

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: P950051

Luminaire Tested: **GALN-SB4C-840-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-840-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

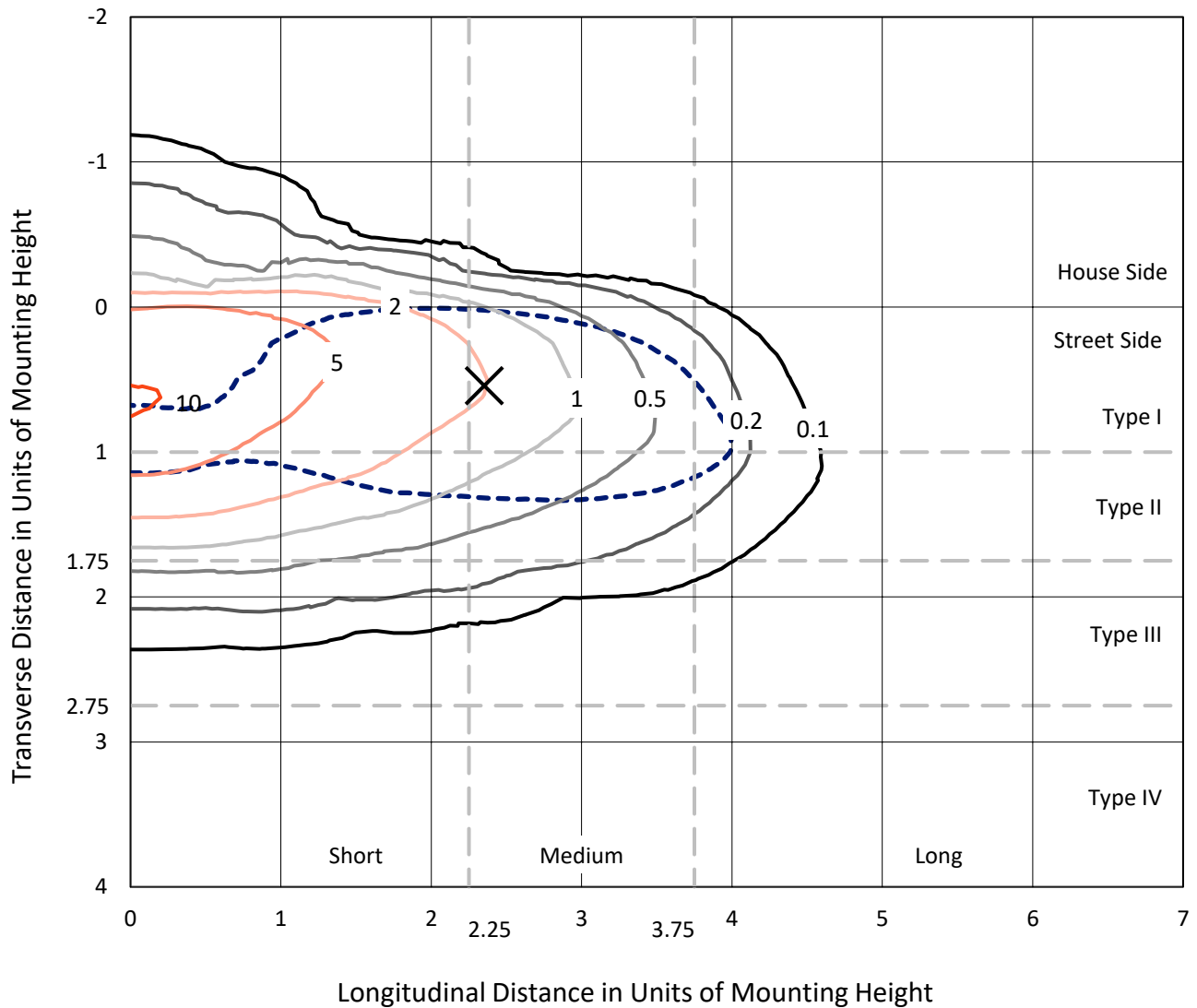
Lumens per Lamp: N/A  
Luminaire Lumens: 24308 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

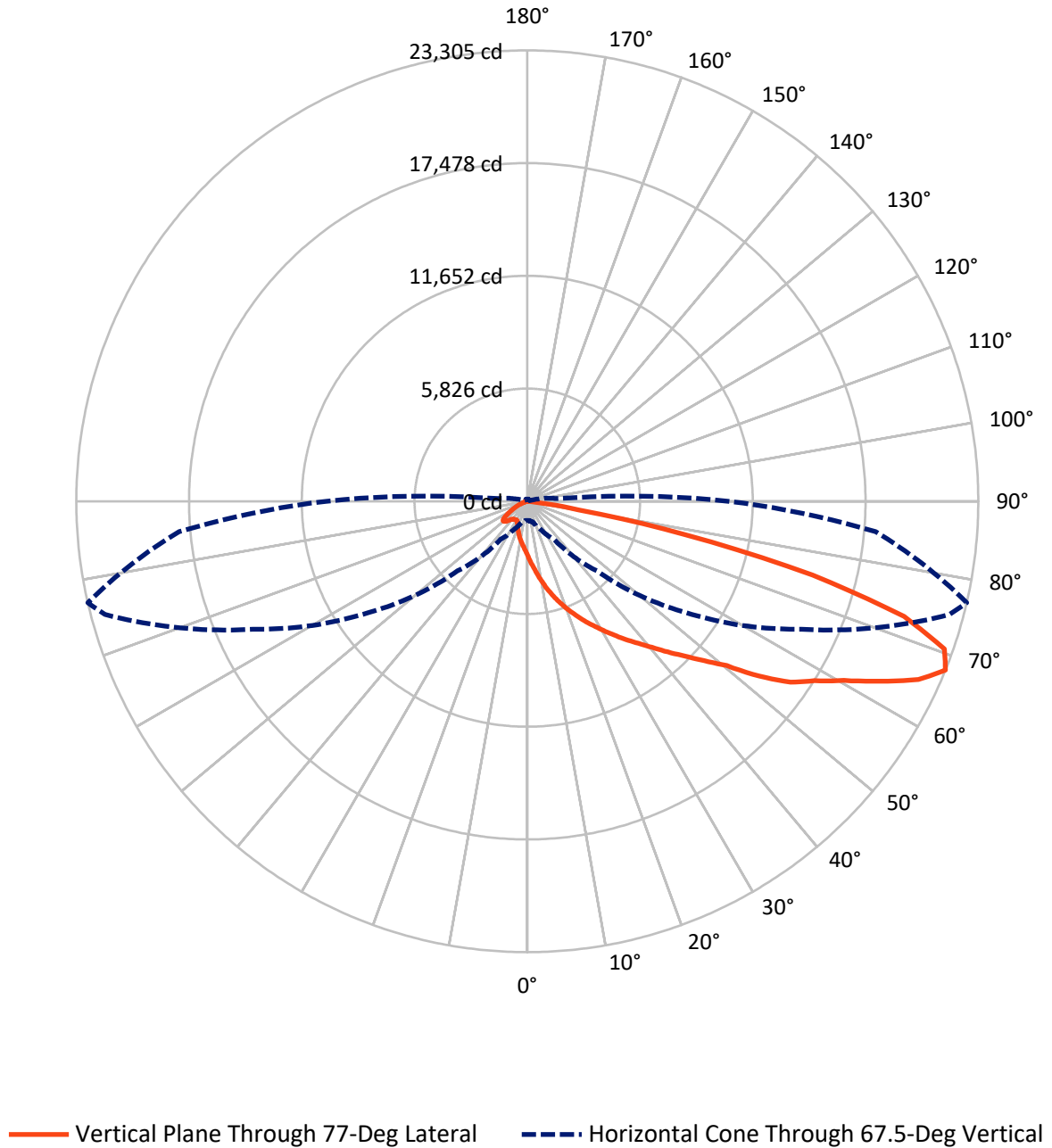
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1788.4	0.0	1788.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	22519.7	0.0	22519.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	24308.0	0.0	24308.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.1	1.2
10°-20°	1001.9	4.1
20°-30°	1933.4	8.0
30°-40°	3356.4	13.8
40°-50°	4873.4	20.0
50°-60°	5596.4	23.0
60°-70°	4858.7	20.0
70°-80°	2288.5	9.4
80°-90°	113.2	0.5
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°	24308.0	100.0
0°-180°	24308.0	100.0

**Coefficient of Utilization**



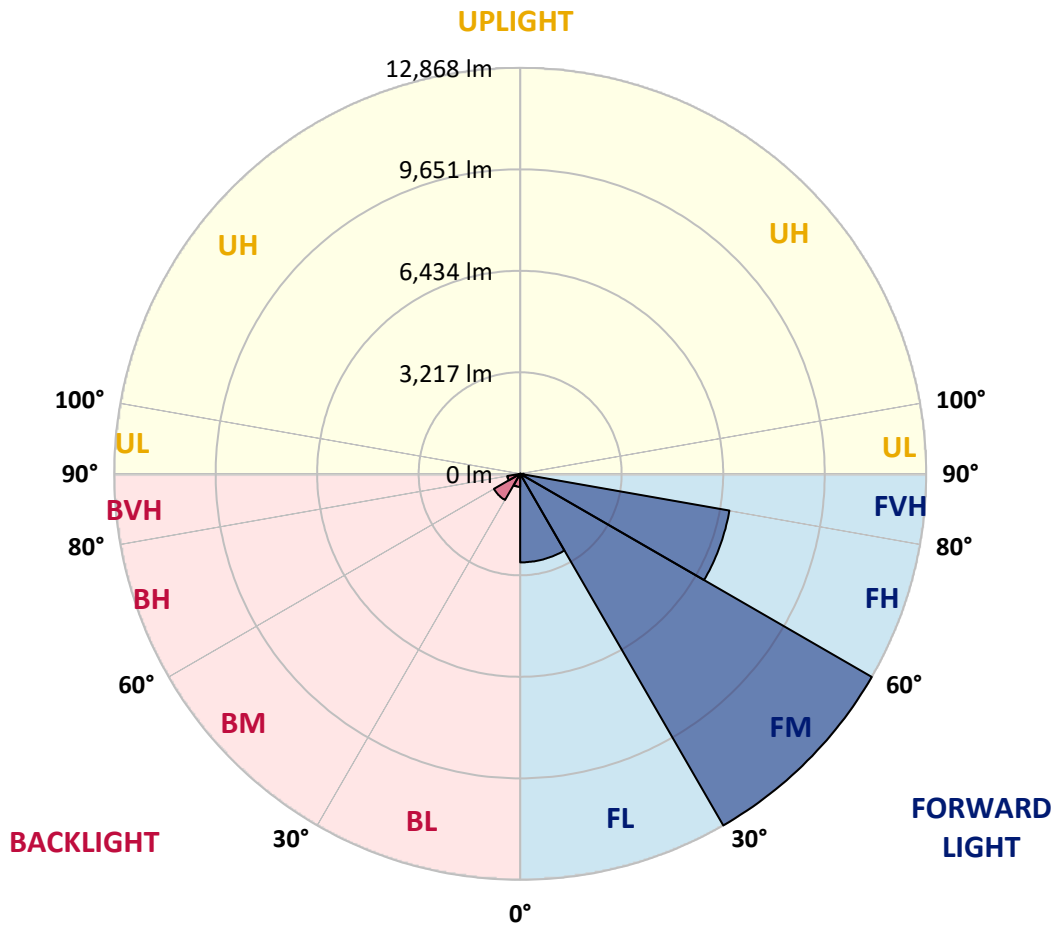
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2807.3	11.5			
FM (30°-60°)	12868.0	52.9			
FH (60°-80°)	6733.2	27.7			G3/7500
FVH (80°-90°)	111.1	0.5			G2/225
BL (0°-30°)	414.0	1.7	B1/500		
BM (30°-60°)	958.2	3.9	B1/1000		
BH (60°-80°)	414.0	1.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1
2.5°	3880.8	3905.0	3870.3	3803.8	3704.2	3639.3	3480.8	3331.4	3165.3	3112.5
