474.6	6435.7	6404.0
7239.2	22.5°	7163.7	7107.7	7098.0	7085.8	6949.5	6684.1	6499.0	6421.1	6360.2	6316.4
7918.6	25°	7794.4	7580.1	7431.6	7348.8	7042.0	6618.3	6382.1	6209.2	6094.8	6019.3
8748.9	27.5°	8583.3	8223.0	7848.0	7645.9	7042.0	6484.4	6099.7	5819.6	5632.1	5554.2
9552.5	30°	9335.8	8958.3	8405.6	8003.8	7025.0	6265.2	5644.3	5254.7	5035.6	4957.6
10239.1	32.5°	9978.6	9567.1	8997.3	8395.9	6983.6	5909.7	5079.4	4648.4	4436.6	4344.0
10918.5	35°	10575.2	10136.9	9591.4	8826.8	6874.0	5388.6	4458.5	4129.7	3893.6	3745.0
11610.0	37.5°	11186.4	10665.3	10153.9	9216.4	6676.7	4779.9	3981.2	3701.2	3423.6	3223.9
12345.4	40°	11851.1	11227.7	10755.4	9447.8	6352.9	4200.4	3611.1	3355.4	3060.8	2848.9
13192.8	42.5°	12627.9	11902.2	11425.0	9567.1	5909.7	3788.8	3370.0	3119.2	2841.6	2668.8
14101.0	45°	13438.7	12644.9	12036.2	9564.6	5415.4	3596.5	3292.1	3043.7	2736.9	2556.7
15033.6	47.5°	14288.5	13421.7	12564.6	9408.8	4986.9	3623.3	3248.3	2880.6	2542.1	2366.8
15976.0	50°	15140.8	14271.5	13075.9	9116.6	4804.2	3564.8	3085.1	2651.7	2252.4	2094.1
16859.9	52.5°	15985.7	15174.9	13516.6	8700.2	4619.2	3348.1	2875.7	2354.6	2133.1	2023.5
17773.0	55°	16835.5	16068.5	13996.3	8093.9	4156.5	3094.9	2525.1	2242.6	2038.1	1938.3
18666.6	57.5°	17687.8	17100.9	14451.7	7487.6	3574.6	2783.2	2332.7	2106.3	1943.1	1857.9
19414.2	60°	18574.1	18281.9	14921.6	6930.0	2999.9	2383.9	2191.5	1996.7	1831.1	1736.1
20132.5	62.5°	19487.2	19582.2	15289.3	6211.7	2471.5	2140.4	2064.9	1865.2	1704.5	1614.4
20726.7	65°	20407.7	20836.2	15530.4	5215.8	2004.0	1909.0	1928.5	1721.5	1558.4	1480.5
21162.5	67.5°	21101.6	21739.6	15462.2	3947.1	1643.6	1689.9	1758.1	1570.6	1417.2	1356.3
21091.9	70°	21179.6	21632.5	14790.1	2702.8	1375.8	1475.6	1568.1	1422.0	1263.8	1219.9
20098.4	72.5°	20142.3	20171.5	12917.6	1765.4	1163.9	1295.4	1368.5	1271.1	1117.7	1073.8
17583.1	75°	17422.4	16682.1	9484.3	1163.9	974.0	1112.8	1181.0	1112.8	964.3	974.0
13156.3	77.5°	13200.1	11814.6	5758.8	827.9	813.3	935.0	1027.6	978.9	852.2	957.0
6615.9	80°	6800.9	6391.9	2568.9	618.5	642.8	747.5	844.9	781.6	674.5	642.8
1478.0	82.5°	1558.4	1811.6	1013.0	443.2	465.1	538.1	645.3	586.8	484.6	409.1
616.1	85°	545.4	596.6	448.0	277.6	272.7	336.0	438.3	392.0	328.7	263.0
260.5	87.5°	172.9	226.5	168.0	112.0	116.9	151.0	202.1	185.1	153.4	99.8
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>
5171.9
5313.2
5537.2
5792.8
6026.6
6155.7
6289.6
6389.4
6406.5
6331.0
6048.5
5593.2
5003.9
4390.3
3793.7
3277.5
2890.3
2702.8
2586.0
2391.2
2103.8
2023.5
1928.5
1843.3
1728.8
1612.0
1478.0
1358.7
1222.4
1071.4
939.9
842.5
586.8
404.2
277.6
104.7
0.0

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