

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: P941382

Luminaire Tested: **GALN-SB4D-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941382
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-SB4D-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24608 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

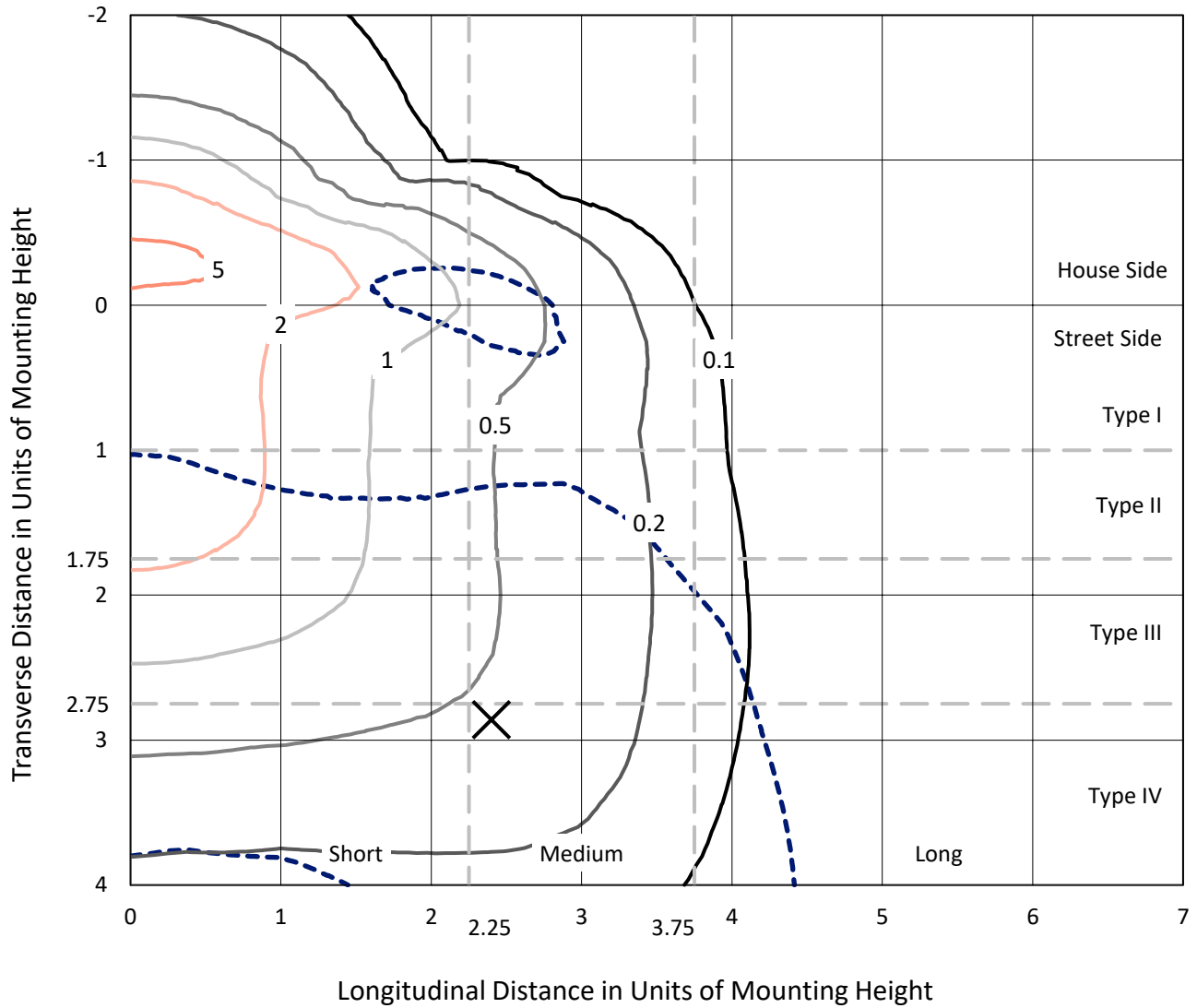
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

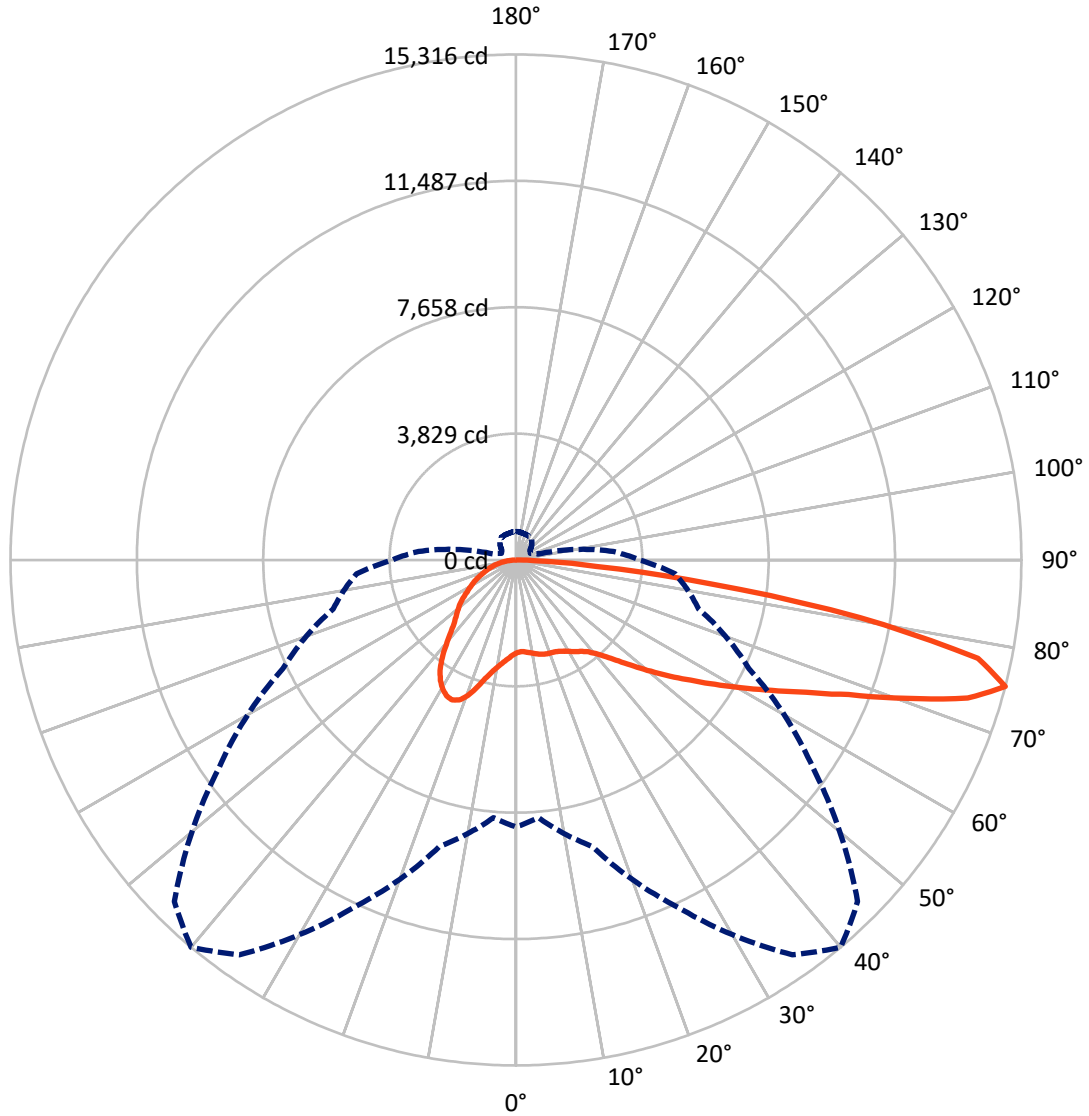
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	7624.4	0.0	7624.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16983.6	0.0	16983.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	24608.0	0.0	24608.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	1.1
10°-20°	943.1	3.8
20°-30°	1722.0	7.0
30°-40°	2442.2	9.9
40°-50°	3297.7	13.4
50°-60°	4436.3	18.0
60°-70°	5630.7	22.9
70°-80°	5110.2	20.8
80°-90°	744.9	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°	24608.0	100.0
0°-180°	24608.0	100.0



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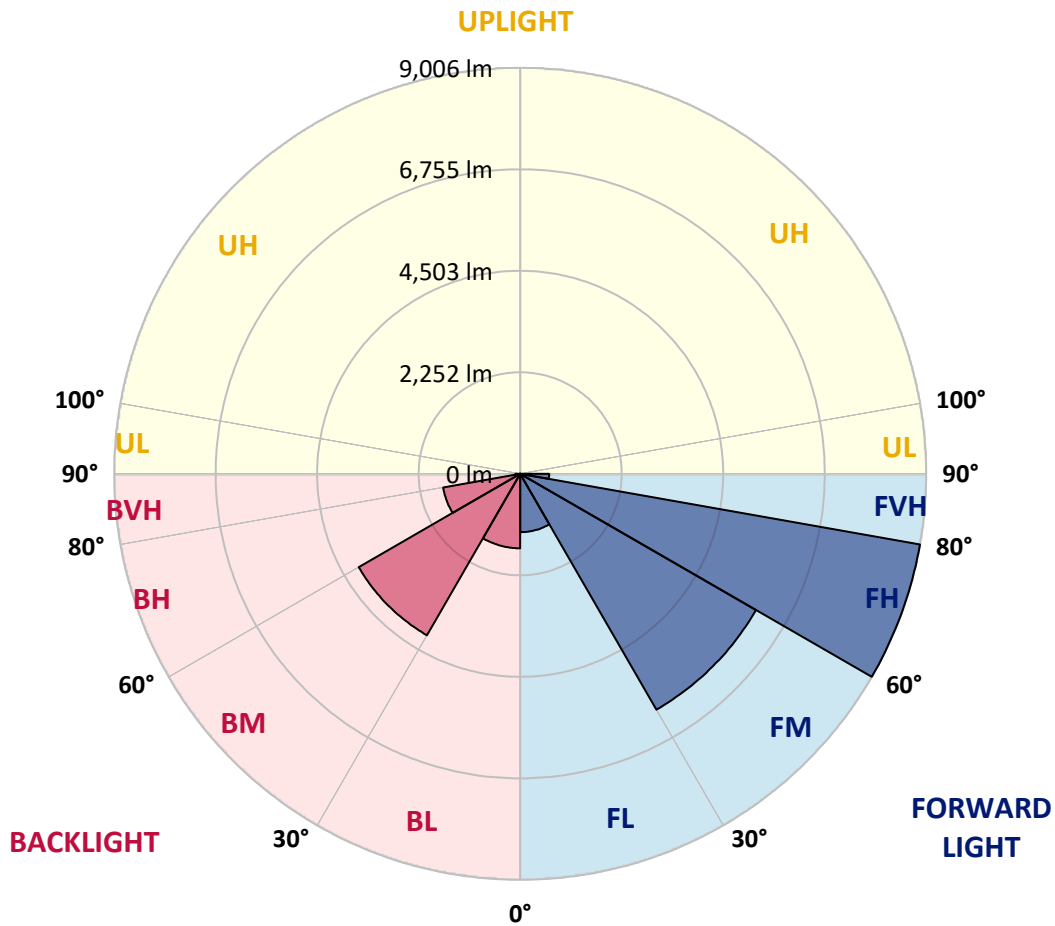
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.4	5.3			
FM (30°-60°)	6040.7	24.5			
FH (60°-80°)	9006.1	36.6			G4/12000
FVH (80°-90°)	642.4	2.6			G4/750
BL (0°-30°)	1651.5	6.7	B3/2500		
BM (30°-60°)	4135.5	16.8	B3/5000		
BH (60°-80°)	1734.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	102.6	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0
