

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: P941462

Luminaire Tested: **GALN-SB5A-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941462
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-SB5A-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22462 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

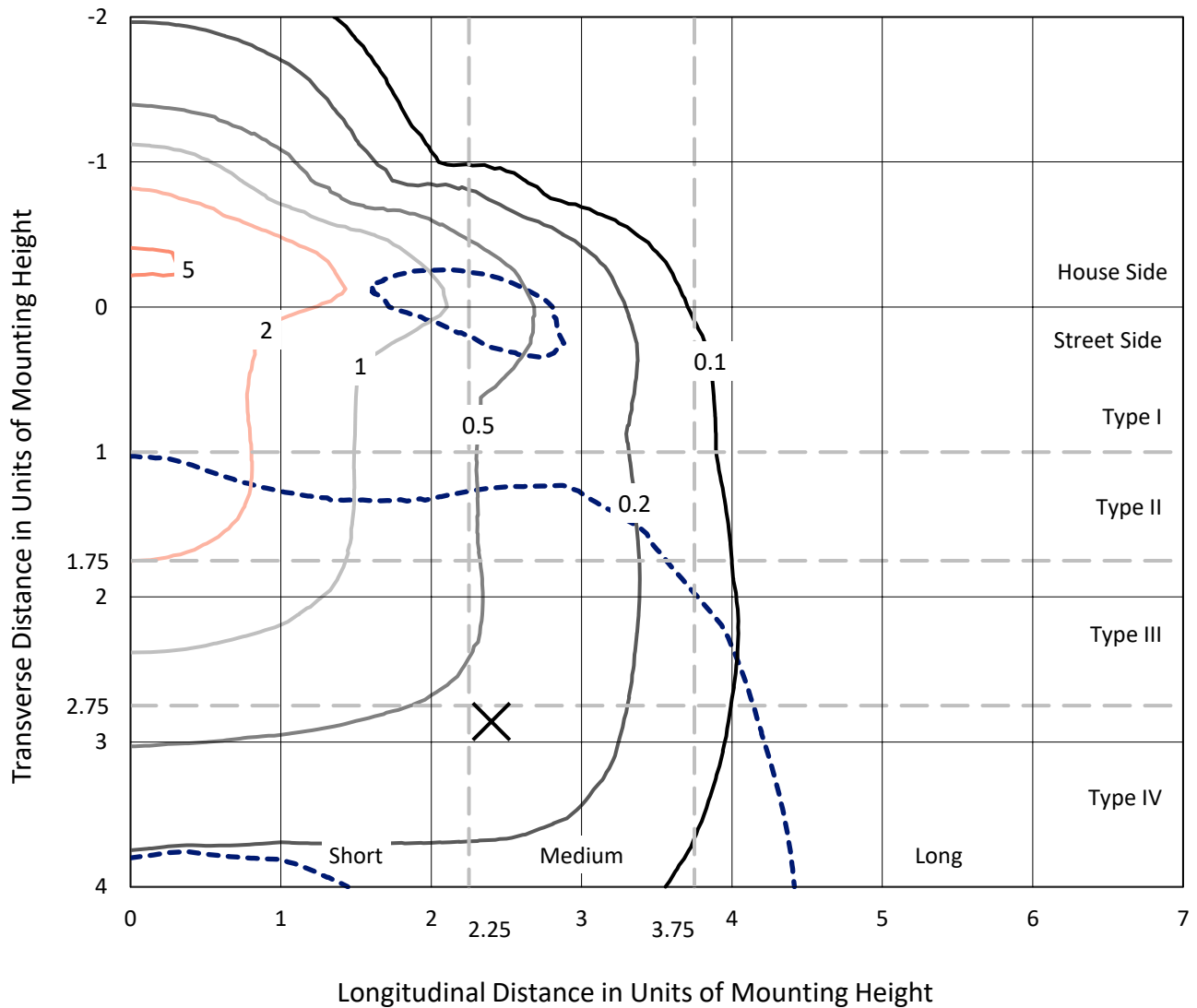
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

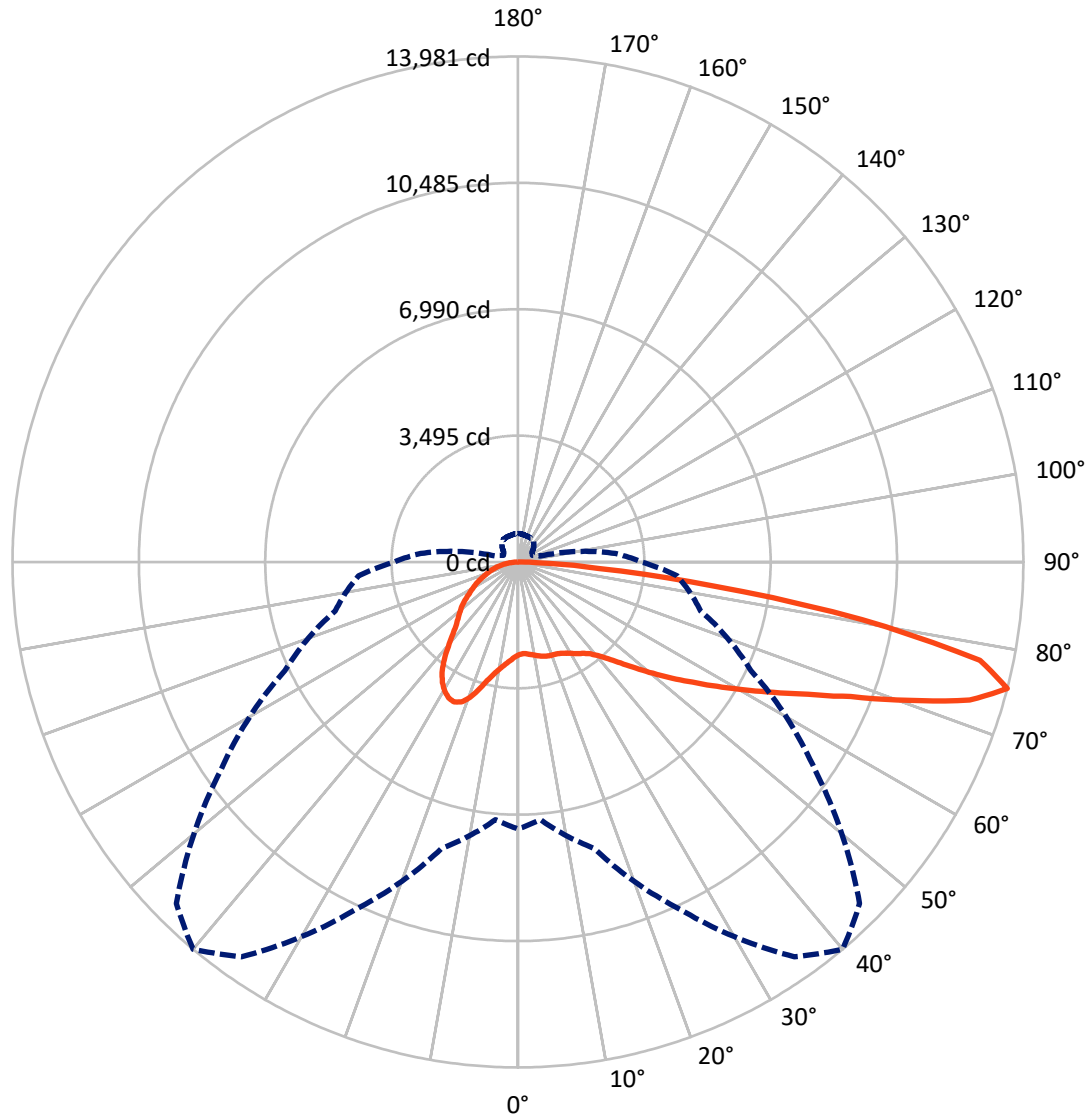
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	6959.5	0.0	6959.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15502.5	0.0	15502.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	22462.0	0.0	22462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	1.1
10°-20°	860.8	3.8
20°-30°	1571.8	7.0
30°-40°	2229.2	9.9
40°-50°	3010.1	13.4
50°-60°	4049.4	18.0
60°-70°	5139.7	22.9
70°-80°	4664.6	20.8
80°-90°	679.9	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°	22462.0	100.0
0°-180°	22462.0	100.0

Coefficient of Utilization



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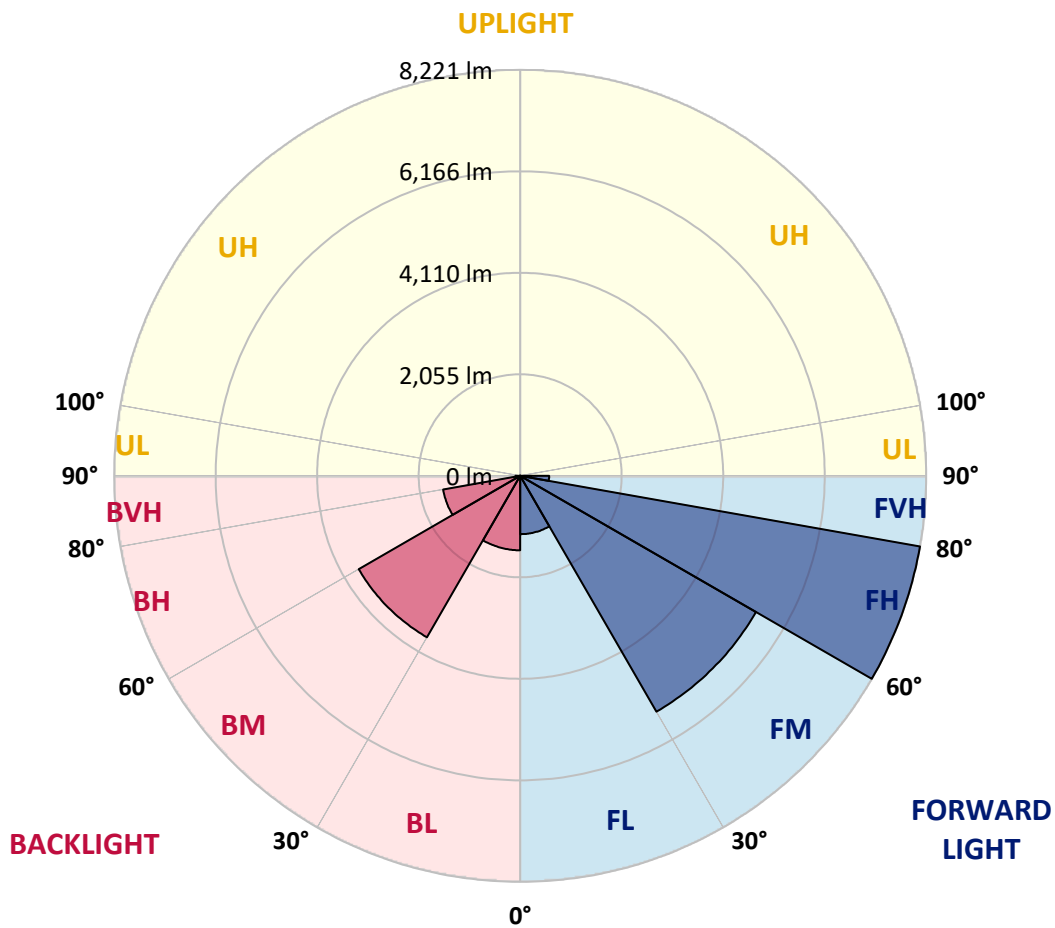
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1181.5	5.3			
FM (30°-60°)	5513.9	24.5			
FH (60°-80°)	8220.7	36.6			G4/12000
FVH (80°-90°)	586.3	2.6			G4/750
BL (0°-30°)	1507.5	6.7	B3/2500		
BM (30°-60°)	3774.9	16.8	B3/5000		
BH (60°-80°)	1583.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	93.6	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°	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6
