

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: P939639

Luminaire Tested: **GALN-SB2B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939639
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-SB2B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9678 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

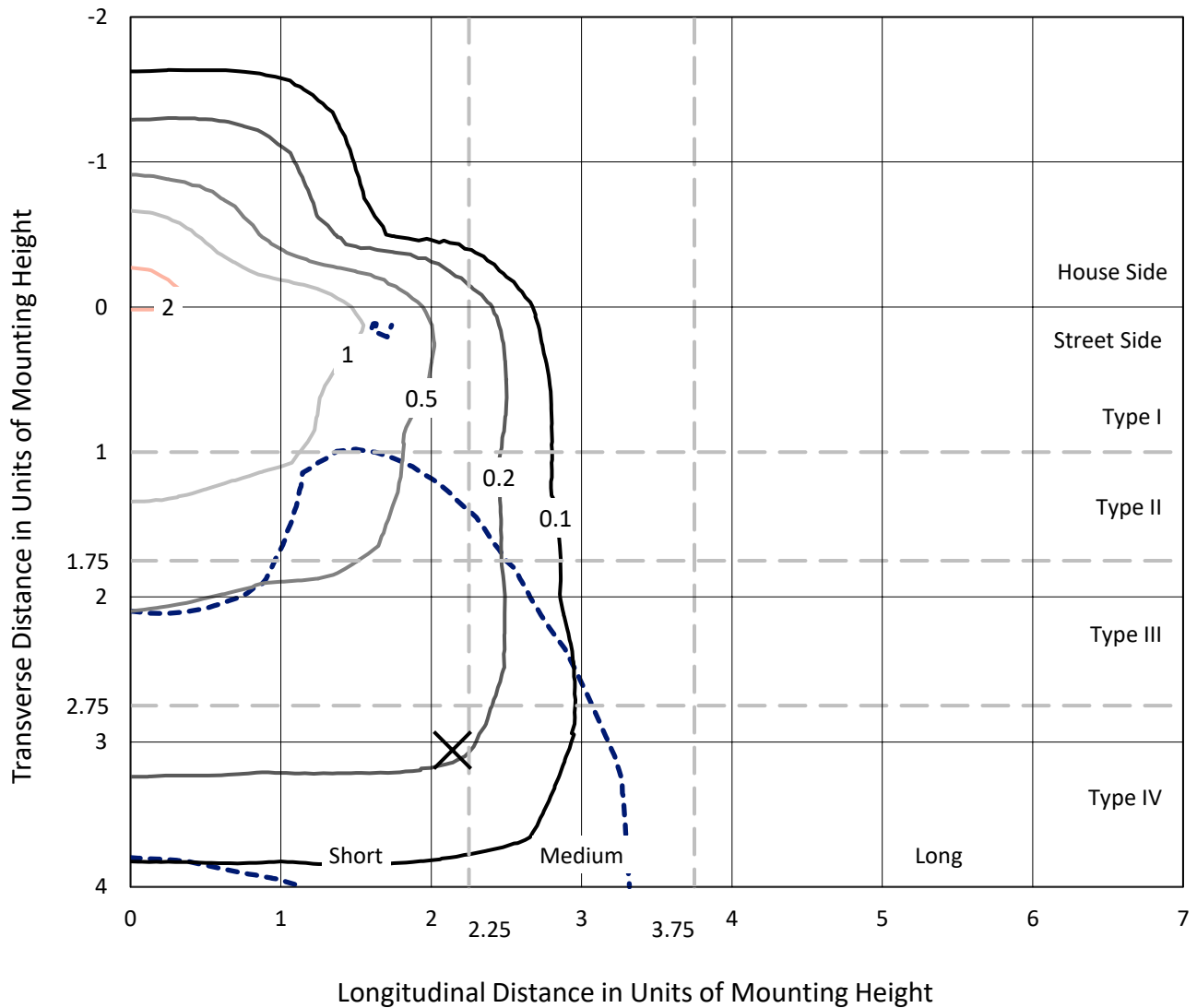
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

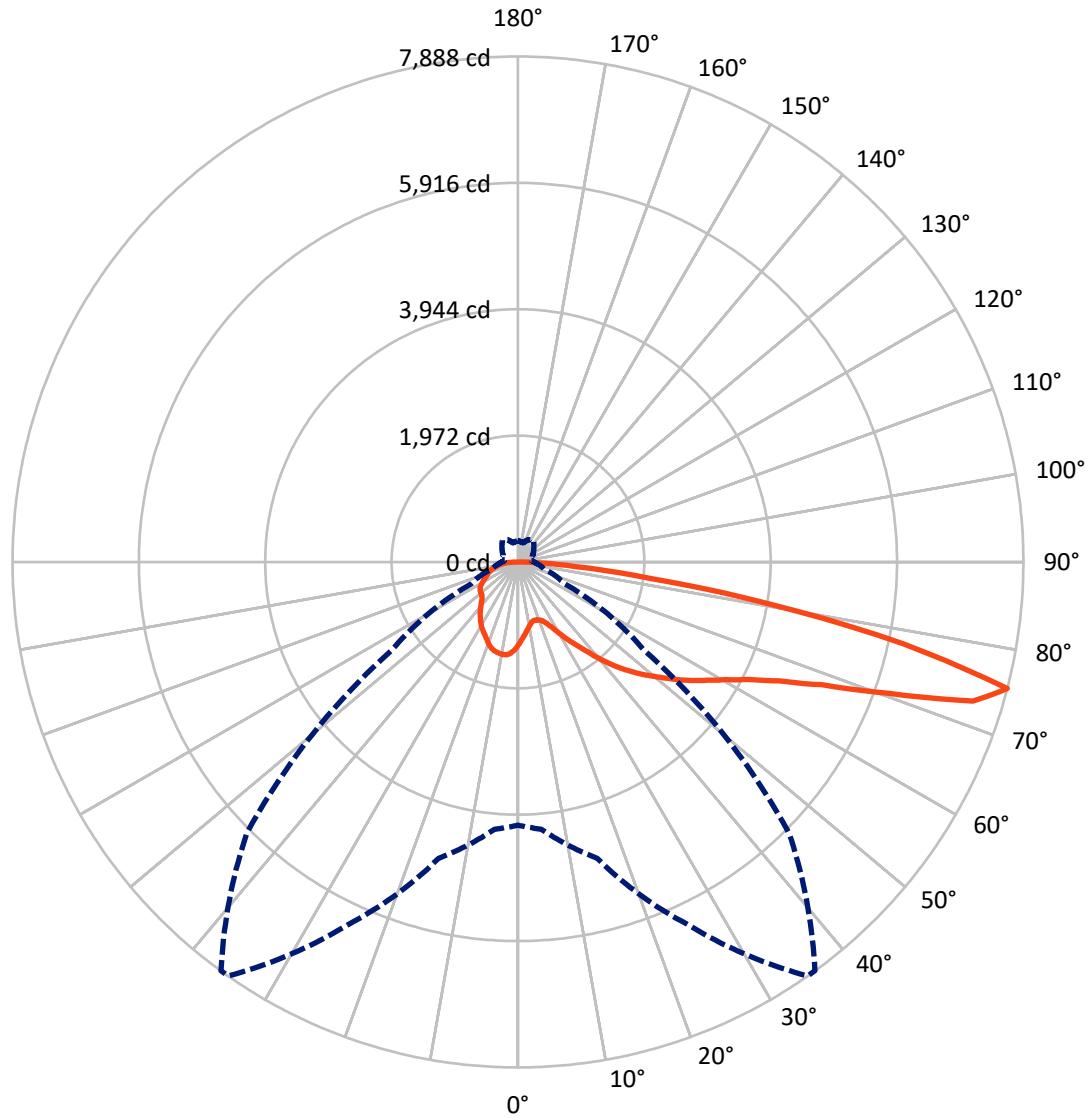
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2303.1	0.0	2303.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7374.9	0.0	7374.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	9678.0	0.0	9678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	1.3
10°-20°	352.2	3.6
20°-30°	591.4	6.1
30°-40°	919.2	9.5
40°-50°	1364.3	14.1
50°-60°	1883.5	19.5
60°-70°	2285.1	23.6
70°-80°	1888.5	19.5
80°-90°	271.6	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°	9678.0	100.0
0°-180°	9678.0	100.0

Coefficient of Utilization



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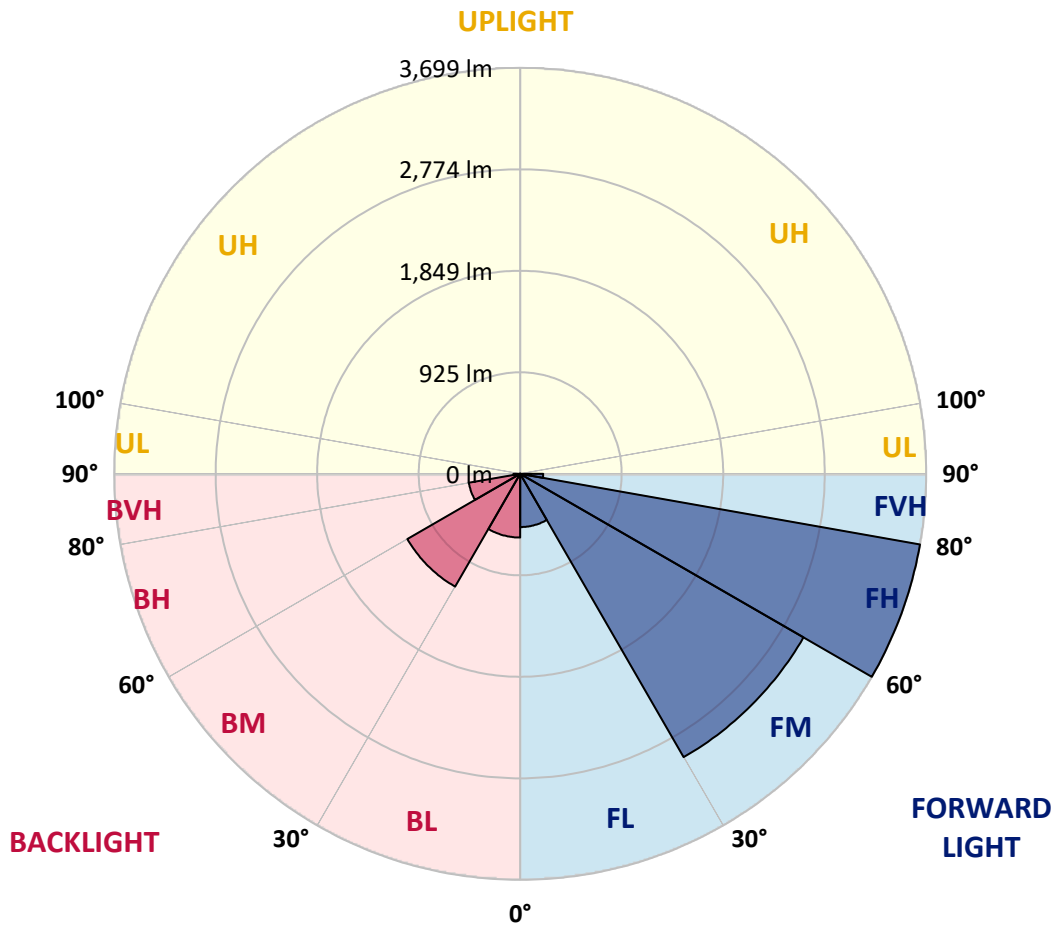
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.3	5.0			
FM (30°-60°)	2980.3	30.8			
FH (60°-80°)	3698.8	38.2			G2/5000
FVH (80°-90°)	210.5	2.2			G2/225
BL (0°-30°)	580.4	6.0	B2/1000		
BM (30°-60°)	1186.7	12.3	B2/2500		
BH (60°-80°)	474.8	4.9	B1/500		G1/500
