

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: P955181

Luminaire Tested: **GALN-SB8A-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955181
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-SB8A-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 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: 19437 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

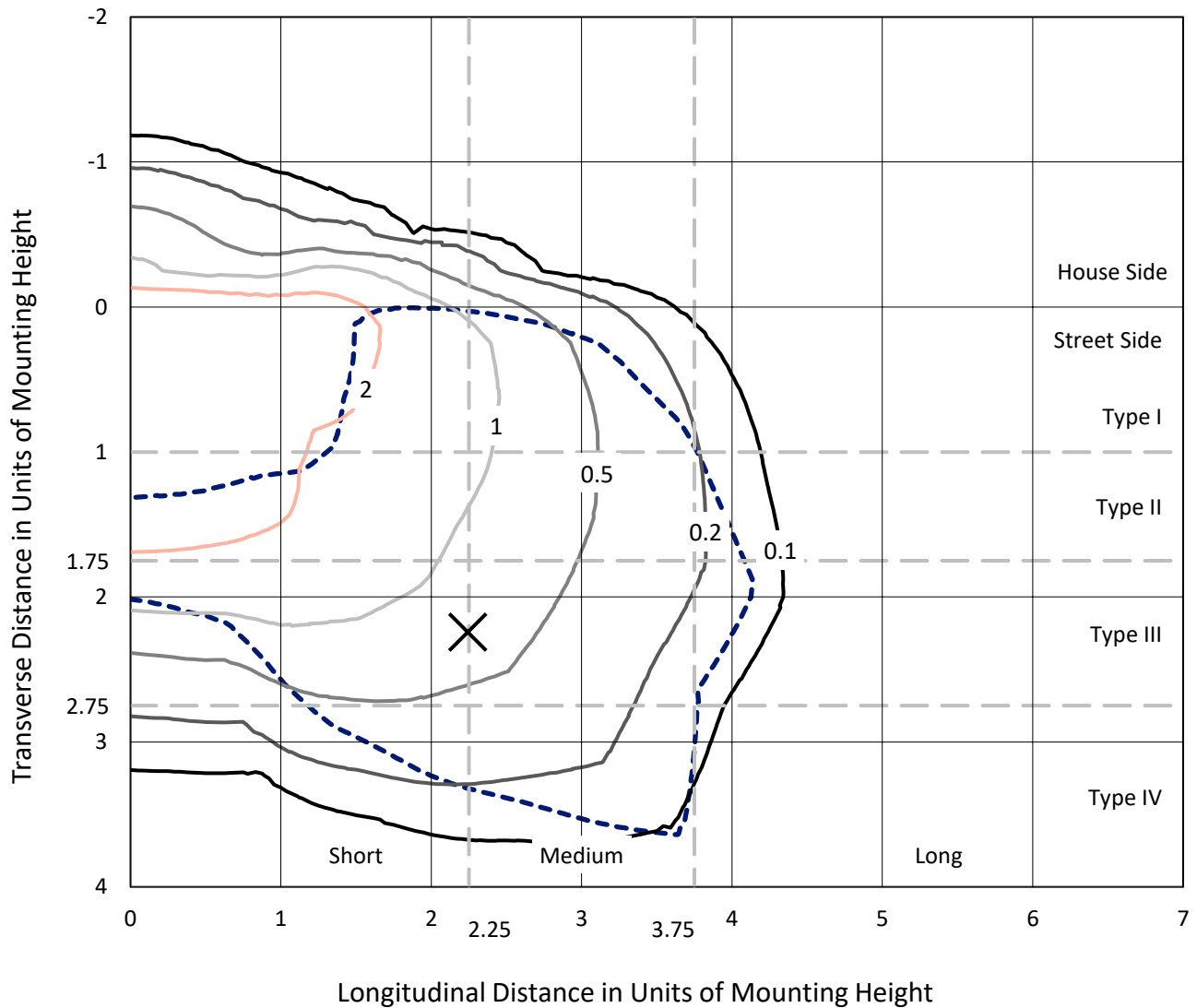
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

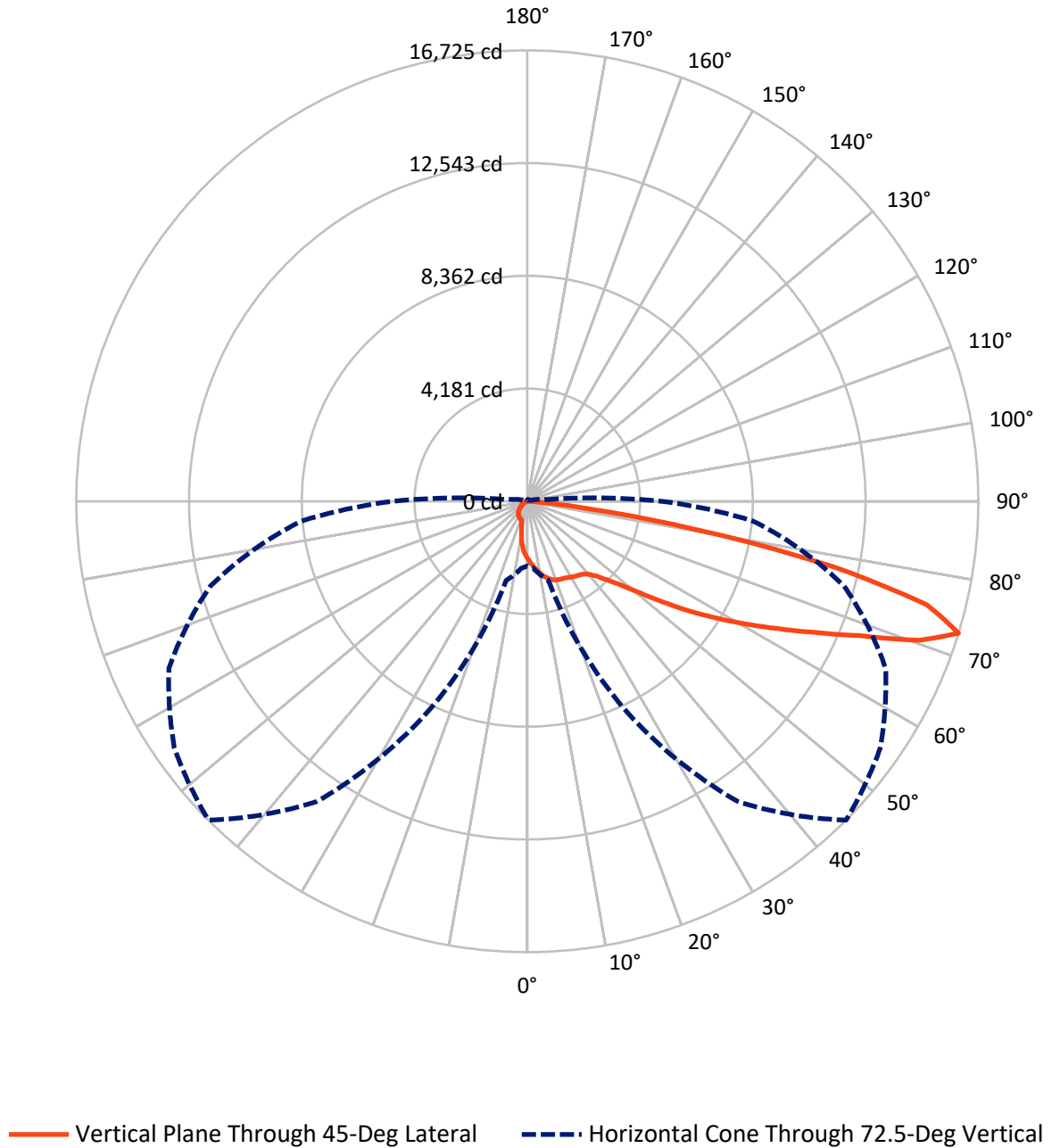
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2042.3	0.0	2042.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17394.7	0.0	17394.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	19437.0	0.0	19437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.0
10°-20°	586.4	3.0
20°-30°	962.9	5.0
30°-40°	1365.6	7.0
40°-50°	2257.2	11.6
50°-60°	4054.8	20.9
60°-70°	5630.3	29.0
70°-80°	4084.0	21.0
80°-90°	295.3	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°	19437.0	100.0
0°-180°	19437.0	100.0

Coefficient of Utilization



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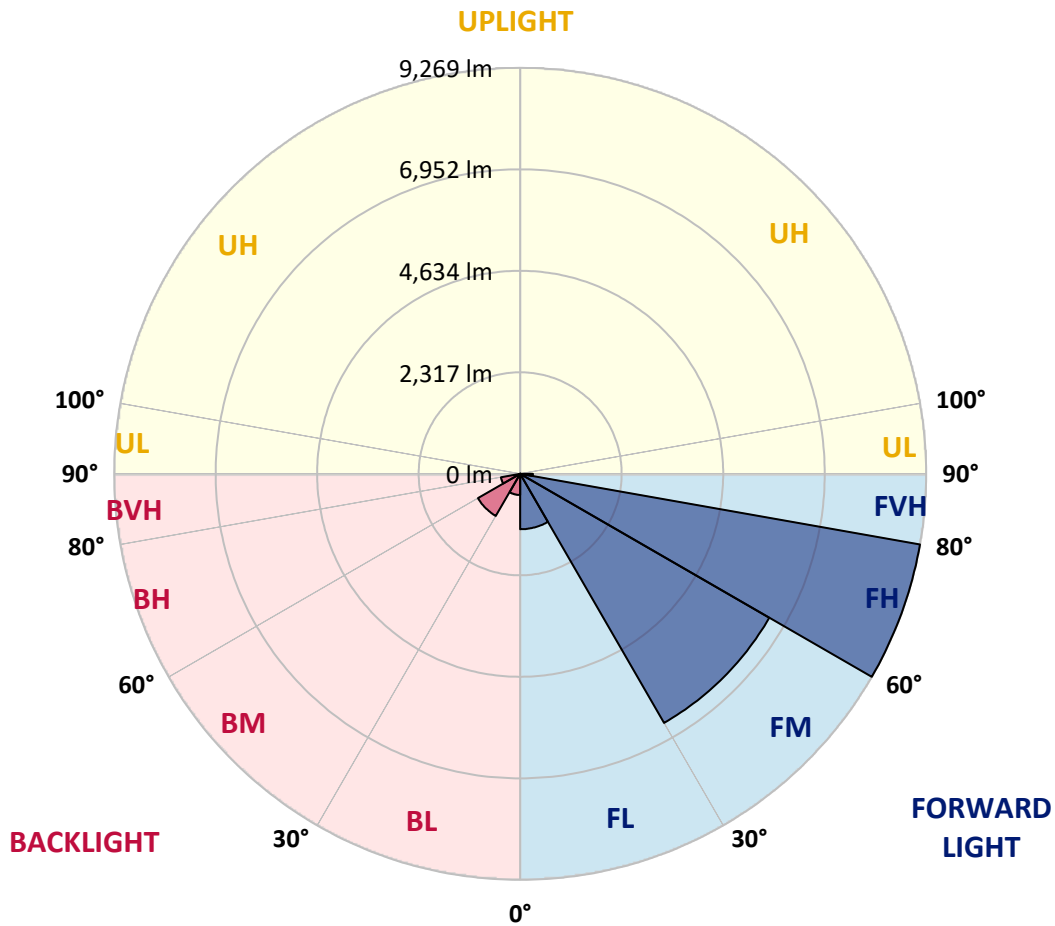
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.1	6.5			
FM (30°-60°)	6566.9	33.8			
FH (60°-80°)	9269.0	47.7			G4/12000
FVH (80°-90°)	292.8	1.5			G3/500
BL (0°-30°)	483.7	2.5	B1/500		
BM (30°-60°)	1110.7	5.7	B2/2500		
