

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: P943614

Luminaire Tested: **GALN-SB8A-935-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-935-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18426 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

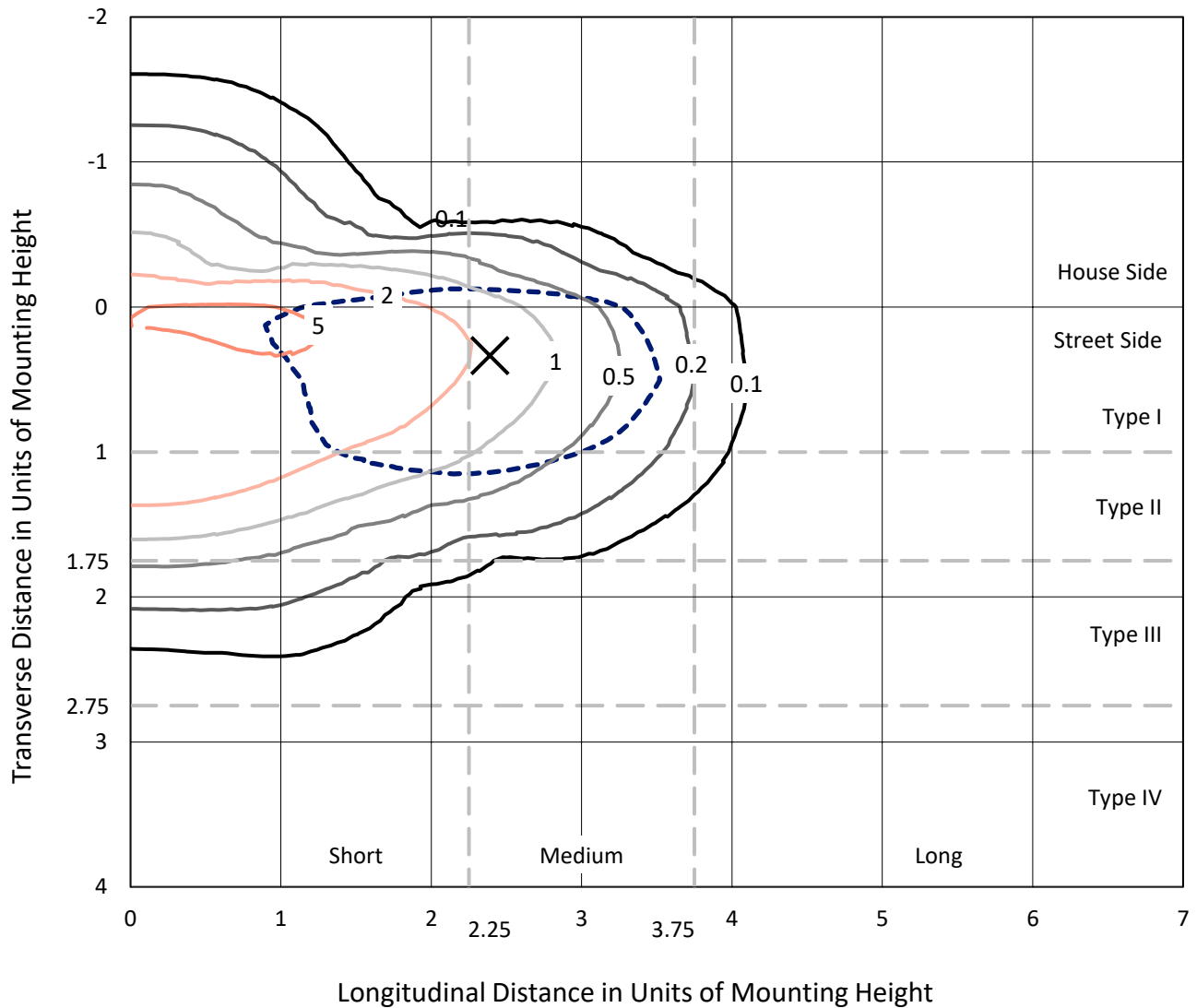
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

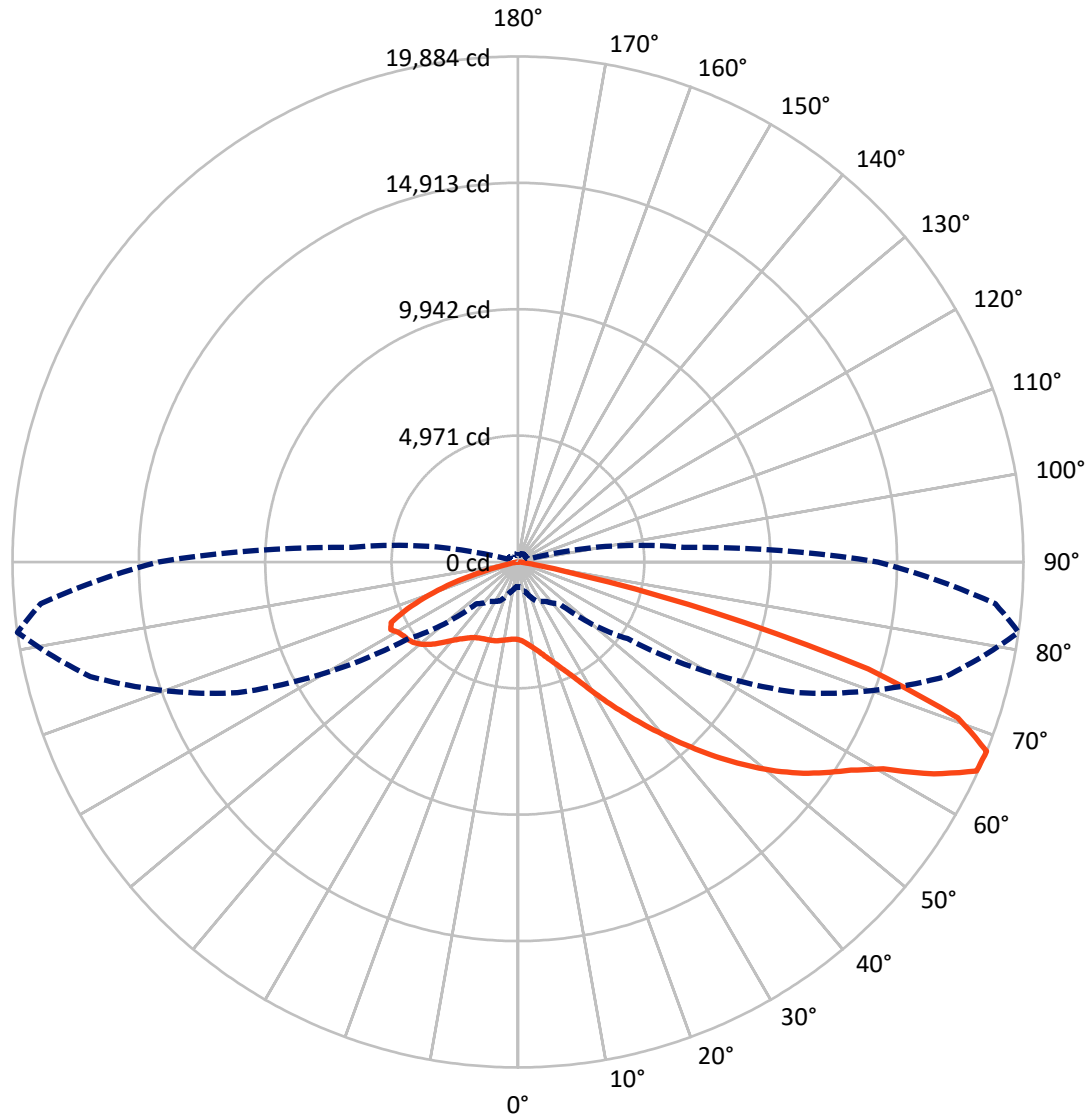
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3337.7	0.0	3337.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15088.3	0.0	15088.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	18426.0	0.0	18426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.0	1.5
10°-20°	706.7	3.8
20°-30°	1131.9	6.1
30°-40°	2001.6	10.9
40°-50°	3507.0	19.0
50°-60°	4677.4	25.4
60°-70°	4354.4	23.6
70°-80°	1671.2	9.1
80°-90°	103.8	0.6
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°	18426.0	100.0
0°-180°	18426.0	100.0

Coefficient of Utilization



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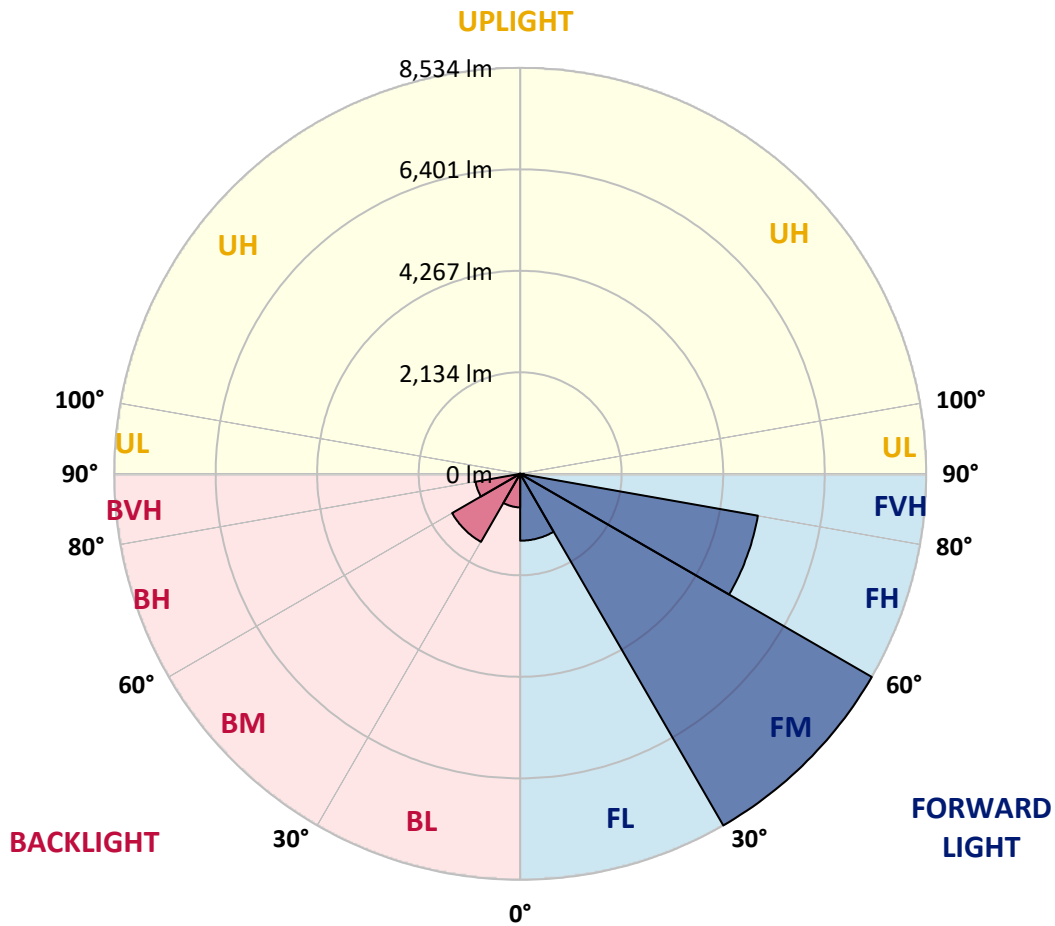
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1405.7	7.6			
FM (30°-60°)	8534.2	46.3			
FH (60°-80°)	5073.0	27.5			G3/7500
FVH (80°-90°)	75.5	0.4			G1/100
BL (0°-30°)	704.9	3.8	B2/1000		
BM (30°-60°)	1651.8	9.0	B2/2500		
BH (60°-80°)	952.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	28.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6
