

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: P939339

Luminaire Tested: **GALN-SB1D-850-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-850-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

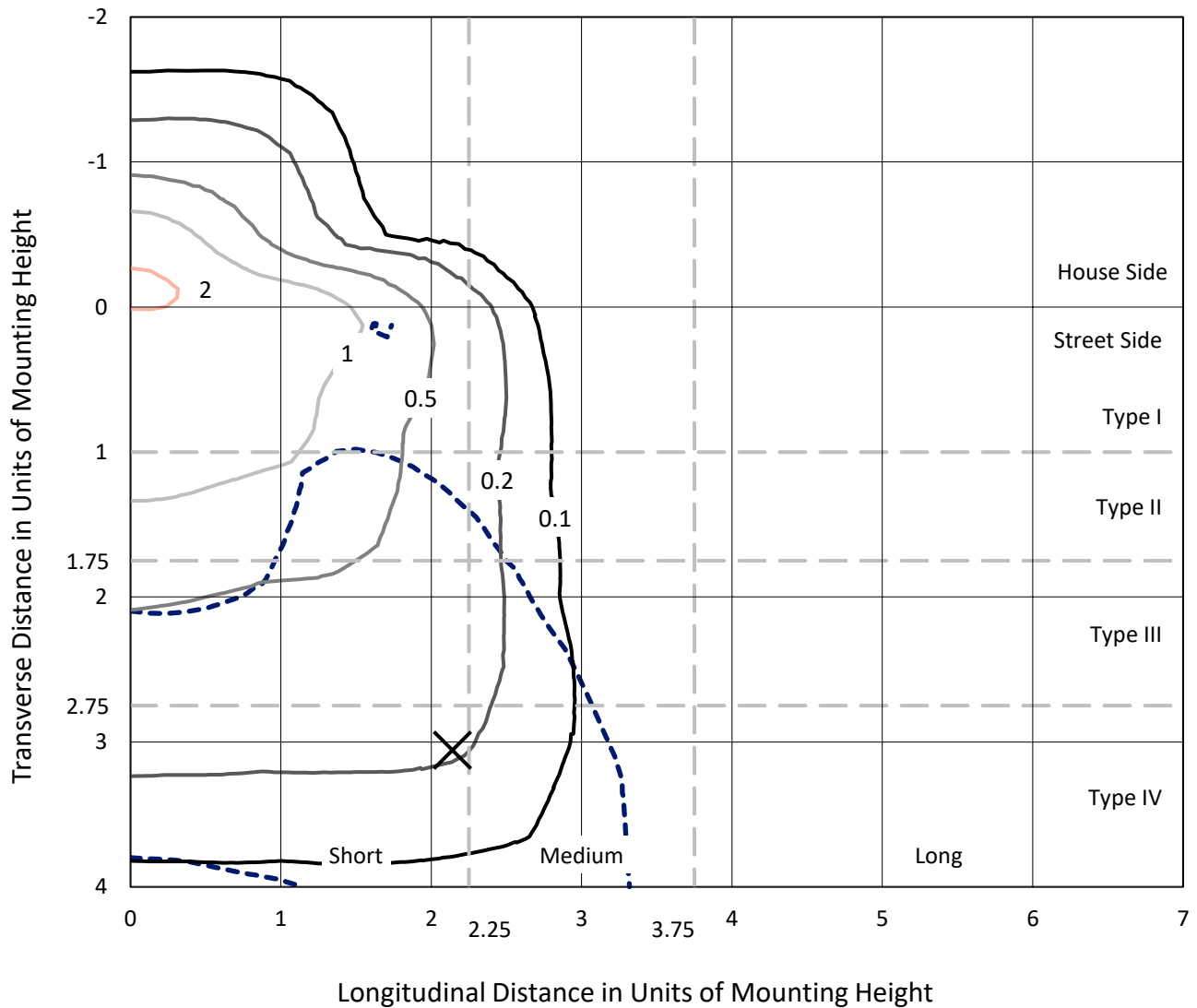
Lumens per Lamp: N/A  
Luminaire Lumens: 9624 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

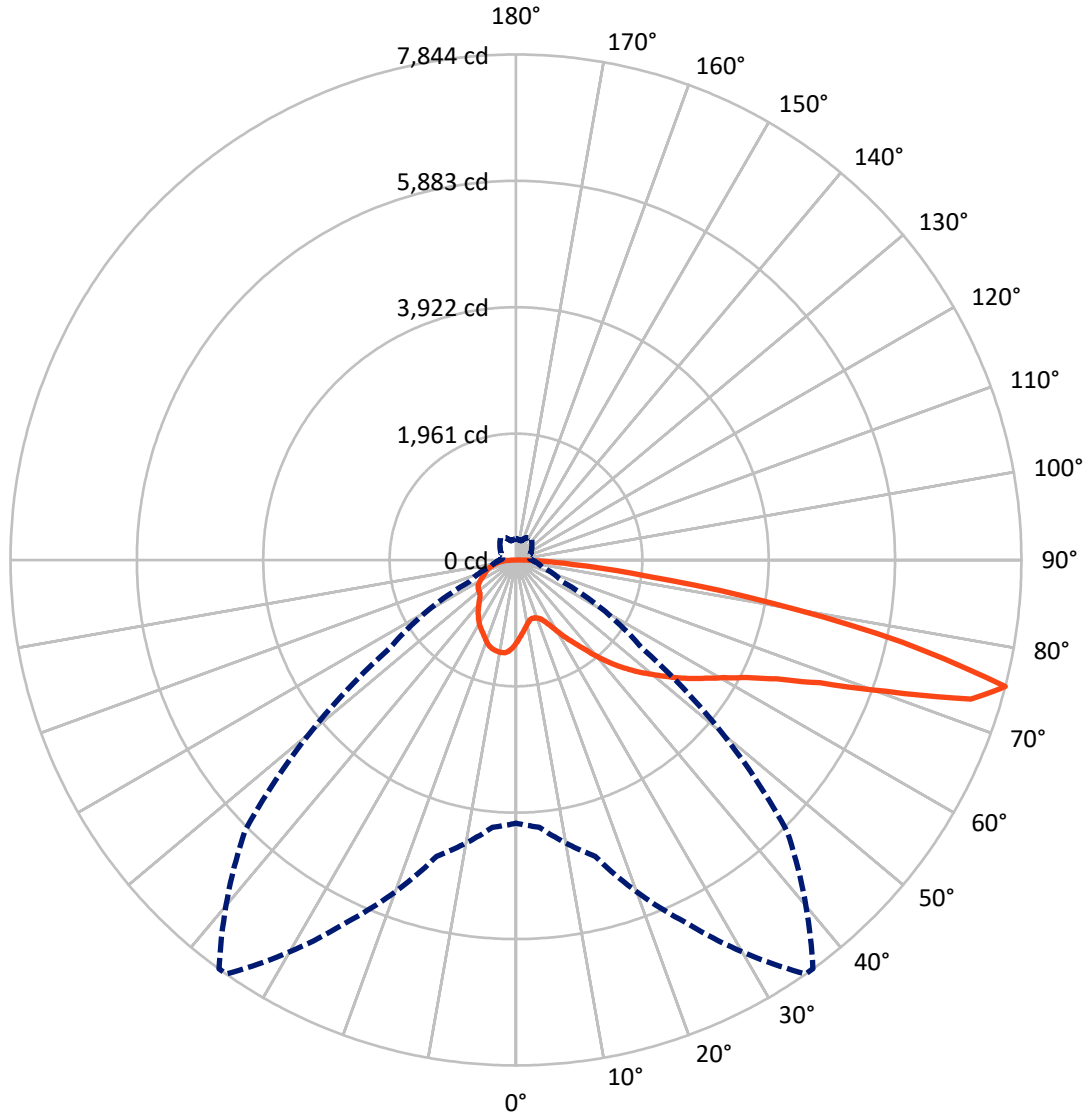
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2290.3	0.0	2290.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	7333.7	0.0	7333.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	9624.0	0.0	9624.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	1.3
10°-20°	350.2	3.6
20°-30°	588.1	6.1
30°-40°	914.1	9.5
40°-50°	1356.7	14.1
50°-60°	1873.0	19.5
60°-70°	2272.4	23.6
70°-80°	1878.0	19.5
80°-90°	270.1	2.8
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°	9624.0	100.0
0°-180°	9624.0	100.0

**Coefficient of Utilization**



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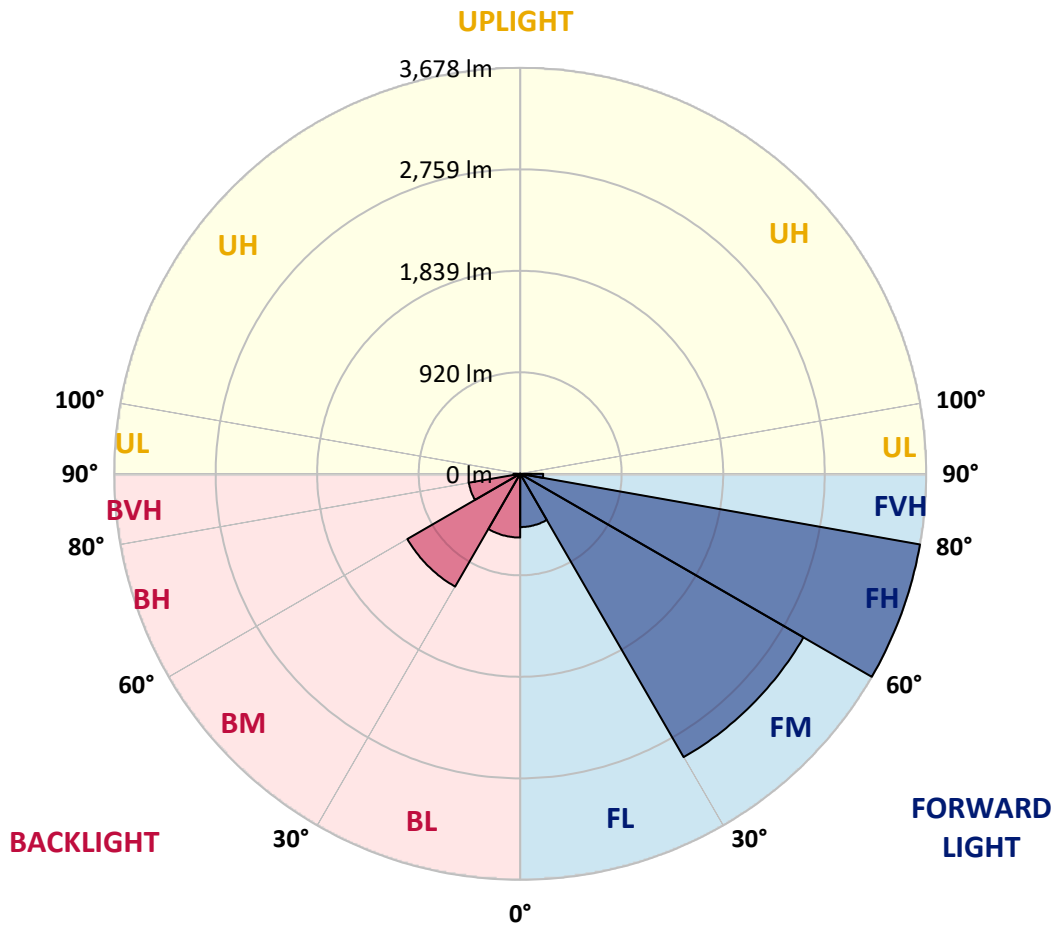
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.6	5.0			
FM (30°-60°)	2963.7	30.8			
FH (60°-80°)	3678.2	38.2			G2/5000
FVH (80°-90°)	209.3	2.2			G2/225
BL (0°-30°)	577.2	6.0	B2/1000		
BM (30°-60°)	1180.1	12.3	B2/2500		
BH (60°-80°)	472.2	4.9	B1/500		G1/500
BVH (80°-90°)	60.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5
2.5°	1182.6	1189.9	1193.0	1191.4	1199.2	1198.2	1209.1	1222.6	1241.4	1259.6