5°	4730.7	4751.8	4712.5	4640.1	4507.3	4380.5	4172.2	3859.7	3535.2	3431.0
7.5°	5360.1	5372.2	5357.1	5290.7	5163.9	5020.5	4788.0	4418.2	3936.7	3822.0
10°	5812.9	5852.2	5847.7	5822.0	5737.5	5621.2	5373.7	4952.5	4386.5	4238.6
12.5°	6113.3	6157.1	6182.8	6240.1	6235.6	6161.6	5944.3	5499.0	4834.8	4661.2
15°	6200.9	6247.7	6345.8	6478.6	6596.3	6634.1	6481.6	6034.8	5328.4	5106.5
17.5°	6151.1	6223.5	6341.2	6551.1	6809.2	6979.7	6963.1	6552.6	5776.7	5523.1
20°	6261.2	6330.7	6422.8	6599.4	6899.7	7209.2	7333.0	7047.7	6222.0	5956.3
22.5°	6871.1	6859.0	6868.0	6896.7	7076.4	7382.8	7637.9	7497.5	6662.8	6391.1
25°	7837.1	7782.8	7690.7	7535.2	7489.9	7637.9	7903.5	7896.0	7127.7	6836.4
27.5°	8945.1	8936.0	8720.2	8345.8	8134.5	8077.1	8203.9	8283.9	7588.1	7277.1
30°	10006.2	10030.4	9739.0	9322.4	8934.5	8709.6	8594.9	8652.2	8056.0	7752.6
32.5°	10930.0	10955.7	10638.7	10151.1	9671.1	9399.4	9157.9	9016.0	8566.2	8235.6
35°	11710.4	11736.1	11372.3	10833.4	10321.7	10075.7	9802.4	9414.5	9079.4	8771.5
37.5°	12407.8	12400.2	11912.7	11369.3	10866.6	10671.9	10528.5	9905.1	9607.7	9310.4
40°	12819.9	12851.6	12434.9	11835.7	11348.1	11206.2	11197.2	10513.4	10217.5	9929.2
42.5°	12940.6	12996.5	12694.6	12202.5	11760.2	11606.2	11843.2	11171.5	10927.0	10646.2
45°	12723.2	12777.6	12640.2	12299.1	12041.0	11941.3	12398.7	11853.8	11684.7	11407.0
47.5°	12089.3	12157.2	12190.4	12118.0	12114.9	12216.1	12896.8	12572.3	12584.4	12300.6
