

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: P939269

Luminaire Tested: **GALN-SB1D-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939269
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-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10644 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

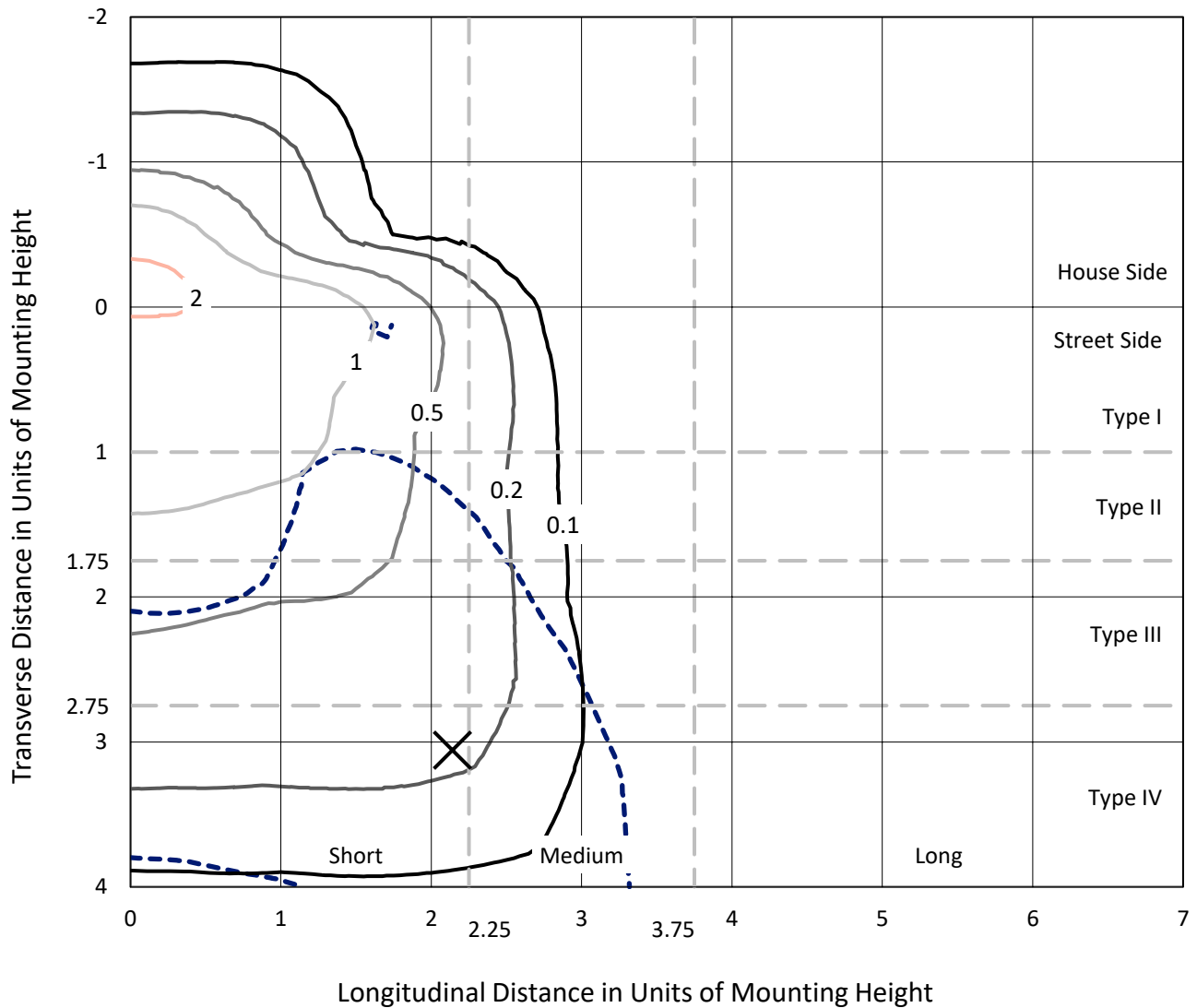
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

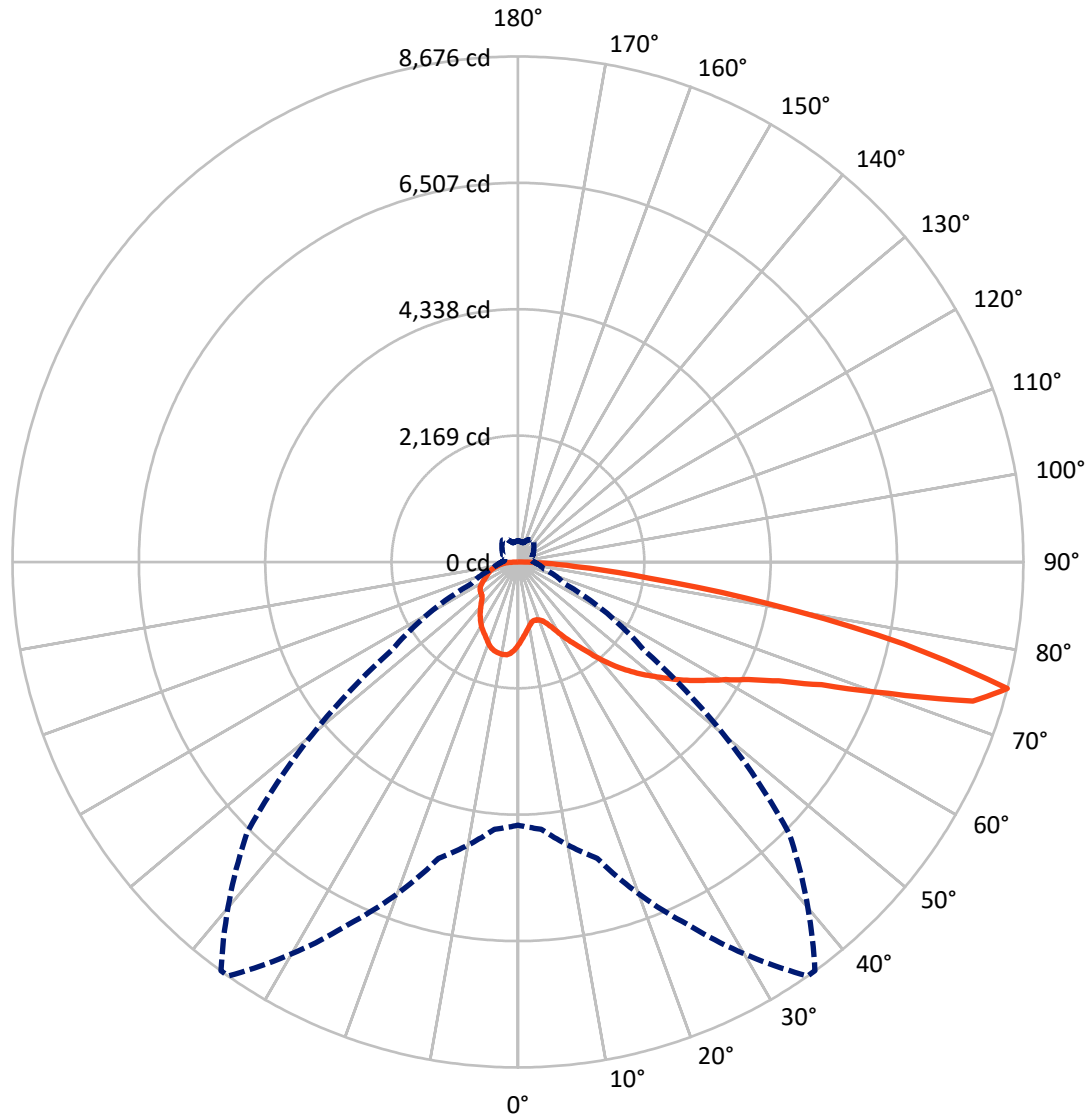
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	2533.0	0.0	2533.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	8111.0	0.0	8111.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	10644.0	0.0	10644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.3
10°-20°	387.4	3.6
20°-30°	650.5	6.1
30°-40°	1010.9	9.5
40°-50°	1500.5	14.1
50°-60°	2071.5	19.5
60°-70°	2513.2	23.6
70°-80°	2077.0	19.5
80°-90°	298.7	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°	10644.0	100.0
0°-180°	10644.0	100.0

Coefficient of Utilization



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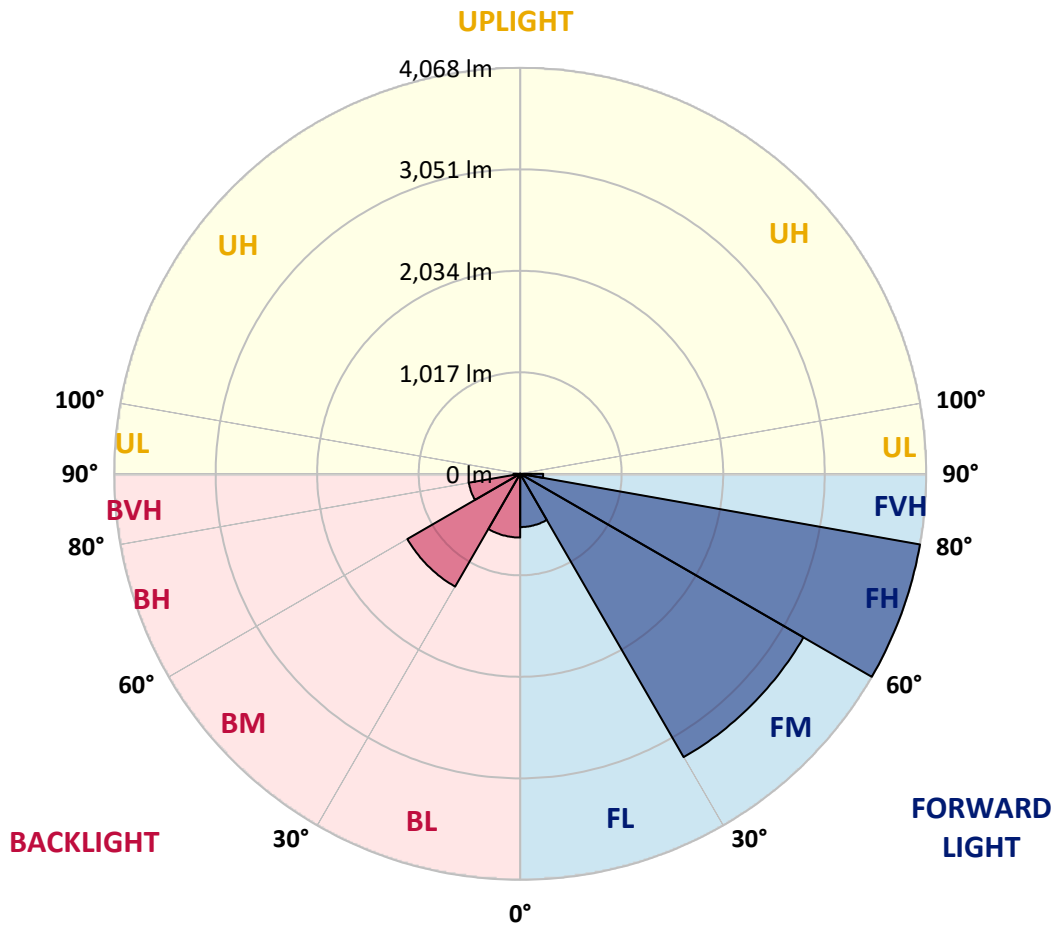
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.8	5.0			
FM (30°-60°)	3277.8	30.8			
FH (60°-80°)	4068.0	38.2			G2/5000
FVH (80°-90°)	231.5	2.2			G3/500
BL (0°-30°)	638.4	6.0	B2/1000		
BM (30°-60°)	1305.2	12.3	B2/2500		
BH (60°-80°)	522.2	4.9	B2/1000		G2/1000
