

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: P949981

Luminaire Tested: **GALN-SB4C-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
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-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

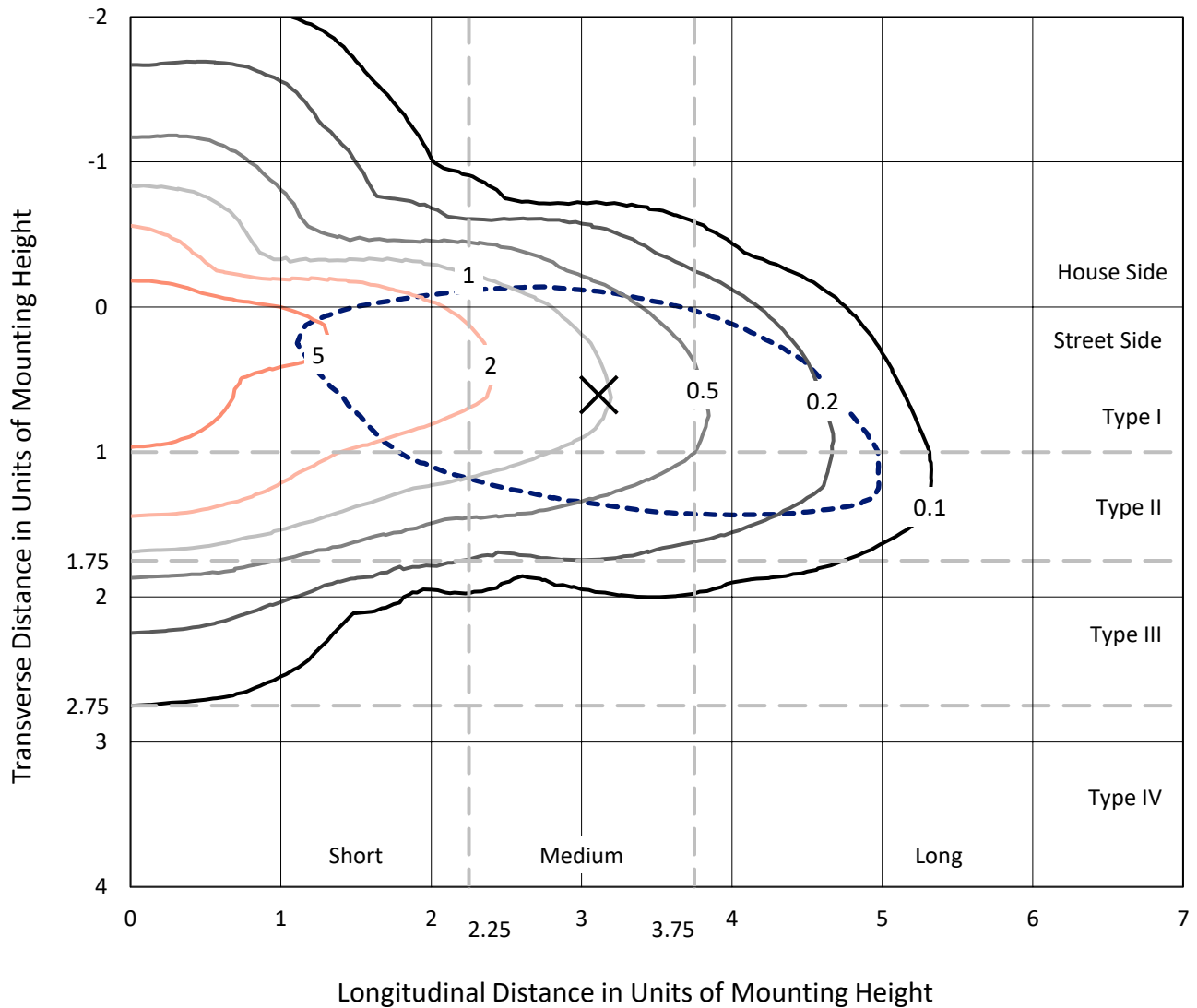
Lumens per Lamp: N/A  
Luminaire Lumens: 25942 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

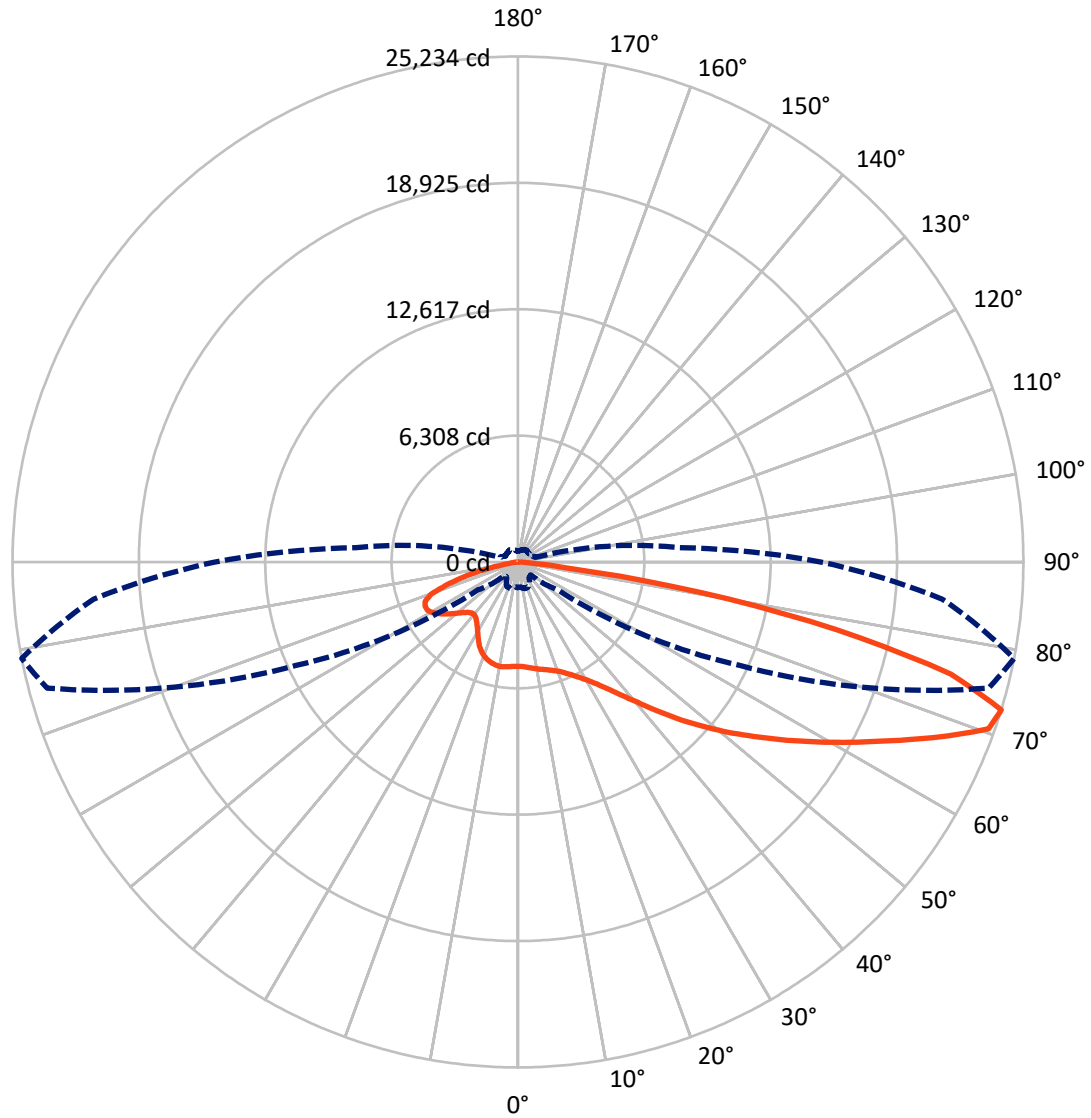
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5708.7	0.0	5708.7
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	20233.3	0.0	20233.3
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	25942.0	0.0	25942.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.7	1.8
10°-20°	1235.9	4.8
20°-30°	1994.2	7.7
30°-40°	2993.0	11.5
40°-50°	4245.8	16.4
50°-60°	5361.8	20.7
60°-70°	5445.7	21.0
70°-80°	3711.5	14.3
80°-90°	481.5	1.9
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°	25942.0	100.0
0°-180°	25942.0	100.0



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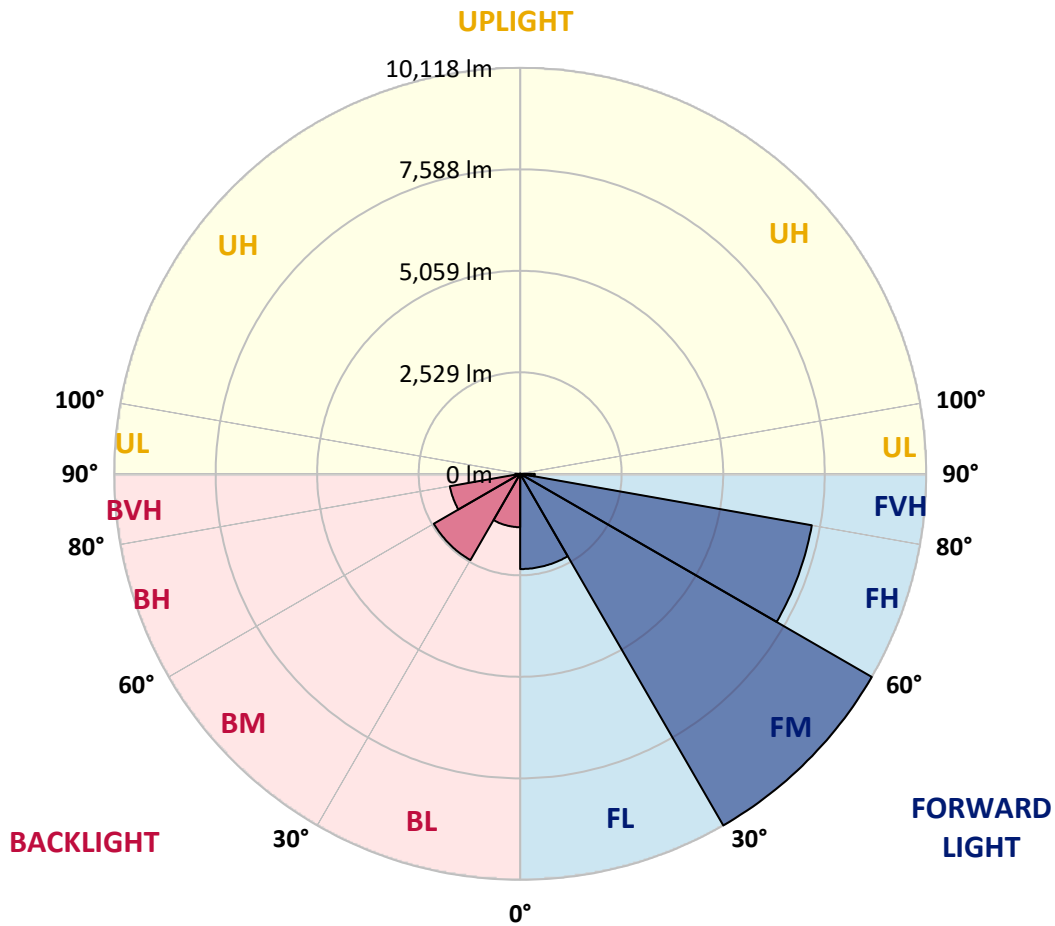
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2373.1	9.1			
FM (30°-60°)	10117.9	39.0			
FH (60°-80°)	7379.6	28.4			G3/7500
FVH (80°-90°)	362.7	1.4			G3/500
BL (0°-30°)	1329.7	5.1	B3/2500		
BM (30°-60°)	2482.7	9.6	B2/2500		
BH (60°-80°)	1777.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	118.8	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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6
