

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: P942149

Luminaire Tested: **GALN-SB6A-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942149
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-SB6A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26886 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

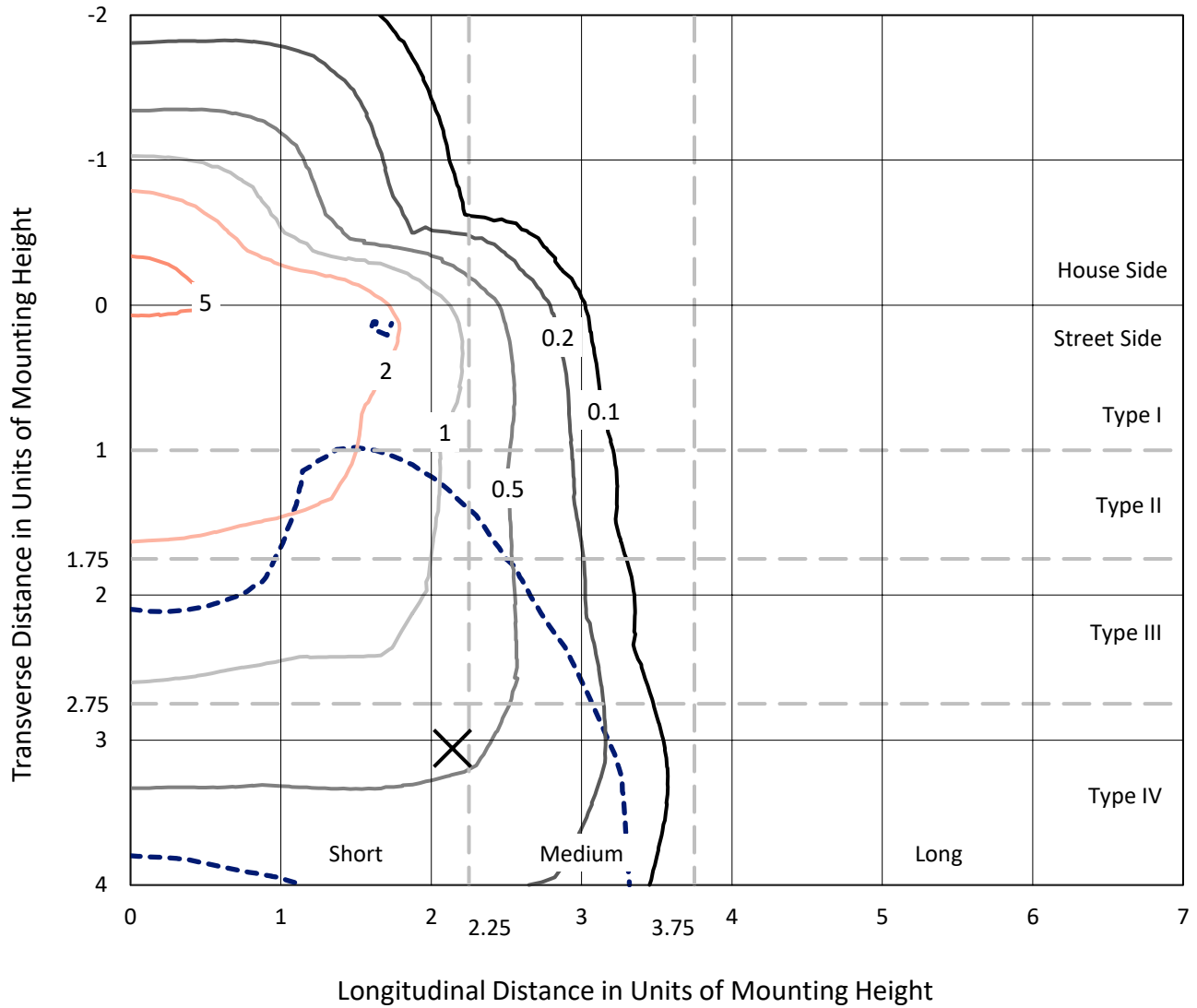
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

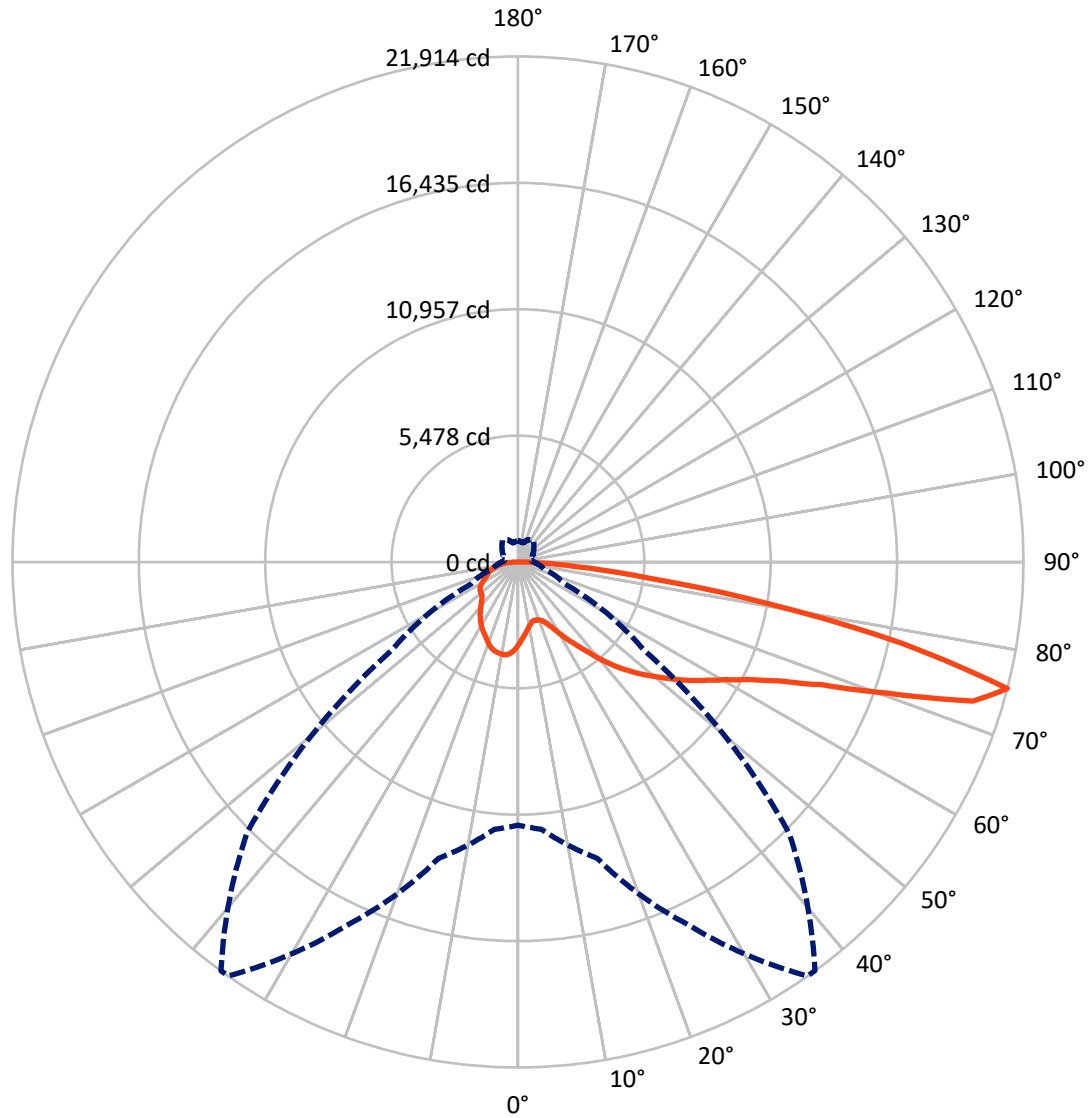
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	6398.2	0.0	6398.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20487.8	0.0	20487.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	26886.0	0.0	26886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.2	1.3
10°-20°	978.4	3.6
20°-30°	1643.1	6.1
30°-40°	2553.5	9.5
40°-50°	3790.1	14.1
50°-60°	5232.5	19.5
60°-70°	6348.2	23.6
70°-80°	5246.3	19.5
80°-90°	754.6	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°	26886.0	100.0
0°-180°	26886.0	100.0

Coefficient of Utilization



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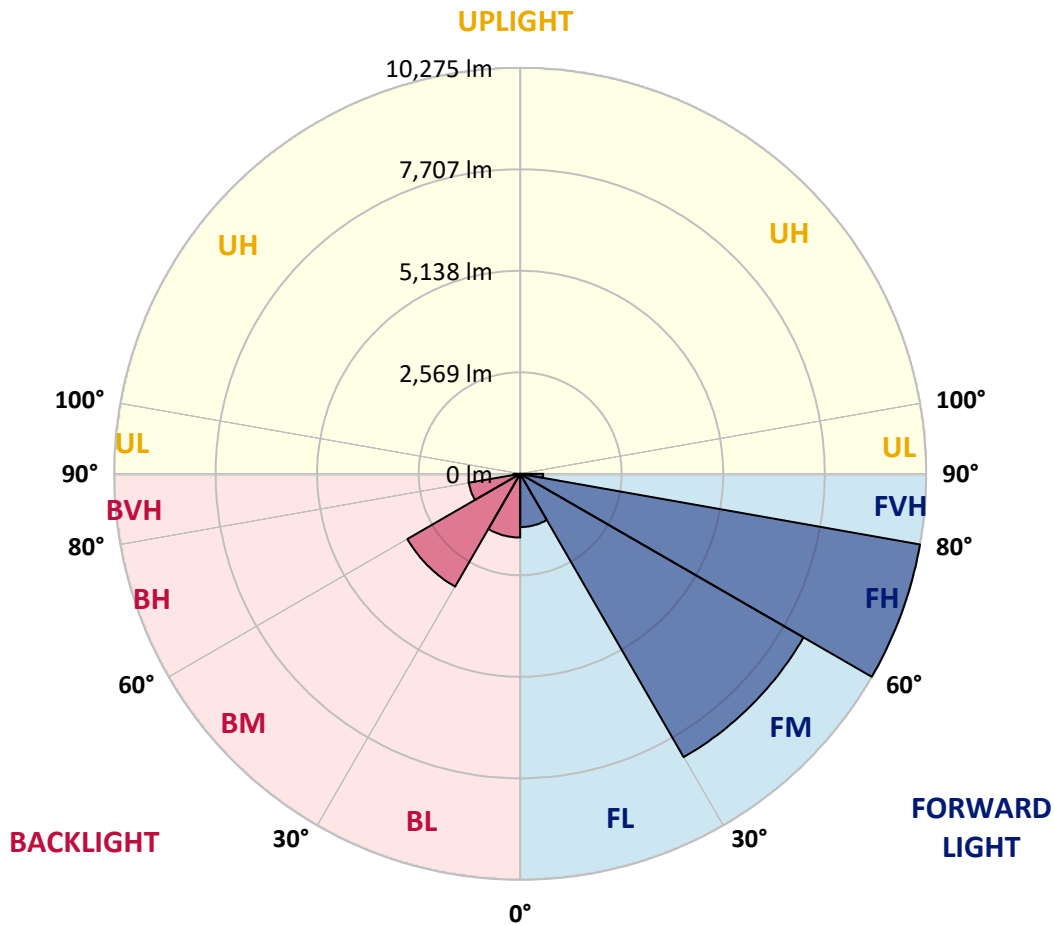
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.3	5.0			
FM (30°-60°)	8279.4	30.8			
FH (60°-80°)	10275.4	38.2			G4/12000
FVH (80°-90°)	584.7	2.2			G4/750
BL (0°-30°)	1612.4	6.0	B3/2500		
BM (30°-60°)	3296.7	12.3	B3/5000		
BH (60°-80°)	1319.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	169.9	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°	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7
