

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: P941472

Luminaire Tested: **GALN-SB5A-740-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941472  
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-740-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

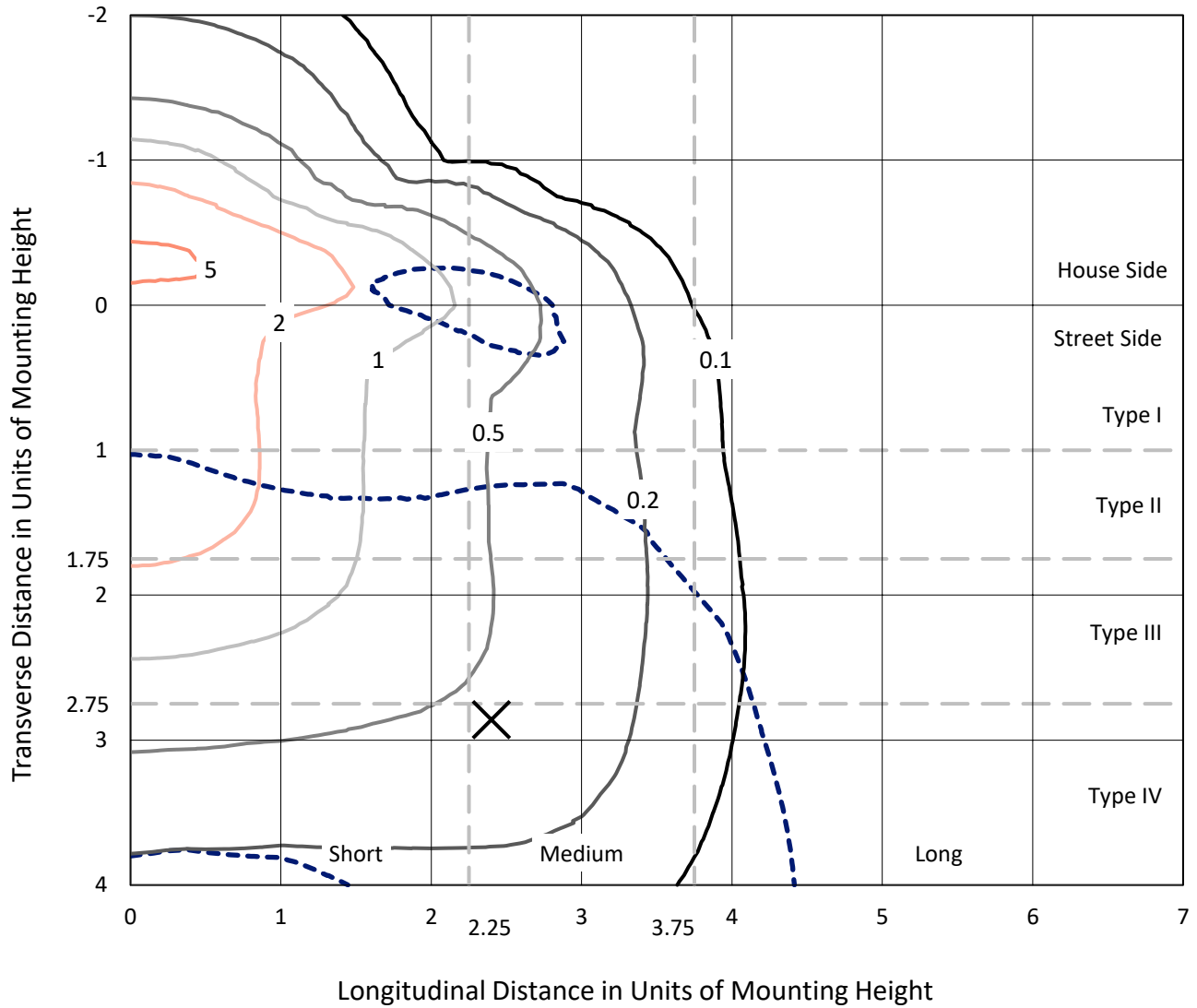
Lumens per Lamp: N/A  
Luminaire Lumens: 23764 lumens  
Efficiency: N/A  
Efficacy: 167.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

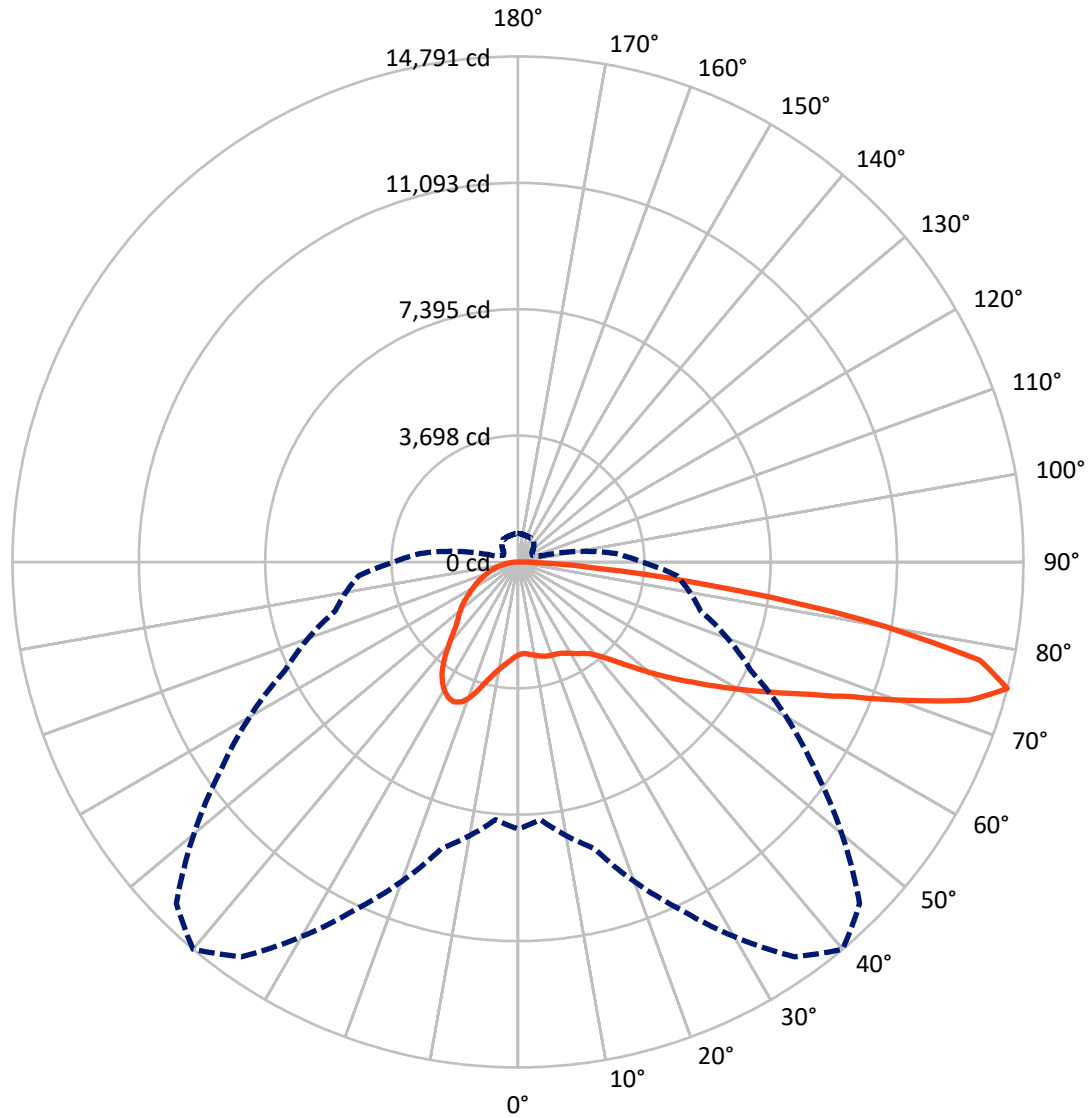
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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
<b>House Side</b>	Lumens	7362.9	0.0	7362.9
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	16401.1	0.0	16401.1
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	23764.0	0.0	23764.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.3	1.1
10°-20°	910.7	3.8
20°-30°	1662.9	7.0
30°-40°	2358.4	9.9
40°-50°	3184.6	13.4
50°-60°	4284.2	18.0
60°-70°	5437.6	22.9
70°-80°	4935.0	20.8
80°-90°	719.4	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°	23764.0	100.0
0°-180°	23764.0	100.0

**Coefficient of Utilization**



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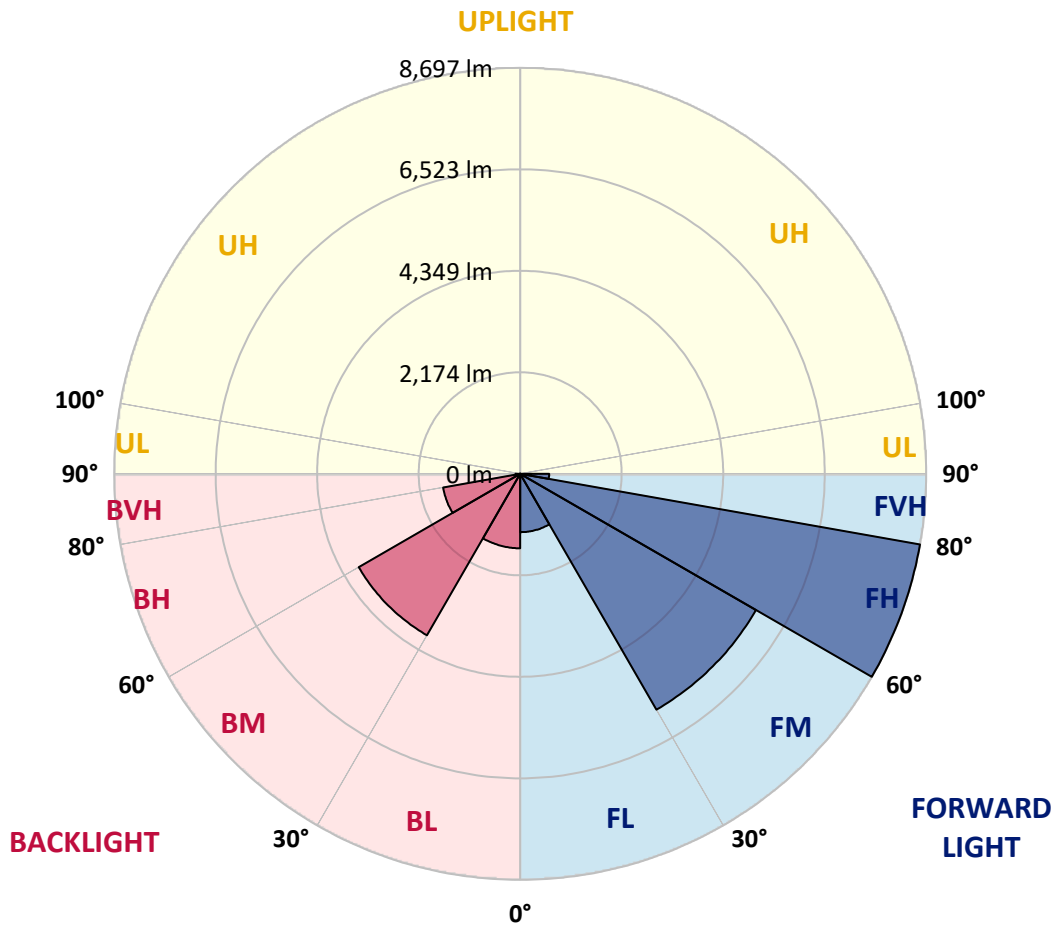
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.0	5.3			
FM (30°-60°)	5833.5	24.5			
FH (60°-80°)	8697.3	36.6			G4/12000
FVH (80°-90°)	620.3	2.6			G4/750
BL (0°-30°)	1594.9	6.7	B3/2500		
BM (30°-60°)	3993.7	16.8	B3/5000		
