

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: P940229

Luminaire Tested: **GALN-SB3A-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940229
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-SB3A-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9639 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

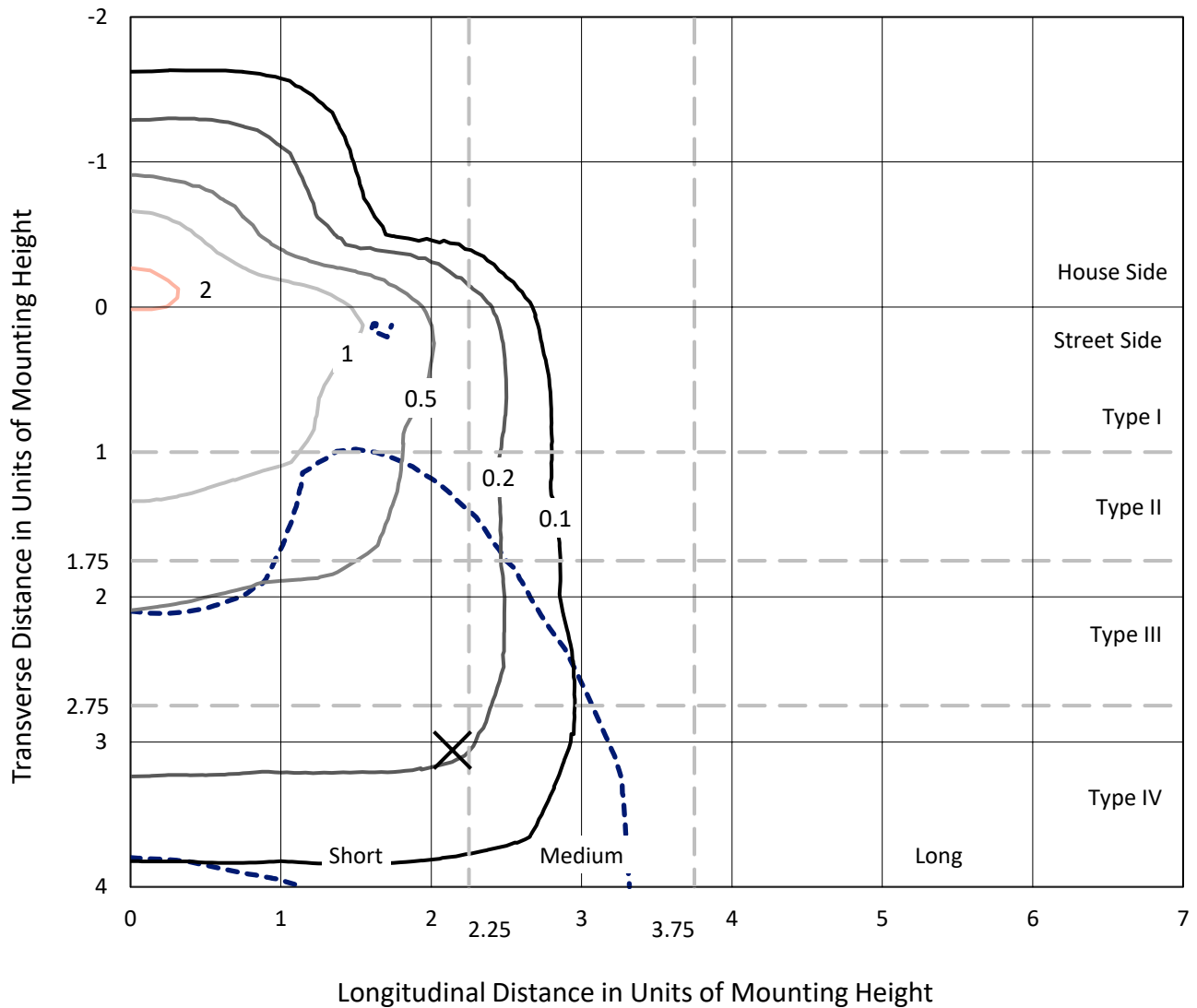
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940229
 CATALOG NUMBER: GALN-SB3A-940-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

