

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: P950645

Luminaire Tested: **GALN-SB5A-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18466 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

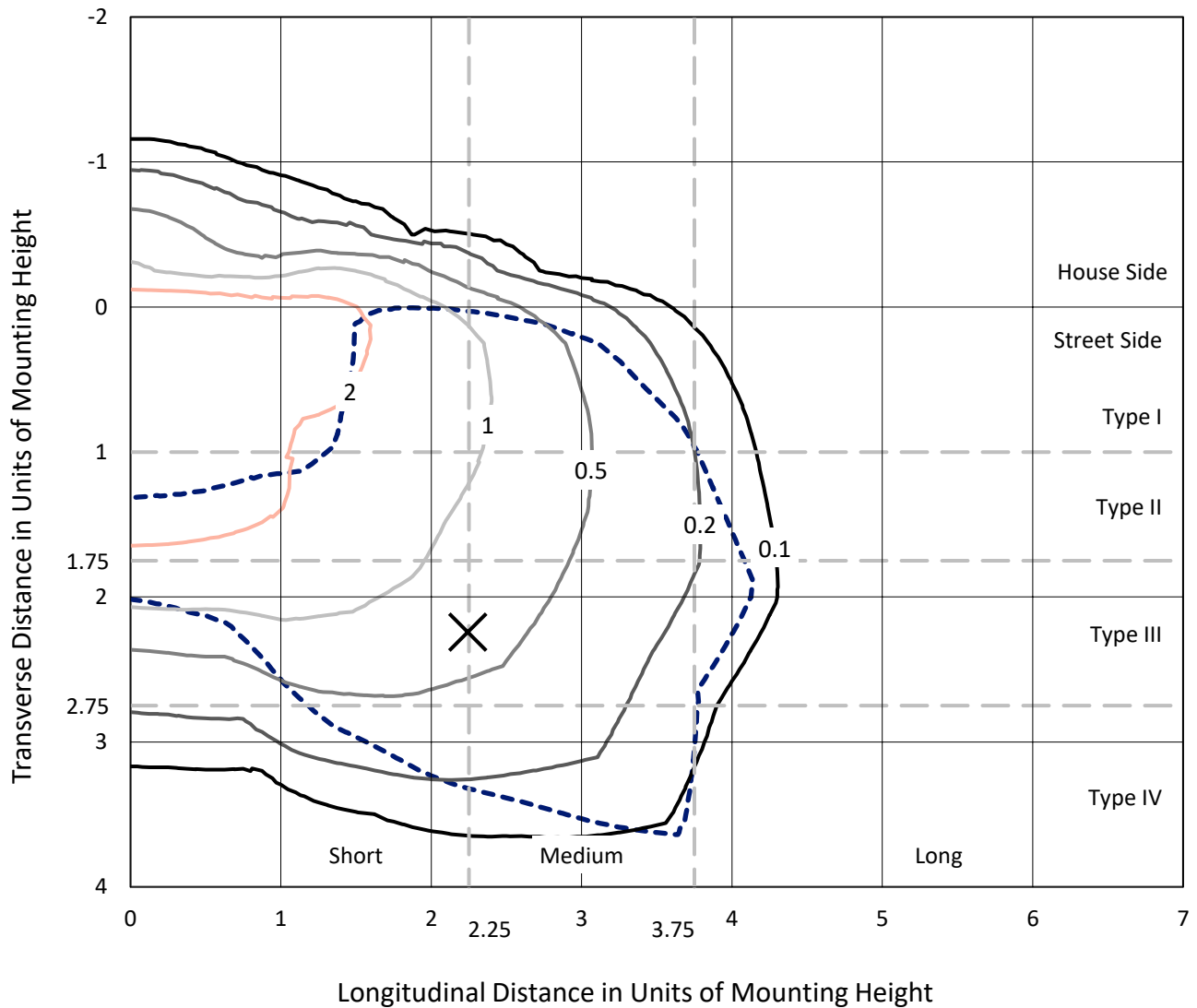
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

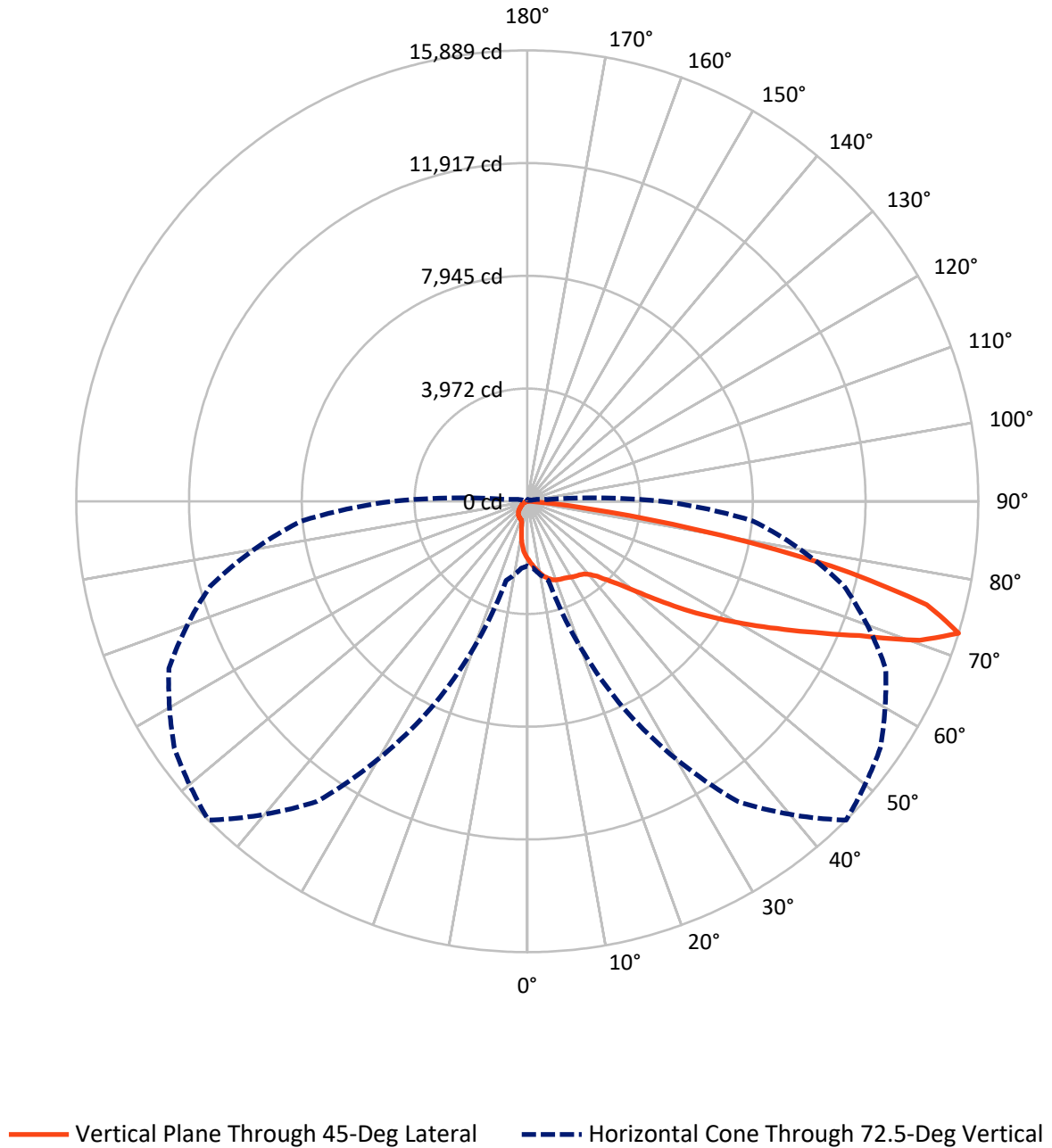
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1940.3	0.0	1940.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16525.7	0.0	16525.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	18466.0	0.0	18466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.0
10°-20°	557.1	3.0
20°-30°	914.8	5.0
30°-40°	1297.4	7.0
40°-50°	2144.4	11.6
50°-60°	3852.2	20.9
60°-70°	5349.0	29.0
70°-80°	3880.0	21.0
80°-90°	280.5	1.5
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°	18466.0	100.0
0°-180°	18466.0	100.0

Coefficient of Utilization



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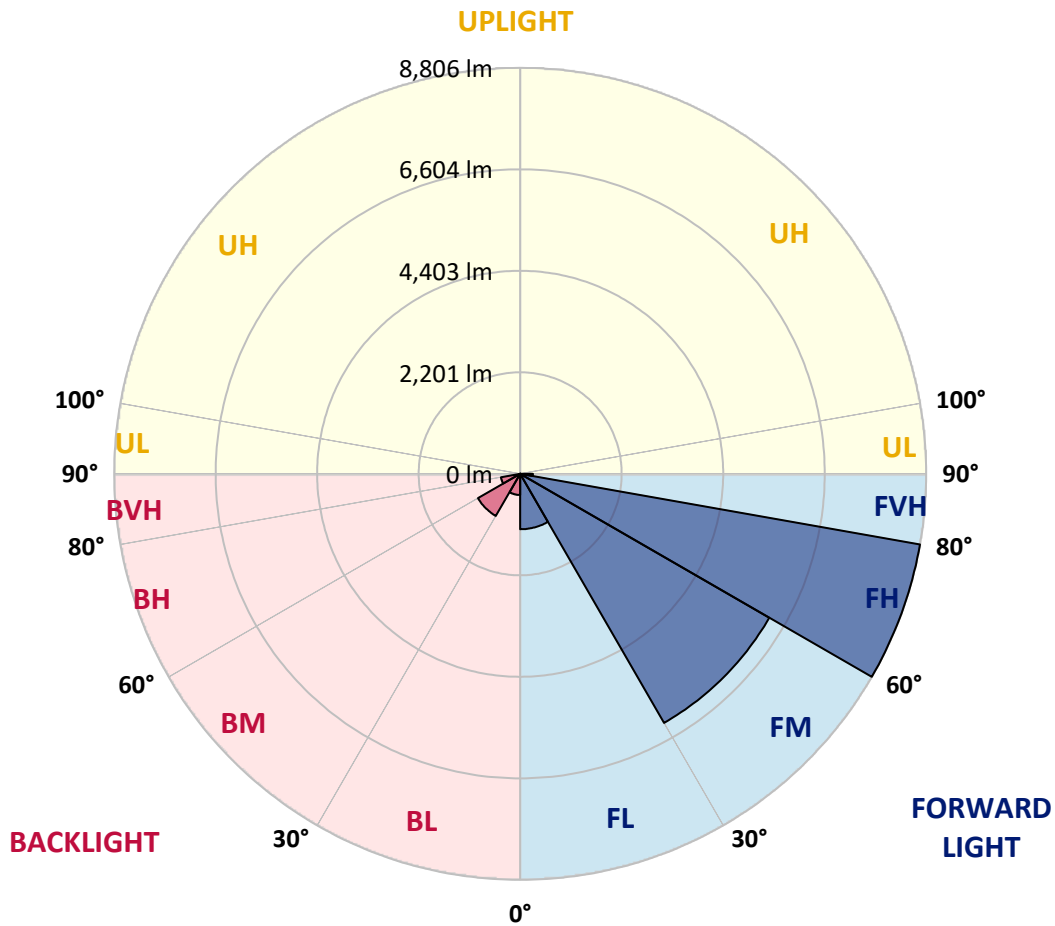
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.9	6.5			
FM (30°-60°)	6238.8	33.8			
FH (60°-80°)	8805.9	47.7			G4/12000
FVH (80°-90°)	278.2	1.5			G3/500
BL (0°-30°)	459.6	2.5	B1/500		
BM (30°-60°)	1055.2	5.7	B2/2500		
BH (60°-80°)	423.1	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0
2.5°	2209.5	2213.3	2210.8	2195.7	2170.5	2156.6	2149.0	2123.8	2107.4	2078.4
