

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: P946780

Luminaire Tested: **GALN-SB2B-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10053 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

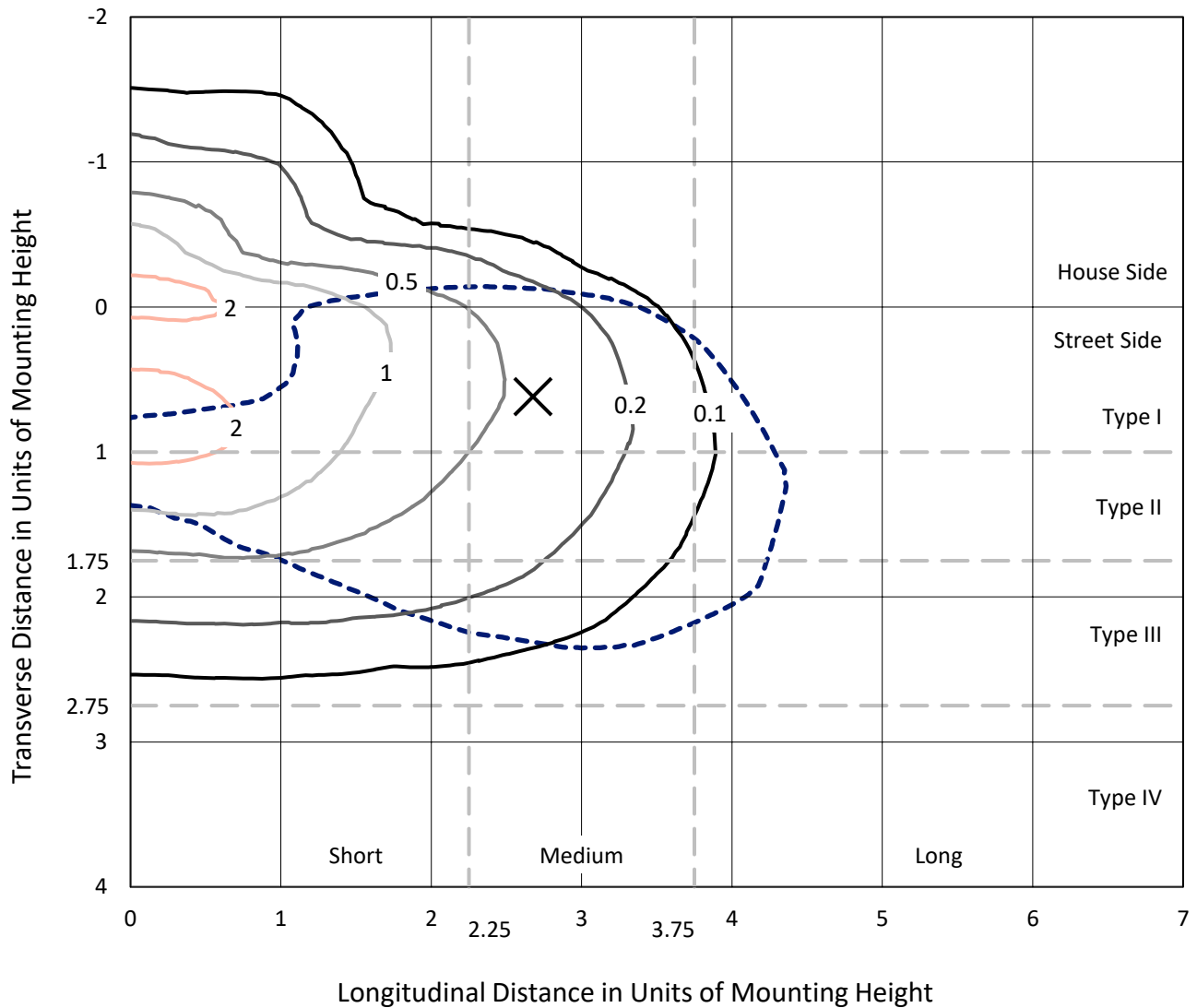
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

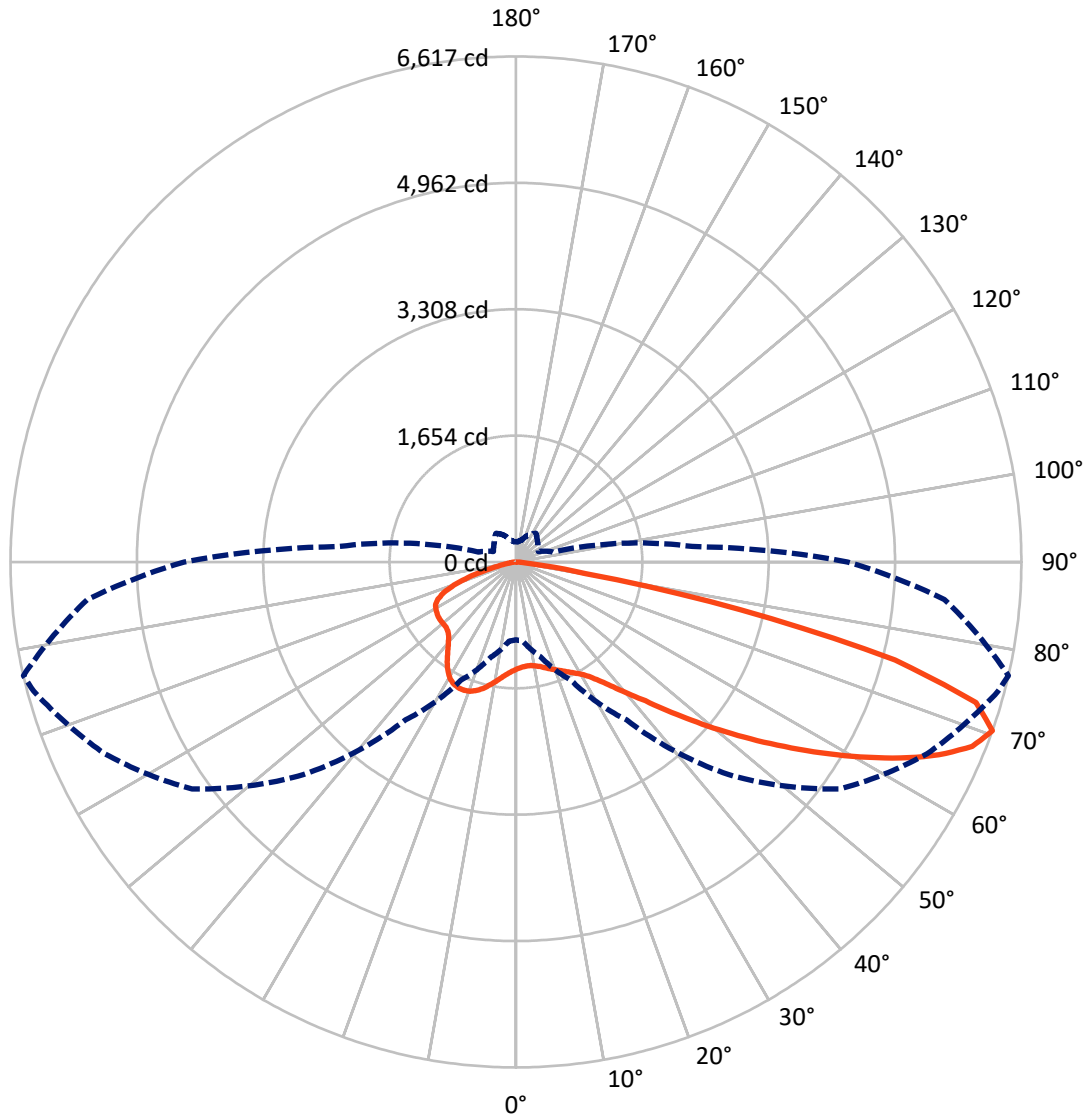
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2201.4	0.0	2201.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7851.5	0.0	7851.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	10053.0	0.0	10053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	1.3
10°-20°	386.0	3.8
20°-30°	660.2	6.6
30°-40°	1061.6	10.6
40°-50°	1657.5	16.5
50°-60°	2214.0	22.0
60°-70°	2359.8	23.5
70°-80°	1452.7	14.5
80°-90°	127.3	1.3
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°	10053.0	100.0
0°-180°	10053.0	100.0

Coefficient of Utilization



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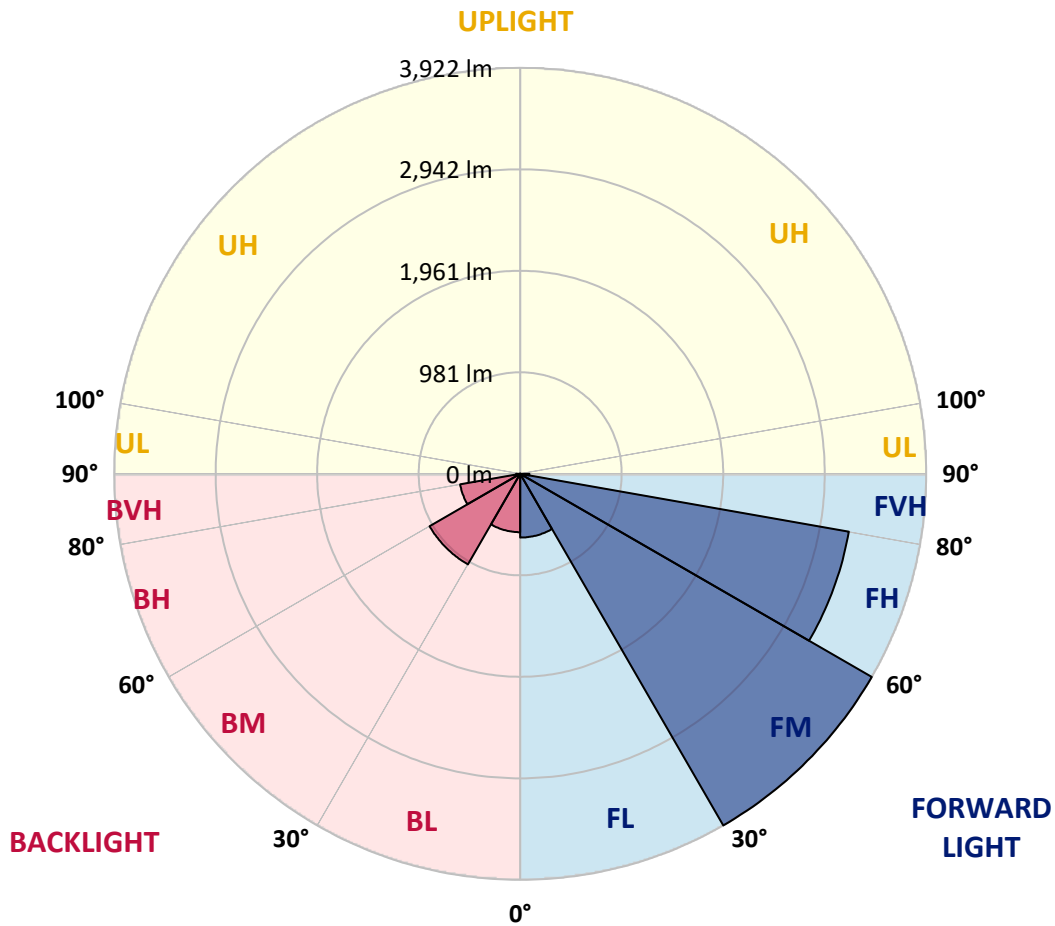
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.9	6.1			
FM (30°-60°)	3922.5	39.0			
FH (60°-80°)	3224.2	32.1			G2/5000
FVH (80°-90°)	89.0	0.9			G1/100
BL (0°-30°)	564.1	5.6	B2/1000		
BM (30°-60°)	1010.7	10.1	B2/2500		
BH (60°-80°)	588.3	5.9	B2/1000		G2/1000
BVH (80°-90°)	38.3	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5
2.5°	1292.8	1292.3	1299.0	1301.1	1313.4	1322.2	1338.6	1356.1	1378.8	1381.4
