

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: P939504

Luminaire Tested: **GALN-SB2A-850-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939504  
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-SB2A-850-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

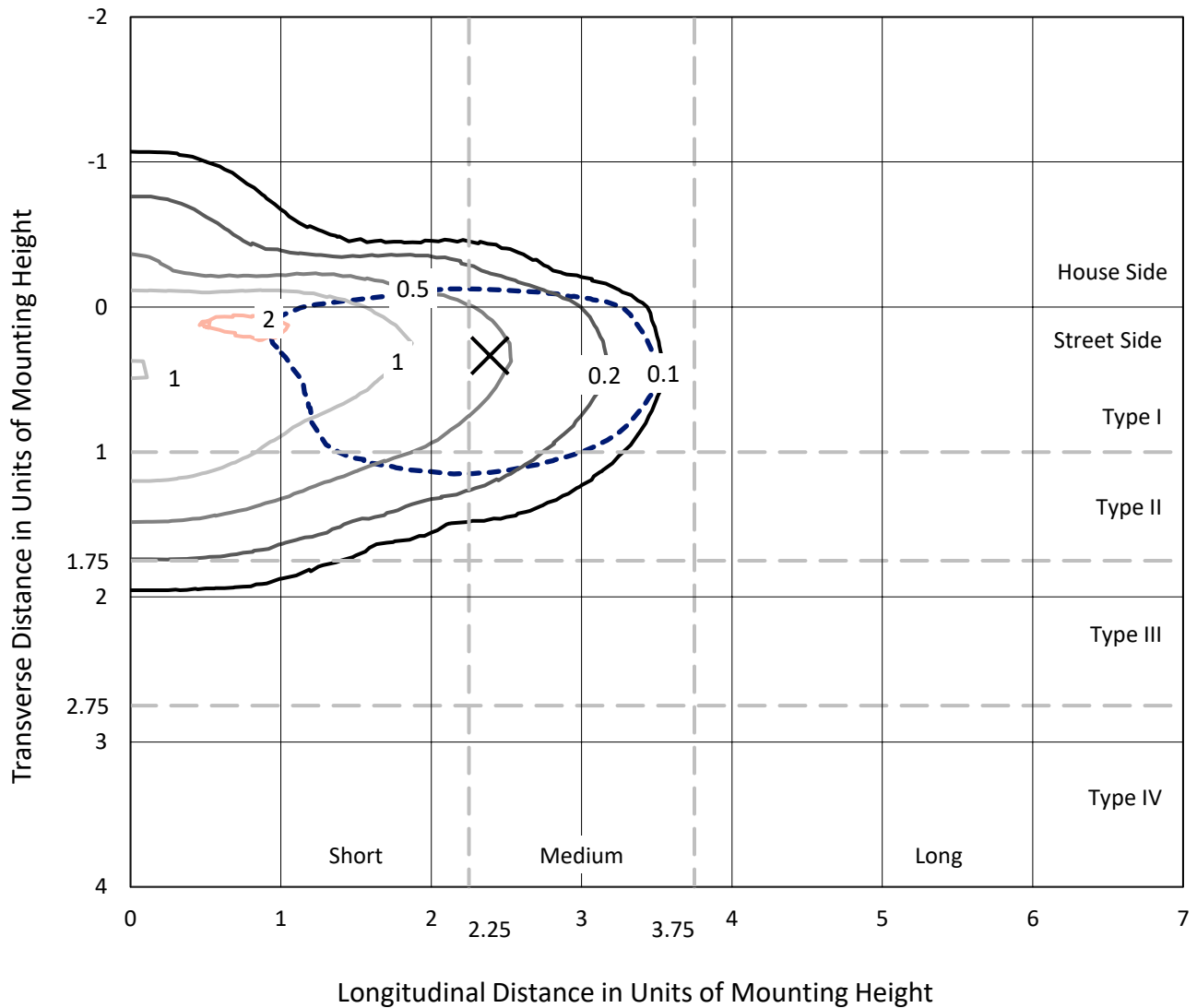
Lumens per Lamp: N/A  
Luminaire Lumens: 6266 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

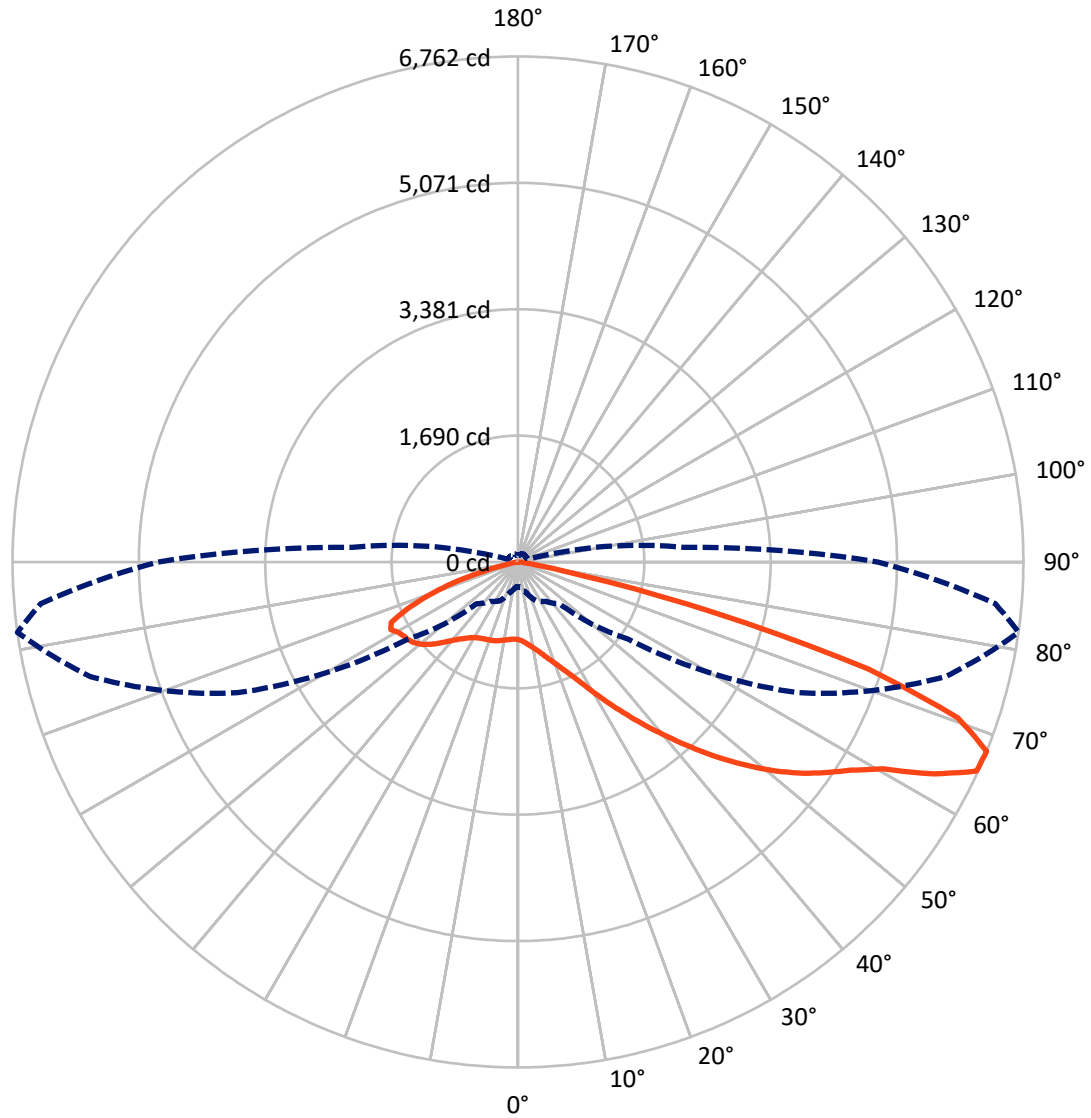
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1135.0	0.0	1135.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5131.0	0.0	5131.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6266.0	0.0	6266.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	1.5
10°-20°	240.3	3.8
20°-30°	384.9	6.1
30°-40°	680.7	10.9
40°-50°	1192.6	19.0
50°-60°	1590.6	25.4
60°-70°	1480.8	23.6
70°-80°	568.3	9.1
80°-90°	35.3	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°	6266.0	100.0
0°-180°	6266.0	100.0



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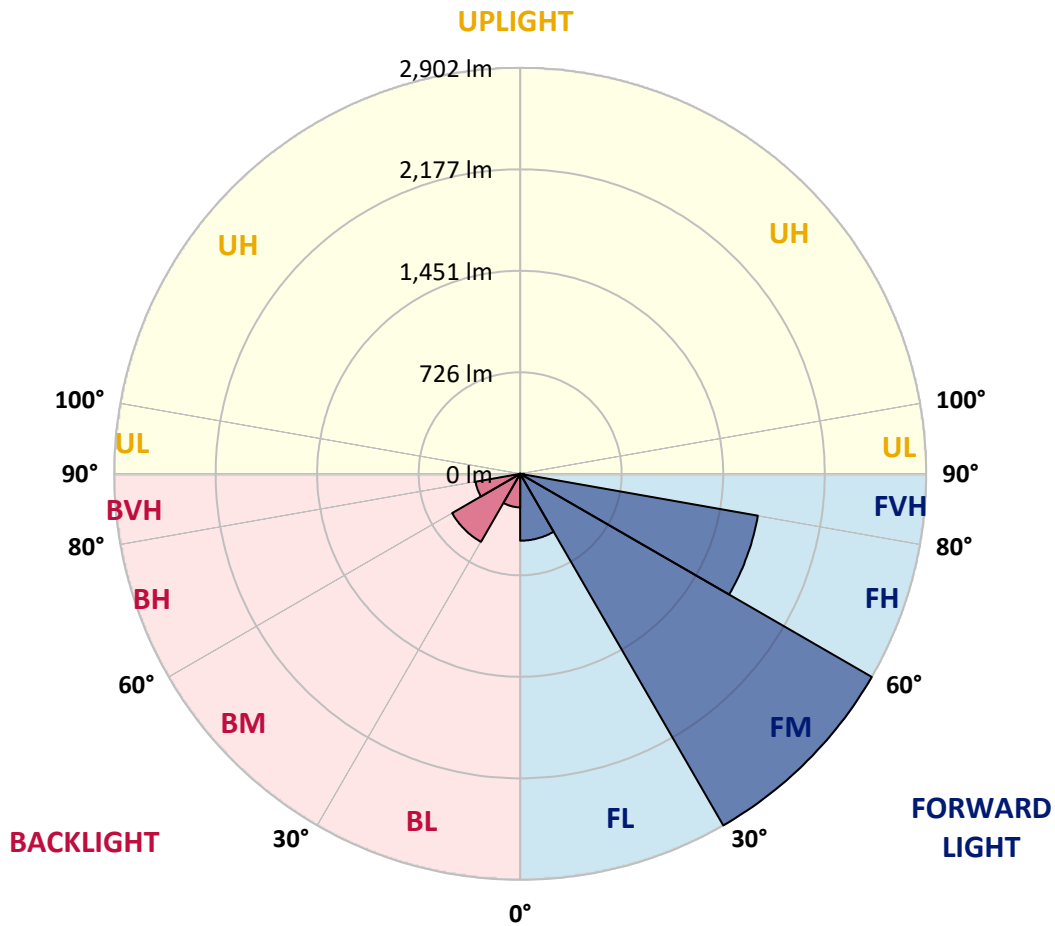
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.0	7.6			
FM (30°-60°)	2902.2	46.3			
FH (60°-80°)	1725.1	27.5			G1/1800
FVH (80°-90°)	25.7	0.4			G1/100
BL (0°-30°)	239.7	3.8	B1/500		
BM (30°-60°)	561.7	9.0	B1/1000		
BH (60°-80°)	324.0	5.2	B1/500		G1/500
