

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: P951066

Luminaire Tested: **GALN-SB5B-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951066  
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-SB5B-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

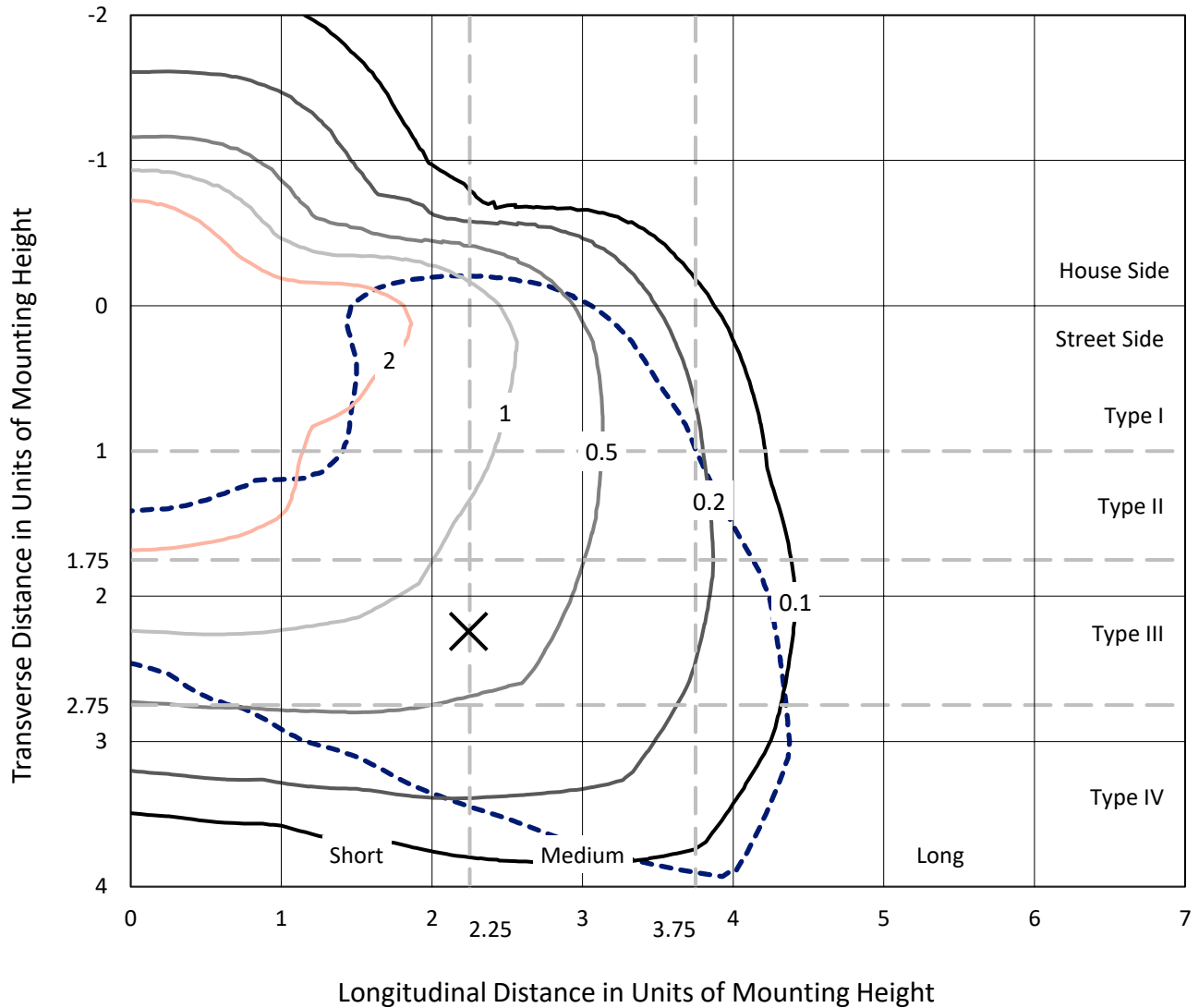
Lumens per Lamp: N/A  
Luminaire Lumens: 24686 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

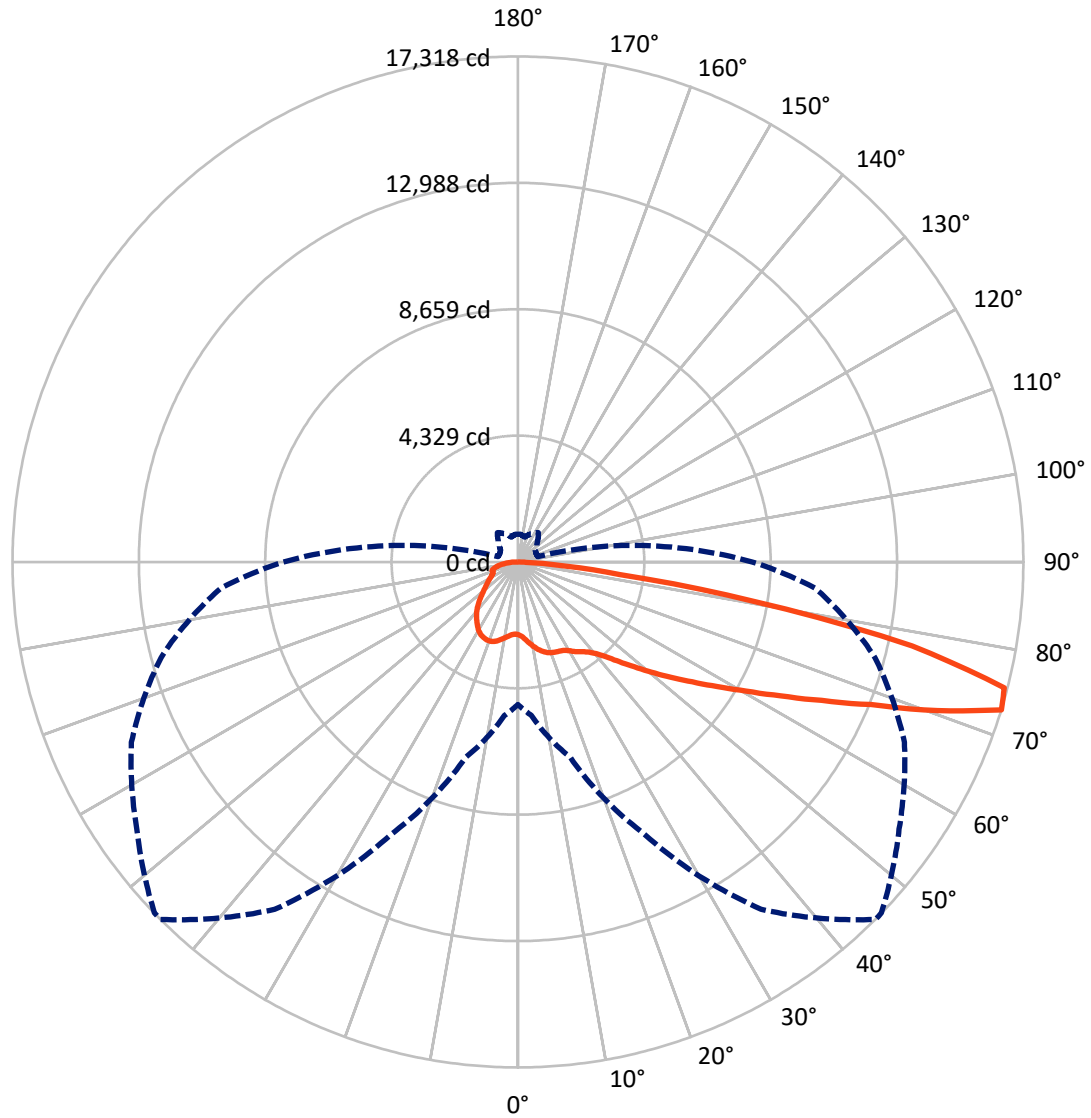
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	5580.7	0.0	5580.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	19105.3	0.0	19105.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	24686.0	0.0	24686.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.5	1.0
10°-20°	845.1	3.4
20°-30°	1470.1	6.0
30°-40°	2107.4	8.5
40°-50°	2967.4	12.0
50°-60°	4545.2	18.4
60°-70°	6584.4	26.7
70°-80°	5258.0	21.3
80°-90°	654.9	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°	24686.0	100.0
0°-180°	24686.0	100.0



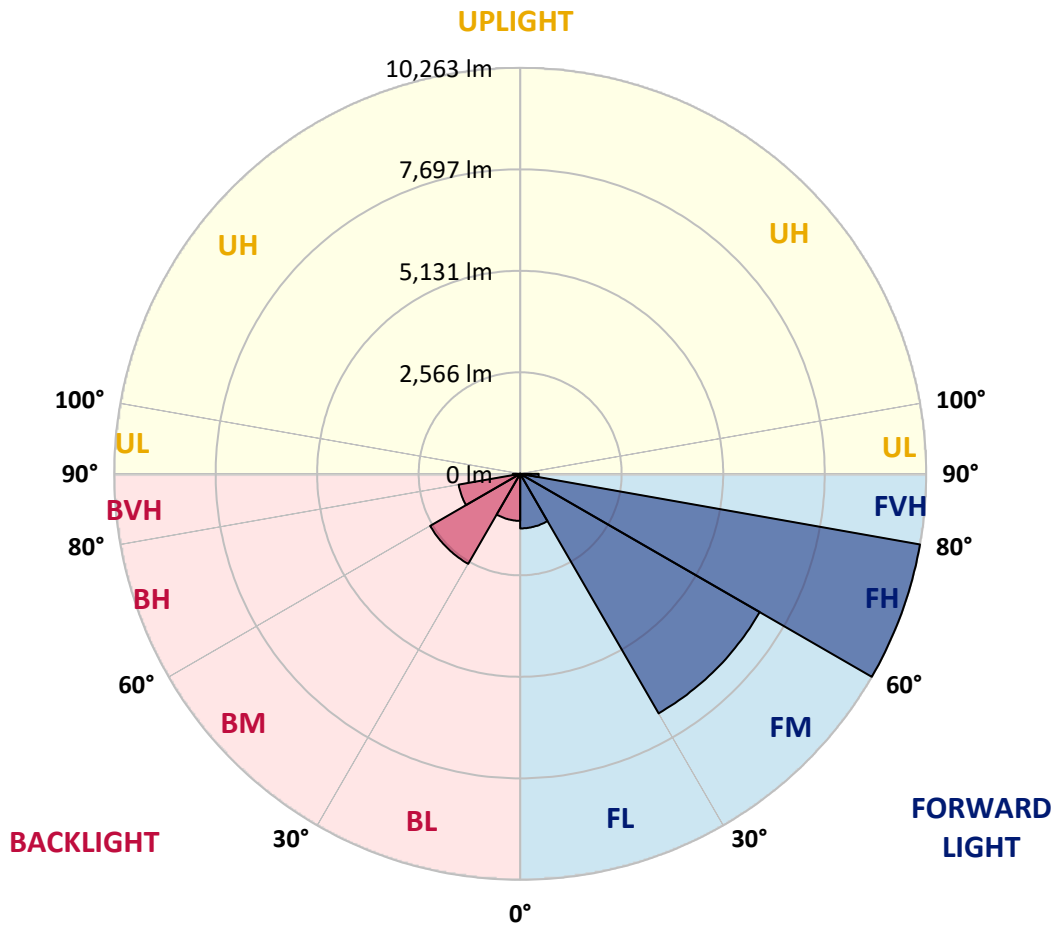
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1380.5	5.6			
FM (30°-60°)	6992.4	28.3			
FH (60°-80°)	10262.7	41.6			G4/12000
FVH (80°-90°)	469.8	1.9			G3/500
BL (0°-30°)	1188.2	4.8	B3/2500		
BM (30°-60°)	2627.7	10.6	B3/5000		
BH (60°-80°)	1579.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	185.1	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°	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3