50°	10862.1	10976.8	11281.7	11538.3	11935.3	12433.4	13381.4	13351.2	13598.7	13354.2
52.5°	8631.1	8794.1	9844.7	10546.6	11438.7	12392.7	13914.2	14601.0	15378.4	15020.6
55°	6936.0	6936.0	7790.3	9103.6	10469.6	12124.0	14146.7	15413.1	16590.5	16506.0
57.5°	5654.4	5722.4	6267.3	7428.1	9067.3	11484.0	14290.1	15923.3	17567.1	17505.2
60°	3489.9	3636.3	4665.7	5811.4	7471.8	10344.3	14199.5	16439.5	18752.0	18801.9
62.5°	1965.3	2019.7	2478.5	4181.2	5809.9	8812.2	13506.7	16727.9	20267.5	20478.9
65°	1357.0	1384.2	1560.8	2602.3	4027.2	7016.0	12152.7	16548.2	21786.1	22213.2
67.5°	985.7	999.3	1109.5	1589.5	2389.5	5086.9	10030.4	15642.5	22590.6	23304.6
70°	757.7	766.8	846.8	1044.5	1411.3	3139.7	7284.7	13841.8	22007.9	22860.8
72.5°	615.9	624.9	686.8	772.8	935.9	1856.6	4415.2	11241.0	19435.8	20356.6
75°	519.3	531.3	587.2	643.0	733.6	1192.5	2071.0	7828.1	14616.1	15219.9
77.5°	288.3	265.7	477.0	532.8	618.9	754.7	969.1	4606.9	8185.8	8353.4
80°	179.6	185.7	378.9	428.7	475.5	380.4	443.8	1773.6	2837.8	2695.9
82.5°	10.6	24.2	291.3	309.4	326.0	163.0	167.6	602.3	683.8	627.9
85°	0.0	0.0	132.8	107.2	113.2	46.8	48.3	140.4	92.1	99.6
87.5°	0.0	0.0	0.0	3.0	0.0	4.5	9.1	12.1	4.5	6.0
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°
2803.1	0°	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1	2803.1
2946.5	2.5°	2840.8	2735.1	2520.8	2311.0	2140.4	1981.9	1868.7	1761.5	1707.2	1704.2