BH (60°-80°)	1675.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	99.0	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°	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4
2.5°	2675.9	2691.0	2687.2	2682.2	2682.2	2683.4	2682.2	2691.0	2699.8	2708.6
5°	2703.6	2718.7	2711.1	2704.8	2699.8	2698.5	2694.8	2693.5	2698.5	2709.9
7.5°	2757.8	2772.9	2761.6	2750.2	2740.1	2735.1	2730.0	2722.5	2718.7	2725.0
10°	2818.3	2833.4	2819.5	2799.4	2783.0	2776.7	2771.6	2764.1	2759.0	2762.8
12.5°	2878.8	2893.9	2875.0	2847.3	2825.8	2822.1	2815.8	2813.2	2812.0	2810.7
15°	2935.5	2948.1	2924.2	2891.4	2868.7	2862.4	2856.1	2859.9	2866.2	2873.7
17.5°	2979.6	2992.2	2956.9	2914.1	2892.6	2890.1	2886.3	2898.9	2916.6	2935.5
20°	3019.9	3032.5	2987.2	2929.2	2904.0	2904.0	2905.2	2931.7	2956.9	2984.7
22.5°	3076.7	3086.7	3031.3	2951.9	2915.3	2917.9	2927.9	2954.4	2985.9	3023.7
25°	3161.1	3168.7	3100.6	2994.7	2953.1	2960.7	2969.5	2982.1	3012.4	3056.5
27.5°	3297.2	3303.5	3214.0	3070.4	3007.3	3019.9	3032.5	3023.7	3037.6	3075.4
30°	3488.8	3492.6	3379.2	3188.8	3099.3	3105.7	3108.2	3071.6	3045.2	3075.4
32.5°	3715.7	3714.4	3579.6	3332.5	3204.0	3197.7	3176.2	3104.4	3042.6	3069.1
35°	4067.3	4053.5	3879.5	3534.2	3322.4	3283.4	3233.0	3140.9	3055.2	3062.8
37.5°	4649.7	4606.8	4366.1	3864.4	3498.9	3399.3	3325.0	3200.2	3083.0	3060.3
40°	5306.3	5252.1	4987.4	4316.9	3763.6	3603.5	3483.8	3284.6	3128.3	3071.6
42.5°	6085.3	6008.4	5723.5	4850.1	4098.9	3866.9	3686.7	3391.8	3195.1	3108.2
45°	7041.9	6939.8	6536.5	5451.3	4521.1	4212.3	3971.6	3554.4	3297.2	3178.8