2.5°	3303.7	3324.0	3332.7	3328.4	3350.2	3347.3	3377.8	3415.6	3467.9	3518.8
5°	3049.3	3071.1	3090.0	3107.5	3149.6	3162.7	3210.7	3283.3	3379.3	3476.6
7.5°	2812.4	2831.3	2860.4	2892.4	2963.6	2976.7	3056.6	3170.0	3303.7	3446.1
10°	2619.1	2638.0	2668.5	2704.9	2793.5	2809.5	2911.2	3062.4	3236.8	3417.0
12.5°	2536.3	2542.1	2559.5	2595.9	2672.9	2683.1	2795.0	2967.9	3171.4	3395.2
15°	2531.9	2543.5	2545.0	2563.9	2627.8	2632.2	2735.4	2906.9	3130.7	3390.9
17.5°	2575.5	2584.2	2571.1	2582.8	2636.5	2643.8	2725.2	2877.8	3117.6	3409.8
20°	2691.8	2699.0	2659.8	2643.8	2683.1	2688.9	2768.8	2896.7	3130.7	3449.0
22.5°	2938.9	2943.2	2847.3	2781.9	2784.8	2787.7	2857.5	2973.7	3181.6	3520.2
25°	3324.0	3321.1	3168.5	3042.1	2969.4	2953.4	2999.9	3098.7	3267.3	3614.7
27.5°	3774.6	3752.8	3600.2	3411.2	3252.8	3229.6	3219.4	3261.5	3389.4	3739.7
30°	4283.3	4263.0	4098.7	3851.6	3632.2	3594.4	3498.4	3476.6	3571.1	3909.8
32.5°	4841.4	4828.3	4632.1	4332.7	4039.1	3995.5	3834.2	3776.0	3850.2	4167.0
35°	5309.4	5297.8	5135.0	4826.9	4467.9	4414.1	4249.9	4184.5	4222.3	4497.0
37.5°	5732.4	5726.6	5587.0	5344.3	4973.7	4908.3	4723.7	4701.9	4694.6	4931.5
40°	6124.8	6110.3	5964.9	5837.0	5562.3	5502.7	5340.0	5321.1	5265.8	5466.4
42.5°	6559.4	6521.6	6310.9	6251.3	6177.1	6127.7	6030.3	6033.2	5911.2	6069.6
45°	6914.0	6892.2	6675.7	6640.8	6720.7	6700.4	6784.7	6806.5	6569.6	6701.8
47.5°	7294.8	7274.5	7091.4	7066.6	7283.2	7289.0	7587.0	7594.2	7212.0	7358.8
