

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: P947125

Luminaire Tested: **GALN-SB2C-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2C-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

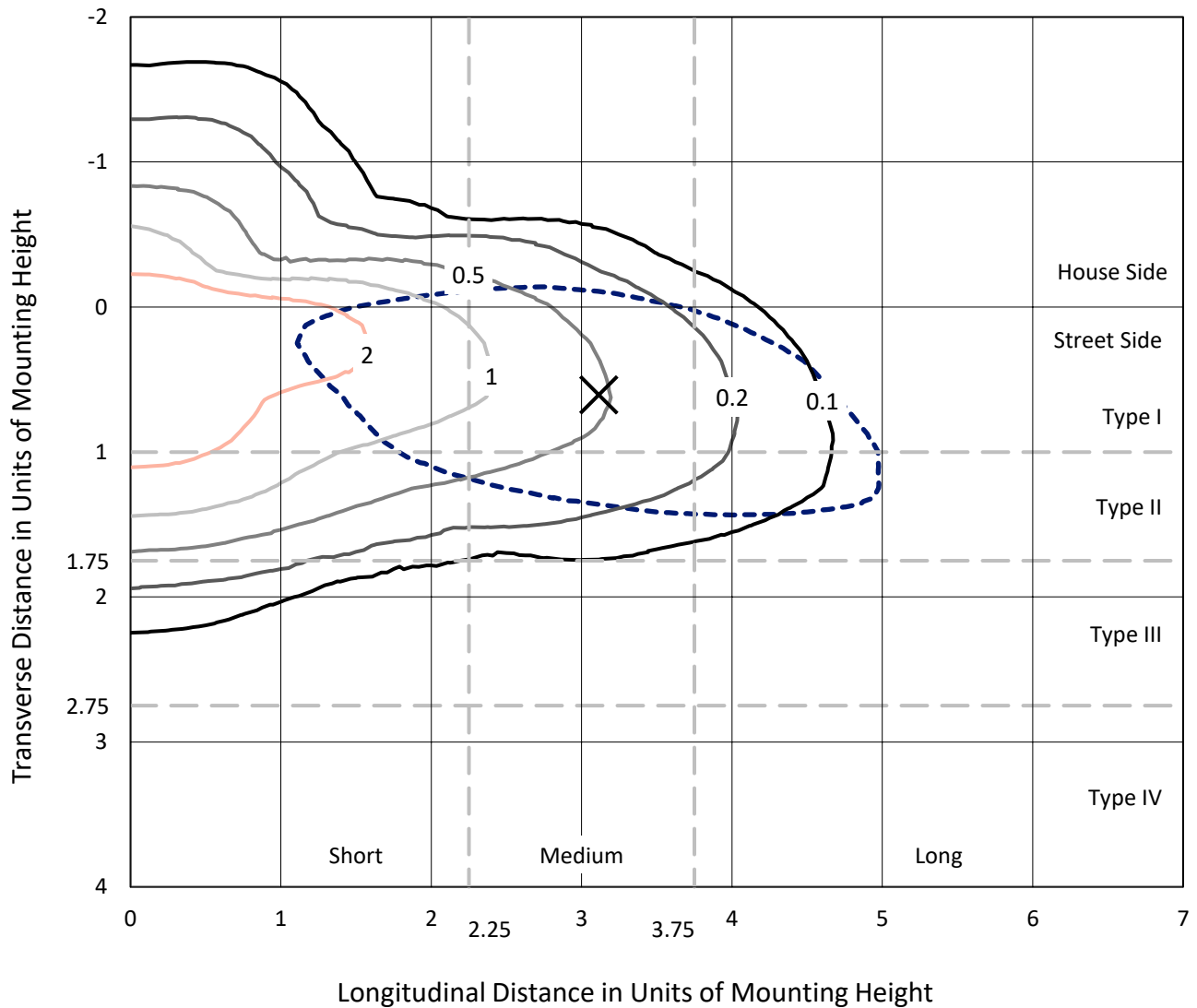
Lumens per Lamp: N/A  
Luminaire Lumens: 12945 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

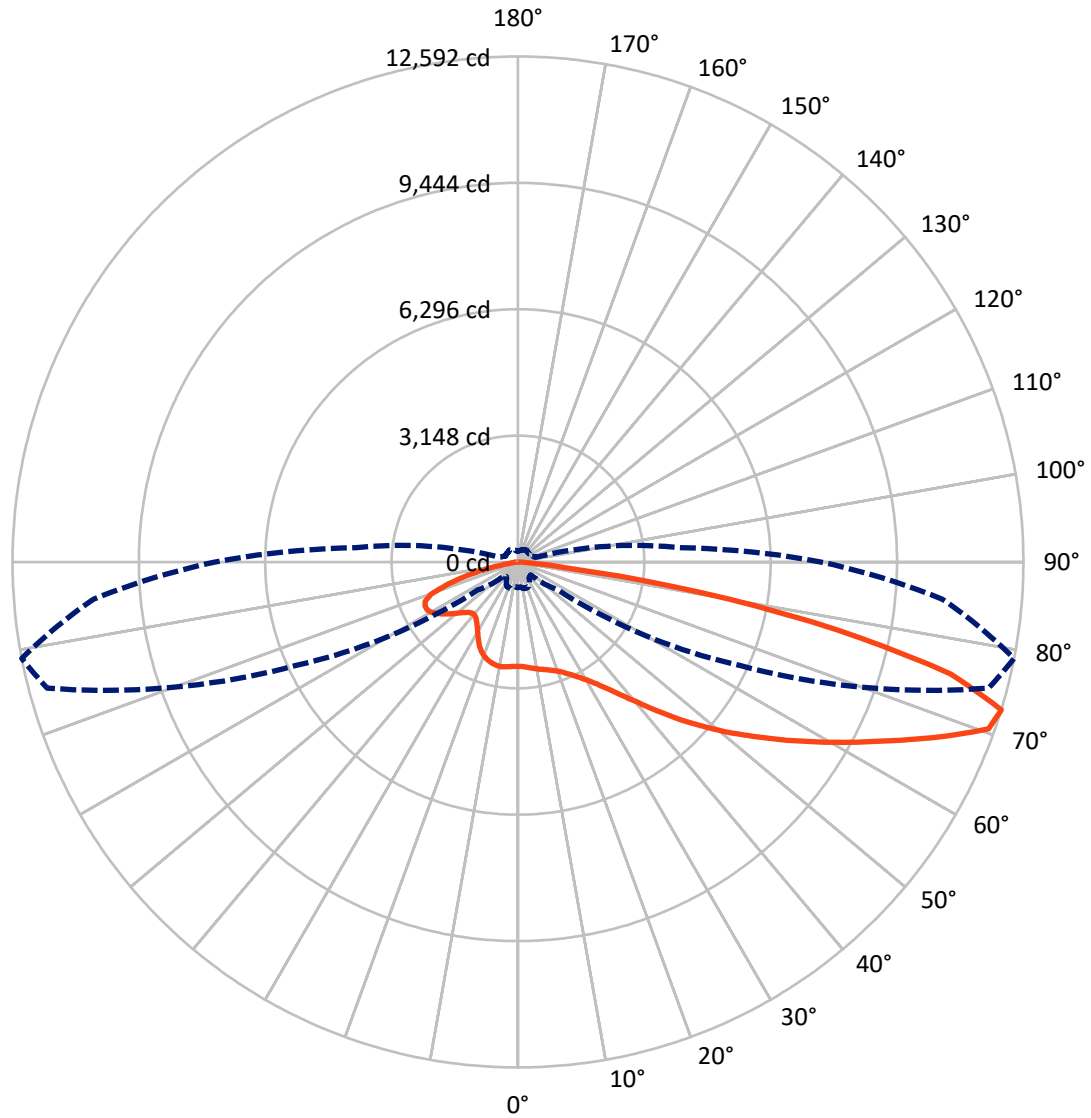
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2848.6	0.0	2848.6
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	10096.4	0.0	10096.4
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	12945.0	0.0	12945.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.9	1.8
10°-20°	616.7	4.8
20°-30°	995.1	7.7
30°-40°	1493.5	11.5
40°-50°	2118.6	16.4
50°-60°	2675.5	20.7
60°-70°	2717.4	21.0
70°-80°	1852.0	14.3
80°-90°	240.3	1.9
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°	12945.0	100.0
0°-180°	12945.0	100.0

**Coefficient of Utilization**



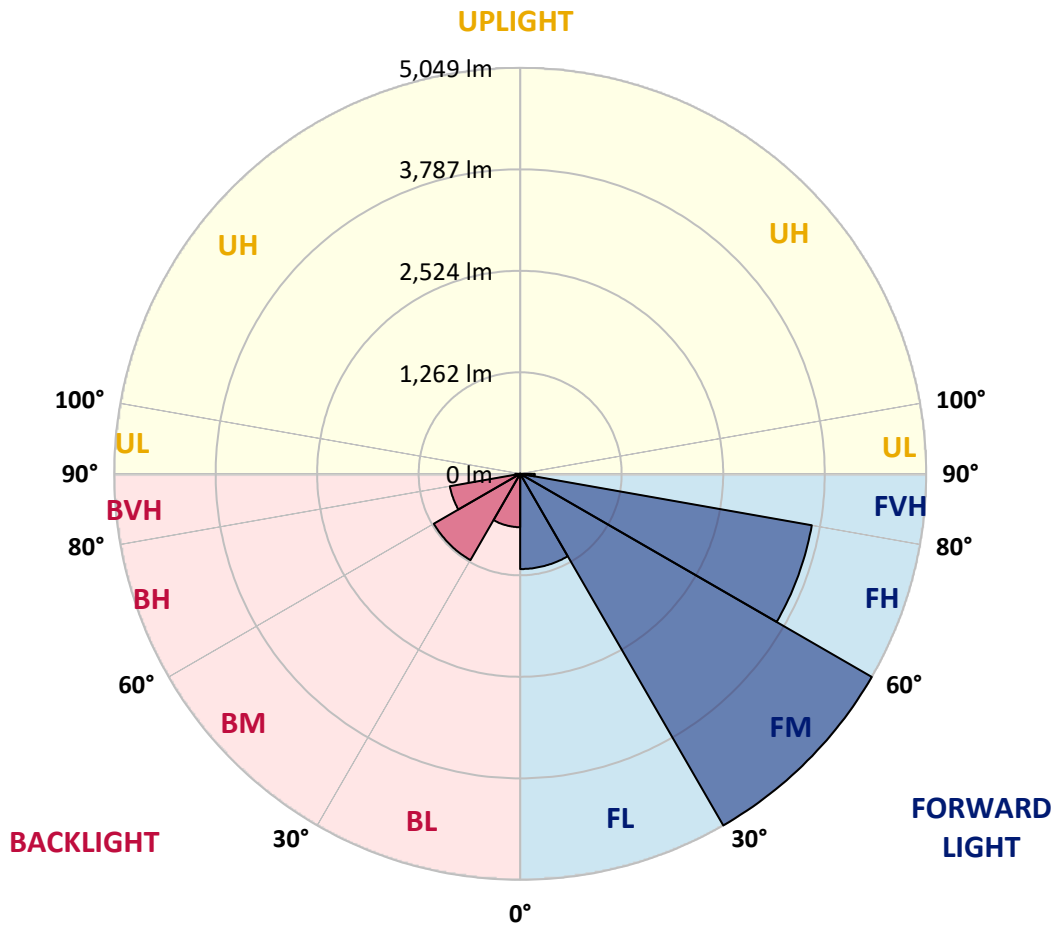
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.2	9.1			
FM (30°-60°)	5048.8	39.0			
FH (60°-80°)	3682.4	28.4			G2/5000
FVH (80°-90°)	181.0	1.4			G2/225
BL (0°-30°)	663.5	5.1	B2/1000		
BM (30°-60°)	1238.9	9.6	B2/2500		
BH (60°-80°)	887.0	6.9	B2/1000		G2/1000
BVH (80°-90°)	59.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6
2.5°	2600.0	2587.6	2595.2	2592.4	2595.8	2600.0	2601.3	2603.4	2610.2	2609.5
