

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: P950642

Luminaire Tested: **GALN-SB5A-740-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

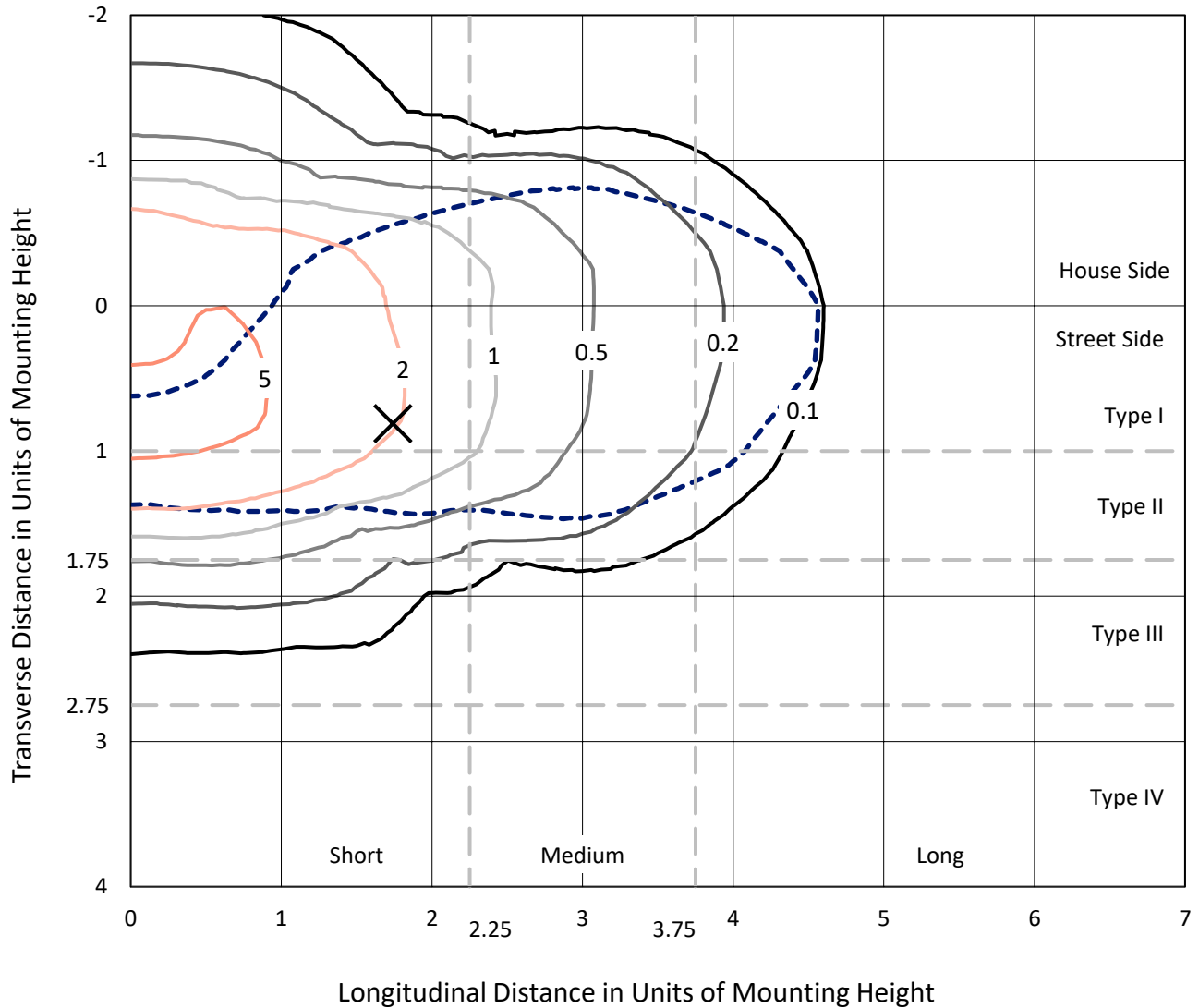
Lumens per Lamp: N/A  
Luminaire Lumens: 24294 lumens  
Efficiency: N/A  
Efficacy: 171.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

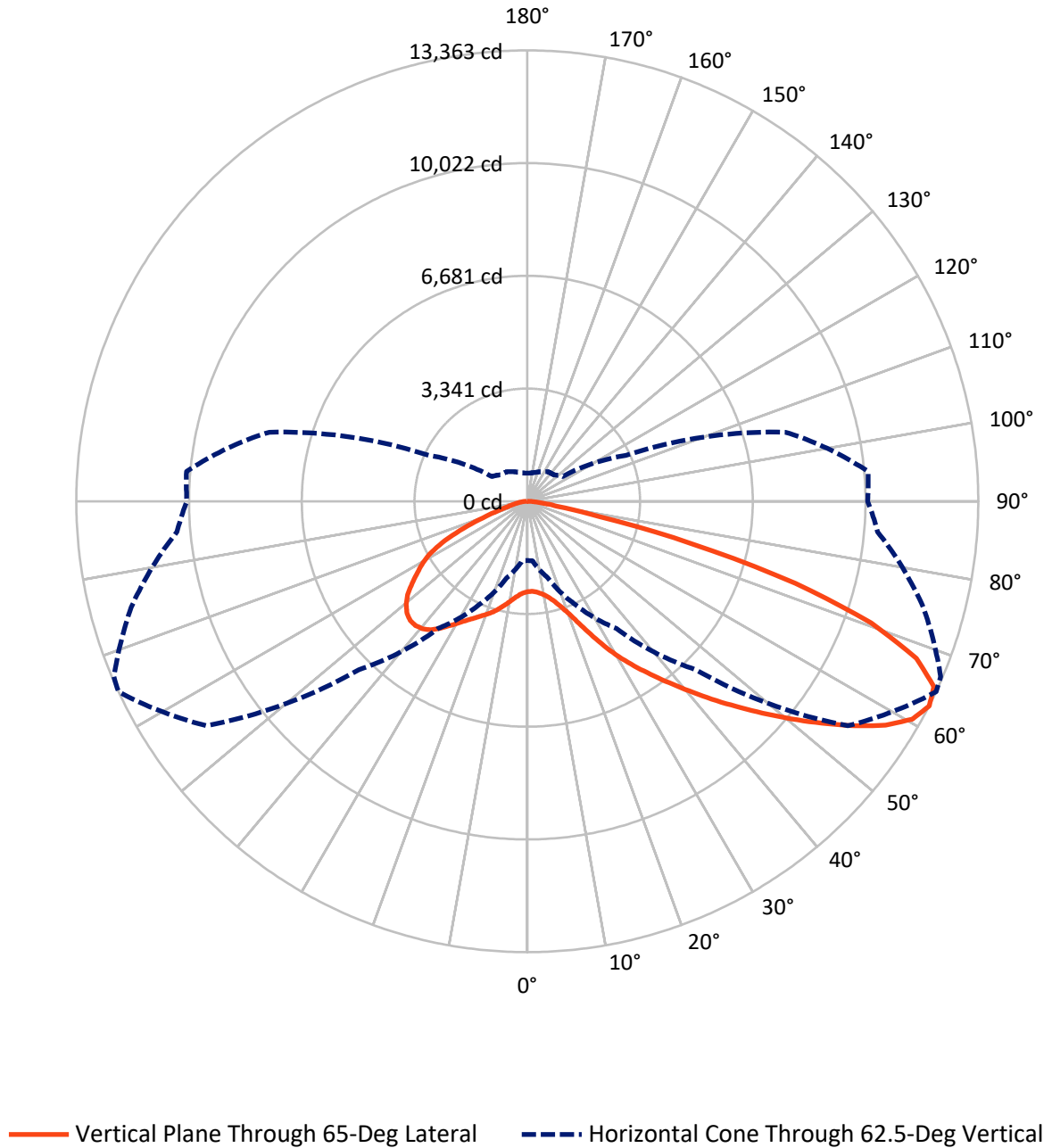
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7666.1	0.0	7666.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	16627.9	0.0	16627.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	24294.0	0.0	24294.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.9	1.1
10°-20°	905.1	3.7
20°-30°	1835.2	7.6
30°-40°	3175.7	13.1
40°-50°	4805.9	19.8
50°-60°	5634.6	23.2
60°-70°	4723.9	19.4
70°-80°	2608.0	10.7
80°-90°	338.8	1.4
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°	24294.0	100.0
0°-180°	24294.0	100.0



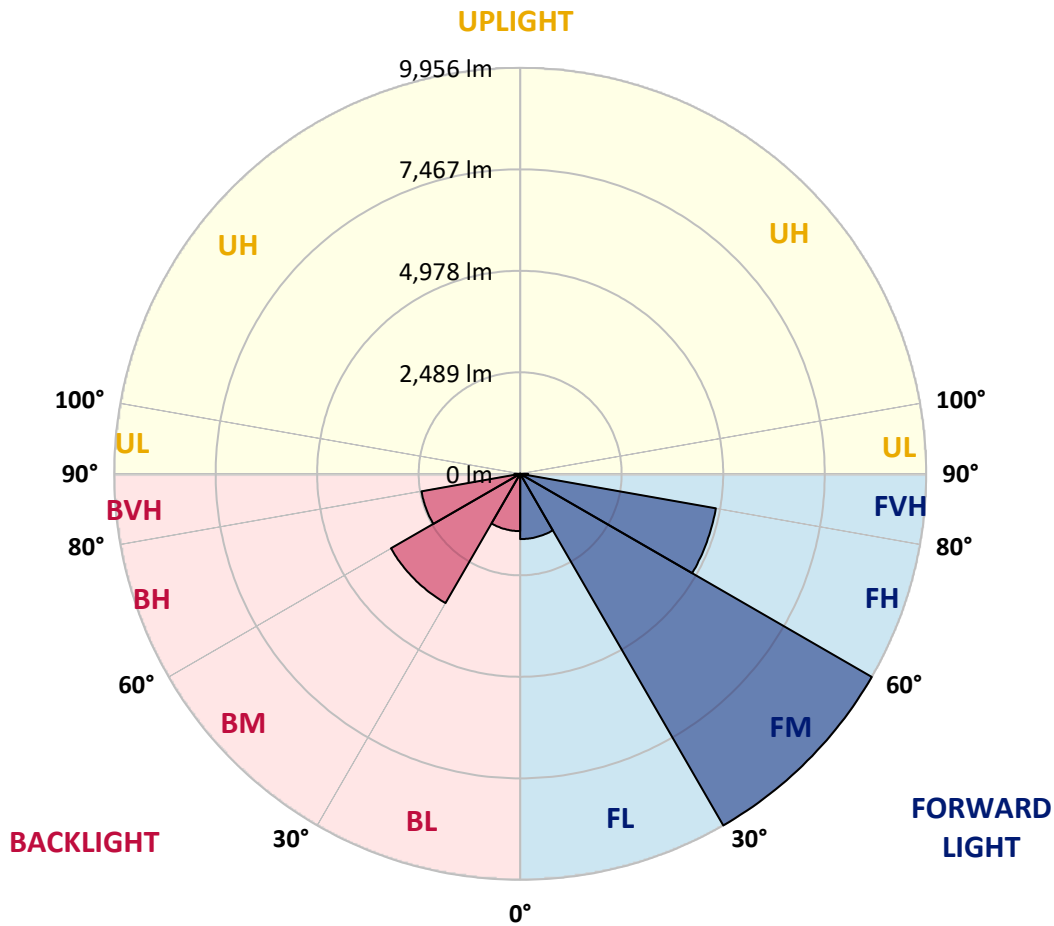
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1601.3	6.6			
FM (30°-60°)	9956.5	41.0			
FH (60°-80°)	4872.7	20.1			G2/5000
FVH (80°-90°)	197.4	0.8			G2/225
BL (0°-30°)	1405.9	5.8	B3/2500		
BM (30°-60°)	3659.7	15.1	B3/5000		
BH (60°-80°)	2459.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	141.3	0.6			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1
2.5°	2659.4	2651.9	2658.2	2658.2	2660.7	2659.4	2668.3	2670.8	2674.6	2682.1
5°	2633.0	2631.7	2643.1	2653.1	2663.2	2672.1	2683.4	2699.8	2702.3	2711.1
