

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: P951146

Luminaire Tested: **GALN-SB5B-850-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951146  
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-850-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

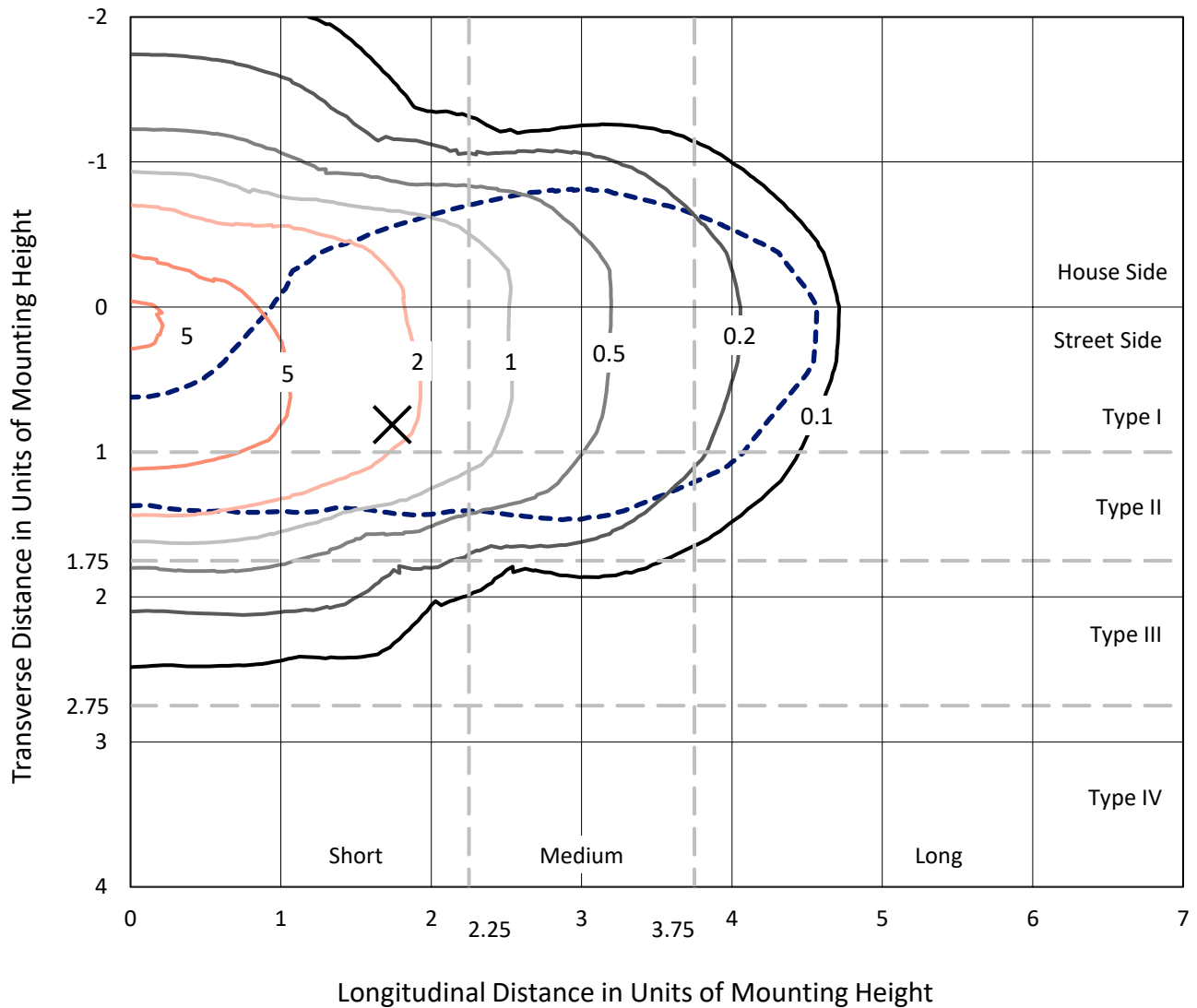
Lumens per Lamp: N/A  
Luminaire Lumens: 27573 lumens  
Efficiency: N/A  
Efficacy: 150.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

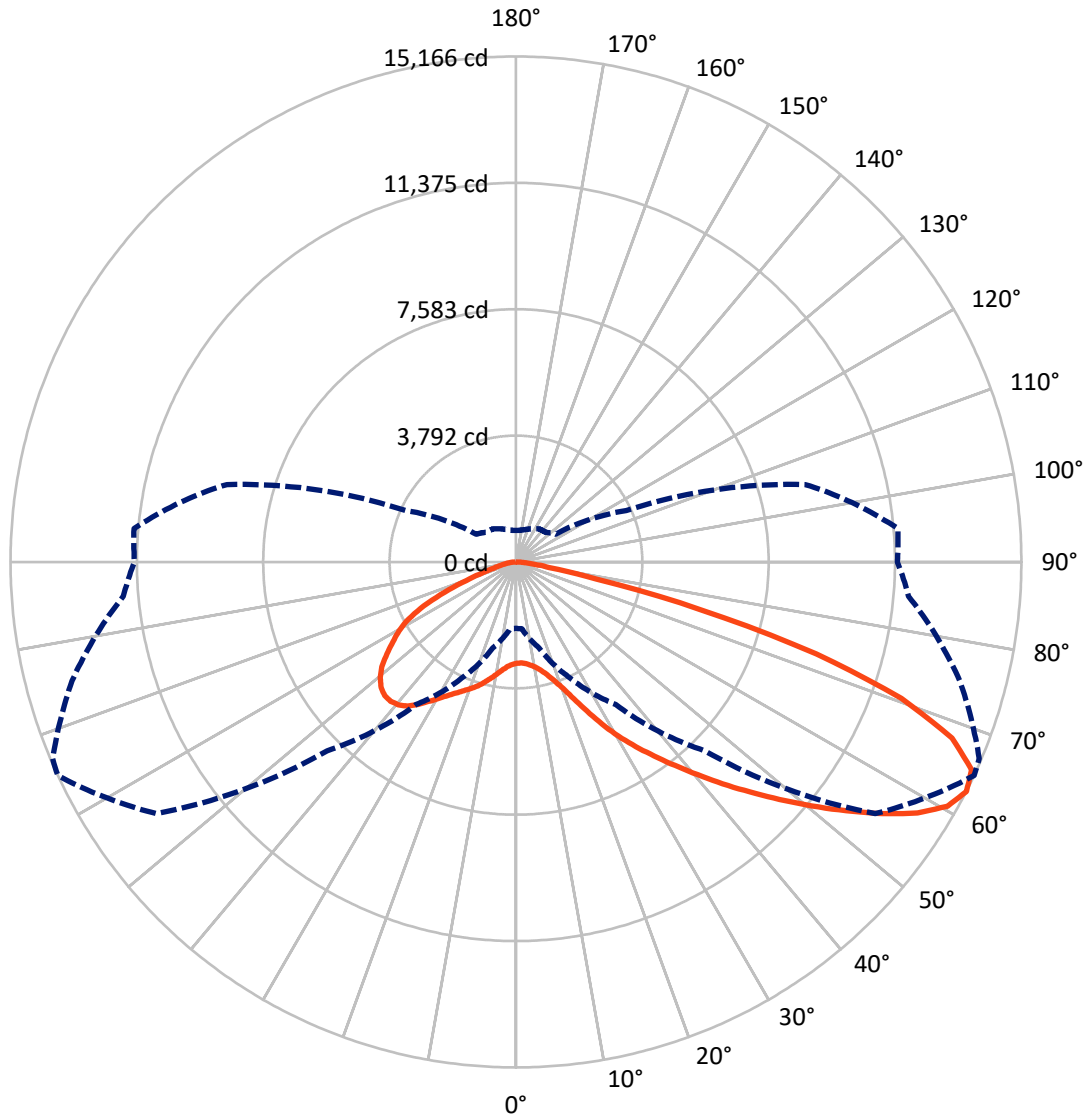
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	8700.8	0.0	8700.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	18872.2	0.0	18872.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	27573.0	0.0	27573.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.9	1.1
10°-20°	1027.3	3.7
20°-30°	2082.9	7.6
30°-40°	3604.4	13.1
40°-50°	5454.5	19.8
50°-60°	6395.1	23.2
60°-70°	5361.5	19.4
70°-80°	2960.0	10.7
80°-90°	384.5	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°	27573.0	100.0
0°-180°	27573.0	100.0

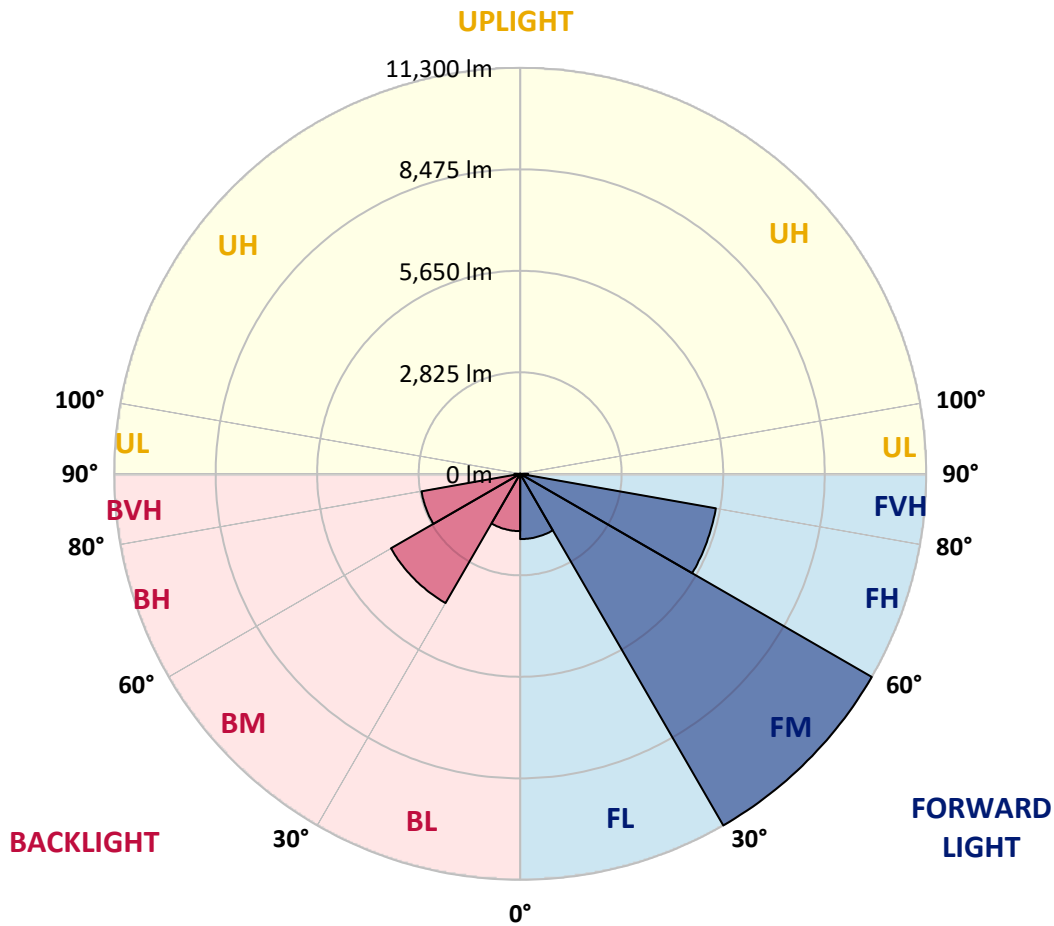


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.4	6.6			
FM (30°-60°)	11300.3	41.0			
FH (60°-80°)	5530.3	20.1			G3/7500
FVH (80°-90°)	224.1	0.8			G2/225
BL (0°-30°)	1595.6	5.8	B3/2500		
BM (30°-60°)	4153.7	15.1	B3/5000		
BH (60°-80°)	2791.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	160.4	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°	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4