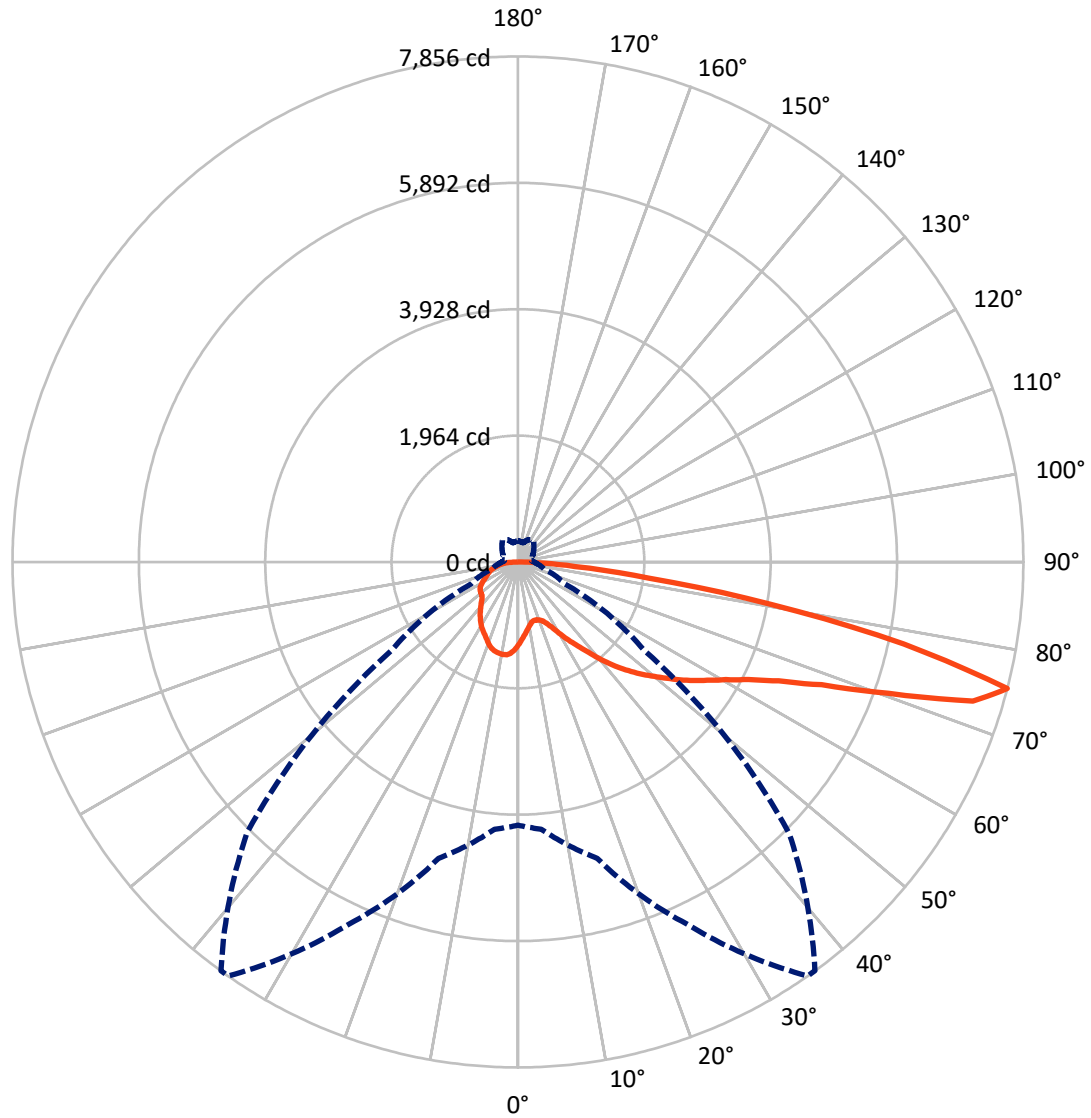
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P940229
CATALOG NUMBER: GALN-SB3A-940-U-T4FT

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
House Side	Lumens	2293.8	0.0	2293.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7345.1	0.0	7345.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	9639.0	0.0	9639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	1.3
10°-20°	350.8	3.6
20°-30°	589.1	6.1
30°-40°	915.5	9.5
40°-50°	1358.8	14.1
50°-60°	1875.9	19.5
60°-70°	2275.9	23.6
70°-80°	1880.9	19.5
80°-90°	270.5	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°	9639.0	100.0
0°-180°	9639.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940229

