

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: P947242

Luminaire Tested: **GALN-SB2C-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947242
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-SB2C-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9359 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

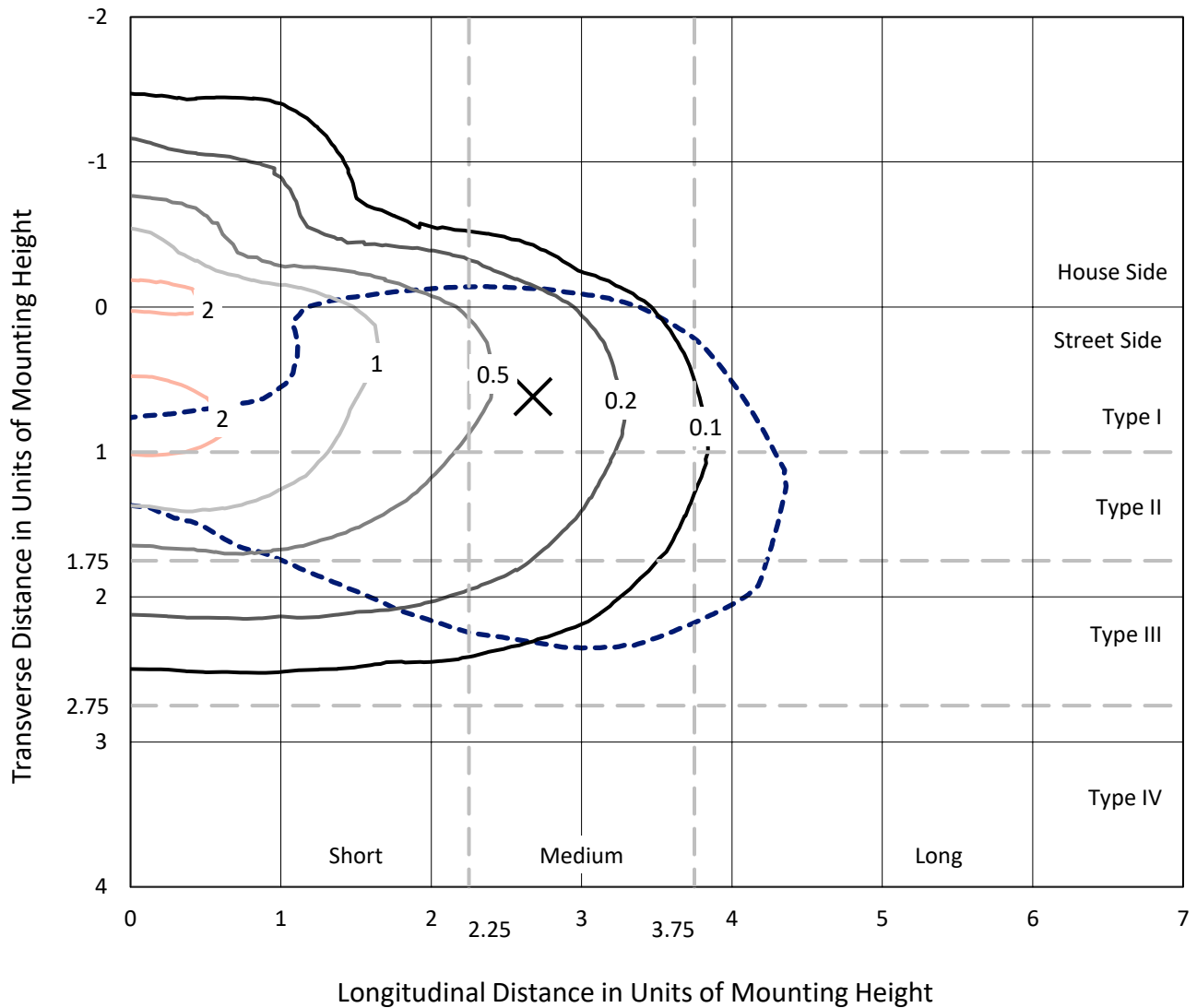
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

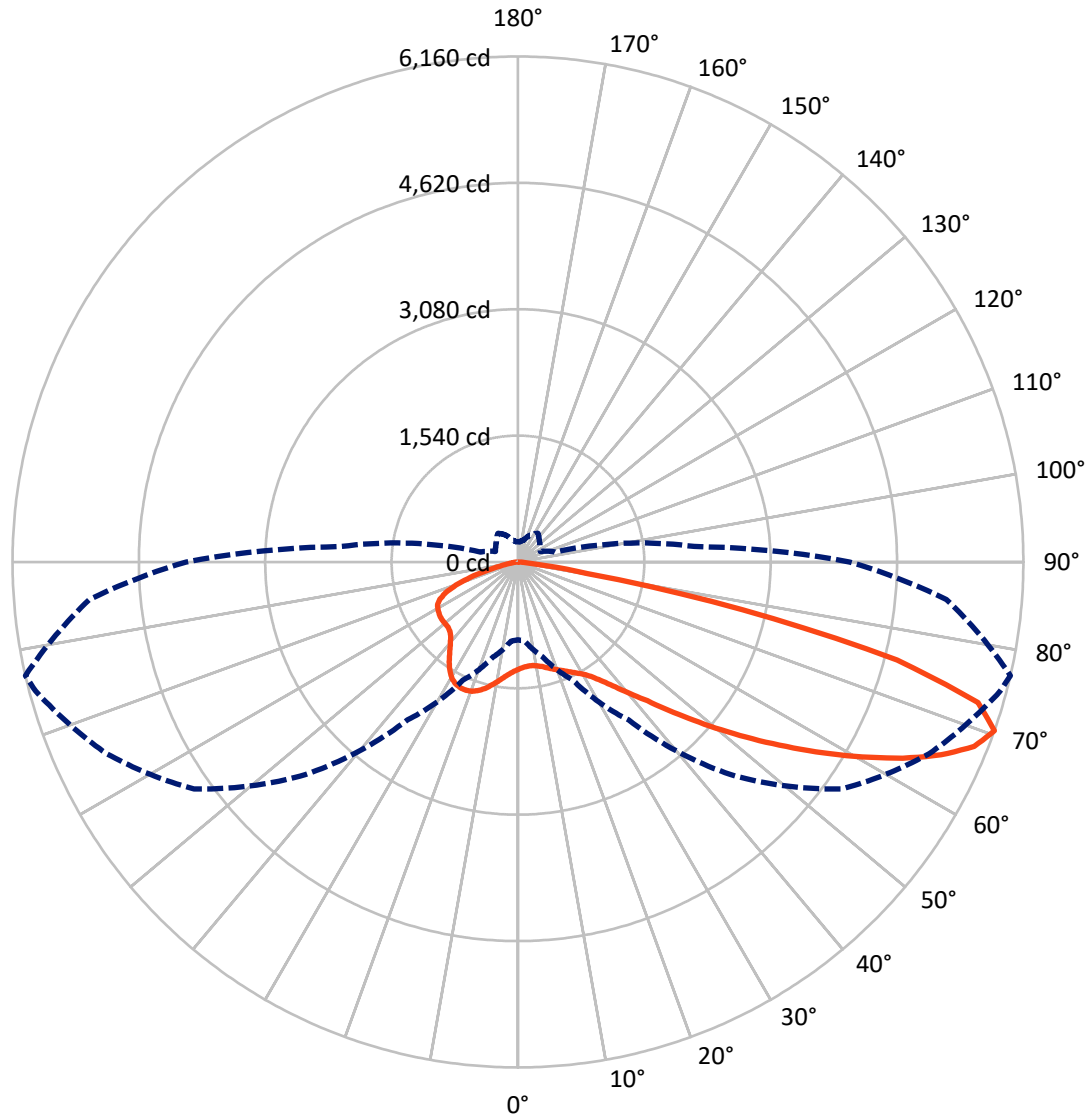
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	2049.5	0.0	2049.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7309.5	0.0	7309.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	9359.0	0.0	9359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.3
10°-20°	359.4	3.8
20°-30°	614.6	6.6
30°-40°	988.4	10.6
40°-50°	1543.1	16.5
50°-60°	2061.2	22.0
60°-70°	2196.9	23.5
70°-80°	1352.4	14.5
80°-90°	118.5	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°	9359.0	100.0
0°-180°	9359.0	100.0

Coefficient of Utilization



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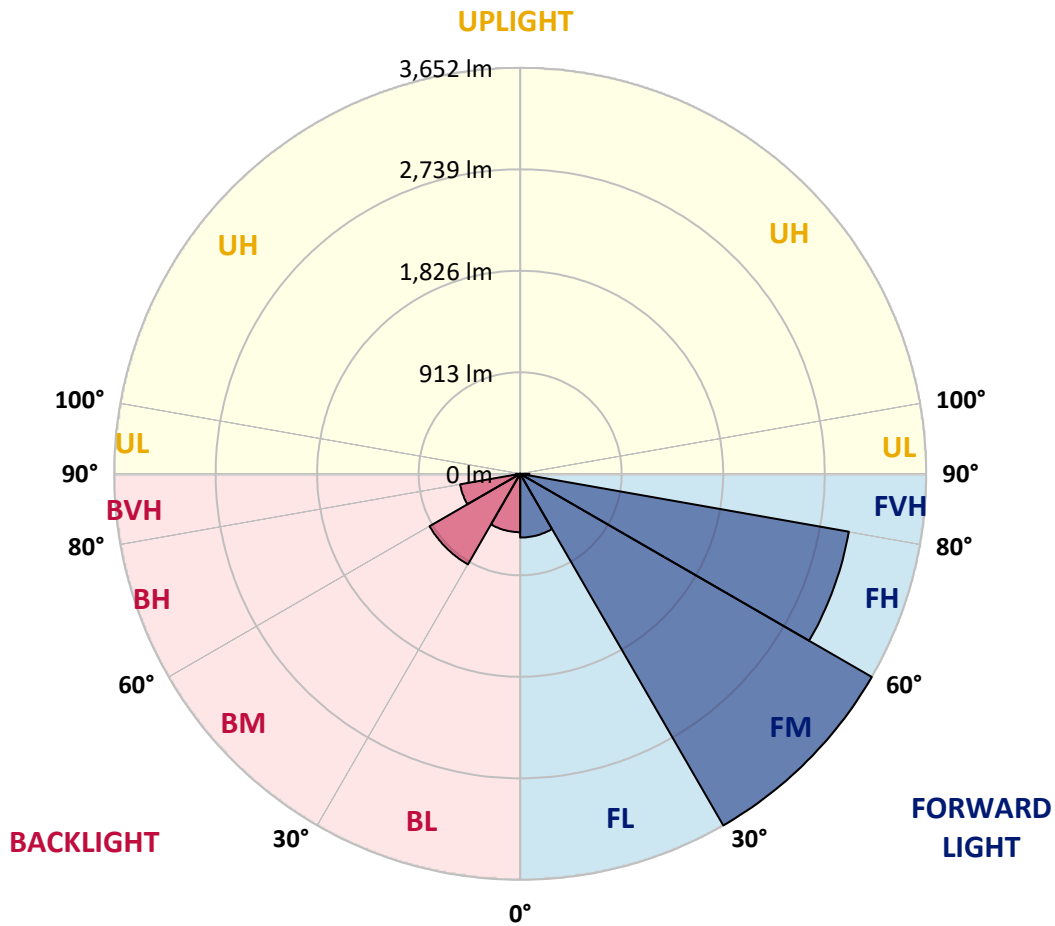
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.4	6.1			
FM (30°-60°)	3651.7	39.0			
FH (60°-80°)	3001.6	32.1			G2/5000
FVH (80°-90°)	82.9	0.9			G1/100
BL (0°-30°)	525.1	5.6	B2/1000		
BM (30°-60°)	941.0	10.1	B1/1000		
