

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: P941507

Luminaire Tested: **GALN-SB5A-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19717 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

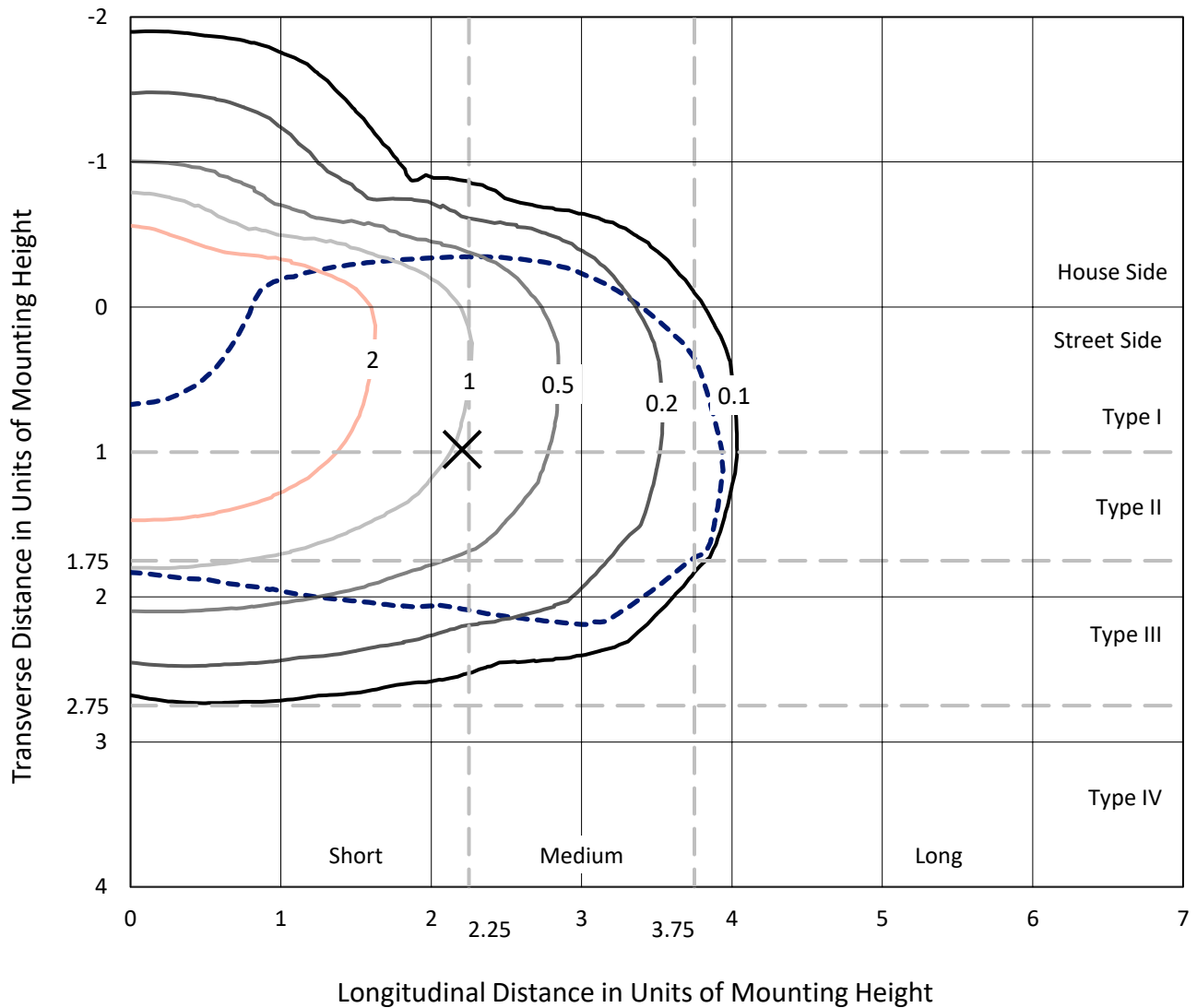
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

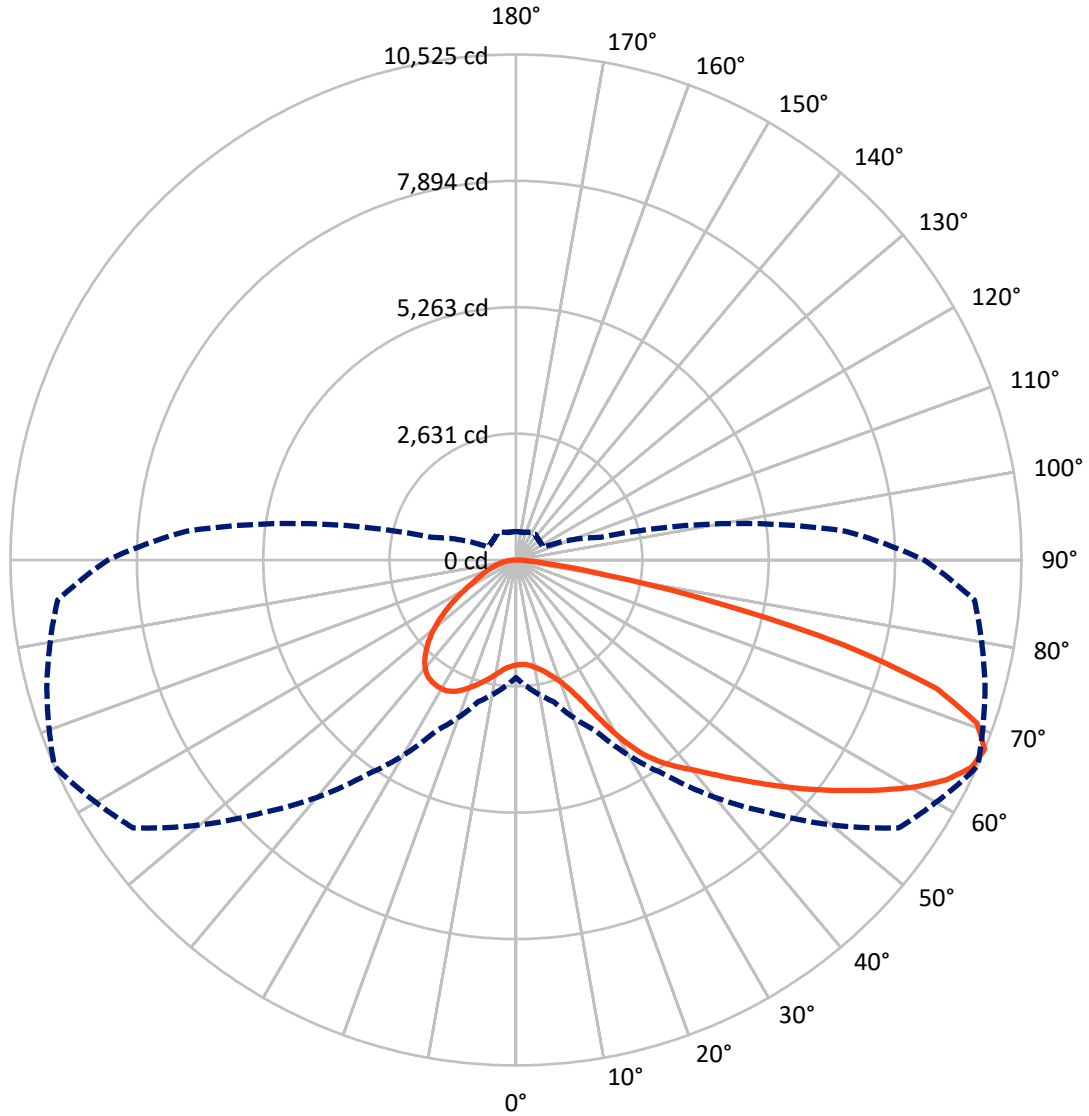
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SB5A-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4902.6	0.0	4902.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14814.4	0.0	14814.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	19717.0	0.0	19717.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	1.1
10°-20°	716.3	3.6
20°-30°	1380.7	7.0
30°-40°	2420.9	12.3
40°-50°	3599.1	18.3
50°-60°	4562.2	23.1
60°-70°	4464.0	22.6
70°-80°	2129.4	10.8
80°-90°	227.6	1.2
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°	19717.0	100.0
0°-180°	19717.0	100.0



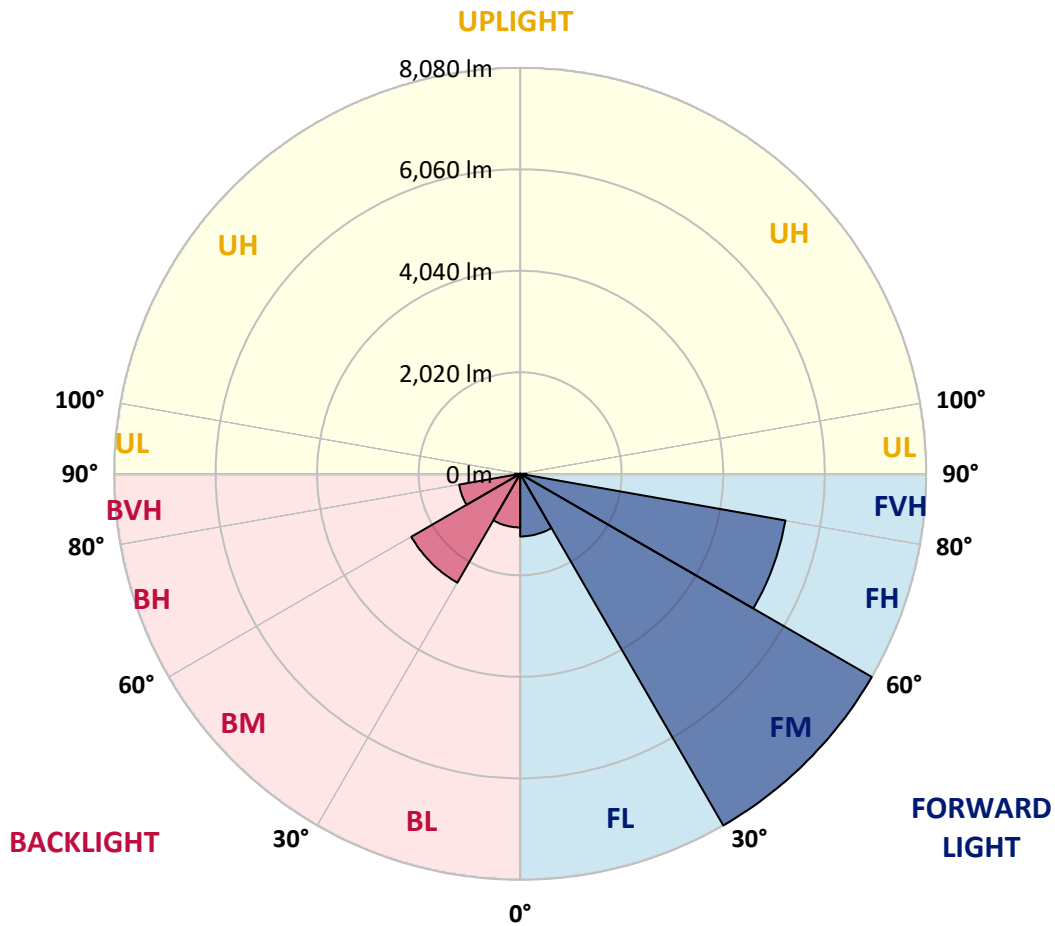
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.9	6.3			
FM (30°-60°)	8079.9	41.0			
FH (60°-80°)	5359.6	27.2			G3/7500
FVH (80°-90°)	129.0	0.7			G2/225
BL (0°-30°)	1068.0	5.4	B3/2500		
BM (30°-60°)	2502.3	12.7	B3/5000		
BH (60°-80°)	1233.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	98.5	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9
2.5°	2164.1	2176.5	2173.4	2168.2	2167.2	2169.3	2172.4	2175.5	2174.4	2179.6