2.5°	2529.2	2543.5	2540.0	2535.2	2535.2	2536.4	2535.2	2543.5	2551.9	2560.2
5°	2555.5	2569.8	2562.6	2556.6	2551.9	2550.7	2547.1	2545.9	2550.7	2561.4
7.5°	2606.7	2621.0	2610.3	2599.5	2590.0	2585.2	2580.5	2573.3	2569.8	2575.7
10°	2663.9	2678.2	2665.1	2646.0	2630.5	2624.6	2619.8	2612.6	2607.9	2611.4
12.5°	2721.1	2735.3	2717.5	2691.3	2671.0	2667.4	2661.5	2659.1	2657.9	2656.7
15°	2774.7	2786.6	2763.9	2733.0	2711.5	2705.6	2699.6	2703.2	2709.1	2716.3
17.5°	2816.4	2828.3	2794.9	2754.4	2734.2	2731.8	2728.2	2740.1	2756.8	2774.7
20°	2854.5	2866.4	2823.5	2768.7	2744.9	2744.9	2746.1	2771.1	2794.9	2821.1
22.5°	2908.1	2917.6	2865.2	2790.2	2755.6	2758.0	2767.5	2792.5	2822.3	2858.1
25°	2987.9	2995.1	2930.7	2830.7	2791.3	2798.5	2806.8	2818.7	2847.3	2889.0
27.5°	3116.6	3122.5	3038.0	2902.1	2842.6	2854.5	2866.4	2858.1	2871.2	2906.9
30°	3297.7	3301.2	3194.0	3014.1	2929.5	2935.5	2937.9	2903.3	2878.3	2906.9
32.5°	3512.1	3510.9	3383.4	3149.9	3028.4	3022.5	3002.2	2934.3	2875.9	2900.9
35°	3844.5	3831.4	3667.0	3340.6	3140.4	3103.5	3055.8	2968.9	2887.8	2895.0
37.5°	4394.9	4354.4	4126.9	3652.7	3307.2	3213.1	3142.8	3024.8	2914.1	2892.6
40°	5015.6	4964.4	4714.2	4080.4	3557.4	3406.1	3292.9	3104.7	2956.9	2903.3
42.5°	5751.9	5679.2	5409.9	4584.3	3874.3	3655.1	3484.7	3205.9	3020.1	2937.9
45°	6656.1	6559.6	6178.4	5152.6	4273.4	3981.5	3754.0	3359.6	3116.6	3004.6
47.5°	7569.9	7593.7	7051.6	5803.1	4752.3	4384.2	4091.1	3590.7	3257.2	3111.8
