

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: P949666

Luminaire Tested: **GALN-SB4B-835-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949666  
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-SB4B-835-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

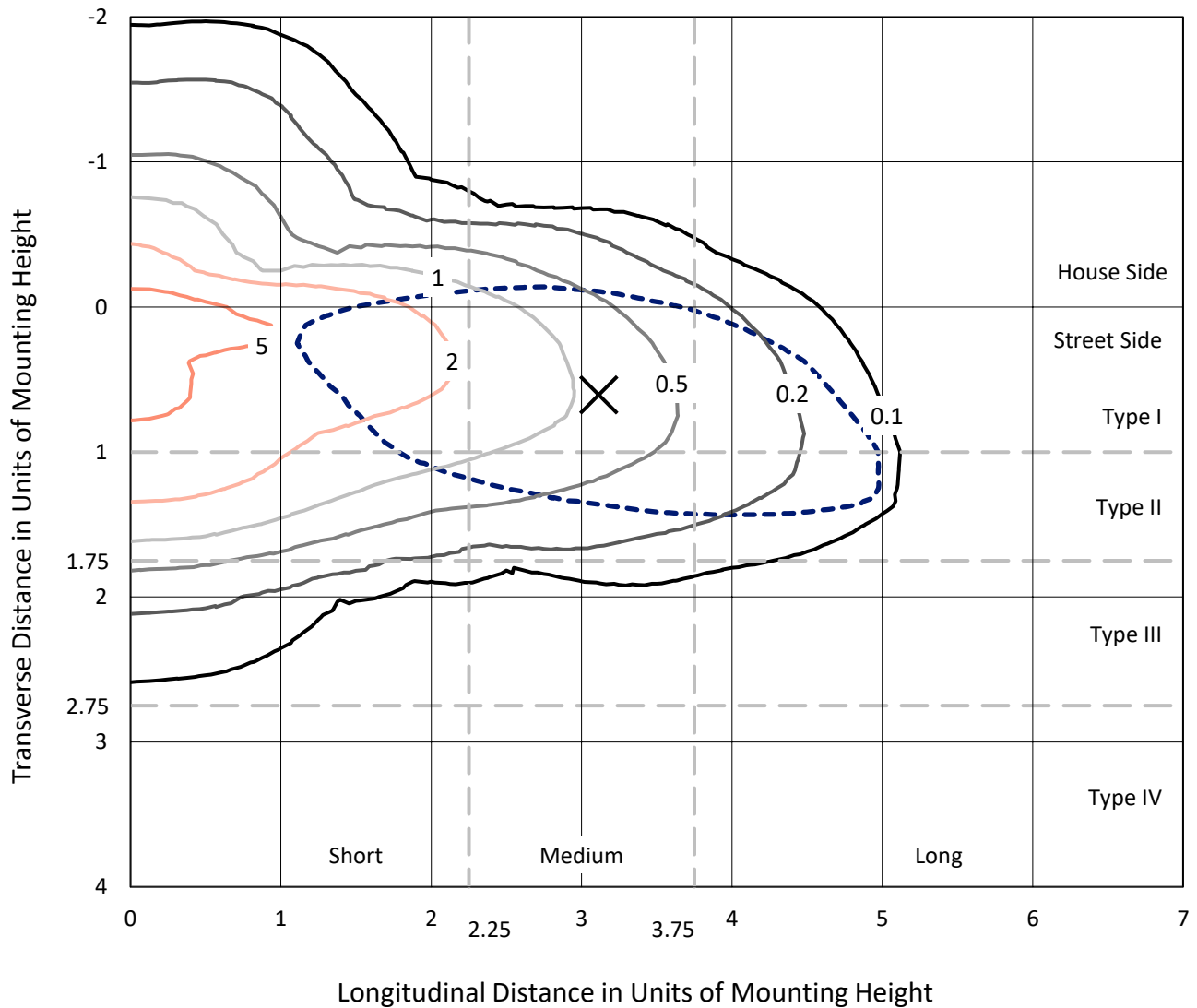
Lumens per Lamp: N/A  
Luminaire Lumens: 20806 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

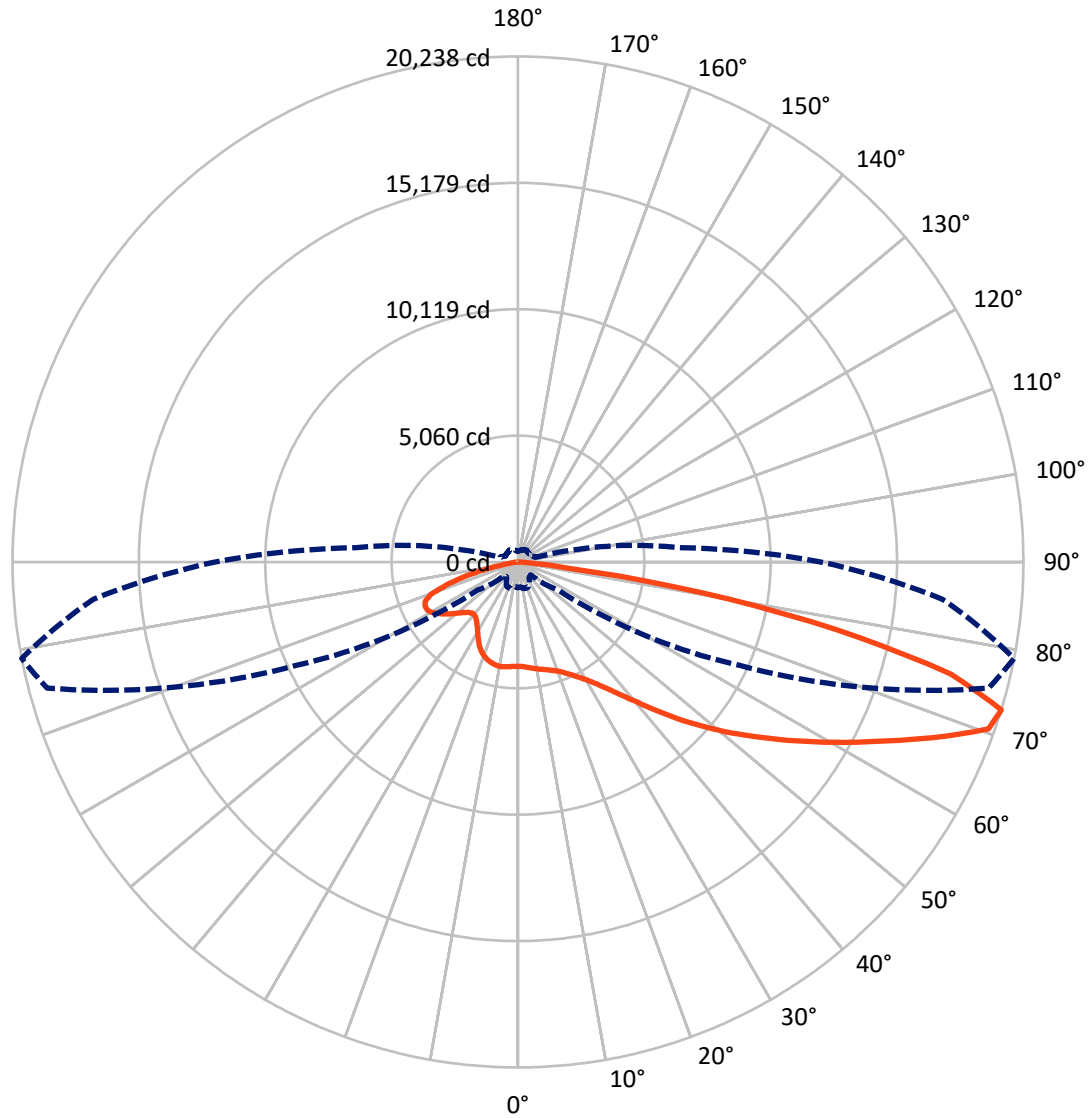
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	4578.5	0.0	4578.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	16227.5	0.0	16227.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	20806.0	0.0	20806.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.1	1.8
10°-20°	991.2	4.8
20°-30°	1599.4	7.7
30°-40°	2400.5	11.5
40°-50°	3405.2	16.4
50°-60°	4300.3	20.7
60°-70°	4367.5	21.0
70°-80°	2976.7	14.3
80°-90°	386.2	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°	20806.0	100.0
0°-180°	20806.0	100.0



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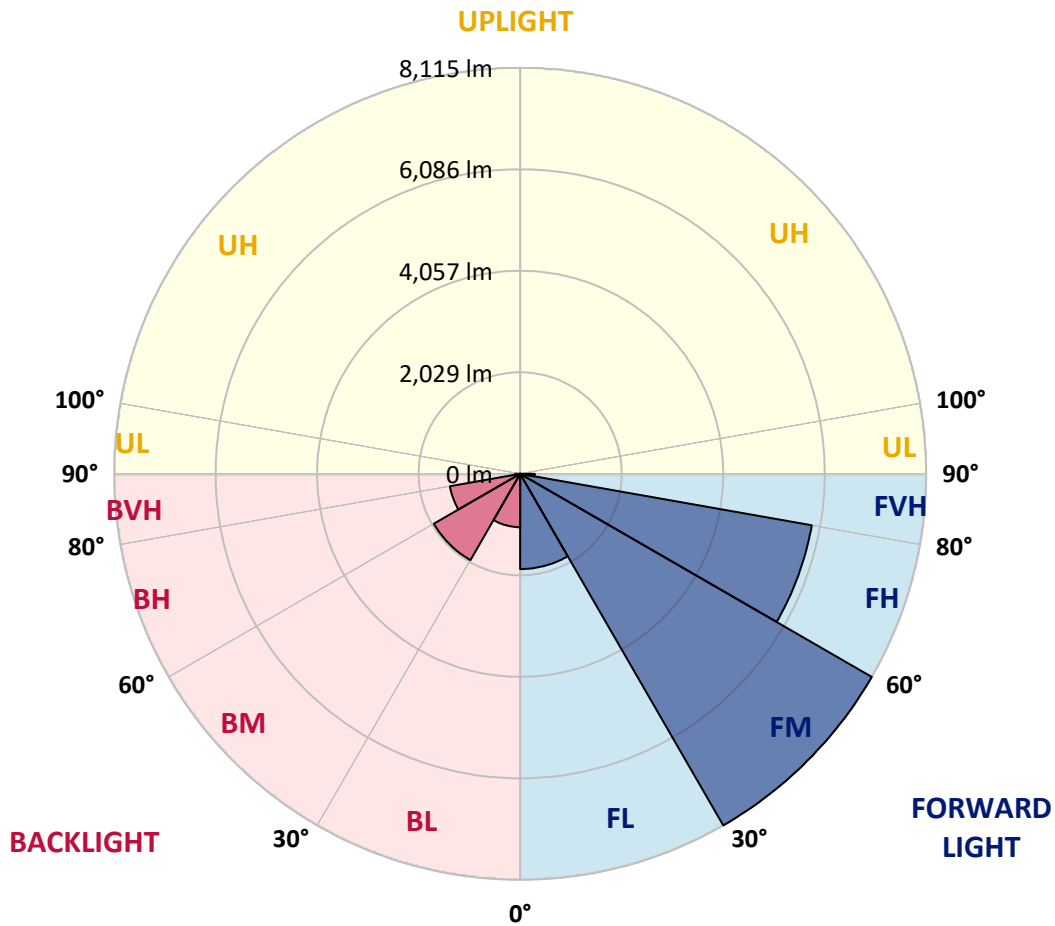
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.2	9.1			
FM (30°-60°)	8114.8	39.0			
FH (60°-80°)	5918.6	28.4			G3/7500
FVH (80°-90°)	290.9	1.4			G3/500
BL (0°-30°)	1066.5	5.1	B3/2500		
BM (30°-60°)	1991.1	9.6	B2/2500		
BH (60°-80°)	1425.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	95.3	0.5			G1/100
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°	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6