7.5°	2624.2	2616.6	2634.2	2646.8	2670.8	2692.2	2722.5	2750.2	2761.5	2765.3
10°	2692.2	2679.6	2696.0	2703.6	2723.7	2745.2	2780.4	2824.6	2837.2	2852.3
12.5°	2808.2	2794.3	2818.3	2829.6	2848.5	2867.4	2891.4	2934.2	2940.5	2968.2
15°	2967.0	2950.6	2965.7	2979.6	3011.1	3028.7	3052.7	3094.3	3094.3	3115.7
17.5°	3182.5	3161.1	3172.4	3177.5	3197.6	3224.1	3264.4	3301.0	3319.9	3312.3
20°	3503.9	3477.4	3477.4	3452.2	3444.7	3466.1	3519.0	3569.5	3589.6	3550.6
22.5°	3986.7	3948.8	3927.4	3841.7	3807.7	3810.2	3863.1	3924.9	3941.3	3872.0
25°	4600.5	4541.2	4512.2	4386.2	4309.3	4242.5	4284.1	4363.5	4386.2	4300.5
27.5°	5214.3	5218.1	5190.3	5039.1	4911.8	4789.5	4768.1	4851.3	4875.2	4778.2
30°	6075.1	5985.6	5932.7	5751.2	5569.7	5398.3	5310.1	5344.1	5350.4	5234.4
32.5°	6817.5	6794.8	6681.4	6522.6	6289.4	6020.9	5873.5	5819.3	5809.2	5644.1
35°	7663.2	7650.6	7530.9	7341.8	7089.8	6716.7	6450.7	6295.7	6283.1	6051.2
37.5°	8522.8	8522.8	8405.6	8198.9	7938.0	7471.7	7067.1	6821.3	6781.0	6478.5
40°	9208.5	9166.9	9188.3	9101.4	8802.6	8307.3	7751.5	7394.8	7340.6	6977.6
42.5°	9598.0	9584.1	9712.7	9809.7	9687.4	9291.7	8505.2	8016.2	7940.5	7527.1
45°	9684.9	9669.8	9899.2	10254.6	10426.0	10263.5	9324.5	8670.3	8578.3	8101.9
47.5°	9484.5	9454.3	9790.8	10351.7	10901.2	11187.3	10211.8	9379.9	9246.3	8661.5
50°	8882.1	8853.1	9362.3	10107.2	11061.3	11815.0	11174.7	10132.4	9928.2	9261.4
52.5°	7572.5	7586.4	8384.2	9407.6	10850.8	12205.7	12004.1	10925.2	10679.4	9875.2