2.5°	3226.4	3244.9	3234.3	3229.0	3219.7	3206.5	3195.8	3162.7	3128.2	3105.6
5°	3291.4	3309.9	3308.6	3313.9	3320.5	3324.5	3321.9	3284.7	3235.6	3197.2
7.5°	3235.6	3256.9	3274.1	3300.6	3347.1	3396.2	3420.0	3412.1	3361.7	3308.6
10°	3077.8	3100.3	3141.4	3203.8	3302.0	3408.1	3497.0	3538.1	3506.3	3447.9
12.5°	2788.6	2811.1	2892.0	3027.4	3191.9	3376.3	3546.1	3656.2	3664.1	3605.8
15°	2463.5	2486.1	2572.3	2742.1	2992.9	3288.7	3572.6	3780.9	3851.2	3800.8
17.5°	2261.9	2281.8	2346.8	2483.4	2744.8	3113.6	3563.3	3913.5	4074.1	4034.3
20°	2200.9	2218.1	2248.6	2344.1	2561.7	2931.8	3502.3	4038.2	4314.2	4291.6
22.5°	2265.9	2281.8	2291.1	2333.5	2470.2	2812.4	3425.3	4165.6	4592.8	4595.4
25°	2415.8	2431.7	2421.1	2447.6	2507.3	2775.3	3396.2	4315.5	4943.0	4972.2
27.5°	2662.5	2663.9	2638.7	2637.3	2646.6	2831.0	3426.7	4476.0	5384.8	5439.2
30°	3157.4	3137.5	3040.6	2935.8	2888.1	2998.2	3511.6	4665.7	5906.1	6003.0
32.5°	3920.2	3891.0	3713.2	3462.5	3210.4	3267.5	3664.1	4882.0	6473.9	6649.0
35°	4748.0	4740.0	4554.3	4181.5	3741.1	3650.9	3912.2	5165.9	7093.5	7372.1
37.5°	5517.4	5513.5	5407.3	4968.2	4432.3	4185.5	4310.2	5537.3	7756.8	8160.1
40°	6220.5	6232.5	6126.4	5733.7	5193.7	4871.4	4851.5	5996.3	8494.4	9018.4
42.5°	6828.1	6841.4	6733.9	6443.4	5945.9	5630.2	5516.1	6558.8	9214.7	9940.4
45°	7240.7	7323.0	7307.1	7074.9	6718.0	6390.4	6314.7	7264.6	10035.9	10918.1
47.5°	7357.5	7433.1	7552.5	7584.3	7366.7	7044.4	7134.6	8115.0	10866.4	11897.2