5°	1091.5	1099.3	1106.1	1112.3	1127.4	1132.1	1149.3	1175.3	1209.6	1244.5
7.5°	1006.7	1013.5	1023.9	1035.3	1060.8	1065.5	1094.1	1134.7	1182.6	1233.6
10°	937.5	944.3	955.2	968.2	1000.0	1005.7	1042.1	1096.2	1158.6	1223.2
12.5°	907.9	910.0	916.2	929.2	956.8	960.4	1000.5	1062.4	1135.2	1215.3
15°	906.3	910.5	911.0	917.8	940.6	942.2	979.1	1040.5	1120.7	1213.8
17.5°	921.9	925.0	920.4	924.5	943.8	946.4	975.5	1030.1	1116.0	1220.6
20°	963.5	966.1	952.1	946.4	960.4	962.5	991.1	1036.9	1120.7	1234.6
22.5°	1052.0	1053.5	1019.2	995.8	996.8	997.9	1022.8	1064.5	1138.9	1260.1
25°	1189.9	1188.8	1134.2	1088.9	1062.9	1057.2	1073.8	1109.2	1169.6	1293.9
27.5°	1351.1	1343.3	1288.7	1221.1	1164.4	1156.0	1152.4	1167.5	1213.3	1338.7
30°	1533.2	1525.9	1467.2	1378.7	1300.2	1286.6	1252.3	1244.5	1278.3	1399.5
32.5°	1733.0	1728.3	1658.1	1550.9	1445.8	1430.2	1372.5	1351.7	1378.2	1491.6
35°	1900.5	1896.4	1838.1	1727.8	1599.3	1580.1	1521.3	1497.9	1511.4	1609.7
37.5°	2051.9	2049.9	1999.9	1913.0	1780.4	1756.9	1690.9	1683.1	1680.5	1765.3
40°	2192.4	2187.2	2135.2	2089.4	1991.1	1969.7	1911.5	1904.7	1884.9	1956.7
42.5°	2348.0	2334.4	2259.0	2237.7	2211.1	2193.5	2158.6	2159.6	2115.9	2172.6
45°	2474.9	2467.1	2389.6	2377.1	2405.7	2398.4	2428.6	2436.4	2351.6	2399.0
47.5°	2611.2	2603.9	2538.4	2529.5	2607.1	2609.1	2715.8	2718.4	2581.6	2634.1
50°	2779.3	2768.9	2703.8	2714.8	2801.6	2809.5	3004.6	2986.9	2793.3	2872.9
