

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: P943595

Luminaire Tested: **GALN-SB8A-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-927-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21877 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

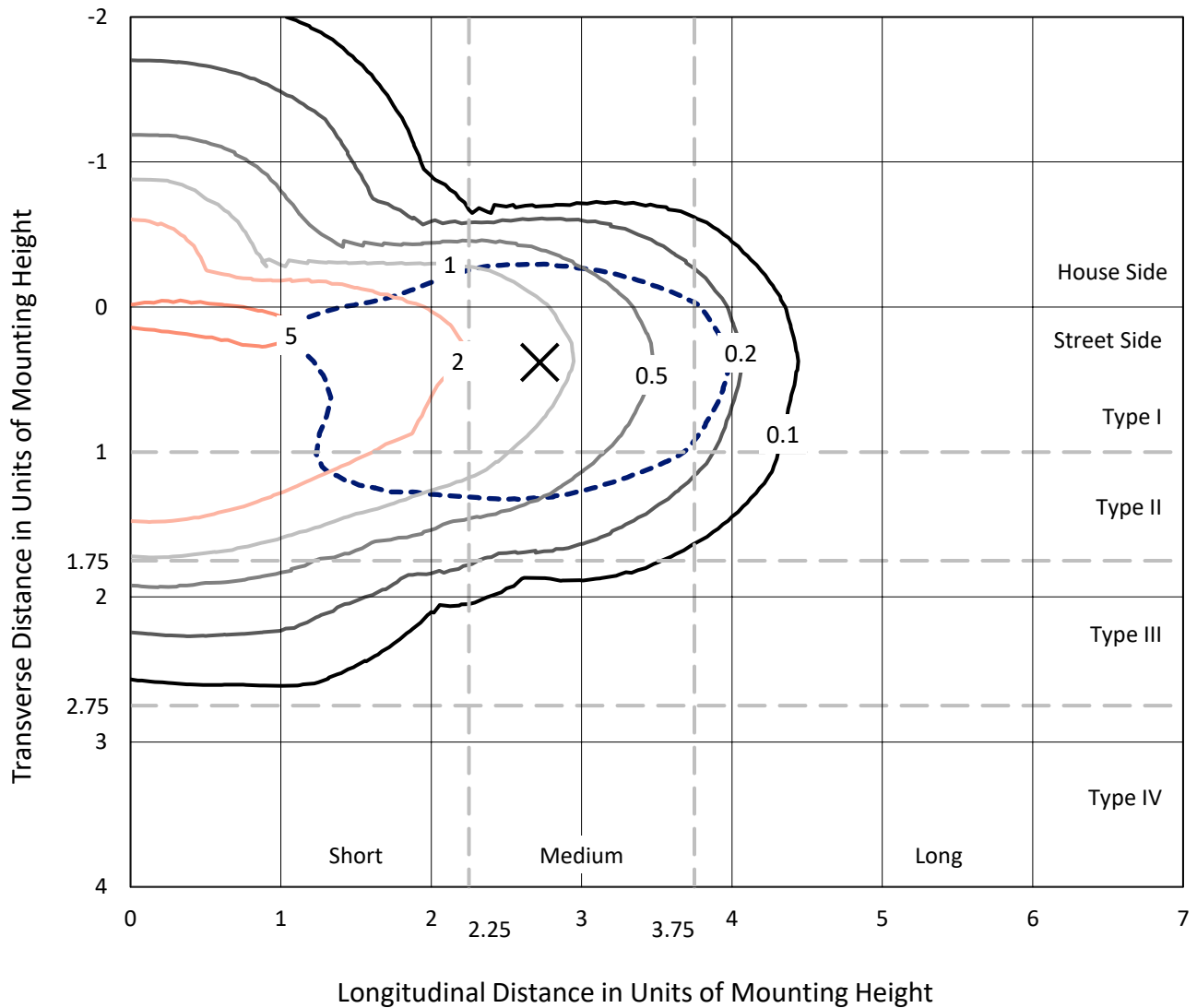
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

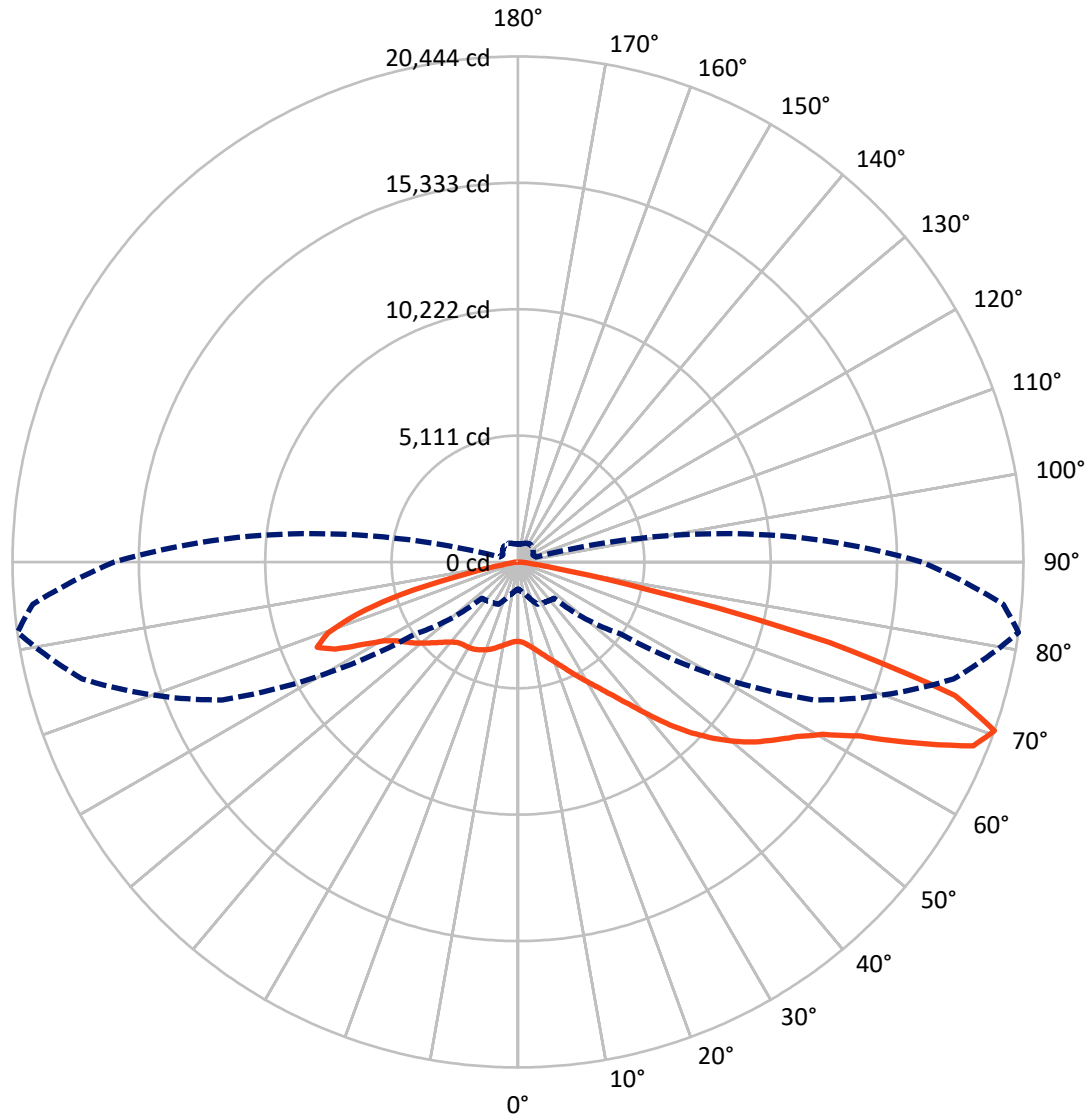
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5393.2	0.0	5393.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	16483.8	0.0	16483.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	21877.0	0.0	21877.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.8	1.4
10°-20°	870.1	4.0
20°-30°	1455.5	6.7
30°-40°	2273.9	10.4
40°-50°	3621.5	16.6
50°-60°	5039.8	23.0
60°-70°	5271.8	24.1
70°-80°	2755.3	12.6
80°-90°	286.1	1.3
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°	21877.0	100.0
0°-180°	21877.0	100.0

**Coefficient of Utilization**



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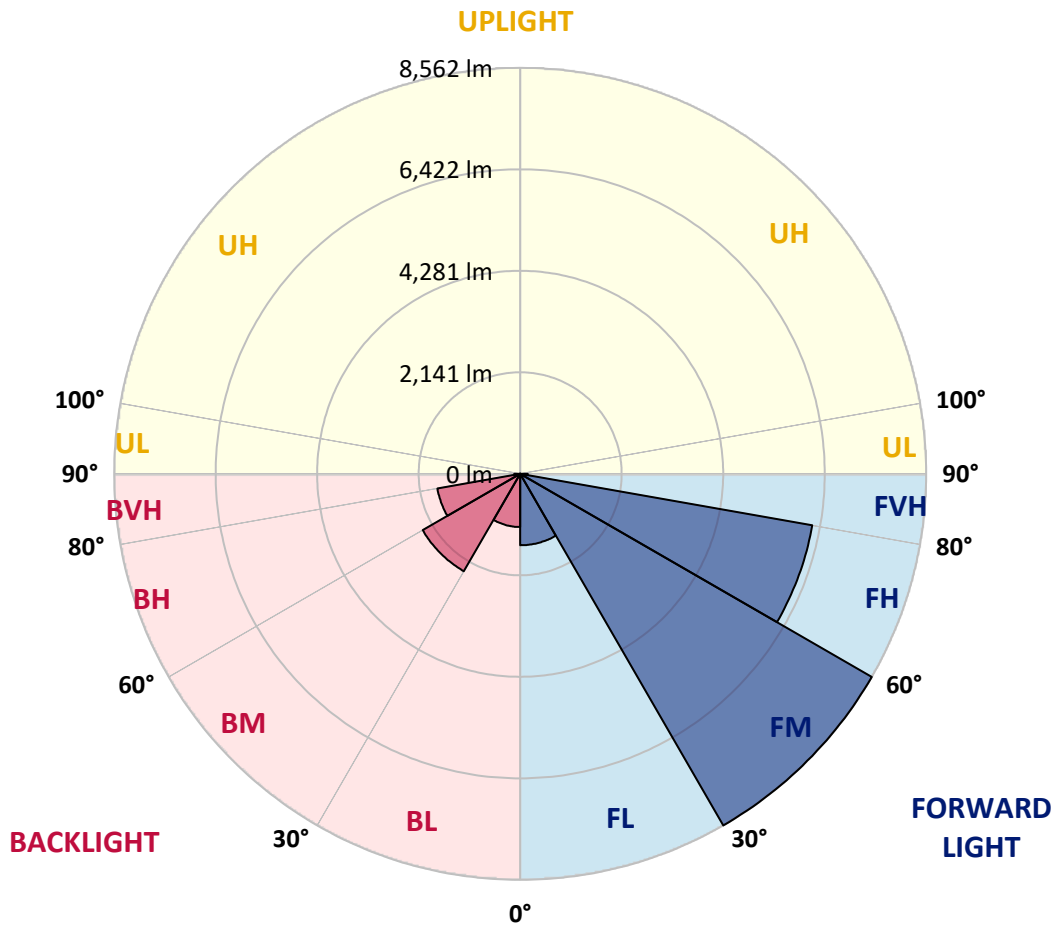
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.5	6.9			
FM (30°-60°)	8562.4	39.1			
FH (60°-80°)	6254.7	28.6			G3/7500
FVH (80°-90°)	160.2	0.7			G2/225
BL (0°-30°)	1122.0	5.1	B3/2500		
BM (30°-60°)	2372.8	10.8	B2/2500		
BH (60°-80°)	1772.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	125.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4
2.5°	3284.1	3302.6	3296.8	3291.0	3291.0	3282.9	3281.7	3270.1	3260.8	3245.7