47.5°	8008.6	8033.9	7460.4	6139.5	5027.8	4638.3	4328.2	3798.9	3446.0	3292.2
50°	9035.9	9053.5	8379.2	6902.0	5602.5	5119.8	4729.1	4072.4	3652.7	3453.5
52.5°	9837.5	9840.0	9213.6	7699.8	6201.2	5649.2	5161.4	4385.0	3892.1	3667.8
55°	10339.1	10332.8	9798.4	8454.8	6889.4	6205.0	5640.3	4740.4	4184.6	3919.9
57.5°	10703.4	10684.5	10201.8	9103.9	7623.0	6861.7	6182.3	5143.7	4529.9	4219.9
60°	10842.1	10830.7	10475.3	9664.8	8394.3	7587.7	6807.5	5595.0	4921.9	4574.0
62.5°	10895.0	10916.4	10743.7	10208.1	9219.9	8391.8	7494.4	6134.4	5363.0	4974.8
65°	11081.5	11120.6	11085.3	10918.9	10152.6	9333.3	8405.7	6776.0	5844.5	5404.6
67.5°	11450.8	11489.9	11505.0	11769.7	11292.0	10506.8	9542.6	7575.1	6407.9	5850.8
70°	11442.0	11430.7	11697.9	12446.6	12718.8	12131.5	11075.2	8558.2	7079.7	6221.4
72.5°	10414.8	10324.0	10955.5	12439.0	13906.1	13828.0	12946.9	9826.2	7659.5	6266.8
75°	7813.3	7571.3	8686.7	11210.1	14104.0	14790.9	14136.8	10612.7	7522.1	5537.0
77.5°	3341.3	3098.1	4412.7	8298.5	12623.0	13826.7	13045.2	9259.0	6004.6	3661.5
80°	874.7	873.5	1333.5	3762.3	8584.7	10210.6	8957.7	5979.4	3430.8	1308.3
82.5°	361.7	352.9	490.3	1463.3	4194.6	5729.8	4676.1	2667.0	1239.0	354.2
85°	134.9	133.6	238.2	505.4	1479.7	2363.3	1710.4	681.9	308.8	172.7
87.5°	37.8	36.6	51.7	175.2	360.5	547.0	292.4	112.2	87.0	68.1
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°
2717.4	0°	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4
2722.5	2.5°	2726.3	2732.6	2743.9	2752.7	2764.1	2776.7	2794.3	2805.7	2817.0	2824.6
2728.8	5°	2737.6	2751.5	2780.5	2809.5	2843.5	2875.0	2911.5	2938.0	2959.4	2965.7