3136.7	5°	2926.8	2705.0	2276.3	1897.4	1592.5	1347.9	1189.5	1076.2	1018.9	999.3
3370.6	7.5°	3047.6	2714.0	2061.9	1535.1	1175.9	966.1	875.5	839.3	827.2	813.6
3634.8	10°	3200.1	2735.1	1870.2	1236.2	926.8	821.1	784.9	769.8	760.8	751.7
3932.1	12.5°	3370.6	2754.8	1680.0	1026.4	815.1	760.8	735.1	717.0	704.9	694.4
4237.1	15°	3536.7	2766.8	1482.3	880.0	757.7	714.0	686.8	667.2	650.6	638.5
4535.9	17.5°	3701.2	2783.4	1296.6	792.5	711.0	667.2	640.0	615.9	602.3	588.7
4849.9	20°	3883.8	2780.4	1121.5	730.6	664.2	620.4	591.7	569.1	555.5	540.4
5182.0	22.5°	4052.9	2765.3	967.6	677.7	615.9	573.6	541.9	519.3	505.7	493.6
5521.6	25°	4247.6	2753.3	839.3	629.4	570.6	528.3	493.6	472.5	457.4	446.8
5862.7	27.5°	4434.8	2735.1	745.7	585.7	526.8	486.0	452.8	428.7	415.1	407.6
6214.5	30°	4619.0	2730.6	711.0	543.4	487.6	446.8	413.6	391.0	380.4	377.4
6600.9	32.5°	4840.8	2742.7	726.1	528.3	451.3	410.6	378.9	362.3	351.7	351.7
7031.1	35°	5077.8	2739.7	748.7	541.9	427.2	374.3	350.2	339.6	329.1	329.1
7508.1	37.5°	5375.2	2744.2	766.8	564.5	418.1	344.2	330.6	317.0	310.9	310.9
8030.3	40°	5819.0	2893.6	757.7	584.2	415.1	323.0	295.9	291.3	286.8	286.8
8620.5	42.5°	6362.4	3218.2	769.8	585.7	413.6	307.9	271.7	280.8	270.2	268.7
9286.2	45°	6957.1	3572.9	846.8	554.0	412.1	300.4	259.6	270.2	253.6	253.6
10057.5	47.5°	7547.3	3924.6	925.3	508.7	407.6	298.9	249.1	243.0	238.5	240.0