5°	2412.5	2427.6	2418.8	2388.5	2340.6	2306.6	2296.5	2244.8	2198.2	2144.0
7.5°	2628.0	2635.6	2619.2	2580.1	2515.8	2457.8	2449.0	2377.2	2302.8	2219.6
10°	2814.5	2823.4	2798.2	2741.4	2668.3	2596.5	2583.9	2504.5	2416.2	2314.1
12.5°	2970.8	2979.7	2946.9	2878.8	2798.2	2723.8	2711.2	2628.0	2530.9	2417.5
15°	3089.3	3105.7	3061.6	2988.5	2901.5	2827.1	2820.8	2738.9	2644.4	2518.3
17.5°	3158.6	3175.0	3133.4	3045.2	2970.8	2907.8	2900.2	2832.2	2744.0	2623.0
20°	3170.0	3185.1	3141.0	3064.1	3002.3	2951.9	2948.1	2899.0	2834.7	2718.7
22.5°	3135.9	3154.9	3114.5	3052.8	3009.9	2983.4	2978.4	2950.7	2914.1	2815.8
25°	3100.7	3115.8	3085.5	3031.3	3008.6	3006.1	3009.9	3004.9	2997.3	2914.1
27.5°	3098.1	3114.5	3080.5	3028.8	3016.2	3042.7	3046.5	3070.4	3076.7	3003.6
30°	3119.6	3130.9	3098.1	3043.9	3037.6	3098.1	3099.4	3142.3	3152.3	3079.2
32.5°	3166.2	3178.8	3146.0	3066.6	3057.8	3142.3	3146.0	3202.8	3219.1	3159.9
35°	3275.9	3291.0	3253.2	3129.6	3098.1	3183.8	3195.2	3262.0	3294.8	3245.6
37.5°	3549.4	3505.3	3453.6	3257.0	3190.1	3249.4	3268.3	3346.4	3404.4	3347.7
40°	4228.7	4090.1	3928.8	3473.7	3351.5	3389.3	3404.4	3482.6	3562.0	3506.5
42.5°	5248.4	5084.6	4824.9	3972.9	3594.7	3613.7	3625.0	3693.1	3805.2	3761.1
45°	6157.2	6098.0	5833.3	4824.9	4049.8	3956.5	3970.4	4005.6	4170.8	4154.4
47.5°	6855.5	6821.4	6617.3	5803.0	4818.6	4376.2	4415.3	4431.7	4669.9	4727.9