5°	1218.2	1218.2	1225.9	1234.1	1250.1	1267.6	1292.8	1323.2	1362.3	1368.5
7.5°	1154.8	1159.0	1165.6	1181.6	1200.1	1225.4	1264.0	1307.2	1358.7	1368.5
10°	1103.9	1108.5	1116.7	1129.6	1157.4	1192.4	1242.9	1298.5	1367.5	1382.9
12.5°	1087.9	1092.5	1097.2	1107.0	1132.7	1173.9	1234.1	1302.6	1388.6	1404.0
15°	1125.0	1130.6	1127.0	1124.5	1137.8	1175.4	1238.2	1317.5	1414.8	1437.0
17.5°	1210.4	1212.5	1204.3	1180.1	1178.0	1198.1	1257.8	1338.1	1447.8	1472.0
20°	1348.4	1344.8	1327.8	1279.9	1252.7	1248.5	1291.3	1369.0	1481.8	1507.5
22.5°	1535.8	1531.7	1497.7	1422.0	1361.3	1321.1	1339.7	1409.2	1519.9	1548.7
25°	1769.6	1763.9	1714.0	1611.0	1516.8	1417.4	1405.6	1462.2	1566.7	1593.5
27.5°	2042.5	2037.8	1983.8	1847.8	1711.9	1549.2	1487.4	1524.5	1615.6	1646.0
30°	2335.9	2349.3	2253.6	2107.3	1935.4	1721.2	1597.6	1601.2	1679.0	1706.3
32.5°	2680.9	2704.1	2588.7	2403.4	2168.6	1908.1	1736.6	1708.3	1771.1	1793.8
35°	3022.8	3049.0	2953.3	2748.3	2478.0	2128.4	1881.8	1831.4	1893.7	1918.4
37.5°	3318.3	3353.3	3303.9	3125.7	2809.1	2394.1	2071.3	1976.0	2044.5	2075.4
40°	3551.5	3605.1	3601.5	3490.3	3199.4	2716.4	2311.7	2154.7	2231.9	2265.4
42.5°	3741.0	3787.3	3827.5	3821.8	3606.6	3082.5	2594.4	2386.9	2445.6	2484.2
45°	3871.8	3921.2	4007.7	4100.9	3998.4	3474.3	2918.2	2662.4	2715.9	2774.1
47.5°	3988.6	4044.8	4157.0	4304.8	4331.0	3867.6	3273.0	2983.1	3032.0	3092.3
50°	3998.9	4047.3	4221.4	4430.9	4567.3	4245.6	3654.0	3343.0	3388.8	3453.2