2.5°	4178.8	4159.0	4171.1	4166.7	4172.2	4178.8	4181.0	4184.3	4195.3	4194.2
5°	4170.0	4150.2	4166.7	4161.2	4175.5	4190.9	4204.1	4216.2	4233.8	4241.5
7.5°	4151.3	4138.1	4154.6	4171.1	4197.5	4220.6	4239.3	4266.9	4292.2	4296.6
10°	4042.3	4032.4	4071.0	4113.9	4186.5	4249.2	4290.0	4321.9	4349.4	4353.8
12.5°	3929.0	3916.9	3959.8	4018.1	4135.9	4249.2	4335.1	4376.9	4401.1	4415.4
15°	3910.3	3900.4	3924.6	3975.2	4073.2	4219.5	4365.9	4442.9	4463.9	4480.4
17.5°	4000.5	3981.8	3991.7	4009.3	4066.6	4192.0	4390.1	4517.8	4549.7	4567.3
20°	4209.6	4183.2	4167.8	4132.6	4122.7	4196.4	4387.9	4608.0	4649.8	4671.9
22.5°	4488.1	4470.5	4437.4	4348.3	4251.4	4250.3	4429.7	4723.6	4801.7	4822.6
25°	4824.8	4798.4	4756.6	4635.5	4449.5	4357.1	4500.2	4871.1	5002.0	5007.5
27.5°	5212.2	5172.6	5115.4	4955.8	4704.9	4524.4	4608.0	5040.5	5232.0	5229.8
30°	5620.5	5580.9	5520.4	5326.7	5010.8	4750.0	4757.7	5223.2	5505.0	5492.9
32.5°	5918.8	5889.1	5877.0	5727.3	5363.0	5016.3	4929.4	5425.7	5841.7	5830.7
35°	6147.7	6109.2	6123.5	6047.6	5747.1	5314.6	5139.6	5666.8	6251.2	6250.1
37.5°	6374.4	6340.3	6352.4	6301.8	6102.6	5693.2	5396.0	5961.7	6758.5	6782.7
40°	6581.3	6545.0	6593.4	6546.1	6378.8	6096.0	5687.7	6295.2	7346.2	7392.4
42.5°	6705.7	6677.1	6757.4	6758.5	6618.7	6436.0	6007.9	6662.8	8026.3	8129.8
45°	6748.6	6738.7	6859.8	6885.1	6831.1	6633.0	6296.3	7063.4	8759.3	8944.2
47.5°	6702.4	6683.7	6851.0	6944.5	6987.4	6725.5	6535.1	7497.0	9507.7	9778.4
