

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: P943089

Luminaire Tested: **GALN-SB7B-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24093 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

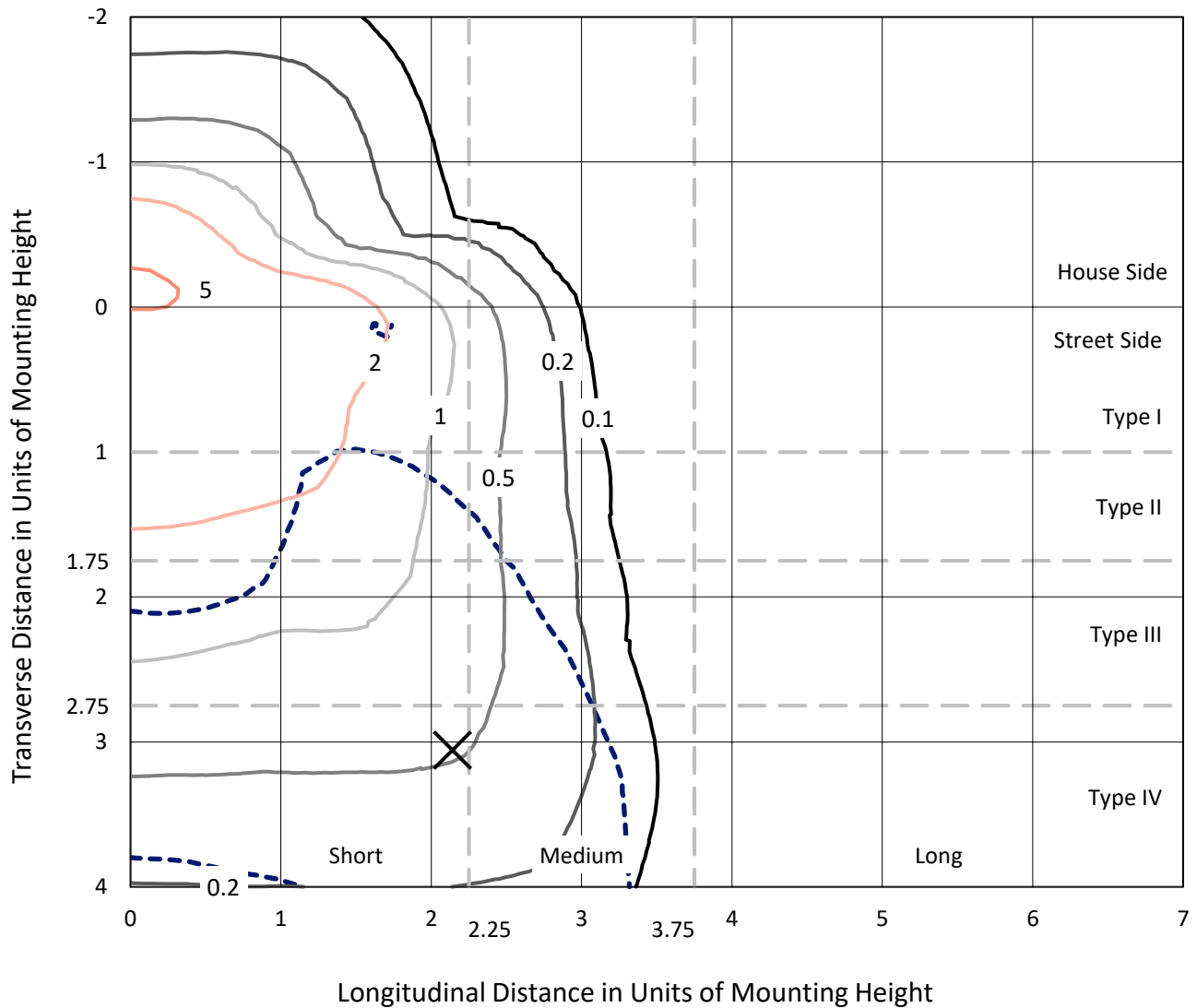
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

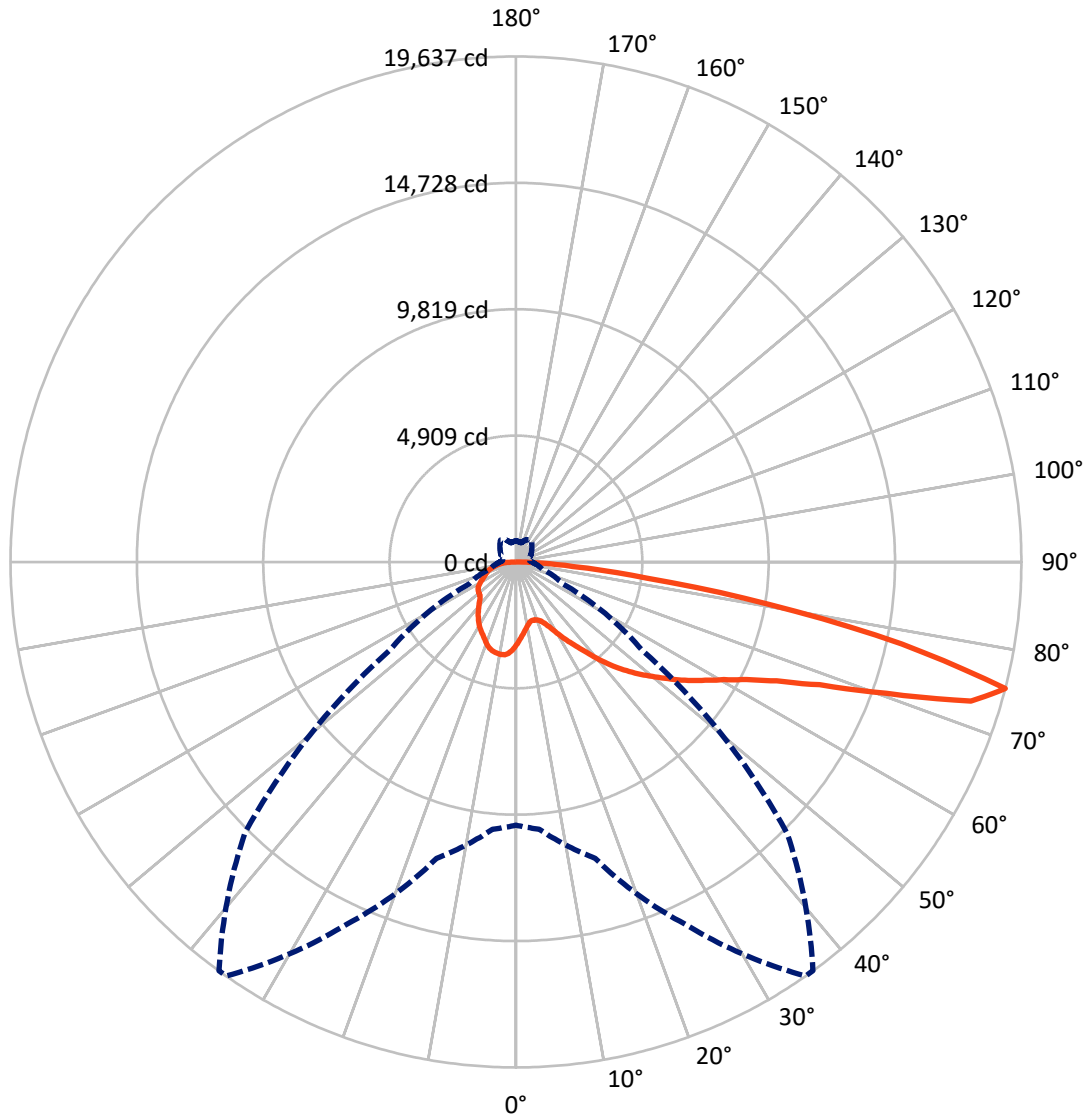
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5733.5	0.0	5733.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18359.5	0.0	18359.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	24093.0	0.0	24093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.0	1.3
10°-20°	876.8	3.6
20°-30°	1472.4	6.1
30°-40°	2288.3	9.5
40°-50°	3396.4	14.1
50°-60°	4688.9	19.5
60°-70°	5688.8	23.6
70°-80°	4701.3	19.5
80°-90°	676.2	2.8
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°	24093.0	100.0
0°-180°	24093.0	100.0

Coefficient of Utilization



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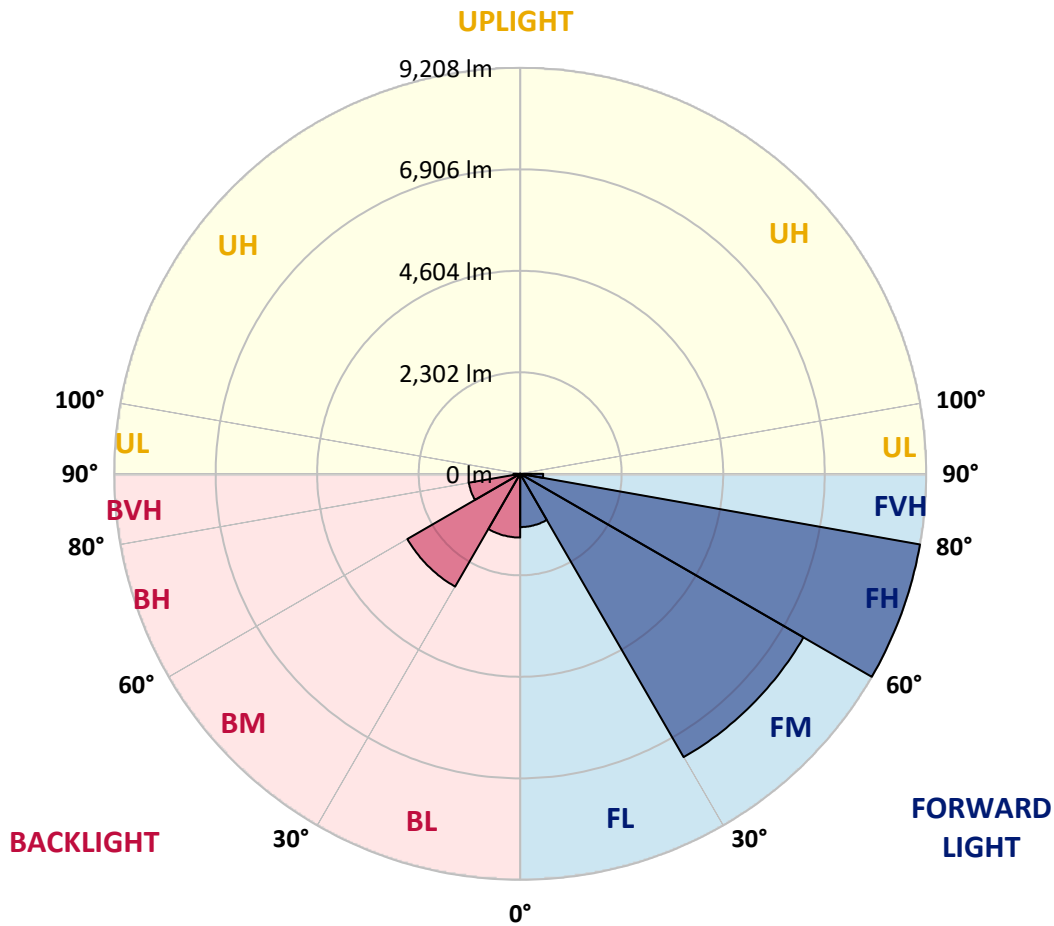
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1208.2	5.0			
FM (30°-60°)	7419.3	30.8			
FH (60°-80°)	9208.0	38.2			G4/12000
FVH (80°-90°)	523.9	2.2			G4/750
BL (0°-30°)	1444.9	6.0	B3/2500		
BM (30°-60°)	2954.3	12.3	B3/5000		
BH (60°-80°)	1182.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	152.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6
2.5°	2960.5	2978.7	2986.5	2982.6	3002.2	2999.6	3026.9	3060.8	3107.7	3153.2