52.5°	3750.3	3826.5	4130.2	4427.3	4676.0	4561.7	4032.4	3717.3	3768.8	3846.0
55°	2911.0	3022.8	3863.0	4289.3	4637.4	4766.1	4392.3	4115.3	4181.2	4262.0
57.5°	2507.4	2556.3	3066.5	4038.1	4461.3	4819.1	4696.1	4517.4	4623.5	4712.0
60°	2253.6	2294.2	2595.9	3647.3	4229.6	4735.2	4930.8	4892.2	5075.5	5181.1
62.5°	1981.7	2020.3	2294.7	3045.4	3933.0	4595.7	5079.1	5238.2	5538.9	5654.2
65°	1711.9	1744.9	2008.0	2558.9	3556.2	4456.1	5155.8	5537.3	5967.8	6087.2
67.5°	1411.2	1438.5	1687.2	2158.8	3097.9	4265.1	5193.9	5772.6	6341.0	6443.5
70°	1018.4	1039.5	1296.4	1707.3	2522.8	3936.6	5178.5	5939.5	6534.6	6616.5
72.5°	481.4	500.4	802.2	1108.5	1781.9	3297.2	4866.0	5807.1	6338.0	6297.3
75°	256.9	273.4	460.8	608.1	941.2	2260.2	3981.9	5002.4	5322.1	5124.4
77.5°	174.0	186.9	285.2	365.0	429.9	1073.0	2559.4	3463.5	3332.2	3005.8
80°	138.0	151.4	233.7	247.1	208.0	387.7	1057.5	1603.3	1151.7	921.1
82.5°	106.1	121.0	196.7	179.2	113.3	159.1	307.9	507.1	295.0	224.5
85°	64.9	80.8	154.5	114.3	63.8	72.6	104.5	141.1	90.1	75.2
87.5°	33.0	46.3	78.3	41.7	28.8	17.0	27.8	27.8	23.7	20.6
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°
1402.5	0°	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5
1395.3	2.5°	1407.6	1417.9	1435.4	1451.9	1464.8	1477.1	1489.5	1496.2	1498.2	1506.5
1403.0	5°	1424.1	1443.2	1477.1	1509.1	1529.1	1541.5	1550.3	1555.4	1556.4	1559.0