50°	7392.4	7379.8	7197.1	6672.7	5823.2	4995.1	5008.9	4973.7	5330.4	5474.0
52.5°	7899.1	7942.0	7807.1	7480.6	6895.8	5805.5	5803.0	5636.6	6118.1	6334.9
55°	8356.6	8371.8	8385.6	8305.0	7974.7	6728.2	6704.2	6432.0	7031.9	7256.3
57.5°	8786.5	8792.8	8916.3	9081.4	9097.8	7718.9	7674.8	7348.3	8030.2	8190.3
60°	9075.1	9104.1	9365.0	9823.8	10024.2	8741.1	8717.1	8384.4	9046.1	9120.5
62.5°	8659.2	8835.6	9493.6	10403.6	10898.9	9874.2	9862.9	9550.3	10114.9	10054.4
65°	7009.2	7308.0	8465.0	10795.6	11757.3	11139.7	11156.1	10823.3	11212.8	11016.2
67.5°	4903.1	5218.2	6587.0	10827.1	12716.5	12625.7	12720.3	12198.4	12378.7	11937.5
70°	3390.6	3553.2	4444.3	10149.0	13463.9	14672.7	14670.1	13887.4	13538.3	12357.3
72.5°	2280.1	2364.6	2886.4	8051.6	12914.4	15889.0	15815.9	15178.1	13929.0	11556.9
75°	961.7	1023.5	1336.1	4524.9	10217.0	14536.5	14338.6	13413.5	12376.2	9100.3
77.5°	305.0	331.5	526.9	1619.7	5627.8	10926.7	10717.4	8376.8	8294.9	4565.3
80°	144.9	168.9	296.2	650.4	2214.6	5942.9	5913.9	3800.2	3568.3	1232.7
82.5°	63.0	74.4	163.9	347.9	990.7	2120.0	2162.9	1293.2	1070.1	467.6
85°	20.2	26.5	75.6	160.1	418.5	526.9	520.6	307.5	431.1	254.6
87.5°	0.0	0.0	25.2	36.6	42.9	30.3	34.0	26.5	119.7	70.6
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°
2023.0	0°	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0	2023.0
2048.2	2.5°	2033.1	2012.9	1977.6	1944.8	1915.9	1886.9	1869.2	1844.0	1841.5	1841.5