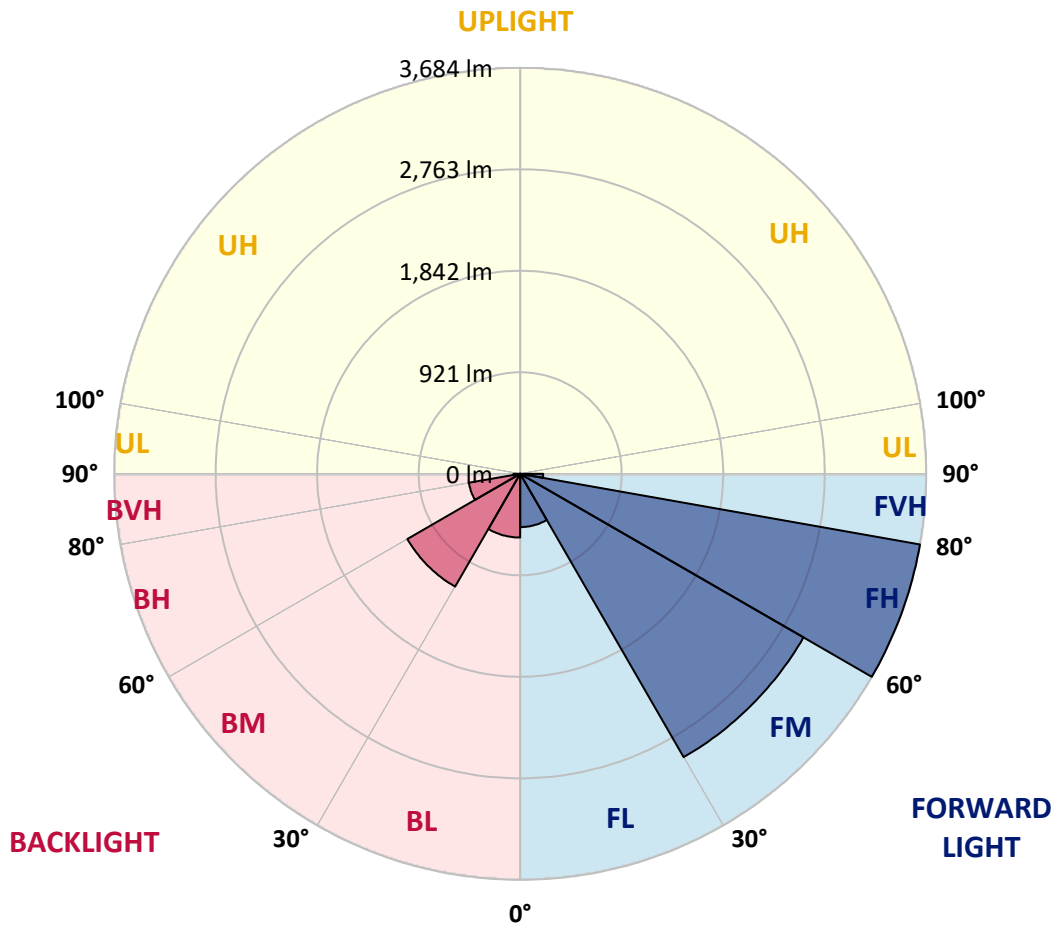
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.4	5.0			
FM (30°-60°)	2968.3	30.8			
FH (60°-80°)	3683.9	38.2			G2/5000
FVH (80°-90°)	209.6	2.2			G2/225
BL (0°-30°)	578.1	6.0	B2/1000		
BM (30°-60°)	1181.9	12.3	B2/2500		
BH (60°-80°)	472.9	4.9	B1/500		G1/500
BVH (80°-90°)	60.9	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



