

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: P941387

Luminaire Tested: **GALN-SB4D-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24841 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

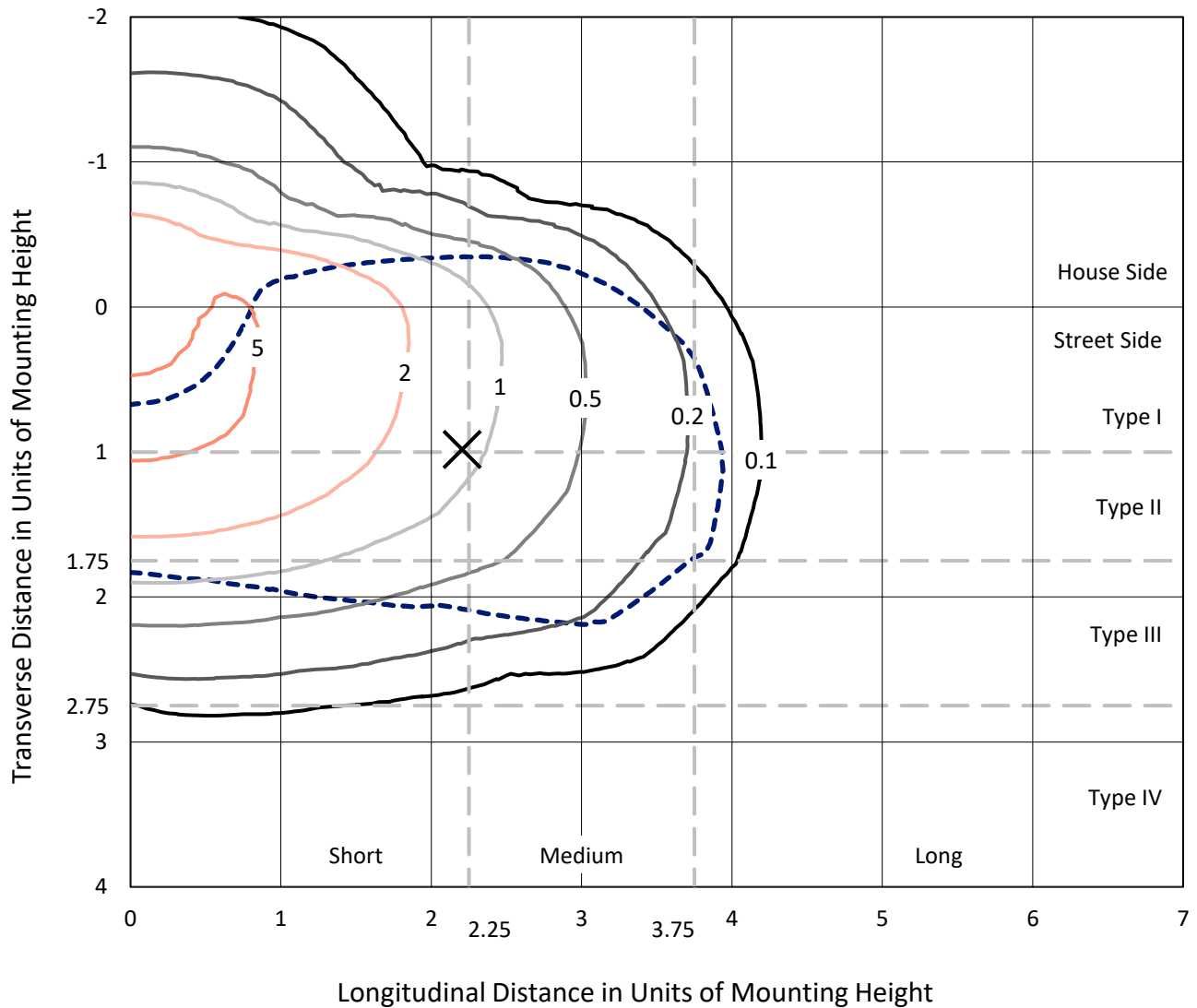
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

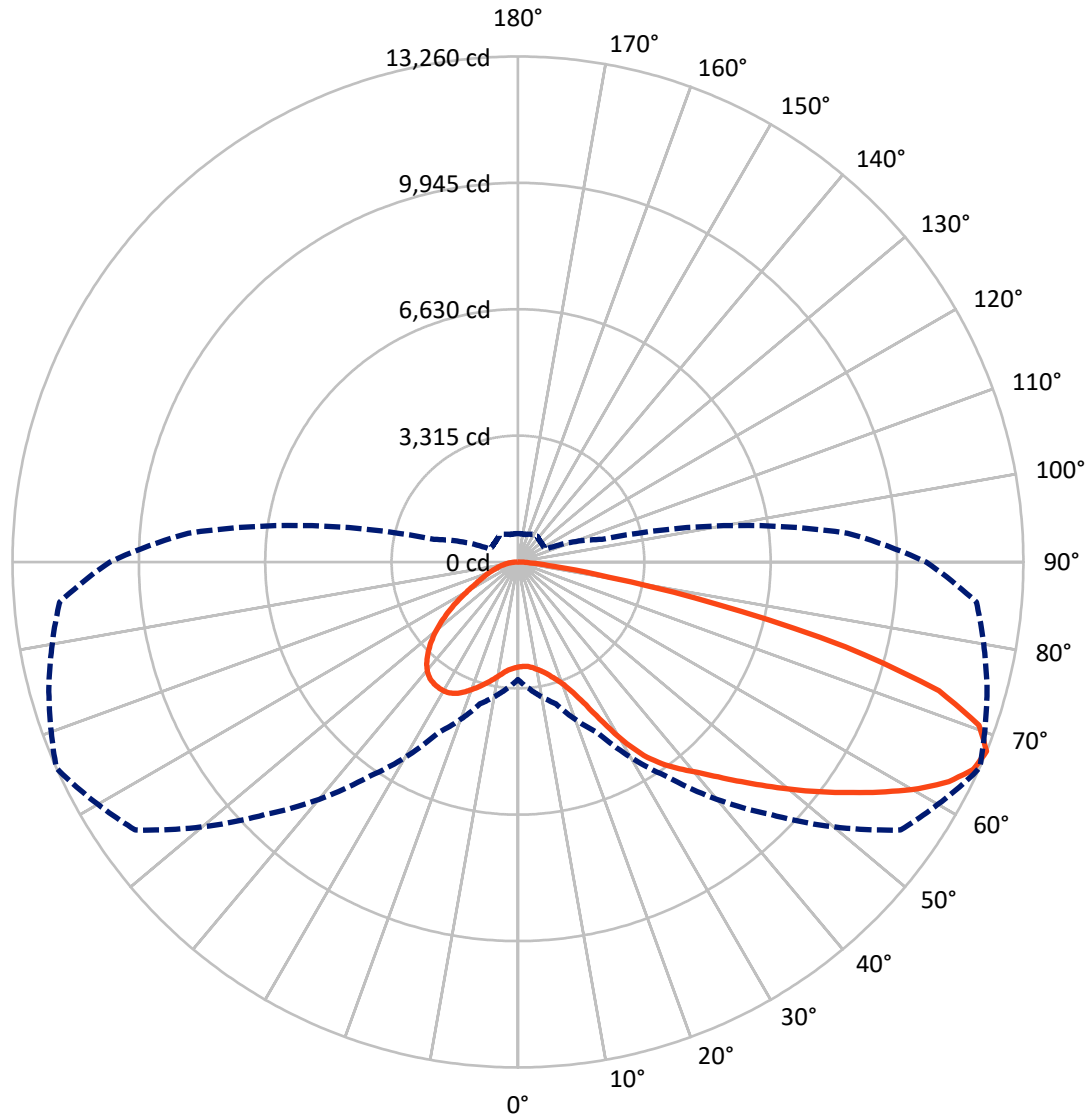
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6176.6	0.0	6176.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18664.4	0.0	18664.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	24841.0	0.0	24841.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	1.1
10°-20°	902.5	3.6
20°-30°	1739.5	7.0
30°-40°	3050.0	12.3
40°-50°	4534.4	18.3
50°-60°	5747.8	23.1
60°-70°	5624.1	22.6
70°-80°	2682.7	10.8
80°-90°	286.7	1.2
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°	24841.0	100.0
0°-180°	24841.0	100.0



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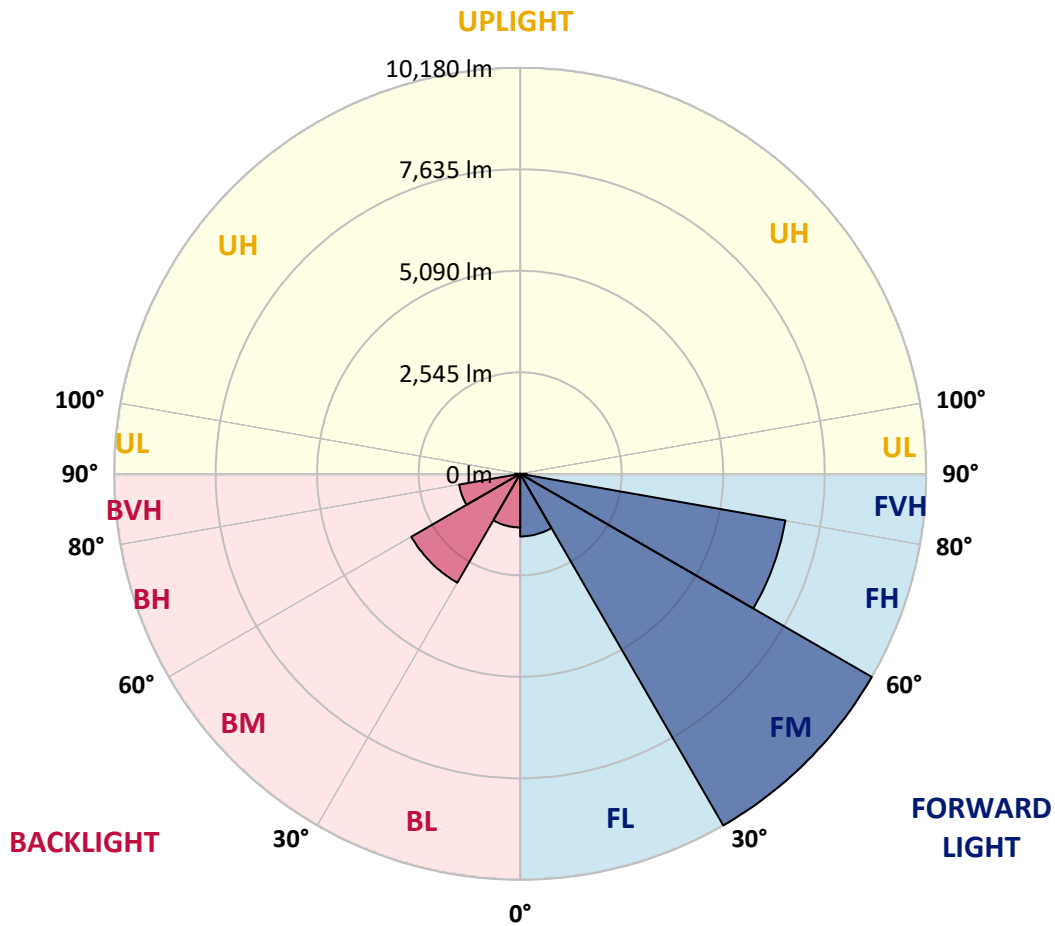
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.7	6.3			
FM (30°-60°)	10179.6	41.0			
FH (60°-80°)	6752.5	27.2			G3/7500
FVH (80°-90°)	162.6	0.7			G2/225
BL (0°-30°)	1345.5	5.4	B3/2500		
BM (30°-60°)	3152.6	12.7	B3/5000		
BH (60°-80°)	1554.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	124.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2
2.5°	2726.5	2742.1	2738.2	2731.7	2730.4	2733.0	2736.9	2740.8	2739.5	2746.1
5°	2718.7	2734.3	2733.0	2733.0	2738.2	2748.7	2755.2	2761.7	2755.2	2763.0
