

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: P947328

Luminaire Tested: **GALN-SB2C-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2C-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10398 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

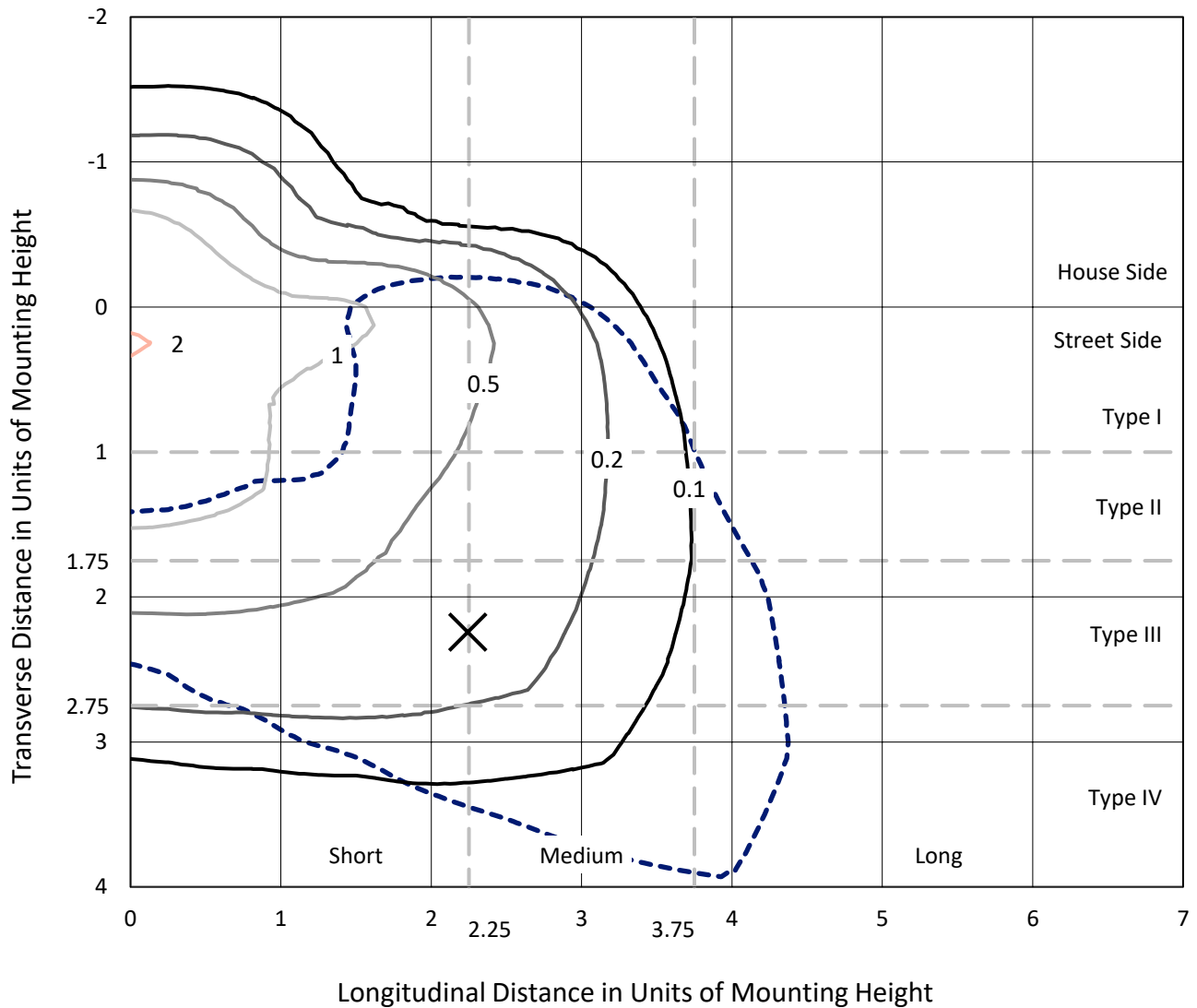
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

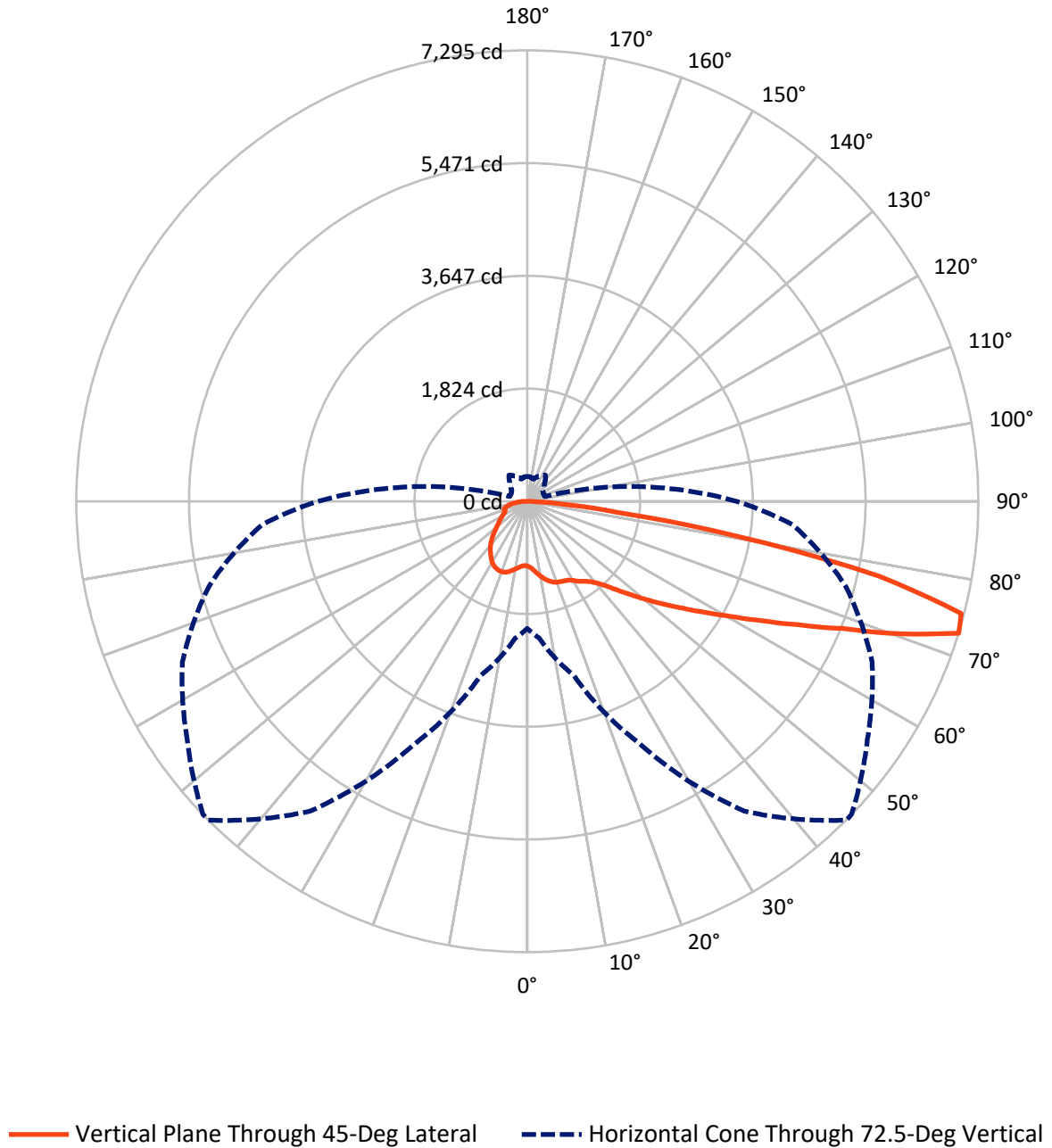
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2350.6	0.0	2350.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8047.4	0.0	8047.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	10398.0	0.0	10398.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	1.0
10°-20°	356.0	3.4
20°-30°	619.2	6.0
30°-40°	887.7	8.5
40°-50°	1249.9	12.0
50°-60°	1914.5	18.4
60°-70°	2773.4	26.7
70°-80°	2214.7	21.3
80°-90°	275.8	2.7
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°	10398.0	100.0
0°-180°	10398.0	100.0

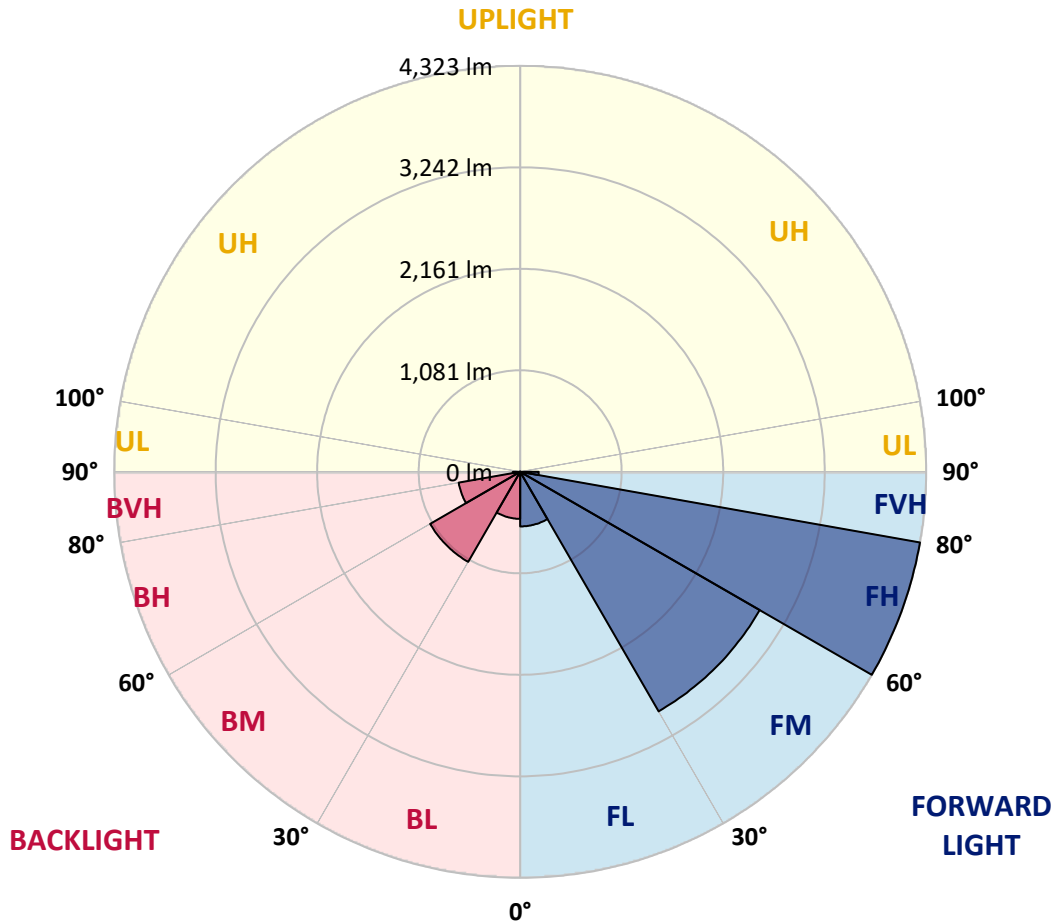


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.5	5.6			
FM (30°-60°)	2945.3	28.3			
FH (60°-80°)	4322.8	41.6			G2/5000
FVH (80°-90°)	197.9	1.9			G2/225
BL (0°-30°)	500.5	4.8	B2/1000		
BM (30°-60°)	1106.8	10.6	B2/2500		
BH (60°-80°)	665.4	6.4	B2/1000		G2/1000
BVH (80°-90°)	77.9	0.7			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°	45°	46°	55°	65°	75°
0°	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0
2.5°	1090.0	1097.2	1090.6	1084.6	1081.8	1074.7	1074.2	1069.8	1067.0	1059.4
