

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: P950079

Luminaire Tested: **GALN-SB4C-850-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4C-850-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

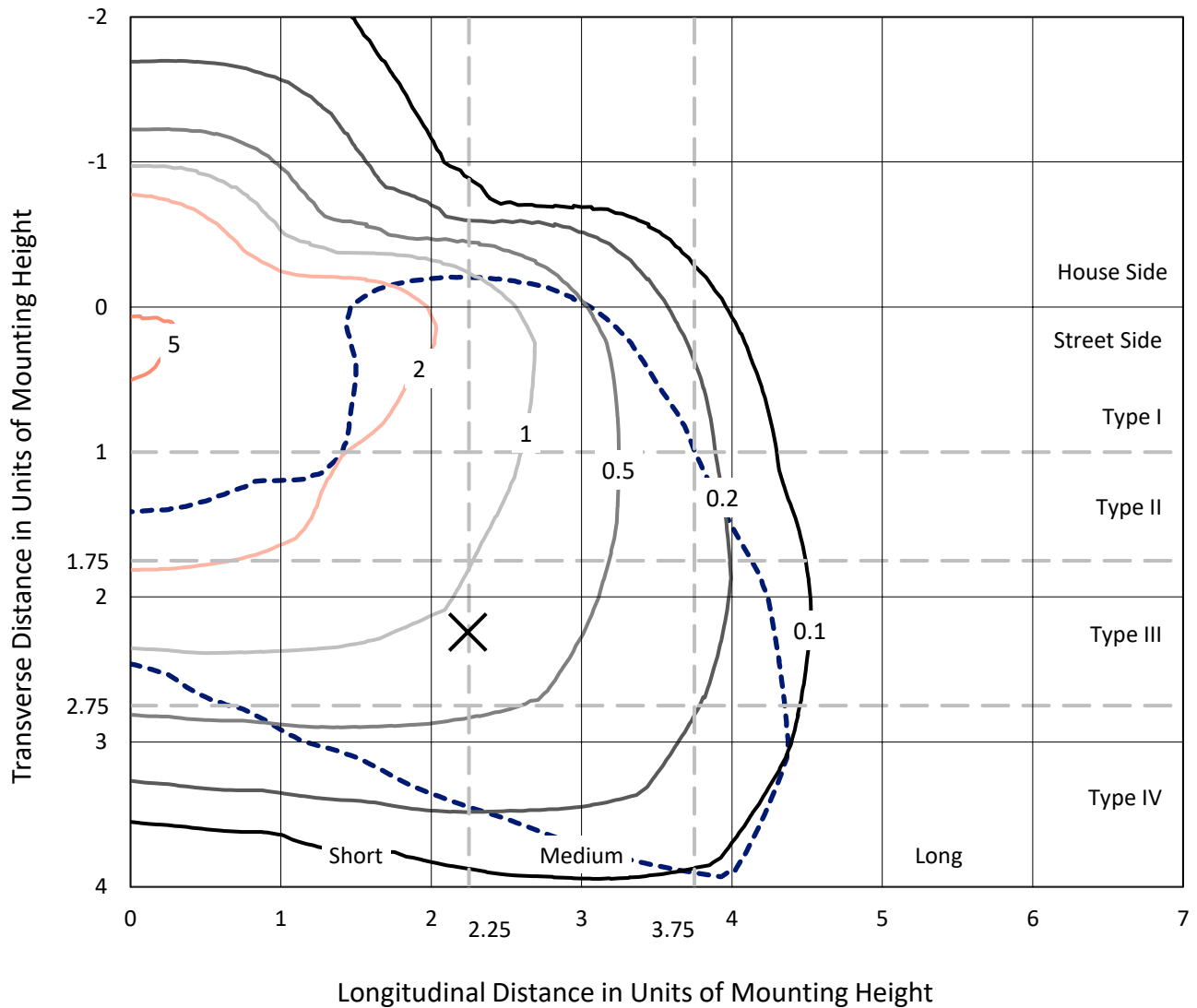
Lumens per Lamp: N/A  
Luminaire Lumens: 28654 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

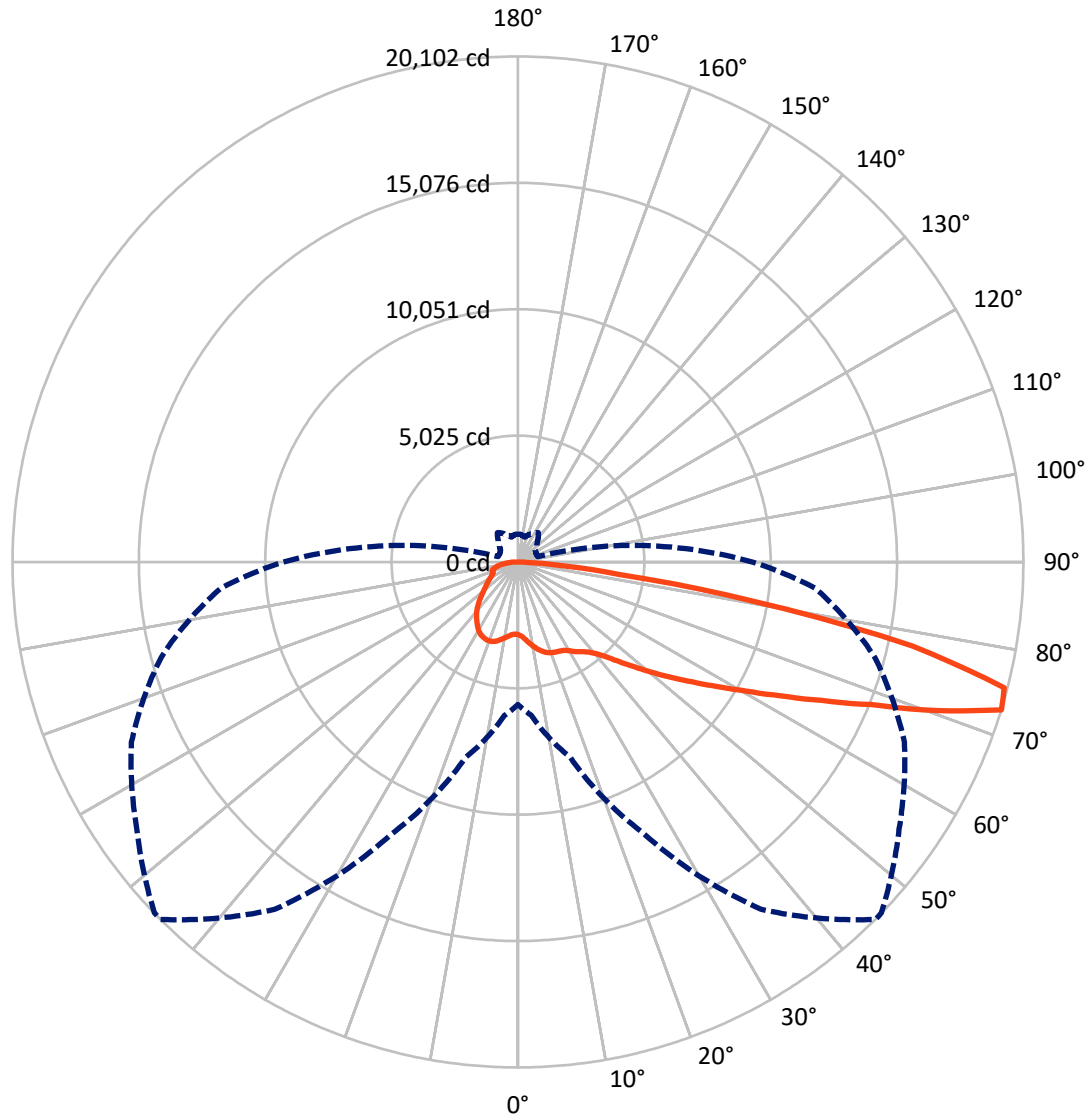
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6477.7	0.0	6477.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	22176.3	0.0	22176.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	28654.0	0.0	28654.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.2	1.0
10°-20°	980.9	3.4
20°-30°	1706.4	6.0
30°-40°	2446.2	8.5
40°-50°	3444.4	12.0
50°-60°	5275.8	18.4
60°-70°	7642.8	26.7
70°-80°	6103.2	21.3
80°-90°	760.1	2.7
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°	28654.0	100.0
0°-180°	28654.0	100.0



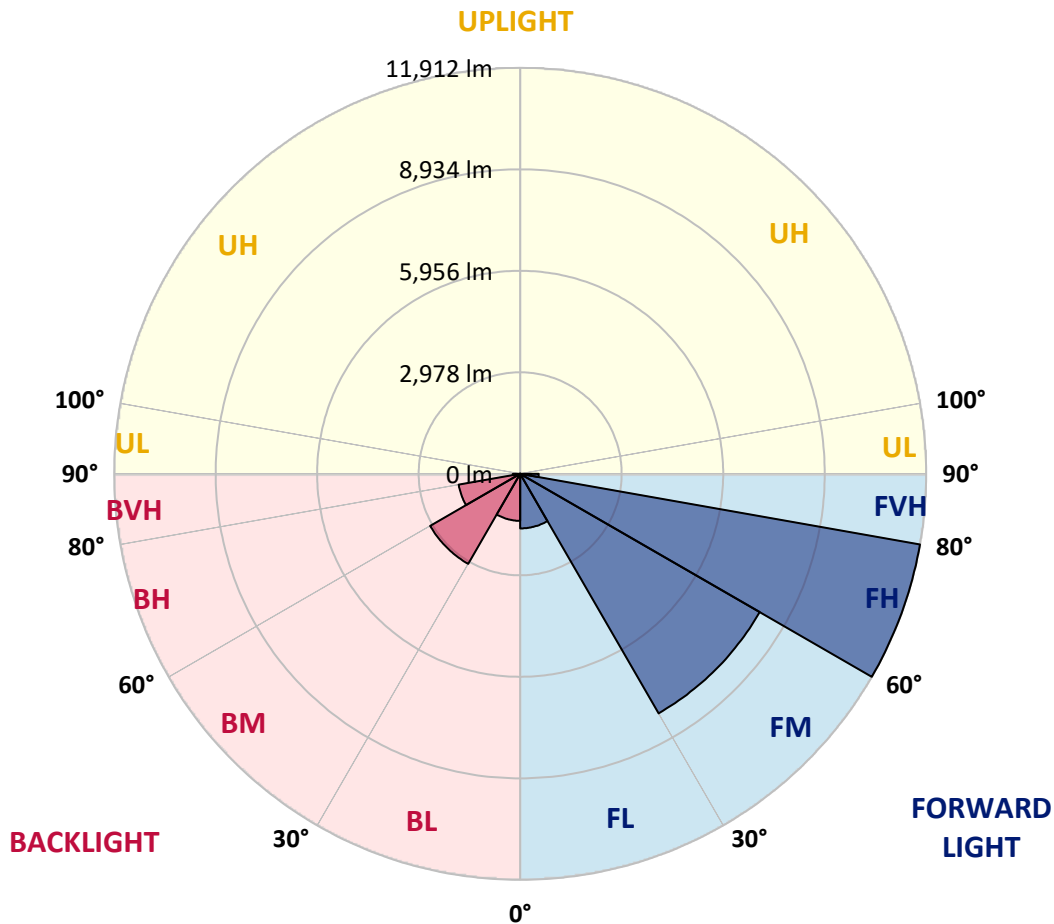
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.4	5.6			
FM (30°-60°)	8116.3	28.3			
FH (60°-80°)	11912.3	41.6			G4/12000
FVH (80°-90°)	545.3	1.9			G4/750
BL (0°-30°)	1379.1	4.8	B3/2500		
BM (30°-60°)	3050.1	10.6	B3/5000		
BH (60°-80°)	1833.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	214.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6
2.5°	3003.8	3023.5	3005.4	2988.7	2981.2	2961.6	2960.1	2948.0	2940.4	2919.3
5°	3213.7	3239.3	3209.1	3175.9	3145.7	3097.4	3091.4	3056.7	3017.4	2972.1
