

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: P948586

Luminaire Tested: **GALN-SB3C-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3C-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

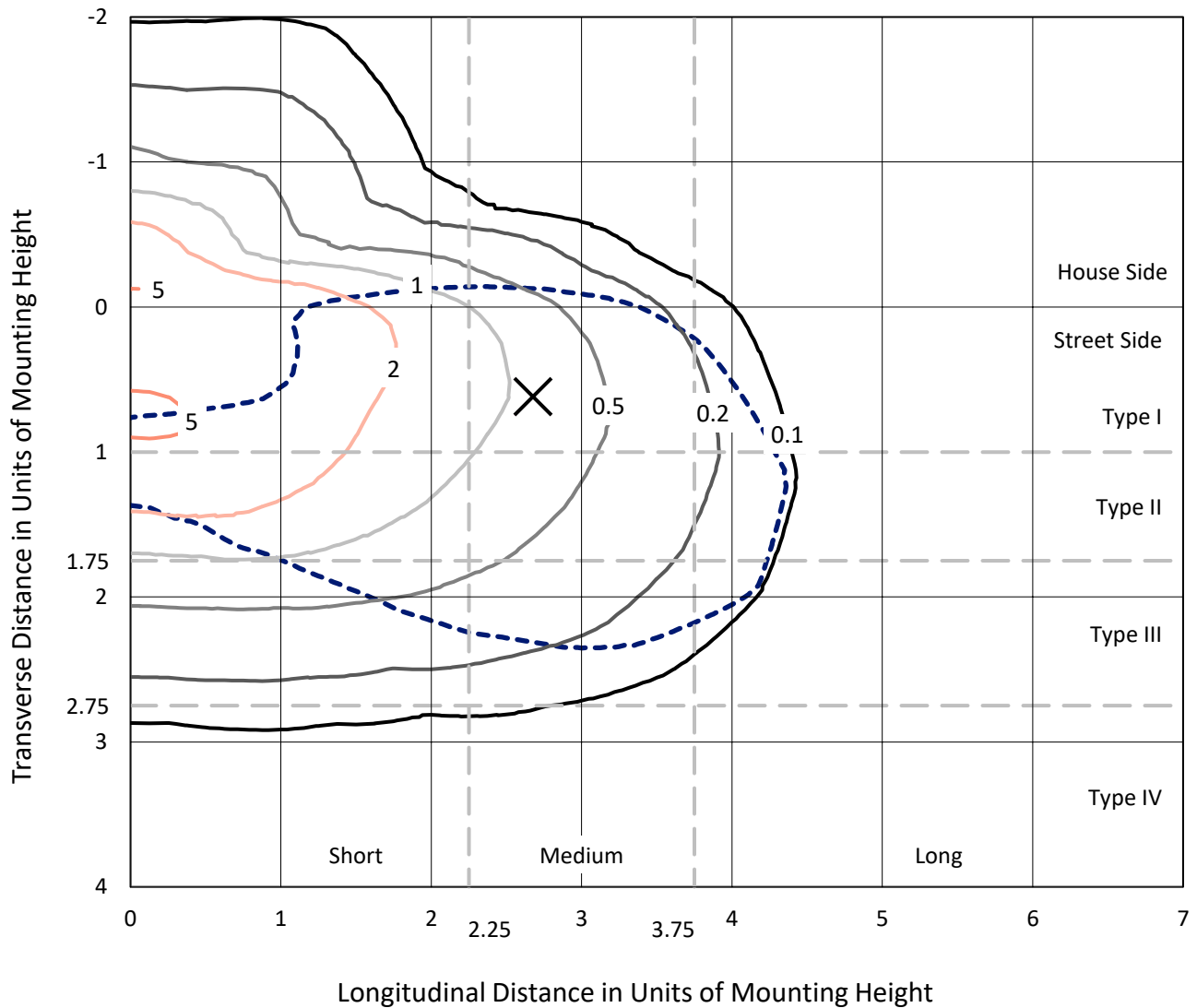
Lumens per Lamp: N/A  
Luminaire Lumens: 20727 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

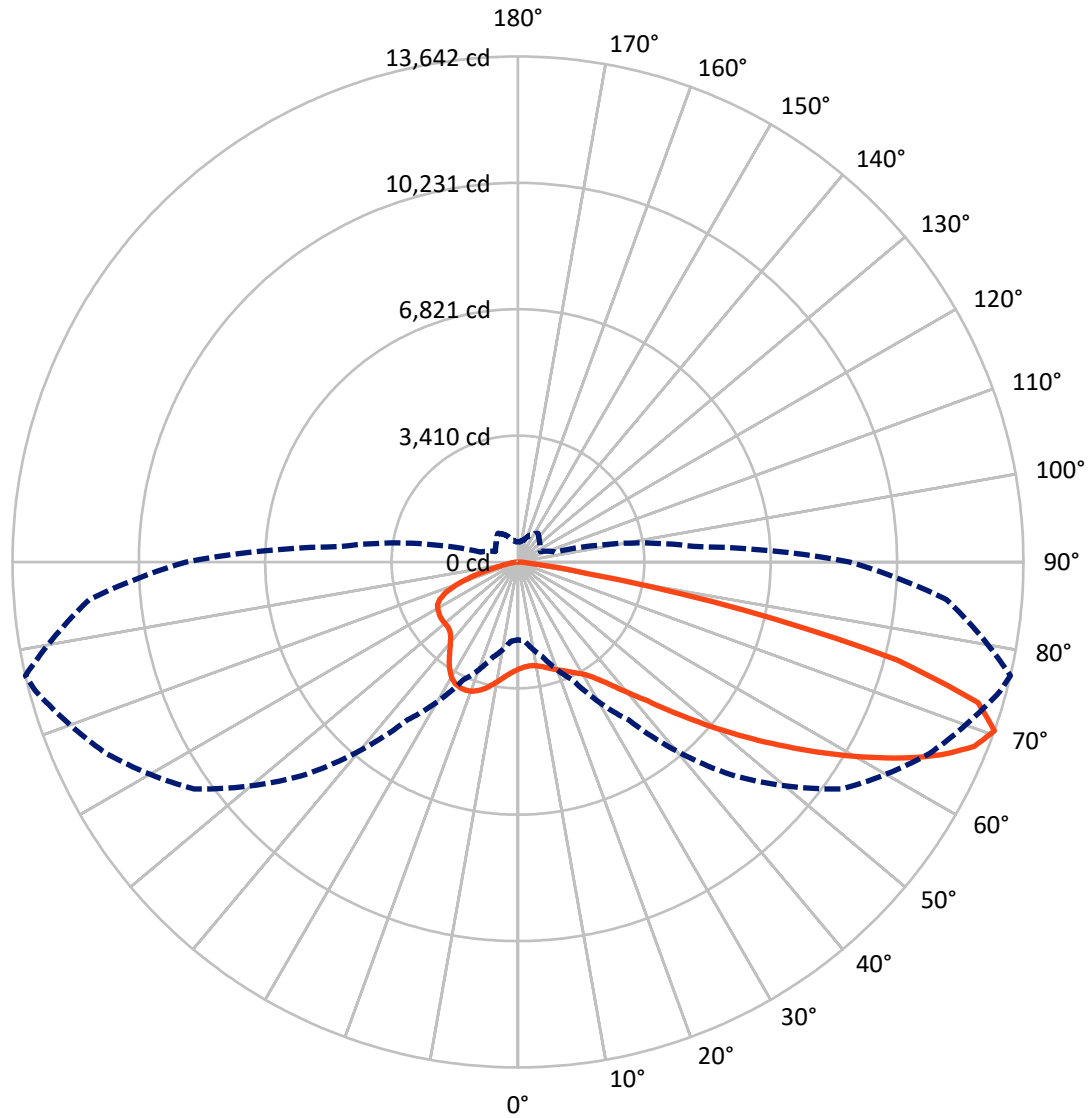
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	4538.9	0.0	4538.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	16188.1	0.0	16188.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	20727.0	0.0	20727.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.8	1.3
10°-20°	795.9	3.8
20°-30°	1361.2	6.6
30°-40°	2188.9	10.6
40°-50°	3417.4	16.5
50°-60°	4564.8	22.0
60°-70°	4865.4	23.5
70°-80°	2995.1	14.5
80°-90°	262.5	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°	20727.0	100.0
0°-180°	20727.0	100.0



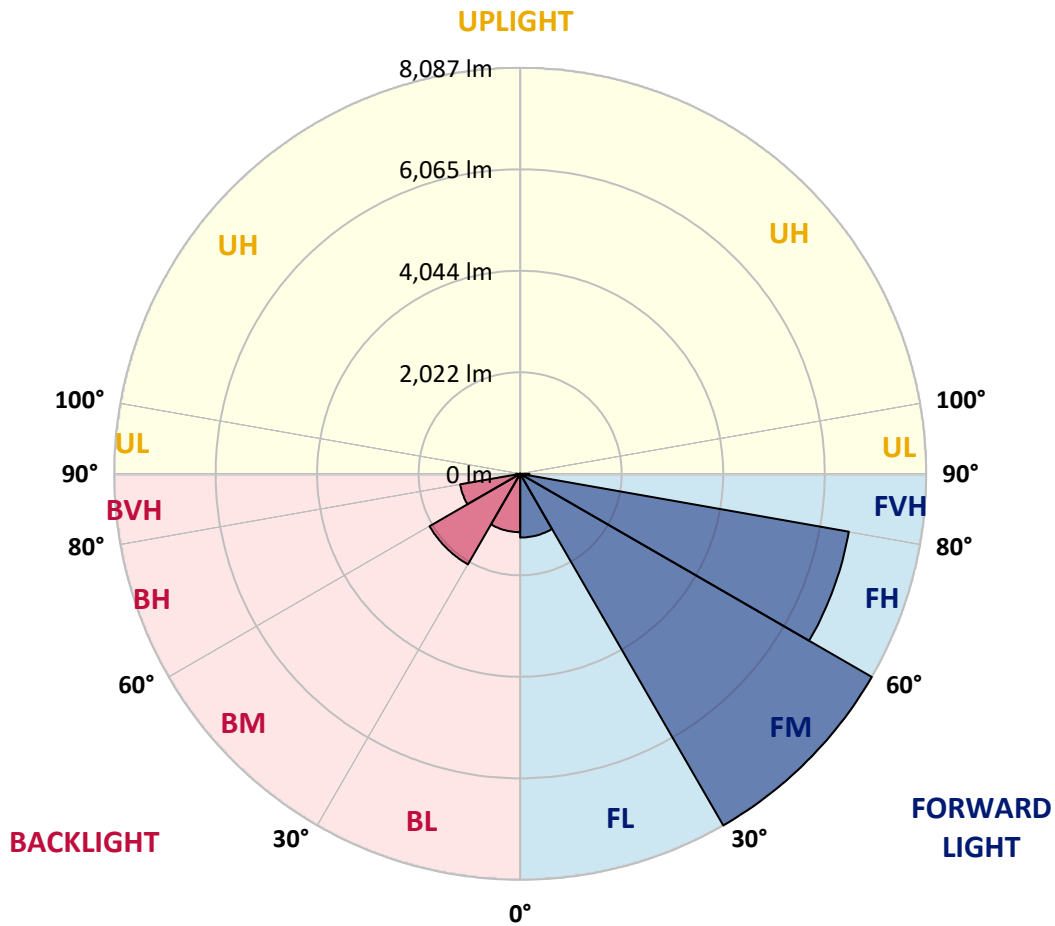
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.9	6.1			
FM (30°-60°)	8087.2	39.0			
FH (60°-80°)	6647.5	32.1			G3/7500
FVH (80°-90°)	183.5	0.9			G2/225
BL (0°-30°)	1163.0	5.6	B3/2500		
BM (30°-60°)	2083.9	10.1	B2/2500		
BH (60°-80°)	1213.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	78.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6
2.5°	2665.5	2664.4	2678.2	2682.5	2708.0	2726.0	2760.0	2796.1	2842.8	2848.1
5°	2511.6	2511.6	2527.5	2544.5	2577.4	2613.5	2665.5	2728.1	2808.8	2821.5