52.5°	2890.1	2896.3	2882.3	2900.0	3018.6	3025.9	3288.6	3243.4	3003.0	3108.6
55°	2971.8	2984.3	3028.0	3068.5	3247.5	3254.8	3556.6	3487.4	3176.8	3327.1
57.5°	3076.9	3059.2	3140.9	3219.9	3465.0	3484.2	3817.2	3722.5	3330.8	3515.5
60°	3227.7	3215.3	3278.7	3395.8	3708.5	3739.2	4093.0	3934.3	3443.7	3664.8
62.5°	3533.7	3502.5	3512.3	3615.9	4015.4	4056.0	4404.1	4119.0	3499.8	3723.0
65°	3991.0	3937.4	3887.5	3959.2	4447.8	4487.8	4755.3	4264.1	3479.0	3610.1
67.5°	4566.9	4513.9	4452.5	4520.1	5084.6	5116.3	5188.6	4345.8	3315.2	3175.2
70°	5041.9	5022.2	5095.5	5373.9	6101.7	6102.8	5744.3	4278.2	2866.2	2251.2
72.5°	4979.0	4967.0	5353.6	6214.1	7383.7	7356.1	6270.3	3766.2	1930.7	1015.6
75°	4084.6	4162.2	4761.0	6199.0	7844.1	7840.5	5948.2	2394.3	798.6	420.9
77.5°	2190.3	2313.1	3090.9	4576.8	6123.6	6215.7	4181.9	837.6	342.9	269.5
80°	714.3	821.5	1232.0	2330.3	3979.0	3961.8	1792.3	328.8	234.6	190.9
82.5°	303.3	315.8	550.4	1100.4	2042.1	2010.3	570.7	188.9	164.9	130.6
85°	118.6	132.7	243.0	508.8	884.5	865.2	206.0	93.6	105.6	85.3
87.5°	39.0	47.3	86.9	174.3	275.2	265.3	50.5	32.3	45.8	39.0
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°
1282.5	0°	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5
1286.1	2.5°	1293.4	1301.7	1311.6	1326.2	1338.7	1349.1	1360.0	1366.7	1369.3	1377.2
1288.2	5°	1302.8	1321.0	1345.4	1369.3	1392.8	1406.8	1419.3	1425.5	1431.3	1435.4