50°	7764.3	7735.2	7553.6	7584.1	7826.8	7848.6	8393.6	8344.2	7803.5	8025.9
52.5°	8073.9	8091.3	8052.1	8101.5	8432.9	8453.2	9187.2	9060.8	8389.3	8684.3
55°	8302.1	8337.0	8459.0	8572.4	9072.4	9092.8	9935.7	9742.4	8874.7	9294.8
57.5°	8595.7	8546.3	8774.4	8995.4	9679.9	9733.7	10663.9	10399.4	9305.0	9820.9
60°	9017.2	8982.3	9159.6	9486.6	10360.2	10445.9	11434.3	10990.9	9620.4	10238.1
62.5°	9871.8	9784.6	9812.2	10101.4	11217.7	11331.1	12303.4	11506.9	9777.3	10400.9
65°	11149.4	10999.7	10860.1	11060.7	12425.5	12537.4	13284.5	11912.4	9719.2	10085.5
67.5°	12758.3	12610.1	12438.6	12627.5	14204.5	14293.2	14495.2	12140.6	9261.4	8870.4
70°	14085.3	14030.1	14235.0	15012.6	17046.0	17048.9	16047.5	11951.7	8007.0	6289.1
72.5°	13909.5	13876.0	14955.9	17359.9	20627.3	20550.3	17516.9	10521.5	5393.7	2837.1
75°	11411.0	11627.6	13300.5	17317.8	21913.6	21903.4	16617.2	6688.8	2231.0	1175.8
77.5°	6119.0	6462.0	8634.9	12786.0	17107.0	17364.3	11682.8	2340.0	957.8	752.9
80°	1995.6	2295.0	3441.8	6510.0	11115.9	11068.0	5007.1	918.6	655.5	533.4
82.5°	847.4	882.2	1537.7	3074.0	5704.8	5616.1	1594.4	527.6	460.7	364.8
85°	331.4	370.6	678.8	1421.5	2470.9	2417.1	575.6	261.6	295.0	238.4
87.5°	109.0	132.3	242.7	486.9	768.9	741.3	141.0	90.1	127.9	109.0
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°
3582.7	0°	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7	3582.7
3592.9	2.5°	3613.3	3636.5	3664.1	3704.8	3739.7	3768.8	3799.3	3818.2	3825.5	3847.3
3598.7	5°	3639.4	3690.3	3758.6	3825.5	3890.9	3930.1	3965.0	3982.4	3998.4	4010.1
