

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: P942422

Luminaire Tested: **GALN-SB6B-935-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6B-935-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23547 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

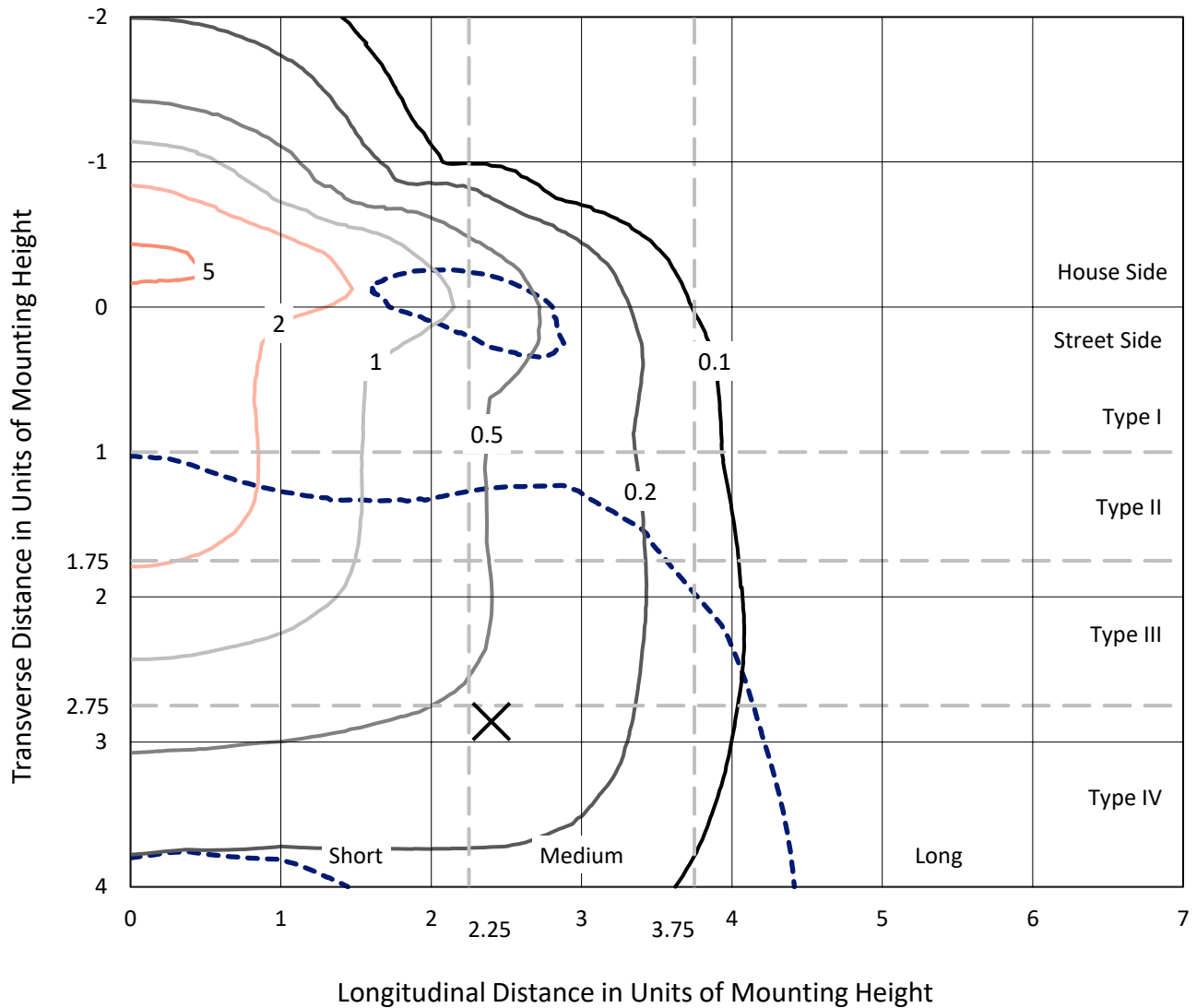
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

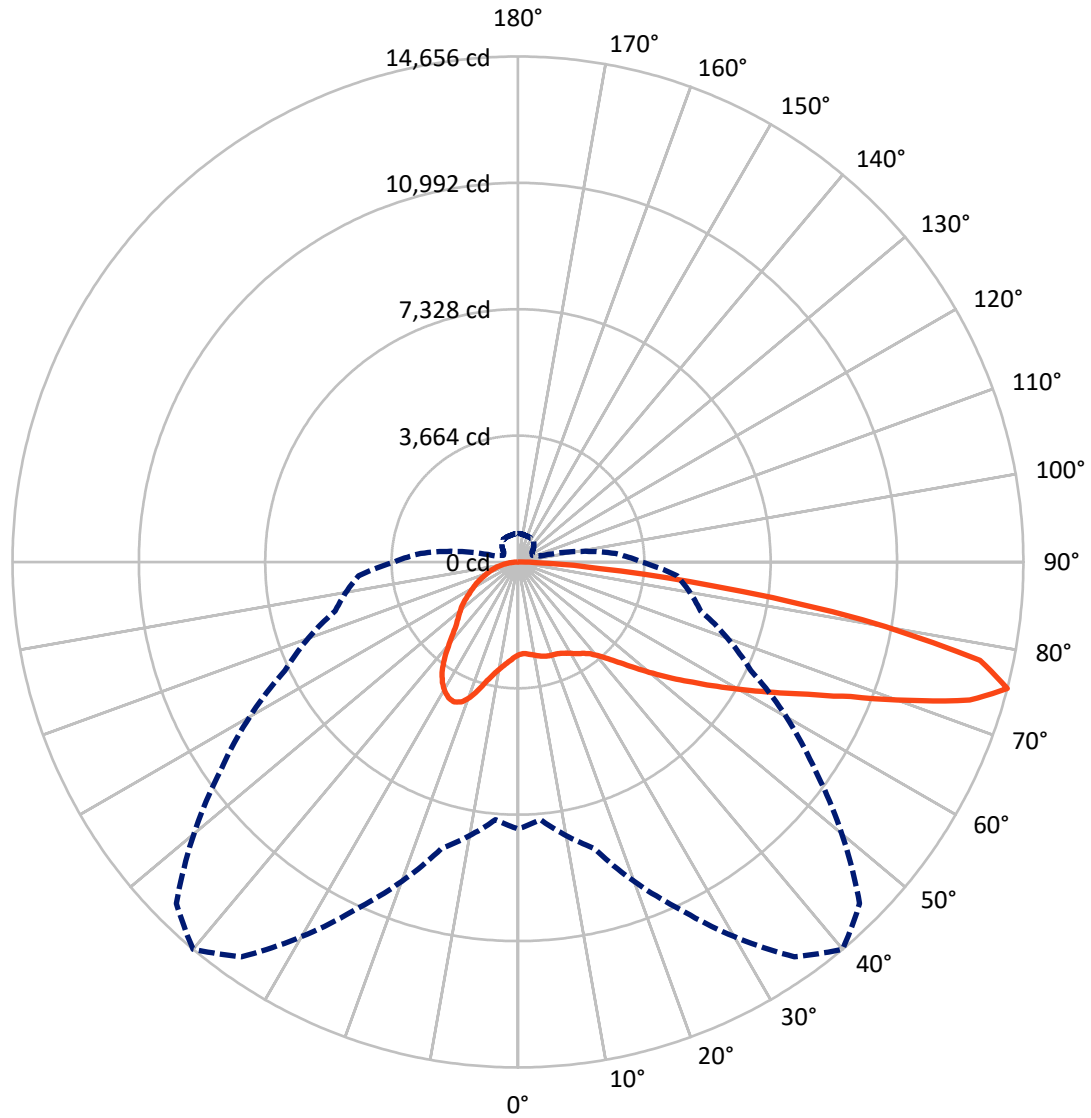
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7295.7	0.0	7295.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16251.4	0.0	16251.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	23547.0	0.0	23547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.8	1.1
10°-20°	902.4	3.8
20°-30°	1647.7	7.0
30°-40°	2336.9	9.9
40°-50°	3155.5	13.4
50°-60°	4245.1	18.0
60°-70°	5387.9	22.9
70°-80°	4889.9	20.8
80°-90°	712.8	3.0
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°	23547.0	100.0
0°-180°	23547.0	100.0

Coefficient of Utilization



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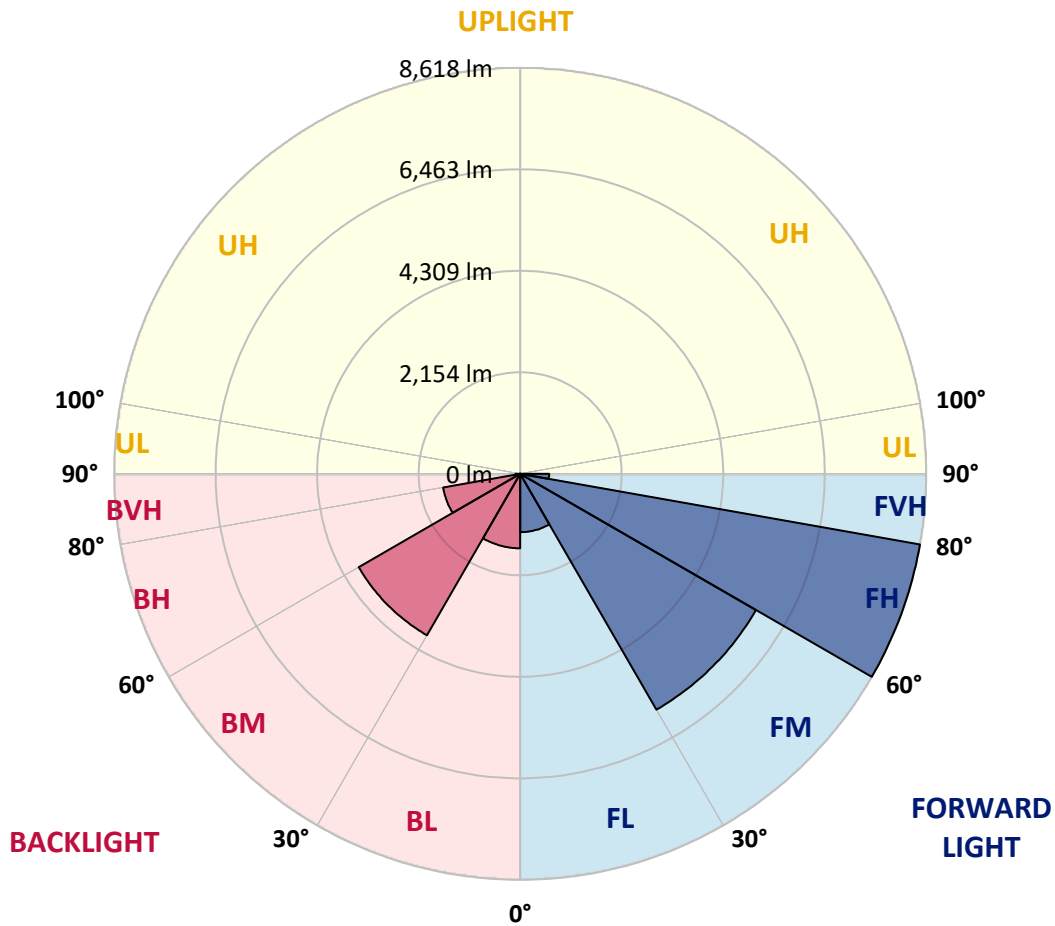
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.6	5.3			
FM (30°-60°)	5780.3	24.5			
FH (60°-80°)	8617.8	36.6			G4/12000
FVH (80°-90°)	614.7	2.6			G4/750
BL (0°-30°)	1580.3	6.7	B3/2500		
BM (30°-60°)	3957.2	16.8	B3/5000		
BH (60°-80°)	1660.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	98.1	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6
2.5°	2651.4	2666.4	2662.7	2657.7	2657.7	2658.9	2657.7	2666.4	2675.1	2683.9