BVH (80°-90°)	9.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1
2.5°	1097.2	1103.5	1099.9	1098.1	1094.9	1090.4	1086.8	1075.5	1063.8	1056.1
5°	1119.3	1125.6	1125.1	1126.9	1129.2	1130.5	1129.6	1117.0	1100.3	1087.2
7.5°	1100.3	1107.5	1113.4	1122.4	1138.2	1154.9	1163.0	1160.3	1143.2	1125.1
10°	1046.6	1054.3	1068.3	1089.5	1122.9	1159.0	1189.2	1203.2	1192.4	1172.5
12.5°	948.3	956.0	983.5	1029.5	1085.4	1148.1	1205.9	1243.3	1246.0	1226.2
15°	837.8	845.4	874.8	932.5	1017.8	1118.4	1214.9	1285.7	1309.6	1292.5
17.5°	769.2	776.0	798.1	844.5	933.4	1058.8	1211.8	1330.9	1385.4	1371.9
20°	748.4	754.3	764.7	797.2	871.1	997.0	1191.0	1373.3	1467.1	1459.4
22.5°	770.5	776.0	779.1	793.5	840.0	956.4	1164.8	1416.6	1561.8	1562.7
25°	821.5	826.9	823.3	832.3	852.6	943.8	1154.9	1467.5	1680.9	1690.9
27.5°	905.4	905.9	897.3	896.9	900.0	962.7	1165.3	1522.1	1831.2	1849.7
30°	1073.7	1066.9	1034.0	998.4	982.1	1019.6	1194.2	1586.6	2008.5	2041.4
32.5°	1333.1	1323.2	1262.7	1177.5	1091.7	1111.1	1246.0	1660.2	2201.5	2261.1
35°	1614.6	1611.9	1548.8	1422.0	1272.2	1241.5	1330.4	1756.7	2412.2	2507.0
37.5°	1876.3	1874.9	1838.8	1689.5	1507.2	1423.3	1465.7	1883.0	2637.8	2774.9
40°	2115.4	2119.4	2083.3	1949.8	1766.2	1656.6	1649.8	2039.1	2888.6	3066.8
42.5°	2322.0	2326.5	2290.0	2191.2	2022.0	1914.6	1875.8	2230.4	3133.6	3380.4
45°	2462.3	2490.3	2484.9	2405.9	2284.6	2173.1	2147.4	2470.4	3412.8	3712.9
