

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: P939299

Luminaire Tested: **GALN-SB1D-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939299  
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-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

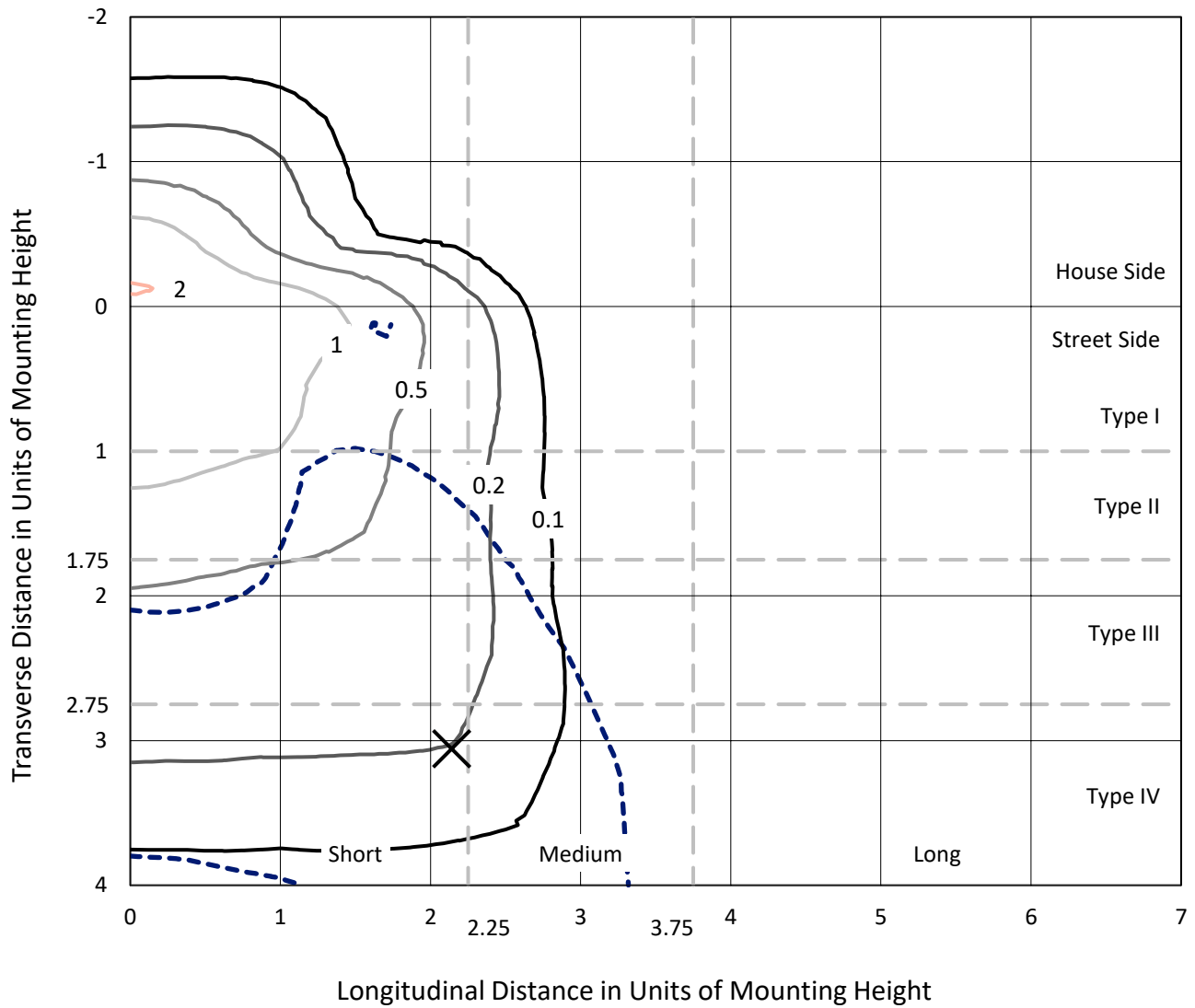
Lumens per Lamp: N/A  
Luminaire Lumens: 8749 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

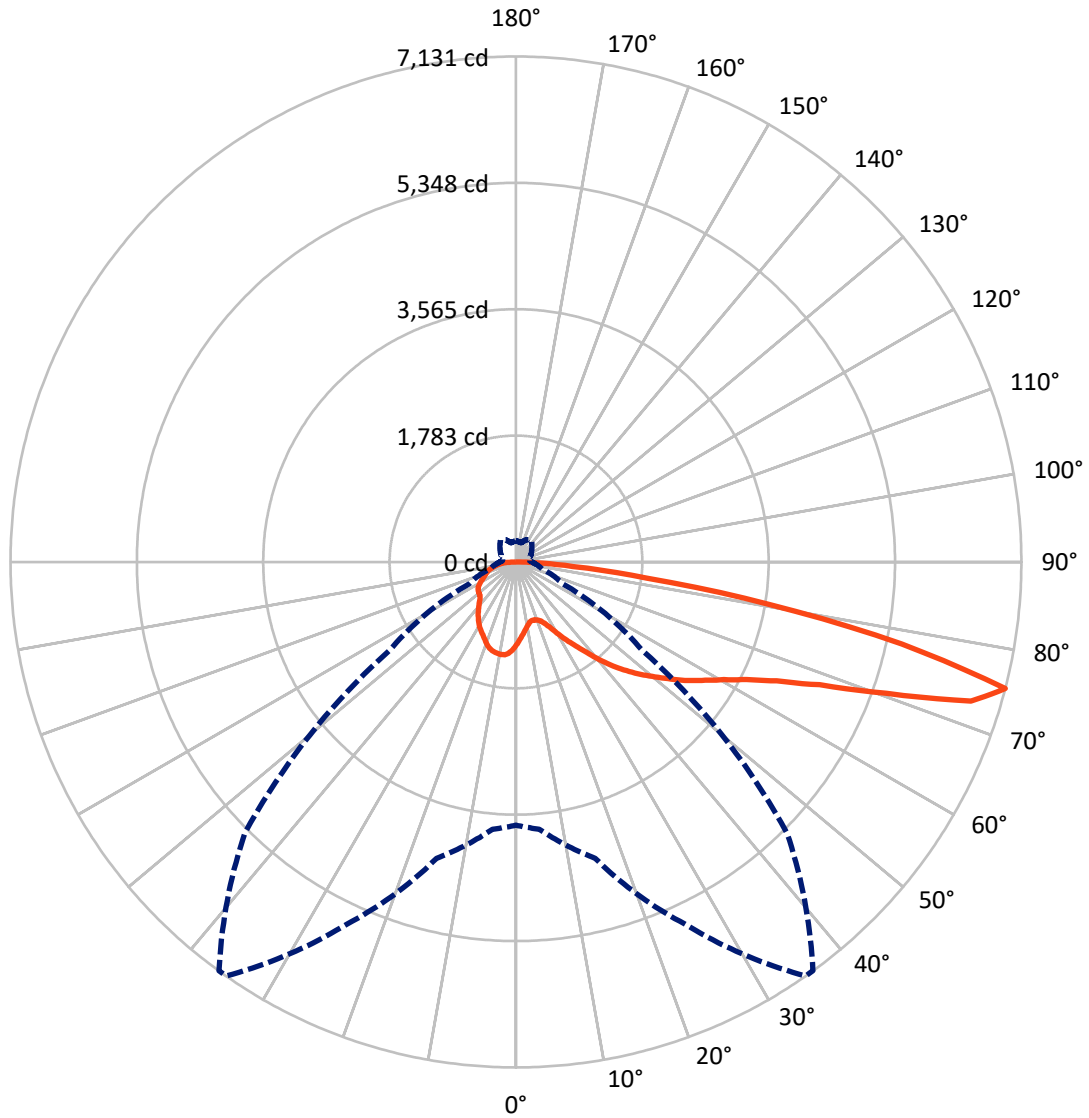
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	2082.0	0.0	2082.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	6667.0	0.0	6667.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	8749.0	0.0	8749.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	1.3
10°-20°	318.4	3.6
20°-30°	534.7	6.1
30°-40°	831.0	9.5
40°-50°	1233.3	14.1
50°-60°	1702.7	19.5
60°-70°	2065.8	23.6
70°-80°	1707.2	19.5
80°-90°	245.5	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°	8749.0	100.0
0°-180°	8749.0	100.0

**Coefficient of Utilization**



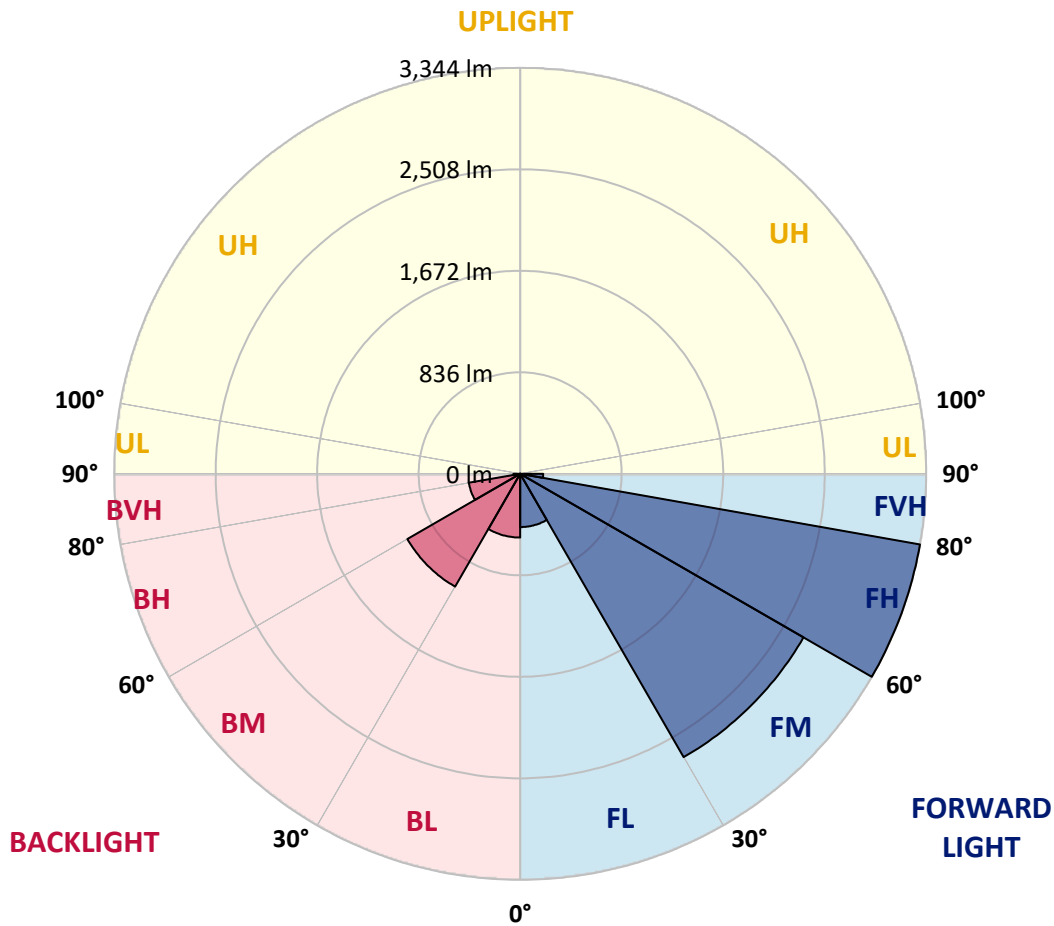
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.7	5.0			
FM (30°-60°)	2694.2	30.8			
FH (60°-80°)	3343.7	38.2			G2/5000
FVH (80°-90°)	190.3	2.2			G2/225
BL (0°-30°)	524.7	6.0	B2/1000		
BM (30°-60°)	1072.8	12.3	B2/2500		
BH (60°-80°)	429.3	4.9	B1/500		G1/500
BVH (80°-90°)	55.3	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°	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9