2751.5	7.5°	2762.8	2785.5	2834.7	2883.8	2938.0	2989.7	3042.6	3088.0	3124.6	3138.4
2791.8	10°	2806.9	2837.2	2906.5	2975.8	3047.7	3127.1	3195.1	3260.7	3312.4	3333.8
2839.7	12.5°	2862.4	2900.2	2991.0	3086.7	3186.3	3296.0	3384.2	3464.9	3529.1	3558.1
2906.5	15°	2934.2	2983.4	3099.3	3227.9	3374.1	3526.6	3638.8	3728.3	3800.1	3835.4
2975.8	17.5°	3012.4	3077.9	3224.1	3418.2	3627.5	3827.9	3958.9	4024.5	4098.9	4132.9
3040.1	20°	3088.0	3168.7	3377.9	3660.2	3938.8	4151.8	4257.7	4275.3	4280.4	4284.1
3100.6	22.5°	3166.2	3274.5	3570.7	3965.3	4264.0	4411.4	4426.6	4350.9	4245.1	4195.9
3159.8	25°	3251.9	3395.5	3822.8	4301.8	4543.8	4561.4	4445.5	4261.4	4061.0	3969.0
3207.7	27.5°	3335.0	3535.5	4125.3	4623.2	4745.4	4590.4	4340.9	4079.9	3838.0	3740.9
3241.8	30°	3418.2	3695.5	4459.3	4904.3	4837.5	4518.6	4175.7	3884.6	3641.3	3539.2
3272.0	32.5°	3502.7	3882.1	4843.8	5107.2	4821.1	4366.1	3970.3	3665.3	3451.0	3343.9
3298.5	35°	3598.5	4111.5	5208.0	5218.1	4711.4	4141.7	3699.3	3403.1	3216.6	3130.9
3330.0	37.5°	3723.3	4402.6	5529.4	5245.8	4519.8	3812.7	3362.8	3093.0	2939.3	2900.2
3376.6	40°	3878.3	4753.0	5775.2	5201.7	4236.2	3413.2	2994.7	2779.2	2692.2	2701.1
3439.7	42.5°	4079.9	5145.0	5947.9	5088.3	3841.7	3001.0	2672.1	2576.3	2617.9	2653.2
3534.2	45°	4342.1	5552.1	6055.0	4895.4	3395.5	2651.9	2481.7	2504.4	2535.9	2539.7
3686.7	47.5°	4677.4	5964.3	6125.6	4604.3	2940.5	2406.1	2360.7	2365.8	2359.5	2333.0
3914.8	50°	5095.8	6365.1	6188.6	4218.6	2553.6	2252.4	2191.9	2174.2	2087.2	2001.5