2.5°	2770.9	2786.5	2782.6	2777.4	2777.4	2778.7	2777.4	2786.5	2795.7	2804.8
5°	2799.6	2815.3	2807.4	2800.9	2795.7	2794.4	2790.5	2789.2	2794.4	2806.1
7.5°	2855.7	2871.4	2859.6	2847.9	2837.5	2832.2	2827.0	2819.2	2815.3	2821.8
10°	2918.4	2934.0	2919.7	2898.8	2881.8	2875.3	2870.1	2862.2	2857.0	2860.9
12.5°	2981.0	2996.7	2977.1	2948.4	2926.2	2922.3	2915.8	2913.2	2911.8	2910.5
15°	3039.8	3052.8	3028.0	2994.1	2970.6	2964.1	2957.5	2961.4	2968.0	2975.8
17.5°	3085.4	3098.5	3061.9	3017.6	2995.4	2992.8	2988.9	3001.9	3020.2	3039.8
20°	3127.2	3140.3	3093.3	3033.2	3007.1	3007.1	3008.4	3035.8	3061.9	3090.7
22.5°	3185.9	3196.4	3138.9	3056.7	3018.9	3021.5	3031.9	3059.3	3092.0	3131.1
25°	3273.4	3281.2	3210.7	3101.1	3058.0	3065.9	3075.0	3088.0	3119.4	3165.0
27.5°	3414.3	3420.9	3328.2	3179.4	3114.1	3127.2	3140.3	3131.1	3145.5	3184.6
30°	3612.7	3616.6	3499.2	3302.1	3209.4	3216.0	3218.6	3180.7	3153.3	3184.6
32.5°	3847.7	3846.4	3706.7	3450.9	3317.8	3311.2	3289.0	3214.6	3150.7	3178.1
35°	4211.8	4197.4	4017.3	3659.7	3440.4	3400.0	3347.8	3252.5	3163.7	3171.6
37.5°	4814.8	4770.4	4521.1	4001.7	3623.2	3520.1	3443.1	3313.8	3192.5	3169.0
40°	5494.8	5438.7	5164.6	4470.2	3897.3	3731.5	3607.5	3401.3	3239.4	3180.7
42.5°	6301.4	6221.8	5926.8	5022.3	4244.4	4004.3	3817.6	3512.2	3308.6	3218.6
45°	7292.0	7186.3	6768.6	5644.9	4681.7	4361.9	4112.6	3680.6	3414.3	3291.7
47.5°	8293.1	8319.2	7725.3	6357.5	5206.3	4803.0	4482.0	3933.8	3568.3	3409.1
50°	9356.8	9375.1	8676.8	7147.1	5801.5	5301.6	4897.0	4217.0	3782.4	3576.2