7.5°	3450.6	3473.3	3438.6	3388.8	3335.9	3255.9	3254.4	3191.0	3129.1	3052.1
10°	3657.4	3687.6	3640.8	3572.9	3506.5	3415.9	3405.4	3332.9	3254.4	3154.8
12.5°	3840.1	3861.2	3815.9	3732.9	3655.9	3565.4	3551.8	3471.8	3384.2	3271.0
15°	3985.0	4012.2	3951.8	3862.7	3781.2	3692.2	3680.1	3607.6	3520.1	3400.8
17.5°	4080.1	4102.7	4040.8	3941.2	3862.7	3788.8	3779.7	3719.3	3642.3	3521.6
20°	4116.3	4140.5	4075.6	3974.4	3902.0	3844.6	3840.1	3796.3	3743.5	3633.3
22.5°	4152.5	4175.2	4090.7	3985.0	3921.6	3885.4	3883.9	3855.2	3834.0	3743.5
25°	4299.0	4305.0	4191.8	4039.3	3948.8	3917.1	3915.6	3914.1	3923.1	3852.2
27.5°	4425.8	4424.3	4327.6	4184.2	4043.9	3977.4	3975.9	3991.0	4019.7	3960.8
30°	4611.4	4594.8	4480.1	4330.7	4202.4	4099.7	4090.7	4077.1	4099.7	4052.9
32.5°	5005.4	4952.6	4766.9	4501.2	4333.7	4255.2	4243.1	4158.6	4167.6	4139.0
35°	5569.9	5500.5	5252.9	4824.3	4496.7	4385.0	4379.0	4271.8	4253.7	4228.0
37.5°	6241.6	6155.6	5867.3	5292.2	4777.5	4536.0	4526.9	4430.3	4356.3	4329.2
40°	6916.4	6807.7	6569.2	5862.8	5191.1	4788.0	4759.4	4612.9	4528.4	4483.1
42.5°	7571.5	7480.9	7277.1	6502.8	5701.3	5156.3	5092.9	4842.4	4779.0	4736.7
45°	8151.1	8069.6	7920.2	7186.6	6299.0	5657.5	5595.6	5186.5	5166.9	5166.9
47.5°	8622.1	8604.0	8445.5	7884.0	7003.9	6228.1	6120.9	5665.0	5717.9	5799.4
50°	9144.4	9094.5	8925.5	8570.8	7832.6	6881.7	6794.1	6252.2	6450.0	6673.4
52.5°	9624.4	9651.5	9462.9	9286.2	8768.5	7610.7	7456.8	6945.1	7372.2	7742.1
