

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: P950791

Luminaire Tested: **GALN-SB5A-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22251 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

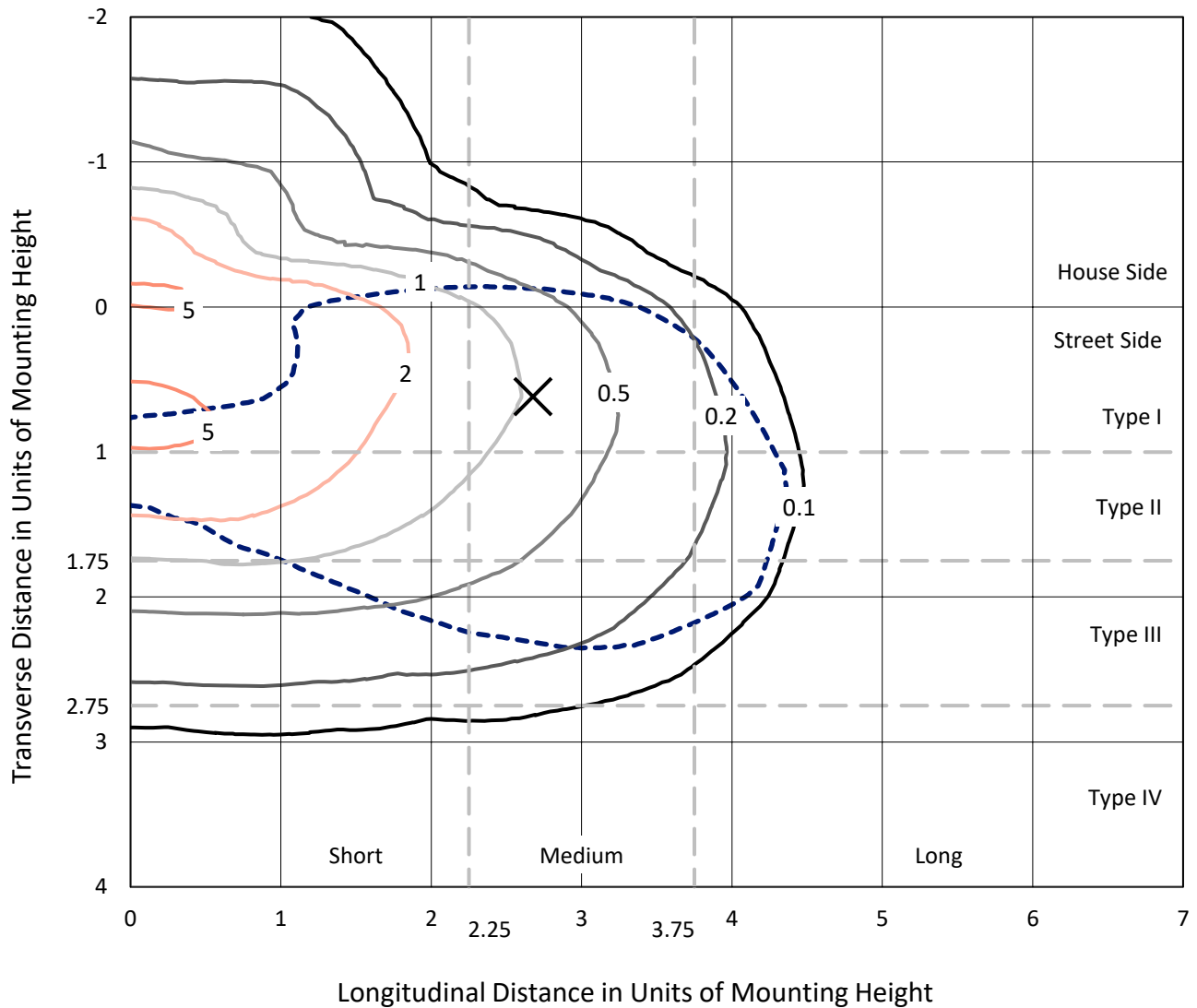
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

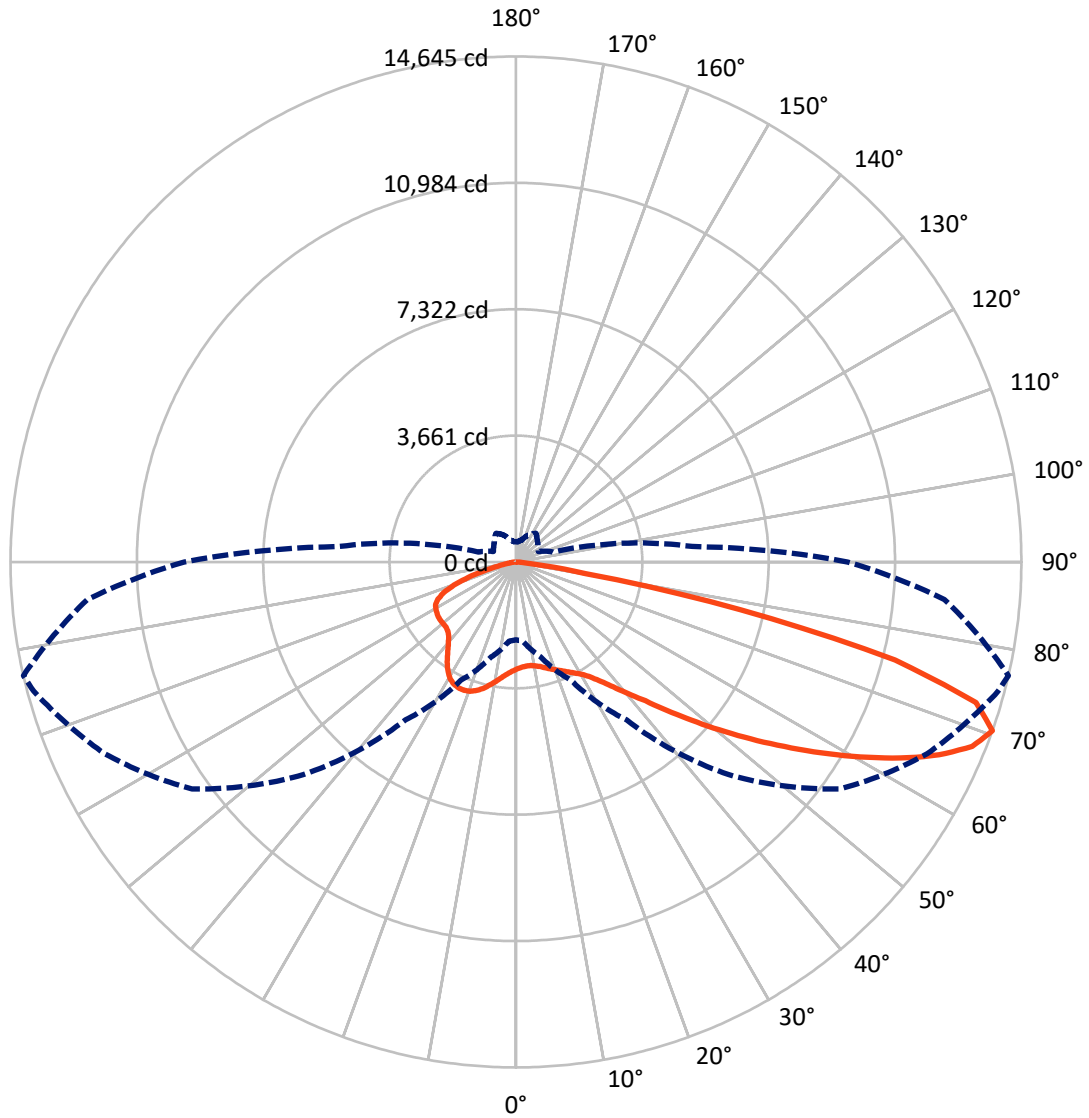
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4872.6	0.0	4872.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	17378.4	0.0	17378.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	22251.0	0.0	22251.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.1	1.3
10°-20°	854.5	3.8
20°-30°	1461.2	6.6
30°-40°	2349.8	10.6
40°-50°	3668.7	16.5
50°-60°	4900.5	22.0
60°-70°	5223.2	23.5
70°-80°	3215.3	14.5
80°-90°	281.7	1.3
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°	22251.0	100.0
0°-180°	22251.0	100.0



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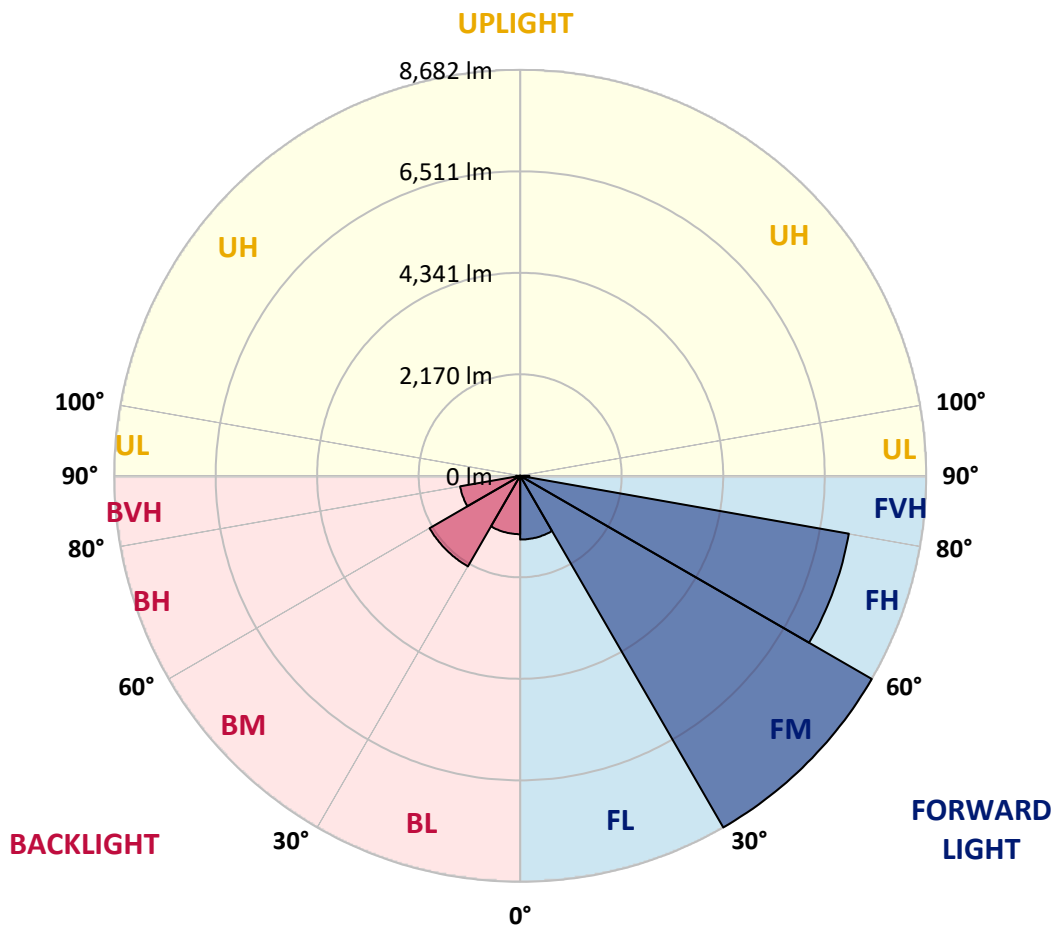
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1363.2	6.1			
FM (30°-60°)	8681.9	39.0			
FH (60°-80°)	7136.3	32.1			G3/7500
FVH (80°-90°)	197.0	0.9			G2/225
BL (0°-30°)	1248.5	5.6	B3/2500		
BM (30°-60°)	2237.1	10.1	B2/2500		
BH (60°-80°)	1302.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	84.7	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2
2.5°	2861.5	2860.3	2875.2	2879.7	2907.1	2926.4	2962.9	3001.7	3051.8	3057.5