50°	7069.6	7139.9	7388.0	7718.3	7869.5	7770.0	7931.9	9026.4	11716.8	12873.6
52.5°	6501.8	6573.4	6886.5	7409.2	8026.1	8339.2	8731.8	9924.5	12540.6	13798.2
55°	5680.6	5756.2	6158.2	6749.9	7727.6	8574.0	9399.1	10821.3	13295.4	14630.0
57.5°	4563.6	4619.3	5037.2	5865.0	6976.7	8340.5	9891.3	11800.3	14006.5	15447.2
60°	2974.3	3023.4	3508.9	4432.3	5732.3	7560.4	9989.5	12892.1	14951.1	16509.9
62.5°	1978.0	2011.2	2299.0	2976.9	4036.9	6062.7	9415.1	13763.7	16336.1	18359.2
65°	1357.1	1390.3	1678.2	2150.5	2608.1	4010.4	7763.4	13648.3	17591.1	19827.7
67.5°	968.4	996.3	1240.4	1686.1	1887.8	2329.6	5262.7	12173.1	17410.6	19883.5
70°	693.8	709.7	911.4	1313.4	1500.4	1399.6	2926.5	9310.3	15244.3	18360.5
72.5°	485.5	490.9	632.8	1000.3	1208.6	1021.5	1393.0	6207.3	11529.7	14411.1
75°	329.0	335.6	425.8	733.6	969.8	780.1	737.6	3328.5	6768.4	7977.0
77.5°	201.6	204.3	274.6	501.5	725.7	594.3	474.9	1410.2	2618.8	2571.0
80°	114.1	114.1	175.1	311.8	494.8	383.4	333.0	599.6	829.1	728.3
82.5°	63.7	65.0	127.4	193.7	327.7	226.9	183.1	277.3	358.2	317.1
85°	26.5	29.2	78.3	91.5	156.5	112.8	74.3	116.7	132.7	118.1
87.5°	2.7	4.0	23.9	17.2	18.6	22.6	10.6	22.6	18.6	18.6
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°
3052.6	0°	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6	3052.6
3097.7	2.5°	3072.5	3052.6	3002.2	2943.8	2866.8	2829.7	2779.3	2744.8	2715.6	2718.3
3174.6	5°	3132.2	3081.8	2969.0	2828.4	2653.3	2528.5	2395.9	2304.3	2230.1	2214.1