55°	5898.7	5928.9	6909.5	8036.3	10008.9	12146.5	12570.0	11741.9	11497.4	10452.5
57.5°	4223.6	4357.2	5276.0	6391.5	8391.8	11207.5	12693.5	12518.3	12281.4	11082.7
60°	2737.6	2761.5	3706.8	4831.1	6390.2	9538.7	12442.7	13106.9	12921.6	11725.5
62.5°	1754.5	1770.9	2346.9	3379.1	4599.2	7057.0	11598.2	13362.8	13306.1	12150.3
65°	1289.4	1276.8	1576.8	2233.4	3098.1	4352.2	9958.4	13239.3	13351.4	12416.2
67.5°	1076.4	1058.7	1206.2	1546.5	2282.6	2471.6	7368.3	12436.4	12847.3	12386.0
70°	980.6	965.5	1055.0	1148.2	1780.9	1654.9	3714.4	10811.7	11444.4	12041.9
72.5°	830.6	804.1	926.4	1019.7	1385.2	1269.2	1535.2	8304.8	9076.2	10939.0
75°	644.1	626.4	731.0	897.4	1041.1	990.7	970.5	5042.9	5884.8	8459.8
77.5°	510.5	486.5	582.3	699.5	936.5	747.4	707.1	2171.7	3006.1	5400.8
80°	384.4	363.0	442.4	553.3	719.7	563.4	457.5	886.1	1133.1	2736.3
82.5°	273.5	254.6	308.8	405.8	484.0	505.4	281.1	496.6	558.4	1055.0
85°	175.2	163.9	206.7	254.6	307.5	325.2	171.4	259.6	284.9	434.8
87.5°	95.8	78.1	110.9	118.5	142.4	129.8	81.9	94.5	102.1	157.6
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°
2677.1	0°	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1	2677.1
2682.1	2.5°	2687.2	2691.0	2703.6	2707.3	2716.2	2727.5	2735.1	2742.6	2742.6	2750.2
2722.5	5°	2723.7	2732.6	2759.0	2772.9	2795.6	2818.3	2832.1	2848.5	2858.6	2863.6
2786.7	7.5°	2794.3	2808.2	2846.0	2869.9	2909.0	2940.5	2961.9	2984.6	2989.7	3003.5