55°	10118.0	10119.5	10066.6	10042.5	9749.7	8416.8	8247.7	7778.3	8457.5	8916.4
57.5°	10581.4	10584.4	10662.9	10875.7	10887.8	9346.6	9154.9	8801.7	9663.6	10131.5
60°	10995.0	11016.1	11230.4	11728.6	11888.6	10412.3	10231.2	10010.8	10910.4	11381.4
62.5°	11133.8	11210.8	11687.8	12395.7	12877.3	11719.5	11541.4	11410.1	12220.7	12658.4
65°	10898.4	11075.0	11997.3	12946.7	13894.7	13272.8	13096.1	12952.7	13582.2	13994.3
67.5°	10320.2	10548.2	11979.1	13524.8	15129.4	15141.5	14976.9	14640.3	15041.8	15200.3
70°	8797.2	9138.3	10924.0	13740.7	16546.8	17697.0	17538.5	16672.1	16498.5	15731.7
72.5°	5668.1	6126.9	8044.0	11964.0	16862.3	20101.6	20092.5	18506.1	16958.9	14699.2
75°	2068.0	2348.7	3737.4	7509.6	14154.3	19979.3	20038.2	18192.1	15481.1	11354.2
77.5°	753.2	824.2	1219.7	2886.1	8705.1	16030.5	16152.8	14543.7	11019.1	5698.2
80°	395.5	434.7	624.9	1120.0	3729.9	9520.2	9711.9	8643.2	5179.0	1716.3
82.5°	218.9	237.0	350.2	608.3	1680.0	4071.0	4185.8	3414.4	1821.9	727.6
85°	117.7	125.3	164.5	332.1	821.2	1411.4	1443.1	1020.4	726.1	427.2
87.5°	34.7	42.3	54.3	105.7	321.5	317.0	324.5	202.3	286.8	215.9
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°
2890.6	0°	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6	2890.6
2913.3	2.5°	2904.2	2899.7	2883.1	2875.5	2866.5	2865.0	2872.5	2874.0	2875.5	2877.0
2946.5	5°	2931.4	2916.3	2901.2	2892.1	2895.2	2896.7	2911.8	2922.3	2929.9	2935.9
3008.4	7.5°	2984.2	2972.1	2946.5	2945.0	2949.5	2963.1	2982.7	3006.9	3020.4	3031.0