50°	8540.8	8557.5	7920.1	6523.9	5295.6	4839.3	4470.0	3849.3	3452.5	3264.3
52.5°	9298.5	9300.9	8708.8	7278.0	5861.5	5339.6	4878.6	4144.7	3678.9	3466.8
55°	9772.7	9766.7	9261.6	7991.6	6511.9	5865.0	5331.3	4480.7	3955.3	3705.1
57.5°	10117.0	10099.1	9642.8	8605.2	7205.3	6485.7	5843.6	4861.9	4281.7	3988.7
60°	10248.0	10237.3	9901.3	9135.3	7934.4	7172.0	6434.5	5288.4	4652.2	4323.4
62.5°	10298.1	10318.3	10155.1	9648.8	8714.8	7932.0	7083.8	5798.3	5069.2	4702.3
65°	10474.4	10511.3	10478.0	10320.7	9596.4	8822.0	7945.1	6404.7	5524.3	5108.5
67.5°	10823.5	10860.4	10874.7	11124.9	10673.3	9931.1	9019.7	7160.0	6056.8	5530.3
70°	10815.1	10804.4	11057.0	11764.6	12022.0	11466.8	10468.4	8089.3	6691.8	5880.5
72.5°	9844.2	9758.4	10355.3	11757.5	13144.2	13070.3	12237.6	9287.8	7239.9	5923.4
75°	7385.2	7156.5	8210.8	10595.9	13331.3	13980.5	13362.2	10031.2	7110.0	5233.6
77.5°	3158.3	2928.3	4170.9	7843.9	11931.4	13069.2	12330.5	8751.7	5675.6	3460.9
80°	826.8	825.6	1260.5	3556.2	8114.3	9651.2	8467.0	5651.8	3242.9	1236.6
82.5°	341.9	333.6	463.4	1383.2	3964.8	5415.9	4419.9	2520.9	1171.1	334.8
85°	127.5	126.3	225.2	477.7	1398.6	2233.8	1616.7	644.5	291.9	163.2
87.5°	35.7	34.5	48.8	165.6	340.7	517.0	276.4	106.0	82.2	64.3
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°
2568.6	0°	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6	2568.6
2573.3	2.5°	2576.9	2582.9	2593.6	2601.9	2612.6	2624.6	2641.2	2652.0	2662.7	2669.8
2579.3	5°	2587.6	2600.7	2628.1	2655.5	2687.7	2717.5	2752.0	2777.0	2797.3	2803.3
