

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: P951528

Luminaire Tested: **GALN-SB5C-927-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951528  
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-SB5C-927-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

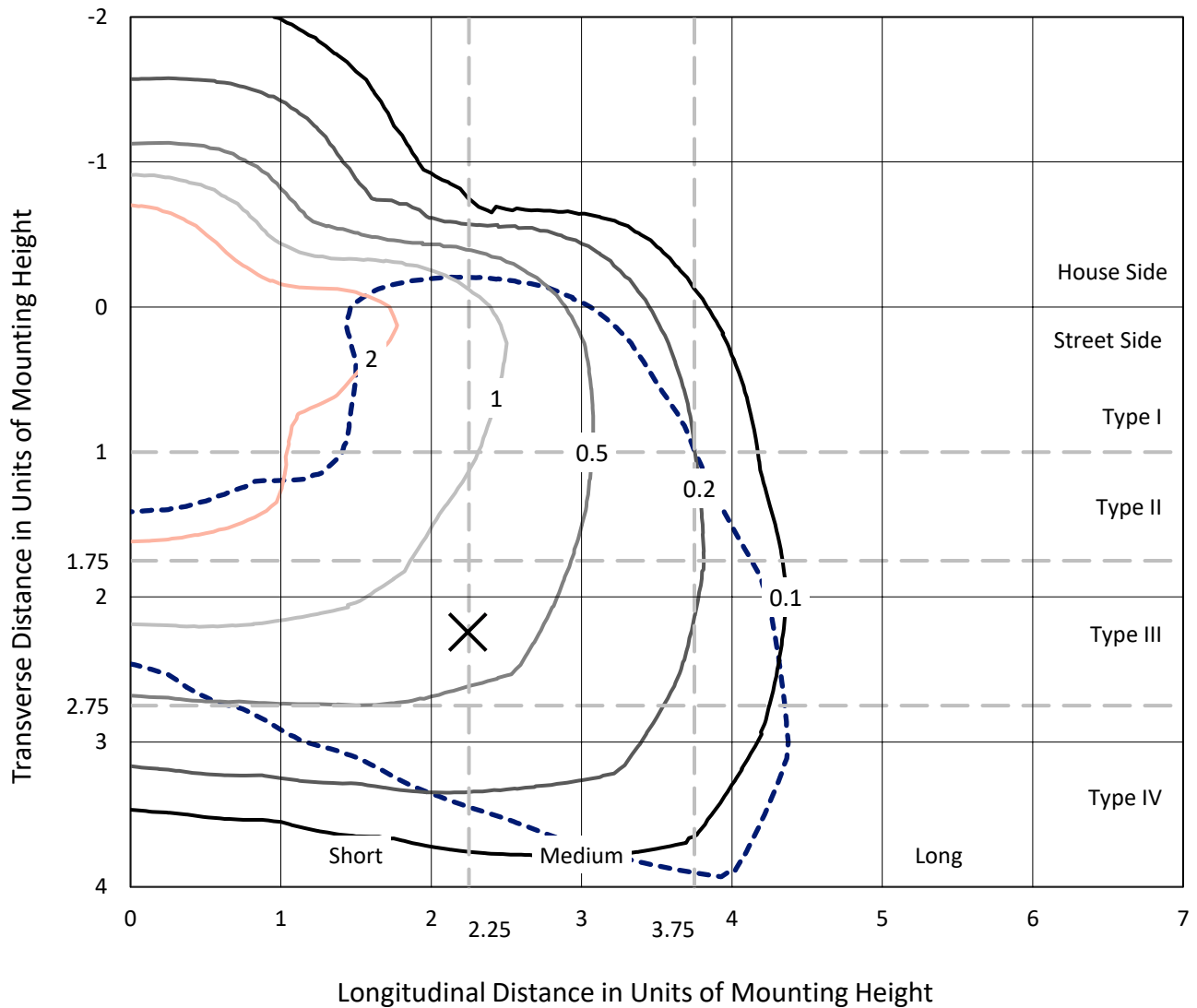
Lumens per Lamp: N/A  
Luminaire Lumens: 22982 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

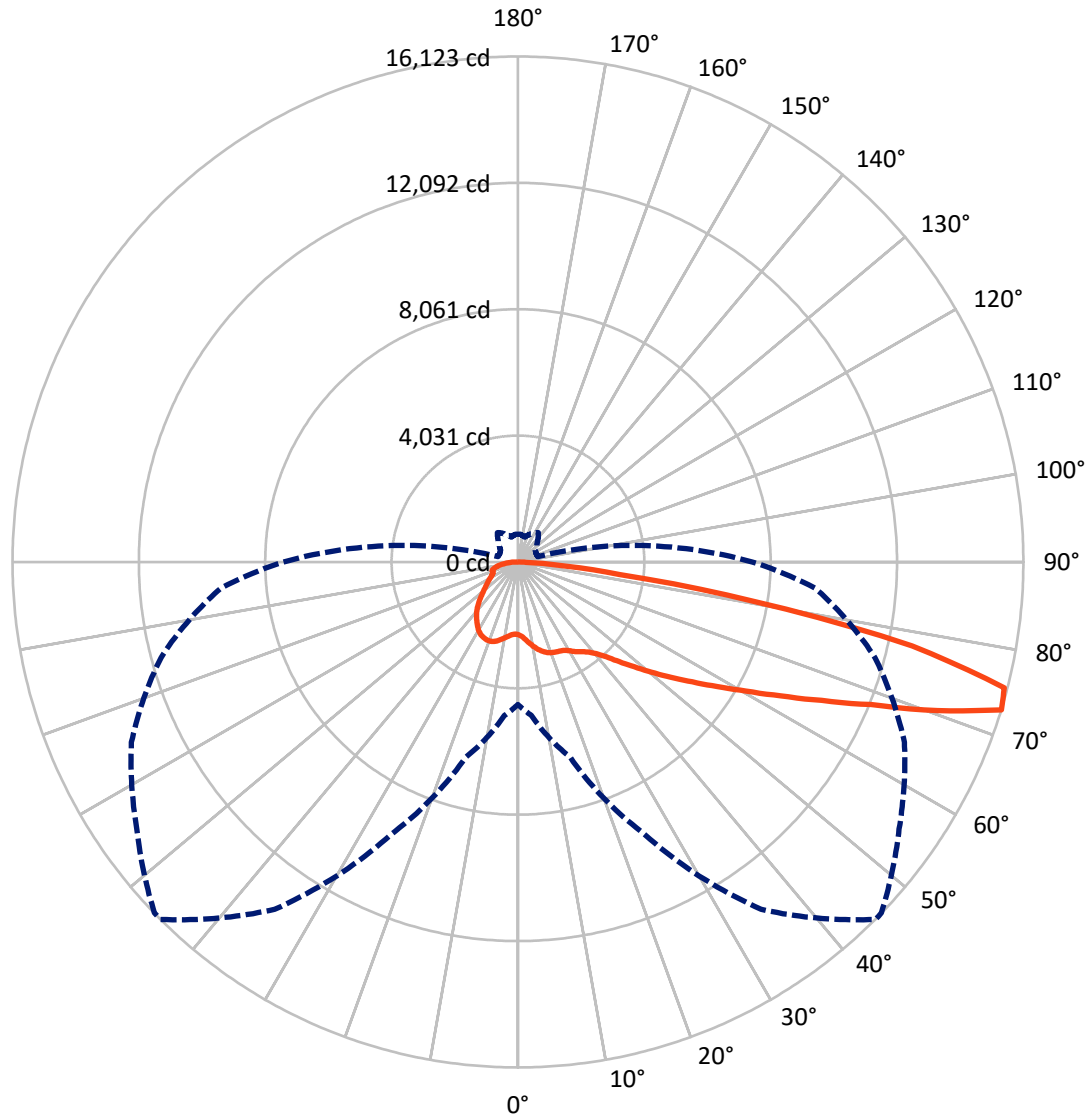
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	5195.4	0.0	5195.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	17786.5	0.0	17786.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	22982.0	0.0	22982.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.0	1.0
10°-20°	786.8	3.4
20°-30°	1368.6	6.0
30°-40°	1962.0	8.5
40°-50°	2762.6	12.0
50°-60°	4231.5	18.4
60°-70°	6129.9	26.7
70°-80°	4895.1	21.3
80°-90°	609.7	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°	22982.0	100.0
0°-180°	22982.0	100.0



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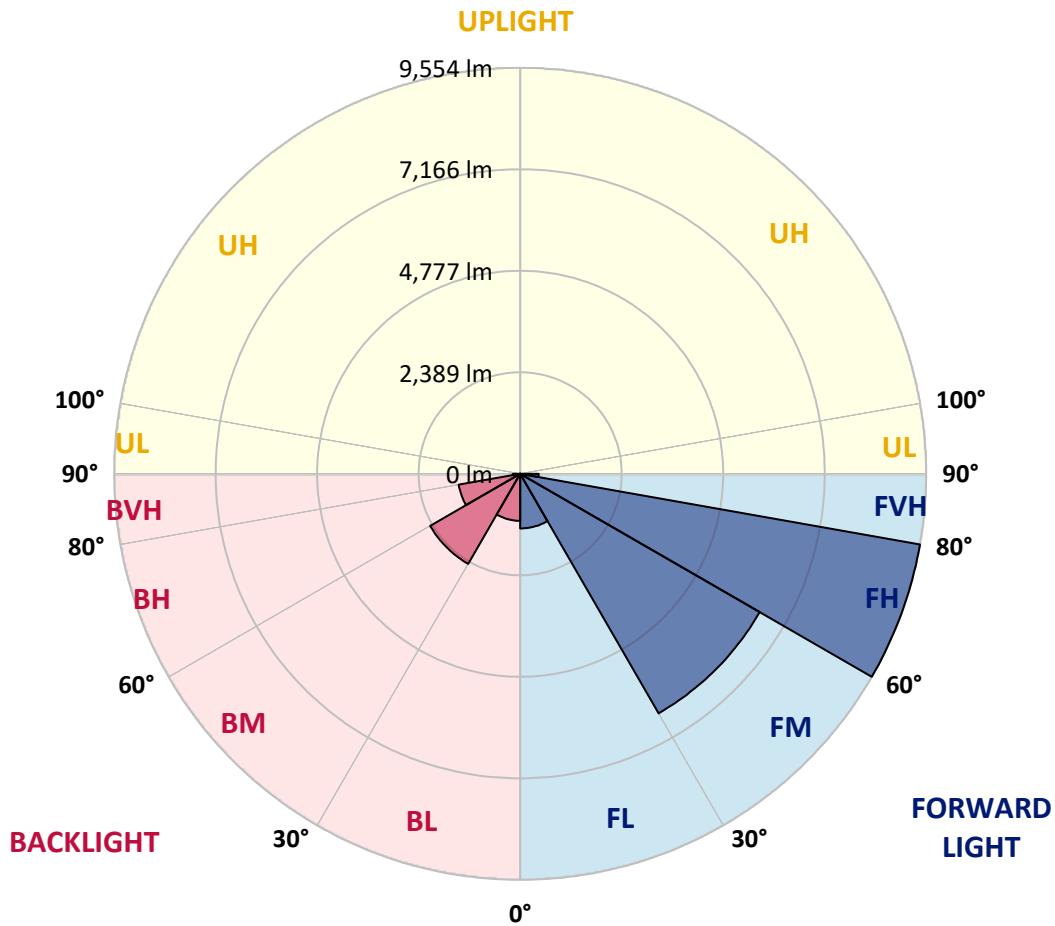
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.2	5.6			
FM (30°-60°)	6509.7	28.3			
FH (60°-80°)	9554.3	41.6			G4/12000
FVH (80°-90°)	437.4	1.9			G3/500
BL (0°-30°)	1106.2	4.8	B3/2500		
BM (30°-60°)	2446.3	10.6	B2/2500		
BH (60°-80°)	1470.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	172.3	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°	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4