5°	2732.6	2752.1	2769.0	2784.7	2822.4	2834.1	2877.1	2942.2	3028.2	3115.5
7.5°	2520.3	2537.2	2563.2	2591.9	2655.7	2667.4	2739.1	2840.7	2960.5	3088.1
10°	2347.0	2364.0	2391.3	2423.9	2503.3	2517.6	2608.8	2744.3	2900.6	3062.1
12.5°	2272.8	2278.0	2293.6	2326.2	2395.2	2404.3	2504.6	2659.6	2842.0	3042.5
15°	2268.9	2279.3	2280.6	2297.5	2354.8	2358.7	2451.2	2604.9	2805.5	3038.6
17.5°	2308.0	2315.8	2304.0	2314.5	2362.7	2369.2	2442.1	2578.9	2793.8	3055.6
20°	2412.1	2418.7	2383.5	2369.2	2404.3	2409.5	2481.2	2595.8	2805.5	3090.7
22.5°	2633.6	2637.5	2551.5	2492.9	2495.5	2498.1	2560.6	2664.8	2851.1	3154.5
25°	2978.7	2976.1	2839.4	2726.0	2660.9	2646.6	2688.3	2776.8	2927.9	3239.2
27.5°	3382.5	3362.9	3226.2	3056.9	2914.9	2894.1	2884.9	2922.7	3037.3	3351.2
30°	3838.3	3820.1	3672.9	3451.5	3254.8	3221.0	3135.0	3115.5	3200.1	3503.6
32.5°	4338.5	4326.8	4150.9	3882.6	3619.5	3580.5	3435.9	3383.8	3450.2	3734.1
35°	4757.9	4747.5	4601.6	4325.5	4003.8	3955.6	3808.4	3749.8	3783.6	4029.8
37.5°	5136.9	5131.7	5006.6	4789.1	4457.0	4398.4	4233.0	4213.4	4206.9	4419.2
40°	5488.6	5475.5	5345.3	5230.7	4984.5	4931.1	4785.2	4768.3	4718.8	4898.5
42.5°	5878.0	5844.1	5655.3	5601.9	5535.4	5491.2	5403.9	5406.5	5297.1	5439.1
45°	6195.8	6176.2	5982.2	5950.9	6022.6	6004.3	6079.9	6099.4	5887.1	6005.6
47.5°	6537.0	6518.8	6354.7	6332.5	6526.6	6531.8	6798.8	6805.3	6462.8	6594.3
50°	6957.7	6931.7	6768.9	6796.2	7013.7	7033.3	7521.7	7477.4	6992.9	7192.2
52.5°	7235.1	7250.8	7215.6	7259.9	7556.9	7575.1	8232.8	8119.5	7517.8	7782.2
