

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: P949386

Luminaire Tested: **GALN-SB4A-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949386
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-SB4A-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10922 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

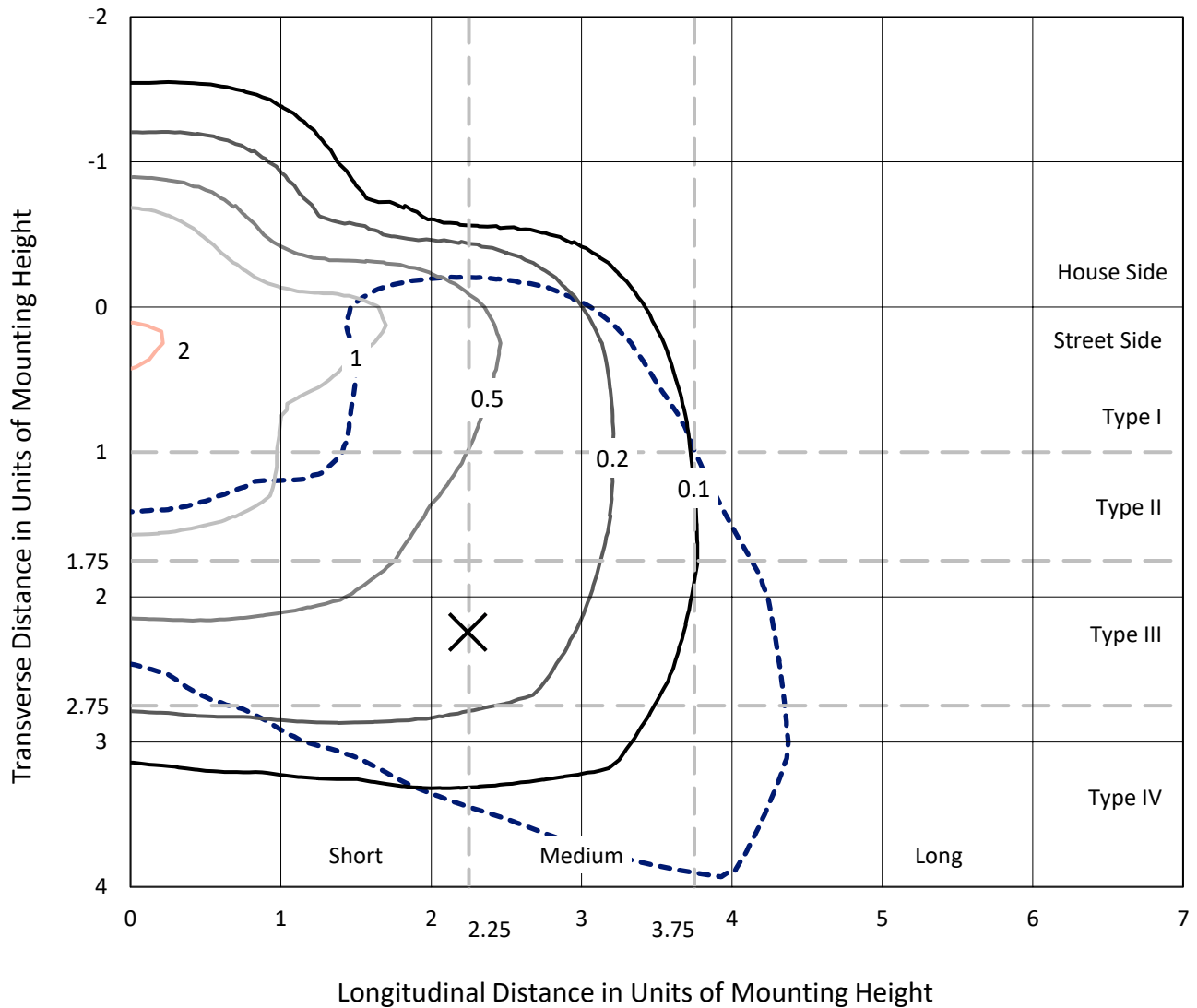
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

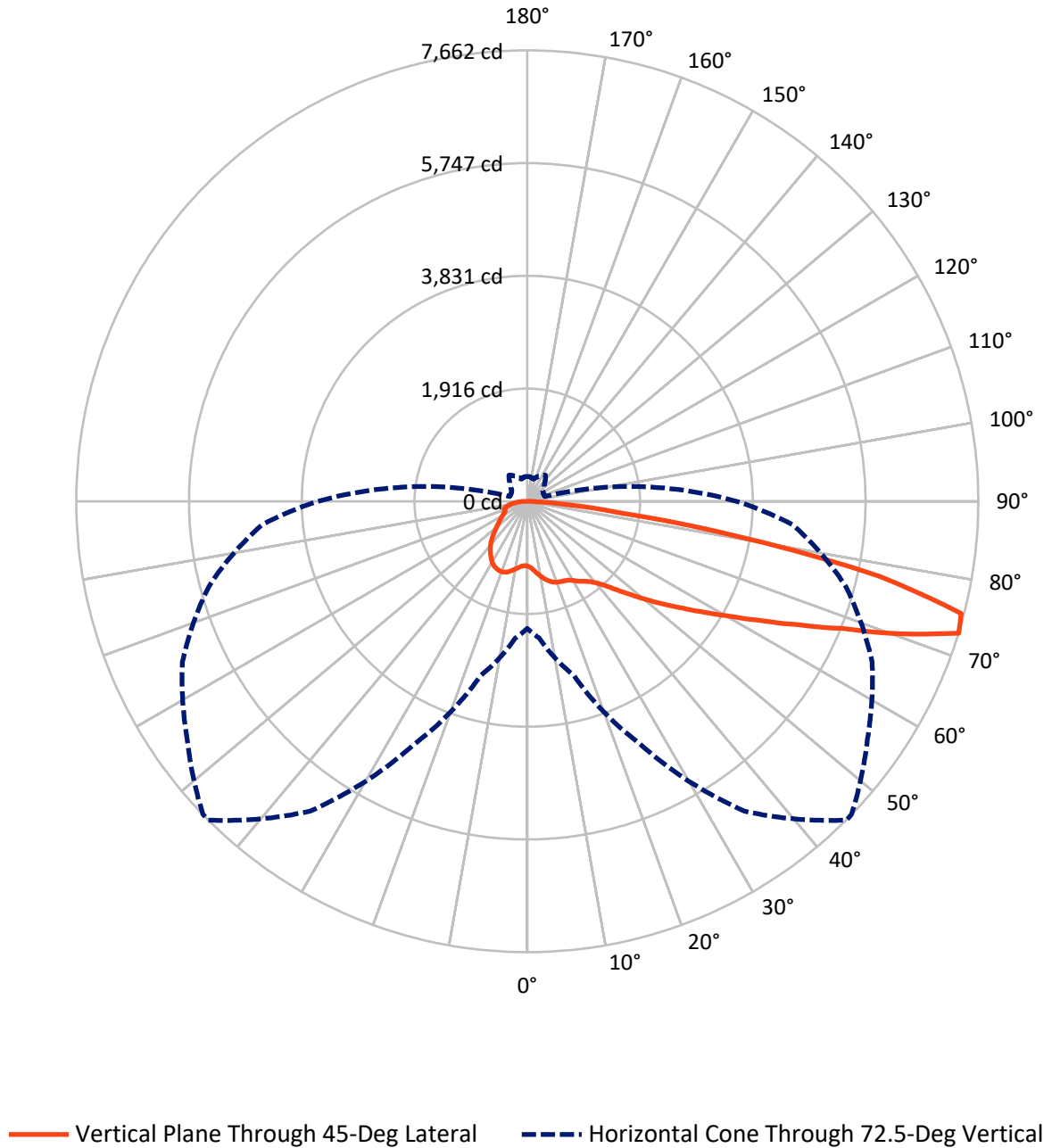
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	2469.1	0.0	2469.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8452.9	0.0	8452.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	10922.0	0.0	10922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	1.0
10°-20°	373.9	3.4
20°-30°	650.4	6.0
30°-40°	932.4	8.5
40°-50°	1312.9	12.0
50°-60°	2011.0	18.4
60°-70°	2913.2	26.7
70°-80°	2326.4	21.3
80°-90°	289.7	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°	10922.0	100.0
0°-180°	10922.0	100.0

Coefficient of Utilization



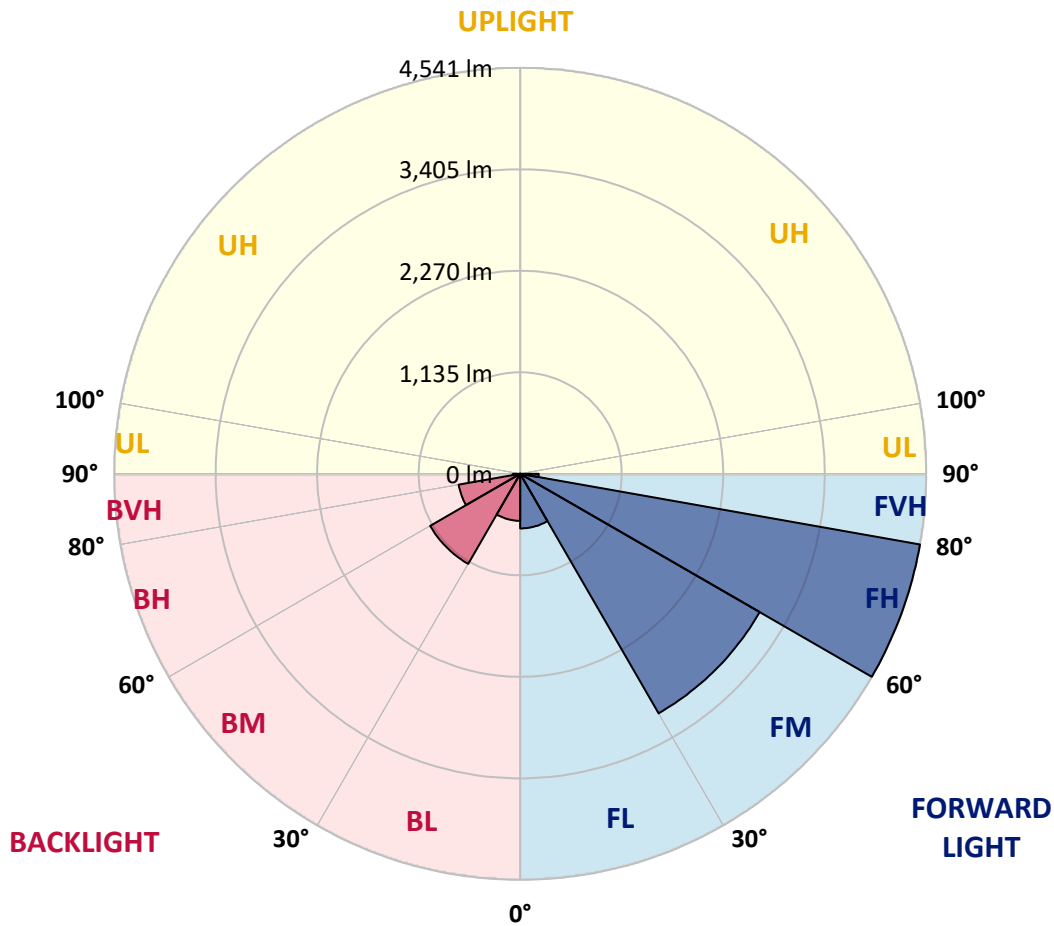
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.8	5.6			
FM (30°-60°)	3093.7	28.3			
FH (60°-80°)	4540.6	41.6			G2/5000
FVH (80°-90°)	207.9	1.9			G2/225
BL (0°-30°)	525.7	4.8	B2/1000		
BM (30°-60°)	1162.6	10.6	B2/2500		
BH (60°-80°)	698.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	81.9	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°	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8