2.5°	2409.2	2425.0	2410.4	2397.1	2391.1	2375.3	2374.1	2364.4	2358.4	2341.4
5°	2577.5	2598.1	2573.9	2547.3	2523.0	2484.3	2479.5	2451.6	2420.1	2383.8
7.5°	2767.6	2785.8	2757.9	2718.0	2675.6	2611.4	2610.2	2559.4	2509.7	2448.0
10°	2933.5	2957.7	2920.1	2865.7	2812.4	2739.8	2731.3	2673.2	2610.2	2530.3
12.5°	3079.9	3096.9	3060.6	2994.0	2932.2	2859.6	2848.7	2784.5	2714.3	2623.5
15°	3196.2	3218.0	3169.5	3098.1	3032.7	2961.3	2951.6	2893.5	2823.3	2727.6
17.5°	3272.4	3290.6	3241.0	3161.1	3098.1	3038.8	3031.5	2983.1	2921.4	2824.5
20°	3301.5	3320.9	3268.8	3187.7	3129.6	3083.6	3079.9	3044.8	3002.5	2914.1
22.5°	3330.6	3348.7	3280.9	3196.2	3145.3	3116.3	3115.1	3092.1	3075.1	3002.5
25°	3448.0	3452.8	3362.0	3239.8	3167.1	3141.7	3140.5	3139.3	3146.5	3089.6
27.5°	3549.7	3548.5	3471.0	3356.0	3243.4	3190.1	3188.9	3201.0	3224.0	3176.8
30°	3698.6	3685.3	3593.3	3473.4	3370.5	3288.2	3280.9	3270.0	3288.2	3250.7
32.5°	4014.6	3972.2	3823.3	3610.2	3475.8	3412.9	3403.2	3335.4	3342.7	3319.7
35°	4467.4	4411.7	4213.1	3869.3	3606.6	3517.0	3512.2	3426.2	3411.7	3391.1
37.5°	5006.1	4937.1	4705.9	4244.6	3831.8	3638.1	3630.8	3553.3	3494.0	3472.2
40°	5547.3	5460.1	5268.8	4702.2	4163.5	3840.3	3817.2	3699.8	3632.0	3595.7
42.5°	6072.7	6000.1	5836.6	5215.6	4572.7	4135.7	4084.8	3883.8	3833.0	3799.1
45°	6537.6	6472.3	6352.4	5764.0	5052.1	4537.6	4488.0	4159.9	4144.1	4144.1
47.5°	6915.4	6900.8	6773.7	6323.3	5617.5	4995.2	4909.3	4543.7	4586.0	4651.4
50°	7334.2	7294.3	7158.7	6874.2	6282.2	5519.5	5449.2	5014.6	5173.2	5352.4