BVH (80°-90°)	61.2	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°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1189.2	1196.5	1199.7	1198.1	1205.9	1204.9	1215.9	1229.5	1248.3	1266.6
5°	1097.6	1105.5	1112.3	1118.6	1133.7	1138.5	1155.7	1181.9	1216.4	1251.5
7.5°	1012.4	1019.2	1029.6	1041.1	1066.8	1071.5	1100.3	1141.1	1189.2	1240.5
10°	942.8	949.6	960.6	973.7	1005.6	1011.3	1047.9	1102.4	1165.1	1230.0
12.5°	913.0	915.1	921.3	934.4	962.1	965.8	1006.1	1068.4	1141.6	1222.2
15°	911.4	915.6	916.1	922.9	945.9	947.5	984.6	1046.4	1126.9	1220.6
17.5°	927.1	930.2	925.5	929.7	949.1	951.7	981.0	1035.9	1122.2	1227.4
20°	968.9	971.6	957.4	951.7	965.8	967.9	996.7	1042.7	1126.9	1241.5
22.5°	1057.9	1059.5	1024.9	1001.4	1002.4	1003.5	1028.6	1070.4	1145.3	1267.2
25°	1196.5	1195.5	1140.6	1095.0	1068.9	1063.1	1079.9	1115.4	1176.1	1301.2
27.5°	1358.7	1350.9	1295.9	1227.9	1170.9	1162.5	1158.9	1174.0	1220.1	1346.2
30°	1541.8	1534.5	1475.4	1386.4	1307.4	1293.8	1259.3	1251.5	1285.5	1407.4
32.5°	1742.7	1738.0	1667.4	1559.6	1453.9	1438.2	1380.2	1359.2	1385.9	1500.0
35°	1911.2	1907.0	1848.4	1737.5	1608.3	1588.9	1529.8	1506.3	1519.9	1618.7
37.5°	2063.5	2061.4	2011.1	1923.8	1790.4	1766.8	1700.4	1692.5	1689.9	1775.2
40°	2204.7	2199.5	2147.2	2101.1	2002.2	1980.8	1922.2	1915.4	1895.5	1967.7
42.5°	2361.1	2347.5	2271.7	2250.2	2223.5	2205.8	2170.7	2171.8	2127.8	2184.8
45°	2488.8	2481.0	2403.0	2390.4	2419.2	2411.9	2442.2	2450.1	2364.8	2412.4
47.5°	2625.9	2618.6	2552.6	2543.7	2621.7	2623.8	2731.0	2733.7	2596.1	2648.9