55°	7439.6	7470.9	7580.3	7681.9	8129.9	8148.2	8903.6	8730.4	7952.8	8329.2
57.5°	7702.7	7658.4	7862.9	8060.9	8674.4	8722.6	9556.1	9319.1	8338.3	8800.7
60°	8080.4	8049.2	8208.1	8501.1	9283.9	9360.8	10246.4	9849.2	8621.0	9174.5
62.5°	8846.3	8768.1	8792.9	9052.1	10052.4	10154.0	11025.3	10311.5	8761.6	9320.4
65°	9991.1	9857.0	9732.0	9911.7	11134.7	11235.0	11904.5	10674.9	8709.5	9037.7
67.5°	11433.0	11300.1	11146.4	11315.7	12728.9	12808.4	12989.4	10879.4	8299.3	7948.9
70°	12622.1	12572.6	12756.3	13453.1	15275.2	15277.8	14380.4	10710.1	7175.2	5635.7
72.5°	12464.5	12434.6	13402.3	15556.5	18484.5	18415.4	15697.2	9428.5	4833.4	2542.4
75°	10225.6	10419.7	11918.8	15518.8	19637.1	19628.0	14891.0	5993.9	1999.3	1053.7
77.5°	5483.3	5790.7	7737.9	11457.7	15329.9	15560.4	10469.1	2097.0	858.3	674.7
80°	1788.3	2056.6	3084.2	5833.7	9961.2	9918.2	4487.0	823.2	587.4	478.0
82.5°	759.3	790.6	1378.0	2754.7	5112.1	5032.7	1428.8	472.8	412.9	326.9
85°	297.0	332.1	608.2	1273.8	2214.2	2166.0	515.8	234.4	264.4	213.6
87.5°	97.7	118.5	217.5	436.3	689.0	664.3	126.3	80.8	114.6	97.7
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°
3210.6	0°	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6
3219.7	2.5°	3237.9	3258.7	3283.5	3320.0	3351.2	3377.3	3404.6	3421.6	3428.1	3447.6
3224.9	5°	3261.4	3306.9	3368.2	3428.1	3486.7	3521.8	3553.1	3568.7	3583.1	3593.5
3239.2	7.5°	3300.4	3359.0	3455.4	3533.6	3583.1	3611.7	3632.6	3627.3	3632.6	3635.2
