

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: P942869

Luminaire Tested: **GALN-SB7A-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942869
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-SB7A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27418 lumens
Efficiency: N/A
Efficacy: 137.7 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

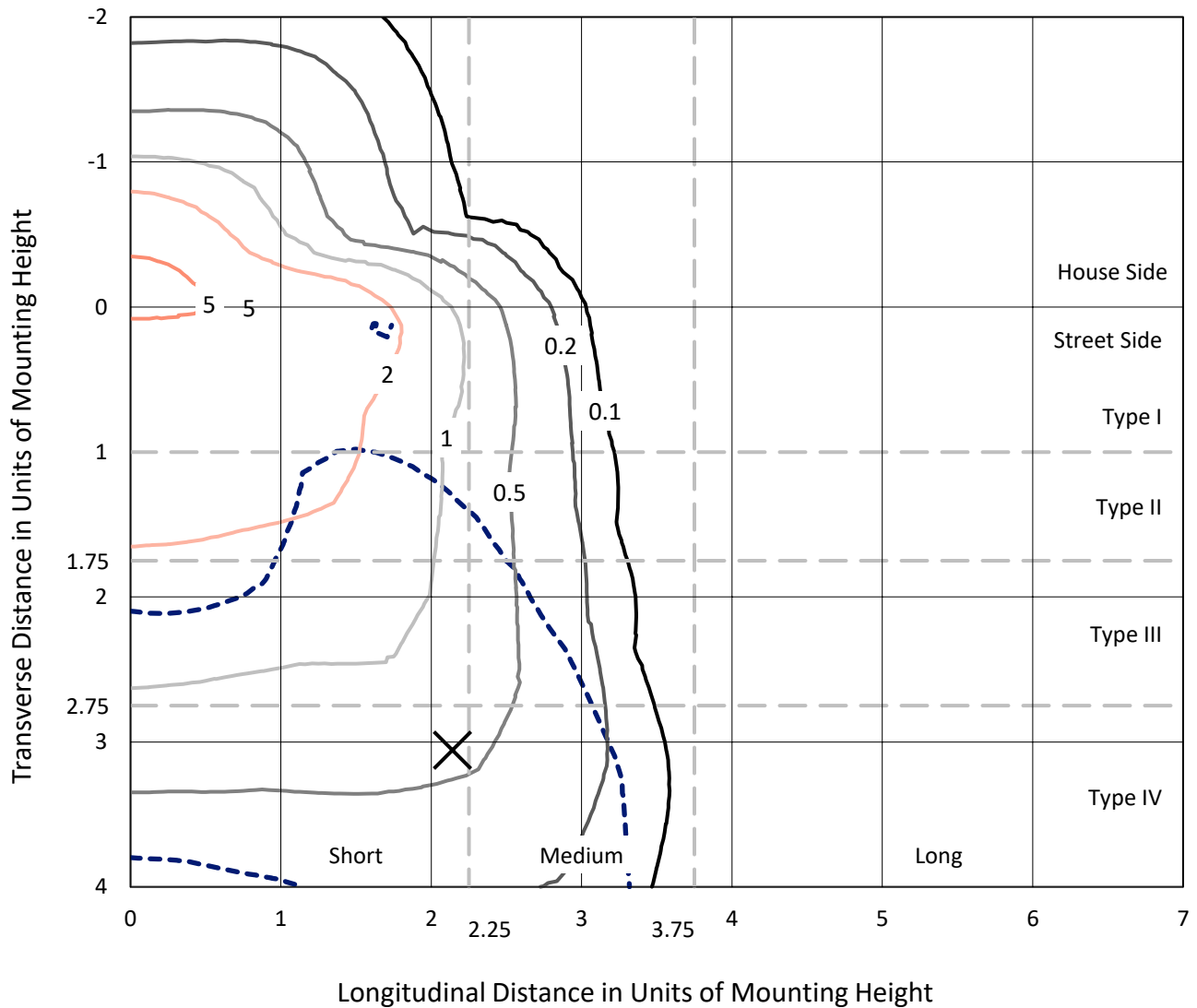
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

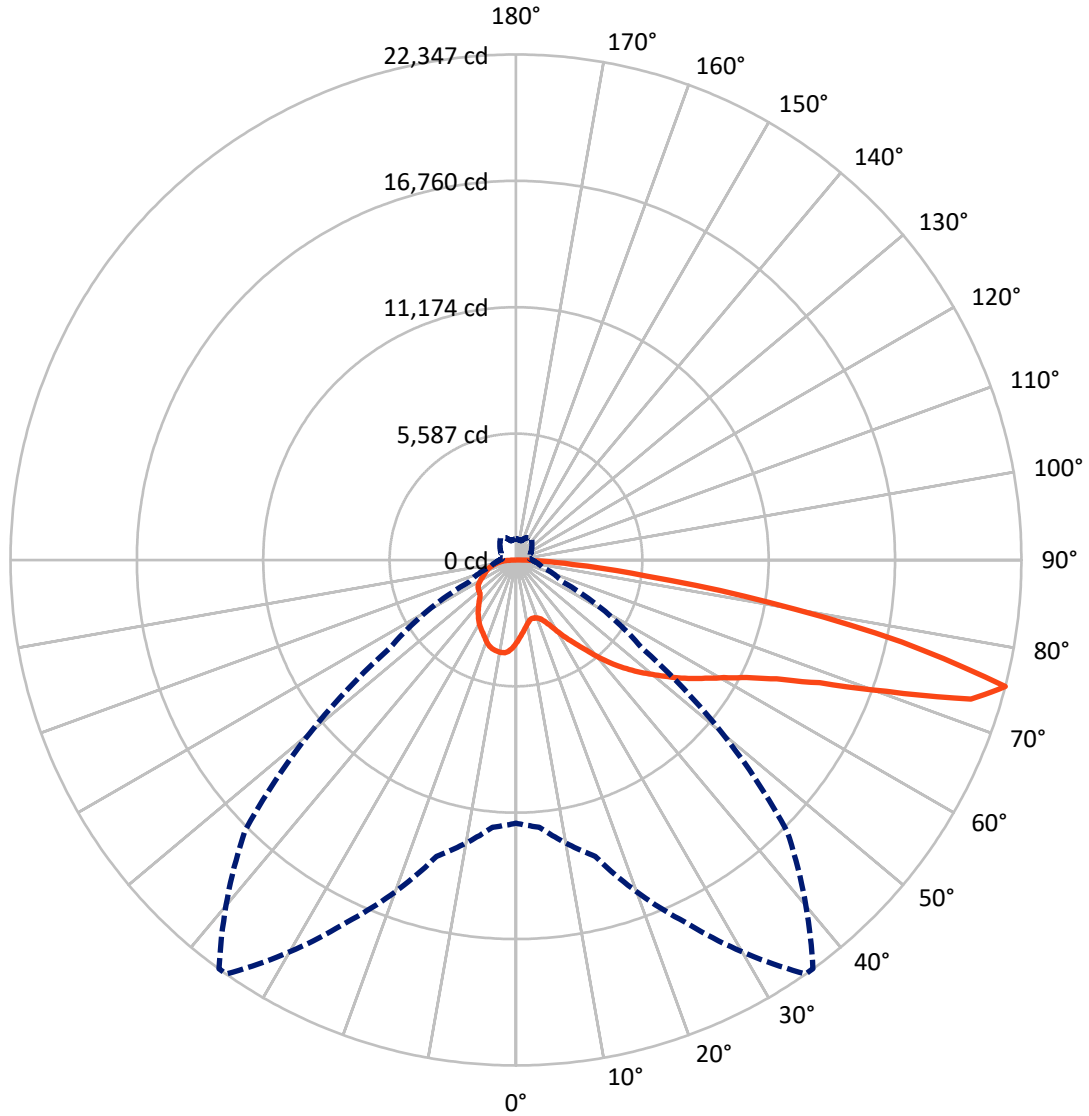
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	6524.8	0.0	6524.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20893.2	0.0	20893.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	27418.0	0.0	27418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.9	1.3
10°-20°	997.8	3.6
20°-30°	1675.6	6.1
30°-40°	2604.1	9.5
40°-50°	3865.1	14.1
50°-60°	5336.0	19.5
60°-70°	6473.8	23.6
70°-80°	5350.1	19.5
80°-90°	769.5	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°	27418.0	100.0
0°-180°	27418.0	100.0

Coefficient of Utilization



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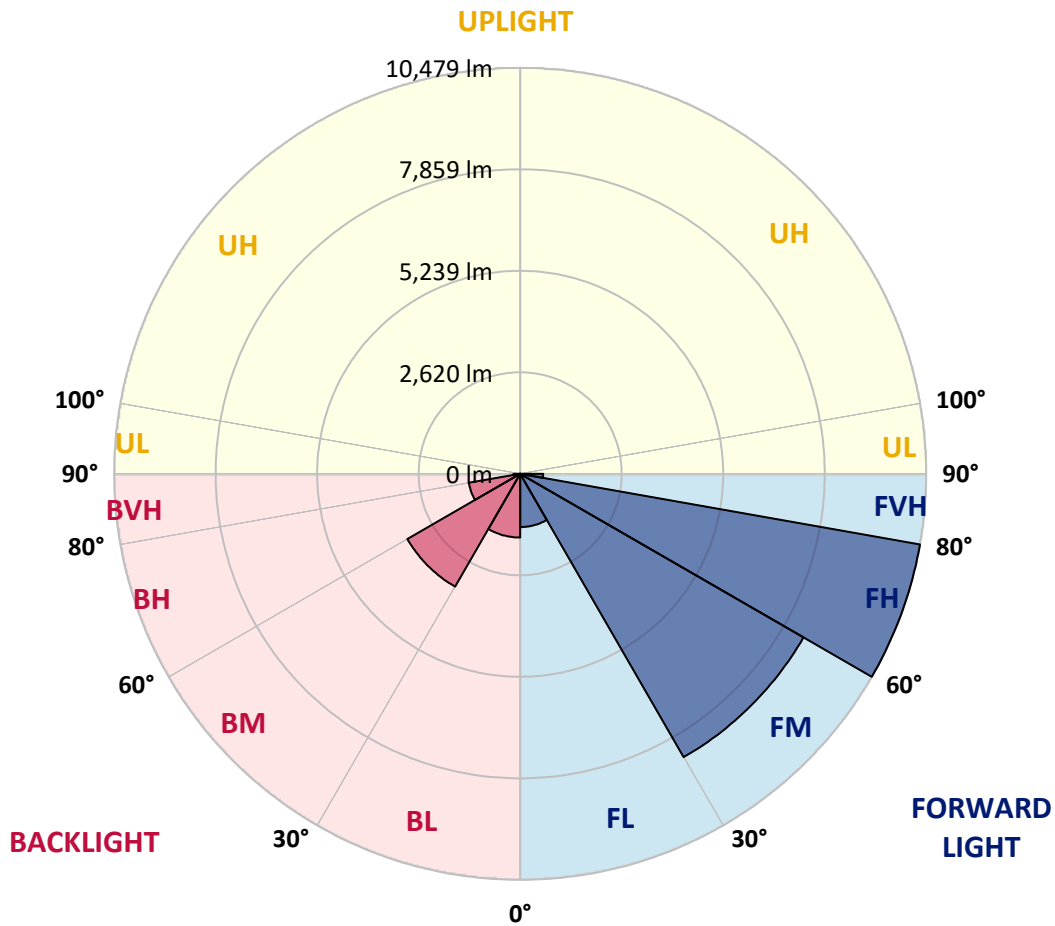
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.0	5.0			
FM (30°-60°)	8443.3	30.8			
FH (60°-80°)	10478.8	38.2			G4/12000
FVH (80°-90°)	596.2	2.2			G4/750
BL (0°-30°)	1644.3	6.0	B3/2500		
BM (30°-60°)	3362.0	12.3	B3/5000		
BH (60°-80°)	1345.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	173.3	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°	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6