5°	2157.9	2170.3	2169.3	2169.3	2173.4	2181.7	2186.9	2192.1	2186.9	2193.1
7.5°	2162.0	2171.3	2175.5	2179.6	2190.0	2205.5	2218.0	2229.3	2223.1	2230.4
10°	2214.8	2222.1	2226.2	2226.2	2233.5	2251.1	2263.5	2284.3	2279.1	2290.5
12.5°	2311.2	2318.4	2318.4	2314.3	2319.5	2330.9	2335.0	2357.8	2348.5	2367.1
15°	2429.3	2443.8	2432.4	2425.1	2427.2	2438.6	2437.6	2455.2	2445.9	2461.4
17.5°	2559.8	2578.5	2559.8	2558.8	2554.6	2567.1	2568.1	2583.6	2567.1	2578.5
20°	2714.2	2740.1	2724.5	2729.7	2720.4	2725.6	2730.7	2753.5	2727.6	2735.9
22.5°	2931.7	2962.8	2946.2	2965.9	2959.7	2955.5	2954.5	2994.9	2954.5	2957.6
25°	3248.7	3286.0	3257.0	3283.9	3283.9	3297.4	3312.9	3364.7	3297.4	3277.7
27.5°	3717.0	3754.3	3697.3	3713.9	3708.7	3741.8	3725.3	3853.7	3781.2	3749.1
30°	4280.5	4346.8	4239.1	4234.9	4229.8	4282.6	4306.4	4391.4	4317.8	4285.7
32.5°	4889.7	4959.1	4830.6	4793.3	4773.6	4805.7	4786.1	4854.4	4803.7	4753.9
35°	5534.0	5602.4	5480.1	5407.6	5328.9	5261.6	5191.1	5208.7	5161.1	5085.4
37.5°	6143.1	6268.5	6139.0	6061.3	5916.3	5784.7	5587.9	5506.0	5461.5	5392.1
40°	6763.7	6835.2	6736.7	6670.4	6513.0	6306.8	5991.9	5818.9	5758.8	5691.5
42.5°	7220.5	7288.9	7236.1	7190.5	7067.2	6827.9	6420.8	6204.3	6117.2	6041.6
45°	7583.1	7633.9	7600.7	7617.3	7564.5	7332.4	6865.2	6617.6	6527.5	6435.3
47.5°	7729.2	7783.0	7835.9	7934.3	8024.4	7853.5	7342.8	7065.1	6969.8	6875.6
50°	7712.6	7767.5	7920.8	8130.1	8409.8	8352.8	7846.2	7541.7	7453.6	7345.9
52.5°	7580.0	7642.2	7839.0	8187.1	8632.5	8726.8	8359.0	8033.7	7950.9	7822.4
