

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: P940224

Luminaire Tested: **GALN-SB3A-940-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940224  
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-SB3A-940-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

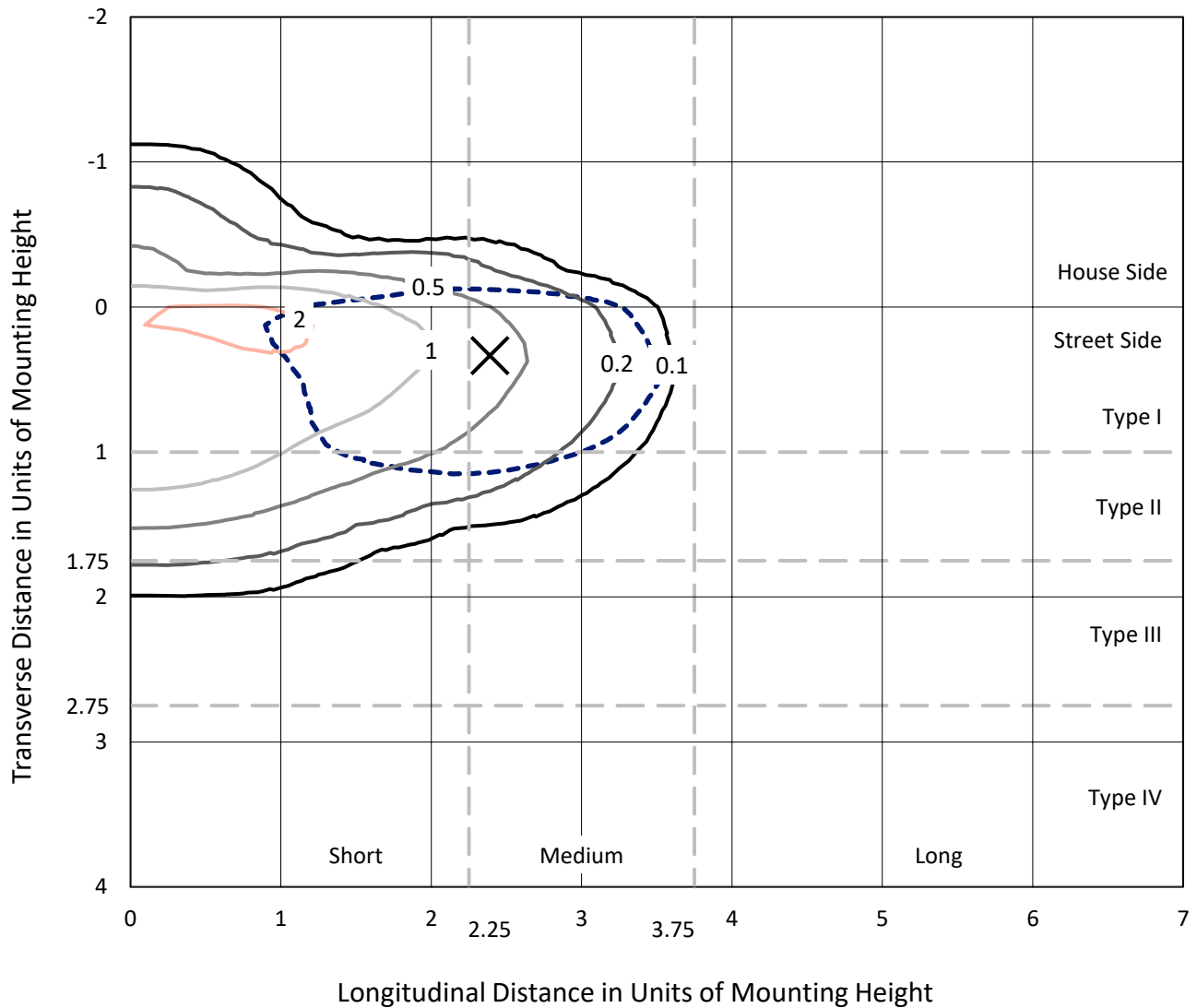
Lumens per Lamp: N/A  
Luminaire Lumens: 7122 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

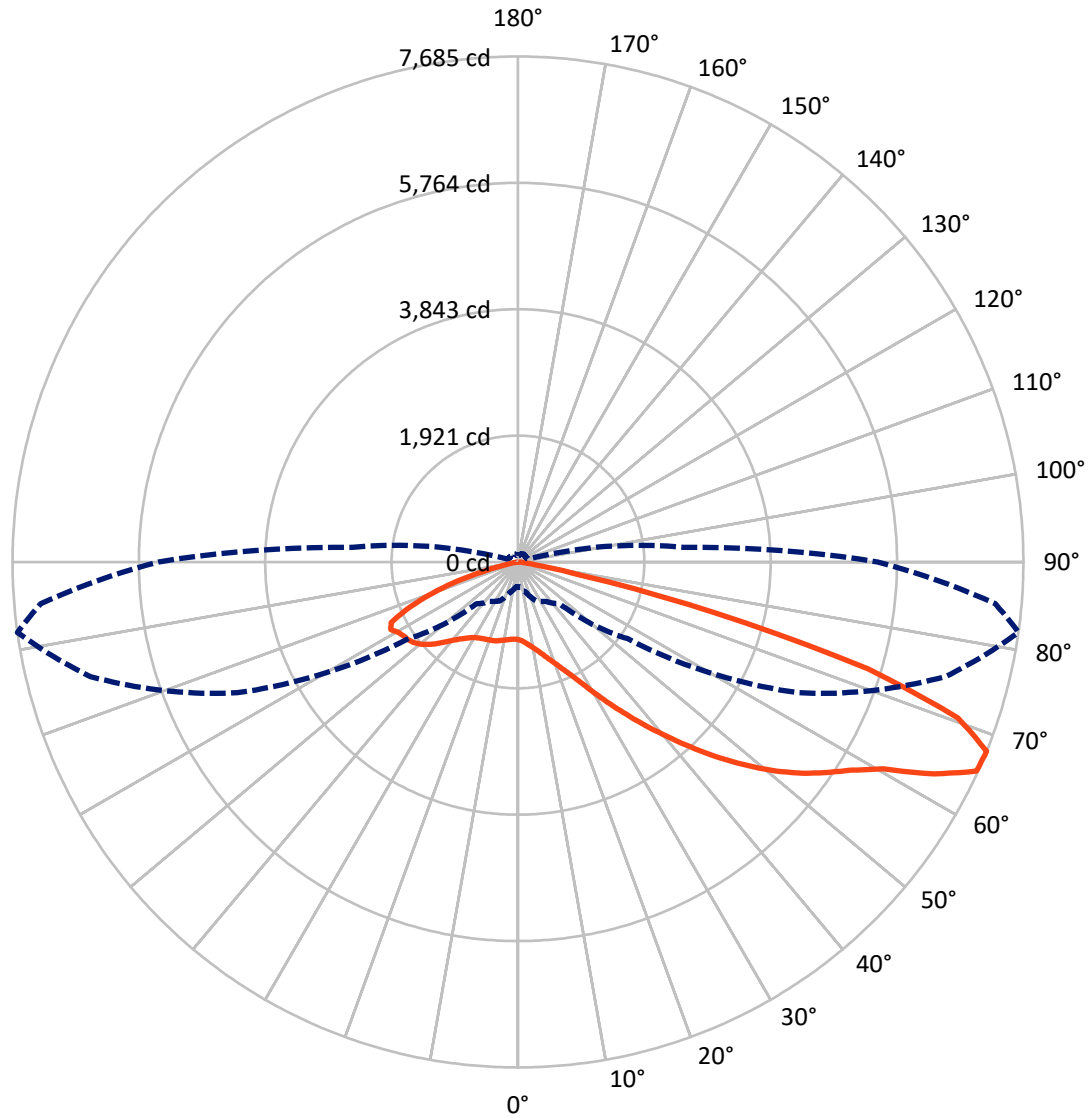
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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
<b>House Side</b>	Lumens	1290.1	0.0	1290.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5831.9	0.0	5831.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	7122.0	0.0	7122.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.1	1.5
10°-20°	273.2	3.8
20°-30°	437.5	6.1
30°-40°	773.7	10.9
40°-50°	1355.5	19.0
50°-60°	1807.9	25.4
60°-70°	1683.1	23.6
70°-80°	646.0	9.1
80°-90°	40.1	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°	7122.0	100.0
0°-180°	7122.0	100.0

**Coefficient of Utilization**



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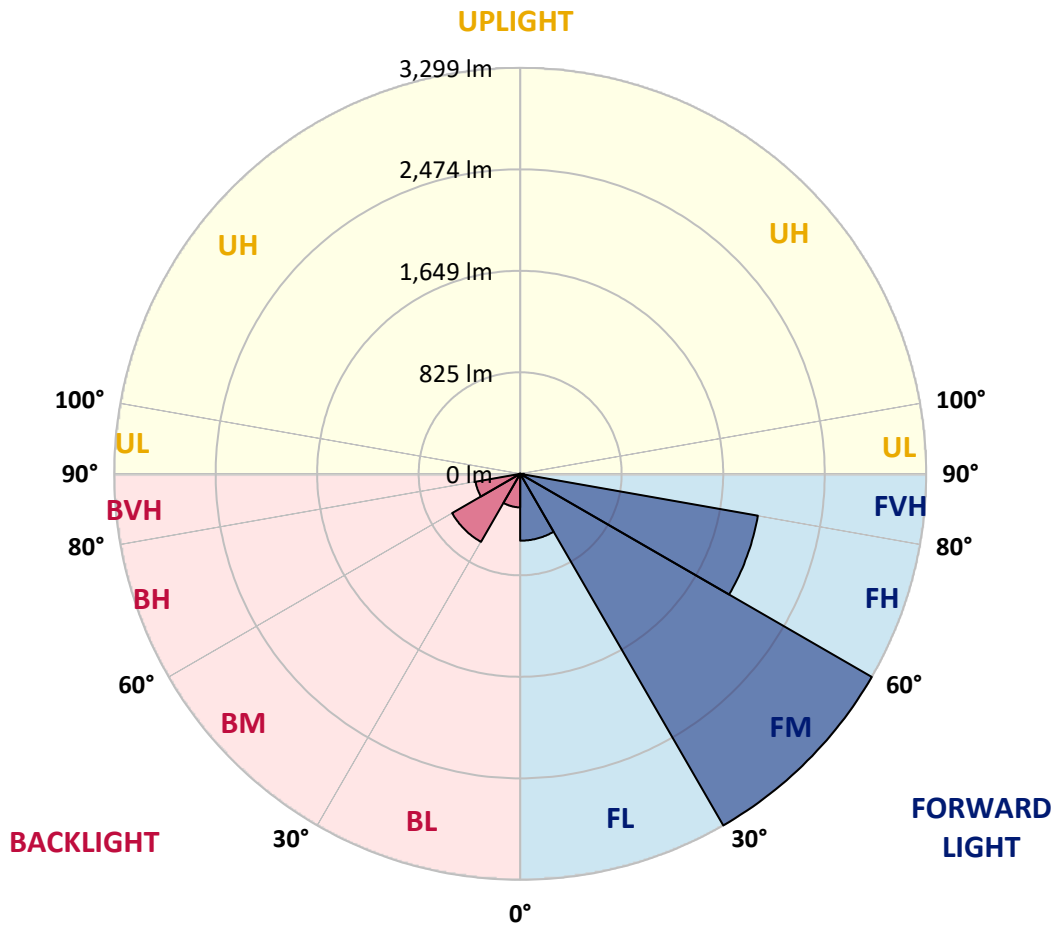
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.3	7.6			
FM (30°-60°)	3298.6	46.3			
FH (60°-80°)	1960.8	27.5			G2/5000
FVH (80°-90°)	29.2	0.4			G1/100
BL (0°-30°)	272.5	3.8	B1/500		
BM (30°-60°)	638.5	9.0	B1/1000		
