

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: P950842

Luminaire Tested: **GALN-SB5A-935-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-935-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15668 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

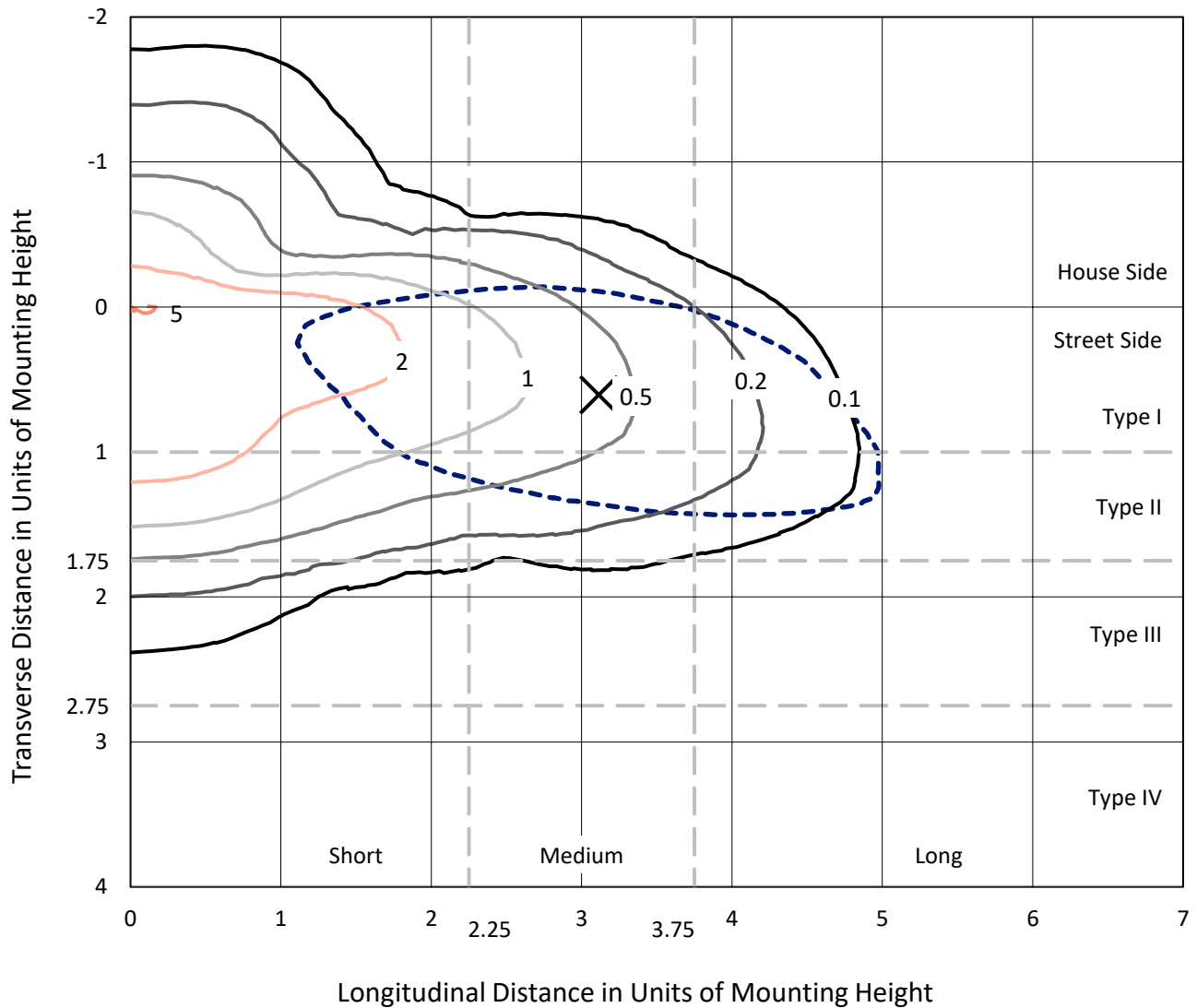
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

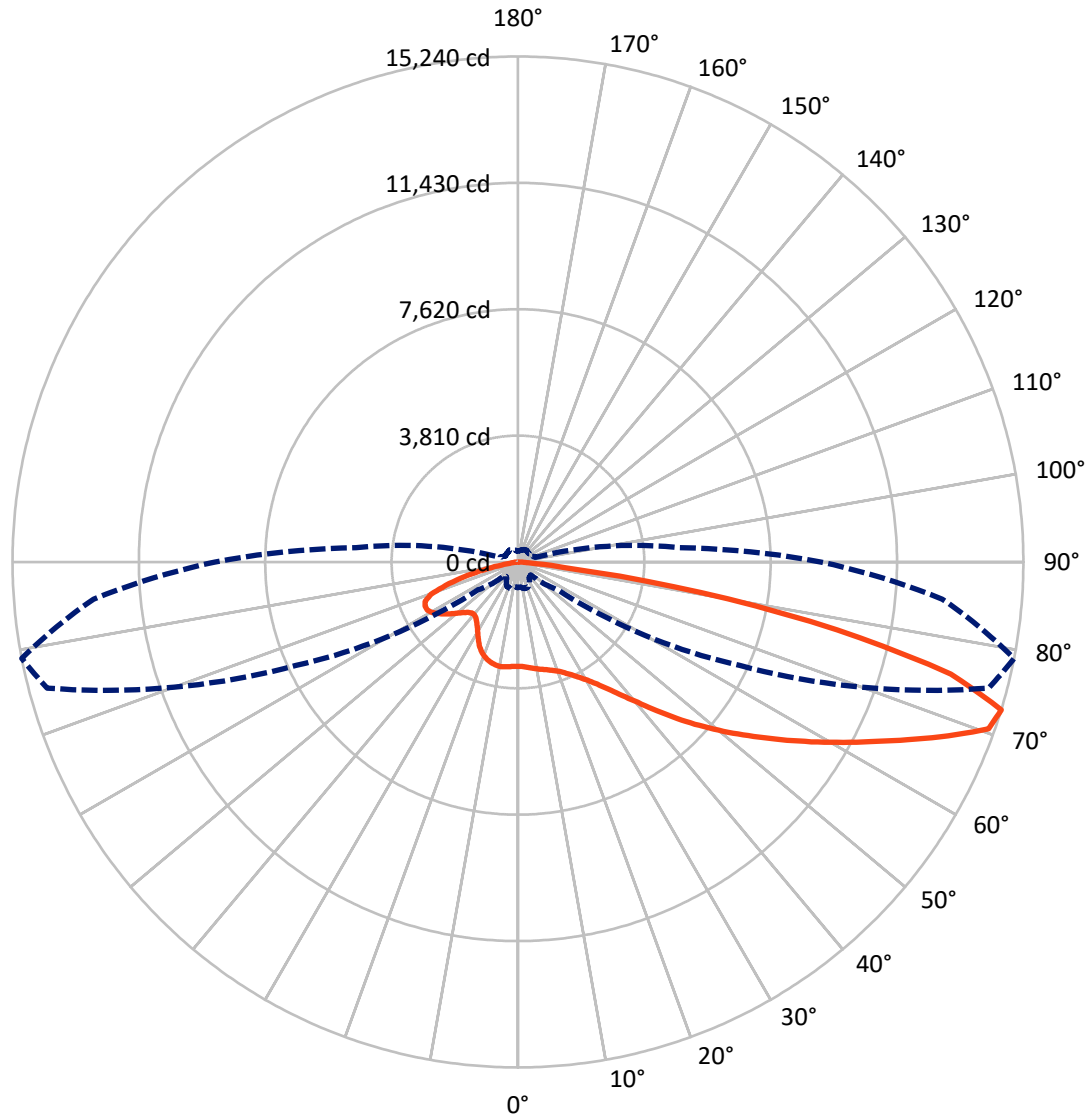
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3447.8	0.0	3447.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12220.2	0.0	12220.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	15668.0	0.0	15668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	1.8
10°-20°	746.4	4.8
20°-30°	1204.4	7.7
30°-40°	1807.7	11.5
40°-50°	2564.3	16.4
50°-60°	3238.3	20.7
60°-70°	3289.0	21.0
70°-80°	2241.6	14.3
80°-90°	290.8	1.9
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°	15668.0	100.0
0°-180°	15668.0	100.0

Coefficient of Utilization



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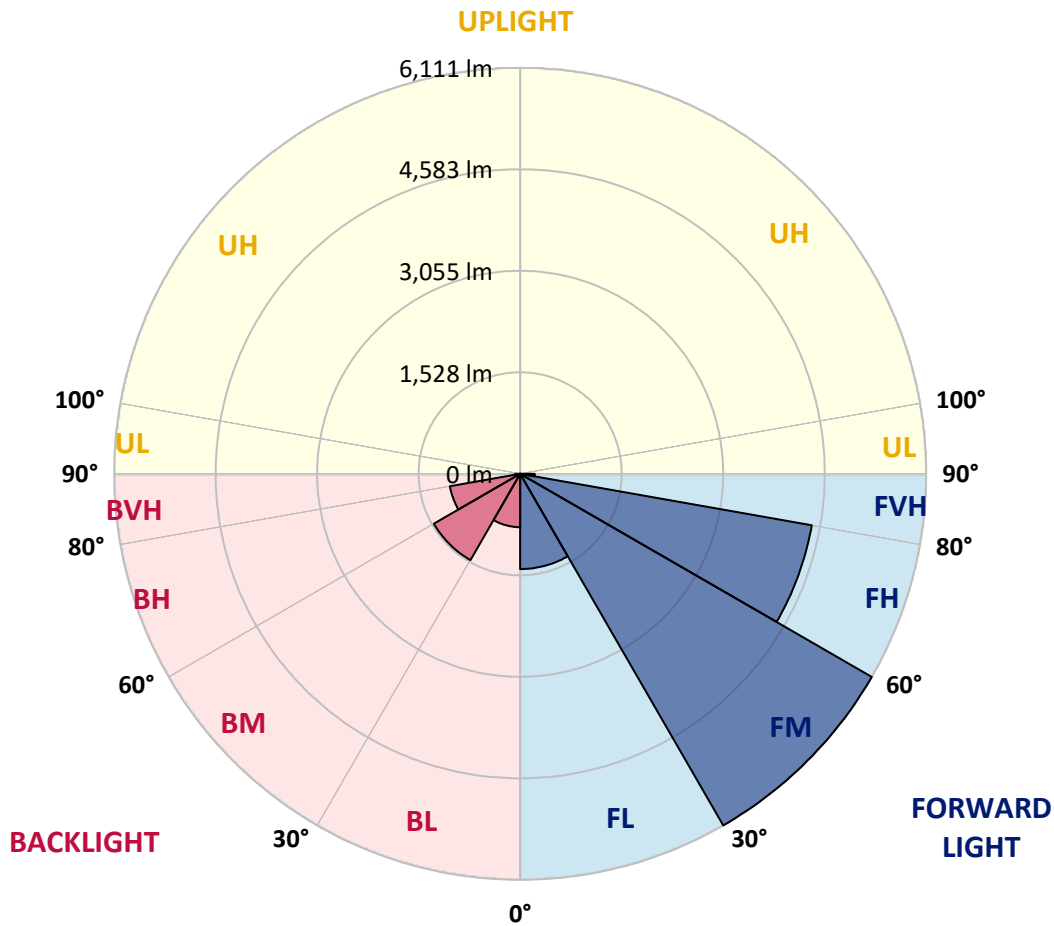
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1433.2	9.1			
FM (30°-60°)	6110.8	39.0			
FH (60°-80°)	4457.0	28.4			G2/5000
FVH (80°-90°)	219.1	1.4			G2/225
BL (0°-30°)	803.1	5.1	B2/1000		
BM (30°-60°)	1499.4	9.6	B2/2500		
BH (60°-80°)	1073.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	71.7	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2
