

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: P949572

Luminaire Tested: **GALN-SB4B-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4B-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

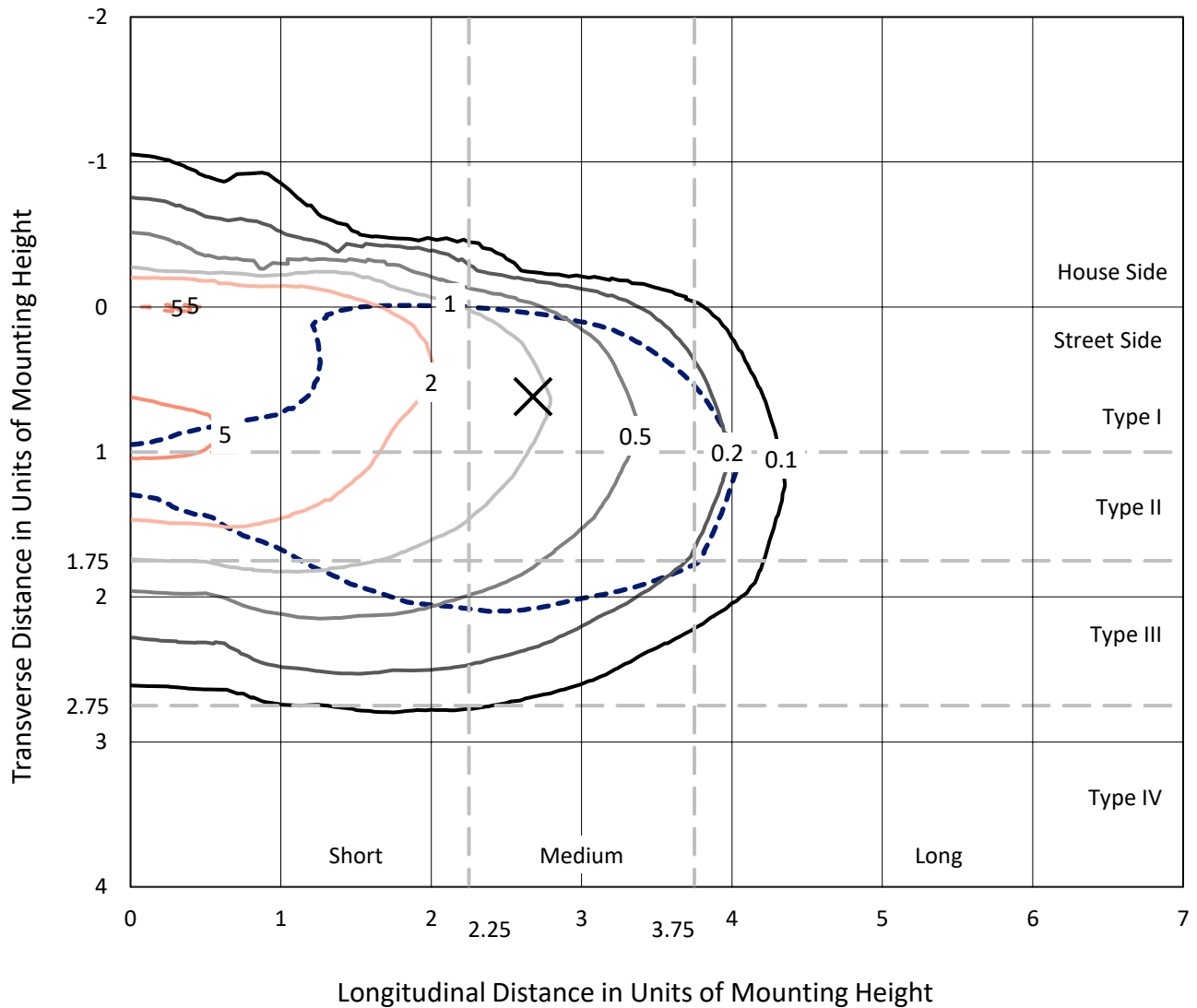
Lumens per Lamp: N/A  
Luminaire Lumens: 19878 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

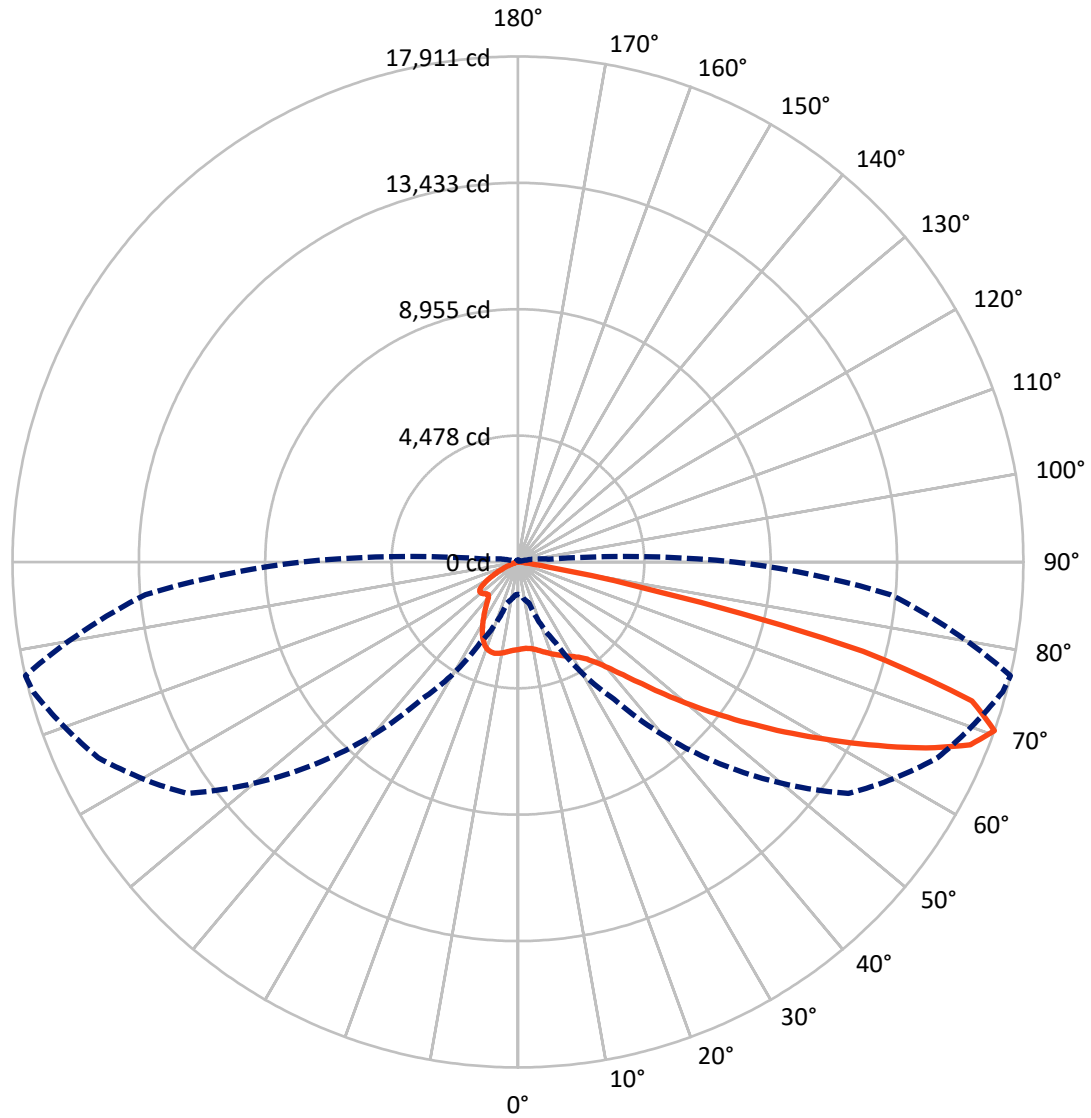
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2095.4	0.0	2095.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	17782.6	0.0	17782.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	19878.0	0.0	19878.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.2	1.3
10°-20°	634.4	3.2
20°-30°	981.2	4.9
30°-40°	1780.4	9.0
40°-50°	3360.7	16.9
50°-60°	4855.9	24.4
60°-70°	5169.0	26.0
70°-80°	2739.2	13.8
80°-90°	89.9	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°	19878.0	100.0
0°-180°	19878.0	100.0

**Coefficient of Utilization**



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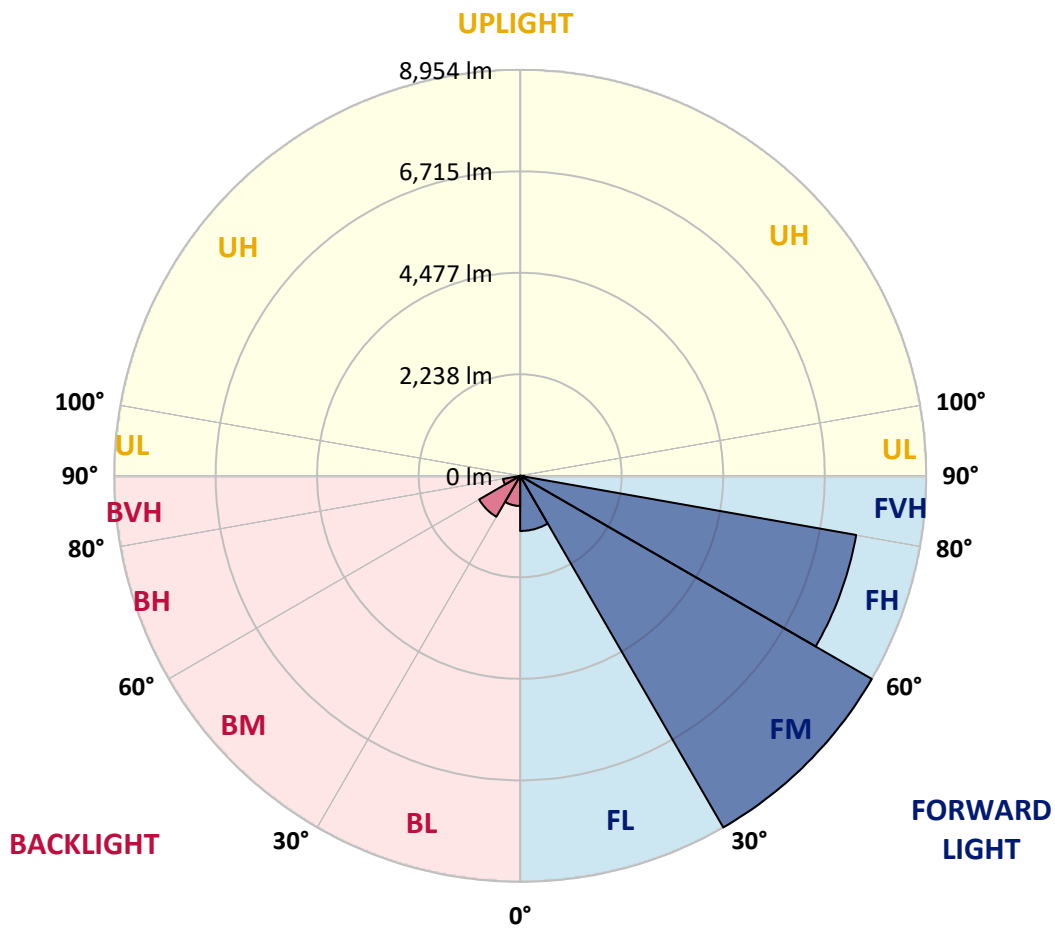
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.0	6.1			
FM (30°-60°)	8953.9	45.0			
FH (60°-80°)	7524.1	37.9			G4/12000
FVH (80°-90°)	87.5	0.4			G1/100
BL (0°-30°)	665.8	3.3	B2/1000		
BM (30°-60°)	1043.1	5.2	B2/2500		
BH (60°-80°)	384.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6
2.5°	2911.1	2937.4	2933.7	2951.2	2957.5	2982.6	3007.7	3041.6	3079.3	3078.0