3614.7	7.5°	3683.0	3748.4	3856.0	3943.2	3998.4	4030.4	4053.7	4047.8	4053.7	4056.6
3632.2	10°	3720.8	3812.4	3940.3	4023.1	4065.3	4066.7	4060.9	4040.6	4030.4	4031.9
3658.3	12.5°	3765.9	3867.6	4005.7	4075.5	4087.1	4055.1	4030.4	3995.5	3982.4	3976.6
3697.6	15°	3826.9	3943.2	4076.9	4103.1	4074.0	4033.3	3991.2	3934.5	3905.4	3882.2
3764.4	17.5°	3901.0	4028.9	4132.1	4113.2	4050.8	3983.9	3915.6	3829.8	3770.2	3745.5
3856.0	20°	4004.2	4119.1	4174.3	4091.4	3997.0	3895.2	3779.0	3674.3	3619.1	3594.4
3972.3	22.5°	4129.2	4239.7	4215.0	4053.7	3919.9	3757.2	3611.8	3534.8	3507.2	3489.7
4122.0	25°	4278.9	4373.4	4244.1	3998.4	3793.5	3574.0	3462.1	3437.4	3424.3	3411.2
4305.1	27.5°	4473.7	4524.6	4265.9	3917.0	3595.8	3379.3	3338.6	3342.9	3338.6	3316.8
4559.5	30°	4731.0	4720.8	4286.2	3784.8	3369.1	3203.4	3206.3	3225.2	3228.1	3213.6
4914.1	32.5°	5069.6	4966.4	4296.4	3613.3	3152.5	3049.3	3052.2	3072.6	3087.1	3062.4
5377.7	35°	5479.5	5252.7	4280.4	3398.2	2985.4	2902.5	2880.7	2886.5	2890.9	2867.6
5940.2	37.5°	5957.7	5574.0	4209.2	3159.8	2847.3	2758.6	2712.1	2672.9	2649.6	2627.8
6576.8	40°	6482.4	5924.2	4078.4	2927.2	2693.2	2606.0	2536.3	2462.1	2383.6	2354.6
7251.2	42.5°	7031.8	6284.7	3919.9	2704.9	2515.9	2444.7	2370.6	2263.0	2145.3	2085.7
7951.8	45°	7601.5	6653.9	3764.4	2485.4	2334.2	2303.7	2218.0	2088.6	1960.7	1885.1
8653.8	47.5°	8159.6	7002.7	3536.2	2264.5	2164.2	2197.6	2130.8	2011.6	1869.1	1749.9
9350.0	50°	8693.1	7329.7	3162.7	2040.6	2026.1	2165.6	2101.7	1930.2	1767.4	1614.8
