

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: P951104

Luminaire Tested: **GALN-SB5B-835-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951104  
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-SB5B-835-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

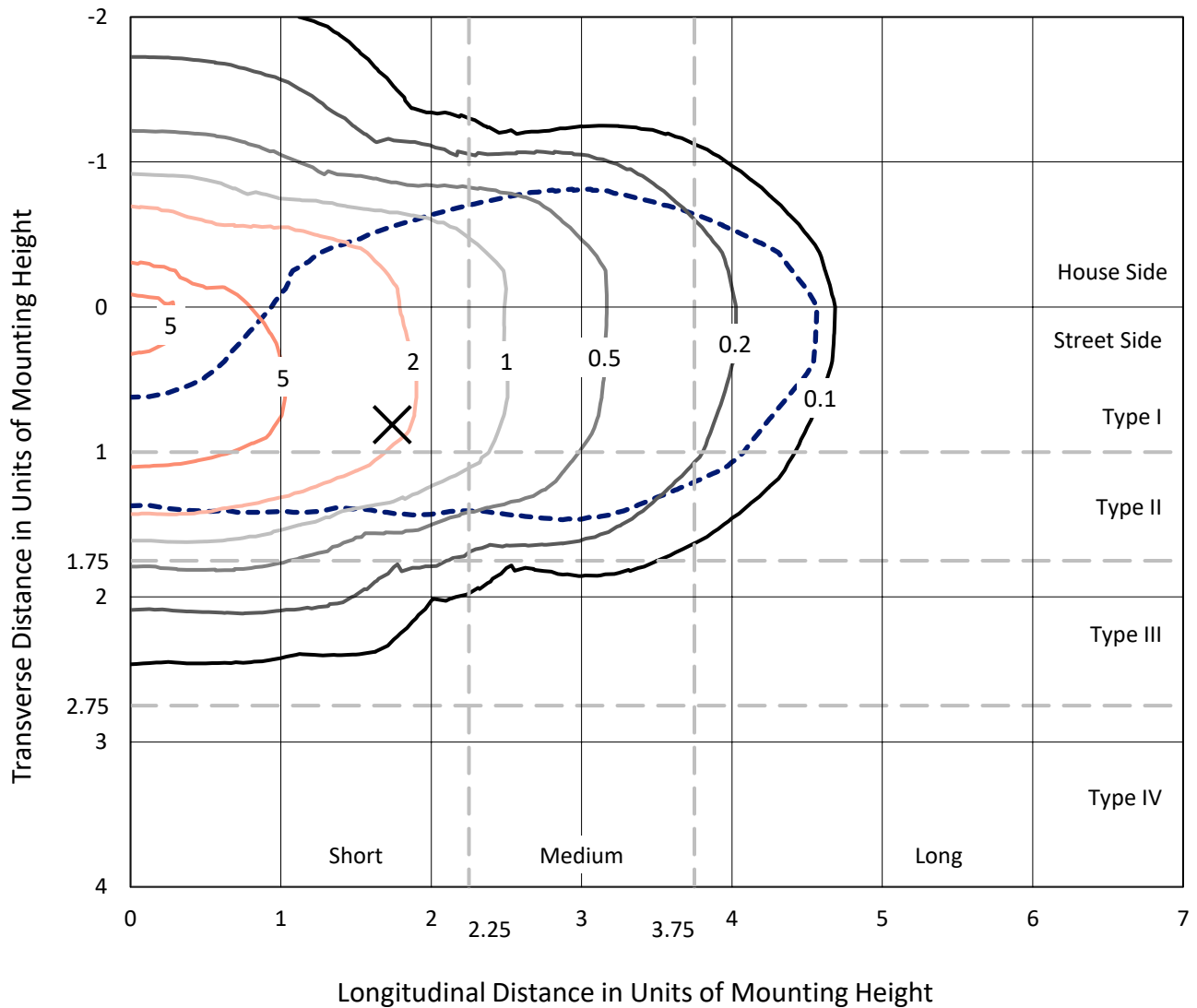
Lumens per Lamp: N/A  
Luminaire Lumens: 26737 lumens  
Efficiency: N/A  
Efficacy: 146.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

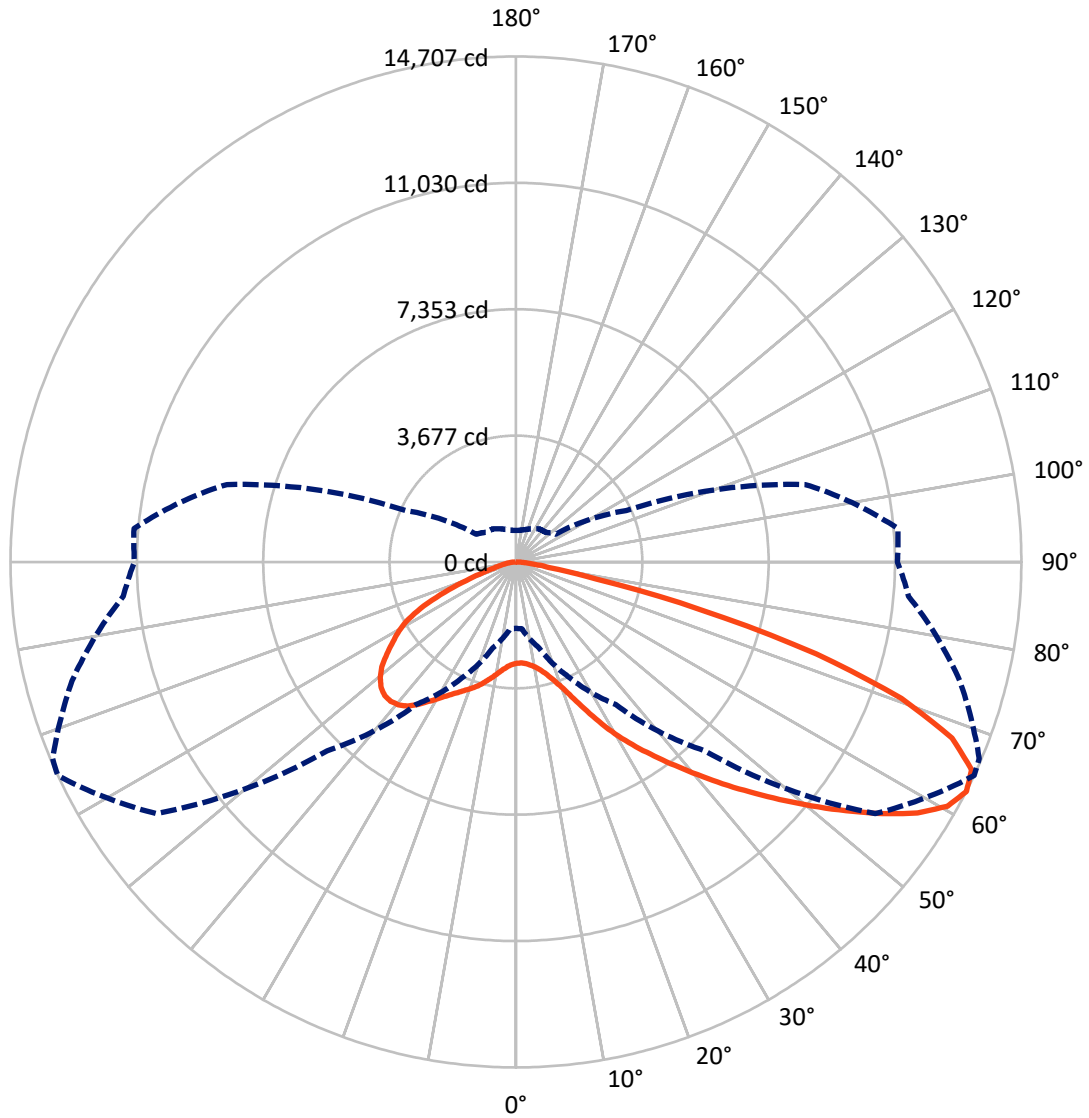
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8437.0	0.0	8437.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	18300.0	0.0	18300.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	26737.0	0.0	26737.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.7	1.1
10°-20°	996.1	3.7
20°-30°	2019.7	7.6
30°-40°	3495.1	13.1
40°-50°	5289.1	19.8
50°-60°	6201.2	23.2
60°-70°	5198.9	19.4
70°-80°	2870.2	10.7
80°-90°	372.8	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°	26737.0	100.0
0°-180°	26737.0	100.0



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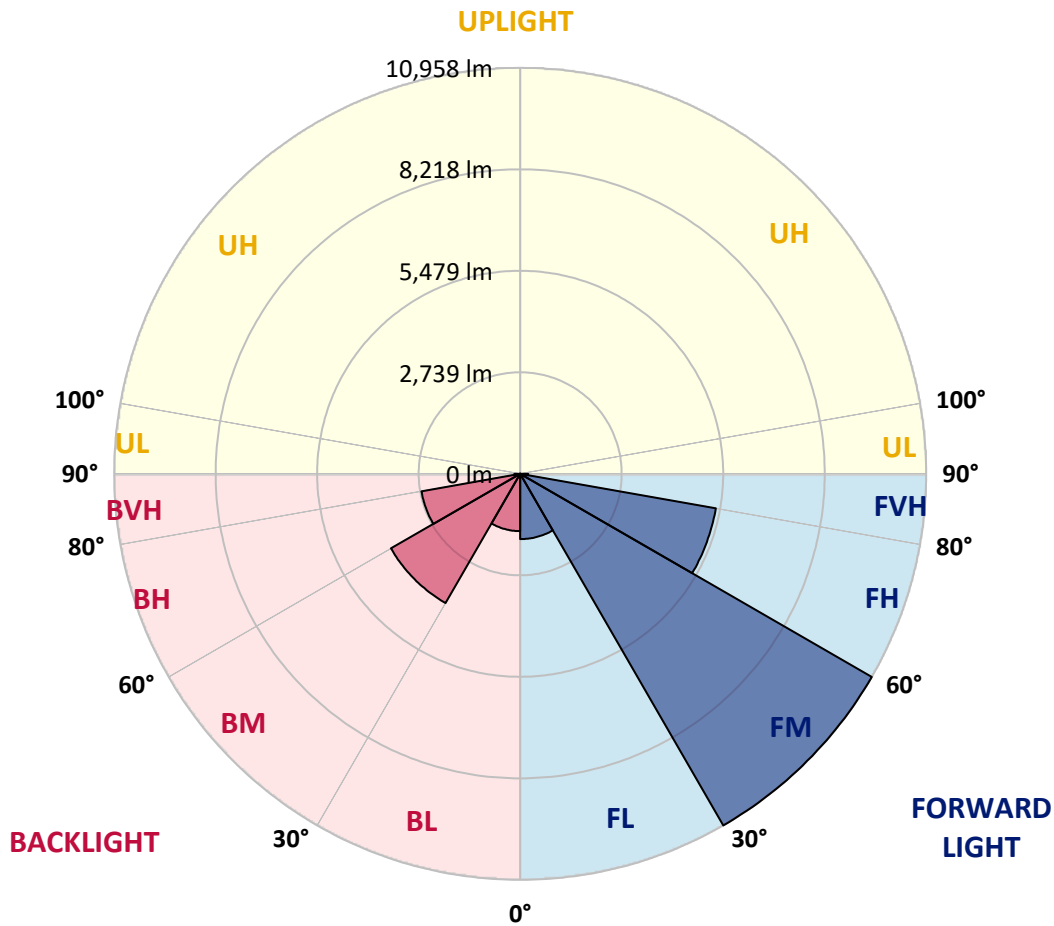
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.3	6.6			
FM (30°-60°)	10957.7	41.0			
FH (60°-80°)	5362.7	20.1			G3/7500
FVH (80°-90°)	217.3	0.8			G2/225
BL (0°-30°)	1547.2	5.8	B3/2500		
BM (30°-60°)	4027.7	15.1	B3/5000		
BH (60°-80°)	2706.5	10.1	B4/5000		G4/5000
BVH (80°-90°)	155.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3