2081.0	5°	2046.9	2014.2	1951.1	1884.3	1807.5	1734.4	1661.2	1590.7	1568.0	1551.6
2133.9	7.5°	2087.3	2035.6	1936.0	1808.7	1662.5	1502.4	1390.3	1269.3	1222.6	1197.4
2204.5	10°	2145.3	2074.7	1923.4	1700.3	1463.4	1245.3	1085.2	954.1	903.7	882.3
2281.4	12.5°	2209.5	2122.6	1900.7	1565.5	1245.3	984.4	828.1	767.6	760.0	760.0
2373.4	15°	2286.4	2180.5	1861.7	1406.6	1017.2	778.9	723.5	726.0	733.6	738.6
2462.9	17.5°	2365.8	2242.3	1799.9	1228.9	815.5	700.8	702.1	705.8	712.1	717.2
2559.9	20°	2451.5	2304.1	1718.0	1039.9	699.5	678.1	681.9	685.7	690.7	693.2
2650.7	22.5°	2543.5	2362.0	1620.9	854.6	660.5	659.2	660.5	664.2	670.5	670.5
2756.6	25°	2641.9	2426.3	1510.0	719.7	640.3	640.3	642.8	645.3	650.4	650.4
2858.7	27.5°	2742.7	2485.6	1392.8	649.1	622.7	621.4	621.4	625.2	627.7	629.0
2959.5	30°	2853.6	2554.9	1275.6	634.0	608.8	602.5	598.7	601.2	603.7	605.0
3065.4	32.5°	2967.1	2621.7	1170.9	640.3	594.9	583.6	571.0	568.5	568.5	573.5
3175.0	35°	3093.1	2694.8	1090.3	661.7	587.4	555.8	535.7	524.3	525.6	533.2
3306.1	37.5°	3244.3	2783.0	1031.0	680.6	582.3	524.3	491.6	477.7	468.9	477.7
3486.3	40°	3442.2	2912.9	988.2	695.8	576.0	487.8	443.7	421.0	404.6	409.6
3766.2	42.5°	3733.4	3117.0	971.8	697.0	562.2	444.9	394.5	364.3	340.3	341.6
4187.1	45°	4141.8	3439.7	1056.2	680.6	531.9	398.3	342.8	302.5	287.4	283.6