5°	3325.8	3345.6	3343.3	3347.9	3363.0	3366.5	3370.0	3363.0	3344.4	3325.8
7.5°	3288.7	3310.8	3317.7	3345.6	3392.0	3433.8	3465.2	3477.9	3460.5	3433.8
10°	3163.3	3187.7	3212.1	3278.3	3360.7	3459.3	3542.9	3592.8	3589.4	3563.8
12.5°	2909.1	2934.6	2986.9	3115.7	3266.6	3440.8	3596.3	3700.8	3736.8	3718.2
15°	2706.0	2728.0	2767.5	2899.8	3096.0	3360.7	3616.1	3819.2	3910.9	3900.5
17.5°	2700.1	2709.4	2733.8	2796.5	2947.4	3235.3	3595.2	3935.3	4110.6	4109.4
20°	2802.3	2805.8	2819.7	2832.5	2918.4	3140.1	3541.8	4031.6	4334.6	4334.6
22.5°	2943.9	2941.6	2955.5	2943.9	2985.7	3132.0	3508.1	4116.4	4584.2	4602.8
25°	3156.4	3144.8	3141.3	3114.6	3122.7	3207.4	3545.3	4212.7	4880.2	4918.5
27.5°	3439.6	3421.0	3408.3	3346.7	3325.8	3363.0	3659.0	4328.8	5209.9	5276.1
30°	3808.8	3775.1	3756.5	3649.7	3574.3	3580.1	3830.8	4483.2	5554.7	5661.5
32.5°	4312.6	4260.3	4210.4	4035.1	3897.0	3851.7	4052.5	4696.8	5928.5	6099.1
35°	4876.8	4835.0	4781.6	4511.1	4298.6	4194.2	4352.0	4995.2	6366.1	6636.6
37.5°	5420.0	5384.0	5409.6	5045.1	4771.1	4619.0	4744.4	5395.7	6905.9	7305.3
40°	5981.9	5954.0	5957.5	5609.3	5290.0	5119.4	5220.4	5898.3	7524.7	8100.4
42.5°	6592.5	6571.6	6501.9	6193.2	5834.5	5675.4	5768.3	6478.7	8188.7	9005.9
45°	7276.2	7263.5	7198.5	6844.4	6433.5	6254.7	6380.1	7119.5	8856.2	9858.0
47.5°	7867.1	7877.6	7869.4	7571.1	7145.1	6882.7	7032.5	7788.2	9477.2	10659.0
50°	8151.5	8206.1	8286.2	8193.3	7928.6	7661.6	7690.7	8433.6	10069.3	11410.0