5°	1166.2	1175.5	1164.5	1152.5	1141.5	1124.0	1121.8	1109.2	1095.0	1078.5
7.5°	1252.2	1260.4	1247.8	1229.7	1210.5	1181.5	1181.0	1158.0	1135.5	1107.6
10°	1327.2	1338.2	1321.2	1296.5	1272.4	1239.6	1235.7	1209.4	1181.0	1144.8
12.5°	1393.5	1401.2	1384.7	1354.6	1326.7	1293.8	1288.9	1259.8	1228.1	1187.0
15°	1446.1	1455.9	1434.0	1401.7	1372.1	1339.8	1335.4	1309.1	1277.4	1234.1
17.5°	1480.6	1488.8	1466.3	1430.2	1401.7	1374.9	1371.6	1349.7	1321.7	1277.9
20°	1493.7	1502.5	1478.9	1442.2	1416.0	1395.1	1393.5	1377.6	1358.4	1318.5
22.5°	1506.9	1515.1	1484.4	1446.1	1423.1	1409.9	1409.4	1399.0	1391.3	1358.4
25°	1560.0	1562.2	1521.1	1465.8	1432.9	1421.4	1420.9	1420.3	1423.6	1397.9
27.5°	1606.0	1605.5	1570.4	1518.4	1467.4	1443.3	1442.8	1448.3	1458.7	1437.3
30°	1673.4	1667.4	1625.7	1571.5	1525.0	1487.7	1484.4	1479.5	1487.7	1470.7
32.5°	1816.4	1797.2	1729.8	1633.4	1572.6	1544.1	1539.7	1509.1	1512.4	1502.0
35°	2021.2	1996.0	1906.2	1750.6	1631.8	1591.2	1589.0	1550.2	1543.6	1534.3
37.5°	2265.0	2233.8	2129.1	1920.4	1733.7	1646.0	1642.7	1607.7	1580.8	1571.0
40°	2509.8	2470.4	2383.8	2127.5	1883.7	1737.5	1727.1	1673.9	1643.3	1626.8
42.5°	2747.6	2714.7	2640.7	2359.7	2068.9	1871.1	1848.1	1757.2	1734.2	1718.9
45°	2957.9	2928.3	2874.1	2607.9	2285.8	2053.0	2030.5	1882.1	1875.0	1875.0
47.5°	3128.8	3122.2	3064.7	2860.9	2541.6	2260.0	2221.2	2055.7	2074.9	2104.5
50°	3318.3	3300.2	3238.9	3110.2	2842.3	2497.2	2465.5	2268.8	2340.6	2421.6