2.5°	2926.9	2918.6	2925.5	2925.5	2928.3	2926.9	2936.6	2939.4	2943.5	2951.9
5°	2897.8	2896.4	2908.8	2919.9	2931.0	2940.8	2953.2	2971.3	2974.0	2983.8
7.5°	2888.0	2879.7	2899.1	2913.0	2939.4	2962.9	2996.2	3026.8	3039.2	3043.4
10°	2962.9	2949.1	2967.1	2975.4	2997.6	3021.2	3060.0	3108.6	3122.5	3139.1
12.5°	3090.6	3075.3	3101.7	3114.1	3135.0	3155.8	3182.1	3229.3	3236.2	3266.7
15°	3265.3	3247.3	3264.0	3279.2	3313.9	3333.3	3359.7	3405.4	3405.4	3429.0
17.5°	3502.5	3479.0	3491.5	3497.0	3519.2	3548.3	3592.7	3632.9	3653.7	3645.4
20°	3856.3	3827.1	3827.1	3799.4	3791.1	3814.7	3872.9	3928.4	3950.6	3907.6
22.5°	4387.5	4345.9	4322.4	4228.0	4190.6	4193.3	4251.6	4319.6	4337.6	4261.3
25°	5063.1	4997.9	4966.0	4827.3	4742.7	4669.1	4714.9	4802.3	4827.3	4732.9
27.5°	5738.6	5742.8	5712.3	5545.8	5405.7	5271.2	5247.6	5339.1	5365.5	5258.7
30°	6686.1	6587.6	6529.3	6329.6	6129.8	5941.2	5844.1	5881.5	5888.4	5760.8
32.5°	7503.1	7478.1	7353.3	7178.5	6921.9	6626.4	6464.1	6404.5	6393.4	6211.6
35°	8433.9	8420.0	8288.2	8080.1	7802.7	7392.1	7099.4	6928.8	6914.9	6659.7
37.5°	9379.9	9379.9	9250.9	9023.4	8736.3	8223.0	7777.7	7507.2	7462.9	7129.9
40°	10134.5	10088.7	10112.3	10016.6	9687.8	9142.7	8531.0	8138.4	8078.7	7679.2
42.5°	10563.1	10547.9	10689.4	10796.2	10661.6	10226.1	9360.5	8822.3	8739.0	8284.0
45°	10658.8	10642.2	10894.7	11285.8	11474.5	11295.5	10262.1	9542.2	9440.9	8916.6
47.5°	10438.3	10405.0	10775.4	11392.6	11997.4	12312.3	11238.7	10323.2	10176.1	9532.5