BH (60°-80°)	445.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	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°	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4
2.5°	2325.7	2329.7	2327.0	2311.1	2284.6	2270.0	2262.0	2235.5	2218.3	2187.7
5°	2539.3	2555.2	2546.0	2514.1	2463.7	2427.9	2417.3	2362.9	2313.8	2256.7
7.5°	2766.2	2774.1	2756.9	2715.8	2648.1	2587.1	2577.8	2502.2	2423.9	2336.3
10°	2962.5	2971.8	2945.3	2885.6	2808.6	2733.0	2719.7	2636.2	2543.3	2435.8
12.5°	3127.0	3136.3	3101.8	3030.2	2945.3	2867.0	2853.7	2766.2	2664.0	2544.6
15°	3251.8	3269.0	3222.6	3145.6	3054.1	2975.8	2969.2	2882.9	2783.4	2650.8
17.5°	3324.7	3342.0	3298.2	3205.3	3127.0	3060.7	3052.8	2981.1	2888.2	2760.9
20°	3336.7	3352.6	3306.2	3225.2	3160.2	3107.1	3103.2	3051.4	2983.8	2861.7
22.5°	3300.8	3320.7	3278.3	3213.3	3168.2	3140.3	3135.0	3105.8	3067.3	2963.9
25°	3263.7	3279.6	3247.8	3190.7	3166.8	3164.2	3168.2	3162.9	3154.9	3067.3
27.5°	3261.0	3278.3	3242.5	3188.1	3174.8	3202.7	3206.7	3231.9	3238.5	3161.5
30°	3283.6	3295.5	3261.0	3204.0	3197.4	3261.0	3262.4	3307.5	3318.1	3241.1
32.5°	3332.7	3346.0	3311.5	3227.9	3218.6	3307.5	3311.5	3371.2	3388.4	3326.1
35°	3448.1	3464.0	3424.2	3294.2	3261.0	3351.3	3363.2	3433.5	3468.0	3416.3
37.5°	3736.0	3689.6	3635.2	3428.2	3357.9	3420.3	3440.2	3522.4	3583.4	3523.7
40°	4451.1	4305.2	4135.3	3656.4	3527.7	3567.5	3583.4	3665.7	3749.3	3690.9
42.5°	5524.4	5351.9	5078.6	4181.8	3783.8	3803.7	3815.6	3887.3	4005.3	3958.9