50°	6469.1	6432.7	6681.5	6878.5	7031.4	6786.0	6776.1	7997.7	10358.4	10654.5
52.5°	6049.8	6022.2	6305.1	6647.4	6934.6	6815.7	7046.9	8544.7	11166.2	11549.2
55°	5513.8	5477.5	5788.9	6235.7	6693.6	6805.8	7317.6	9156.6	12119.3	12507.8
57.5°	4664.2	4591.5	4985.5	5513.8	6300.7	6793.7	7599.3	9765.2	13087.8	13553.3
60°	3424.9	3317.1	3800.2	4426.4	5532.5	6676.0	7948.2	10447.6	14250.0	14669.3
62.5°	1994.2	1931.5	2247.3	2831.7	4170.0	5982.6	8144.1	11241.1	15392.4	15832.6
65°	1548.5	1530.9	1558.4	1603.5	2321.1	4479.3	7539.9	12014.8	16845.1	17153.3
67.5°	1416.4	1403.2	1415.3	1330.6	1177.6	2495.0	5965.0	12210.7	18401.3	18588.4
70°	1259.0	1243.6	1283.2	1210.6	926.7	1134.7	3854.1	11499.7	19639.4	19990.5
72.5°	1025.7	1008.1	1100.6	1067.5	780.3	728.6	1935.9	9810.3	19509.5	20238.1
75°	788.0	778.1	888.1	915.7	636.1	573.4	928.9	7292.3	17168.7	17902.7
77.5°	611.9	604.2	660.3	760.5	512.9	444.6	571.2	4625.6	12938.1	13066.9
80°	458.9	436.9	488.6	588.8	399.5	324.7	387.4	2697.5	8178.2	7413.3
82.5°	287.2	276.2	319.2	392.9	281.7	223.4	252.0	1490.2	3277.5	1930.4
85°	164.0	159.6	173.9	224.5	153.0	128.8	144.2	658.1	598.7	411.6
87.5°	66.0	63.8	79.2	100.2	56.1	47.3	50.6	158.5	132.1	122.2
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°
4176.6	0°	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6	4176.6
4193.1	2.5°	4188.7	4188.7	4173.3	4149.1	4121.6	4104.0	4075.4	4067.7	4037.9	4029.1
4230.5	5°	4239.3	4230.5	4183.2	4115.0	4021.4	3935.6	3840.9	3781.5	3697.9	3668.2