2.5°	5210.4	5185.7	5200.7	5195.3	5202.1	5210.4	5213.1	5217.2	5230.9	5229.6
5°	5199.4	5174.7	5195.3	5188.4	5206.2	5225.4	5241.9	5257.0	5279.0	5288.6
7.5°	5176.0	5159.6	5180.2	5200.7	5233.7	5262.5	5285.8	5320.1	5351.7	5357.2
10°	5040.2	5027.8	5075.9	5129.4	5220.0	5298.2	5348.9	5388.7	5423.0	5428.5
12.5°	4898.9	4883.8	4937.3	5010.0	5156.8	5298.2	5405.2	5457.4	5487.5	5505.4
15°	4875.5	4863.2	4893.4	4956.5	5078.6	5261.1	5443.6	5539.7	5565.8	5586.3
17.5°	4988.1	4964.7	4977.1	4999.0	5070.4	5226.8	5473.8	5633.0	5672.8	5694.8
20°	5248.8	5215.8	5196.6	5152.7	5140.4	5232.3	5471.1	5745.5	5797.7	5825.1
22.5°	5596.0	5574.0	5532.8	5421.7	5300.9	5299.5	5523.2	5889.6	5987.0	6013.1
25°	6015.9	5982.9	5930.8	5779.8	5547.9	5432.7	5611.0	6073.5	6236.8	6243.6
27.5°	6498.9	6449.5	6378.1	6179.1	5866.3	5641.2	5745.5	6284.8	6523.6	6520.8
30°	7008.0	6958.6	6883.1	6641.6	6247.8	5922.5	5932.1	6512.6	6863.9	6848.8
32.5°	7379.8	7342.8	7327.7	7141.1	6686.9	6254.6	6146.2	6765.1	7283.8	7270.1
35°	7665.3	7617.2	7635.1	7540.4	7165.8	6626.5	6408.3	7065.6	7794.3	7792.9
37.5°	7948.0	7905.4	7920.5	7857.4	7609.0	7098.5	6728.0	7433.4	8426.9	8457.0
40°	8205.9	8160.6	8221.0	8162.0	7953.4	7600.8	7091.7	7849.2	9159.6	9217.3
42.5°	8361.0	8325.3	8425.5	8426.9	8252.6	8024.8	7491.0	8307.5	10007.7	10136.7
45°	8414.5	8402.2	8553.1	8584.7	8517.4	8270.4	7850.5	8807.0	10921.6	11152.1
47.5°	8356.9	8333.5	8542.1	8658.8	8712.3	8385.7	8148.3	9347.6	11854.7	12192.3