50°	2794.9	2784.4	2719.0	2730.0	2817.4	2825.2	3021.4	3003.6	2809.0	2889.0
52.5°	2906.3	2912.6	2898.5	2916.3	3035.5	3042.9	3307.1	3261.6	3019.8	3126.0
55°	2988.5	3001.0	3045.0	3085.8	3265.7	3273.1	3576.5	3506.9	3194.6	3345.8
57.5°	3094.1	3076.3	3158.5	3238.0	3484.4	3503.8	3838.6	3743.4	3349.5	3535.2
60°	3245.9	3233.3	3297.1	3414.8	3729.3	3760.2	4115.9	3956.3	3463.0	3685.3
62.5°	3553.5	3522.1	3532.0	3636.2	4038.0	4078.8	4428.8	4142.1	3519.5	3743.9
65°	4013.4	3959.5	3909.3	3981.5	4472.7	4513.0	4781.9	4288.1	3498.6	3630.4
67.5°	4592.5	4539.2	4477.4	4545.5	5113.1	5145.0	5217.8	4370.2	3333.8	3193.0
70°	5070.2	5050.3	5124.1	5404.0	6136.0	6137.0	5776.5	4302.2	2882.2	2263.8
72.5°	5006.9	4994.9	5383.6	6249.0	7425.1	7397.4	6305.5	3787.4	1941.6	1021.3
75°	4107.6	4185.5	4787.7	6233.8	7888.1	7884.4	5981.6	2407.7	803.1	423.3
77.5°	2202.6	2326.1	3108.3	4602.5	6157.9	6250.5	4205.4	842.3	344.8	271.0
80°	718.3	826.1	1238.9	2343.4	4001.3	3984.1	1802.4	330.7	236.0	192.0
82.5°	305.0	317.6	553.5	1106.5	2053.5	2021.6	573.9	189.9	165.9	131.3
85°	119.3	133.4	244.3	511.7	889.4	870.1	207.2	94.2	106.2	85.8
87.5°	39.2	47.6	87.4	175.3	276.8	266.8	50.7	32.4	46.0	39.2
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°
1289.7	0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
1293.3	2.5°	1300.6	1309.0	1319.0	1333.6	1346.2	1356.6	1367.6	1374.4	1377.0	1384.9
1295.4	5°	1310.1	1328.4	1353.0	1377.0	1400.6	1414.7	1427.3	1433.5	1439.3	1443.5