1293.9	7.5°	1318.4	1341.8	1380.3	1411.5	1431.3	1442.7	1451.0	1448.9	1451.0	1452.1
1300.2	10°	1331.9	1364.7	1410.4	1440.1	1455.2	1455.7	1453.6	1446.3	1442.7	1443.2
1309.5	12.5°	1348.0	1384.4	1433.9	1458.8	1463.0	1451.6	1442.7	1430.2	1425.5	1423.5
1323.6	15°	1369.9	1411.5	1459.4	1468.7	1458.3	1443.7	1428.7	1408.4	1398.0	1389.6
1347.5	17.5°	1396.4	1442.2	1479.1	1472.4	1450.0	1426.1	1401.6	1370.9	1349.6	1340.7
1380.3	20°	1433.3	1474.4	1494.2	1464.6	1430.7	1394.3	1352.7	1315.2	1295.5	1286.6
1421.9	22.5°	1478.1	1517.6	1508.8	1451.0	1403.2	1344.9	1292.9	1265.3	1255.4	1249.2
1475.5	25°	1531.7	1565.5	1519.2	1431.3	1357.9	1279.3	1239.3	1230.4	1225.8	1221.1
1541.0	27.5°	1601.4	1619.6	1527.0	1402.1	1287.1	1209.6	1195.1	1196.6	1195.1	1187.3
1632.1	30°	1693.5	1689.8	1534.3	1354.8	1206.0	1146.7	1147.7	1154.5	1155.5	1150.3
1759.0	32.5°	1814.7	1777.8	1537.9	1293.4	1128.5	1091.5	1092.6	1099.8	1105.1	1096.2
1925.0	35°	1961.4	1880.3	1532.2	1216.4	1068.6	1039.0	1031.2	1033.3	1034.8	1026.5
2126.3	37.5°	2132.6	1995.2	1506.7	1131.1	1019.2	987.5	970.8	956.8	948.5	940.6
2354.2	40°	2320.4	2120.6	1459.9	1047.8	964.1	932.8	907.9	881.3	853.2	842.8
2595.6	42.5°	2517.1	2249.6	1403.2	968.2	900.6	875.1	848.6	810.1	767.9	746.6
2846.4	45°	2721.0	2381.8	1347.5	889.7	835.6	824.6	793.9	747.6	701.8	674.8
3097.7	47.5°	2920.8	2506.7	1265.8	810.6	774.7	786.6	762.7	720.1	669.1	626.4
3346.9	50°	3111.7	2623.7	1132.1	730.5	725.3	775.2	752.3	690.9	632.6	578.0