BVH (80°-90°)	67.3	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°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1307.9	1316.0	1319.4	1317.7	1326.3	1325.2	1337.3	1352.2	1372.9	1393.1
5°	1207.2	1215.8	1223.3	1230.2	1246.9	1252.1	1271.1	1299.9	1337.8	1376.4
7.5°	1113.4	1120.9	1132.4	1145.1	1173.3	1178.4	1210.1	1255.0	1307.9	1364.3
10°	1036.9	1044.4	1056.5	1070.8	1105.9	1112.3	1152.5	1212.4	1281.4	1352.8
12.5°	1004.1	1006.4	1013.3	1027.7	1058.2	1062.2	1106.5	1175.0	1255.5	1344.2
15°	1002.4	1007.0	1007.5	1015.0	1040.3	1042.1	1082.9	1150.8	1239.4	1342.4
17.5°	1019.6	1023.1	1017.9	1022.5	1043.8	1046.7	1078.9	1139.3	1234.3	1349.9
20°	1065.7	1068.5	1053.0	1046.7	1062.2	1064.5	1096.2	1146.8	1239.4	1365.4
22.5°	1163.5	1165.2	1127.2	1101.3	1102.5	1103.6	1131.3	1177.3	1259.6	1393.6
25°	1316.0	1314.8	1254.4	1204.3	1175.6	1169.2	1187.6	1226.8	1293.5	1431.0
27.5°	1494.3	1485.7	1425.3	1350.5	1287.8	1278.6	1274.5	1291.2	1341.9	1480.5
30°	1695.7	1687.7	1622.7	1524.8	1437.9	1423.0	1385.0	1376.4	1413.8	1547.9
32.5°	1916.7	1911.5	1833.8	1715.3	1599.1	1581.8	1517.9	1494.9	1524.3	1649.7
35°	2102.0	2097.4	2032.9	1910.9	1768.8	1747.5	1682.5	1656.6	1671.6	1780.3
37.5°	2269.4	2267.1	2211.9	2115.8	1969.1	1943.2	1870.1	1861.5	1858.6	1952.4
40°	2424.8	2419.0	2361.5	2310.8	2202.1	2178.5	2114.1	2106.6	2084.7	2164.1
42.5°	2596.8	2581.9	2498.4	2474.8	2445.5	2425.9	2387.4	2388.5	2340.2	2402.9
45°	2737.2	2728.6	2642.9	2629.0	2660.7	2652.6	2686.0	2694.6	2600.9	2653.2
47.5°	2888.0	2879.9	2807.4	2797.6	2883.4	2885.7	3003.6	3006.5	2855.2	2913.3