2.5°	3369.1	3389.8	3398.7	3394.2	3416.5	3413.5	3444.6	3483.2	3536.5	3588.4
5°	3109.7	3131.9	3151.2	3169.0	3211.9	3225.3	3274.2	3348.3	3446.1	3545.4
7.5°	2868.1	2887.3	2917.0	2949.6	3022.2	3035.6	3117.1	3232.7	3369.1	3514.3
10°	2670.9	2690.2	2721.3	2758.4	2848.8	2865.1	2968.9	3123.0	3300.9	3484.7
12.5°	2586.4	2592.4	2610.2	2647.2	2725.8	2736.1	2850.3	3026.7	3234.2	3462.4
15°	2582.0	2593.9	2595.3	2614.6	2679.8	2684.3	2789.5	2964.4	3192.7	3458.0
17.5°	2626.5	2635.4	2622.0	2633.9	2688.7	2696.1	2779.1	2934.8	3179.3	3477.3
20°	2745.0	2752.5	2712.4	2696.1	2736.1	2742.1	2823.6	2954.0	3192.7	3517.3
22.5°	2997.0	3001.5	2903.6	2836.9	2839.9	2842.9	2914.0	3032.6	3244.5	3589.9
25°	3389.8	3386.8	3231.2	3102.3	3028.1	3011.8	3059.3	3160.1	3332.0	3686.2
27.5°	3849.3	3827.1	3671.4	3478.7	3317.2	3293.5	3283.1	3326.1	3456.5	3813.7
30°	4368.1	4347.3	4179.8	3927.8	3704.0	3665.5	3567.7	3545.4	3641.8	3987.1
32.5°	4937.2	4923.9	4723.8	4418.5	4119.0	4074.6	3910.1	3850.8	3926.4	4249.5
35°	5414.5	5402.6	5236.6	4922.4	4556.3	4501.5	4334.0	4267.3	4305.8	4585.9
37.5°	5845.8	5839.9	5697.6	5450.1	5072.1	5005.4	4817.2	4794.9	4787.5	5029.1
40°	6246.0	6231.2	6083.0	5952.5	5672.4	5611.6	5445.6	5426.4	5370.0	5574.6
42.5°	6689.2	6650.7	6435.7	6375.0	6299.4	6249.0	6149.7	6152.6	6028.1	6189.7
45°	7050.8	7028.6	6807.8	6772.2	6853.7	6833.0	6918.9	6941.2	6699.6	6834.4
47.5°	7439.2	7418.4	7231.7	7206.5	7427.3	7433.3	7737.1	7744.5	7354.7	7504.4
