

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: P939599

Luminaire Tested: **GALN-SB2B-735-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939599  
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-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

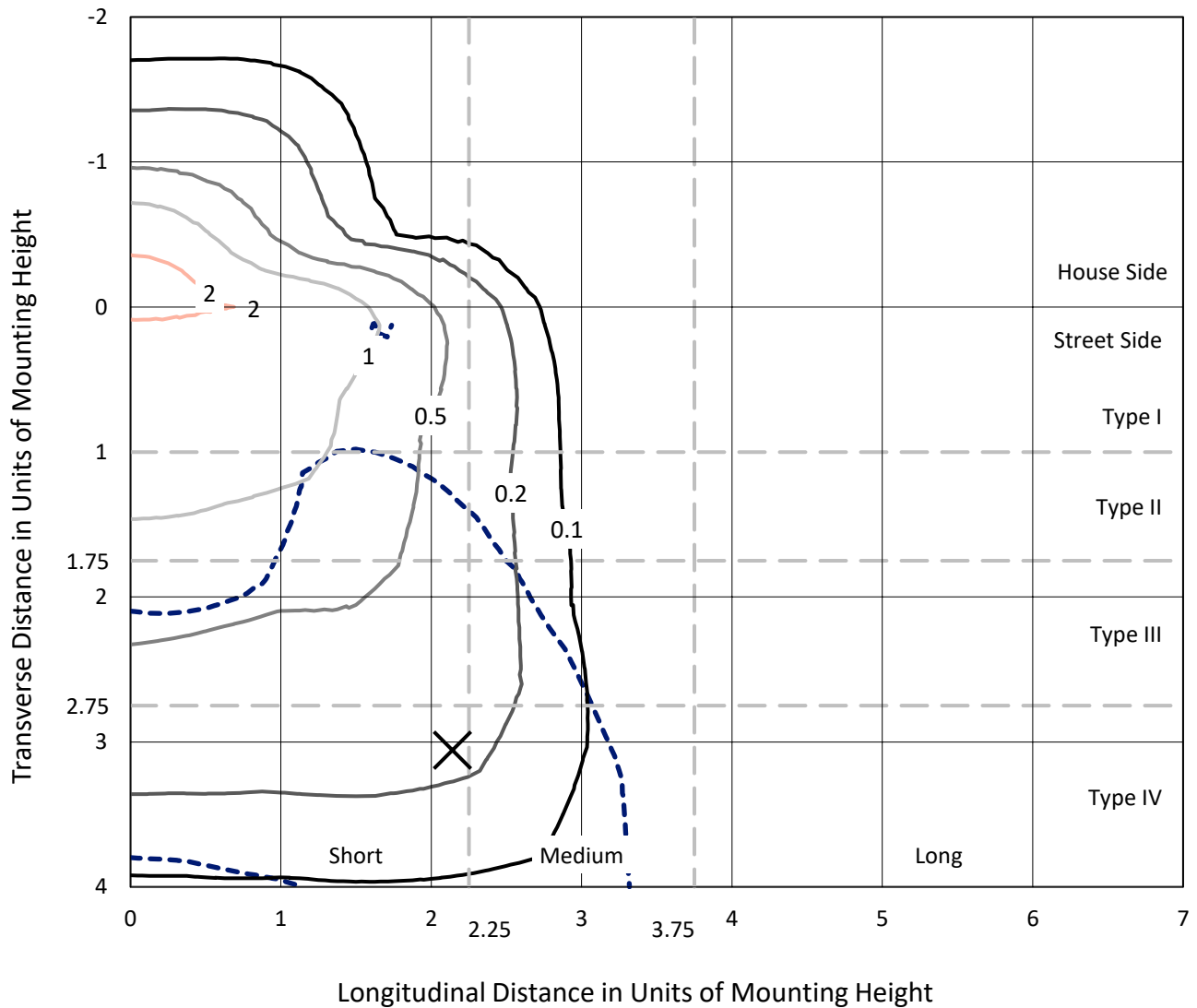
Lumens per Lamp: N/A  
Luminaire Lumens: 11130 lumens  
Efficiency: N/A  
Efficacy: 150.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

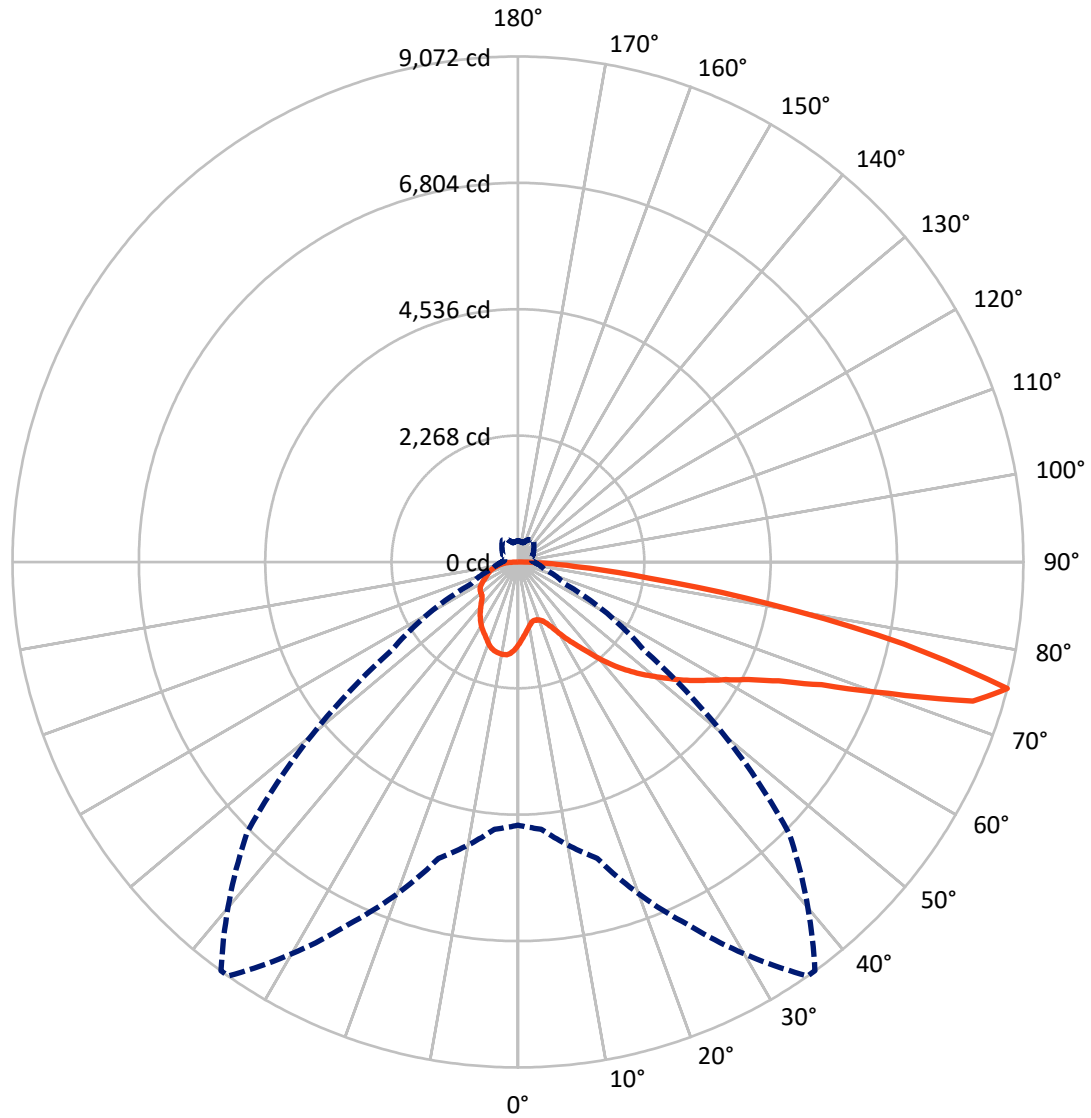
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	2648.7	0.0	2648.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	8481.3	0.0	8481.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	11130.0	0.0	11130.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	1.3
10°-20°	405.0	3.6
20°-30°	680.2	6.1
30°-40°	1057.1	9.5
40°-50°	1569.0	14.1
50°-60°	2166.1	19.5
60°-70°	2628.0	23.6
70°-80°	2171.8	19.5
80°-90°	312.4	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°	11130.0	100.0
0°-180°	11130.0	100.0

**Coefficient of Utilization**



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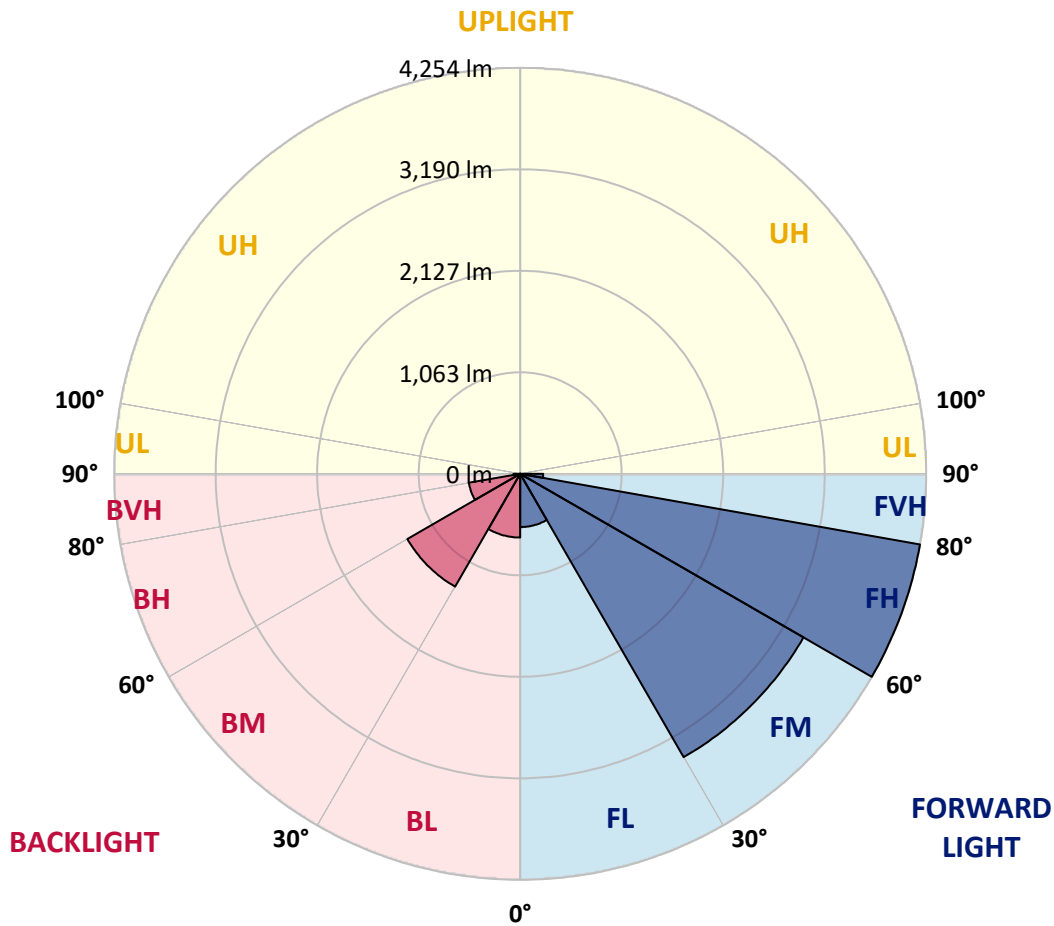
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.1	5.0			
FM (30°-60°)	3427.4	30.8			
FH (60°-80°)	4253.7	38.2			G2/5000
FVH (80°-90°)	242.0	2.2			G3/500
BL (0°-30°)	667.5	6.0	B2/1000		
BM (30°-60°)	1364.7	12.3	B2/2500		
BH (60°-80°)	546.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	70.3	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1