52.5°	7719.2	7741.0	7589.7	7448.1	7032.8	6104.2	5980.7	5570.3	5912.9	6209.5
55°	8115.1	8116.3	8074.0	8054.6	7819.7	6750.7	6615.1	6238.6	6783.4	7151.4
57.5°	8486.8	8489.2	8552.2	8722.9	8732.6	7496.5	7342.7	7059.4	7750.7	8126.0
60°	8818.5	8835.5	9007.4	9406.9	9535.3	8351.2	8205.9	8029.2	8750.7	9128.5
62.5°	8929.9	8991.7	9374.2	9942.0	10328.2	9399.7	9256.8	9151.5	9801.6	10152.7
65°	8741.1	8882.7	9622.4	10383.9	11144.2	10645.4	10503.8	10388.8	10893.6	11224.1
67.5°	8277.4	8460.2	9607.9	10847.6	12134.6	12144.2	12012.3	11742.3	12064.3	12191.5
70°	7055.8	7329.4	8761.6	11020.7	13271.4	14193.9	14066.8	13371.9	13232.6	12617.6
72.5°	4546.1	4914.1	6451.7	9595.8	13524.4	16122.5	16115.3	14842.8	13601.9	11789.5
75°	1658.6	1883.8	2997.6	6023.1	11352.5	16024.5	16071.7	14591.0	12416.6	9106.7
77.5°	604.1	661.0	978.2	2314.8	6981.9	12857.3	12955.4	11664.8	8837.9	4570.3
80°	317.2	348.7	501.2	898.3	2991.6	7635.7	7789.5	6932.3	4153.8	1376.5
82.5°	175.5	190.1	280.9	487.9	1347.5	3265.2	3357.2	2738.5	1461.3	583.5
85°	94.4	100.5	132.0	266.3	658.6	1132.0	1157.4	818.4	582.3	342.6
87.5°	27.8	33.9	43.6	84.7	257.9	254.2	260.3	162.2	230.0	173.1
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°
2318.4	0°	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4	2318.4
2336.6	2.5°	2329.3	2325.7	2312.4	2306.3	2299.1	2297.9	2303.9	2305.1	2306.3	2307.5
2363.2	5°	2351.1	2339.0	2326.9	2319.6	2322.1	2323.3	2335.4	2343.9	2349.9	2354.8
2412.9	7.5°	2393.5	2383.8	2363.2	2362.0	2365.7	2376.5	2392.3	2411.7	2422.6	2431.0