7.5°	2723.9	2735.6	2740.8	2746.1	2759.1	2778.7	2794.4	2808.7	2800.9	2810.0
10°	2790.4	2799.6	2804.8	2804.8	2813.9	2836.1	2851.8	2877.9	2871.4	2885.7
12.5°	2911.8	2921.0	2921.0	2915.7	2922.3	2936.6	2941.8	2970.5	2958.8	2982.3
15°	3060.6	3078.9	3064.5	3055.4	3058.0	3072.3	3071.0	3093.2	3081.5	3101.1
17.5°	3225.1	3248.5	3225.1	3223.7	3218.5	3234.2	3235.5	3255.1	3234.2	3248.5
20°	3419.5	3452.2	3432.6	3439.1	3427.4	3433.9	3440.4	3469.1	3436.5	3446.9
22.5°	3693.6	3732.8	3711.9	3736.7	3728.8	3723.6	3722.3	3773.2	3722.3	3726.2
25°	4093.0	4140.0	4103.4	4137.4	4137.4	4154.3	4173.9	4239.2	4154.3	4129.5
27.5°	4682.9	4729.9	4658.1	4679.0	4672.5	4714.2	4693.4	4855.2	4763.8	4723.4
30°	5392.9	5476.5	5340.7	5335.5	5329.0	5395.5	5425.6	5532.6	5439.9	5399.5
32.5°	6160.4	6247.8	6086.0	6039.0	6014.2	6054.6	6029.8	6116.0	6052.0	5989.4
35°	6972.2	7058.3	6904.3	6812.9	6713.7	6628.9	6540.2	6562.4	6502.3	6407.0
37.5°	7739.6	7897.5	7734.4	7636.5	7453.8	7288.0	7040.0	6936.9	6880.8	6793.4
40°	8521.4	8611.5	8487.5	8403.9	8205.5	7945.8	7549.1	7331.1	7255.4	7170.6
42.5°	9097.0	9183.1	9116.6	9059.1	8903.8	8602.3	8089.4	7816.6	7707.0	7611.7
45°	9553.8	9617.7	9576.0	9596.8	9530.3	9237.9	8649.3	8337.4	8223.8	8107.7
47.5°	9737.8	9805.7	9872.2	9996.2	10109.8	9894.4	9251.0	8901.2	8781.1	8662.4
50°	9716.9	9786.1	9979.3	10242.9	10595.3	10523.5	9885.3	9501.6	9390.6	9254.9
52.5°	9549.9	9628.2	9876.2	10314.7	10875.9	10994.7	10531.3	10121.5	10017.1	9855.3