2.5°	1367.6	1376.0	1379.7	1377.9	1386.9	1385.7	1398.3	1414.0	1435.6	1456.7
5°	1262.3	1271.4	1279.2	1286.4	1303.8	1309.3	1329.1	1359.2	1398.9	1439.2
7.5°	1164.3	1172.1	1184.1	1197.3	1226.8	1232.2	1265.3	1312.3	1367.6	1426.6
10°	1084.2	1092.1	1104.7	1119.7	1156.4	1163.1	1205.2	1267.7	1339.9	1414.6
12.5°	1049.9	1052.3	1059.6	1074.6	1106.5	1110.7	1157.0	1228.6	1312.9	1405.5
15°	1048.1	1052.9	1053.5	1061.4	1087.8	1089.6	1132.4	1203.4	1296.0	1403.7
17.5°	1066.2	1069.8	1064.4	1069.2	1091.5	1094.5	1128.2	1191.3	1290.6	1411.5
20°	1114.3	1117.3	1101.1	1094.5	1110.7	1113.1	1146.2	1199.2	1296.0	1427.8
22.5°	1216.6	1218.4	1178.7	1151.6	1152.8	1154.0	1182.9	1231.0	1317.1	1457.3
25°	1376.0	1374.8	1311.7	1259.3	1229.2	1222.6	1241.9	1282.8	1352.6	1496.4
27.5°	1562.6	1553.5	1490.4	1412.1	1346.6	1336.9	1332.7	1350.2	1403.1	1548.1
30°	1773.2	1764.7	1696.7	1594.5	1503.6	1488.0	1448.3	1439.2	1478.3	1618.5
32.5°	2004.2	1998.8	1917.6	1793.6	1672.1	1654.0	1587.2	1563.2	1593.9	1725.0
35°	2197.9	2193.1	2125.7	1998.2	1849.6	1827.3	1759.3	1732.2	1747.9	1861.6
37.5°	2373.0	2370.6	2312.9	2212.4	2059.0	2031.9	1955.5	1946.4	1943.4	2041.5
40°	2535.5	2529.5	2469.3	2416.4	2302.6	2278.0	2210.6	2202.8	2179.9	2262.9
42.5°	2715.4	2699.8	2612.5	2587.8	2557.2	2536.7	2496.4	2497.6	2447.0	2512.6
45°	2862.2	2853.2	2763.5	2749.1	2782.2	2773.8	2808.7	2817.7	2719.6	2774.4
47.5°	3019.8	3011.4	2935.6	2925.4	3015.0	3017.4	3140.8	3143.8	2985.5	3046.3