5°	2594.5	2582.2	2592.4	2589.0	2597.9	2607.5	2615.7	2623.2	2634.2	2639.0
7.5°	2582.8	2574.6	2584.9	2595.2	2611.6	2626.0	2637.6	2654.7	2670.5	2673.2
10°	2515.0	2508.9	2532.9	2559.6	2604.7	2643.8	2669.1	2689.0	2706.1	2708.8
12.5°	2444.5	2437.0	2463.7	2500.0	2573.3	2643.8	2697.2	2723.2	2738.3	2747.2
15°	2432.9	2426.7	2441.8	2473.3	2534.2	2625.3	2716.4	2764.3	2777.3	2787.6
17.5°	2489.0	2477.4	2483.5	2494.5	2530.1	2608.2	2731.4	2810.9	2830.7	2841.7
20°	2619.1	2602.7	2593.1	2571.2	2565.0	2610.9	2730.1	2867.0	2893.0	2906.7
22.5°	2792.4	2781.4	2760.9	2705.4	2645.1	2644.5	2756.1	2938.9	2987.5	3000.5
25°	3001.9	2985.5	2959.4	2884.1	2768.4	2710.9	2799.9	3030.7	3112.1	3115.6
27.5°	3242.9	3218.3	3182.7	3083.4	2927.3	2815.0	2867.0	3136.1	3255.3	3253.9
30°	3497.0	3472.3	3434.7	3314.1	3117.6	2955.3	2960.1	3249.8	3425.1	3417.5
32.5°	3682.5	3664.0	3656.5	3563.4	3336.7	3121.0	3066.9	3375.8	3634.6	3627.7
35°	3825.0	3801.0	3809.9	3762.6	3575.7	3306.6	3197.7	3525.7	3889.3	3888.6
37.5°	3966.0	3944.8	3952.3	3920.8	3796.9	3542.2	3357.3	3709.2	4205.0	4220.0
40°	4094.7	4072.1	4102.3	4072.8	3968.7	3792.8	3538.7	3916.7	4570.6	4599.4
42.5°	4172.1	4154.3	4204.3	4205.0	4118.0	4004.4	3738.0	4145.4	4993.8	5058.2
45°	4198.8	4192.7	4268.0	4283.7	4250.2	4126.9	3917.4	4394.7	5449.8	5564.9
47.5°	4170.1	4158.4	4262.5	4320.7	4347.4	4184.4	4066.0	4664.4	5915.5	6083.9
50°	4024.9	4002.3	4157.1	4279.6	4374.8	4222.1	4215.9	4976.0	6444.8	6629.0