1424.1	7.5°	1454.5	1484.9	1532.2	1564.2	1579.1	1578.1	1574.4	1561.6	1556.4	1551.8
1455.0	10°	1497.2	1537.4	1595.6	1617.7	1608.4	1583.7	1551.8	1514.2	1496.7	1479.7
1497.2	12.5°	1550.3	1601.2	1658.4	1657.3	1611.5	1548.2	1474.1	1416.4	1379.8	1353.6
1549.2	15°	1614.6	1673.3	1717.1	1682.1	1581.7	1467.9	1359.2	1284.1	1251.1	1222.3
1601.7	17.5°	1681.0	1743.8	1763.9	1674.3	1506.5	1348.9	1225.9	1166.7	1134.2	1118.8
1658.4	20°	1745.9	1808.2	1791.7	1630.1	1392.2	1214.0	1104.4	1071.9	1065.3	1068.9
1713.5	22.5°	1814.4	1870.0	1797.4	1544.6	1246.5	1076.1	1015.8	1016.9	1031.8	1042.6
1771.1	25°	1884.4	1922.0	1782.5	1421.0	1090.0	974.6	959.7	976.2	1005.5	1026.6
1836.0	27.5°	1951.8	1968.3	1750.0	1268.1	955.6	902.0	904.6	938.6	982.9	1012.2
1914.8	30°	2028.0	2009.5	1687.7	1096.1	862.4	839.7	861.4	901.0	945.3	971.5
2014.1	32.5°	2114.0	2045.0	1588.9	937.0	796.5	789.8	825.3	851.1	870.6	878.4
2145.9	35°	2221.1	2095.0	1462.2	825.3	737.3	753.2	787.2	774.4	766.6	762.5
2323.1	37.5°	2360.1	2162.4	1313.9	752.7	689.4	727.0	740.9	700.7	670.4	655.4
2537.8	40°	2527.5	2261.3	1171.3	696.6	659.0	704.3	680.1	631.7	593.1	572.0
2779.2	42.5°	2713.3	2364.8	1051.3	654.4	642.0	685.8	635.3	577.7	515.4	508.7
3067.0	45°	2908.5	2471.3	969.5	622.0	633.8	669.8	609.6	516.4	472.1	499.4
3355.9	47.5°	3103.6	2569.2	920.1	597.8	629.7	651.8	586.9	482.4	451.0	490.7
3665.3	50°	3320.9	2656.7	897.9	580.2	625.0	644.6	553.0	473.7	428.9	455.1