2.5°	3146.9	3131.9	3141.1	3137.7	3141.9	3146.9	3148.5	3151.0	3159.3	3158.5
5°	3140.2	3125.3	3137.7	3133.6	3144.4	3156.0	3165.9	3175.0	3188.3	3194.1
7.5°	3126.1	3116.2	3128.6	3141.1	3160.9	3178.4	3192.4	3213.2	3232.2	3235.5
10°	3044.1	3036.6	3065.6	3098.0	3152.7	3199.9	3230.6	3254.6	3275.3	3278.6
12.5°	2958.7	2949.6	2981.9	3025.9	3114.5	3199.9	3264.5	3296.0	3314.3	3325.0
15°	2944.6	2937.2	2955.4	2993.5	3067.3	3177.5	3287.8	3345.8	3361.5	3373.9
17.5°	3012.6	2998.5	3006.0	3019.2	3062.3	3156.8	3306.0	3402.1	3426.2	3439.4
20°	3170.1	3150.2	3138.6	3112.1	3104.6	3160.1	3304.3	3470.1	3501.6	3518.2
22.5°	3379.7	3366.5	3341.6	3274.5	3201.6	3200.7	3335.8	3557.1	3615.9	3631.7
25°	3633.4	3613.5	3582.0	3490.8	3350.7	3281.1	3388.9	3668.2	3766.8	3770.9
27.5°	3925.1	3895.2	3852.1	3732.0	3543.0	3407.1	3470.1	3795.8	3940.0	3938.3
30°	4232.6	4202.7	4157.1	4011.3	3773.4	3577.0	3582.8	3933.4	4145.5	4136.4
32.5°	4457.2	4434.8	4425.7	4312.9	4038.6	3777.6	3712.1	4085.9	4399.1	4390.9
35°	4629.5	4600.5	4611.3	4554.1	4327.9	4002.2	3870.4	4267.4	4707.4	4706.6
37.5°	4800.3	4774.6	4783.7	4745.6	4595.6	4287.3	4063.5	4489.5	5089.5	5107.7
40°	4956.1	4928.7	4965.2	4929.6	4803.6	4590.6	4283.1	4740.6	5532.1	5566.9
42.5°	5049.7	5028.2	5088.7	5089.5	4984.3	4846.7	4524.3	5017.4	6044.3	6122.2
45°	5082.0	5074.6	5165.8	5184.8	5144.2	4995.0	4741.4	5319.1	6596.2	6735.5
47.5°	5047.2	5033.2	5159.1	5229.6	5261.9	5064.6	4921.3	5645.6	7159.8	7363.7