4218.6	52.5°	5572.3	6733.1	6215.1	3739.6	2252.4	2123.8	2025.5	1914.6	1752.0	1725.5
4600.5	55°	6101.6	7073.4	6147.0	3151.0	1999.0	1958.7	1809.9	1676.3	1658.7	1636.0
5103.4	57.5°	6734.4	7440.2	6008.4	2494.4	1739.4	1765.8	1620.9	1636.0	1604.5	1569.2
5750.0	60°	7426.3	7819.6	5765.1	1895.7	1470.9	1525.1	1571.7	1570.5	1561.6	1532.7
6431.9	62.5°	8049.0	8069.1	5286.2	1452.0	1235.2	1338.6	1465.9	1464.6	1457.0	1440.6
7144.0	65°	8419.5	8031.3	4487.1	1143.2	1041.1	1184.8	1322.2	1332.3	1333.5	1332.3
7679.7	67.5°	8354.0	7588.9	3390.5	910.0	881.0	1028.5	1179.7	1193.6	1203.7	1206.2
7747.7	70°	7612.9	6617.2	2210.8	726.0	738.6	891.1	1044.9	1058.7	1067.6	1077.7
6723.0	72.5°	5934.0	4865.2	1265.5	587.4	613.8	772.6	911.3	927.7	932.7	951.6
4678.6	75°	3616.1	2861.1	683.1	462.6	504.2	660.5	778.9	797.8	806.7	829.4
2297.7	77.5°	1719.2	1239.0	389.5	360.5	405.9	539.5	657.9	679.4	655.4	668.0
634.0	80°	581.0	460.0	245.8	274.8	310.1	421.0	526.9	548.3	497.9	495.3
210.5	82.5°	202.9	186.5	156.3	182.8	200.4	301.2	398.3	426.0	370.6	369.3
94.5	85°	79.4	75.6	87.0	99.6	119.7	185.3	262.2	276.0	228.1	184.0
27.7	87.5°	16.4	17.6	21.4	22.7	36.6	64.3	94.5	116.0	92.0	78.1
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>
2717.4
2819.5
2968.3
3139.7
3335.0
3558.1
3832.9
4131.6
4294.2
4209.8
3982.9
3752.2
3550.6
3357.7
3149.8
2927.9
2731.3
2685.9
2564.9
2353.2
2012.9
1734.3
1639.8
1562.9
1522.6
1434.3
1332.3
1208.7
1082.7
959.2
<i>831.9</i>
657.9
490.3
351.7
181.5
71.8
0.0

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