3088.4	10°	3062.7	3040.1	3009.9	3014.4	3023.5	3043.1	3083.8	3103.5	3126.1	3145.7
3186.5	12.5°	3142.7	3123.1	3088.4	3091.4	3106.5	3141.2	3180.4	3204.6	3219.7	3234.8
3292.1	15°	3246.9	3212.1	3174.4	3174.4	3201.6	3239.3	3257.4	3277.1	3286.1	3302.7
3405.4	17.5°	3354.0	3308.8	3258.9	3255.9	3289.1	3307.2	3317.8	3320.8	3323.8	3342.0
3515.6	20°	3461.2	3411.4	3340.5	3334.4	3342.0	3338.9	3337.4	3334.4	3338.9	3361.6
3628.8	22.5°	3566.9	3509.5	3411.4	3384.2	3363.1	3334.4	3332.9	3331.4	3334.4	3357.1
3751.0	25°	3690.6	3621.2	3489.9	3408.4	3337.4	3298.2	3302.7	3304.2	3307.2	3325.4
3877.8	27.5°	3825.0	3748.0	3562.3	3400.8	3272.5	3245.4	3237.8	3242.3	3252.9	3281.6
4004.6	30°	3959.3	3868.8	3628.8	3370.6	3191.0	3153.3	3129.1	3139.7	3172.9	3201.6
4114.8	32.5°	4081.6	3991.0	3681.6	3304.2	3086.9	3028.0	2996.3	3009.9	3043.1	3053.7
4237.1	35°	4225.0	4122.4	3704.2	3198.6	2973.7	2883.1	2840.8	2821.2	2837.8	2827.2
4380.5	37.5°	4385.0	4277.8	3701.2	3059.7	2840.8	2736.7	2677.8	2603.8	2569.1	2532.9
4591.8	40°	4622.0	4468.0	3665.0	2892.1	2676.3	2581.2	2475.5	2350.2	2271.7	2200.8
4932.9	42.5°	4945.0	4732.2	3598.6	2708.0	2490.6	2401.6	2258.2	2111.7	1988.0	1870.2
5450.7	45°	5426.5	5077.8	3515.6	2511.8	2289.9	2202.3	2046.8	1882.3	1741.9	1591.0
6185.8	47.5°	6120.9	5542.8	3437.1	2288.4	2078.5	1998.5	1858.2	1705.7	1539.7	1393.2
7248.5	50°	7074.9	6210.0	3364.6	2071.0	1870.2	1809.9	1698.2	1542.7	1375.1	1257.4
8493.8	52.5°	8288.5	7117.1	3334.4	1861.2	1675.5	1652.9	1563.8	1418.9	1260.4	1160.8