52.5°	3492.5	3502.4	3433.9	3369.8	3181.9	2761.8	2705.9	2520.2	2675.2	2809.4
55°	3671.6	3672.2	3653.0	3644.2	3538.0	3054.3	2992.9	2822.6	3069.1	3235.6
57.5°	3839.8	3840.9	3869.4	3946.6	3951.0	3391.7	3322.1	3194.0	3506.7	3676.5
60°	3989.9	3997.5	4075.3	4256.1	4314.1	3778.4	3712.7	3632.7	3959.2	4130.1
62.5°	4040.3	4068.2	4241.3	4498.2	4672.9	4252.8	4188.2	4140.5	4434.6	4593.5
65°	3954.8	4018.9	4353.6	4698.1	5042.1	4816.4	4752.3	4700.3	4928.7	5078.3
67.5°	3745.0	3827.7	4347.0	4907.9	5490.2	5494.6	5434.9	5312.7	5458.4	5515.9
70°	3192.3	3316.1	3964.1	4986.2	6004.5	6421.9	6364.4	6050.0	5987.0	5708.7
72.5°	2056.8	2223.3	2919.0	4341.5	6119.0	7294.5	7291.2	6715.5	6154.1	5334.1
75°	750.4	852.3	1356.2	2725.1	5136.3	7250.1	7271.5	6601.6	5617.8	4120.2
77.5°	273.3	299.1	442.6	1047.3	3158.9	5817.2	5861.6	5277.6	3998.6	2067.8
80°	143.5	157.8	226.8	406.4	1353.5	3454.7	3524.3	3136.5	1879.4	622.8
82.5°	79.4	86.0	127.1	220.7	609.7	1477.3	1518.9	1239.0	661.1	264.0
85°	42.7	45.5	59.7	120.5	298.0	512.2	523.7	370.3	263.5	155.0
87.5°	12.6	15.3	19.7	38.3	116.7	115.0	117.8	73.4	104.1	78.3
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°
1049.0	0°	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0	1049.0
1057.2	2.5°	1053.9	1052.2	1046.2	1043.5	1040.2	1039.6	1042.4	1042.9	1043.5	1044.0
1069.2	5°	1063.7	1058.3	1052.8	1049.5	1050.6	1051.1	1056.6	1060.5	1063.2	1065.4