52.5°	10186.9	10189.5	9540.8	7973.3	6421.5	5849.8	5344.7	4540.7	4030.4	3798.1
55°	10706.4	10699.8	10146.4	8755.1	7134.1	6425.4	5840.7	4908.8	4333.2	4059.1
57.5°	11083.5	11064.0	10564.1	9427.3	7893.7	7105.4	6401.9	5326.4	4690.8	4369.7
60°	11227.1	11215.4	10847.3	10008.1	8692.5	7857.2	7049.3	5793.7	5096.7	4736.5
62.5°	11281.9	11304.1	11125.3	10570.6	9547.4	8689.9	7760.6	6352.3	5553.5	5151.5
65°	11475.1	11515.6	11479.0	11306.7	10513.2	9664.8	8704.2	7016.6	6052.1	5596.6
67.5°	11857.5	11898.0	11913.6	12187.7	11693.1	10879.9	9881.5	7844.1	6635.5	6058.6
70°	11848.4	11836.6	12113.3	12888.6	13170.5	12562.3	11468.6	8862.1	7331.2	6442.3
72.5°	10784.7	10690.7	11344.6	12880.8	14400.0	14319.1	13406.8	10175.1	7931.5	6489.3
75°	8090.8	7840.2	8995.3	11608.2	14604.9	15316.2	14638.8	10989.6	7789.3	5733.6
77.5°	3460.0	3208.1	4569.4	8593.3	13071.3	14317.8	13508.6	9587.8	6217.9	3791.5
80°	905.8	904.5	1380.9	3895.9	8889.5	10573.2	9275.9	6191.8	3552.7	1354.8
82.5°	374.6	365.4	507.7	1515.3	4343.6	5933.3	4842.2	2761.8	1283.0	366.8
85°	139.7	138.3	246.7	523.4	1532.3	2447.2	1771.1	706.1	319.8	178.8
87.5°	39.2	37.9	53.5	181.4	373.3	566.4	302.8	116.2	90.1	70.5
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°
2814.0	0°	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0
2819.2	2.5°	2823.1	2829.6	2841.4	2850.5	2862.2	2875.3	2893.6	2905.3	2917.1	2924.9
2825.7	5°	2834.8	2849.2	2879.2	2909.2	2944.5	2977.1	3015.0	3042.4	3064.6	3071.1
2849.2	7.5°	2860.9	2884.4	2935.3	2986.2	3042.4	3095.9	3150.7	3197.7	3235.5	3249.9