5°	2746.6	2773.0	2779.3	2803.1	2833.2	2872.1	2923.6	2991.4	3061.7	3073.0
7.5°	2552.0	2579.7	2596.0	2643.7	2698.9	2779.3	2863.4	2962.5	3079.3	3095.6
10°	2357.5	2382.6	2403.9	2471.7	2559.6	2678.8	2815.7	2958.8	3115.7	3139.5
12.5°	2237.0	2260.8	2284.7	2343.7	2452.9	2598.5	2784.3	2976.3	3175.9	3209.8
15°	2194.3	2215.6	2234.4	2287.2	2388.8	2554.6	2778.0	3012.7	3252.5	3297.7
17.5°	2200.6	2211.9	2224.4	2264.6	2363.7	2534.5	2789.3	3075.5	3342.9	3383.1
20°	2237.0	2243.2	2244.5	2272.1	2360.0	2532.0	2811.9	3135.8	3428.2	3482.2
22.5°	2283.4	2285.9	2283.4	2302.2	2383.8	2550.8	2842.0	3208.6	3523.6	3573.9
25°	2500.6	2452.9	2392.6	2356.2	2424.0	2587.2	2887.2	3306.5	3627.8	3676.8
27.5°	3174.7	3037.8	2821.9	2579.7	2506.8	2639.9	2950.0	3405.6	3733.3	3777.2
30°	4269.3	4089.8	3723.2	3177.2	2773.0	2750.4	3031.6	3504.8	3845.0	3892.7
32.5°	5366.4	5322.5	4899.5	4143.8	3371.8	2996.4	3167.1	3639.1	3993.1	4030.8
35°	6476.1	6387.0	6040.5	5293.6	4294.4	3497.3	3393.1	3814.9	4187.7	4230.4
37.5°	7326.0	7272.0	7057.3	6442.2	5389.0	4270.6	3779.7	4087.3	4470.1	4517.9
40°	8076.6	8051.5	7978.7	7573.3	6613.0	5282.3	4381.0	4509.1	4861.8	4918.3
42.5°	8666.6	8725.6	8767.1	8654.1	7874.5	6437.2	5189.4	5101.6	5407.9	5465.6
45°	9270.4	9290.5	9457.5	9620.7	9127.3	7644.8	6100.8	5795.8	6087.0	6158.5
47.5°	9658.3	9738.7	10032.4	10319.9	10180.5	8842.4	7079.9	6615.5	6874.1	7008.4