5°	2696.2	2696.2	2713.3	2731.6	2766.9	2805.6	2861.5	2928.7	3015.3	3029.0
7.5°	2556.1	2565.2	2580.0	2615.3	2656.4	2712.2	2797.7	2893.4	3007.4	3029.0
10°	2443.3	2453.5	2471.8	2500.2	2561.8	2639.3	2750.9	2874.0	3026.7	3060.9
12.5°	2407.9	2418.2	2428.4	2450.1	2507.1	2598.2	2731.6	2883.1	3073.4	3107.6
15°	2490.0	2502.5	2494.5	2488.8	2518.5	2601.7	2740.7	2916.2	3131.6	3180.6
17.5°	2679.2	2683.7	2665.5	2611.9	2607.4	2651.8	2784.0	2961.8	3204.5	3258.1
20°	2984.6	2976.6	2939.0	2833.0	2772.6	2763.5	2858.1	3030.1	3279.7	3336.7
22.5°	3399.4	3390.3	3315.0	3147.5	3013.1	2924.2	2965.2	3119.0	3364.0	3427.9
25°	3916.7	3904.2	3793.7	3565.7	3357.2	3137.3	3111.1	3236.4	3467.7	3527.0
27.5°	4520.7	4510.5	4390.8	4090.0	3789.1	3429.0	3292.2	3374.3	3576.0	3643.2
30°	5170.3	5199.9	4987.9	4664.3	4283.7	3809.6	3536.1	3544.1	3716.2	3776.6
32.5°	5933.8	5985.1	5729.8	5319.6	4799.9	4223.3	3843.8	3781.1	3920.2	3970.3
35°	6690.5	6748.6	6536.6	6083.1	5484.8	4711.0	4165.2	4053.5	4191.4	4246.1
37.5°	7344.6	7422.1	7312.7	6918.4	6217.6	5299.0	4584.5	4373.7	4525.3	4593.6
40°	7860.8	7979.3	7971.4	7725.2	7081.4	6012.4	5116.7	4769.1	4940.1	5014.2
42.5°	8280.2	8382.8	8471.6	8459.1	7982.8	6822.7	5742.3	5283.1	5413.0	5498.5
45°	8569.6	8679.0	8870.5	9076.8	8850.0	7689.9	6459.1	5892.8	6011.3	6140.1
47.5°	8828.3	8952.5	9201.0	9528.0	9586.2	8560.5	7244.3	6602.7	6711.0	6844.3
50°	8851.1	8958.2	9343.4	9807.2	10109.2	9397.0	8087.6	7399.3	7500.7	7643.2
52.5°	8300.7	8469.4	9141.7	9799.3	10349.7	10096.7	8925.2	8227.8	8341.7	8512.7