2.5°	2587.9	2604.8	2589.2	2574.9	2568.4	2551.5	2550.2	2539.8	2533.3	2515.0
5°	2768.6	2790.7	2764.7	2736.1	2710.1	2668.5	2663.3	2633.4	2599.6	2560.6
7.5°	2972.8	2992.3	2962.4	2919.5	2874.0	2805.0	2803.7	2749.1	2695.8	2629.5
10°	3151.0	3177.0	3136.7	3078.1	3020.9	2942.9	2933.8	2871.4	2803.7	2717.9
12.5°	3308.3	3326.5	3287.5	3216.0	3149.7	3071.6	3059.9	2991.0	2915.6	2818.0
15°	3433.2	3456.6	3404.5	3327.8	3257.6	3180.9	3170.5	3108.0	3032.6	2929.9
17.5°	3515.1	3534.6	3481.3	3395.4	3327.8	3264.1	3256.3	3204.3	3138.0	3033.9
20°	3546.3	3567.1	3511.2	3424.1	3361.6	3312.2	3308.3	3270.6	3225.1	3130.2
22.5°	3577.5	3597.0	3524.2	3433.2	3378.5	3347.3	3346.0	3321.3	3303.1	3225.1
25°	3703.6	3708.8	3611.3	3480.0	3401.9	3374.6	3373.3	3372.0	3379.8	3318.7
27.5°	3812.9	3811.6	3728.4	3604.8	3483.9	3426.7	3425.4	3438.4	3463.1	3412.3
30°	3972.8	3958.5	3859.7	3731.0	3620.4	3532.0	3524.2	3512.5	3532.0	3491.7
32.5°	4312.2	4266.7	4106.8	3877.9	3733.6	3665.9	3655.5	3582.7	3590.5	3565.8
35°	4798.6	4738.8	4525.5	4156.2	3874.0	3777.8	3772.6	3680.2	3664.6	3642.5
37.5°	5377.3	5303.2	5054.8	4559.3	4115.9	3907.8	3900.0	3816.8	3753.1	3729.7
40°	5958.6	5865.0	5659.5	5050.9	4472.2	4125.0	4100.3	3974.1	3901.3	3862.3
42.5°	6523.0	6445.0	6269.4	5602.3	4911.8	4442.3	4387.7	4171.8	4117.2	4080.8
45°	7022.4	6952.1	6823.4	6191.4	5426.7	4874.0	4820.7	4468.3	4451.4	4451.4
47.5°	7428.1	7412.5	7275.9	6792.2	6034.0	5365.6	5273.3	4880.5	4926.1	4996.3
50°	7878.0	7835.1	7689.5	7383.9	6748.0	5928.7	5853.3	5386.4	5556.8	5749.2