4816.1	47.5°	4701.4	3909.9	1251.6	646.6	487.8	352.9	292.4	258.4	247.0	240.7
5641.7	50°	5451.4	4513.6	1468.4	608.8	443.7	310.1	250.8	229.4	221.8	215.5
6621.0	52.5°	6321.1	5126.2	1646.1	571.0	399.6	272.3	224.4	211.8	205.5	200.4
7566.4	55°	7118.9	5548.4	1636.0	530.6	356.7	242.0	205.5	197.9	190.3	185.3
8380.6	57.5°	7615.5	5607.7	1348.7	486.5	307.5	218.1	187.8	182.8	173.9	167.6
9085.2	60°	7843.7	5269.9	945.3	428.5	258.4	195.4	168.9	166.4	155.0	146.2
9751.9	62.5°	7885.2	4642.2	630.2	356.7	215.5	173.9	150.0	146.2	131.1	116.0
10293.9	65°	7716.4	3744.7	436.1	278.6	184.0	151.3	128.6	121.0	104.6	89.5
10422.5	67.5°	7181.9	2629.3	303.8	200.4	156.3	119.7	102.1	99.6	87.0	74.4
9767.1	70°	6202.6	1498.7	202.9	150.0	123.5	81.9	80.7	83.2	70.6	60.5
7979.8	72.5°	4755.6	685.7	126.0	109.7	84.4	55.5	64.3	65.5	54.2	45.4
4978.7	75°	2799.4	293.7	79.4	70.6	42.9	36.6	46.6	47.9	36.6	29.0
1820.1	77.5°	952.9	110.9	50.4	41.6	21.4	20.2	30.3	30.3	20.2	11.3
365.5	80°	216.8	41.6	25.2	16.4	10.1	8.8	10.1	8.8	5.0	1.3
112.2	82.5°	61.8	16.4	10.1	6.3	3.8	3.8	1.3	0.0	0.0	0.0
39.1	85°	17.6	7.6	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
13.9	87.5°	7.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
2023.0
1847.8
1559.2
1201.2
882.3
760.0
738.6
717.2
694.5
673.1
651.6
630.2
607.5
577.3
536.9
475.2
407.1
336.5
278.6
237.0
214.3
199.1
182.8
166.4
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