52.5°	3764.0	3746.9	3922.9	4135.8	4314.5	4240.6	4384.4	5316.3	6947.4	7185.7
55°	3430.5	3407.9	3601.7	3879.7	4164.6	4234.4	4552.8	5697.0	7540.3	7782.1
57.5°	2901.9	2856.7	3101.9	3430.5	3920.1	4226.9	4728.1	6075.7	8142.9	8432.6
60°	2130.9	2063.8	2364.4	2754.0	3442.2	4153.6	4945.2	6500.2	8866.0	9126.9
62.5°	1240.7	1201.7	1398.2	1761.8	2594.5	3722.2	5067.1	6993.9	9576.8	9850.7
65°	963.4	952.5	969.6	997.7	1444.1	2786.9	4691.1	7475.3	10480.6	10672.3
67.5°	881.3	873.0	880.6	827.8	732.7	1552.3	3711.3	7597.2	11448.8	11565.2
70°	783.3	773.8	798.4	753.2	576.6	706.0	2398.0	7154.8	12219.2	12437.6
72.5°	638.2	627.2	684.7	664.2	485.5	453.3	1204.5	6103.8	12138.4	12591.7
75°	490.3	484.1	552.6	569.7	395.8	356.7	577.9	4537.1	10681.9	11138.7
77.5°	380.7	375.9	410.8	473.2	319.1	276.6	355.4	2878.0	8049.8	8129.9
80°	285.5	271.8	304.0	366.3	248.6	202.0	241.0	1678.3	5088.3	4612.4
82.5°	178.7	171.9	198.6	244.5	175.3	139.0	156.8	927.1	2039.2	1201.0
85°	102.0	99.3	108.2	139.7	95.2	80.1	89.7	409.5	372.5	256.1
87.5°	41.1	39.7	49.3	62.3	34.9	29.4	31.5	98.6	82.2	76.0
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°
2598.6	0°	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6
2608.9	2.5°	2606.1	2606.1	2596.5	2581.5	2564.3	2553.4	2535.6	2530.8	2512.3	2506.8
2632.1	5°	2637.6	2632.1	2602.7	2560.2	2502.0	2448.6	2389.7	2352.8	2300.7	2282.2