3254.8	10°	3334.3	3416.3	3531.0	3605.2	3643.0	3644.3	3639.1	3620.8	3611.7	3613.0
3278.3	12.5°	3374.7	3465.8	3589.6	3652.1	3662.5	3633.9	3611.7	3580.5	3568.7	3563.5
3313.4	15°	3429.4	3533.6	3653.4	3676.8	3650.8	3614.3	3576.5	3525.7	3499.7	3478.9
3373.4	17.5°	3495.8	3610.4	3702.9	3686.0	3629.9	3570.0	3508.8	3432.0	3378.6	3356.4
3455.4	20°	3588.3	3691.2	3740.7	3666.4	3581.8	3490.6	3386.4	3292.6	3243.1	3221.0
3559.6	22.5°	3700.3	3799.3	3777.1	3632.6	3512.7	3366.9	3236.6	3167.6	3142.8	3127.2
3693.8	25°	3834.4	3919.1	3803.2	3583.1	3399.4	3202.7	3102.5	3080.3	3068.6	3056.9
3857.9	27.5°	4009.0	4054.5	3822.7	3510.1	3222.3	3028.2	2991.7	2995.6	2991.7	2972.2
4085.8	30°	4239.5	4230.4	3840.9	3391.6	3019.1	2870.6	2873.2	2890.2	2892.8	2879.7
4403.6	32.5°	4543.0	4450.5	3850.1	3237.9	2825.0	2732.6	2735.2	2753.4	2766.4	2744.3
4819.1	35°	4910.3	4707.1	3835.7	3045.1	2675.2	2601.0	2581.5	2586.7	2590.6	2569.7
5323.1	37.5°	5338.8	4994.9	3771.9	2831.5	2551.5	2472.1	2430.4	2395.2	2374.4	2354.8
5893.6	40°	5809.0	5308.8	3654.7	2623.1	2413.5	2335.3	2272.8	2206.4	2136.0	2110.0
6498.0	42.5°	6301.3	5631.8	3512.7	2423.9	2254.6	2190.7	2124.3	2027.9	1922.4	1869.0
7125.7	45°	6811.8	5962.6	3373.4	2227.2	2091.7	2064.4	1987.5	1871.6	1757.0	1689.3
7754.8	47.5°	7312.0	6275.2	3168.9	2029.2	1939.4	1969.3	1909.4	1802.6	1675.0	1568.2
8378.7	50°	7790.0	6568.3	2834.1	1828.6	1815.6	1940.7	1883.4	1729.7	1583.8	1447.0
8990.9	52.5°	8264.1	6805.3	2405.6	1646.3	1749.2	1932.8	1849.5	1680.2	1501.7	1358.5