BH (60°-80°)	547.7	5.9	B2/1000		G2/1000
BVH (80°-90°)	35.6	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°	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7
2.5°	1203.6	1203.1	1209.3	1211.2	1222.7	1230.9	1246.2	1262.5	1283.6	1286.0
5°	1134.1	1134.1	1141.3	1148.9	1163.8	1180.1	1203.6	1231.9	1268.3	1274.0
7.5°	1075.1	1078.9	1085.2	1100.0	1117.3	1140.8	1176.7	1217.0	1264.9	1274.0
10°	1027.7	1032.0	1039.6	1051.6	1077.5	1110.1	1157.1	1208.8	1273.1	1287.5
12.5°	1012.8	1017.1	1021.4	1030.5	1054.5	1092.8	1148.9	1212.7	1292.7	1307.1
15°	1047.3	1052.6	1049.2	1046.8	1059.3	1094.3	1152.8	1226.6	1317.2	1337.8
17.5°	1126.9	1128.8	1121.1	1098.6	1096.7	1115.4	1171.0	1245.8	1347.8	1370.4
20°	1255.3	1252.0	1236.2	1191.6	1166.2	1162.3	1202.1	1274.5	1379.5	1403.4
22.5°	1429.8	1426.0	1394.3	1323.9	1267.3	1229.9	1247.2	1311.9	1415.0	1441.8
25°	1647.4	1642.1	1595.7	1499.8	1412.1	1319.6	1308.5	1361.3	1458.6	1483.5
27.5°	1901.5	1897.1	1846.8	1720.3	1593.7	1442.3	1384.8	1419.3	1504.1	1532.4
30°	2174.7	2187.1	2098.0	1961.9	1801.8	1602.4	1487.3	1490.7	1563.1	1588.5
32.5°	2495.8	2517.4	2410.0	2237.5	2018.9	1776.4	1616.7	1590.4	1648.9	1669.9
35°	2814.1	2838.5	2749.4	2558.6	2307.0	1981.5	1751.9	1704.9	1762.9	1785.9
37.5°	3089.2	3121.8	3075.8	2909.9	2615.2	2228.8	1928.3	1839.6	1903.4	1932.1