4304.3	7.5°	4303.2	4279.0	4197.5	4047.8	3851.9	3659.3	3459.0	3307.2	3161.9	3110.2
4364.8	10°	4361.5	4327.4	4188.7	3926.8	3587.8	3254.3	2935.2	2711.8	2542.3	2472.9
4431.9	12.5°	4419.8	4357.1	4130.4	3725.4	3212.5	2760.2	2420.1	2246.2	2141.7	2058.0
4487.0	15°	4474.9	4386.8	4040.1	3455.7	2800.9	2342.0	2091.1	1952.4	1868.7	1813.7
4567.3	17.5°	4538.7	4412.1	3904.8	3113.5	2409.1	2052.5	1847.8	1764.2	1747.7	1741.1
4677.4	20°	4627.8	4435.2	3726.5	2730.5	2120.8	1821.4	1715.8	1708.1	1707.0	1703.7
4809.4	22.5°	4723.6	4462.8	3491.0	2382.7	1875.3	1677.2	1658.5	1643.1	1633.2	1632.1
4969.0	25°	4836.9	4471.6	3196.0	2097.7	1666.2	1609.0	1587.0	1563.9	1557.3	1557.3
5150.6	27.5°	4947.0	4441.8	2852.6	1850.0	1548.5	1546.3	1517.7	1510.0	1508.9	1512.2
5357.5	30°	5057.1	4385.7	2511.5	1621.1	1480.2	1480.2	1470.3	1475.8	1480.2	1491.3
5641.4	32.5°	5205.6	4326.3	2226.4	1451.6	1420.8	1409.8	1419.7	1430.7	1435.1	1449.4
6014.5	35°	5423.5	4284.5	1999.7	1359.2	1359.2	1344.9	1350.4	1348.2	1338.3	1331.7
6465.8	37.5°	5711.9	4282.3	1812.6	1316.3	1307.5	1305.3	1306.4	1292.1	1253.5	1207.3
7011.6	40°	6058.6	4341.7	1668.4	1286.5	1279.9	1293.2	1286.5	1248.0	1142.4	1062.0
7683.0	42.5°	6524.1	4511.2	1576.0	1250.2	1270.0	1286.5	1260.1	1127.0	1055.4	1001.5
8447.9	45°	7072.2	4786.3	1528.7	1211.7	1251.3	1271.1	1143.5	1085.1	1027.9	963.0
9282.1	47.5°	7692.9	5133.0	1517.7	1175.4	1209.5	1221.6	1094.0	1067.5	1002.6	932.2
10120.7	50°	8368.6	5543.5	1547.4	1132.5	1149.0	1107.2	1077.4	1053.2	986.1	916.8