9566.5	55°	8666.5	6927.8	1992.8	1490.0	1652.8	1866.4	1809.1	1621.6	1385.8	1233.4
9961.2	57.5°	8895.8	6828.8	1648.9	1336.3	1520.0	1757.0	1740.1	1496.5	1247.8	1130.5
10038.0	60°	8796.8	6427.6	1367.6	1202.2	1393.6	1638.5	1620.3	1372.8	1142.3	1031.5
9626.5	62.5°	8251.1	5663.1	1144.9	1084.9	1279.0	1517.4	1500.4	1277.7	1061.5	954.7
8533.7	65°	7151.8	4606.8	971.6	987.3	1163.1	1371.5	1396.2	1198.3	997.7	893.5
6602.2	67.5°	5454.7	3336.9	836.2	902.6	1049.8	1228.2	1299.9	1141.0	944.3	845.3
3820.1	70°	3109.0	1895.1	721.6	820.5	949.5	1095.4	1225.6	1095.4	887.0	804.9
1431.4	72.5°	1178.7	870.0	623.9	738.5	853.1	983.4	1143.6	1023.7	820.5	759.3
739.8	75°	629.1	530.1	524.9	642.1	742.4	873.9	1040.7	953.4	771.1	802.3
511.9	77.5°	428.5	375.1	438.9	549.6	621.3	752.8	931.3	846.6	668.2	665.6
354.3	80°	297.0	265.7	356.9	442.8	480.6	633.0	812.7	726.8	544.4	508.0
218.8	82.5°	178.4	173.2	267.0	330.8	339.9	488.4	673.4	609.5	445.4	388.1
130.2	85°	97.7	102.9	170.6	194.1	198.0	341.2	527.5	471.5	342.5	287.8
46.9	87.5°	27.4	35.2	62.5	76.8	95.1	177.1	313.9	280.0	171.9	119.8
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>
3210.6
3446.3
3596.1
3639.1
3615.6
3560.9
3485.4
3357.7
3218.4
3129.8
3056.9
2976.1
2886.2
2754.7
2584.1
2367.9
2121.7
1875.5
1684.1
1556.4
1435.3
1342.8
1220.4
1114.9
1015.9
937.8
876.6
829.7
794.5
748.9
828.4
613.5
485.8
390.7
290.4
119.8
0.0

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