2477.0	10°	2456.5	2438.3	2414.1	2417.7	2425.0	2440.7	2473.4	2489.1	2507.3	2523.0
2555.7	12.5°	2520.6	2504.9	2477.0	2479.5	2491.6	2519.4	2550.9	2570.3	2582.4	2594.5
2640.5	15°	2604.2	2576.3	2546.0	2546.0	2567.8	2598.1	2612.6	2628.4	2635.6	2648.9
2731.3	17.5°	2690.1	2653.8	2613.8	2611.4	2638.1	2652.6	2661.1	2663.5	2665.9	2680.4
2819.7	20°	2776.1	2736.1	2679.2	2674.4	2680.4	2678.0	2676.8	2674.4	2678.0	2696.2
2910.5	22.5°	2860.8	2814.8	2736.1	2714.3	2697.4	2674.4	2673.2	2672.0	2674.4	2692.5
3008.5	25°	2960.1	2904.4	2799.1	2733.7	2676.8	2645.3	2648.9	2650.2	2652.6	2667.1
3110.2	27.5°	3067.8	3006.1	2857.2	2727.6	2624.7	2602.9	2596.9	2600.5	2609.0	2632.0
3211.9	30°	3175.6	3103.0	2910.5	2703.4	2559.4	2529.1	2509.7	2518.2	2544.8	2567.8
3300.3	32.5°	3273.7	3201.0	2952.8	2650.2	2475.8	2428.6	2403.2	2414.1	2440.7	2449.2
3398.4	35°	3388.7	3306.3	2971.0	2565.4	2385.0	2312.4	2278.5	2262.7	2276.1	2267.6
3513.4	37.5°	3517.0	3431.0	2968.6	2454.0	2278.5	2194.9	2147.7	2088.4	2060.6	2031.5
3682.9	40°	3707.1	3583.6	2939.5	2319.6	2146.5	2070.2	1985.5	1885.0	1822.1	1765.2
3956.5	42.5°	3966.2	3795.5	2886.2	2171.9	1997.6	1926.2	1811.2	1693.7	1594.5	1500.0
4371.7	45°	4352.4	4072.7	2819.7	2014.6	1836.6	1766.4	1641.7	1509.7	1397.1	1276.0
4961.3	47.5°	4909.3	4445.6	2756.7	1835.4	1667.1	1602.9	1490.3	1368.1	1234.9	1117.5
5813.6	50°	5674.4	4980.7	2698.6	1661.0	1500.0	1451.6	1362.0	1237.3	1102.9	1008.5
6812.5	52.5°	6647.8	5708.3	2674.4	1492.8	1343.8	1325.7	1254.3	1138.0	1010.9	931.0