50°	4871.5	4844.2	5031.5	5179.8	5295.0	5110.2	5102.8	6022.7	7800.4	8023.4
52.5°	4555.8	4535.1	4748.1	5005.8	5222.1	5132.6	5306.6	6434.6	8408.8	8697.2
55°	4152.2	4124.8	4359.4	4695.8	5040.6	5125.1	5510.5	6895.4	9126.5	9419.0
57.5°	3512.3	3457.7	3754.4	4152.2	4744.7	5116.0	5722.7	7353.7	9855.8	10206.4
60°	2579.1	2497.9	2861.8	3333.3	4166.3	5027.4	5985.4	7867.6	10731.0	11046.7
62.5°	1501.7	1454.5	1692.4	2132.4	3140.2	4505.2	6132.9	8465.1	11591.3	11922.8
65°	1166.1	1152.8	1173.5	1207.5	1747.9	3373.1	5677.9	9047.7	12685.2	12917.3
67.5°	1066.6	1056.7	1065.8	1002.0	886.8	1878.8	4492.0	9195.3	13857.1	13998.0
70°	948.1	936.5	966.4	911.7	697.8	854.5	2902.4	8659.9	14789.5	15053.9
72.5°	772.4	759.2	828.8	803.9	587.6	548.6	1457.8	7387.7	14691.7	15240.3
75°	593.4	585.9	668.8	689.5	479.0	431.8	699.5	5491.5	12928.9	13481.7
77.5°	460.8	455.0	497.3	572.7	386.2	334.8	430.1	3483.3	9743.1	9840.0
80°	345.6	329.0	368.0	443.4	300.8	244.5	291.7	2031.3	6158.6	5582.6
82.5°	216.3	208.0	240.3	295.9	212.2	168.2	189.8	1122.2	2468.1	1453.7
85°	123.5	120.2	130.9	169.1	115.2	97.0	108.6	495.6	450.9	310.0
87.5°	49.7	48.1	59.7	75.4	42.3	35.6	38.1	119.3	99.5	92.0
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°
3145.2	0°	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2	3145.2
3157.6	2.5°	3154.3	3154.3	3142.7	3124.5	3103.8	3090.5	3069.0	3063.2	3040.8	3034.1
3185.8	5°	3192.4	3185.8	3150.2	3098.8	3028.3	2963.7	2892.4	2847.7	2784.7	2762.3
