

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: P943624

Luminaire Tested: **GALN-SB8A-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943624
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-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 19194 lumens
Efficiency: N/A
Efficacy: 84.5 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

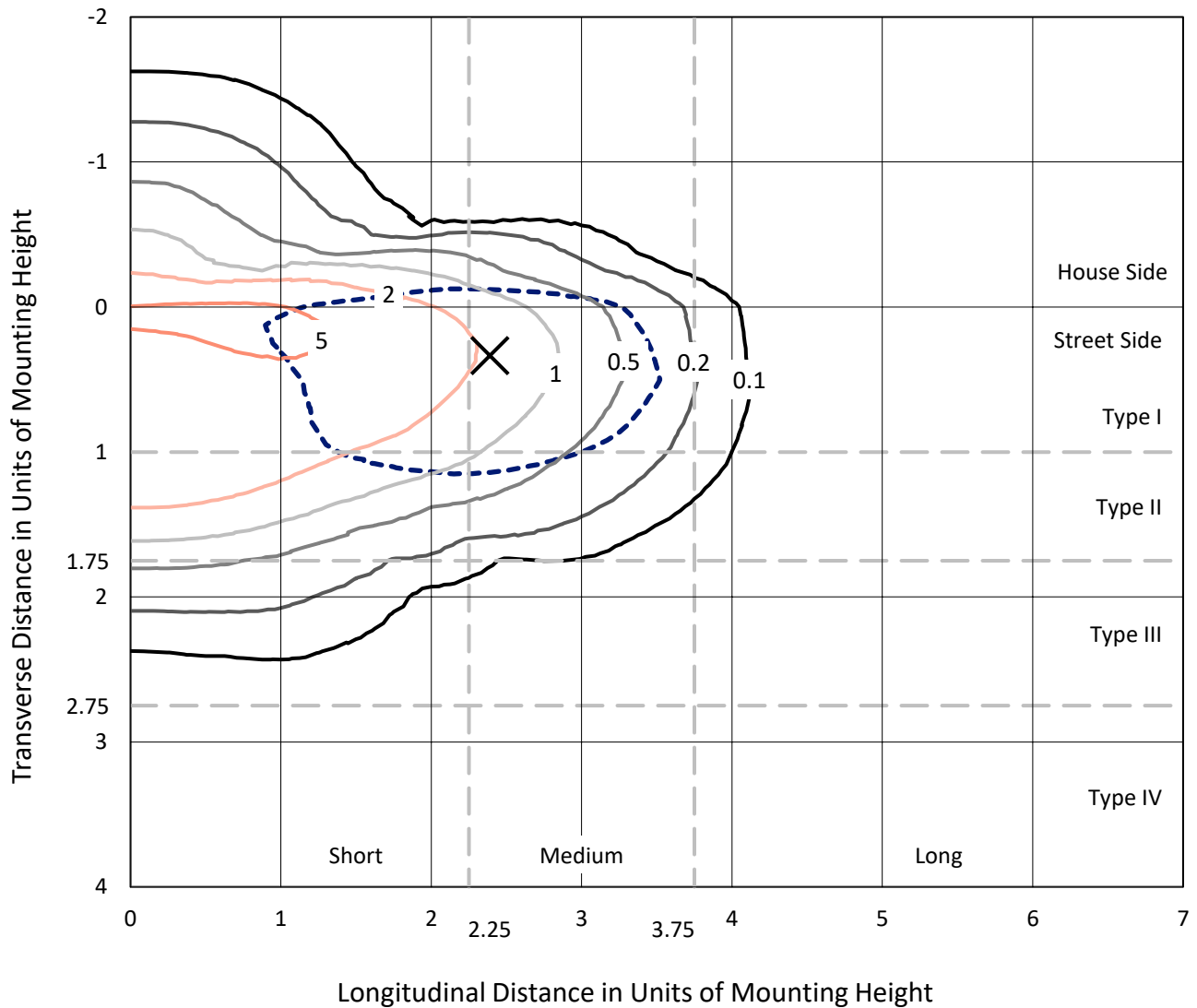
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

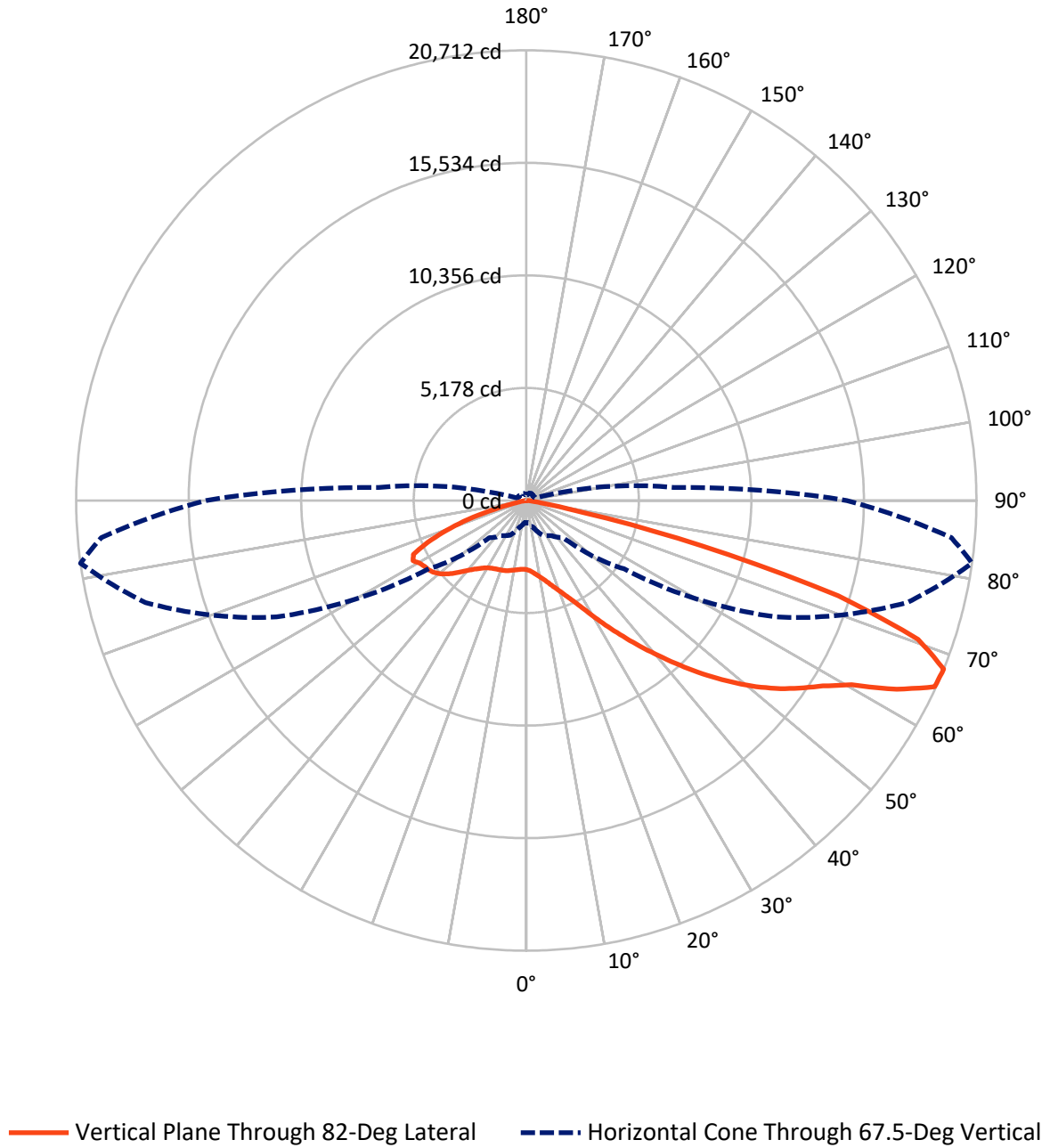
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3476.8	0.0	3476.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15717.2	0.0	15717.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	19194.0	0.0	19194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	1.5
10°-20°	736.2	3.8
20°-30°	1179.1	6.1
30°-40°	2085.0	10.9
40°-50°	3653.2	19.0
50°-60°	4872.3	25.4
60°-70°	4535.9	23.6
70°-80°	1740.9	9.1
80°-90°	108.1	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°	19194.0	100.0
0°-180°	19194.0	100.0

Coefficient of Utilization



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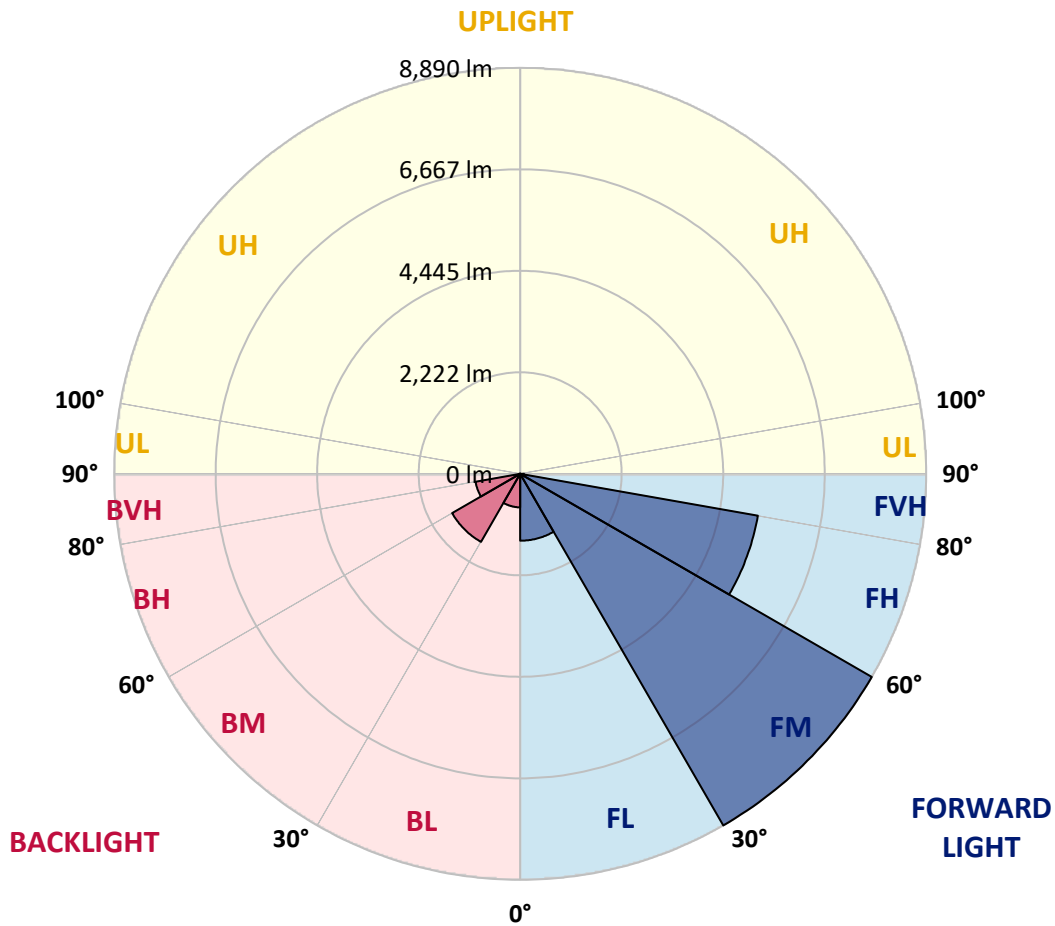
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.3	7.6			
FM (30°-60°)	8889.9	46.3			
FH (60°-80°)	5284.4	27.5			G3/7500
FVH (80°-90°)	78.6	0.4			G1/100
BL (0°-30°)	734.3	3.8	B2/1000		
BM (30°-60°)	1720.7	9.0	B2/2500		