50°	8066.0	8020.7	8330.8	8576.4	8767.2	8461.2	8448.8	9972.0	12915.4	13284.6
52.5°	7543.1	7508.8	7861.5	8288.3	8646.4	8498.2	8786.4	10654.0	13922.6	14400.2
55°	6874.9	6829.6	7217.9	7775.1	8345.9	8485.9	9124.0	11416.9	15111.0	15595.4
57.5°	5815.5	5724.9	6216.2	6874.9	7856.0	8470.8	9475.2	12175.8	16318.5	16899.0
60°	4270.4	4135.9	4738.3	5519.1	6898.2	8323.9	9910.2	13026.6	17767.6	18290.4
62.5°	2486.5	2408.3	2802.1	3530.7	5199.4	7459.4	10154.5	14015.9	19192.0	19740.9
65°	1930.7	1908.8	1943.1	1999.3	2894.0	5585.0	9401.1	14980.6	21003.3	21387.6
67.5°	1766.1	1749.6	1764.7	1659.0	1468.3	3110.8	7437.5	15224.9	22943.7	23177.0
70°	1569.8	1550.6	1600.0	1509.5	1155.4	1414.8	4805.5	14338.4	24487.4	24925.2
72.5°	1278.9	1257.0	1372.2	1331.1	972.9	908.4	2413.8	12232.1	24325.5	25233.9
75°	982.5	970.2	1107.4	1141.7	793.1	714.9	1158.2	9092.4	21406.8	22322.1
77.5°	763.0	753.4	823.3	948.2	639.5	554.4	712.2	5767.5	16131.9	16292.5
80°	572.2	544.8	609.3	734.1	498.1	404.8	483.0	3363.3	10197.0	9243.3
82.5°	358.2	344.4	397.9	489.9	351.3	278.6	314.2	1858.0	4086.5	2406.9
85°	204.5	199.0	216.8	279.9	190.7	160.6	179.8	820.6	746.5	513.2
87.5°	82.3	79.6	98.8	124.9	70.0	59.0	63.1	197.6	164.7	152.3
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°
5207.6	0°	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6
5228.2	2.5°	5222.7	5222.7	5203.5	5173.3	5139.0	5117.0	5081.4	5071.8	5034.7	5023.7
5274.8	5°	5285.8	5274.8	5215.8	5130.8	5014.1	4907.1	4789.1	4715.0	4610.7	4573.6
5366.8	7.5°	5365.4	5335.2	5233.7	5047.1	4802.8	4562.7	4312.9	4123.5	3942.4	3877.9