50°	9775.2	9743.3	10303.7	11123.5	12173.6	13003.1	12298.5	11151.3	10926.6	10192.8
52.5°	8334.0	8349.2	9227.3	10353.7	11942.0	13433.1	13211.2	12023.8	11753.3	10868.3
55°	6491.9	6525.1	7604.3	8844.5	11015.3	13367.9	13834.0	12922.7	12653.6	11503.6
57.5°	4648.3	4795.4	5806.6	7034.2	9235.6	12334.5	13970.0	13777.1	13516.4	12197.2
60°	3012.9	3039.2	4079.6	5316.9	7032.8	10497.9	13693.9	14424.9	14221.0	12904.6
62.5°	1930.9	1948.9	2582.9	3718.9	5061.7	7766.6	12764.5	14706.5	14644.1	13372.1
65°	1419.1	1405.2	1735.3	2458.0	3409.6	4789.8	10959.9	14570.6	14694.1	13664.8
67.5°	1184.6	1165.2	1327.5	1702.0	2512.1	2720.2	8109.3	13687.0	14139.2	13631.5
70°	1079.2	1062.6	1161.0	1263.7	1960.0	1821.3	4087.9	11899.0	12595.3	13252.8
72.5°	914.1	885.0	1019.6	1122.2	1524.5	1396.9	1689.5	9139.9	9988.8	12039.1
75°	708.8	689.4	804.5	987.6	1145.8	1090.3	1068.1	5550.0	6476.6	9310.5
77.5°	561.8	535.4	640.9	769.9	1030.7	822.6	778.2	2390.1	3308.3	5943.9
80°	423.1	399.5	486.9	609.0	792.1	620.1	503.5	975.2	1247.0	3011.5
82.5°	301.0	280.2	339.9	446.7	532.7	556.2	309.3	546.5	614.5	1161.0
85°	192.8	180.3	227.5	280.2	338.5	357.9	188.7	285.8	313.5	478.6
87.5°	105.4	86.0	122.1	130.4	156.7	142.9	90.2	104.0	112.4	173.4
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°
2946.3	0°	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3	2946.3
2951.9	2.5°	2957.4	2961.6	2975.4	2979.6	2989.3	3001.8	3010.1	3018.4	3018.4	3026.8
2996.2	5°	2997.6	3007.3	3036.5	3051.7	3076.7	3101.7	3116.9	3135.0	3146.1	3151.6