40°	3306.3	3356.2	3352.8	3249.3	2978.5	2528.9	2152.1	2006.0	2077.8	2109.0
42.5°	3482.7	3525.9	3563.3	3558.0	3357.6	2869.7	2415.3	2222.1	2276.8	2312.7
45°	3604.5	3650.5	3731.0	3817.8	3722.4	3234.4	2716.8	2478.6	2528.4	2582.6
47.5°	3713.3	3765.5	3870.0	4007.6	4032.0	3600.6	3047.0	2777.2	2822.7	2878.8
50°	3722.9	3767.9	3929.9	4125.0	4252.0	3952.5	3401.7	3112.2	3154.9	3214.8
52.5°	3491.4	3562.3	3845.1	4121.7	4353.2	4246.8	3754.0	3460.7	3508.6	3580.5
55°	2710.1	2814.1	3596.3	3993.2	4317.2	4437.1	4089.1	3831.2	3892.6	3967.8
57.5°	2334.3	2379.8	2854.8	3759.3	4153.3	4486.4	4371.9	4205.5	4304.3	4386.7
60°	2098.0	2135.8	2416.7	3395.5	3937.6	4408.3	4590.4	4554.5	4725.1	4823.4
62.5°	1844.9	1880.8	2136.3	2835.2	3661.5	4278.4	4728.5	4876.6	5156.5	5263.9
65°	1593.7	1624.4	1869.3	2382.2	3310.7	4148.5	4799.9	5155.1	5555.8	5667.0
67.5°	1313.8	1339.2	1570.7	2009.8	2884.1	3970.7	4835.4	5374.1	5903.3	5998.7
70°	948.1	967.7	1206.9	1589.4	2348.7	3664.9	4821.0	5529.4	6083.5	6159.7
72.5°	448.2	465.9	746.8	1032.0	1658.9	3069.6	4530.0	5406.2	5900.4	5862.6
75°	239.2	254.5	429.0	566.1	876.2	2104.2	3707.1	4657.1	4954.7	4770.7
77.5°	162.0	174.0	265.5	339.8	400.2	998.9	2382.7	3224.4	3102.2	2798.3
80°	128.5	140.9	217.6	230.1	193.6	360.9	984.5	1492.6	1072.2	857.5
82.5°	98.7	112.6	183.1	166.8	105.5	148.1	286.6	472.1	274.6	209.0
85°	60.4	75.3	143.8	106.4	59.4	67.6	97.3	131.3	83.9	70.0