2.5°	1145.0	1152.4	1145.5	1139.2	1136.3	1128.9	1128.3	1123.7	1120.8	1112.7
5°	1224.9	1234.7	1223.2	1210.6	1199.1	1180.6	1178.3	1165.1	1150.1	1132.9
7.5°	1315.3	1323.9	1310.7	1291.7	1271.5	1241.1	1240.5	1216.3	1192.7	1163.4
10°	1394.1	1405.6	1387.8	1361.9	1336.6	1302.0	1298.0	1270.4	1240.5	1202.5
12.5°	1463.7	1471.8	1454.5	1422.9	1393.5	1359.0	1353.8	1323.3	1290.0	1246.8
15°	1519.0	1529.3	1506.3	1472.4	1441.3	1407.3	1402.7	1375.1	1341.7	1296.3
17.5°	1555.2	1563.8	1540.2	1502.3	1472.4	1444.2	1440.7	1417.7	1388.3	1342.3
20°	1569.0	1578.2	1553.5	1514.9	1487.3	1465.4	1463.7	1447.0	1426.9	1384.9
22.5°	1582.8	1591.4	1559.2	1519.0	1494.8	1481.0	1480.4	1469.5	1461.4	1426.9
25°	1638.6	1640.9	1597.8	1539.7	1505.1	1493.1	1492.5	1491.9	1495.4	1468.3
27.5°	1687.0	1686.4	1649.6	1594.9	1541.4	1516.1	1515.5	1521.3	1532.2	1509.7
30°	1757.7	1751.4	1707.7	1650.7	1601.8	1562.7	1559.2	1554.1	1562.7	1544.8
32.5°	1907.9	1887.8	1817.0	1715.7	1651.9	1621.9	1617.3	1585.1	1588.6	1577.6
35°	2123.1	2096.6	2002.3	1838.9	1714.0	1671.4	1669.1	1628.3	1621.4	1611.6
37.5°	2379.1	2346.3	2236.4	2017.2	1821.0	1729.0	1725.5	1688.7	1660.5	1650.1
40°	2636.3	2594.9	2504.0	2234.7	1978.7	1825.0	1814.1	1758.3	1726.1	1708.8
42.5°	2886.0	2851.5	2773.8	2478.7	2173.1	1965.4	1941.3	1845.8	1821.6	1805.5
45°	3107.0	3075.9	3018.9	2739.3	2401.0	2156.5	2132.9	1976.9	1969.5	1969.5
47.5°	3286.5	3279.6	3219.1	3005.1	2669.7	2373.9	2333.1	2159.3	2179.5	2210.5