52.5°	8291.6	8315.0	8152.4	8000.3	7554.2	6556.8	6424.2	5983.3	6351.3	6669.9
55°	8716.8	8718.1	8672.6	8651.8	8399.5	7251.2	7105.6	6701.2	7286.3	7681.7
57.5°	9116.1	9118.7	9186.3	9369.6	9380.1	8052.3	7887.2	7582.8	8325.4	8728.5
60°	9472.4	9490.6	9675.3	10104.4	10242.2	8970.4	8814.4	8624.5	9399.6	9805.3
62.5°	9592.0	9658.3	10069.3	10679.2	11094.0	10096.6	9943.1	9830.0	10528.3	10905.5
65°	9389.2	9541.3	10335.9	11153.8	11970.5	11434.7	11282.6	11159.1	11701.3	12056.4
67.5°	8891.1	9087.5	10320.3	11651.9	13034.3	13044.7	12902.9	12612.9	12958.9	13095.4
70°	7578.9	7872.8	9411.3	11837.9	14255.4	15246.3	15109.8	14363.3	14213.8	13553.2
72.5°	4883.1	5278.5	6930.0	10307.3	14527.2	17317.9	17310.1	15943.4	14610.4	12663.7
75°	1781.6	2023.5	3219.9	6469.7	12194.2	17212.6	17263.3	15672.9	13337.3	9781.9
77.5°	648.9	710.0	1050.8	2486.4	7499.6	13810.6	13916.0	12529.7	9493.2	4909.1
80°	340.7	374.5	538.4	964.9	3213.4	8201.9	8367.0	7446.3	4461.8	1478.6
82.5°	188.6	204.2	301.7	524.1	1447.4	3507.3	3606.1	2941.6	1569.6	626.8
85°	101.4	107.9	141.7	286.1	707.4	1215.9	1243.2	879.1	625.5	368.0
87.5°	29.9	36.4	46.8	91.0	277.0	273.1	279.6	174.3	247.1	186.0
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°
2490.3	0°	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3	2490.3
2509.8	2.5°	2502.0	2498.1	2483.8	2477.3	2469.5	2468.2	2474.7	2476.0	2477.3	2478.6
2538.5	5°	2525.4	2512.4	2499.4	2491.6	2494.2	2495.5	2508.5	2517.6	2524.1	2529.4