BH (60°-80°)	368.2	5.2	B1/500		G1/500
BVH (80°-90°)	10.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9
2.5°	1247.0	1254.2	1250.1	1248.1	1244.5	1239.4	1235.3	1222.4	1209.1	1200.4
5°	1272.2	1279.4	1278.8	1280.9	1283.5	1285.0	1284.0	1269.6	1250.6	1235.8
7.5°	1250.6	1258.8	1265.5	1275.8	1293.7	1312.7	1321.9	1318.8	1299.3	1278.8
10°	1189.6	1198.3	1214.2	1238.3	1276.3	1317.3	1351.7	1367.5	1355.2	1332.7
12.5°	1077.8	1086.6	1117.8	1170.1	1233.7	1305.0	1370.6	1413.2	1416.3	1393.7
15°	952.2	960.9	994.3	1059.9	1156.8	1271.1	1380.9	1461.4	1488.6	1469.1
17.5°	874.3	882.0	907.1	959.9	1060.9	1203.5	1377.3	1512.7	1574.7	1559.3
20°	850.7	857.3	869.1	906.1	990.2	1133.2	1353.7	1560.9	1667.5	1658.8
22.5°	875.8	882.0	885.5	902.0	954.8	1087.1	1324.0	1610.1	1775.2	1776.2
25°	933.7	939.9	935.8	946.1	969.1	1072.7	1312.7	1668.0	1910.6	1921.8
27.5°	1029.1	1029.6	1019.9	1019.4	1023.0	1094.2	1324.5	1730.1	2081.3	2102.3
30°	1220.4	1212.7	1175.3	1134.8	1116.3	1158.9	1357.3	1803.4	2282.8	2320.3
32.5°	1515.2	1503.9	1435.2	1338.3	1240.9	1262.9	1416.3	1887.0	2502.3	2570.0
35°	1835.2	1832.1	1760.3	1616.2	1446.0	1411.1	1512.1	1996.7	2741.8	2849.4
37.5°	2132.6	2131.1	2090.0	1920.3	1713.2	1617.8	1666.0	2140.3	2998.1	3154.0
40°	2404.4	2409.0	2368.0	2216.2	2007.5	1882.9	1875.2	2317.7	3283.2	3485.8
42.5°	2639.2	2644.3	2602.8	2490.5	2298.2	2176.2	2132.1	2535.1	3561.7	3842.2