2876.2	10°	2890.1	2906.5	2949.3	2994.7	3041.3	3080.4	3100.6	3117.0	3123.3	3125.8
2990.9	12.5°	2999.8	3023.7	3079.2	3134.6	3183.8	3217.8	3222.8	3219.1	3201.4	3186.3
3132.1	15°	3134.6	3156.0	3217.8	3278.3	3326.2	3332.5	3301.0	3280.8	3259.4	3255.6
3289.6	17.5°	3296.0	3307.3	3364.0	3423.3	3427.0	3405.6	3359.0	3340.1	3319.9	3306.0
3495.1	20°	3483.8	3480.0	3520.3	3545.5	3519.0	3453.5	3382.9	3351.4	3331.2	3314.9
3747.2	22.5°	3708.1	3679.1	3674.1	3667.8	3597.2	3459.8	3364.0	3323.7	3292.2	3269.5
4098.8	25°	4034.5	3923.6	3846.7	3803.9	3645.1	3425.8	3303.5	3214.0	3154.8	3115.7
4528.6	27.5°	4442.9	4256.4	4062.3	3957.7	3645.1	3356.5	3157.3	3012.4	2915.3	2875.0
4944.6	30°	4832.4	4637.0	4350.9	4142.9	3636.3	3243.0	2921.6	2719.9	2606.5	2566.2
5300.0	32.5°	5165.1	4952.1	4657.2	4345.9	3614.8	3059.0	2629.2	2406.1	2296.5	2248.6
5651.6	35°	5473.9	5247.1	4964.7	4569.0	3558.1	2789.3	2307.8	2137.6	2015.4	1938.5
6009.6	37.5°	5790.3	5520.6	5255.9	4770.6	3456.0	2474.2	2060.8	1915.8	1772.1	1668.8
6390.2	40°	6134.4	5811.7	5567.2	4890.4	3288.4	2174.2	1869.2	1736.8	1584.3	1474.7
6828.9	42.5°	6536.4	6160.8	5913.8	4952.1	3059.0	1961.2	1744.4	1614.6	1470.9	1381.4
7299.0	45°	6956.2	6545.3	6230.2	4950.9	2803.1	1861.6	1704.1	1575.5	1416.7	1323.4
7781.7	47.5°	7396.0	6947.3	6503.7	4870.2	2581.3	1875.5	1681.4	1491.1	1315.9	1225.1
8269.5	50°	7837.2	7387.2	6768.4	4718.9	2486.8	1845.2	1596.9	1372.6	1165.9	1083.9
8727.0	52.5°	8274.5	7854.8	6996.5	4503.4	2391.0	1733.1	1488.5	1218.8	1104.1	1047.4