47.5°	2502.0	2527.7	2568.3	2579.1	2505.2	2395.5	2426.2	2759.6	3695.3	4045.8
50°	2404.1	2428.0	2512.4	2624.7	2676.1	2642.3	2697.3	3069.5	3984.4	4377.8
52.5°	2211.0	2235.4	2341.8	2519.6	2729.4	2835.8	2969.4	3374.9	4264.6	4692.3
55°	1931.8	1957.5	2094.2	2295.4	2627.9	2915.7	3196.3	3679.9	4521.3	4975.1
57.5°	1551.9	1570.9	1713.0	1994.5	2372.5	2836.3	3363.7	4012.9	4763.1	5253.0
60°	1011.4	1028.1	1193.3	1507.2	1949.4	2571.0	3397.1	4384.1	5084.3	5614.4
62.5°	672.6	683.9	781.8	1012.3	1372.8	2061.7	3201.7	4680.5	5555.3	6243.3
65°	461.5	472.8	570.7	731.3	886.9	1363.8	2640.0	4641.3	5982.1	6742.7
67.5°	329.3	338.8	421.8	573.4	642.0	792.2	1789.7	4139.6	5920.7	6761.6
70°	235.9	241.4	309.9	446.6	510.2	475.9	995.2	3166.1	5184.0	6243.7
72.5°	165.1	166.9	215.2	340.2	411.0	347.4	473.7	2110.9	3920.8	4900.7
75°	111.9	114.1	144.8	249.5	329.8	265.3	250.8	1131.9	2301.7	2712.7
77.5°	68.6	69.5	93.4	170.5	246.8	202.1	161.5	479.6	890.5	874.3
80°	38.8	38.8	59.5	106.0	168.3	130.4	113.2	203.9	282.0	247.7
82.5°	21.7	22.1	43.3	65.9	111.4	77.1	62.3	94.3	121.8	107.8
85°	9.0	9.9	26.6	31.1	53.2	38.3	25.3	39.7	45.1	40.2
87.5°	0.9	1.4	8.1	5.9	6.3	7.7	3.6	7.7	6.3	6.3
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°
1038.1	0°	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1	1038.1
1053.4	2.5°	1044.8	1038.1	1020.9	1001.1	974.9	962.3	945.1	933.4	923.5	924.4