5°	2678.9	2693.9	2686.4	2680.1	2675.1	2673.9	2670.2	2668.9	2673.9	2685.1
7.5°	2732.6	2747.6	2736.3	2725.1	2715.1	2710.1	2705.1	2697.6	2693.9	2700.1
10°	2792.5	2807.5	2793.8	2773.8	2757.6	2751.3	2746.3	2738.8	2733.8	2737.6
12.5°	2852.5	2867.5	2848.7	2821.3	2800.0	2796.3	2790.0	2787.5	2786.3	2785.0
15°	2908.7	2921.2	2897.5	2865.0	2842.5	2836.3	2830.0	2833.8	2840.0	2847.5
17.5°	2952.4	2964.9	2929.9	2887.5	2866.2	2863.7	2860.0	2872.5	2890.0	2908.7
20°	2992.4	3004.9	2959.9	2902.4	2877.5	2877.5	2878.7	2904.9	2929.9	2957.4
22.5°	3048.6	3058.6	3003.6	2924.9	2888.7	2891.2	2901.2	2927.4	2958.6	2996.1
25°	3132.2	3139.7	3072.3	2967.4	2926.2	2933.7	2942.4	2954.9	2984.9	3028.6
27.5°	3267.1	3273.4	3184.7	3042.3	2979.9	2992.4	3004.9	2996.1	3009.9	3047.3
30°	3457.0	3460.7	3348.3	3159.7	3071.0	3077.3	3079.8	3043.6	3017.3	3047.3
32.5°	3681.8	3680.5	3546.9	3302.1	3174.7	3168.5	3147.2	3076.0	3014.8	3041.1
35°	4030.2	4016.5	3844.1	3501.9	3292.1	3253.4	3203.4	3112.3	3027.3	3034.8
37.5°	4607.2	4564.7	4326.2	3829.1	3466.9	3368.3	3294.6	3171.0	3054.8	3032.3
40°	5257.9	5204.2	4941.9	4277.5	3729.2	3570.6	3452.0	3254.6	3099.8	3043.6
42.5°	6029.7	5953.5	5671.3	4805.8	4061.4	3831.6	3653.0	3360.8	3166.0	3079.8
45°	6977.6	6876.4	6476.8	5401.5	4479.8	4173.8	3935.3	3521.9	3267.1	3149.7
47.5°	7935.5	7960.5	7392.2	6083.4	4981.9	4596.0	4288.7	3764.2	3414.5	3262.1
50°	8953.4	8970.9	8302.7	6839.0	5551.4	5073.0	4685.9	4035.2	3619.3	3422.0