50°	3485.5	3466.6	3402.1	3266.9	2985.6	2623.1	2589.7	2383.1	2458.5	2543.7
52.5°	3668.5	3678.9	3606.9	3539.6	3342.3	2901.0	2842.3	2647.2	2810.1	2951.0
55°	3856.6	3857.2	3837.1	3827.9	3716.3	3208.2	3143.8	2964.8	3223.8	3398.7
57.5°	4033.3	4034.4	4064.4	4145.5	4150.1	3562.6	3489.6	3354.9	3683.5	3861.8
60°	4190.9	4199.0	4280.7	4470.6	4531.5	3968.8	3899.8	3815.8	4158.7	4338.2
62.5°	4243.9	4273.2	4455.0	4724.9	4908.4	4467.1	4399.2	4349.2	4658.1	4825.0
65°	4154.1	4221.4	4573.0	4934.9	5296.2	5059.2	4991.8	4937.2	5177.1	5334.2
67.5°	3933.7	4020.6	4566.1	5155.2	5766.8	5771.5	5708.7	5580.4	5733.5	5793.9
70°	3353.2	3483.2	4163.9	5237.5	6307.1	6745.5	6685.1	6354.9	6288.7	5996.4
72.5°	2160.5	2335.4	3066.1	4560.3	6427.4	7662.1	7658.6	7053.9	6464.2	5602.9
75°	788.2	895.3	1424.6	2862.4	5395.2	7615.5	7637.9	6934.3	5900.9	4327.9
77.5°	287.1	314.1	464.9	1100.1	3318.1	6110.3	6156.9	5543.6	4200.1	2172.0
80°	150.7	165.7	238.2	426.9	1421.7	3628.8	3701.9	3294.5	1974.1	654.2
82.5°	83.4	90.3	133.5	231.9	640.4	1551.7	1595.5	1301.5	694.5	277.3
85°	44.9	47.8	62.7	126.6	313.0	538.0	550.0	388.9	276.7	162.8
87.5°	13.2	16.1	20.7	40.3	122.6	120.8	123.7	77.1	109.3	82.3
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°
1101.8	0°	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8
1110.4	2.5°	1107.0	1105.3	1098.9	1096.1	1092.6	1092.0	1094.9	1095.5	1096.1	1096.6
1123.1	5°	1117.4	1111.6	1105.8	1102.4	1103.5	1104.1	1109.9	1113.9	1116.8	1119.1