3280.7	7.5°	3214.4	3134.8	2937.1	2683.8	2387.9	2163.7	1963.4	1834.7	1743.2	1714.0
3409.4	10°	3320.5	3205.1	2896.0	2502.0	2076.2	1790.9	1576.0	1475.2	1412.9	1391.6
3560.7	12.5°	3443.9	3286.1	2841.6	2280.5	1755.1	1480.5	1343.9	1293.5	1273.6	1266.9
3746.4	15°	3599.1	3386.9	2759.4	2017.8	1483.2	1290.8	1232.4	1225.8	1228.5	1225.8
3969.3	17.5°	3783.5	3497.0	2625.4	1747.2	1300.1	1194.0	1172.7	1178.0	1184.7	1183.3
4218.7	20°	3985.2	3605.8	2454.3	1507.0	1175.4	1125.0	1113.0	1118.3	1123.7	1121.0
4506.5	22.5°	4214.7	3722.5	2264.5	1320.0	1091.8	1061.3	1048.0	1049.4	1049.4	1044.1
4871.4	25°	4489.3	3851.2	2065.6	1187.3	1028.1	1004.3	988.3	983.0	975.1	959.2
5314.5	27.5°	4817.0	3987.8	1874.5	1094.5	977.7	955.2	936.6	923.3	903.4	876.9
5846.4	30°	5185.8	4153.7	1712.7	1036.1	937.9	915.4	894.1	874.2	845.1	811.9
6458.0	32.5°	5619.6	4331.4	1594.6	997.6	902.1	878.2	853.0	829.1	797.3	764.1
7145.2	35°	6137.0	4546.3	1525.6	971.1	874.2	842.4	814.5	788.0	764.1	735.0
7892.1	37.5°	6698.1	4774.5	1504.4	957.8	855.7	806.6	774.7	756.2	753.5	736.3
8700.0	40°	7312.4	5045.2	1520.3	949.9	835.8	772.1	737.6	733.6	740.3	709.7
9563.6	42.5°	7962.4	5366.2	1546.8	940.6	807.9	737.6	704.4	704.4	699.1	656.7
10476.4	45°	8665.5	5736.3	1573.4	918.0	774.7	703.1	677.9	668.6	646.1	604.9
11394.4	47.5°	9373.9	6113.1	1593.3	876.9	735.0	673.9	651.4	630.1	597.0	559.8
12295.2	50°	10046.5	6451.4	1572.1	815.9	689.8	646.1	622.2	593.0	557.2	532.0