BH (60°-80°)	992.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	29.5	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°	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8
2.5°	3360.8	3380.2	3369.1	3363.6	3353.9	3340.1	3329.0	3294.5	3258.6	3235.1
5°	3428.5	3447.9	3446.5	3452.0	3458.9	3463.1	3460.3	3421.6	3370.5	3330.4
7.5°	3370.5	3392.6	3410.6	3438.2	3486.6	3537.7	3562.6	3554.3	3501.8	3446.5
10°	3206.1	3229.5	3272.4	3337.3	3439.6	3550.2	3642.7	3685.6	3652.4	3591.6
12.5°	2904.8	2928.3	3012.6	3153.5	3324.9	3517.0	3693.9	3808.6	3816.9	3756.1
15°	2566.2	2589.7	2679.5	2856.4	3117.6	3425.8	3721.5	3938.5	4011.7	3959.2
17.5°	2356.2	2376.9	2444.6	2587.0	2859.2	3243.4	3711.8	4076.7	4243.9	4202.4
20°	2292.6	2310.6	2342.4	2441.9	2668.5	3054.0	3648.3	4206.6	4494.0	4470.5
22.5°	2360.3	2376.9	2386.6	2430.8	2573.1	2929.7	3568.1	4339.2	4784.2	4787.0
25°	2516.5	2533.1	2522.0	2549.6	2611.8	2891.0	3537.7	4495.4	5149.0	5179.4
27.5°	2773.5	2774.9	2748.6	2747.3	2756.9	2949.0	3569.5	4662.6	5609.2	5665.9
30°	3289.0	3268.2	3167.4	3058.2	3008.4	3123.1	3657.9	4860.2	6152.3	6253.2
32.5°	4083.6	4053.2	3868.0	3606.8	3344.2	3403.7	3816.9	5085.5	6743.8	6926.2
35°	4945.9	4937.6	4744.1	4355.8	3897.0	3803.0	4075.3	5381.2	7389.1	7679.3
37.5°	5747.4	5743.3	5632.7	5175.3	4617.0	4360.0	4489.9	5768.1	8080.1	8500.2
40°	6479.8	6492.3	6381.7	5972.7	5410.2	5074.4	5053.7	6246.3	8848.4	9394.3
42.5°	7112.7	7126.6	7014.6	6712.0	6193.8	5864.9	5746.0	6832.2	9598.8	10354.7
45°	7542.5	7628.2	7611.6	7369.8	6998.0	6656.7	6577.9	7567.4	10454.2	11373.2