50°	3073.8	3062.3	2990.4	3002.5	3098.6	3107.2	3323.0	3303.4	3089.4	3177.4
52.5°	3196.4	3203.3	3187.8	3207.3	3338.5	3346.6	3637.2	3587.1	3321.3	3438.1
55°	3286.7	3300.6	3348.9	3393.8	3591.7	3599.8	3933.5	3857.0	3513.5	3679.7
57.5°	3403.0	3383.4	3473.7	3561.2	3832.2	3853.5	4221.8	4117.1	3683.8	3888.0
60°	3569.8	3556.0	3626.2	3755.7	4101.5	4135.5	4526.7	4351.2	3808.6	4053.2
62.5°	3908.2	3873.7	3884.6	3999.1	4441.0	4485.9	4870.8	4555.5	3870.8	4117.6
65°	4414.0	4354.7	4299.5	4378.9	4919.2	4963.5	5259.2	4716.1	3847.8	3992.8
67.5°	5050.9	4992.3	4924.4	4999.2	5623.5	5658.6	5738.6	4806.4	3666.5	3511.7
70°	5576.3	5554.4	5635.6	5943.4	6748.4	6749.6	6353.1	4731.6	3169.9	2489.8
72.5°	5506.7	5493.4	5921.0	6872.7	8166.2	8135.7	6934.8	4165.4	2135.3	1123.2
75°	4517.5	4603.3	5265.6	6856.0	8675.5	8671.4	6578.7	2648.0	883.3	465.5
77.5°	2422.5	2558.3	3418.5	5061.9	6772.6	6874.4	4625.1	926.4	379.2	298.1
80°	790.0	908.6	1362.6	2577.3	4400.7	4381.7	1982.3	363.7	259.5	211.2
82.5°	335.5	349.3	608.8	1217.0	2258.5	2223.4	631.2	208.9	182.4	144.4
85°	131.2	146.7	268.7	562.8	978.2	956.9	227.9	103.6	116.8	94.4
87.5°	43.2	52.4	96.1	192.8	304.4	293.5	55.8	35.7	50.6	43.2
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°
1418.4	0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
1422.4	2.5°	1430.5	1439.7	1450.6	1466.7	1480.5	1492.0	1504.1	1511.6	1514.5	1523.1
1424.7	5°	1440.8	1461.0	1488.0	1514.5	1540.4	1555.9	1569.7	1576.6	1583.0	1587.6