2891.0	10°	2906.6	2937.9	3009.7	3081.5	3155.9	3238.1	3308.6	3376.5	3430.0	3452.2
2940.6	12.5°	2964.1	3003.2	3097.2	3196.4	3299.5	3413.0	3504.4	3587.9	3654.5	3684.5
3009.7	15°	3038.4	3089.3	3209.4	3342.6	3494.0	3651.9	3768.0	3860.7	3935.1	3971.6
3081.5	17.5°	3119.4	3187.2	3338.6	3539.6	3756.3	3963.8	4099.6	4167.4	4244.4	4279.7
3148.1	20°	3197.7	3281.2	3497.9	3790.2	4078.7	4299.2	4408.9	4427.2	4432.4	4436.3
3210.7	22.5°	3278.6	3390.8	3697.6	4106.1	4415.4	4568.1	4583.8	4505.5	4395.8	4344.9
3272.1	25°	3367.4	3516.1	3958.6	4454.6	4705.2	4723.4	4603.4	4412.8	4205.3	4110.0
3321.7	27.5°	3453.5	3661.0	4271.8	4787.4	4914.0	4753.4	4495.0	4224.9	3974.3	3873.8
3356.9	30°	3539.6	3826.8	4617.7	5078.4	5009.3	4679.1	4324.0	4022.5	3770.7	3664.9
3388.2	32.5°	3627.1	4019.9	5015.8	5288.6	4992.3	4521.1	4111.3	3795.4	3573.6	3462.6
3415.6	35°	3726.3	4257.5	5393.0	5403.4	4878.7	4288.8	3830.7	3524.0	3330.8	3242.1
3448.3	37.5°	3855.5	4559.0	5725.8	5432.1	4680.4	3948.2	3482.2	3202.9	3043.7	3003.2
3496.6	40°	4016.0	4921.8	5980.3	5386.5	4386.7	3534.4	3101.1	2877.9	2787.9	2797.0
3561.8	42.5°	4224.9	5327.7	6159.1	5269.0	3978.2	3107.6	2767.0	2667.8	2710.8	2747.4
3659.7	45°	4496.3	5749.3	6270.1	5069.3	3516.1	2746.1	2569.9	2593.4	2626.0	2629.9
3817.6	47.5°	4843.5	6176.1	6343.2	4767.8	3045.0	2491.6	2444.6	2449.8	2443.3	2415.9
4053.9	50°	5276.8	6591.1	6408.4	4368.4	2644.3	2332.3	2269.7	2251.4	2161.4	2072.6