2591.8	7.5°	2571.0	2560.6	2538.5	2537.2	2541.1	2552.8	2569.7	2590.5	2602.2	2611.3
2660.7	10°	2638.6	2619.1	2593.1	2597.0	2604.8	2621.7	2656.8	2673.7	2693.2	2710.1
2745.2	12.5°	2707.5	2690.6	2660.7	2663.3	2676.3	2706.2	2740.0	2760.8	2773.8	2786.8
2836.3	15°	2797.2	2767.3	2734.8	2734.8	2758.2	2790.7	2806.3	2823.2	2831.1	2845.4
2933.8	17.5°	2889.6	2850.6	2807.6	2805.0	2833.7	2849.3	2858.4	2861.0	2863.6	2879.2
3028.7	20°	2981.9	2939.0	2877.9	2872.7	2879.2	2876.6	2875.3	2872.7	2876.6	2896.1
3126.3	22.5°	3072.9	3023.5	2939.0	2915.6	2897.4	2872.7	2871.4	2870.1	2872.7	2892.2
3231.6	25°	3179.6	3119.7	3006.6	2936.4	2875.3	2841.5	2845.4	2846.7	2849.3	2864.9
3340.8	27.5°	3295.3	3229.0	3069.0	2929.9	2819.3	2795.9	2789.4	2793.3	2802.4	2827.2
3450.1	30°	3411.0	3333.0	3126.3	2903.9	2749.1	2716.6	2695.8	2704.9	2733.5	2758.2
3545.0	32.5°	3516.4	3438.4	3171.8	2846.7	2659.4	2608.7	2581.4	2593.1	2621.7	2630.8
3650.3	35°	3639.9	3551.5	3191.3	2755.6	2561.9	2483.8	2447.4	2430.5	2444.8	2435.7
3773.9	37.5°	3777.8	3685.4	3188.7	2636.0	2447.4	2357.7	2307.0	2243.3	2213.3	2182.1
3955.9	40°	3981.9	3849.3	3157.5	2491.6	2305.7	2223.7	2132.7	2024.8	1957.2	1896.0
4249.8	42.5°	4260.2	4076.9	3100.2	2333.0	2145.7	2069.0	1945.5	1819.3	1712.7	1611.2
4695.9	45°	4675.1	4374.7	3028.7	2163.9	1972.8	1897.3	1763.4	1621.6	1500.7	1370.7
5329.2	47.5°	5273.3	4775.2	2961.1	1971.5	1790.7	1721.8	1600.8	1469.5	1326.4	1200.3
6244.7	50°	6095.1	5350.0	2898.7	1784.2	1611.2	1559.2	1463.0	1329.0	1184.7	1083.3