50°	3214.2	3202.2	3126.9	3139.6	3240.1	3249.1	3474.7	3454.3	3230.4	3322.5
52.5°	3342.3	3349.6	3333.3	3353.8	3491.0	3499.4	3803.2	3750.9	3472.9	3595.1
55°	3436.8	3451.3	3501.8	3548.7	3755.7	3764.1	4113.1	4033.1	3673.9	3847.8
57.5°	3558.4	3537.9	3632.4	3723.8	4007.2	4029.5	4414.5	4305.0	3852.0	4065.6
60°	3732.8	3718.4	3791.8	3927.2	4288.8	4324.3	4733.4	4549.9	3982.5	4238.3
62.5°	4086.6	4050.5	4062.0	4181.7	4643.8	4690.7	5093.2	4763.5	4047.5	4305.6
65°	4615.5	4553.5	4495.8	4578.8	5143.8	5190.1	5499.4	4931.4	4023.5	4175.1
67.5°	5281.6	5220.2	5149.2	5227.4	5880.2	5916.9	6000.6	5025.9	3833.9	3672.1
70°	5830.9	5808.0	5892.9	6214.8	7056.5	7057.7	6643.2	4947.6	3314.7	2603.5
72.5°	5758.1	5744.3	6191.3	7186.5	8539.1	8507.2	7251.5	4355.6	2232.8	1174.5
75°	4723.8	4813.5	5506.0	7169.0	9071.6	9067.4	6879.0	2768.9	923.6	486.8
77.5°	2533.1	2675.1	3574.6	5293.0	7081.8	7188.3	4836.3	968.7	396.5	311.7
80°	826.1	950.1	1424.8	2694.9	4601.7	4581.8	2072.8	380.3	271.4	220.8
82.5°	350.8	365.2	636.6	1272.6	2361.6	2324.9	660.0	218.4	190.7	151.0
85°	137.2	153.4	281.0	588.4	1022.9	1000.6	238.3	108.3	122.1	98.7
87.5°	45.1	54.8	100.5	201.6	318.3	306.9	58.4	37.3	52.9	45.1
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°
1483.1	0°	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1	1483.1
1487.4	2.5°	1495.8	1505.4	1516.8	1533.7	1548.1	1560.2	1572.8	1580.6	1583.6	1592.7
1489.8	5°	1506.6	1527.7	1556.0	1583.6	1610.7	1626.9	1641.4	1648.6	1655.2	1660.0