5442.3	10°	5438.1	5395.6	5222.7	4896.1	4473.5	4057.7	3659.7	3381.2	3169.8	3083.4
5526.0	12.5°	5510.9	5432.7	5150.0	4645.0	4005.5	3441.6	3017.5	2800.7	2670.4	2566.1
5594.6	15°	5579.5	5469.7	5037.5	4308.8	3492.3	2920.1	2607.2	2434.3	2330.0	2261.4
5694.8	17.5°	5659.1	5501.3	4868.7	3882.0	3003.8	2559.2	2304.0	2199.7	2179.1	2170.9
5832.0	20°	5770.2	5530.1	4646.4	3404.5	2644.3	2271.0	2139.3	2129.7	2128.3	2124.2
5996.6	22.5°	5889.6	5564.4	4352.7	2970.9	2338.3	2091.3	2067.9	2048.7	2036.4	2035.0
6195.6	25°	6030.9	5575.4	3985.0	2615.5	2077.6	2006.2	1978.8	1949.9	1941.7	1941.7
6422.0	27.5°	6168.2	5538.3	3556.8	2306.7	1930.7	1928.0	1892.3	1882.7	1881.3	1885.4
6680.0	30°	6305.4	5468.3	3131.4	2021.3	1845.6	1845.6	1833.3	1840.2	1845.6	1859.4
7034.0	32.5°	6490.6	5394.2	2776.0	1810.0	1771.5	1757.8	1770.2	1783.9	1789.4	1807.2
7499.2	35°	6762.3	5342.1	2493.3	1694.7	1694.7	1676.9	1683.7	1681.0	1668.6	1660.4
8061.8	37.5°	7121.9	5339.3	2260.1	1641.2	1630.2	1627.5	1628.8	1611.0	1563.0	1505.3
8742.5	40°	7554.1	5413.4	2080.3	1604.1	1595.9	1612.4	1604.1	1556.1	1424.4	1324.2
9579.5	42.5°	8134.6	5624.8	1965.0	1558.9	1583.6	1604.1	1571.2	1405.2	1316.0	1248.7
10533.2	45°	8817.9	5967.8	1906.0	1510.8	1560.2	1584.9	1425.7	1353.0	1281.7	1200.7
11573.4	47.5°	9591.9	6400.1	1892.3	1465.5	1508.1	1523.2	1364.0	1331.1	1250.1	1162.3
12619.0	50°	10434.4	6911.9	1929.4	1412.0	1432.6	1380.5	1343.4	1313.2	1229.5	1143.1