9199.7	55°	8714.4	8317.4	7244.8	4189.6	2151.5	1602.0	1307.0	1160.8	1055.0	1003.3
9662.2	57.5°	9155.6	8851.8	7480.5	3875.7	1850.3	1440.6	1207.5	1090.2	1005.8	961.7
10049.2	60°	9614.3	9463.1	7723.7	3587.1	1552.8	1233.9	1134.4	1033.5	947.8	898.7
10421.0	62.5°	10087.0	10136.2	7914.1	3215.3	1279.3	1107.9	1068.8	965.5	882.3	835.6
10728.5	65°	10563.4	10785.3	8038.8	2699.8	1037.3	988.2	998.2	891.1	806.7	766.3
10954.2	67.5°	10922.6	11252.9	8003.6	2043.1	850.8	874.7	910.0	813.0	733.6	702.0
10917.6	70°	10963.0	11197.4	7655.7	1399.0	712.1	763.8	811.7	736.1	654.1	631.5
10403.4	72.5°	10426.0	10441.2	6686.4	913.8	602.5	670.5	708.3	657.9	578.5	555.8
9101.4	75°	9018.2	8635.0	4909.3	602.5	504.2	576.0	611.3	576.0	499.1	504.2
6810.0	77.5°	6832.6	6115.5	2980.9	428.5	421.0	484.0	531.9	506.7	441.1	495.3
3424.5	80°	3520.3	3308.6	1329.7	320.1	332.7	386.9	437.4	404.6	349.1	332.7
765.1	82.5°	806.7	937.7	524.3	229.4	240.7	278.5	334.0	303.8	250.8	211.7
318.9	85°	282.3	308.8	231.9	143.7	141.2	173.9	226.9	202.9	170.2	136.1
134.9	87.5°	89.5	117.2	87.0	58.0	60.5	78.1	104.6	95.8	79.4	51.7
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>
2677.1
2750.2
2866.2
2998.5
3119.5
3186.3
3255.6
3307.3
3316.1
3277.0
3130.8
2895.1
2590.1
2272.5
1963.7
1696.5
1496.1
1399.0
1338.5
1237.7
1089.0
1047.4
998.2
954.1
894.9
834.4
765.1
703.3
632.7
554.6
486.5
436.1
303.8
209.2
143.7
54.2
0.0

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