2678.0	7.5°	2677.3	2662.3	2611.6	2518.5	2396.6	2276.8	2152.1	2057.6	1967.3	1935.1
2715.7	10°	2713.6	2692.4	2606.1	2443.1	2232.3	2024.8	1826.2	1687.2	1581.7	1538.6
2757.4	12.5°	2749.9	2710.9	2569.8	2317.8	1998.8	1717.3	1505.7	1397.6	1332.5	1280.5
2791.7	15°	2784.2	2729.4	2513.7	2150.1	1742.7	1457.1	1301.0	1214.7	1162.7	1128.5
2841.7	17.5°	2823.9	2745.1	2429.5	1937.1	1498.9	1277.0	1149.7	1097.6	1087.4	1083.3
2910.1	20°	2879.3	2759.5	2318.5	1698.8	1319.5	1133.2	1067.5	1062.7	1062.0	1060.0
2992.3	22.5°	2938.9	2776.6	2172.0	1482.5	1166.8	1043.5	1031.9	1022.3	1016.2	1015.5
3091.6	25°	3009.4	2782.1	1988.5	1305.1	1036.7	1001.1	987.4	973.0	968.9	968.9
3204.6	27.5°	3077.9	2763.6	1774.8	1151.0	963.4	962.1	944.3	939.5	938.8	940.8
3333.3	30°	3146.4	2728.7	1562.6	1008.6	921.0	921.0	914.8	918.2	921.0	927.8
3510.0	32.5°	3238.8	2691.7	1385.2	903.2	884.0	877.2	883.3	890.2	892.9	901.8
3742.1	35°	3374.4	2665.7	1244.2	845.7	845.7	836.8	840.2	838.8	832.6	828.5
4022.8	37.5°	3553.8	2664.3	1127.8	818.9	813.5	812.1	812.8	803.9	779.9	751.2
4362.5	40°	3769.5	2701.3	1038.1	800.5	796.4	804.6	800.5	776.5	710.8	660.8
4780.2	42.5°	4059.1	2806.7	980.5	777.9	790.2	800.5	784.0	701.2	656.7	623.1
5256.1	45°	4400.1	2977.9	951.1	753.9	778.5	790.9	711.4	675.2	639.5	599.1
5775.1	47.5°	4786.3	3193.6	944.3	731.3	752.5	760.1	680.6	664.2	623.8	580.0
6296.9	50°	5206.8	3449.0	962.7	704.6	714.9	688.8	670.4	655.3	613.5	570.4