7.5°	2381.0	2389.5	2403.3	2436.2	2474.4	2526.4	2606.1	2695.2	2801.4	2821.5
10°	2275.9	2285.5	2302.5	2329.0	2386.3	2458.5	2562.5	2677.2	2819.4	2851.3
12.5°	2243.0	2252.6	2262.1	2282.3	2335.4	2420.3	2544.5	2685.7	2862.9	2894.8
15°	2319.4	2331.1	2323.7	2318.4	2346.0	2423.5	2553.0	2716.5	2917.1	2962.7
17.5°	2495.7	2499.9	2482.9	2433.0	2428.8	2470.2	2593.3	2758.9	2985.0	3034.9
20°	2780.1	2772.7	2737.7	2639.0	2582.7	2574.2	2662.3	2822.6	3055.1	3108.2
22.5°	3166.5	3158.0	3088.0	2931.9	2806.7	2723.9	2762.1	2905.4	3133.6	3193.1
25°	3648.5	3636.8	3533.8	3321.5	3127.3	2922.4	2898.0	3014.7	3230.2	3285.4
27.5°	4211.1	4201.5	4090.1	3809.8	3529.6	3194.1	3066.8	3143.2	3331.1	3393.7
30°	4816.2	4843.8	4646.3	4344.8	3990.3	3548.7	3293.9	3301.4	3461.6	3517.9
32.5°	5527.4	5575.2	5337.4	4955.2	4471.2	3934.0	3580.5	3522.2	3651.7	3698.4
35°	6232.2	6286.4	6088.9	5666.4	5109.1	4388.4	3879.9	3775.9	3904.3	3955.3
37.5°	6841.6	6913.7	6811.8	6444.5	5791.7	4936.1	4270.5	4074.1	4215.3	4279.0
40°	7322.4	7432.8	7425.4	7196.1	6596.3	5600.6	4766.3	4442.5	4601.7	4670.7
42.5°	7713.1	7808.6	7891.4	7879.7	7436.0	6355.4	5349.0	4921.2	5042.3	5121.9
45°	7982.7	8084.6	8262.9	8455.1	8243.8	7163.2	6016.7	5489.2	5599.6	5719.5
47.5°	8223.7	8339.4	8570.8	8875.4	8929.6	7974.2	6748.1	6150.5	6251.3	6375.5
50°	8244.9	8344.7	8703.5	9135.5	9416.8	8753.4	7533.7	6892.5	6987.0	7119.7
52.5°	7732.2	7889.3	8515.6	9128.1	9640.8	9405.1	8313.9	7664.2	7770.4	7929.6