2.5°	1075.1	1081.7	1084.5	1083.1	1090.2	1089.2	1099.2	1111.5	1128.5	1145.1
5°	992.3	999.4	1005.5	1011.2	1024.9	1029.2	1044.8	1068.4	1099.6	1131.3
7.5°	915.2	921.3	930.8	941.2	964.4	968.6	994.6	1031.5	1075.1	1121.4
10°	852.3	858.4	868.4	880.2	909.0	914.2	947.4	996.5	1053.3	1111.9
12.5°	825.3	827.2	832.9	844.7	869.8	873.1	909.5	965.8	1032.0	1104.9
15°	823.9	827.7	828.2	834.3	855.1	856.5	890.1	945.9	1018.8	1103.4
17.5°	838.1	840.9	836.7	840.5	858.0	860.3	886.8	936.5	1014.5	1109.6
20°	875.9	878.3	865.5	860.3	873.1	875.0	901.0	942.6	1018.8	1122.4
22.5°	956.3	957.8	926.5	905.3	906.2	907.2	929.9	967.7	1035.3	1145.5
25°	1081.7	1080.7	1031.1	989.9	966.3	961.1	976.2	1008.4	1063.2	1176.3
27.5°	1228.3	1221.2	1171.5	1110.1	1058.5	1050.9	1047.6	1061.3	1103.0	1216.9
30°	1393.8	1387.2	1333.8	1253.4	1181.9	1169.6	1138.4	1131.3	1162.1	1272.3
32.5°	1575.5	1571.2	1507.3	1409.9	1314.4	1300.2	1247.7	1228.8	1252.9	1356.0
35°	1727.7	1724.0	1671.0	1570.7	1453.9	1436.4	1383.0	1361.7	1374.0	1463.4
37.5°	1865.4	1863.5	1818.1	1739.1	1618.5	1597.2	1537.1	1530.0	1527.7	1604.8
40°	1993.1	1988.4	1941.1	1899.4	1810.0	1790.7	1737.7	1731.5	1713.6	1778.8
42.5°	2134.5	2122.2	2053.6	2034.2	2010.1	1994.0	1962.3	1963.3	1923.6	1975.1
45°	2249.9	2242.8	2172.3	2161.0	2187.0	2180.4	2207.8	2214.9	2137.8	2180.9
47.5°	2373.8	2367.2	2307.6	2299.6	2370.0	2371.9	2468.9	2471.3	2346.9	2394.6
50°	2526.6	2517.1	2458.0	2467.9	2546.9	2554.0	2731.4	2715.3	2539.4	2611.7