10033.1	52.5°	9222.1	7594.2	2684.5	1837.2	1952.0	2156.9	2063.9	1874.9	1675.8	1515.9
10675.6	55°	9671.2	7730.9	2223.8	1662.7	1844.4	2082.8	2018.8	1809.5	1546.5	1376.4
11115.9	57.5°	9927.0	7620.4	1840.1	1491.2	1696.2	1960.7	1941.8	1670.0	1392.4	1261.6
11201.7	60°	9816.6	7172.7	1526.1	1341.5	1555.2	1828.4	1808.1	1531.9	1274.7	1151.1
10742.4	62.5°	9207.6	6319.6	1277.6	1210.7	1427.3	1693.3	1674.4	1425.8	1184.6	1065.4
9523.0	65°	7980.9	5140.8	1084.3	1101.7	1297.9	1530.5	1558.1	1337.2	1113.3	997.1
7367.5	67.5°	6087.0	3723.7	933.1	1007.2	1171.5	1370.6	1450.5	1273.2	1053.7	943.3
4263.0	70°	3469.4	2114.8	805.2	915.7	1059.6	1222.3	1367.7	1222.3	989.8	898.2
1597.3	72.5°	1315.4	970.9	696.2	824.1	952.0	1097.4	1276.1	1142.4	915.7	847.4
825.6	75°	702.0	591.6	585.7	716.5	828.5	975.3	1161.3	1063.9	860.4	895.3
571.2	77.5°	478.2	418.6	489.8	613.4	693.3	840.1	1039.2	944.7	745.6	742.7
395.3	80°	331.4	296.5	398.2	494.2	536.3	706.4	906.9	811.0	607.5	566.8
244.2	82.5°	199.1	193.3	298.0	369.2	379.3	545.0	751.4	680.2	497.1	433.1
145.3	85°	109.0	114.8	190.4	216.6	220.9	380.8	588.6	526.1	382.3	321.2
52.3	87.5°	30.5	39.2	69.8	85.8	106.1	197.7	350.3	312.5	191.9	133.7
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>
3582.7
3845.8
4013.0
4060.9
4034.8
3973.7
3889.4
3747.0
3591.5
3492.6
3411.2
3321.1
3220.8
3074.0
2883.6
2642.4
2367.7
2093.0
1879.3
1736.9
1601.7
1498.5
1361.9
1244.1
1133.7
1046.5
978.2
925.8
886.6
835.7
924.4
684.6
542.1
436.0
324.1
133.7
0.0

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