52.5°	8002.9	8106.2	8324.5	8473.1	8575.2	8519.5	8441.7	9074.4	10626.5	12088.0
55°	7449.2	7594.3	7956.5	8315.2	8836.4	9241.6	9343.7	9784.8	11169.7	12684.7
57.5°	6440.4	6676.1	7001.1	7726.6	8604.3	9591.0	10395.5	10770.4	11745.5	13322.0
60°	4710.7	5026.5	5430.5	6510.1	7791.7	9404.1	11290.5	12284.2	12563.9	14147.3
62.5°	3014.7	3209.8	3581.2	4598.1	6071.3	8446.4	11564.4	14176.4	13951.2	15500.9
65°	2064.0	2189.4	2529.5	3100.6	3924.9	6287.2	10830.8	15594.9	16154.5	17646.2
67.5°	1499.8	1595.0	1885.2	2385.6	2557.4	3720.5	8404.6	15529.9	18296.2	19856.4
70°	1093.5	1160.9	1404.6	1885.2	1967.6	2069.8	5091.5	13201.2	18249.8	20443.8
72.5°	810.3	856.7	1020.4	1462.7	1592.7	1397.7	2520.2	9594.5	15682.0	18491.3
75°	586.2	621.1	741.8	1119.1	1274.6	1064.5	1257.2	5606.9	10938.7	13007.4
77.5°	448.1	474.8	553.7	819.6	1020.4	798.7	780.1	2579.4	5186.7	5212.2
80°	359.9	377.3	420.2	576.9	782.4	597.8	508.5	1041.3	1639.1	1387.2
82.5°	264.7	293.7	355.2	405.1	559.5	412.1	309.9	525.9	623.4	536.3
85°	150.9	170.6	214.8	290.2	357.5	251.9	177.6	233.3	290.2	238.0
87.5°	53.4	69.7	75.5	113.8	155.6	104.5	68.5	67.3	95.2	70.8
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°
3207.4	0°	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4	3207.4
3242.3	2.5°	3230.7	3224.9	3201.6	3170.3	3137.8	3106.4	3096.0	3073.9	3058.9	3050.7
3317.7	5°	3295.7	3277.1	3222.5	3152.9	3079.7	3000.8	2945.1	2894.0	2856.9	2822.0
3421.0	7.5°	3388.5	3356.0	3262.0	3140.1	3010.1	2878.9	2781.4	2707.1	2657.2	2624.7
