

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: P944279

Luminaire Tested: **GALN-SB9A-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944279
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-SB9A-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 24581 lumens
Efficiency: N/A
Efficacy: 96.2 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

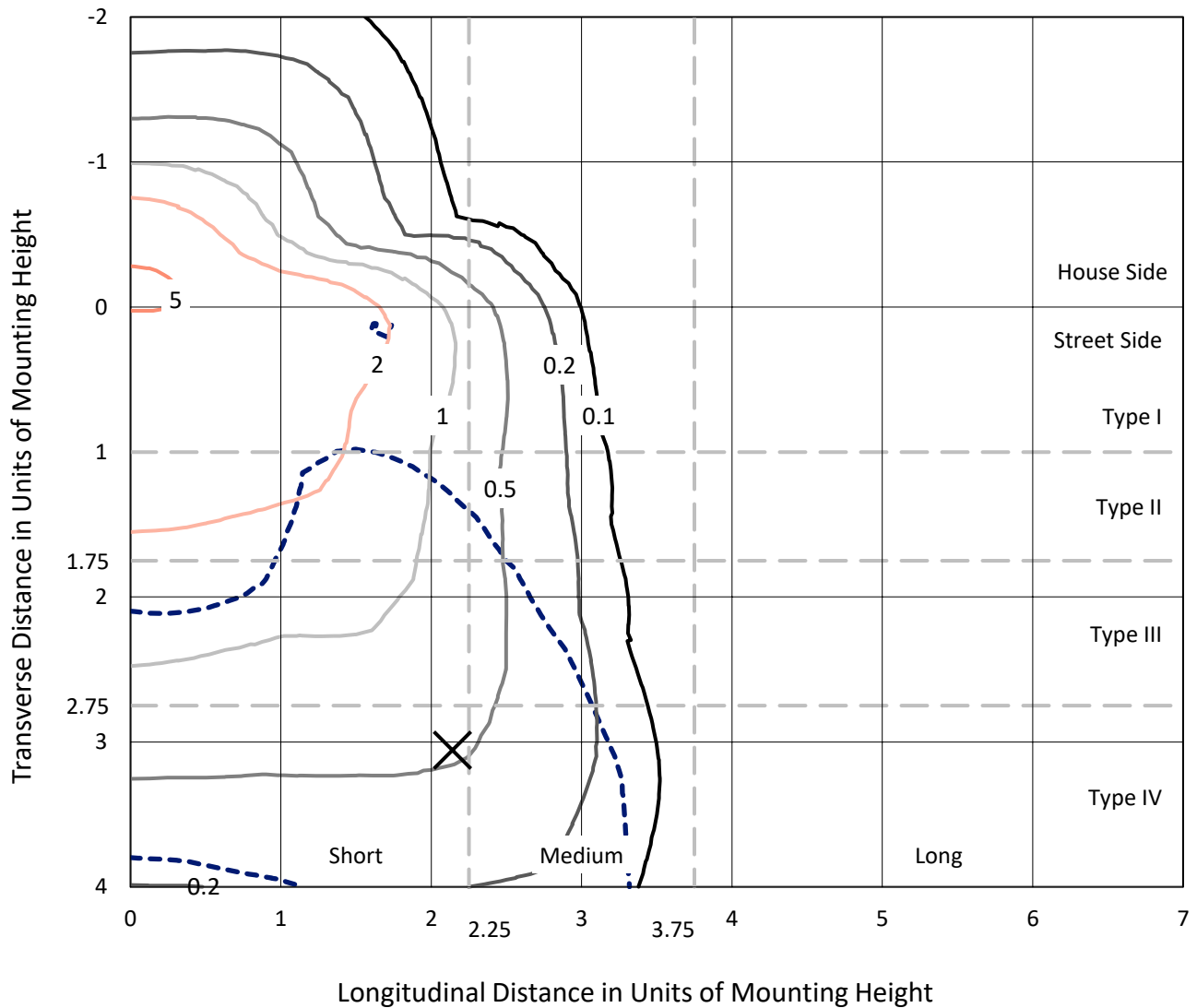
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

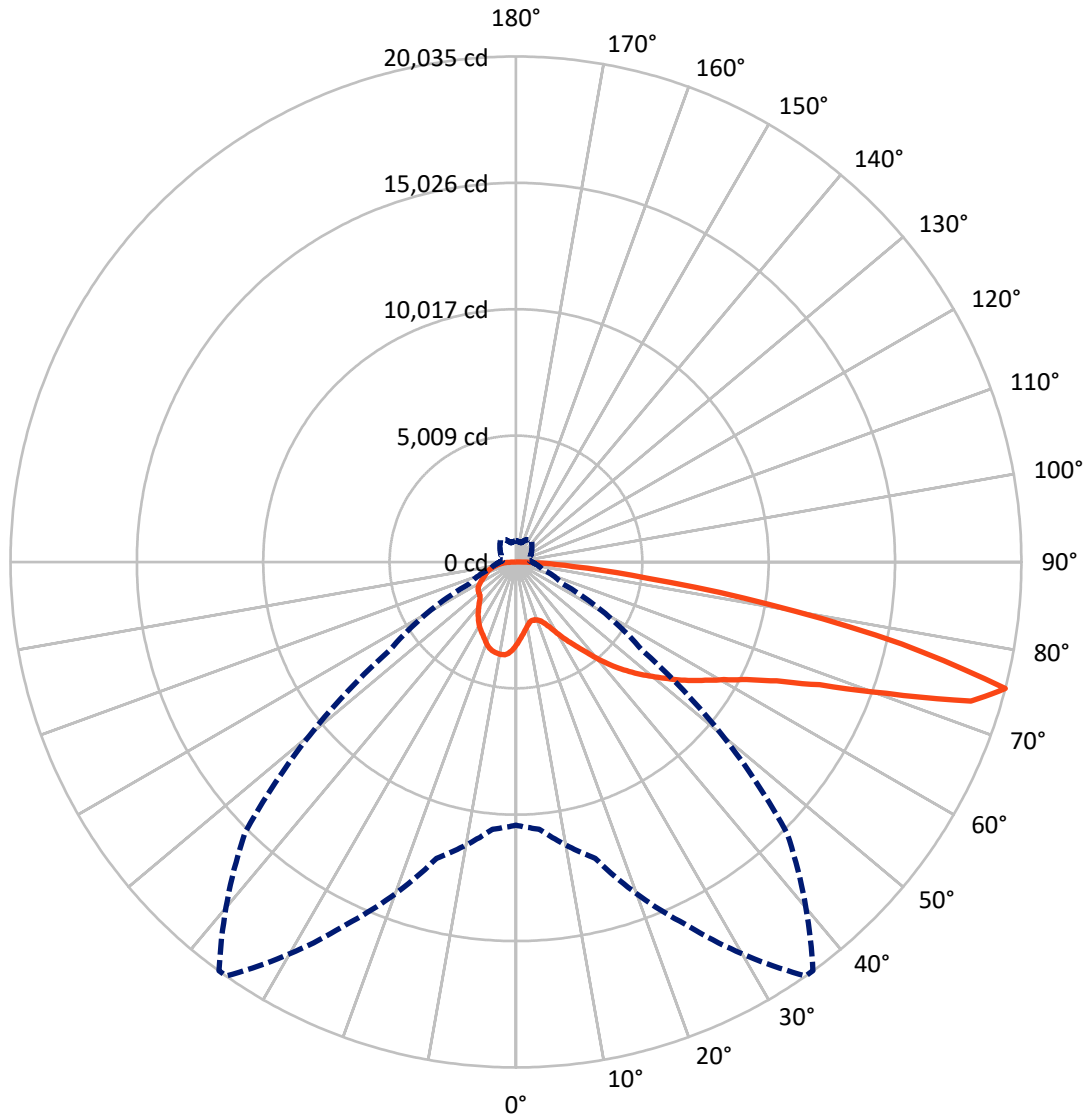
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	5849.7	0.0	5849.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18731.3	0.0	18731.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	24581.0	0.0	24581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	1.3
10°-20°	894.6	3.6
20°-30°	1502.2	6.1
30°-40°	2334.6	9.5
40°-50°	3465.2	14.1
50°-60°	4783.9	19.5
60°-70°	5804.0	23.6
70°-80°	4796.5	19.5
80°-90°	689.9	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°	24581.0	100.0
0°-180°	24581.0	100.0

Coefficient of Utilization



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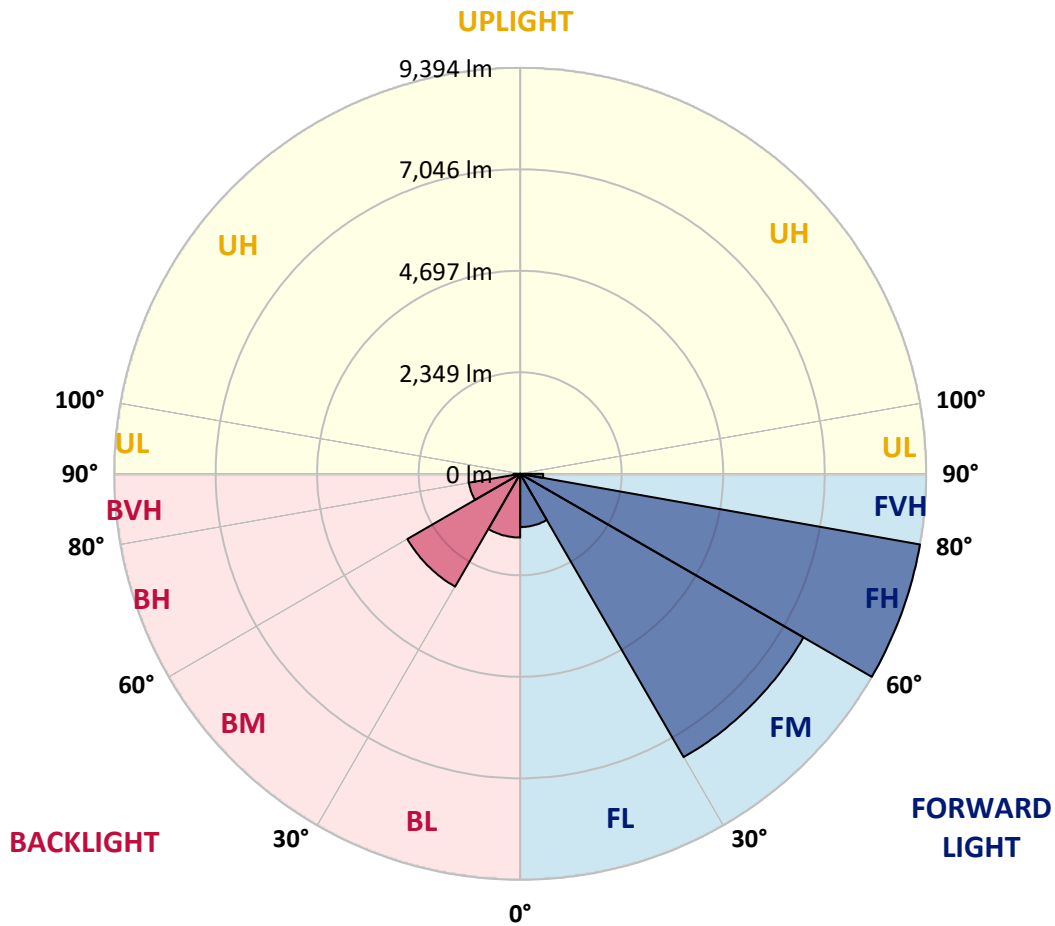
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.7	5.0			
FM (30°-60°)	7569.6	30.8			
FH (60°-80°)	9394.5	38.2			G4/12000
FVH (80°-90°)	534.5	2.2			G4/750
BL (0°-30°)	1474.2	6.0	B3/2500		
BM (30°-60°)	3014.1	12.3	B3/5000		
BH (60°-80°)	1206.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	155.3	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°	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6