87.5°	30.7	43.1	72.9	38.8	26.8	15.8	25.9	25.9	22.0	19.2
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°
1305.7	0°	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7	1305.7
1299.0	2.5°	1310.5	1320.0	1336.3	1351.7	1363.7	1375.2	1386.7	1392.9	1394.8	1402.5
1306.1	5°	1325.8	1343.5	1375.2	1404.9	1423.6	1435.1	1443.2	1448.0	1449.0	1451.4
1325.8	7.5°	1354.1	1382.4	1426.5	1456.2	1470.1	1469.1	1465.8	1453.8	1449.0	1444.7
1354.6	10°	1393.9	1431.2	1485.4	1506.0	1497.4	1474.4	1444.7	1409.7	1393.4	1377.6
1393.9	12.5°	1443.2	1490.7	1543.9	1542.9	1500.3	1441.3	1372.3	1318.6	1284.6	1260.1
1442.3	15°	1503.1	1557.8	1598.5	1565.9	1472.5	1366.5	1265.4	1195.4	1164.7	1137.9
1491.2	17.5°	1565.0	1623.5	1642.1	1558.7	1402.5	1255.8	1141.3	1086.1	1055.9	1041.6
1543.9	20°	1625.4	1683.4	1668.0	1517.5	1296.1	1130.2	1028.1	997.9	991.7	995.1
1595.2	22.5°	1689.1	1740.9	1673.3	1438.0	1160.4	1001.8	945.7	946.7	960.6	970.6
1648.9	25°	1754.3	1789.3	1659.4	1322.9	1014.7	907.4	893.5	908.8	936.1	955.8
1709.3	27.5°	1817.1	1832.4	1629.2	1180.6	889.6	839.8	842.2	873.8	915.0	942.3
1782.6	30°	1888.0	1870.8	1571.2	1020.5	802.9	781.8	801.9	838.8	880.0	904.5
1875.1	32.5°	1968.1	1903.9	1479.2	872.4	741.5	735.3	768.3	792.3	810.5	817.7
1997.8	35°	2067.8	1950.4	1361.3	768.3	686.4	701.2	732.9	720.9	713.7	709.9