47.5°	7664.1	7742.9	7867.3	7900.4	7673.8	7338.0	7432.0	8453.2	11319.3	12393.1
50°	7364.2	7437.5	7695.9	8040.0	8197.5	8093.9	8262.5	9402.6	12205.1	13410.1
52.5°	6772.8	6847.4	7173.5	7718.0	8360.6	8686.7	9095.8	10338.1	13063.3	14373.3
55°	5917.4	5996.1	6414.9	7031.2	8049.7	8931.3	9790.9	11272.3	13849.6	15239.8
57.5°	4753.8	4811.8	5247.1	6109.5	7267.5	8688.1	10303.6	12292.2	14590.3	16091.1
60°	3098.3	3149.4	3655.2	4617.0	5971.3	7875.6	10405.9	13429.5	15574.2	17198.0
62.5°	2060.4	2095.0	2394.9	3101.0	4205.2	6315.4	9807.5	14337.4	17017.0	19124.4
65°	1413.7	1448.3	1748.1	2240.1	2716.9	4177.5	8087.0	14217.2	18324.2	20654.2
67.5°	1008.8	1037.8	1292.1	1756.4	1966.5	2426.7	5482.1	12680.5	18136.3	20712.2
70°	722.7	739.3	949.4	1368.1	1563.0	1457.9	3048.5	9698.3	15879.6	19125.8
72.5°	505.8	511.3	659.2	1042.0	1258.9	1064.1	1451.0	6466.0	12010.3	15011.8
75°	342.7	349.6	443.6	764.2	1010.2	812.6	768.3	3467.2	7050.6	8309.5
77.5°	210.1	212.8	286.1	522.4	755.9	619.1	494.7	1469.0	2727.9	2678.2
80°	118.8	118.8	182.4	324.8	515.5	399.4	346.9	624.6	863.7	758.7
82.5°	66.3	67.7	132.7	201.8	341.3	236.3	190.7	288.8	373.1	330.3
85°	27.6	30.4	81.5	95.4	163.1	117.5	77.4	121.6	138.2	123.0
87.5°	2.8	4.1	24.9	18.0	19.3	23.5	11.1	23.5	19.3	19.3
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°
3179.8	0°	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8	3179.8
3226.8	2.5°	3200.5	3179.8	3127.3	3066.5	2986.3	2947.6	2895.1	2859.2	2828.8	2831.6