7977.1	55°	7765.2	6578.8	2674.4	1331.7	1207.0	1213.1	1163.5	1055.7	945.5	874.1
9178.1	57.5°	8905.7	7460.2	2625.9	1182.8	1090.8	1116.2	1084.8	990.3	891.1	817.2
10440.8	60°	9956.6	8198.7	2429.8	1047.2	987.9	1027.9	1007.3	926.2	805.1	743.4
11496.5	62.5°	10764.1	8615.1	2052.1	939.5	903.2	949.2	938.3	841.4	789.4	763.9
12363.4	65°	11168.4	8547.3	1569.0	843.8	831.7	903.2	880.2	876.5	835.4	806.3
12645.5	67.5°	10920.3	7963.8	1138.0	773.6	790.6	860.8	949.2	963.7	887.4	830.5
11851.3	70°	9831.9	6908.1	847.5	707.0	738.5	862.0	1082.3	1008.5	870.5	803.9
9505.0	72.5°	7479.5	5151.4	657.4	636.8	670.7	868.1	1141.7	987.9	822.0	888.6
5921.4	75°	4277.3	2828.1	527.9	550.9	586.0	811.2	1111.4	934.6	784.5	816.0
2346.3	77.5°	1630.8	1087.2	435.8	466.1	471.0	708.2	1063.0	931.0	747.0	728.8
703.4	80°	565.4	424.9	360.8	370.5	364.4	629.5	1019.4	809.9	611.4	547.2
290.6	82.5°	231.2	211.9	285.7	273.6	259.1	489.1	823.3	662.2	500.0	441.9
140.4	85°	100.5	134.4	188.9	165.9	150.1	339.0	659.8	560.5	422.5	364.4
46.0	87.5°	20.6	50.8	79.9	75.1	77.5	226.4	468.5	398.3	299.0	224.0
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

180°  
2318.4  
2312.4  
2357.2  
2433.5  
2519.4  
2599.3  
2653.8  
2685.3  
2703.4  
2704.6  
2686.5  
2655.0  
2593.3  
2479.5  
2294.2  
2049.7  
1768.8  
1491.5  
1261.5  
1104.1  
1002.4  
925.0  
866.8  
805.1  
733.7  
755.5  
796.6  
820.8  
793.0  
*881.4*  
816.0  
664.7  
529.1  
437.1  
363.2  
175.5  
0.0

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