6831.6	52.5°	5641.6	3730.5	999.7	668.3	677.2	648.4	666.3	653.2	607.4	549.2
7384.2	55°	6068.8	4013.9	1035.3	625.9	638.9	612.2	654.6	645.0	579.3	513.6
7973.8	57.5°	6503.0	4296.1	1070.2	588.2	601.9	577.2	636.1	623.1	547.8	480.7
8617.4	60°	6954.2	4570.0	1086.7	551.9	561.5	545.1	608.0	585.5	512.2	447.1
9250.1	62.5°	7376.7	4798.0	1060.0	515.6	521.8	514.9	571.1	540.9	476.6	409.5
9909.5	65°	7800.6	4933.5	977.8	480.0	481.4	477.9	519.0	493.0	434.8	376.6
10486.8	67.5°	8184.7	5009.6	847.0	441.7	438.2	436.9	470.4	441.0	394.4	343.7
10925.7	70°	8266.2	4816.5	647.1	396.5	396.5	393.0	417.0	386.9	349.9	308.8
10611.4	72.5°	7549.9	4051.6	459.5	345.1	350.6	343.7	363.6	338.3	304.7	277.3
9145.4	75°	6088.0	2971.1	334.2	292.4	302.0	290.3	308.8	291.0	262.3	261.6
6302.3	77.5°	4183.1	1837.2	242.4	241.0	247.9	232.8	254.0	244.5	218.4	206.8
2743.1	80°	1785.1	732.7	176.7	186.2	186.2	172.6	197.2	199.9	177.3	171.9
529.3	82.5°	355.4	208.2	123.9	128.0	120.5	116.4	139.7	154.8	213.6	237.6
159.5	85°	106.8	76.7	74.6	69.8	61.6	62.3	82.2	155.4	191.7	109.6
52.7	87.5°	29.4	19.2	19.9	15.7	13.0	17.1	28.1	117.8	64.4	27.4
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>
2598.6
2515.7
2295.9
1939.2
1548.2
1297.6
1134.6
1086.0
1066.8
1023.0
973.0
946.3
932.6
909.3
838.1
751.8
659.4
621.7
596.4
576.6
565.6
545.1
510.1
479.3
445.1
408.8
372.5
339.6
307.4
269.1
235.6
193.8
171.9
238.3
94.5
23.3
0.0

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