2.5°	3018.4	3009.8	3017.0	3017.0	3019.8	3018.4	3028.4	3031.3	3035.6	3044.1
5°	2988.4	2986.9	2999.8	3011.2	3022.7	3032.7	3045.6	3064.2	3067.0	3077.0
7.5°	2978.3	2969.8	2989.8	3004.1	3031.3	3055.6	3089.9	3121.4	3134.3	3138.6
10°	3055.6	3041.3	3059.9	3068.5	3091.4	3115.7	3155.7	3205.8	3220.1	3237.3
12.5°	3187.2	3171.5	3198.6	3211.5	3233.0	3254.4	3281.6	3330.3	3337.4	3368.9
15°	3367.4	3348.8	3366.0	3381.7	3417.5	3437.5	3464.7	3511.9	3511.9	3536.2
17.5°	3612.1	3587.7	3600.6	3606.3	3629.2	3659.3	3705.0	3746.5	3768.0	3759.4
20°	3976.8	3946.8	3946.8	3918.2	3909.6	3933.9	3994.0	4051.2	4074.1	4029.8
22.5°	4524.7	4481.8	4457.5	4360.2	4321.6	4324.5	4384.5	4454.6	4473.2	4394.6
25°	5221.4	5154.2	5121.3	4978.2	4890.9	4815.1	4862.3	4952.5	4978.2	4880.9
27.5°	5918.1	5922.4	5890.9	5719.2	5574.7	5436.0	5411.7	5506.1	5533.3	5423.1
30°	6895.1	6793.5	6733.5	6527.5	6321.5	6126.9	6026.8	6065.4	6072.6	5941.0
32.5°	7737.7	7711.9	7583.2	7402.9	7138.3	6833.6	6666.2	6604.7	6593.3	6405.9
35°	8697.6	8683.3	8547.4	8332.8	8046.7	7623.2	7321.4	7145.4	7131.1	6867.9
37.5°	9673.2	9673.2	9540.1	9305.5	9009.4	8480.1	8020.9	7742.0	7696.2	7352.9
40°	10451.4	10404.2	10428.5	10329.8	9990.8	9428.6	8797.7	8392.9	8331.4	7919.4
42.5°	10893.4	10877.7	11023.6	11133.7	10995.0	10545.8	9653.2	9098.1	9012.3	8543.1
45°	10992.1	10975.0	11235.3	11638.7	11833.3	11648.7	10583.0	9840.5	9736.1	9195.4
47.5°	10764.7	10730.3	11112.3	11748.9	12372.6	12697.3	11590.1	10645.9	10494.3	9830.5