55°	6001.9	6232.2	7964.7	8843.6	9561.2	9826.6	9055.9	8484.8	8620.7	8787.3
57.5°	5169.6	5270.5	6322.5	8325.6	9198.2	9935.9	9682.2	9313.9	9532.5	9715.1
60°	4646.3	4730.2	5352.2	7519.9	8720.5	9762.9	10166.3	10086.7	10464.6	10682.2
62.5°	4085.8	4165.4	4731.2	6278.9	8109.0	9475.2	10472.0	10800.0	11419.9	11657.7
65°	3529.6	3597.5	4140.0	5275.8	7332.0	9187.5	10630.2	11416.7	12304.2	12550.5
67.5°	2909.7	2965.9	3478.6	4451.0	6387.2	8793.7	10708.7	11901.9	13073.8	13285.0
70°	2099.7	2143.2	2672.9	3520.0	5201.5	8116.5	10676.9	12245.8	13472.9	13641.7
72.5°	992.5	1031.8	1653.9	2285.5	3674.0	6798.0	10032.5	11973.0	13067.4	12983.6
75°	529.7	563.7	950.1	1253.7	1940.5	4660.1	8209.9	10313.8	10973.0	10565.4
77.5°	358.8	385.3	588.1	752.6	886.4	2212.2	5276.9	7140.9	6870.2	6197.2
80°	284.5	312.1	481.9	509.5	428.9	799.3	2180.4	3305.6	2374.6	1899.1
82.5°	218.7	249.5	405.5	369.4	233.5	328.0	634.8	1045.6	608.3	462.8
85°	133.8	166.7	318.5	235.7	131.6	149.7	215.5	290.9	185.8	155.0
87.5°	67.9	95.5	161.4	86.0	59.4	35.0	57.3	57.3	48.8	42.5
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°
2891.6	0°	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6	2891.6
2876.7	2.5°	2902.2	2923.5	2959.5	2993.5	3020.1	3045.5	3071.0	3084.8	3089.1	3106.0
2892.7	5°	2936.2	2975.5	3045.5	3111.3	3152.7	3178.2	3196.3	3206.9	3209.0	3214.3
2936.2	7.5°	2998.8	3061.5	3159.1	3224.9	3255.7	3253.6	3246.2	3219.6	3209.0	3199.4