45°	6481.0	6418.6	6140.0	5078.6	4262.7	4164.5	4179.1	4216.3	4390.1	4372.8
47.5°	7216.0	7180.1	6965.2	6108.2	5072.0	4606.3	4647.5	4664.7	4915.4	4976.5
50°	7781.1	7767.9	7575.5	7023.6	6129.4	5257.7	5272.3	5235.2	5610.6	5761.9
52.5°	8314.5	8359.6	8217.6	7874.0	7258.4	6110.8	6108.2	5933.0	6439.8	6668.0
55°	8796.1	8812.0	8826.6	8741.7	8394.1	7082.0	7056.8	6770.2	7401.7	7637.9
57.5°	9248.5	9255.1	9385.1	9558.9	9576.2	8124.8	8078.3	7734.7	8452.5	8620.9
60°	9552.3	9582.8	9857.4	10340.4	10551.3	9200.7	9175.5	8825.3	9521.8	9600.1
62.5°	9114.5	9300.2	9992.8	10950.6	11472.0	10393.4	10381.5	10052.5	10646.8	10583.1
65°	7377.8	7692.2	8910.2	11363.2	12375.5	11725.4	11742.7	11392.4	11802.4	11595.4
67.5°	5160.9	5492.6	6933.4	11396.4	13385.1	13289.6	13389.1	12839.9	13029.6	12565.2
70°	3568.8	3740.0	4678.0	10682.6	14171.9	15444.2	15441.5	14617.7	14250.2	13007.0
72.5°	2400.0	2488.9	3038.2	8475.0	13593.4	16724.5	16647.5	15976.2	14661.4	12164.6
75°	1012.3	1077.3	1406.3	4762.9	10754.3	15300.9	15092.6	14118.8	13026.9	9578.8
77.5°	321.1	348.9	554.6	1704.8	5923.7	11501.2	11281.0	8817.3	8731.1	4805.3
80°	152.6	177.8	311.8	684.6	2331.0	6255.4	6224.9	4000.0	3755.9	1297.5
82.5°	66.3	78.3	172.5	366.2	1042.8	2231.5	2276.6	1361.2	1126.4	492.2
85°	21.2	27.9	79.6	168.5	440.5	554.6	547.9	323.7	453.7	268.0
87.5°	0.0	0.0	26.5	38.5	45.1	31.8	35.8	27.9	126.0	74.3
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°