3067.0	7.5°	3075.3	3090.6	3132.2	3158.5	3201.5	3236.2	3259.8	3284.8	3290.3	3305.6
3165.5	10°	3180.7	3198.8	3245.9	3295.9	3347.2	3390.2	3412.4	3430.4	3437.4	3440.1
3291.7	12.5°	3301.4	3327.8	3388.8	3449.8	3503.9	3541.4	3546.9	3542.8	3523.4	3506.7
3447.1	15°	3449.8	3473.4	3541.4	3608.0	3660.7	3667.6	3632.9	3610.7	3587.2	3583.0
3620.5	17.5°	3627.4	3639.9	3702.3	3767.5	3771.7	3748.1	3696.7	3675.9	3653.7	3638.5
3846.6	20°	3834.1	3829.9	3874.3	3902.0	3872.9	3800.8	3723.1	3688.4	3666.2	3648.2
4124.0	22.5°	4081.0	4049.1	4043.5	4036.6	3958.9	3807.7	3702.3	3657.9	3623.2	3598.3
4511.0	25°	4440.3	4318.2	4233.6	4186.4	4011.6	3770.3	3635.7	3537.2	3472.0	3429.0
4984.0	27.5°	4889.7	4684.4	4470.8	4355.6	4011.6	3694.0	3474.8	3315.3	3208.5	3164.1
5441.8	30°	5318.3	5103.3	4788.4	4559.6	4001.9	3569.1	3215.4	2993.5	2868.6	2824.2
5833.0	32.5°	5684.5	5450.1	5125.5	4782.9	3978.3	3366.6	2893.6	2648.1	2527.4	2474.7
6220.0	35°	6024.4	5774.7	5464.0	5028.4	3915.9	3069.8	2539.9	2352.6	2218.0	2133.4
6613.9	37.5°	6372.6	6075.7	5784.4	5250.4	3803.6	2723.0	2268.0	2108.5	1950.3	1836.6
7032.8	40°	6751.2	6396.1	6127.0	5382.1	3619.1	2392.8	2057.1	1911.5	1743.6	1623.0
7515.6	42.5°	7193.7	6780.4	6508.5	5450.1	3366.6	2158.4	1919.8	1776.9	1618.8	1520.3
8033.0	45°	7655.7	7203.5	6856.7	5448.7	3085.0	2048.8	1875.4	1733.9	1559.2	1456.5
8564.2	47.5°	8139.8	7646.0	7157.7	5359.9	2840.9	2064.1	1850.5	1641.0	1448.2	1348.3
9101.1	50°	8625.3	8130.1	7449.0	5193.5	2736.8	2030.8	1757.5	1510.6	1283.1	1192.9