55°	9111.3	9158.3	9530.3	10151.5	10942.5	11323.6	11164.3	10781.9	10677.5	10451.7
57.5°	8298.2	8366.1	8907.7	9711.7	10775.4	11546.8	11720.3	11476.3	11375.8	11050.8
60°	7237.1	7345.4	7965.4	8973.0	10349.9	11545.5	12225.4	12158.9	12075.4	11640.7
62.5°	6036.4	6161.7	6758.1	7928.9	9606.0	11217.9	12541.3	12730.5	12687.5	12185.0
65°	4635.9	4722.1	5315.9	6578.0	8448.3	10514.4	12577.8	13120.8	13128.6	12598.7
67.5°	3086.7	3334.7	3850.2	4936.1	6897.8	9364.5	12256.8	13184.7	13260.4	12741.0
70°	1506.2	1832.4	2337.5	3208.1	4936.1	7601.3	11417.5	12660.1	12828.4	12325.9
72.5°	625.2	730.9	1006.3	1583.2	2833.5	5129.3	9731.3	11237.4	11549.4	10921.6
75°	421.6	456.8	575.6	811.8	1290.8	2529.4	7017.9	8379.1	8881.6	8248.6
77.5°	325.0	347.2	419.0	567.7	767.4	956.7	3756.3	5049.7	5309.4	4915.2
80°	255.8	272.8	313.2	413.7	544.3	511.6	1280.4	2287.9	2438.0	2045.2
82.5°	221.9	228.4	224.5	280.6	361.5	298.9	420.3	844.4	931.9	676.1
85°	160.5	178.8	186.6	173.6	191.9	151.4	172.3	298.9	328.9	293.7
87.5°	65.3	96.6	118.8	112.2	70.5	43.1	53.5	87.4	100.5	109.6
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°
2755.2	0°	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2	2755.2
2756.5	2.5°	2757.8	2766.9	2773.5	2781.3	2786.5	2794.4	2810.0	2819.1	2820.5	2827.0
2777.4	5°	2782.6	2795.7	2810.0	2830.9	2854.4	2874.0	2904.0	2924.9	2932.7	2939.2
2828.3	7.5°	2836.1	2854.4	2880.5	2917.0	2951.0	2977.1	3013.6	3038.4	3063.2	3072.3