2600.7	7.5°	2611.4	2632.9	2679.4	2725.8	2777.0	2825.9	2875.9	2918.8	2953.4	2966.5
2638.8	10°	2653.1	2681.7	2747.3	2812.8	2880.7	2955.7	3020.1	3082.0	3130.9	3151.1
2684.1	12.5°	2705.6	2741.3	2827.1	2917.6	3011.7	3115.4	3198.8	3275.0	3335.8	3363.2
2747.3	15°	2773.5	2819.9	2929.5	3051.1	3189.3	3333.4	3439.4	3524.0	3591.9	3625.3
2812.8	17.5°	2847.3	2909.3	3047.5	3231.0	3428.7	3618.1	3742.0	3804.0	3874.3	3906.5
2873.5	20°	2918.8	2995.1	3192.8	3459.7	3723.0	3924.3	4024.4	4041.1	4045.8	4049.4
2930.7	22.5°	2992.7	3095.1	3375.1	3748.0	4030.4	4169.7	4184.0	4112.6	4012.5	3966.0
2986.7	25°	3073.7	3209.5	3613.4	4066.1	4294.8	4311.5	4201.9	4028.0	3838.5	3751.6
3032.0	27.5°	3152.3	3341.7	3899.3	4369.9	4485.4	4338.9	4103.0	3856.4	3627.7	3535.9
3064.2	30°	3231.0	3493.1	4215.0	4635.6	4572.4	4271.0	3947.0	3671.8	3441.8	3345.3
3092.8	32.5°	3310.8	3669.4	4578.4	4827.4	4556.9	4126.9	3752.8	3464.5	3261.9	3160.7
3117.8	35°	3401.3	3886.2	4922.7	4932.2	4453.3	3914.8	3496.6	3216.7	3040.3	2959.3
3147.6	37.5°	3519.3	4161.4	5226.5	4958.4	4272.2	3603.8	3178.5	2923.6	2778.2	2741.3
3191.6	40°	3665.8	4492.6	5458.8	4916.7	4004.1	3226.2	2830.7	2626.9	2544.7	2553.1
3251.2	42.5°	3856.4	4863.1	5622.0	4809.5	3631.2	2836.6	2525.7	2435.1	2474.4	2507.8
3340.6	45°	4104.2	5247.9	5723.3	4627.2	3209.5	2506.6	2345.8	2367.2	2397.0	2400.6
3484.7	47.5°	4421.1	5637.5	5790.0	4352.0	2779.4	2274.3	2231.4	2236.2	2230.2	2205.2
3700.3	50°	4816.6	6016.3	5849.5	3987.5	2413.7	2128.9	2071.8	2055.1	1972.9	1891.9