1079.6	5°	1065.1	1048.0	1009.6	961.8	902.3	859.9	814.8	783.6	758.4	752.9
1115.7	7.5°	1093.1	1066.0	998.8	912.6	812.0	735.8	667.7	623.9	592.8	582.9
1159.4	10°	1129.2	1089.9	984.8	850.8	706.0	609.0	535.9	501.7	480.5	473.2
1210.8	12.5°	1171.1	1117.5	966.3	775.5	596.9	503.5	457.0	439.9	433.1	430.8
1274.0	15°	1223.9	1151.8	938.4	686.2	504.4	439.0	419.1	416.8	417.8	416.8
1349.8	17.5°	1286.6	1189.2	892.8	594.1	442.1	406.0	398.8	400.6	402.9	402.4
1434.6	20°	1355.2	1226.2	834.6	512.5	399.7	382.6	378.5	380.3	382.1	381.2
1532.5	22.5°	1433.3	1265.9	770.1	448.9	371.3	360.9	356.4	356.8	356.8	355.0
1656.6	25°	1526.6	1309.6	702.4	403.8	349.6	341.5	336.1	334.3	331.6	326.2
1807.3	27.5°	1638.1	1356.1	637.5	372.2	332.5	324.8	318.5	314.0	307.2	298.2
1988.2	30°	1763.5	1412.5	582.4	352.3	319.0	311.3	304.1	297.3	287.4	276.1
2196.1	32.5°	1911.0	1473.0	542.3	339.3	306.8	298.7	290.1	282.0	271.1	259.9
2429.8	35°	2087.0	1546.0	518.8	330.2	297.3	286.5	277.0	268.0	259.9	249.9
2683.8	37.5°	2277.8	1623.6	511.6	325.7	291.0	274.3	263.5	257.1	256.2	250.4
2958.6	40°	2486.7	1715.7	517.0	323.0	284.2	262.6	250.8	249.5	251.7	241.4
3252.2	42.5°	2707.7	1824.8	526.0	319.9	274.7	250.8	239.6	239.6	237.7	223.3
3562.6	45°	2946.8	1950.7	535.0	312.2	263.5	239.1	230.5	227.4	219.7	205.7
3874.8	47.5°	3187.7	2078.8	541.8	298.2	249.9	229.2	221.5	214.3	203.0	190.4