55°	7231.9	7269.2	7564.5	8057.6	8685.3	8987.8	8861.5	8557.9	8475.1	8295.8
57.5°	6586.5	6640.4	7070.3	7708.5	8552.7	9165.0	9302.8	9109.0	9029.3	8771.3
60°	5744.3	5830.3	6322.4	7122.1	8215.0	9164.0	9703.7	9650.8	9584.5	9239.6
62.5°	4791.2	4890.7	5364.1	6293.4	7624.5	8903.9	9954.4	10104.6	10070.4	9671.6
65°	3679.7	3748.0	4219.4	5221.2	6705.7	8345.6	9983.4	10414.3	10420.6	10000.0
67.5°	2450.0	2646.8	3056.0	3917.9	5475.0	7432.9	9728.5	10465.1	10525.2	10112.9
70°	1195.5	1454.5	1855.4	2546.3	3917.9	6033.3	9062.4	10048.6	10182.3	9783.4
72.5°	496.2	580.1	798.7	1256.6	2249.0	4071.3	7724.0	8919.5	9167.1	8668.8
75°	334.6	362.6	456.9	644.4	1024.5	2007.7	5570.3	6650.8	7049.6	6547.2
77.5°	257.9	275.6	332.5	450.6	609.1	759.3	2981.4	4008.1	4214.2	3901.4
80°	203.0	216.5	248.6	328.4	432.0	406.1	1016.3	1816.0	1935.1	1623.3
82.5°	176.1	181.3	178.2	222.7	287.0	237.2	333.6	670.3	739.7	536.6
85°	127.4	141.9	148.1	137.8	152.3	120.2	136.7	237.2	261.1	233.1
87.5°	51.8	76.7	94.3	89.1	55.9	34.2	42.5	69.4	79.8	87.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941507
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2186.9	0°	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9
2187.9	2.5°	2188.9	2196.2	2201.4	2207.6	2211.7	2218.0	2230.4	2237.6	2238.7	2243.9
2204.5	5°	2208.6	2219.0	2230.4	2247.0	2265.6	2281.1	2305.0	2321.5	2327.8	2332.9
2244.9	7.5°	2251.1	2265.6	2286.3	2315.3	2342.3	2363.0	2392.0	2411.7	2431.4	2438.6