55°	6443.2	6690.5	8550.3	9493.8	10264.2	10549.1	9721.8	9108.7	9254.5	9433.4
57.5°	5549.8	5658.0	6787.3	8937.7	9874.5	10666.5	10394.1	9998.7	10233.4	10429.4
60°	4987.9	5078.0	5745.8	8072.8	9361.7	10480.7	10913.8	10828.3	11234.0	11467.6
62.5°	4386.2	4471.7	5079.1	6740.6	8705.3	10171.9	11242.0	11594.1	12259.6	12514.9
65°	3789.1	3862.0	4444.4	5663.7	7871.1	9863.1	11411.8	12256.2	13208.9	13473.3
67.5°	3123.6	3184.0	3734.4	4778.3	6856.9	9440.3	11496.1	12777.0	14035.1	14261.9
70°	2254.1	2300.8	2869.5	3778.8	5583.9	8713.2	11461.9	13146.2	14463.6	14644.7
72.5°	1065.5	1107.7	1775.5	2453.5	3944.1	7297.9	10770.2	12853.3	14028.2	13938.2
75°	568.7	605.1	1019.9	1345.8	2083.2	5002.8	8813.5	11072.2	11779.8	11342.2
77.5°	385.2	413.7	631.3	808.0	951.5	2374.9	5664.9	7666.0	7375.4	6652.9
80°	305.4	335.0	517.4	547.0	460.4	858.1	2340.7	3548.7	2549.2	2038.7
82.5°	234.8	267.8	435.3	396.6	250.7	352.1	681.5	1122.5	653.0	496.9
85°	143.6	178.9	341.9	253.0	141.3	160.7	231.3	312.2	199.4	166.4
87.5°	72.9	102.6	173.2	92.3	63.8	37.6	61.5	61.5	52.4	45.6
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°
3104.2	0°	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2	3104.2
3088.3	2.5°	3115.6	3138.4	3177.2	3213.6	3242.1	3269.5	3296.8	3311.6	3316.2	3334.4
3105.4	5°	3152.1	3194.2	3269.5	3340.1	3384.6	3411.9	3431.3	3442.7	3445.0	3450.6
3152.1	7.5°	3219.3	3286.6	3391.4	3462.0	3495.1	3492.8	3484.8	3456.3	3445.0	3434.7