3591.4	52.5°	3301.1	2718.4	960.9	657.6	698.7	772.1	738.8	671.1	599.9	542.6
3821.4	55°	3461.9	2767.3	796.0	595.2	660.2	745.5	722.7	647.7	553.6	492.7
3979.0	57.5°	3553.4	2727.8	658.7	533.8	607.2	701.8	695.1	597.8	498.4	451.6
4009.7	60°	3513.9	2567.5	546.3	480.2	556.7	654.5	647.2	548.4	456.3	412.1
3845.3	62.5°	3295.9	2262.1	457.3	433.4	510.9	606.1	599.3	510.4	424.0	381.4
3408.8	65°	2856.8	1840.2	388.1	394.4	464.6	547.8	557.7	478.6	398.5	356.9
2637.2	67.5°	2178.9	1332.9	334.0	360.5	419.3	490.6	519.2	455.8	377.2	337.7
1525.9	70°	1241.9	757.0	288.2	327.8	379.3	437.5	489.6	437.5	354.3	321.5
571.8	72.5°	470.8	347.5	249.2	295.0	340.8	392.8	456.8	408.9	327.8	303.3
295.5	75°	251.3	211.7	209.7	256.5	296.6	349.1	415.7	380.8	308.0	320.5
204.5	77.5°	171.2	149.8	175.3	219.6	248.2	300.7	372.0	338.2	266.9	265.9
141.5	80°	118.6	106.1	142.6	176.9	192.0	252.9	324.6	290.3	217.5	202.9
87.4	82.5°	71.3	69.2	106.7	132.1	135.8	195.1	269.0	243.5	177.9	155.0
52.0	85°	39.0	41.1	68.2	77.5	79.1	136.3	210.7	188.3	136.8	115.0
18.7	87.5°	10.9	14.0	25.0	30.7	38.0	70.8	125.4	111.9	68.7	47.9
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

<u>180°</u>
1282.5
1376.6
1436.5
1453.6
1444.3
1422.4
1392.2
1341.3
1285.6
1250.2
1221.1
1188.8
1152.9
1100.4
1032.2
945.8
847.5
749.2
672.7
621.7
573.3
536.4
487.5
445.4
405.8
374.6
350.1
331.4
317.4
299.2
330.9
245.0
194.1
156.1
116.0
47.9
0.0

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