2999.9	10°	3086.9	3169.7	3289.7	3335.3	3316.2	3265.3	3199.4	3122.0	3085.9	3050.8
3086.9	12.5°	3196.3	3301.4	3419.2	3417.1	3322.6	3192.0	3039.2	2920.3	2844.9	2790.8
3194.1	15°	3329.0	3450.0	3540.2	3468.0	3261.0	3026.4	2802.4	2647.5	2579.5	2520.1
3302.4	17.5°	3465.9	3595.4	3636.8	3452.1	3106.0	2781.2	2527.5	2405.4	2338.5	2306.7
3419.2	20°	3599.6	3728.1	3694.1	3360.8	2870.4	2503.1	2277.0	2210.1	2196.3	2203.7
3532.8	22.5°	3740.8	3855.5	3705.8	3184.6	2570.0	2218.6	2094.4	2096.5	2127.3	2149.6
3651.7	25°	3885.2	3962.7	3675.0	2929.8	2247.3	2009.5	1978.7	2012.7	2073.2	2116.7
3785.4	27.5°	4024.3	4058.2	3608.1	2614.5	1970.2	1859.8	1865.1	1935.2	2026.5	2087.0
3947.8	30°	4181.4	4143.1	3479.7	2260.0	1778.1	1731.4	1775.9	1857.7	1949.0	2003.1
4152.7	32.5°	4358.6	4216.4	3275.9	1932.0	1642.2	1628.4	1701.6	1754.7	1795.0	1811.0
4424.5	35°	4579.4	4319.4	3014.7	1701.6	1520.1	1553.0	1623.1	1596.5	1580.6	1572.1
4789.6	37.5°	4866.0	4458.4	2709.0	1552.0	1421.4	1498.9	1527.5	1444.7	1382.1	1351.3
5232.3	40°	5211.0	4662.2	2415.0	1436.2	1358.8	1452.2	1402.3	1302.5	1222.9	1179.4
5730.1	42.5°	5594.3	4875.6	2167.6	1349.2	1323.7	1414.0	1309.9	1191.0	1062.6	1048.8
6323.5	45°	5996.6	5095.3	1998.9	1282.3	1306.7	1381.0	1256.9	1064.7	973.4	1029.7
6919.0	47.5°	6398.9	5297.0	1897.0	1232.4	1298.3	1343.9	1210.1	994.7	929.9	1011.6
7557.0	50°	6846.9	5477.5	1851.3	1196.3	1288.7	1329.0	1140.1	976.6	884.3	938.4
8217.3	52.5°	7291.6	5617.6	1817.3	1160.3	1274.9	1317.4	1106.1	955.4	829.1	832.2