2309.1	10°	2314.3	2335.0	2365.1	2404.4	2433.4	2460.4	2490.4	2507.0	2526.7	2535.0
2385.8	12.5°	2393.0	2414.8	2454.1	2509.1	2536.0	2554.6	2565.0	2560.9	2565.0	2572.2
2478.0	15°	2483.2	2507.0	2551.5	2610.6	2629.2	2612.6	2589.9	2569.1	2566.0	2568.1
2589.9	17.5°	2589.9	2607.5	2659.3	2709.0	2695.5	2627.2	2577.4	2544.3	2527.7	2522.5
2732.8	20°	2739.0	2739.0	2781.5	2812.6	2722.5	2606.4	2528.7	2474.9	2440.7	2426.2
2927.6	22.5°	2920.3	2903.7	2930.7	2908.9	2717.3	2548.4	2440.7	2347.4	2295.6	2274.9
3200.0	25°	3150.3	3130.6	3123.4	2988.7	2680.0	2456.2	2281.1	2168.2	2122.6	2111.3
3592.7	27.5°	3497.3	3447.6	3353.3	3032.2	2611.6	2311.2	2094.7	1990.0	1964.1	1965.2
4097.2	30°	3959.4	3859.9	3628.9	3039.5	2499.7	2106.1	1904.1	1829.5	1817.0	1822.2
4520.9	32.5°	4387.2	4292.9	3910.7	3006.3	2327.8	1905.1	1733.1	1683.4	1664.8	1671.0
4844.1	35°	4722.9	4697.0	4171.7	2959.7	2116.4	1716.6	1579.8	1537.3	1501.1	1492.8
5148.6	37.5°	5039.9	5029.5	4367.5	2894.4	1907.2	1582.9	1456.5	1400.6	1347.8	1318.8
5485.3	40°	5387.9	5377.6	4496.0	2793.9	1721.7	1466.9	1345.7	1272.1	1206.9	1154.0
5866.5	42.5°	5779.5	5718.4	4557.1	2649.9	1564.3	1368.5	1255.6	1156.1	1070.1	1021.4
6297.5	45°	6207.4	6069.6	4556.1	2466.6	1431.7	1278.4	1159.2	1018.3	938.6	893.0
6739.8	47.5°	6661.1	6405.2	4500.1	2263.5	1303.2	1178.9	1010.0	902.3	849.5	821.5
7220.5	50°	7129.4	6719.1	4404.8	2030.4	1171.7	1066.0	916.8	843.3	802.9	777.0