52.5°	2627.3	2633.0	2620.2	2636.3	2744.2	2750.8	2989.6	2948.5	2730.0	2826.0
55°	2701.6	2712.9	2752.7	2789.6	2952.3	2958.9	3233.2	3170.3	2887.9	3024.6
57.5°	2797.1	2781.0	2855.3	2927.2	3150.0	3167.5	3470.2	3384.1	3027.9	3195.8
60°	2934.3	2922.9	2980.6	3087.1	3371.3	3399.2	3720.8	3576.6	3130.6	3331.6
62.5°	3212.4	3184.0	3193.0	3287.1	3650.4	3687.3	4003.7	3744.5	3181.6	3384.6
65°	3628.1	3579.4	3534.0	3599.3	4043.4	4079.8	4322.9	3876.4	3162.7	3281.9
67.5°	4151.7	4103.5	4047.7	4109.1	4622.3	4651.2	4716.9	3950.7	3013.7	2886.5
70°	4583.5	4565.5	4632.2	4885.3	5547.0	5547.9	5222.0	3889.2	2605.6	2046.5
72.5°	4526.3	4515.4	4866.8	5649.1	6712.3	6687.3	5700.2	3423.8	1755.2	923.2
75°	3713.3	3783.7	4328.1	5635.4	7130.9	7127.6	5407.4	2176.6	726.0	382.6
77.5°	1991.2	2102.8	2809.9	4160.7	5566.8	5650.5	3801.7	761.5	311.7	245.0
80°	649.4	746.8	1120.0	2118.4	3617.3	3601.6	1629.4	298.9	213.3	173.6
82.5°	275.7	287.1	500.4	1000.3	1856.4	1827.5	518.8	171.7	149.9	118.7
85°	107.8	120.6	220.9	462.6	804.0	786.5	187.3	85.1	96.0	77.6
87.5°	35.5	43.0	79.0	158.4	250.2	241.2	45.9	29.3	41.6	35.5
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°
1165.9	0°	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9	1165.9
1169.2	2.5°	1175.8	1183.4	1192.3	1205.6	1216.9	1226.4	1236.3	1242.5	1244.8	1251.9
1171.1	5°	1184.3	1200.9	1223.1	1244.8	1266.1	1278.9	1290.3	1295.9	1301.1	1304.9