9604.6	52.5°	9106.6	8644.7	7700.1	4956.3	2631.4	1907.3	1638.2	1341.4	1215.1	1152.7
10124.8	55°	9590.7	9153.8	7973.3	4610.9	2367.9	1763.1	1438.5	1277.6	1161.0	1104.2
10633.9	57.5°	10076.2	9741.9	8232.7	4265.5	2036.3	1585.5	1328.9	1199.9	1106.9	1058.4
11059.7	60°	10581.2	10414.7	8500.4	3947.8	1709.0	1358.0	1248.4	1137.5	1043.1	989.0
11468.9	62.5°	11101.3	11155.4	8709.9	3538.6	1408.0	1219.3	1176.3	1062.6	971.0	919.7
11807.4	65°	11625.7	11869.8	8847.2	2971.3	1141.6	1087.5	1098.6	980.7	887.8	843.4
12055.7	67.5°	12021.0	12384.5	8808.4	2248.6	936.3	962.7	1001.5	894.7	807.3	772.6
12015.5	70°	12065.4	12323.4	8425.5	1539.7	783.7	840.6	893.3	810.1	719.9	695.0
11449.5	72.5°	11474.5	11491.1	7358.8	1005.7	663.1	738.0	779.6	724.1	636.7	611.7
10016.6	75°	9925.0	9503.3	5402.9	663.1	554.9	633.9	672.8	633.9	549.3	554.9
7494.8	77.5°	7519.7	6730.4	3280.6	471.6	463.3	532.7	585.4	557.6	485.5	545.1
3768.9	80°	3874.3	3641.3	1463.4	352.3	366.2	425.9	481.3	445.3	384.2	366.2
842.0	82.5°	887.8	1032.0	577.1	252.5	264.9	306.6	367.6	334.3	276.0	233.0
350.9	85°	310.7	339.9	255.2	158.1	155.4	191.4	249.7	223.3	187.3	149.8
148.4	87.5°	98.5	129.0	95.7	63.8	66.6	86.0	115.1	105.4	87.4	56.9
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

180°
2946.3
3026.8
3154.4
3300.0
3433.2
3506.7
3583.0
3639.9
3649.6
3606.6
3445.7
3186.3
2850.6
2501.0
2161.2
1867.1
1646.5
1539.7
1473.2
1362.2
1198.5
1152.7
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696.3
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