11062.8	50°	8360.9	4211.4	955.5	446.8	397.0	295.9	229.4	230.9	227.9	230.9
12480.2	52.5°	9247.0	4271.8	919.3	377.4	366.8	286.8	215.9	221.9	220.4	223.4
13478.0	55°	9799.4	4206.9	759.3	314.0	320.0	250.6	202.3	214.3	214.3	214.3
14453.1	57.5°	10370.0	3930.6	538.9	255.1	265.7	205.3	190.2	206.8	205.3	203.8
15627.5	60°	10780.6	3483.8	354.7	209.8	211.3	169.1	176.6	194.7	193.2	185.7
16838.0	62.5°	11087.0	2990.2	227.9	178.1	161.5	152.5	161.5	176.6	170.6	154.0
17864.5	65°	11052.3	2306.5	175.1	152.5	132.8	132.8	140.4	154.0	135.9	108.7
18060.7	67.5°	10407.7	1560.8	144.9	128.3	111.7	110.2	116.2	128.3	116.2	92.1
17055.4	70°	9256.0	1020.4	116.2	99.6	89.1	81.5	93.6	110.2	98.1	74.0
14519.5	72.5°	7512.6	621.9	87.5	72.5	64.9	52.8	74.0	90.6	78.5	54.3
10096.8	75°	4860.5	317.0	60.4	46.8	34.7	31.7	54.3	67.9	54.3	33.2
4480.1	77.5°	1859.7	132.8	33.2	21.1	18.1	15.1	30.2	40.8	22.6	7.5
867.9	80°	357.7	55.9	16.6	10.6	9.1	6.0	4.5	3.0	0.0	0.0
154.0	82.5°	61.9	18.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
30.2	85°	21.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.6	87.5°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
2803.1
1701.2
996.2
810.6
748.7
691.3
637.0
587.2
538.9
492.1
445.3
407.6
375.9
351.7
329.1
310.9
286.8
267.2
253.6
240.0
230.9
223.4
214.3
203.8
185.7
150.9
105.7
89.1
70.9
51.3
28.7
6.0
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