1431.0	7.5°	1458.1	1484.0	1526.6	1561.1	1583.0	1595.6	1604.8	1602.5	1604.8	1606.0
1437.9	10°	1473.0	1509.3	1559.9	1592.7	1609.4	1610.0	1607.7	1599.6	1595.6	1596.2
1448.3	12.5°	1490.9	1531.2	1585.8	1613.4	1618.1	1605.4	1595.6	1581.8	1576.6	1574.3
1463.8	15°	1515.1	1561.1	1614.0	1624.4	1612.9	1596.8	1580.1	1557.6	1546.1	1536.9
1490.3	17.5°	1544.4	1595.0	1635.9	1628.4	1603.7	1577.2	1550.2	1516.2	1492.6	1482.8
1526.6	20°	1585.3	1630.7	1652.6	1619.8	1582.4	1542.1	1496.1	1454.6	1432.8	1423.0
1572.6	22.5°	1634.7	1678.5	1668.7	1604.8	1551.9	1487.4	1429.9	1399.4	1388.5	1381.6
1631.9	25°	1694.0	1731.4	1680.2	1583.0	1501.8	1414.9	1370.6	1360.8	1355.7	1350.5
1704.4	27.5°	1771.1	1791.3	1688.8	1550.7	1423.6	1337.8	1321.7	1323.4	1321.7	1313.1
1805.1	30°	1873.0	1868.9	1696.9	1498.4	1333.8	1268.2	1269.4	1276.8	1278.0	1272.2
1945.5	32.5°	2007.0	1966.2	1700.9	1430.5	1248.1	1207.2	1208.4	1216.4	1222.2	1212.4
2129.0	35°	2169.3	2079.5	1694.6	1345.3	1181.9	1149.1	1140.5	1142.8	1144.5	1135.3
2351.7	37.5°	2358.6	2206.7	1666.4	1250.9	1127.2	1092.1	1073.7	1058.2	1049.0	1040.3
2603.7	40°	2566.3	2345.4	1614.6	1158.9	1066.2	1031.7	1004.1	974.7	943.7	932.2
2870.7	42.5°	2783.8	2488.1	1551.9	1070.8	996.0	967.8	938.5	895.9	849.3	825.7
3148.1	45°	3009.4	2634.2	1490.3	984.0	924.1	912.0	878.1	826.9	776.2	746.3
3426.0	47.5°	3230.4	2772.3	1400.0	896.5	856.8	870.0	843.6	796.4	740.0	692.8
3701.6	50°	3441.5	2901.8	1252.1	807.9	802.1	857.4	832.0	764.1	699.7	639.3