2909.2	10°	2915.7	2941.8	2979.7	3029.3	3065.8	3099.8	3137.6	3158.5	3183.3	3193.7
3005.8	12.5°	3014.9	3042.3	3091.9	3161.1	3195.0	3218.5	3231.6	3226.4	3231.6	3240.7
3121.9	15°	3128.5	3158.5	3214.6	3289.0	3312.5	3291.6	3262.9	3236.8	3232.9	3235.5
3262.9	17.5°	3262.9	3285.1	3350.3	3413.0	3396.0	3309.9	3247.2	3205.5	3184.6	3178.1
3443.0	20°	3450.8	3450.8	3504.4	3543.5	3430.0	3283.8	3185.9	3118.0	3075.0	3056.7
3688.4	22.5°	3679.2	3658.4	3692.3	3664.9	3423.4	3210.7	3075.0	2957.5	2892.2	2866.1
4031.6	25°	3969.0	3944.2	3935.1	3765.4	3376.5	3094.5	2874.0	2731.7	2674.3	2659.9
4526.3	27.5°	4406.2	4343.6	4224.8	3820.2	3290.3	2911.8	2639.0	2507.2	2474.6	2475.9
5161.9	30°	4988.3	4863.0	4572.0	3829.3	3149.4	2653.4	2398.9	2304.9	2289.3	2295.8
5695.7	32.5°	5527.4	5408.6	4927.0	3787.6	2932.7	2400.2	2183.5	2120.9	2097.4	2105.2
6102.9	35°	5950.2	5917.6	5255.9	3728.8	2666.4	2162.7	1990.4	1936.9	1891.2	1880.7
6486.7	37.5°	6349.6	6336.6	5502.6	3646.6	2402.8	1994.3	1835.1	1764.6	1698.0	1661.5
6910.8	40°	6788.1	6775.1	5664.4	3520.0	2169.2	1848.1	1695.4	1602.7	1520.5	1453.9
7391.1	42.5°	7281.5	7204.5	5741.4	3338.6	1970.8	1724.1	1581.9	1456.6	1348.2	1286.9
7934.1	45°	7820.5	7646.9	5740.1	3107.6	1803.7	1610.6	1460.5	1283.0	1182.5	1125.0
8491.4	47.5°	8392.2	8069.8	5669.6	2851.8	1641.9	1485.3	1272.5	1136.8	1070.2	1035.0
9097.0	50°	8982.1	8465.3	5549.5	2558.1	1476.1	1343.0	1155.1	1062.4	1011.5	978.9
9697.3	52.5°	9536.8	8824.2	5404.7	2225.3	1307.8	1204.7	1102.9	1031.1	977.6	941.0