50°	9687.2	9839.1	10243.3	10744.2	10947.5	9982.2	8144.4	7549.4	7824.3	7972.5
52.5°	9206.4	9442.4	10068.8	10801.9	11361.8	10947.5	9245.3	8483.4	8836.1	9029.4
55°	7058.6	7367.4	9412.3	10488.1	11378.1	11679.4	10317.4	9456.2	9963.4	10181.8
57.5°	6149.8	6305.4	7400.0	9943.3	11075.6	11974.4	11286.5	10382.6	11189.8	11461.0
60°	5116.6	5321.2	6206.2	9052.0	10665.1	12003.2	12142.6	11577.7	12519.2	12824.2
62.5°	3477.2	3699.4	4579.4	7520.5	10104.0	11989.4	12844.3	12807.9	13996.7	14324.3
65°	2154.1	2293.4	2873.4	6141.0	9319.4	12004.5	13578.7	14301.7	15555.8	15888.4
67.5°	1702.2	1766.2	2068.7	4714.9	7967.4	11665.6	14311.8	15706.4	17023.2	17286.8
70°	1143.6	1182.5	1505.1	3160.9	5927.6	10101.5	14297.9	16411.9	17778.9	17910.7
72.5°	602.5	632.7	880.0	1463.7	3580.1	7180.4	12052.2	15568.3	17027.0	16828.6
75°	301.3	351.5	592.5	743.1	1529.0	4004.4	7484.1	12274.4	13401.7	12633.4
77.5°	228.5	276.2	489.6	489.6	532.3	1348.2	3169.7	6694.6	6174.9	5141.7
80°	145.6	188.3	428.1	370.3	222.2	342.7	826.0	1875.4	1311.8	998.0
82.5°	85.4	123.0	356.5	244.8	124.3	126.8	233.5	399.2	340.2	264.9
85°	33.9	80.3	244.8	96.7	49.0	31.4	70.3	85.4	70.3	52.7
87.5°	0.0	18.8	42.7	0.0	3.8	2.5	5.0	6.3	6.3	5.0
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°
3100.6	0°	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6	3100.6
3103.1	2.5°	3114.4	3116.9	3124.5	3125.7	3108.1	3085.5	3076.8	3073.0	3057.9	3056.7