1146.7	7.5°	1137.5	1132.9	1123.1	1122.5	1124.3	1129.4	1136.9	1146.1	1151.3	1155.3
1177.2	10°	1167.4	1158.8	1147.3	1149.0	1152.4	1159.9	1175.5	1182.9	1191.6	1199.1
1214.6	12.5°	1197.9	1190.4	1177.2	1178.3	1184.1	1197.3	1212.3	1221.5	1227.2	1233.0
1254.9	15°	1237.6	1224.4	1210.0	1210.0	1220.3	1234.7	1241.6	1249.1	1252.6	1258.9
1298.0	17.5°	1278.5	1261.2	1242.2	1241.1	1253.7	1260.6	1264.6	1265.8	1266.9	1273.9
1340.0	20°	1319.3	1300.3	1273.3	1271.0	1273.9	1272.7	1272.1	1271.0	1272.7	1281.3
1383.2	22.5°	1359.6	1337.7	1300.3	1290.0	1281.9	1271.0	1270.4	1269.8	1271.0	1279.6
1429.8	25°	1406.8	1380.3	1330.2	1299.2	1272.1	1257.2	1258.9	1259.5	1260.6	1267.5
1478.1	27.5°	1458.0	1428.6	1357.9	1296.3	1247.4	1237.0	1234.2	1235.9	1239.9	1250.8
1526.4	30°	1509.2	1474.7	1383.2	1284.8	1216.3	1201.9	1192.7	1196.8	1209.4	1220.3
1568.4	32.5°	1555.8	1521.3	1403.3	1259.5	1176.6	1154.2	1142.1	1147.3	1159.9	1164.0
1615.0	35°	1610.4	1571.3	1411.9	1219.2	1133.5	1098.9	1082.8	1075.4	1081.7	1077.7
1669.7	37.5°	1671.4	1630.6	1410.8	1166.3	1082.8	1043.1	1020.7	992.5	979.3	965.5
1750.2	40°	1761.8	1703.1	1397.0	1102.4	1020.1	983.9	943.6	895.8	865.9	838.9
1880.3	42.5°	1884.9	1803.8	1371.7	1032.2	949.3	915.4	860.7	804.9	757.8	712.9
2077.6	45°	2068.4	1935.5	1340.0	957.4	872.8	839.5	780.2	717.5	664.0	606.4
2357.8	47.5°	2333.1	2112.7	1310.1	872.2	792.3	761.8	708.3	650.2	586.9	531.1
2762.9	50°	2696.7	2367.0	1282.5	789.4	712.9	689.9	647.3	588.0	524.2	479.3