50°	10080.9	10048.0	10625.9	11471.3	12554.2	13409.7	12683.0	11500.0	11268.2	10511.5
52.5°	8594.6	8610.3	9515.8	10677.4	12315.3	13853.2	13624.3	12399.7	12120.8	11208.1
55°	6694.8	6729.2	7842.1	9121.0	11359.8	13785.9	14266.6	13326.7	13049.2	11863.3
57.5°	4793.7	4945.3	5988.2	7254.2	9524.4	12720.2	14406.8	14207.9	13939.0	12578.6
60°	3107.1	3134.3	4207.2	5483.2	7252.7	10826.2	14122.1	14876.0	14665.7	13308.1
62.5°	1991.3	2009.9	2663.6	3835.2	5220.0	8009.5	13163.6	15166.4	15102.0	13790.2
65°	1463.4	1449.1	1789.6	2534.9	3516.2	4939.6	11302.5	15026.2	15153.5	14092.1
67.5°	1221.7	1201.6	1369.0	1755.2	2590.7	2805.3	8362.8	14114.9	14581.3	14057.7
70°	1112.9	1095.8	1197.3	1303.2	2021.3	1878.3	4215.7	12271.0	12989.1	13667.2
72.5°	942.7	912.7	1051.4	1157.3	1572.1	1440.5	1742.4	9425.7	10301.2	12415.5
75°	731.0	711.0	829.7	1018.5	1181.6	1124.4	1101.5	5723.5	6679.1	9601.7
77.5°	579.4	552.2	660.9	793.9	1062.9	848.3	802.5	2464.8	3411.8	6129.8
80°	436.3	412.0	502.1	628.0	816.8	639.4	519.3	1005.7	1286.0	3105.7
82.5°	310.4	289.0	350.5	460.6	549.3	573.6	319.0	563.6	633.7	1197.3
85°	198.8	186.0	234.6	289.0	349.0	369.1	194.6	294.7	323.3	493.5
87.5°	108.7	88.7	125.9	134.5	161.6	147.3	93.0	107.3	115.9	178.8
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°
3038.4	0°	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4
3044.1	2.5°	3049.9	3054.2	3068.5	3072.8	3082.8	3095.6	3104.2	3112.8	3112.8	3121.4
3089.9	5°	3091.4	3101.4	3131.4	3147.1	3172.9	3198.6	3214.4	3233.0	3244.4	3250.1