3123.2	5°	3152.1	3163.4	3152.1	3119.4	3041.6	2932.4	2849.5	2781.8	2720.3	2701.4
3192.2	7.5°	3227.4	3238.7	3204.8	3076.8	2880.9	2663.8	2467.9	2329.9	2205.6	2159.1
3276.4	10°	3335.4	3350.4	3243.7	2985.1	2638.7	2289.7	1958.3	1724.8	1542.8	1468.7
3390.6	12.5°	3470.9	3477.2	3265.1	2845.8	2323.6	1825.2	1355.7	1105.9	944.0	883.7
3528.7	15°	3620.3	3611.5	3267.6	2656.2	1894.3	1290.5	885.0	726.8	661.5	641.5
3666.8	17.5°	3777.2	3740.8	3217.4	2382.6	1423.5	882.5	656.5	618.9	607.6	602.5
3803.6	20°	3931.6	3850.0	3125.7	2024.8	1021.8	659.0	596.3	585.0	578.7	576.2
3941.7	22.5°	4072.2	3932.9	2968.8	1609.3	741.9	582.5	563.6	553.6	542.3	537.3
4076.0	25°	4209.0	3980.6	2747.9	1221.4	593.8	544.8	529.7	510.9	495.8	489.6
4220.3	27.5°	4342.1	4010.7	2471.7	903.8	529.7	509.7	482.0	455.7	444.4	441.9
4374.7	30°	4484.0	4020.7	2157.9	674.1	490.8	465.7	425.5	395.4	389.1	390.4
4583.1	32.5°	4657.2	4035.8	1841.5	552.3	458.2	413.0	365.3	333.9	328.9	333.9
4886.9	35°	4864.3	4065.9	1536.5	508.4	429.3	359.0	307.6	281.2	276.2	279.9
5276.1	37.5°	5145.5	4114.9	1251.5	499.6	405.5	313.8	258.6	237.3	237.3	238.5
5753.1	40°	5519.6	4245.4	996.7	493.3	392.9	279.9	218.4	209.6	213.4	215.9
6360.6	42.5°	5975.3	4522.9	824.7	485.8	379.1	264.9	198.3	194.6	200.8	203.4
7088.7	45°	6486.2	4874.4	764.5	473.3	366.5	274.9	189.6	184.5	192.1	193.3
7904.7	47.5°	7014.7	5218.3	757.0	459.4	354.0	290.0	187.0	175.7	184.5	185.8