3241.3	7.5°	3240.5	3222.3	3160.9	3048.2	2900.7	2755.7	2604.8	2490.5	2381.1	2342.1
3286.9	10°	3284.4	3258.7	3154.3	2957.1	2701.8	2450.7	2210.3	2042.1	1914.5	1862.3
3337.5	12.5°	3328.4	3281.1	3110.4	2805.4	2419.2	2078.6	1822.5	1691.5	1612.8	1549.8
3378.9	15°	3369.8	3303.5	3042.4	2602.4	2109.2	1763.6	1574.7	1470.2	1407.3	1365.8
3439.4	17.5°	3417.9	3322.6	2940.5	2344.6	1814.2	1545.7	1391.5	1328.5	1316.1	1311.1
3522.3	20°	3485.0	3340.0	2806.2	2056.2	1597.0	1371.6	1292.1	1286.3	1285.4	1282.9
3621.7	22.5°	3557.1	3360.7	2628.9	1794.3	1412.2	1263.1	1249.0	1237.4	1229.9	1229.1
3741.9	25°	3642.5	3367.3	2406.8	1579.6	1254.8	1211.7	1195.1	1177.7	1172.7	1172.7
3878.7	27.5°	3725.3	3344.9	2148.2	1393.2	1166.1	1164.4	1142.9	1137.1	1136.3	1138.7
4034.5	30°	3808.2	3302.7	1891.3	1220.8	1114.7	1114.7	1107.2	1111.4	1114.7	1123.0
4248.3	32.5°	3920.1	3257.9	1676.6	1093.2	1069.9	1061.7	1069.1	1077.4	1080.7	1091.5
4529.3	35°	4084.2	3226.4	1505.9	1023.5	1023.5	1012.8	1016.9	1015.2	1007.8	1002.8
4869.1	37.5°	4301.3	3224.8	1365.0	991.2	984.6	982.9	983.8	973.0	944.0	909.2
5280.1	40°	4562.4	3269.5	1256.4	968.8	963.9	973.8	968.8	939.8	860.3	799.8
5785.7	42.5°	4913.0	3397.1	1186.8	941.5	956.4	968.8	948.9	848.7	794.8	754.2
6361.7	45°	5325.7	3604.3	1151.2	912.5	942.3	957.2	861.1	817.2	774.1	725.2
6989.9	47.5°	5793.1	3865.4	1142.9	885.1	910.8	919.9	823.8	803.9	755.0	702.0
7621.4	50°	6302.0	4174.5	1165.3	852.8	865.2	833.7	811.4	793.1	742.6	690.4