REPORT NUMBER: P940229

CATALOG NUMBER: GALN-SB3A-940-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1184.4	1191.7	1194.8	1193.3	1201.1	1200.0	1211.0	1224.5	1243.3	1261.5
5°	1093.2	1101.0	1107.8	1114.1	1129.2	1133.9	1151.1	1177.1	1211.5	1246.4
7.5°	1008.3	1015.1	1025.5	1036.9	1062.5	1067.2	1095.8	1136.5	1184.4	1235.5
10°	939.0	945.8	956.7	969.7	1001.5	1007.2	1043.7	1097.9	1160.4	1225.1
12.5°	909.3	911.4	917.6	930.6	958.3	961.9	1002.0	1064.0	1137.0	1217.2
15°	907.7	911.9	912.4	919.2	942.1	943.7	980.7	1042.2	1122.4	1215.7
17.5°	923.4	926.5	921.8	926.0	945.2	947.8	977.0	1031.7	1117.7	1222.5
20°	965.0	967.6	953.6	947.8	961.9	964.0	992.7	1038.5	1122.4	1236.5
22.5°	1053.6	1055.2	1020.8	997.3	998.4	999.4	1024.4	1066.1	1140.6	1262.1
25°	1191.7	1190.7	1136.0	1090.6	1064.6	1058.8	1075.5	1110.9	1171.4	1295.9
27.5°	1353.2	1345.4	1290.7	1223.0	1166.2	1157.8	1154.2	1169.3	1215.2	1340.7
30°	1535.6	1528.3	1469.4	1380.9	1302.2	1288.6	1254.2	1246.4	1280.3	1401.7
32.5°	1735.7	1731.0	1660.7	1553.3	1448.1	1432.4	1374.6	1353.8	1380.3	1493.9
35°	1903.5	1899.3	1841.0	1730.5	1601.8	1582.5	1523.6	1500.2	1513.7	1612.2
37.5°	2055.1	2053.1	2003.0	1916.0	1783.1	1759.7	1693.5	1685.7	1683.1	1768.0
40°	2195.8	2190.6	2138.5	2092.7	1994.2	1972.8	1914.4	1907.7	1887.9	1959.8
42.5°	2351.6	2338.1	2262.5	2241.2	2214.6	2196.9	2162.0	2163.0	2119.2	2176.0
45°	2478.8	2471.0	2393.3	2380.8	2409.5	2402.2	2432.4	2440.2	2355.3	2402.7
47.5°	2615.3	2608.0	2542.3	2533.5	2611.1	2613.2	2720.0	2722.6	2585.6	2638.2
50°	2783.6	2773.2	2708.1	2719.0	2806.0	2813.8	3009.2	2991.5	2797.7	2877.4
52.5°	2894.6	2900.9	2886.8	2904.5	3023.3	3030.6	3293.7	3248.4	3007.7	3113.5
55°	2976.4	2988.9	3032.7	3073.3	3252.6	3259.9	3562.1	3492.8	3181.7	3332.3
57.5°	3081.7	3063.9	3145.8	3225.0	3470.4	3489.7	3823.2	3728.3	3336.0	3520.9
60°	3232.8	3220.3	3283.8	3401.1	3714.3	3745.0	4099.3	3940.4	3449.0	3670.5
62.5°	3539.2	3507.9	3517.8	3621.5	4021.7	4062.3	4410.9	4125.4	3505.3	3728.8
65°	3997.2	3943.5	3893.5	3965.4	4454.7	4494.8	4762.7	4270.8	3484.5	3615.8
67.5°	4574.0	4520.9	4459.4	4527.1	5092.5	5124.3	5196.7	4352.6	3320.3	3180.2
70°	5049.8	5030.0	5103.5	5382.2	6111.2	6112.3	5753.2	4284.8	2870.6	2254.7
72.5°	4986.7	4974.7	5361.9	6223.8	7395.2	7367.5	6280.1	3772.1	1933.7	1017.1
75°	4091.0	4168.6	4768.4	6208.7	7856.3	7852.7	5957.5	2398.0	799.9	421.6
77.5°	2193.7	2316.7	3095.7	4583.9	6133.1	6225.3	4188.4	838.9	343.4	269.9
80°	715.4	822.8	1233.9	2333.9	3985.2	3968.0	1795.1	329.3	235.0	191.2
82.5°	303.8	316.3	551.3	1102.1	2045.2	2013.5	571.6	189.2	165.2	130.8
85°	118.8	132.9	243.3	509.6	885.8	866.6	206.3	93.8	105.8	85.5
87.5°	39.1	47.4	87.0	174.6	275.7	265.8	50.5	32.3	45.9	39.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940229
 CATALOG NUMBER: GALN-SB3A-940-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1284.5	0°	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5
1288.1	2.5°	1295.4	1303.7	1313.6	1328.2	1340.7	1351.2	1362.1	1368.9	1371.5	1379.3