4368.4	52.5°	5770.2	6972.2	6435.8	3872.5	2332.3	2199.2	2097.4	1982.6	1814.2	1786.8
4763.9	55°	6318.4	7324.6	6365.3	3262.9	2070.0	2028.2	1874.2	1735.9	1717.6	1694.1
5284.7	57.5°	6973.6	7704.4	6221.8	2582.9	1801.1	1828.6	1678.5	1694.1	1661.5	1624.9
5954.2	60°	7690.1	8097.3	5969.9	1963.0	1523.1	1579.3	1627.6	1626.2	1617.1	1587.1
6660.3	62.5°	8334.8	8355.7	5473.9	1503.6	1279.1	1386.1	1517.9	1516.6	1508.8	1491.8
7397.7	65°	8718.6	8316.6	4646.4	1183.8	1078.1	1226.9	1369.1	1379.6	1380.9	1379.6
7952.4	67.5°	8650.7	7858.5	3510.9	942.3	912.3	1065.0	1221.6	1236.0	1246.4	1249.1
8022.9	70°	7883.3	6852.2	2289.3	751.8	764.8	922.8	1082.0	1096.3	1105.5	1115.9
6961.8	72.5°	6144.8	5038.0	1310.4	608.2	635.6	800.1	943.6	960.6	965.8	985.4
4844.8	75°	3744.5	2962.7	707.4	479.0	522.1	683.9	806.6	826.2	835.3	858.8
2379.3	77.5°	1780.3	1283.0	403.3	373.3	420.3	558.6	681.3	703.5	678.7	691.7
656.5	80°	601.7	476.4	254.5	284.5	321.1	435.9	545.6	567.8	515.5	512.9
218.0	82.5°	210.1	193.2	161.8	189.3	207.5	311.9	412.4	441.1	383.7	382.4
97.9	85°	82.2	78.3	90.1	103.1	124.0	191.9	271.5	285.8	236.2	190.6
28.7	87.5°	17.0	18.3	22.2	23.5	37.9	66.6	97.9	120.1	95.3	80.9
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>
2814.0
2919.7
3073.7
3251.2
3453.5
3684.5
3969.0
4278.4
4446.7
4359.3
4124.4
3885.5
3676.7
3477.0
3261.6
3031.9
2828.3
2781.3
2656.0
2436.8
2084.4
1795.9
1698.0
1618.4
1576.7
1485.3
1379.6
1251.7
1121.1
993.2
<i>861.4</i>
681.3
507.7
364.1
187.9
74.4
0.0

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