1301.2	7.5°	1325.8	1349.3	1388.0	1419.4	1439.3	1450.8	1459.2	1457.1	1459.2	1460.2
1307.4	10°	1339.4	1372.3	1418.4	1448.2	1463.4	1463.9	1461.8	1454.5	1450.8	1451.3
1316.9	12.5°	1355.6	1392.2	1441.9	1467.0	1471.2	1459.7	1450.8	1438.2	1433.5	1431.4
1331.0	15°	1377.6	1419.4	1467.5	1477.0	1466.5	1451.8	1436.7	1416.3	1405.8	1397.4
1355.1	17.5°	1404.2	1450.3	1487.4	1480.6	1458.1	1434.1	1409.5	1378.6	1357.2	1348.3
1388.0	20°	1441.4	1482.7	1502.6	1472.8	1438.8	1402.1	1360.3	1322.6	1302.7	1293.8
1429.9	22.5°	1486.4	1526.1	1517.2	1459.2	1411.0	1352.4	1300.1	1272.4	1262.5	1256.2
1483.8	25°	1540.3	1574.3	1527.7	1439.3	1365.5	1286.5	1246.2	1237.3	1232.6	1227.9
1549.7	27.5°	1610.4	1628.7	1535.6	1410.0	1294.4	1216.4	1201.8	1203.3	1201.8	1193.9
1641.2	30°	1703.0	1699.3	1542.9	1362.4	1212.8	1153.1	1154.2	1161.0	1162.0	1156.8
1768.9	32.5°	1824.9	1787.7	1546.5	1300.6	1134.8	1097.6	1098.7	1106.0	1111.3	1102.4
1935.8	35°	1972.4	1890.8	1540.8	1223.2	1074.6	1044.8	1037.0	1039.1	1040.6	1032.3
2138.3	37.5°	2144.5	2006.4	1515.2	1137.4	1024.9	993.0	976.3	962.1	953.8	945.9
2367.4	40°	2333.4	2132.5	1468.1	1053.7	969.5	938.1	913.0	886.3	858.0	847.6
2610.2	42.5°	2531.2	2262.3	1411.0	973.7	905.6	880.0	853.3	814.6	772.2	750.8
2862.4	45°	2736.3	2395.2	1355.1	894.7	840.2	829.3	798.4	751.8	705.8	678.6
3115.1	47.5°	2937.2	2520.7	1272.9	815.1	779.0	791.1	767.0	724.1	672.8	629.9
3365.7	50°	3129.2	2638.4	1138.5	734.6	729.3	779.6	756.5	694.8	636.2	581.3