1496.4	7.5°	1524.7	1551.7	1596.3	1632.4	1655.2	1668.5	1678.1	1675.7	1678.1	1679.3
1503.6	10°	1540.3	1578.2	1631.2	1665.5	1682.9	1683.5	1681.1	1672.7	1668.5	1669.1
1514.4	12.5°	1559.0	1601.1	1658.2	1687.1	1691.9	1678.7	1668.5	1654.0	1648.6	1646.2
1530.7	15°	1584.2	1632.4	1687.7	1698.6	1686.5	1669.7	1652.2	1628.8	1616.7	1607.1
1558.4	17.5°	1614.9	1667.9	1710.6	1702.8	1676.9	1649.2	1620.9	1585.4	1560.8	1550.5
1596.3	20°	1657.6	1705.2	1728.0	1693.7	1654.6	1612.5	1564.4	1521.1	1498.2	1488.0
1644.4	22.5°	1709.4	1755.1	1744.9	1678.1	1622.7	1555.3	1495.2	1463.3	1451.9	1444.6
1706.4	25°	1771.4	1810.5	1756.9	1655.2	1570.4	1479.5	1433.2	1423.0	1417.6	1412.1
1782.2	27.5°	1852.0	1873.0	1765.9	1621.5	1488.6	1398.9	1382.1	1383.9	1382.1	1373.0
1887.5	30°	1958.5	1954.3	1774.4	1566.8	1394.7	1326.1	1327.3	1335.1	1336.3	1330.3
2034.3	32.5°	2098.7	2055.9	1778.6	1495.8	1305.0	1262.3	1263.5	1272.0	1278.0	1267.7
2226.2	35°	2268.3	2174.5	1772.0	1406.7	1235.9	1201.6	1192.5	1194.9	1196.7	1187.1
2459.1	37.5°	2466.3	2307.5	1742.5	1308.1	1178.7	1142.0	1122.7	1106.5	1096.9	1087.8
2722.6	40°	2683.5	2452.5	1688.3	1211.8	1114.9	1078.8	1049.9	1019.3	986.8	974.7
3001.8	42.5°	2910.9	2601.7	1622.7	1119.7	1041.5	1012.0	981.3	936.8	888.1	863.4
3291.8	45°	3146.8	2754.5	1558.4	1028.9	966.3	953.7	918.2	864.6	811.7	780.4
3582.4	47.5°	3377.8	2898.9	1463.9	937.4	895.9	909.7	882.1	832.7	773.8	724.4
3870.6	50°	3598.7	3034.3	1309.3	844.8	838.7	896.5	870.0	799.0	731.6	668.5