3162.9	7.5°	3171.5	3187.2	3230.1	3257.3	3301.6	3337.4	3361.7	3387.5	3393.2	3408.9
3264.4	10°	3280.2	3298.8	3347.4	3398.9	3451.8	3496.2	3519.1	3537.7	3544.8	3547.7
3394.6	12.5°	3404.6	3431.8	3494.8	3557.7	3613.5	3652.1	3657.8	3653.5	3633.5	3616.4
3554.8	15°	3557.7	3582.0	3652.1	3720.8	3775.1	3782.3	3746.5	3723.6	3699.3	3695.0
3733.7	17.5°	3740.8	3753.7	3818.1	3885.3	3889.6	3865.3	3812.3	3790.9	3768.0	3752.3
3966.8	20°	3954.0	3949.7	3995.4	4024.1	3994.0	3919.6	3839.5	3803.8	3780.9	3762.3
4252.9	22.5°	4208.6	4175.7	4170.0	4162.8	4082.7	3926.8	3818.1	3772.3	3736.5	3710.8
4652.1	25°	4579.1	4453.2	4365.9	4317.3	4137.1	3888.2	3749.4	3647.8	3580.6	3536.2
5139.9	27.5°	5042.6	4830.9	4610.6	4491.8	4137.1	3809.5	3583.5	3418.9	3308.8	3263.0
5611.9	30°	5484.6	5262.9	4938.2	4702.1	4127.1	3680.7	3315.9	3087.1	2958.3	2912.5
6015.3	32.5°	5862.3	5620.5	5285.8	4932.4	4102.7	3471.9	2984.1	2730.9	2606.4	2552.0
6414.5	35°	6212.7	5955.3	5634.8	5185.6	4038.4	3165.7	2619.3	2426.2	2287.4	2200.1
6820.7	37.5°	6571.8	6265.7	5965.3	5414.5	3922.5	2808.1	2338.9	2174.4	2011.3	1894.0
7252.7	40°	6962.3	6596.1	6318.6	5550.4	3732.2	2467.6	2121.5	1971.3	1798.2	1673.7
7750.6	42.5°	7418.7	6992.4	6712.0	5620.5	3471.9	2225.9	1979.8	1832.5	1669.4	1567.9
8284.1	45°	7895.0	7428.7	7071.1	5619.1	3181.5	2112.9	1934.1	1788.2	1607.9	1502.0
8832.0	47.5°	8394.3	7885.0	7381.5	5527.5	2929.7	2128.6	1908.3	1692.3	1493.5	1390.5
9385.6	50°	8895.0	8384.3	7681.9	5355.9	2822.4	2094.3	1812.5	1557.8	1323.2	1230.2
9904.9	52.5°	9391.4	8915.0	7940.8	5111.2	2713.7	1967.0	1689.4	1383.3	1253.1	1188.8