1091.7	7.5°	1082.9	1078.5	1069.2	1068.7	1070.3	1075.2	1082.4	1091.1	1096.1	1099.9
1120.7	10°	1111.4	1103.2	1092.2	1093.9	1097.2	1104.3	1119.1	1126.2	1134.4	1141.5
1156.3	12.5°	1140.4	1133.3	1120.7	1121.8	1127.3	1139.9	1154.1	1162.9	1168.4	1173.8
1194.7	15°	1178.2	1165.6	1151.9	1151.9	1161.8	1175.5	1182.1	1189.2	1192.5	1198.5
1235.7	17.5°	1217.1	1200.7	1182.6	1181.5	1193.6	1200.1	1204.0	1205.1	1206.2	1212.7
1275.7	20°	1256.0	1237.9	1212.2	1210.0	1212.7	1211.6	1211.1	1210.0	1211.6	1219.9
1316.8	22.5°	1294.4	1273.5	1237.9	1228.1	1220.4	1210.0	1209.4	1208.9	1210.0	1218.2
1361.2	25°	1339.3	1314.1	1266.4	1236.8	1211.1	1196.9	1198.5	1199.0	1200.1	1206.7
1407.2	27.5°	1388.0	1360.1	1292.7	1234.1	1187.5	1177.7	1174.9	1176.6	1180.4	1190.8
1453.2	30°	1436.8	1403.9	1316.8	1223.1	1158.0	1144.3	1135.5	1139.3	1151.4	1161.8
1493.2	32.5°	1481.1	1448.3	1336.0	1199.0	1120.2	1098.8	1087.3	1092.2	1104.3	1108.1
1537.6	35°	1533.2	1495.9	1344.2	1160.7	1079.1	1046.2	1030.9	1023.8	1029.8	1025.9
1589.6	37.5°	1591.2	1552.3	1343.1	1110.3	1030.9	993.1	971.7	944.9	932.3	919.1
1666.3	40°	1677.2	1621.4	1330.0	1049.5	971.2	936.7	898.3	852.9	824.4	798.6
1790.1	42.5°	1794.5	1717.2	1305.9	982.7	903.8	871.5	819.4	766.3	721.4	678.7
1978.0	45°	1969.2	1842.7	1275.7	911.5	830.9	799.2	742.8	683.1	632.1	577.3
2244.7	47.5°	2221.2	2011.4	1247.2	830.4	754.3	725.2	674.3	619.0	558.7	505.6
2630.3	50°	2567.3	2253.5	1221.0	751.5	678.7	656.8	616.2	559.8	499.0	456.3