45°	2798.7	2830.5	2824.3	2734.6	2596.6	2470.0	2440.8	2807.9	3879.1	4220.1
47.5°	2843.8	2873.0	2919.2	2931.5	2847.4	2722.8	2757.7	3136.6	4200.1	4598.5
50°	2732.5	2759.7	2855.6	2983.3	3041.7	3003.3	3065.8	3488.9	4528.7	4975.9
52.5°	2513.1	2540.8	2661.8	2863.8	3102.2	3223.2	3375.0	3836.0	4847.2	5333.3
55°	2195.7	2224.9	2380.3	2609.0	2986.9	3314.0	3632.9	4182.6	5138.9	5654.8
57.5°	1763.9	1785.5	1947.0	2266.9	2696.6	3223.8	3823.2	4561.1	5413.8	5970.6
60°	1149.6	1168.6	1356.3	1713.2	2215.7	2922.3	3861.1	4983.1	5778.9	6381.4
62.5°	764.5	777.4	888.6	1150.6	1560.3	2343.3	3639.1	5319.9	6314.2	7096.2
65°	524.6	537.4	648.6	831.2	1008.1	1550.1	3000.7	5275.3	6799.3	7663.8
67.5°	374.3	385.1	479.4	651.7	729.7	900.4	2034.1	4705.1	6729.5	7685.3
70°	268.2	274.3	352.3	507.6	579.9	541.0	1131.2	3598.6	5892.2	7096.7
72.5°	187.7	189.7	244.6	386.6	467.1	394.8	538.4	2399.2	4456.4	5570.2
75°	127.2	129.7	164.6	283.6	374.8	301.5	285.1	1286.5	2616.1	3083.3
77.5°	77.9	79.0	106.1	193.8	280.5	229.7	183.6	545.1	1012.2	993.7
80°	44.1	44.1	67.7	120.5	191.3	148.2	128.7	231.8	320.5	281.5
82.5°	24.6	25.1	49.2	74.9	126.7	87.7	70.8	107.2	138.4	122.6
85°	10.3	11.3	30.3	35.4	60.5	43.6	28.7	45.1	51.3	45.6
87.5°	1.0	1.5	9.2	6.7	7.2	8.7	4.1	8.7	7.2	7.2
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°
1179.9	0°	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9	1179.9
1197.3	2.5°	1187.6	1179.9	1160.4	1137.8	1108.1	1093.7	1074.2	1060.9	1049.6	1050.7