50°	7917.9	7888.3	7703.0	7734.1	7981.7	8003.9	8559.7	8509.3	7958.0	8184.7
52.5°	8233.6	8251.4	8211.4	8261.8	8599.8	8620.5	9369.0	9240.1	8555.3	8856.2
55°	8466.4	8501.9	8626.4	8742.0	9251.9	9272.7	10132.3	9935.2	9050.3	9478.7
57.5°	8765.8	8715.4	8948.1	9173.4	9871.5	9926.3	10874.9	10605.2	9489.1	10015.3
60°	9195.6	9160.0	9340.9	9674.3	10565.2	10652.6	11660.5	11208.4	9810.7	10440.6
62.5°	10067.1	9978.2	10006.4	10301.3	11439.7	11555.3	12546.9	11734.6	9970.8	10606.7
65°	11370.0	11217.3	11075.0	11279.6	12671.4	12785.5	13547.3	12148.1	9911.5	10285.0
67.5°	13010.8	12859.6	12684.7	12877.4	14485.6	14576.0	14782.0	12380.9	9444.6	9045.9
70°	14364.0	14307.7	14516.7	15309.7	17383.3	17386.3	16365.0	12188.2	8165.5	6413.5
72.5°	14184.7	14150.6	15251.9	17703.4	21035.4	20956.9	17863.5	10729.7	5500.5	2893.3
75°	11636.8	11857.6	13563.7	17660.5	22347.2	22336.8	16946.0	6821.1	2275.2	1199.1
77.5°	6240.1	6589.9	8805.8	13039.0	17445.5	17707.9	11914.0	2386.3	976.8	767.8
80°	2035.1	2340.4	3509.9	6638.8	11335.9	11287.0	5106.2	936.8	668.5	544.0
82.5°	864.1	899.7	1568.2	3134.9	5817.7	5727.2	1626.0	538.0	469.9	372.0
85°	337.9	378.0	692.2	1449.6	2519.7	2464.9	587.0	266.8	300.9	243.1
87.5°	111.2	134.9	247.5	496.5	784.1	755.9	143.8	91.9	130.4	111.2
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°
3653.6	0°	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6
3664.0	2.5°	3684.8	3708.5	3736.6	3778.1	3813.7	3843.4	3874.5	3893.8	3901.2	3923.4
3669.9	5°	3711.4	3763.3	3833.0	3901.2	3967.9	4007.9	4043.5	4061.2	4077.5	4089.4