3082.2	52.5°	3007.7	2582.7	1210.0	675.4	608.0	599.8	567.5	514.9	457.4	421.2
3609.2	55°	3513.3	2976.5	1210.0	602.5	546.1	548.9	526.4	477.6	427.8	395.5
4152.6	57.5°	4029.3	3375.3	1188.1	535.2	493.5	505.0	490.8	448.1	403.1	369.7
4723.9	60°	4504.8	3709.4	1099.3	473.8	447.0	465.0	455.7	419.0	364.3	336.3
5201.5	62.5°	4870.1	3897.8	928.4	425.1	408.6	429.4	424.5	380.7	357.1	345.6
5593.7	65°	5053.1	3867.2	709.9	381.8	376.3	408.6	398.2	396.6	378.0	364.8
5721.3	67.5°	4940.8	3603.1	514.9	350.0	357.7	389.5	429.4	436.0	401.5	375.8
5362.0	70°	4448.3	3125.5	383.4	319.9	334.1	390.0	489.7	456.3	393.8	363.7
4300.4	72.5°	3384.0	2330.7	297.4	288.1	303.5	392.7	516.5	447.0	371.9	402.1
2679.1	75°	1935.2	1279.6	238.8	249.2	265.1	367.0	502.8	422.9	354.9	369.2
1061.6	77.5°	737.8	491.9	197.2	210.9	213.1	320.4	480.9	421.2	338.0	329.8
318.2	80°	255.8	192.3	163.2	167.6	164.9	284.8	461.2	366.4	276.6	247.6
131.5	82.5°	104.6	95.9	129.3	123.8	117.2	221.3	372.5	299.6	226.2	199.9
63.5	85°	45.5	60.8	85.5	75.0	67.9	153.4	298.5	253.6	191.2	164.9
20.8	87.5°	9.3	23.0	36.2	34.0	35.1	102.4	212.0	180.2	135.3	101.3
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>
1049.0
1046.2
1066.5
1101.0
1139.9
1176.0
1200.7
1214.9
1223.1
1223.7
1215.5
1201.2
1173.3
1121.8
1038.0
927.4
800.3
674.8
570.8
499.6
453.5
418.5
392.2
364.3
331.9
341.8
360.4
371.4
358.8
398.8
369.2
300.7
239.4
197.7
164.3
79.4
0.0

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