3220.5	10°	3313.9	3402.8	3531.6	3580.6	3560.0	3505.3	3434.7	3351.5	3312.8	3275.2
3313.9	12.5°	3431.3	3544.1	3670.6	3668.3	3566.9	3426.7	3262.6	3135.0	3054.1	2996.0
3429.0	15°	3573.7	3703.6	3800.5	3723.0	3500.8	3248.9	3008.5	2842.1	2769.2	2705.4
3545.2	17.5°	3720.7	3859.8	3904.2	3705.9	3334.4	2985.7	2713.3	2582.3	2510.5	2476.3
3670.6	20°	3864.3	4002.2	3965.7	3607.9	3081.4	2687.1	2444.4	2372.6	2357.8	2365.8
3792.5	22.5°	4015.9	4139.0	3978.3	3418.7	2758.9	2381.7	2248.4	2250.7	2283.7	2307.7
3920.2	25°	4170.9	4254.1	3945.2	3145.2	2412.5	2157.2	2124.2	2160.6	2225.6	2272.3
4063.7	27.5°	4320.1	4356.6	3873.4	2806.8	2115.1	1996.5	2002.2	2077.5	2175.5	2240.4
4238.1	30°	4488.8	4447.8	3735.5	2426.2	1908.8	1858.7	1906.5	1994.3	2092.3	2150.4
4458.0	32.5°	4679.1	4526.4	3516.7	2074.0	1762.9	1748.1	1826.7	1883.7	1927.0	1944.1
4749.8	35°	4916.2	4637.0	3236.4	1826.7	1631.9	1667.2	1742.4	1713.9	1696.8	1687.7
5141.8	37.5°	5223.8	4786.2	2908.2	1666.1	1525.9	1609.1	1639.9	1551.0	1483.7	1450.7
5617.0	40°	5594.2	5005.0	2592.5	1541.9	1458.7	1558.9	1505.4	1398.3	1312.8	1266.1
6151.5	42.5°	6005.6	5234.1	2327.0	1448.4	1421.1	1517.9	1406.2	1278.6	1140.7	1125.9
6788.5	45°	6437.5	5470.0	2145.8	1376.6	1402.8	1482.6	1349.3	1143.0	1045.0	1105.4
7427.8	47.5°	6869.4	5686.5	2036.4	1323.1	1393.7	1442.7	1299.1	1067.8	998.3	1086.0
8112.7	50°	7350.3	5880.2	1987.4	1284.3	1383.5	1426.8	1223.9	1048.4	949.3	1007.4
8821.5	52.5°	7827.8	6030.7	1951.0	1245.6	1368.6	1414.2	1187.4	1025.6	890.0	893.4