10441.4	55°	9890.6	9440.0	8222.6	4755.0	2441.9	1818.2	1483.4	1317.5	1197.3	1138.7
10966.4	57.5°	10391.3	10046.5	8490.1	4398.8	2100.0	1635.1	1370.4	1237.4	1141.6	1091.5
11405.5	60°	10912.0	10740.3	8766.2	4071.3	1762.4	1400.5	1287.5	1173.0	1075.8	1020.0
11827.5	62.5°	11448.5	11504.2	8982.2	3649.3	1452.0	1257.4	1213.1	1095.8	1001.4	948.4
12176.6	65°	11989.2	12241.0	9123.9	3064.2	1177.3	1121.5	1133.0	1011.4	915.5	869.8
12432.7	67.5°	12396.9	12771.7	9083.8	2318.9	965.6	992.8	1032.8	922.7	832.6	796.8
12391.2	70°	12442.7	12708.7	8689.0	1587.9	808.2	866.9	921.3	835.4	742.4	716.7
11807.5	72.5°	11833.3	11850.4	7588.9	1037.1	683.8	761.0	804.0	746.7	656.6	630.9
10329.8	75°	10235.4	9800.5	5571.9	683.8	572.2	653.7	693.8	653.7	566.5	572.2
7729.1	77.5°	7754.9	6940.9	3383.2	486.4	477.8	549.3	603.7	575.1	500.7	562.2
3886.7	80°	3995.4	3755.1	1509.2	363.4	377.7	439.2	496.4	459.2	396.3	377.7
868.3	82.5°	915.5	1064.3	595.1	260.4	273.2	316.1	379.1	344.8	284.7	240.3
361.9	85°	320.4	350.5	263.2	163.1	160.2	197.4	257.5	230.3	193.1	154.5
153.1	87.5°	101.6	133.0	98.7	65.8	68.7	88.7	118.7	108.7	90.1	58.7
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>
3038.4
3121.4
3253.0
3403.2
3540.5
3616.4
3695.0
3753.7
3763.7
3719.4
3553.4
3285.9
2939.7
2579.2
2228.8
1925.5
1698.0
1587.9
1519.2
1404.8
1236.0
1188.8
1133.0
1082.9
1015.7
947.0
868.3
798.2
718.1
629.4
552.2
495.0
344.8
237.5
163.1
61.5
0.0

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