3985.5	52.5°	3536.6	2724.7	881.4	562.7	618.3	638.9	536.5	463.4	402.1	403.7
4307.9	55°	3751.8	2768.9	863.4	539.6	603.4	626.6	534.9	452.0	382.0	374.8
4648.7	57.5°	3981.4	2794.2	841.3	513.8	577.7	595.2	533.4	443.3	375.8	364.0
4997.3	60°	4215.2	2831.2	812.5	482.4	543.2	557.6	529.8	440.2	372.2	352.2
5325.7	62.5°	4424.7	2844.1	778.0	452.6	498.9	520.5	522.1	437.6	362.5	328.0
5598.6	65°	4562.2	2788.5	717.7	418.6	451.0	482.4	507.1	428.9	345.0	310.5
5733.5	67.5°	4556.5	2629.9	623.5	374.8	404.7	440.2	485.5	413.9	323.8	288.8
5631.6	70°	4344.4	2316.9	504.1	323.8	353.7	394.9	457.7	391.8	298.6	265.2
5007.6	72.5°	3726.1	1813.3	366.1	264.1	294.5	348.0	421.7	365.0	272.9	244.0
3700.8	75°	2661.8	1147.6	248.2	202.9	229.1	295.0	376.9	333.6	249.2	245.1
1853.5	77.5°	1359.8	548.3	164.2	148.3	159.6	232.7	316.6	298.1	252.8	202.3
527.2	80°	442.3	202.3	103.5	100.9	106.1	155.0	245.1	244.6	191.5	137.5
127.7	82.5°	141.1	87.0	67.4	64.9	62.3	97.3	170.9	193.6	129.2	87.0
45.8	85°	56.1	52.0	39.6	36.6	26.3	45.8	89.6	128.7	96.3	62.8
11.8	87.5°	20.6	20.6	10.8	7.7	5.7	15.4	24.2	38.6	55.1	32.4
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>
1402.5
1511.1
1563.1
1552.8
1474.6
1347.4
1219.2
1123.4
1067.3
1045.2
1032.3
1019.4
977.7
882.5
766.6
659.0
573.6
515.4
513.8
509.2
474.7
414.5
380.0
365.6
353.7
328.0
310.5
290.4
268.2
242.5
231.2
180.2
121.5
86.5
64.4
31.9
0.0

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