3686.2	7.5°	3755.9	3822.6	3932.3	4021.2	4077.5	4110.2	4133.9	4127.9	4133.9	4136.8
3704.0	10°	3794.4	3887.8	4018.3	4102.7	4145.7	4147.2	4141.3	4120.5	4110.2	4111.6
3730.7	12.5°	3840.4	3944.1	4085.0	4156.1	4168.0	4135.4	4110.2	4074.6	4061.2	4055.3
3770.7	15°	3902.6	4021.2	4157.6	4184.3	4154.6	4113.1	4070.1	4012.3	3982.7	3959.0
3838.9	17.5°	3978.2	4108.7	4213.9	4194.6	4130.9	4062.7	3993.1	3905.6	3844.8	3819.6
3932.3	20°	4083.5	4200.6	4256.9	4172.4	4076.1	3972.3	3853.7	3747.0	3690.7	3665.5
4050.9	22.5°	4210.9	4323.6	4298.4	4133.9	3997.5	3831.5	3683.3	3604.7	3576.6	3558.8
4203.5	25°	4363.6	4460.0	4328.0	4077.5	3868.6	3644.7	3530.6	3505.4	3492.1	3478.7
4390.3	27.5°	4562.2	4614.1	4350.3	3994.5	3667.0	3446.1	3404.6	3409.1	3404.6	3382.4
4649.7	30°	4824.6	4814.2	4371.0	3859.7	3435.7	3266.8	3269.7	3289.0	3292.0	3277.2
5011.3	32.5°	5169.9	5064.7	4381.4	3684.8	3214.9	3109.7	3112.6	3133.4	3148.2	3123.0
5484.2	35°	5587.9	5356.7	4365.1	3465.4	3044.4	2960.0	2937.7	2943.7	2948.1	2924.4
6057.8	37.5°	6075.6	5684.3	4292.5	3222.3	2903.6	2813.2	2765.8	2725.8	2702.1	2679.8
6707.0	40°	6610.6	6041.5	4159.1	2985.2	2746.5	2657.6	2586.4	2510.9	2430.8	2401.2
7394.7	42.5°	7170.9	6409.1	3997.5	2758.4	2565.7	2493.1	2417.5	2307.8	2187.7	2127.0
8109.1	45°	7751.9	6785.5	3838.9	2534.6	2380.4	2349.3	2261.8	2129.9	1999.5	1922.4
8825.0	47.5°	8321.1	7141.3	3606.2	2309.3	2207.0	2241.1	2172.9	2051.4	1906.1	1784.6
9535.0	50°	8865.1	7474.8	3225.3	2081.0	2066.2	2208.5	2143.3	1968.4	1802.4	1646.7