2.5°	3020.4	3039.1	3047.0	3043.0	3063.0	3060.3	3088.2	3122.8	3170.6	3217.1
5°	2787.9	2807.8	2825.1	2841.1	2879.6	2891.6	2935.4	3001.8	3089.5	3178.6
7.5°	2571.3	2588.6	2615.2	2644.4	2709.5	2721.5	2794.5	2898.2	3020.4	3150.7
10°	2394.6	2411.8	2439.7	2473.0	2554.0	2568.6	2661.7	2799.9	2959.3	3124.1
12.5°	2318.8	2324.1	2340.1	2373.3	2443.7	2453.0	2555.4	2713.5	2899.5	3104.2
15°	2314.8	2325.5	2326.8	2344.1	2402.5	2406.5	2500.9	2657.7	2862.3	3100.2
17.5°	2354.7	2362.7	2350.7	2361.3	2410.5	2417.2	2491.6	2631.1	2850.4	3117.5
20°	2461.0	2467.7	2431.8	2417.2	2453.0	2458.3	2531.4	2648.4	2862.3	3153.3
22.5°	2686.9	2690.9	2603.2	2543.4	2546.1	2548.7	2612.5	2718.8	2908.8	3218.4
25°	3039.1	3036.4	2896.9	2781.3	2714.8	2700.2	2742.7	2833.1	2987.2	3304.8
27.5°	3451.0	3431.1	3291.5	3118.8	2973.9	2952.7	2943.4	2981.9	3098.8	3419.1
30°	3916.1	3897.5	3747.3	3521.4	3320.8	3286.2	3198.5	3178.6	3265.0	3574.6
32.5°	4426.4	4414.4	4235.0	3961.3	3692.8	3653.0	3505.5	3452.3	3520.1	3809.8
35°	4854.2	4843.6	4694.8	4413.1	4084.8	4035.7	3885.5	3825.7	3860.3	4111.4
37.5°	5240.9	5235.6	5108.1	4886.1	4547.3	4487.5	4318.7	4298.8	4292.1	4508.7
40°	5599.7	5586.4	5453.5	5336.6	5085.5	5031.0	4882.1	4864.9	4814.4	4997.8
42.5°	5997.0	5962.5	5769.8	5715.3	5647.6	5602.4	5513.3	5516.0	5404.4	5549.2
45°	6321.3	6301.3	6103.4	6071.5	6144.5	6125.9	6203.0	6222.9	6006.3	6127.3
47.5°	6669.4	6650.8	6483.4	6460.8	6658.8	6664.1	6936.5	6943.2	6593.7	6727.9