52.5°	9747.7	9750.2	9129.5	7629.5	6144.6	5597.6	5114.3	4344.9	3856.6	3634.3
55°	10244.7	10238.5	9709.0	8377.6	6826.5	6148.3	5588.8	4697.1	4146.4	3884.1
57.5°	10605.7	10586.9	10108.6	9020.8	7553.4	6799.0	6125.9	5096.8	4488.6	4181.3
60°	10743.0	10731.8	10379.6	9576.6	8317.7	7518.4	6745.3	5543.9	4877.0	4532.3
62.5°	10795.5	10816.7	10645.6	10114.9	9135.7	8315.2	7426.0	6078.4	5314.1	4929.4
65°	10980.3	11019.1	10984.1	10819.2	10059.9	9248.1	8328.9	6714.1	5791.2	5355.3
67.5°	11346.3	11385.0	11400.0	11662.2	11188.9	10410.8	9455.4	7505.9	6349.4	5797.4
70°	11337.5	11326.3	11591.1	12332.9	12602.7	12020.7	10974.1	8480.0	7015.1	6164.6
72.5°	10319.7	10229.7	10855.4	12325.4	13779.1	13701.7	12828.7	9736.4	7589.6	6209.5
75°	7741.9	7502.1	8607.4	11107.7	13975.2	14655.9	14007.7	10515.7	7453.4	5486.4
77.5°	3310.8	3069.8	4372.4	8222.8	12507.7	13700.4	12926.1	9174.4	5949.8	3628.1
80°	866.7	865.5	1321.3	3728.0	8506.3	10117.3	8875.9	5924.8	3399.5	1296.4
82.5°	358.4	349.7	485.8	1450.0	4156.3	5677.5	4633.4	2642.7	1227.7	350.9
85°	133.6	132.4	236.0	500.8	1466.2	2341.7	1694.8	675.7	306.0	171.1
87.5°	37.5	36.2	51.2	173.6	357.2	542.0	289.7	111.2	86.2	67.4
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°
2692.6	0°	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6	2692.6
2697.6	2.5°	2701.4	2707.6	2718.9	2727.6	2738.8	2751.3	2768.8	2780.1	2791.3	2798.8
2703.9	5°	2712.6	2726.4	2755.1	2783.8	2817.5	2848.7	2885.0	2911.2	2932.4	2938.7
2726.4	7.5°	2737.6	2760.1	2808.8	2857.5	2911.2	2962.4	3014.8	3059.8	3096.0	3109.8