4181.1	50°	3416.5	2193.9	534.6	277.4	234.6	219.7	211.6	201.7	189.5	180.9
4471.2	52.5°	3620.8	2293.6	503.9	253.1	218.3	209.8	202.6	192.2	182.3	173.2
4732.9	55°	3798.6	2374.3	449.8	230.1	203.9	201.2	194.0	180.9	167.4	159.7
4992.3	57.5°	3969.1	2435.7	382.1	211.1	190.8	191.7	180.9	169.2	156.5	148.4
5341.9	60°	4196.0	2517.8	313.5	193.5	176.8	179.6	167.8	159.3	143.5	133.1
5941.5	62.5°	4558.7	2645.5	249.0	171.9	160.6	161.5	156.5	146.2	127.2	115.0
6385.8	65°	4846.6	2598.5	196.2	148.4	142.1	143.5	143.5	132.2	111.9	97.9
6409.7	67.5°	4814.1	2225.0	156.5	125.4	124.5	125.4	128.6	119.1	99.2	88.0
5921.6	70°	4434.7	1769.8	125.4	104.2	108.3	106.0	115.0	108.7	89.3	78.0
4590.8	72.5°	3618.6	1274.9	95.6	86.2	83.0	86.6	103.8	97.9	74.4	61.8
2431.6	75°	2114.5	680.3	71.3	68.1	60.0	72.2	92.0	83.5	56.8	45.6
745.3	77.5°	688.4	237.3	52.3	50.1	44.7	58.2	78.5	70.4	46.5	36.1
218.3	80°	184.5	71.7	35.6	32.9	28.9	43.3	62.3	55.9	33.4	23.5
93.8	82.5°	74.0	30.2	20.8	18.5	15.8	29.8	49.2	45.1	24.8	14.9
29.3	85°	23.9	9.9	7.7	5.9	7.2	18.5	29.3	30.7	17.6	7.7
4.5	87.5°	3.2	1.4	1.4	1.8	1.4	3.2	9.0	8.6	5.0	0.9
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°
1038.1
915.4
740.8
572.9
467.8
429.5
416.4
401.5
380.8
354.1
325.3
297.3
275.2
260.3
249.0
249.9
241.8
223.3
205.3
189.9
179.6
172.3
158.8
147.5
131.7
114.1
96.5
86.2
76.7
60.5
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