3972.1	52.5°	3651.0	3006.5	1062.8	727.3	772.8	853.9	817.1	742.3	663.4	600.2
4226.4	55°	3828.8	3060.6	880.4	658.3	730.2	824.6	799.2	716.4	612.2	544.9
4400.7	57.5°	3930.0	3016.9	728.5	590.4	671.5	776.2	768.7	661.1	551.2	499.5
4434.7	60°	3886.3	2839.6	604.2	531.1	615.7	723.9	715.8	606.5	504.6	455.7
4252.9	62.5°	3645.2	2501.9	505.8	479.3	565.1	670.4	662.9	564.5	469.0	421.8
3770.1	65°	3159.6	2035.2	429.3	436.2	513.8	605.9	616.8	529.4	440.8	394.7
2916.8	67.5°	2409.8	1474.2	369.4	398.8	463.8	542.6	574.3	504.1	417.2	373.4
1687.7	70°	1373.5	837.2	318.8	362.5	419.5	483.9	541.5	483.9	391.9	355.6
632.4	72.5°	520.7	384.4	275.6	326.3	376.9	434.4	505.2	452.3	362.5	335.5
326.8	75°	277.9	234.2	231.9	283.7	328.0	386.1	459.8	421.2	340.6	354.5
226.1	77.5°	189.3	165.7	193.9	242.8	274.5	332.6	411.4	374.0	295.2	294.0
156.5	80°	131.2	117.4	157.7	195.6	212.3	279.6	359.1	321.1	240.5	224.4
96.7	82.5°	78.8	76.5	118.0	146.2	150.2	215.8	297.5	269.3	196.8	171.5
57.5	85°	43.2	45.5	75.4	85.7	87.5	150.8	233.0	208.3	151.3	127.2
20.7	87.5°	12.1	15.5	27.6	33.9	42.0	78.3	138.7	123.7	76.0	52.9
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>
1418.4
1522.5
1588.7
1607.7
1597.3
1573.2
1539.8
1483.4
1421.8
1382.7
1350.5
1314.8
1275.1
1217.0
1141.6
1046.1
937.3
828.6
744.0
687.6
634.1
593.2
539.2
492.6
448.8
414.3
387.3
366.5
351.0
330.9
366.0
271.0
214.6
172.6
128.3
52.9
0.0

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