50°	7098.7	7072.1	6906.0	6933.9	7155.8	7175.7	7674.0	7628.9	7134.5	7337.8
52.5°	7381.7	7397.6	7361.8	7406.9	7709.9	7728.5	8399.6	8284.0	7670.1	7939.8
55°	7590.3	7622.2	7733.8	7837.5	8294.6	8313.2	9083.9	8907.2	8113.9	8497.9
57.5°	7858.7	7813.6	8022.2	8224.2	8850.1	8899.2	9749.7	9507.8	8507.2	8979.0
60°	8244.1	8212.2	8374.3	8673.3	9472.0	9550.4	10454.0	10048.7	8795.6	9360.3
62.5°	9025.5	8945.7	8971.0	9235.4	10256.0	10359.6	11248.6	10520.4	8939.1	9509.2
65°	10193.5	10056.6	9929.1	10112.5	11360.2	11462.6	12145.6	10891.2	8885.9	9220.8
67.5°	11664.5	11529.0	11372.2	11544.9	12986.7	13067.8	13252.5	11099.8	8467.4	8109.9
70°	12877.8	12827.3	13014.6	13725.6	15584.6	15587.3	14671.7	10927.0	7320.6	5749.9
72.5°	12717.0	12686.4	13673.7	15871.6	18858.9	18788.4	16015.2	9619.5	4931.3	2593.9
75°	10432.7	10630.7	12160.2	15833.1	20034.9	20025.6	15192.6	6115.3	2039.8	1075.0
77.5°	5594.4	5908.0	7894.6	11689.8	15640.4	15875.6	10681.2	2139.4	875.7	688.3
80°	1824.5	2098.2	3146.7	5951.9	10162.9	10119.1	4577.8	839.8	599.3	487.7
82.5°	774.7	806.6	1405.9	2810.5	5215.7	5134.6	1457.7	482.4	421.2	333.5
85°	303.0	338.9	620.6	1299.6	2259.0	2209.9	526.2	239.2	269.8	217.9
87.5°	99.7	120.9	221.9	445.2	703.0	677.7	128.9	82.4	116.9	99.7
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°
3275.6	0°	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6	3275.6
3284.9	2.5°	3303.5	3324.8	3350.0	3387.2	3419.1	3445.7	3473.6	3490.9	3497.5	3517.4
3290.2	5°	3327.4	3373.9	3436.4	3497.5	3557.3	3593.2	3625.1	3641.0	3655.6	3666.3