13690.7	52.5°	11305.8	7475.9	2003.5	1339.3	1357.1	1299.5	1335.2	1309.1	1217.2	1100.5
14798.1	55°	12162.1	8044.0	2074.8	1254.2	1280.3	1226.8	1311.9	1292.6	1160.9	1029.2
15979.6	57.5°	13032.1	8609.4	2144.8	1178.7	1206.2	1156.8	1274.8	1248.7	1097.8	963.3
17269.5	60°	13936.4	9158.3	2177.7	1106.0	1125.2	1092.3	1218.5	1173.3	1026.4	896.1
18537.4	62.5°	14783.0	9615.2	2124.2	1033.3	1045.6	1031.9	1144.4	1084.1	955.1	820.6
19858.9	65°	15632.4	9886.9	1959.5	961.9	964.7	957.8	1040.1	988.0	871.4	754.7
21015.7	67.5°	16402.3	10039.2	1697.4	885.1	878.2	875.5	942.7	883.7	790.4	688.9
21895.3	70°	16565.6	9652.3	1296.8	794.5	794.5	787.7	835.7	775.3	701.2	618.9
21265.4	72.5°	15130.2	8119.5	920.8	691.6	702.6	688.9	728.7	677.9	610.6	555.8
18327.5	75°	12200.5	5954.1	669.6	585.9	605.2	581.8	618.9	583.2	525.6	524.2
12630.0	77.5°	8382.9	3681.7	485.8	483.0	496.7	466.6	509.1	489.9	437.7	414.4
5497.2	80°	3577.4	1468.3	354.0	373.2	373.2	345.8	395.2	400.7	355.4	344.4
1060.7	82.5°	712.2	417.2	248.4	256.6	241.5	233.3	279.9	310.1	428.1	476.2
319.7	85°	214.1	153.7	149.6	140.0	123.5	124.9	164.7	311.5	384.2	219.6
105.7	87.5°	59.0	38.4	39.8	31.6	26.1	34.3	56.3	236.0	129.0	54.9
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>
5207.6
5041.6
4601.1
3886.2
3102.6
2600.4
2273.8
2176.4
2137.9
2050.1
1949.9
1896.4
1869.0
1822.3
1679.6
1506.7
1321.5
1246.0
1195.2
1155.4
1133.5
1092.3
1022.3
960.6
891.9
819.2
746.5
680.6
616.1
539.3
472.0
388.3
344.4
477.5
189.4
46.7
0.0

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