13148.2	52.5°	10647.5	6744.6	1481.8	744.2	642.1	616.9	595.7	565.1	536.0	509.4
13917.6	55°	11170.2	6982.0	1322.6	676.6	599.6	591.7	570.4	532.0	492.2	469.6
14680.4	57.5°	11671.6	7162.4	1123.7	620.9	561.2	563.8	532.0	497.5	460.3	436.5
15708.6	60°	12338.9	7403.9	922.0	569.1	520.0	528.0	493.5	468.3	421.9	391.4
17471.7	62.5°	13405.5	7779.3	732.3	505.4	472.3	474.9	460.3	429.8	374.1	338.3
18778.4	65°	14251.9	7641.4	577.1	436.5	417.9	421.9	421.9	388.7	329.0	287.9
18848.7	67.5°	14156.4	6542.9	460.3	368.8	366.1	368.8	378.1	350.2	291.9	258.7
17413.3	70°	13040.7	5204.4	368.8	306.5	318.4	311.8	338.3	319.7	262.7	229.5
13499.7	72.5°	10640.9	3749.0	281.2	253.4	244.1	254.7	305.1	287.9	218.9	181.7
7150.5	75°	6217.9	2000.6	209.6	200.3	176.4	212.3	270.6	245.4	167.2	134.0
2191.6	77.5°	2024.4	697.8	153.9	147.3	131.3	171.1	230.8	207.0	136.6	106.1
642.1	80°	542.6	210.9	104.8	96.8	84.9	127.4	183.1	164.5	98.2	69.0
275.9	82.5°	217.6	88.9	61.0	54.4	46.4	87.6	144.6	132.7	73.0	43.8
86.2	85°	70.3	29.2	22.6	17.2	21.2	54.4	86.2	90.2	51.7	22.6
13.3	87.5°	9.3	4.0	4.0	5.3	4.0	9.3	26.5	25.2	14.6	2.7
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>
3052.6
2691.7
2178.3
1684.8
1375.7
1262.9
1224.5
1180.7
1119.7
1041.4
956.5
874.2
809.2
765.5
732.3
735.0
711.1
656.7
603.6
558.5
528.0
506.8
467.0
433.8
387.4
335.6
283.9
253.4
225.5
177.8
130.0
102.2
67.7
43.8
17.2
0.0
0.0

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