1176.3	7.5°	1198.5	1219.8	1254.8	1283.2	1301.1	1311.5	1319.1	1317.2	1319.1	1320.1
1181.9	10°	1210.8	1240.6	1282.2	1309.2	1322.9	1323.4	1321.5	1314.8	1311.5	1312.0
1190.5	12.5°	1225.5	1258.6	1303.5	1326.2	1330.0	1319.6	1311.5	1300.2	1295.9	1294.0
1203.2	15°	1245.3	1283.2	1326.7	1335.2	1325.7	1312.5	1298.8	1280.3	1270.9	1263.3
1225.0	17.5°	1269.4	1311.1	1344.6	1338.5	1318.2	1296.4	1274.2	1246.3	1226.9	1218.8
1254.8	20°	1303.0	1340.4	1358.4	1331.4	1300.7	1267.6	1229.7	1195.7	1177.7	1169.6
1292.6	22.5°	1343.7	1379.6	1371.6	1319.1	1275.6	1222.6	1175.3	1150.3	1141.3	1135.6
1341.3	25°	1392.4	1423.2	1381.1	1301.1	1234.4	1163.0	1126.6	1118.6	1114.3	1110.1
1400.9	27.5°	1455.8	1472.3	1388.2	1274.6	1170.1	1099.6	1086.4	1087.8	1086.4	1079.3
1483.7	30°	1539.5	1536.2	1394.8	1231.6	1096.3	1042.4	1043.4	1049.5	1050.5	1045.7
1599.1	32.5°	1649.7	1616.1	1398.1	1175.8	1025.9	992.3	993.2	999.9	1004.6	996.5
1750.0	35°	1783.1	1709.3	1392.9	1105.8	971.5	944.5	937.4	939.3	940.7	933.2
1933.0	37.5°	1938.7	1813.8	1369.7	1028.2	926.5	897.7	882.6	869.8	862.2	855.1
2140.2	40°	2109.4	1927.8	1327.1	952.6	876.4	848.0	825.3	801.2	775.7	766.2
2359.6	42.5°	2288.2	2045.1	1275.6	880.2	818.7	795.5	771.4	736.4	698.1	678.7
2587.6	45°	2473.6	2165.2	1225.0	808.8	759.6	749.7	721.7	679.7	638.0	613.4
2816.0	47.5°	2655.2	2278.8	1150.7	736.9	704.2	715.1	693.4	654.6	608.2	569.5
3042.6	50°	2828.8	2385.2	1029.2	664.0	659.3	704.7	683.9	628.1	575.1	525.5