9945.9	55°	9681.7	8202.4	3334.4	1660.4	1504.9	1512.5	1450.6	1316.3	1178.9	1089.8
11443.3	57.5°	11103.6	9301.3	3274.0	1474.8	1360.0	1391.7	1352.5	1234.7	1111.0	1018.9
13017.7	60°	12413.9	10222.1	3029.5	1305.7	1231.7	1281.5	1255.9	1154.7	1003.8	926.8
14333.9	62.5°	13420.7	10741.4	2558.5	1171.3	1126.1	1183.4	1169.8	1049.1	984.2	952.5
15414.7	65°	13924.8	10656.8	1956.3	1052.1	1037.0	1126.1	1097.4	1092.9	1041.5	1005.3
15766.4	67.5°	13615.4	9929.3	1418.9	964.5	985.7	1073.2	1183.4	1201.5	1106.4	1035.5
14776.2	70°	12258.4	8613.0	1056.6	881.5	920.8	1074.7	1349.5	1257.4	1085.3	1002.3
11850.8	72.5°	9325.5	6422.8	819.6	794.0	836.2	1082.3	1423.4	1231.7	1024.9	1107.9
7382.8	75°	5332.9	3526.1	658.1	686.8	730.6	1011.3	1385.7	1165.3	978.1	1017.4
2925.3	77.5°	2033.3	1355.5	543.4	581.1	587.2	883.0	1325.3	1160.8	931.3	908.7
877.0	80°	704.9	529.8	449.8	461.9	454.3	784.9	1271.0	1009.8	762.3	682.3
362.3	82.5°	288.3	264.2	356.2	341.1	323.0	609.8	1026.4	825.7	623.4	551.0
175.1	85°	125.3	167.6	235.5	206.8	187.2	422.7	822.7	698.9	526.8	454.3
57.4	87.5°	25.7	63.4	99.6	93.6	96.6	282.3	584.2	496.6	372.8	279.3
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>
2890.6
2883.1
2938.9
3034.0
3141.2
3240.8
3308.8
3348.0
3370.6
3372.2
3349.5
3310.3
3233.3
3091.4
2860.4
2555.5
2205.3
1859.7
1572.9
1376.6
1249.8
1153.2
1080.8
1003.8
914.7
941.9
993.2
1023.4
988.7
1098.9
1017.4
828.7
659.6
544.9
452.8
218.9
0.0

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