4153.4	52.5°	3817.7	3143.8	1111.3	760.5	808.1	892.9	854.4	776.2	693.7	627.6
4419.4	55°	4003.6	3200.4	920.6	688.3	763.5	862.2	835.7	749.1	640.2	569.8
4601.7	57.5°	4109.5	3154.6	761.7	617.3	702.2	811.7	803.8	691.3	576.4	522.3
4637.2	60°	4063.8	2969.3	631.8	555.4	643.8	756.9	748.5	634.2	527.7	476.5
4447.0	62.5°	3811.7	2616.1	528.9	501.2	590.9	701.0	693.1	590.3	490.4	441.0
3942.2	65°	3303.8	2128.2	448.9	456.1	537.3	633.6	645.0	553.5	460.9	412.8
3049.9	67.5°	2519.8	1541.5	386.3	417.0	485.0	567.4	600.5	527.1	436.2	390.5
1764.7	70°	1436.2	875.4	333.3	379.1	438.6	506.0	566.2	506.0	409.7	371.8
661.2	72.5°	544.5	401.9	288.2	341.2	394.1	454.3	528.3	472.9	379.1	350.8
341.8	75°	290.6	244.9	242.5	296.6	343.0	403.7	480.7	440.4	356.2	370.6
236.5	77.5°	198.0	173.3	202.8	253.9	287.0	347.8	430.2	391.1	308.7	307.5
163.7	80°	137.2	122.7	164.9	204.6	222.0	292.4	375.4	335.7	251.5	234.7
101.1	82.5°	82.4	80.0	123.3	152.8	157.0	225.6	311.1	281.6	205.8	179.3
60.2	85°	45.1	47.5	78.8	89.7	91.5	157.6	243.7	217.8	158.2	133.0
21.7	87.5°	12.6	16.2	28.9	35.5	43.9	81.8	145.0	129.4	79.4	55.4
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>
1483.1
1592.1
1661.2
1681.1
1670.3
1645.0
1610.1
1551.1
1486.8
1445.8
1412.1
1374.8
1333.3
1272.6
1193.7
1093.9
980.1
866.4
778.0
719.0
663.1
620.3
563.8
515.0
469.3
433.2
404.9
383.3
367.0
346.0
382.7
283.4
224.4
180.5
134.2
55.4
0.0

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