1290.2	5°	1304.8	1323.0	1347.5	1371.5	1394.9	1409.0	1421.5	1427.8	1433.5	1437.7
1295.9	7.5°	1320.4	1343.9	1382.4	1413.7	1433.5	1445.0	1453.3	1451.2	1453.3	1454.3
1302.2	10°	1334.0	1366.8	1412.6	1442.3	1457.5	1458.0	1455.9	1448.6	1445.0	1445.5
1311.6	12.5°	1350.1	1386.6	1436.1	1461.1	1465.3	1453.8	1445.0	1432.4	1427.8	1425.7
1325.6	15°	1372.0	1413.7	1461.6	1471.0	1460.6	1446.0	1430.9	1410.6	1400.1	1391.8
1349.6	17.5°	1398.6	1444.4	1481.4	1474.7	1452.2	1428.3	1403.8	1373.0	1351.7	1342.8
1382.4	20°	1435.6	1476.7	1496.5	1466.8	1433.0	1396.5	1354.8	1317.3	1297.5	1288.6
1424.1	22.5°	1480.4	1520.0	1511.1	1453.3	1405.4	1347.0	1294.9	1267.3	1257.4	1251.1
1477.8	25°	1534.1	1567.9	1521.6	1433.5	1360.0	1281.3	1241.2	1232.4	1227.7	1223.0
1543.4	27.5°	1603.9	1622.1	1529.4	1404.3	1289.2	1211.5	1196.9	1198.5	1196.9	1189.1
1634.6	30°	1696.1	1692.5	1536.7	1356.9	1207.9	1148.5	1149.5	1156.3	1157.3	1152.1
1761.8	32.5°	1817.5	1780.5	1540.3	1295.4	1130.2	1093.2	1094.3	1101.6	1106.8	1097.9
1928.0	35°	1964.5	1883.2	1534.6	1218.3	1070.3	1040.6	1032.8	1034.9	1036.4	1028.1
2129.7	37.5°	2135.9	1998.3	1509.0	1132.8	1020.8	989.0	972.3	958.3	949.9	942.1
2357.9	40°	2324.0	2123.9	1462.2	1049.5	965.6	934.3	909.3	882.7	854.6	844.1
2599.7	42.5°	2521.0	2253.1	1405.4	969.7	902.0	876.5	849.9	811.3	769.1	747.7
2850.8	45°	2725.2	2385.5	1349.6	891.0	836.9	825.9	795.2	748.8	702.9	675.8
3102.5	47.5°	2925.3	2510.6	1267.8	811.8	775.9	787.9	763.9	721.2	670.1	627.4
3352.1	50°	3116.6	2627.8	1133.9	731.6	726.4	776.4	753.5	692.0	633.6	578.9
3597.0	52.5°	3306.3	2722.6	962.4	658.6	699.8	773.3	739.9	672.2	600.8	543.5
3827.3	55°	3467.3	2771.6	797.3	596.1	661.3	746.7	723.8	648.7	554.4	493.5
3985.2	57.5°	3559.0	2732.0	659.7	534.6	608.1	702.9	696.2	598.7	499.2	452.3
4016.0	60°	3519.4	2571.5	547.1	481.0	557.6	655.5	648.2	549.2	457.0	412.7
3851.3	62.5°	3301.0	2265.7	458.0	434.1	511.7	607.1	600.3	511.2	424.7	382.0
3414.1	65°	2861.2	1843.1	388.7	395.0	465.3	548.7	558.6	479.4	399.1	357.5
2641.4	67.5°	2182.3	1335.0	334.5	361.1	420.0	491.4	520.0	456.5	377.8	338.2
1528.3	70°	1243.8	758.2	288.7	328.3	379.9	438.2	490.3	438.2	354.9	322.0
572.7	72.5°	471.6	348.1	249.6	295.5	341.3	393.4	457.5	409.6	328.3	303.8
296.0	75°	251.7	212.1	210.0	256.9	297.0	349.6	416.3	381.4	308.5	321.0
204.8	77.5°	171.4	150.1	175.6	219.9	248.6	301.2	372.6	338.7	267.3	266.3
141.7	80°	118.8	106.3	142.8	177.2	192.3	253.2	325.2	290.8	217.8	203.2
87.5	82.5°	71.4	69.3	106.8	132.4	136.0	195.4	269.4	243.9	178.2	155.3
52.1	85°	39.1	41.2	68.3	77.6	79.2	136.5	211.0	188.6	137.0	115.2
18.8	87.5°	10.9	14.1	25.0	30.7	38.0	70.9	125.6	112.0	68.8	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>
1284.5
1378.8
1438.7
1455.9
1446.5
1424.6
1394.4
1343.3
1287.6
1252.2
1223.0
1190.7
1154.7
1102.1
1033.8
947.3
848.8
750.4
673.8
622.7
574.2
537.2
488.3
446.0
406.4
375.2
350.7
331.9
317.9
299.6
331.4
245.4
194.4
156.3
116.2
47.9
0.0

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