2766.3	10°	2781.3	2811.3	2880.0	2948.7	3019.8	3098.5	3166.0	3230.9	3282.1	3303.3
2813.8	12.5°	2836.3	2873.7	2963.6	3058.6	3157.2	3265.9	3353.3	3433.2	3496.9	3525.6
2880.0	15°	2907.4	2956.1	3071.0	3198.4	3343.3	3494.4	3605.6	3694.2	3765.4	3800.4
2948.7	17.5°	2984.9	3049.8	3194.7	3387.0	3594.3	3792.9	3922.8	3987.7	4061.4	4095.1
3012.3	20°	3059.8	3139.7	3347.1	3626.8	3902.8	4113.9	4218.8	4236.3	4241.3	4245.0
3072.3	22.5°	3137.2	3244.6	3538.1	3929.0	4225.0	4371.2	4386.1	4311.2	4206.3	4157.6
3131.0	25°	3222.2	3364.5	3787.9	4262.5	4502.3	4519.8	4404.9	4222.5	4024.0	3932.8
3178.5	27.5°	3304.6	3503.2	4087.7	4581.0	4702.1	4548.5	4301.2	4042.7	3802.9	3706.7
3212.2	30°	3387.0	3661.8	4418.6	4859.5	4793.3	4477.3	4137.6	3849.1	3608.1	3506.9
3242.1	32.5°	3470.7	3846.6	4799.5	5060.5	4777.0	4326.2	3934.0	3631.8	3419.5	3313.3
3268.4	35°	3565.6	4073.9	5160.5	5170.5	4668.4	4103.9	3665.5	3372.0	3187.2	3102.3
3299.6	37.5°	3689.3	4362.4	5478.9	5197.9	4478.6	3777.9	3332.1	3064.8	2912.4	2873.7
3345.8	40°	3842.9	4709.6	5722.5	5154.2	4197.6	3382.0	2967.4	2753.8	2667.7	2676.4
3408.3	42.5°	4042.7	5098.0	5893.6	5041.8	3806.7	2973.6	2647.7	2552.8	2594.0	2628.9
3501.9	45°	4302.5	5501.4	5999.7	4850.7	3364.5	2627.7	2459.1	2481.6	2512.8	2516.5
3653.0	47.5°	4634.7	5909.8	6069.7	4562.2	2913.7	2384.2	2339.2	2344.2	2337.9	2311.7
3879.1	50°	5049.3	6307.0	6132.1	4180.1	2530.3	2231.8	2171.8	2154.4	2068.2	1983.3