8881.8	55°	7735.4	5708.9	1780.2	1112.5	1244.1	1291.9	1102.9	932.0	787.7	772.8
9584.5	57.5°	8208.8	5760.9	1734.5	1059.4	1191.0	1227.1	1099.7	914.0	774.9	750.5
10303.2	60°	8690.7	5837.3	1675.1	994.7	1119.9	1149.6	1092.3	907.6	767.5	726.1
10980.5	62.5°	9122.8	5863.9	1604.0	933.1	1028.6	1073.2	1076.4	902.3	747.3	676.2
11543.1	65°	9406.2	5749.2	1479.8	863.0	929.9	994.7	1045.6	884.3	711.2	640.1
11821.2	67.5°	9394.5	5422.3	1285.5	772.8	834.4	907.6	1001.0	853.5	667.7	595.5
11611.0	70°	8957.2	4776.9	1039.2	667.7	729.3	814.2	943.7	807.8	615.7	546.7
10324.4	72.5°	7682.3	3738.7	754.7	544.6	607.2	717.6	869.4	752.6	562.6	503.2
7630.3	75°	5488.1	2366.1	511.7	418.2	472.4	608.3	777.0	687.9	513.8	505.3
3821.5	77.5°	2803.5	1130.5	338.6	305.7	329.1	479.8	652.8	614.6	521.2	417.2
1087.0	80°	911.9	417.2	213.4	208.1	218.7	319.5	505.3	504.2	394.9	283.4
263.3	82.5°	290.9	179.4	139.1	133.8	128.4	200.6	352.4	399.1	266.4	179.4
94.5	85°	115.7	107.2	81.7	75.4	54.1	94.5	184.7	265.4	198.5	129.5
24.4	87.5°	42.5	42.5	22.3	15.9	11.7	31.8	49.9	79.6	113.6	66.9
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>
2891.6
3115.6
3222.8
3201.6
3040.2
2778.0
2513.7
2316.3
2200.6
2154.9
2128.4
2101.8
2015.8
1819.5
1580.6
1358.8
1182.5
1062.6
1059.4
1049.9
978.7
854.5
783.4
753.7
729.3
676.2
640.1
598.7
553.1
500.0
476.6
371.5
250.5
178.3
132.7
65.8
0.0

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