3306.9	5°	3262.7	3210.2	3092.7	2946.3	2763.8	2633.9	2495.7	2400.4	2323.0	2306.4
3417.5	7.5°	3348.4	3265.5	3059.6	2795.6	2487.5	2253.9	2045.2	1911.2	1815.8	1785.4
3551.5	10°	3458.9	3338.7	3016.7	2606.3	2162.7	1865.6	1641.7	1536.7	1471.7	1449.6
3709.1	12.5°	3587.5	3423.0	2960.1	2375.5	1828.3	1542.2	1399.9	1347.4	1326.6	1319.7
3902.5	15°	3749.1	3528.0	2874.4	2101.9	1545.0	1344.6	1283.8	1276.9	1279.7	1276.9
4134.7	17.5°	3941.2	3642.7	2734.8	1820.0	1354.3	1243.7	1221.6	1227.1	1234.1	1232.7
4394.5	20°	4151.3	3756.1	2556.6	1569.9	1224.4	1171.9	1159.4	1165.0	1170.5	1167.7
4694.4	22.5°	4390.4	3877.7	2358.9	1375.0	1137.3	1105.5	1091.7	1093.1	1093.1	1087.6
5074.4	25°	4676.4	4011.7	2151.6	1236.8	1071.0	1046.1	1029.5	1024.0	1015.7	999.1
5536.0	27.5°	5017.7	4154.0	1952.7	1140.1	1018.5	995.0	975.6	961.8	941.1	913.4
6090.1	30°	5401.9	4326.8	1784.1	1079.3	977.0	953.5	931.4	910.7	880.3	845.7
6727.2	32.5°	5853.8	4512.0	1661.1	1039.2	939.7	914.8	888.6	863.7	830.5	796.0
7443.0	35°	6392.8	4735.8	1589.2	1011.6	910.7	877.5	848.5	820.9	796.0	765.6
8221.0	37.5°	6977.3	4973.5	1567.1	997.7	891.3	840.2	807.0	787.7	784.9	767.0
9062.6	40°	7617.1	5255.4	1583.7	989.5	870.6	804.3	768.3	764.2	771.1	739.3
9962.3	42.5°	8294.3	5589.9	1611.3	979.8	841.6	768.3	733.8	733.8	728.3	684.1
10913.0	45°	9026.7	5975.4	1639.0	956.3	807.0	732.4	706.2	696.5	673.0	630.2
11869.3	47.5°	9764.6	6367.9	1659.7	913.4	765.6	702.0	678.5	656.4	621.9	583.2
12807.6	50°	10465.3	6720.3	1637.6	849.9	718.6	673.0	648.1	617.7	580.4	554.1