3237.6	52.5°	3159.3	2712.8	1271.0	709.4	638.7	630.0	596.1	540.8	480.4	442.5
3791.1	55°	3690.4	3126.5	1271.0	632.9	573.6	576.5	552.9	501.7	449.4	415.4
4361.8	57.5°	4232.4	3545.4	1248.0	562.1	518.4	530.5	515.5	470.6	423.5	388.4
4961.9	60°	4731.8	3896.3	1154.8	497.7	469.5	488.5	478.7	440.2	382.6	353.3
5463.6	62.5°	5115.5	4094.3	975.2	446.5	429.2	451.1	445.9	399.9	375.1	363.1
5875.6	65°	5307.7	4062.1	745.7	401.0	395.3	429.2	418.3	416.6	397.0	383.2
6009.7	67.5°	5189.8	3784.7	540.8	367.7	375.7	409.1	451.1	458.0	421.7	394.7
5632.2	70°	4672.5	3283.0	402.8	336.0	351.0	409.7	514.4	479.3	413.7	382.0
4517.2	72.5°	3554.6	2448.2	312.4	302.6	318.8	412.5	542.6	469.5	390.7	422.3
2814.1	75°	2032.8	1344.0	250.9	261.8	278.5	385.5	528.2	444.2	372.8	387.8
1115.1	77.5°	775.0	516.7	207.1	221.5	223.8	336.6	505.2	442.5	355.0	346.4
334.3	80°	268.7	202.0	171.5	176.1	173.2	299.2	484.5	384.9	290.6	260.1
138.1	82.5°	109.9	100.7	135.8	130.0	123.1	232.4	391.2	314.7	237.6	210.0
66.7	85°	47.8	63.9	89.8	78.8	71.3	161.1	313.6	266.4	200.8	173.2
21.9	87.5°	9.8	24.2	38.0	35.7	36.8	107.6	222.7	189.3	142.1	106.4
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>
1101.8
1098.9
1120.2
1156.5
1197.3
1235.3
1261.2
1276.2
1284.8
1285.4
1276.7
1261.8
1232.4
1178.3
1090.3
974.1
840.6
708.8
599.5
524.7
476.4
439.6
412.0
382.6
348.7
359.0
378.6
390.1
376.9
418.9
387.8
315.9
251.4
207.7
172.6
83.4
0.0

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