1227.0	5°	1210.6	1191.2	1147.6	1093.2	1025.5	977.3	926.1	890.7	862.0	855.8
1268.1	7.5°	1242.4	1211.7	1135.3	1037.3	923.0	836.3	758.9	709.2	673.8	662.5
1317.8	10°	1283.5	1238.8	1119.4	967.1	802.5	692.2	609.2	570.2	546.1	537.9
1376.3	12.5°	1331.1	1270.1	1098.3	881.4	678.4	572.2	519.4	499.9	492.3	489.7
1448.1	15°	1391.1	1309.1	1066.6	779.9	573.3	498.9	476.4	473.8	474.8	473.8
1534.2	17.5°	1462.4	1351.7	1014.8	675.3	502.5	461.5	453.3	455.3	457.9	457.4
1630.6	20°	1540.3	1393.7	948.6	582.5	454.3	434.8	430.2	432.3	434.3	433.3
1741.9	22.5°	1629.1	1438.8	875.3	510.2	422.0	410.2	405.1	405.6	405.6	403.5
1882.9	25°	1735.2	1488.6	798.4	458.9	397.4	388.2	382.0	380.0	376.9	370.7
2054.1	27.5°	1861.9	1541.4	724.5	423.0	377.9	369.2	362.0	356.9	349.2	338.9
2259.8	30°	2004.4	1605.5	662.0	400.5	362.5	353.8	345.6	337.9	326.6	313.8
2496.1	32.5°	2172.1	1674.2	616.3	385.6	348.7	339.5	329.7	320.5	308.2	295.4
2761.8	35°	2372.1	1757.2	589.7	375.3	337.9	325.6	314.8	304.6	295.4	284.1
3050.4	37.5°	2589.0	1845.4	581.5	370.2	330.7	311.8	299.5	292.3	291.3	284.6
3362.7	40°	2826.4	1950.0	587.6	367.1	323.0	298.4	285.1	283.6	286.1	274.3
3696.5	42.5°	3077.6	2074.1	597.9	363.6	312.3	285.1	272.3	272.3	270.2	253.8
4049.3	45°	3349.4	2217.2	608.1	354.8	299.5	271.8	262.0	258.4	249.7	233.8
4404.1	47.5°	3623.2	2362.8	615.8	338.9	284.1	260.5	251.8	243.6	230.7	216.4