8775.9	50°	7549.4	5443.0	764.5	438.1	333.9	290.0	188.3	167.0	174.5	178.3
9679.7	52.5°	8087.9	5545.9	759.5	391.7	298.8	272.4	188.3	159.4	167.0	169.5
10656.3	55°	8610.2	5525.9	682.9	322.6	253.6	241.0	183.3	153.1	158.2	159.4
11579.0	57.5°	9023.1	5245.9	541.0	251.1	205.9	200.8	167.0	145.6	149.4	148.1
12425.0	60°	9239.1	4630.8	386.6	193.3	161.9	158.2	146.9	135.6	138.1	131.8
13141.8	62.5°	9241.6	3817.4	258.6	153.1	129.3	125.5	125.5	121.8	119.3	106.7
13696.7	65°	9044.5	2914.8	172.0	121.8	104.2	97.9	105.4	104.2	95.4	77.8
13866.1	67.5°	8597.6	1910.6	130.6	95.4	80.3	76.6	84.1	87.9	81.6	65.3
13248.5	70°	7678.7	1112.2	108.0	74.1	60.3	56.5	67.8	75.3	67.8	52.7
11324.1	72.5°	6378.2	600.0	87.9	55.2	41.4	37.7	54.0	61.5	54.0	38.9
7265.7	75°	4138.7	321.4	67.8	36.4	21.3	23.9	40.2	45.2	37.7	25.1
2132.8	77.5°	1389.6	141.8	42.7	17.6	10.0	10.0	23.9	27.6	17.6	8.8
387.9	80°	310.1	59.0	17.6	7.5	3.8	3.8	5.0	5.0	2.5	0.0
119.3	82.5°	101.7	23.9	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
30.1	85°	38.9	8.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	87.5°	15.1	1.3	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>
3100.6
3059.2
2690.1
2140.3
1437.3
864.9
641.5
601.3
573.7
536.0
487.1
439.4
390.4
332.7
278.7
237.3
215.9
203.4
194.6
187.0
179.5
169.5
159.4
148.1
130.6
102.9
75.3
64.0
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