7697.1	52.5°	7569.6	7004.0	4289.8	1766.3	1038.0	956.2	875.4	818.4	775.9	746.9
8159.1	55°	7978.8	7249.5	4127.2	1495.9	929.2	882.6	855.7	808.0	759.3	725.2
8628.4	57.5°	8342.4	7409.1	3846.5	1242.1	851.5	831.9	835.0	790.4	734.5	705.5
9090.4	60°	8644.9	7526.1	3431.0	1006.9	788.4	782.1	802.9	757.3	692.0	658.9
9481.0	62.5°	8826.2	7524.1	2921.4	824.6	734.5	736.6	760.4	715.8	649.5	618.5
9685.0	65°	8810.7	7339.7	2362.0	705.5	682.7	684.8	715.8	670.3	614.3	595.7
9582.5	67.5°	8498.9	6890.1	1811.9	627.8	625.7	635.0	671.3	639.2	592.6	590.5
8971.3	70°	7654.6	5956.7	1305.3	565.6	566.7	580.1	627.8	619.5	581.2	585.3
7542.7	72.5°	6138.0	4541.6	876.4	500.4	501.4	523.2	586.3	604.0	569.8	624.7
5351.7	75°	4087.8	2832.3	563.6	431.0	432.0	460.0	550.1	573.9	538.7	622.6
2784.6	77.5°	1964.1	1273.2	408.2	362.6	362.6	388.5	475.5	513.8	458.9	483.8
895.1	80°	678.5	478.6	321.1	292.1	285.9	303.5	400.9	445.5	395.7	364.7
292.1	82.5°	267.3	248.6	257.9	226.9	206.2	217.5	311.8	367.8	291.1	263.1
164.7	85°	153.3	161.6	182.3	150.2	119.1	133.6	228.9	264.2	219.6	193.7
53.9	87.5°	41.4	57.0	83.9	77.7	53.9	57.0	108.8	146.1	126.4	97.4
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>
2186.9
2242.8
2331.9
2439.6
2539.1
2574.3
2575.4
2529.8
2423.1
2271.8
2113.3
1968.3
1839.8
1679.3
1499.0
1319.8
1159.2
1024.5
890.9
815.3
767.6
734.5
711.7
686.8
644.4
609.1
594.6
593.6
584.3
633.0
627.8
443.4
341.9
262.1
197.9
100.5
0.0

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