4180.1	52.5°	5521.4	6671.6	6158.3	3705.5	2231.8	2104.4	2007.0	1897.1	1736.0	1709.7
4558.5	55°	6045.9	7008.8	6090.9	3122.3	1980.8	1940.8	1793.4	1661.0	1643.6	1621.1
5056.8	57.5°	6672.9	7372.3	5953.5	2471.6	1723.5	1749.7	1606.1	1621.1	1589.9	1554.9
5697.5	60°	7358.5	7748.2	5712.5	1878.3	1457.5	1511.2	1557.4	1556.1	1547.4	1518.7
6373.1	62.5°	7975.5	7995.5	5237.9	1438.7	1223.9	1326.3	1452.5	1451.2	1443.7	1427.5
7078.8	65°	8342.7	7958.0	4446.1	1132.8	1031.6	1174.0	1310.1	1320.1	1321.3	1320.1
7609.6	67.5°	8277.7	7519.6	3359.5	901.7	873.0	1019.1	1169.0	1182.7	1192.7	1195.2
7677.0	70°	7543.4	6556.7	2190.6	719.4	731.9	883.0	1035.3	1049.1	1057.8	1067.8
6661.6	72.5°	5879.8	4820.8	1253.9	582.0	608.2	765.6	903.0	919.2	924.2	942.9
4635.9	75°	3583.1	2835.0	676.9	458.3	499.6	654.4	771.8	790.6	799.3	821.8
2276.7	77.5°	1703.5	1227.7	385.9	357.2	402.1	534.5	651.9	673.2	649.4	661.9
628.2	80°	575.7	455.8	243.5	272.3	307.2	417.1	522.0	543.3	493.3	490.8
208.6	82.5°	201.1	184.8	154.9	181.1	198.6	298.5	394.7	422.1	367.2	365.9
93.7	85°	78.7	74.9	86.2	98.7	118.6	183.6	259.8	273.5	226.1	182.3
27.5	87.5°	16.2	17.5	21.2	22.5	36.2	63.7	93.7	114.9	91.2	77.4
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>
2692.6
2793.8
2941.2
3111.0
3304.6
3525.6
3797.9
4093.9
4255.0
4171.3
3946.5
3718.0
3518.2
3327.1
3121.0
2901.2
2706.4
2661.4
2541.5
2331.7
1994.5
1718.5
1624.8
1548.6
1508.7
1421.2
1320.1
1197.7
1072.8
950.4
824.3
651.9
485.8
348.4
179.8
71.2
0.0

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