3541.8	10°	3496.5	3446.6	3302.6	3120.4	2919.5	2731.5	2616.6	2552.7	2521.4	2504.0
3679.9	12.5°	3620.7	3549.9	3344.4	3075.1	2781.4	2566.6	2487.7	2469.1	2470.3	2471.5
3854.0	15°	3773.9	3675.3	3378.1	2976.4	2601.5	2440.1	2426.2	2456.4	2487.7	2502.8
4051.4	17.5°	3946.9	3807.6	3383.9	2813.9	2425.0	2358.9	2403.0	2468.0	2515.6	2536.5
4271.9	20°	4132.6	3942.3	3342.1	2584.1	2279.9	2292.7	2371.6	2455.2	2507.4	2534.1
4523.9	22.5°	4345.1	4086.2	3242.3	2342.6	2161.5	2220.7	2313.6	2394.8	2449.4	2476.1
4819.9	25°	4587.7	4247.6	3085.6	2139.5	2059.4	2139.5	2232.3	2299.7	2343.8	2368.1
5150.7	27.5°	4857.0	4415.9	2876.6	1978.1	1970.0	2055.9	2132.5	2184.7	2207.9	2226.5
5502.5	30°	5127.5	4569.1	2623.5	1856.2	1892.2	1973.5	2028.0	2051.2	2058.2	2061.7
5894.8	32.5°	5420.0	4701.5	2357.7	1755.2	1817.9	1893.4	1925.9	1936.3	1903.8	1881.7
6370.8	35°	5774.1	4843.1	2097.7	1675.1	1744.8	1809.8	1820.2	1810.9	1772.6	1727.4
6967.5	37.5°	6211.7	5019.5	1889.9	1618.2	1676.3	1719.2	1706.5	1704.1	1707.6	1654.2
7684.9	40°	6748.0	5249.4	1737.8	1574.1	1620.6	1629.8	1593.9	1613.6	1631.0	1549.7
8471.9	42.5°	7343.6	5526.8	1641.4	1543.9	1574.1	1552.1	1496.3	1518.4	1516.1	1409.3
9262.5	45°	7950.7	5828.7	1607.8	1521.9	1531.2	1487.1	1425.5	1431.3	1382.6	1286.2
10020.5	47.5°	8554.3	6152.5	1628.7	1503.3	1477.8	1427.9	1380.3	1354.7	1282.7	1210.8
10747.2	50°	9146.4	6492.7	1705.3	1466.2	1404.6	1375.6	1340.8	1295.5	1218.9	1157.4
11434.4	52.5°	9695.5	6835.1	1791.2	1404.6	1312.9	1330.3	1308.3	1256.0	1180.6	1117.9