3304.8	7.5°	3367.3	3427.1	3525.4	3605.1	3655.6	3684.9	3706.1	3700.8	3706.1	3708.8
3320.8	10°	3401.8	3485.5	3602.5	3678.2	3716.8	3718.1	3712.8	3694.2	3684.9	3686.2
3344.7	12.5°	3443.0	3536.0	3662.3	3726.1	3736.7	3707.5	3684.9	3653.0	3641.0	3635.7
3380.6	15°	3498.8	3605.1	3727.4	3751.3	3724.7	3687.5	3649.0	3597.2	3570.6	3549.3
3441.7	17.5°	3566.6	3683.5	3777.9	3760.6	3703.5	3642.3	3579.9	3501.5	3447.0	3424.4
3525.4	20°	3660.9	3765.9	3816.4	3740.7	3654.3	3561.3	3455.0	3359.3	3308.8	3286.2
3631.7	22.5°	3775.2	3876.2	3853.6	3706.1	3583.9	3435.0	3302.2	3231.7	3206.5	3190.5
3768.6	25°	3912.1	3998.5	3880.2	3655.6	3468.3	3267.6	3165.3	3142.7	3130.7	3118.8
3936.0	27.5°	4090.2	4136.7	3900.1	3581.2	3287.5	3089.5	3052.3	3056.3	3052.3	3032.4
4168.6	30°	4325.4	4316.1	3918.7	3460.3	3080.2	2928.8	2931.4	2948.7	2951.3	2938.1
4492.8	32.5°	4635.0	4540.6	3928.0	3303.5	2882.2	2787.9	2790.6	2809.2	2822.5	2799.9
4916.7	35°	5009.7	4802.4	3913.4	3106.8	2729.4	2653.7	2633.8	2639.1	2643.1	2621.8
5431.0	37.5°	5446.9	5096.1	3848.3	2888.9	2603.2	2522.1	2479.6	2443.7	2422.5	2402.5
6013.0	40°	5926.6	5416.3	3728.7	2676.3	2462.3	2382.6	2318.8	2251.1	2179.3	2152.7
6629.6	42.5°	6428.9	5745.9	3583.9	2473.0	2300.2	2235.1	2167.3	2069.0	1961.4	1906.9
7270.1	45°	6949.8	6083.4	3441.7	2272.3	2134.1	2106.2	2027.8	1909.5	1792.6	1723.5
7911.9	47.5°	7460.1	6402.3	3233.1	2070.3	1978.6	2009.2	1948.1	1839.1	1708.9	1599.9
8548.4	50°	7947.8	6701.3	2891.6	1865.7	1852.4	1980.0	1921.5	1764.7	1615.9	1476.3