4752.3	50°	3883.2	2493.6	607.6	315.4	266.6	249.7	240.5	229.2	215.4	205.6
5082.0	52.5°	4115.5	2606.9	572.8	287.7	248.2	238.4	230.2	218.4	207.2	196.9
5379.4	55°	4317.5	2698.7	511.2	261.5	231.8	228.7	220.5	205.6	190.2	181.5
5674.3	57.5°	4511.3	2768.4	434.3	240.0	216.9	217.9	205.6	192.3	177.9	168.7
6071.7	60°	4769.2	2861.7	356.4	220.0	201.0	204.1	190.7	181.0	163.1	151.3
6753.1	62.5°	5181.5	3006.9	283.0	195.4	182.5	183.6	177.9	166.1	144.6	130.8
7258.2	65°	5508.6	2953.5	223.1	168.7	161.5	163.1	163.1	150.2	127.2	111.3
7285.4	67.5°	5471.7	2529.0	177.9	142.5	141.5	142.5	146.1	135.4	112.8	100.0
6730.6	70°	5040.5	2011.6	142.5	118.4	123.1	120.5	130.8	123.6	101.5	88.7
5217.9	72.5°	4112.9	1449.1	108.7	97.9	94.3	98.5	117.9	111.3	84.6	70.2
2763.8	75°	2403.3	773.3	81.0	77.4	68.2	82.0	104.6	94.9	64.6	51.8
847.1	77.5°	782.5	269.7	59.5	56.9	50.8	66.1	89.2	80.0	52.8	41.0
248.2	80°	209.7	81.5	40.5	37.4	32.8	49.2	70.8	63.6	37.9	26.7
106.7	82.5°	84.1	34.4	23.6	21.0	17.9	33.8	55.9	51.3	28.2	16.9
33.3	85°	27.2	11.3	8.7	6.7	8.2	21.0	33.3	34.9	20.0	8.7
5.1	87.5°	3.6	1.5	1.5	2.1	1.5	3.6	10.3	9.7	5.6	1.0
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°
1179.9
1040.4
842.0
651.2
531.7
488.2
473.3
456.4
432.8
402.5
369.7
337.9
312.8
295.9
283.0
284.1
274.8
253.8
233.3
215.9
204.1
195.9
180.5
167.7
149.7
129.7
109.7
97.9
87.2
68.7
50.3
39.5
26.2
16.9
6.7
0.0
0.0

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