10279.4	55°	10052.4	9133.5	5199.8	1884.7	1170.7	1112.0	1078.1	1018.0	956.7	913.6
10870.7	57.5°	10510.5	9334.5	4846.1	1564.9	1072.8	1048.0	1052.0	995.8	925.4	888.8
11452.8	60°	10891.6	9482.0	4322.7	1268.6	993.2	985.4	1011.5	954.1	871.8	830.1
11944.8	62.5°	11120.0	9479.4	3680.6	1038.9	925.4	928.0	958.0	901.9	818.3	779.2
12202.0	65°	11100.4	9247.1	2975.8	888.8	860.1	862.7	901.9	844.4	774.0	750.5
12072.7	67.5°	10707.5	8680.6	2282.7	790.9	788.3	800.1	845.7	805.3	746.6	743.9
11302.7	70°	9643.8	7504.7	1644.5	712.6	713.9	730.9	790.9	780.5	732.2	737.4
9502.9	72.5°	7733.1	5721.8	1104.2	630.4	631.7	659.1	738.7	760.9	717.8	787.0
6742.5	75°	5150.2	3568.3	710.0	542.9	544.3	579.5	693.0	723.1	678.7	784.4
3508.3	77.5°	2474.6	1604.0	514.2	456.8	456.8	489.4	599.1	647.4	578.2	609.5
1127.7	80°	854.9	603.0	404.6	368.1	360.2	382.4	505.1	561.2	498.6	459.4
368.1	82.5°	336.7	313.2	325.0	285.8	259.7	274.1	392.9	463.3	366.8	331.5
207.5	85°	193.2	203.6	229.7	189.2	150.1	168.4	288.4	332.8	276.7	244.1
67.9	87.5°	52.2	71.8	105.7	97.9	67.9	71.8	137.0	184.0	159.2	122.7
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>
2755.2
2825.7
2937.9
3073.7
3198.9
3243.3
3244.6
3187.2
3052.8
2862.2
2662.5
2479.8
2318.0
2115.7
1888.6
1662.8
1460.5
1290.8
1122.4
1027.2
967.1
925.4
896.6
865.3
811.8
767.4
749.2
747.9
736.1
797.5
790.9
558.6
430.7
330.2
249.3
126.6
0.0

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