10231.7	52.5°	9404.6	7744.5	2737.6	1873.5	1990.6	2199.6	2104.7	1912.0	1709.0	1545.9
10886.8	55°	9862.6	7883.8	2267.8	1695.6	1880.9	2124.0	2058.8	1845.3	1577.1	1403.6
11335.9	57.5°	10123.5	7771.2	1876.5	1520.7	1729.7	1999.5	1980.2	1703.1	1420.0	1286.6
11423.3	60°	10010.8	7314.7	1556.3	1368.1	1586.0	1864.6	1843.9	1562.2	1299.9	1173.9
10955.0	62.5°	9389.8	6444.6	1302.9	1234.7	1455.5	1726.8	1707.5	1454.0	1208.0	1086.5
9711.4	65°	8138.8	5242.6	1105.7	1123.5	1323.6	1560.8	1588.9	1363.6	1135.4	1016.8
7513.3	67.5°	6207.5	3797.4	951.6	1027.2	1194.7	1397.7	1479.2	1298.4	1074.6	962.0
4347.3	70°	3538.0	2156.6	821.1	933.8	1080.5	1246.5	1394.8	1246.5	1009.4	916.0
1628.9	72.5°	1341.4	990.1	710.0	840.4	970.8	1119.1	1301.4	1165.0	933.8	864.1
841.9	75°	715.9	603.3	597.3	730.7	844.9	994.6	1184.3	1085.0	877.5	913.0
582.5	77.5°	487.6	426.9	499.5	625.5	707.0	856.7	1059.8	963.4	760.4	757.4
403.2	80°	337.9	302.4	406.1	503.9	546.9	720.4	924.9	827.1	619.6	578.1
249.0	82.5°	203.1	197.1	303.9	376.5	386.9	555.8	766.3	693.7	506.9	441.7
148.2	85°	111.2	117.1	194.2	220.8	225.3	388.3	600.3	536.6	389.8	327.6
53.4	87.5°	31.1	40.0	71.1	87.5	108.2	201.6	357.2	318.7	195.7	136.4
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>
3653.6
3921.9
4092.4
4141.3
4114.6
4052.3
3966.4
3821.1
3662.5
3561.7
3478.7
3386.8
3284.6
3134.9
2940.7
2694.6
2414.5
2134.4
1916.5
1771.2
1633.4
1528.2
1388.8
1268.8
1156.1
1067.2
997.5
944.2
904.1
852.3
942.7
698.1
552.9
444.7
330.5
136.4
0.0

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