9534.9	55°	8304.1	6128.7	1911.1	1194.3	1335.6	1386.9	1184.0	1000.6	845.6	829.6
10289.3	57.5°	8812.4	6184.5	1862.1	1137.3	1278.6	1317.4	1180.6	981.2	831.9	805.7
11060.8	60°	9329.7	6266.6	1798.3	1067.8	1202.3	1234.2	1172.6	974.3	823.9	779.5
11787.8	62.5°	9793.6	6295.0	1721.9	1001.7	1104.3	1152.1	1155.5	968.6	802.3	725.9
12391.8	65°	10097.8	6172.0	1588.6	926.5	998.3	1067.8	1122.5	949.3	763.5	687.2
12690.4	67.5°	10085.3	5821.0	1380.0	829.6	895.7	974.3	1074.6	916.2	716.8	639.3
12464.7	70°	9615.8	5128.1	1115.6	716.8	782.9	874.1	1013.1	867.2	661.0	586.9
11083.6	72.5°	8247.1	4013.6	810.2	584.6	651.8	770.4	933.3	808.0	604.0	540.2
8191.3	75°	5891.6	2540.1	549.3	449.0	507.1	653.0	834.2	738.4	551.6	542.4
4102.5	77.5°	3009.6	1213.7	363.5	328.2	353.3	515.1	700.8	659.8	559.5	447.9
1166.9	80°	978.9	447.9	229.1	223.4	234.8	343.0	542.4	541.3	423.9	304.3
282.6	82.5°	312.2	192.6	149.3	143.6	137.9	215.4	378.3	428.5	286.0	192.6
101.4	85°	124.2	115.1	87.7	80.9	58.1	101.4	198.3	284.9	213.1	139.0
26.2	87.5°	45.6	45.6	23.9	17.1	12.5	34.2	53.6	85.5	121.9	71.8
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>
3104.2
3344.7
3459.8
3437.0
3263.8
2982.3
2698.5
2486.6
2362.4
2313.3
2284.9
2256.4
2164.1
1953.2
1696.8
1458.7
1269.5
1140.7
1137.3
1127.0
1050.7
917.4
841.0
809.1
782.9
725.9
687.2
642.7
593.7
536.7
511.7
398.9
268.9
191.4
142.4
70.7
0.0

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