12084.5	55°	10215.5	7177.6	1824.9	1319.9	1227.0	1290.9	1278.1	1181.8	1091.2	1040.1
12764.8	57.5°	10782.0	7589.7	1787.7	1211.9	1157.4	1245.6	1196.8	1090.0	1037.8	999.5
13650.5	60°	11566.8	8236.3	1707.6	1078.4	1091.2	1178.3	1094.7	1050.6	993.7	950.7
14978.5	62.5°	12870.4	9442.4	1578.8	946.1	1013.4	1078.4	1045.9	1001.8	943.8	902.0
17249.1	65°	14797.4	11118.7	1336.1	842.8	926.4	980.9	993.7	949.6	889.2	845.1
19238.8	67.5°	16422.6	12170.4	1011.1	756.9	837.0	902.0	938.0	895.0	831.2	788.2
19704.3	70°	16333.2	11406.6	772.0	672.1	758.0	824.2	870.6	837.0	768.5	727.9
17898.1	72.5°	14507.2	9542.2	624.5	586.2	677.9	742.9	798.7	773.1	703.5	664.0
13111.9	75°	10657.8	6773.6	499.2	499.2	578.1	658.2	719.7	703.5	639.6	611.8
5504.8	77.5°	4492.5	2841.8	391.2	414.4	480.6	565.3	642.0	647.8	592.0	626.9
1455.7	80°	1194.5	783.6	298.3	326.2	377.3	466.7	558.4	556.0	495.7	463.2
541.0	82.5°	455.1	308.8	212.4	229.8	272.8	357.5	442.3	456.2	395.9	342.5
212.4	85°	175.3	132.3	131.2	138.1	159.0	236.8	334.3	345.9	298.3	253.1
59.2	87.5°	45.3	39.5	48.8	46.4	73.1	126.5	191.5	198.5	182.3	105.6
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>
3207.4
3060.0
2836.0
2631.7
2508.6
2473.8
2501.6
2541.1
2541.1
2483.1
2375.1
2233.5
2069.8
1888.7
1729.7
1657.7
1552.1
1408.1
1289.7
1210.8
1152.7
1119.1
1035.5
996.0
948.4
902.0
847.4
789.4
731.3
664.0
603.6
568.8
430.7
342.5
261.2
150.9
0.0

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