13696.2	52.5°	11091.3	7025.7	1543.6	775.3	668.8	642.6	620.5	588.7	558.3	530.7
14497.7	55°	11635.8	7273.0	1377.8	704.8	624.6	616.3	594.2	554.1	512.7	489.2
15292.3	57.5°	12158.1	7461.0	1170.5	646.7	584.6	587.3	554.1	518.2	479.5	454.7
16363.3	60°	12853.2	7712.5	960.4	592.8	541.7	550.0	514.1	487.8	439.5	407.7
18199.9	62.5°	13964.3	8103.6	762.8	526.5	492.0	494.7	479.5	447.7	389.7	352.4
19561.1	65°	14846.0	7959.9	601.1	454.7	435.3	439.5	439.5	404.9	342.7	299.9
19634.3	67.5°	14746.5	6815.6	479.5	384.2	381.4	384.2	393.8	364.8	304.0	269.5
18139.1	70°	13584.3	5421.3	384.2	319.2	331.7	324.8	352.4	333.0	273.6	239.1
14062.4	72.5°	11084.4	3905.3	293.0	263.9	254.3	265.3	317.8	299.9	228.0	189.3
7448.5	75°	6477.1	2083.9	218.3	208.7	183.8	221.1	281.9	255.7	174.1	139.6
2282.9	77.5°	2108.8	726.9	160.3	153.4	136.8	178.3	240.5	215.6	142.3	110.6
668.8	80°	565.2	219.7	109.2	100.9	88.4	132.7	190.7	171.4	102.3	71.9
287.4	82.5°	226.6	92.6	63.6	56.7	48.4	91.2	150.6	138.2	76.0	45.6
89.8	85°	73.2	30.4	23.5	18.0	22.1	56.7	89.8	94.0	53.9	23.5
13.8	87.5°	9.7	4.1	4.1	5.5	4.1	9.7	27.6	26.3	15.2	2.8
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>
3179.8
2803.9
2269.1
1755.0
1433.1
1315.6
1275.5
1229.9
1166.3
1084.8
996.4
910.7
843.0
797.4
762.8
765.6
740.7
684.1
628.8
581.8
550.0
527.9
486.4
451.9
403.5
349.6
295.7
263.9
234.9
185.2
135.4
106.4
70.5
45.6
18.0
0.0
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