2129.4	0°	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4
2155.9	2.5°	2140.0	2118.8	2081.6	2047.1	2016.6	1986.1	1967.5	1941.0	1938.3	1938.3
2190.4	5°	2154.6	2120.1	2053.7	1983.4	1902.5	1825.5	1748.6	1674.3	1650.4	1633.2
2246.1	7.5°	2197.0	2142.6	2037.8	1903.8	1749.9	1581.4	1463.4	1336.0	1286.9	1260.4
2320.4	10°	2258.1	2183.8	2024.6	1789.7	1540.3	1310.8	1142.3	1004.3	951.2	928.7
2401.3	12.5°	2325.7	2234.2	2000.7	1647.8	1310.8	1036.2	871.6	808.0	800.0	800.0
2498.2	15°	2406.6	2295.2	1959.5	1480.6	1070.7	819.9	761.5	764.2	772.1	777.5
2592.4	17.5°	2490.2	2360.2	1894.5	1293.5	858.4	737.6	739.0	743.0	749.6	754.9
2694.5	20°	2580.4	2425.2	1808.3	1094.5	736.3	713.8	717.7	721.7	727.0	729.7
2790.1	22.5°	2677.3	2486.2	1706.1	899.5	695.2	693.9	695.2	699.2	705.8	705.8
2901.5	25°	2780.8	2553.9	1589.4	757.5	674.0	674.0	676.6	679.3	684.6	684.6
3009.0	27.5°	2886.9	2616.3	1466.0	683.3	655.4	654.1	654.1	658.0	660.7	662.0
3115.1	30°	3003.7	2689.2	1342.6	667.3	640.8	634.2	630.2	632.8	635.5	636.8
3226.6	32.5°	3123.1	2759.6	1232.5	674.0	626.2	614.3	601.0	598.3	598.3	603.7
3342.0	35°	3255.7	2836.5	1147.6	696.5	618.2	585.1	563.9	551.9	553.2	561.2
3480.0	37.5°	3414.9	2929.4	1085.2	716.4	612.9	551.9	517.4	502.8	493.5	502.8
3669.7	40°	3623.2	3066.0	1040.1	732.3	606.3	513.4	467.0	443.1	425.9	431.2
3964.2	42.5°	3929.7	3280.9	1022.9	733.7	591.7	468.3	415.3	383.4	358.2	359.5
4407.3	45°	4359.6	3620.6	1111.8	716.4	559.9	419.2	360.9	318.4	302.5	298.5