8268.7	52.5°	6828.3	4515.2	1210.0	808.9	819.7	784.9	806.4	790.7	735.1	664.7
8937.5	55°	7345.4	4858.3	1253.1	757.5	773.2	740.9	792.3	780.7	701.1	621.6
9651.1	57.5°	7870.9	5199.7	1295.4	711.9	728.5	698.7	769.9	754.2	663.0	581.8
10430.1	60°	8417.0	5531.2	1315.3	668.0	679.6	659.7	736.0	708.6	619.9	541.2
11195.9	62.5°	8928.4	5807.2	1282.9	624.1	631.5	623.2	691.2	654.7	576.8	495.6
11994.0	65°	9441.4	5971.3	1183.5	581.0	582.6	578.5	628.2	596.7	526.3	455.8
12692.7	67.5°	9906.4	6063.3	1025.2	534.6	530.4	528.8	569.4	533.7	477.4	416.0
13223.9	70°	10005.0	5829.6	783.2	479.9	479.9	475.7	504.7	468.3	423.5	373.8
12843.5	72.5°	9138.1	4903.9	556.1	417.7	424.3	416.0	440.1	409.4	368.8	335.7
11069.1	75°	7368.6	3596.1	404.4	353.9	365.5	351.4	373.8	352.2	317.4	316.6
7628.0	77.5°	5063.0	2223.6	293.4	291.7	300.0	281.8	307.5	295.9	264.4	250.3
3320.1	80°	2160.6	886.8	213.8	225.4	225.4	208.9	238.7	242.0	214.7	208.0
640.6	82.5°	430.1	251.9	150.0	155.0	145.9	140.9	169.1	187.3	258.6	287.6
193.1	85°	129.3	92.8	90.3	84.5	74.6	75.4	99.5	188.1	232.1	132.6
63.8	87.5°	35.6	23.2	24.0	19.1	15.7	20.7	34.0	142.5	77.9	33.2
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>
3145.2
3044.9
2778.9
2347.1
1873.9
1570.5
1373.3
1314.4
1291.2
1238.2
1177.7
1145.4
1128.8
1100.6
1014.4
910.0
798.1
752.5
721.9
697.8
684.6
659.7
617.4
580.1
538.7
494.8
450.9
411.1
372.1
325.7
285.1
234.5
208.0
288.4
114.4
28.2
0.0

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