7317.6	52.5°	7140.7	6131.6	2872.7	1603.4	1443.5	1424.0	1347.3	1222.4	1085.9	1000.0
8568.6	55°	8341.0	7066.6	2872.7	1430.5	1296.5	1303.0	1249.7	1134.0	1015.6	938.9
9858.6	57.5°	9566.0	8013.3	2820.6	1270.5	1171.7	1199.0	1165.2	1063.8	957.1	877.8
11215.0	60°	10694.8	8806.6	2610.0	1124.9	1061.2	1104.1	1082.0	994.8	864.8	798.5
12349.0	62.5°	11562.2	9253.9	2204.2	1009.1	970.1	1019.5	1007.8	903.8	847.9	820.6
13280.1	65°	11996.5	9181.1	1685.4	906.4	893.4	970.1	945.4	941.5	897.3	866.1
13583.1	67.5°	11729.9	8554.3	1222.4	831.0	849.2	924.6	1019.5	1035.1	953.2	892.1
12730.0	70°	10560.8	7420.3	910.3	759.5	793.3	925.9	1162.6	1083.3	935.0	863.5
10209.7	72.5°	8034.1	5533.4	706.1	684.0	720.4	932.4	1226.3	1061.2	883.0	954.5
6360.4	75°	4594.4	3037.8	567.0	591.7	629.4	871.3	1193.8	1003.9	842.7	876.5
2520.2	77.5°	1751.7	1167.8	468.2	500.7	505.9	760.8	1141.8	1000.0	802.4	782.9
755.6	80°	607.3	456.5	387.5	397.9	391.4	676.2	1095.0	870.0	656.7	587.8
312.1	82.5°	248.4	227.6	306.9	293.9	278.3	525.4	884.3	711.3	537.1	474.7
150.9	85°	107.9	144.3	202.9	178.2	161.3	364.1	708.7	602.1	453.9	391.4
49.4	87.5°	22.1	54.6	85.8	80.6	83.2	243.2	503.3	427.8	321.2	240.6
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>
2490.3
2483.8
2532.0
2613.9
2706.2
2792.0
2850.6
2884.4
2903.9
2905.2
2885.7
2851.9
2785.5
2663.3
2464.3
2201.6
1899.9
1602.1
1355.1
1186.0
1076.8
993.5
931.1
864.8
788.1
811.5
855.7
881.7
851.8
946.7
876.5
713.9
568.3
469.5
390.1
188.6
0.0

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