10980.2	52.5°	9067.5	5995.8	1606.8	1074.1	1088.4	1042.2	1070.8	1049.9	976.2	882.6
11868.4	55°	9754.2	6451.5	1664.0	1005.9	1026.8	983.9	1052.1	1036.7	931.1	825.4
12816.0	57.5°	10452.0	6904.9	1720.2	945.4	967.4	927.8	1022.4	1001.5	880.4	772.6
13850.5	60°	11177.2	7345.1	1746.6	887.0	902.5	876.0	977.3	941.0	823.2	718.7
14867.4	62.5°	11856.3	7711.6	1703.7	828.7	838.6	827.6	917.9	869.4	766.0	658.1
15927.2	65°	12537.5	7929.5	1571.6	771.5	773.7	768.2	834.2	792.4	698.9	605.3
16855.0	67.5°	13154.9	8051.7	1361.4	709.9	704.4	702.2	756.1	708.8	633.9	552.5
17560.5	70°	13285.9	7741.3	1040.0	637.2	637.2	631.7	670.2	621.8	562.4	496.4
17055.3	72.5°	12134.7	6512.0	738.5	554.7	563.5	552.5	584.4	543.7	489.7	445.7
14699.0	75°	9785.0	4775.3	537.1	469.9	485.3	466.6	496.4	467.7	421.5	420.4
10129.5	77.5°	6723.3	2952.8	389.6	387.4	398.4	374.2	408.3	392.9	351.1	332.4
4408.8	80°	2869.1	1177.6	283.9	299.4	299.4	277.3	317.0	321.4	285.0	276.2
850.7	82.5°	571.2	334.6	199.2	205.8	193.7	187.1	224.5	248.7	343.4	381.9
256.4	85°	171.7	123.3	120.0	112.3	99.0	100.2	132.1	249.8	308.2	176.1
84.7	87.5°	47.3	30.8	31.9	25.3	20.9	27.5	45.1	189.3	103.5	44.0
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>
4176.6
4043.4
3690.2
3116.8
2488.4
2085.6
1823.6
1745.5
1714.7
1644.2
1563.9
1521.0
1499.0
1461.5
1347.1
1208.4
1059.8
999.3
958.6
926.7
909.1
876.0
819.9
770.4
715.4
657.0
598.7
545.9
494.1
432.5
378.6
311.5
276.2
383.0
151.9
37.4
0.0

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