3987.5	52.5°	5267.0	6364.2	5874.6	3534.7	2128.9	2007.4	1914.5	1809.7	1656.0	1631.0
4348.4	55°	5767.3	6685.9	5810.2	2978.4	1889.5	1851.4	1710.8	1584.5	1567.8	1546.4
4823.8	57.5°	6365.4	7032.6	5679.2	2357.7	1644.1	1669.1	1532.1	1546.4	1516.6	1483.2
5435.0	60°	7019.5	7391.2	5449.3	1791.8	1390.3	1441.5	1485.6	1484.4	1476.1	1448.7
6079.5	62.5°	7608.0	7627.0	4996.5	1372.4	1167.5	1265.2	1385.5	1384.4	1377.2	1361.7
6752.6	65°	7958.2	7591.3	4241.2	1080.6	984.1	1119.9	1249.7	1259.3	1260.5	1259.3
7258.9	67.5°	7896.3	7173.1	3204.7	860.2	832.8	972.1	1115.1	1128.2	1137.7	1140.1
7323.3	70°	7195.8	6254.6	2089.6	686.2	698.1	842.3	987.6	1000.7	1009.1	1018.6
6354.7	72.5°	5608.9	4598.6	1196.1	555.2	580.2	730.3	861.3	876.8	881.6	899.5
4422.3	75°	3418.0	2704.4	645.7	437.2	476.5	624.3	736.3	754.1	762.5	783.9
2171.8	77.5°	1625.0	1171.1	368.1	340.7	383.6	509.9	621.9	642.1	619.5	631.4
599.3	80°	549.2	434.8	232.3	259.7	293.1	397.9	498.0	518.2	470.6	468.2
199.0	82.5°	191.8	176.3	147.7	172.7	189.4	284.7	376.5	402.7	350.3	349.1
89.4	85°	75.1	71.5	82.2	94.1	113.2	175.1	247.8	260.9	215.6	173.9
26.2	87.5°	15.5	16.7	20.3	21.4	34.5	60.8	89.4	109.6	87.0	73.9
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>
2568.6
2665.1
2805.6
2967.7
3152.3
3363.2
3622.9
3905.3
4058.9
3979.1
3764.7
3546.7
3356.0
3173.8
2977.2
2767.5
2581.7
2538.8
2424.4
2224.3
1902.6
1639.3
1550.0
1477.3
1439.2
1355.8
1259.3
1142.5
1023.4
906.6
786.3
621.9
463.4
332.4
171.6
67.9
0.0

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