3611.6	52.5°	3319.6	2733.7	966.3	661.3	702.6	776.4	742.9	674.9	603.2	545.7
3842.8	55°	3481.3	2782.8	800.5	598.5	663.9	749.7	726.7	651.4	556.7	495.5
4001.3	57.5°	3573.4	2743.1	662.4	536.8	610.6	705.8	699.0	601.1	501.2	454.1
4032.2	60°	3533.6	2581.9	549.3	482.9	559.8	658.2	650.8	551.4	458.8	414.4
3866.9	62.5°	3314.4	2274.8	459.9	435.8	513.8	609.5	602.7	513.2	426.4	383.5
3427.9	65°	2872.8	1850.5	390.3	396.6	467.2	550.9	560.9	481.3	400.8	358.9
2652.0	67.5°	2191.1	1340.4	335.9	362.6	421.7	493.4	522.1	458.3	379.3	339.5
1534.5	70°	1248.9	761.2	289.8	329.6	381.4	440.0	492.3	440.0	356.3	323.3
575.0	72.5°	473.5	349.5	250.6	296.6	342.7	395.0	459.4	411.2	329.6	305.0
297.2	75°	252.7	212.9	210.8	257.9	298.2	351.1	418.0	383.0	309.7	322.3
205.6	77.5°	172.1	150.7	176.3	220.8	249.6	302.4	374.1	340.1	268.4	267.3
142.3	80°	119.3	106.7	143.4	177.9	193.1	254.3	326.5	291.9	218.7	204.0
87.9	82.5°	71.7	69.6	107.3	132.9	136.6	196.2	270.5	244.9	178.9	155.9
52.3	85°	39.2	41.3	68.5	78.0	79.5	137.1	211.9	189.4	137.6	115.6
18.8	87.5°	11.0	14.1	25.1	30.9	38.2	71.2	126.1	112.5	69.1	48.1
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>
1289.7
1384.4
1444.5
1461.8
1452.4
1430.4
1400.1
1348.8
1292.8
1257.2
1227.9
1195.5
1159.4
1106.5
1038.0
951.2
852.3
753.4
676.5
625.2
576.6
539.4
490.2
447.8
408.1
376.7
352.1
333.3
319.1
300.8
332.7
246.4
195.1
157.0
116.7
48.1
0.0

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