3264.9	52.5°	3001.0	2471.3	873.6	597.8	635.2	701.9	671.6	610.1	545.3	493.3
3473.9	55°	3147.1	2515.7	723.6	541.1	600.2	677.8	657.0	588.8	503.2	447.9
3617.3	57.5°	3230.4	2479.8	598.8	485.3	552.0	638.0	631.9	543.4	453.1	410.5
3645.2	60°	3194.4	2334.1	496.6	436.5	506.1	595.0	588.4	498.5	414.8	374.6
3495.7	62.5°	2996.2	2056.5	415.7	394.0	464.5	551.0	544.9	464.0	385.5	346.7
3098.9	65°	2597.1	1672.9	352.8	358.5	422.4	498.0	507.0	435.1	362.3	324.5
2397.5	67.5°	1980.8	1211.7	303.6	327.8	381.2	446.0	472.0	414.3	342.9	307.0
1387.2	70°	1129.0	688.2	262.0	298.0	344.8	397.8	445.1	397.8	322.1	292.3
519.8	72.5°	428.0	315.9	226.6	268.2	309.8	357.1	415.3	371.8	298.0	275.7
268.6	75°	228.4	192.5	190.6	233.2	269.6	317.4	377.9	346.2	280.0	291.3
185.9	77.5°	155.6	136.2	159.4	199.6	225.6	273.4	338.2	307.4	242.6	241.7
128.6	80°	107.8	96.5	129.6	160.8	174.5	229.9	295.1	263.9	197.7	184.5
79.5	82.5°	64.8	62.9	97.0	120.1	123.4	177.4	244.5	221.3	161.8	140.9
47.3	85°	35.5	37.4	62.0	70.5	71.9	123.9	191.6	171.2	124.4	104.5
17.0	87.5°	9.9	12.8	22.7	27.9	34.5	64.3	114.0	101.7	62.4	43.5
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>
1165.9
1251.5
1305.9
1321.5
1313.0
1293.1
1265.7
1219.3
1168.7
1136.5
1110.1
1080.7
1048.1
1000.3
938.4
859.9
770.5
681.1
611.5
565.2
521.2
487.6
443.2
404.9
368.9
340.5
318.3
301.3
288.5
272.0
300.8
222.8
176.4
141.9
105.5
43.5
0.0

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