5069.3	47.5°	4948.6	4115.4	1317.4	680.6	513.4	371.5	307.8	272.0	260.0	253.4
5938.3	50°	5738.0	4750.9	1545.6	640.8	467.0	326.4	264.0	241.5	233.5	226.9
6969.2	52.5°	6653.4	5395.7	1732.7	601.0	420.6	286.6	236.2	222.9	216.3	210.9
7964.2	55°	7493.2	5840.2	1722.1	558.5	375.5	254.7	216.3	208.3	200.3	195.0
8821.3	57.5°	8016.0	5902.5	1419.6	512.1	323.7	229.5	197.7	192.4	183.1	176.5
9562.9	60°	8256.1	5547.0	995.0	451.1	272.0	205.6	177.8	175.1	163.2	153.9
10264.7	62.5°	8299.9	4886.3	663.4	375.5	226.9	183.1	157.9	153.9	138.0	122.1
10835.2	65°	8122.1	3941.6	459.0	293.2	193.7	159.2	135.3	127.4	110.1	94.2
10970.5	67.5°	7559.6	2767.5	319.7	210.9	164.5	126.0	107.5	104.8	91.5	78.3
10280.7	70°	6528.7	1577.5	213.6	157.9	130.0	86.2	84.9	87.6	74.3	63.7
8399.4	72.5°	5005.7	721.7	132.7	115.4	88.9	58.4	67.7	69.0	57.0	47.8
5240.5	75°	2946.6	309.1	83.6	74.3	45.1	38.5	49.1	50.4	38.5	30.5
1915.8	77.5°	1003.0	116.8	53.1	43.8	22.6	21.2	31.8	31.8	21.2	11.9
384.7	80°	228.2	43.8	26.5	17.2	10.6	9.3	10.6	9.3	5.3	1.3
118.1	82.5°	65.0	17.2	10.6	6.6	4.0	4.0	1.3	0.0	0.0	0.0
41.1	85°	18.6	8.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
14.6	87.5°	8.0	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°
2129.4
1945.0
1641.1
1264.4
928.7
800.0
777.5
754.9
731.0
708.5
685.9
663.4
639.5
607.6
565.2
500.2
428.5
354.2
293.2
249.4
225.5
209.6
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