9173.0	52.5°	8431.5	6943.2	2454.4	1679.7	1784.6	1972.0	1886.9	1714.2	1532.1	1386.0
9760.3	55°	8842.1	7068.1	2033.1	1520.2	1686.3	1904.2	1845.8	1654.4	1413.9	1258.4
10162.9	57.5°	9076.0	6967.1	1682.3	1363.4	1550.8	1792.6	1775.3	1526.8	1273.0	1153.4
10241.4	60°	8975.0	6557.8	1395.3	1226.5	1421.9	1671.7	1653.1	1400.6	1165.4	1052.4
9821.4	62.5°	8418.2	5777.8	1168.0	1106.9	1304.9	1548.1	1530.8	1303.6	1083.0	974.0
8706.5	65°	7296.6	4700.1	991.3	1007.3	1186.7	1399.3	1424.5	1222.5	1017.9	911.6
6735.9	67.5°	5565.2	3404.5	853.1	920.9	1071.0	1253.1	1326.2	1164.1	963.4	862.4
3897.5	70°	3171.9	1933.5	736.2	837.2	968.7	1117.6	1250.4	1117.6	904.9	821.2
1460.4	72.5°	1202.6	887.7	636.5	753.5	870.4	1003.3	1166.7	1044.5	837.2	774.7
754.8	75°	641.8	540.8	535.5	655.1	757.4	891.6	1061.7	972.7	786.7	818.6
522.2	77.5°	437.2	382.7	447.8	560.8	633.9	768.1	950.1	863.7	681.7	679.0
361.4	80°	303.0	271.1	364.1	451.8	490.3	645.8	829.2	741.5	555.5	518.2
223.2	82.5°	182.1	176.7	272.4	337.5	346.8	498.3	687.0	621.9	454.5	396.0
132.9	85°	99.7	105.0	174.1	198.0	202.0	348.2	538.2	481.0	349.5	293.7
47.8	87.5°	27.9	35.9	63.8	78.4	97.0	180.7	320.2	285.7	175.4	122.3
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>
3275.6
3516.1
3668.9
3712.8
3688.9
3633.0
3556.0
3425.7
3283.6
3193.2
3118.8
3036.4
2944.7
2810.5
2636.4
2415.8
2164.7
1913.5
1718.2
1588.0
1464.4
1370.0
1245.1
1137.5
1036.5
956.8
894.3
846.5
810.6
764.1
<i>845.1</i>
625.9
495.7
398.7
296.3
122.3
0.0

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