2162.7	37.5°	2197.2	2013.1	1223.2	700.8	641.8	676.8	689.7	652.4	624.1	610.2
2362.6	40°	2353.0	2105.2	1090.5	648.5	613.5	655.7	633.2	588.1	552.2	532.5
2587.4	42.5°	2526.0	2201.5	978.8	609.2	597.7	638.5	591.5	537.8	479.8	473.6
2855.3	45°	2707.7	2300.7	902.6	579.0	590.0	623.6	567.5	480.8	439.5	464.9
3124.2	47.5°	2889.3	2391.8	856.5	556.5	586.2	606.8	546.4	449.1	419.9	456.8
3412.3	50°	3091.6	2473.3	835.9	540.2	581.9	600.1	514.8	441.0	399.3	423.7
3710.4	52.5°	3292.4	2536.6	820.6	523.9	575.7	594.8	499.5	431.4	374.3	375.8
4010.5	55°	3492.8	2577.8	803.8	502.3	561.8	583.3	498.0	420.8	355.7	348.9
4327.8	57.5°	3706.6	2601.3	783.2	478.4	537.8	554.1	496.6	412.7	349.9	338.9
4652.3	60°	3924.2	2635.8	756.4	449.1	505.7	519.1	493.2	409.8	346.5	327.9
4958.1	62.5°	4119.3	2647.8	724.3	421.3	464.5	484.6	486.0	407.4	337.4	305.3
5212.1	65°	4247.2	2596.0	668.2	389.7	419.9	449.1	472.1	399.3	321.1	289.0
5337.7	67.5°	4242.0	2448.4	580.5	348.9	376.7	409.8	452.0	385.4	301.5	268.9
5242.8	70°	4044.5	2156.9	469.3	301.5	329.3	367.6	426.1	364.8	278.0	246.8
4661.9	72.5°	3468.8	1688.2	340.8	245.9	274.2	324.0	392.6	339.8	254.0	227.2
3445.3	75°	2478.1	1068.4	231.0	188.9	213.3	274.6	350.9	310.6	232.0	228.2
1725.5	77.5°	1265.9	510.5	152.9	138.0	148.6	216.7	294.8	277.5	235.3	188.4
490.8	80°	411.7	188.4	96.3	93.9	98.7	144.3	228.2	227.7	178.3	128.0
118.9	82.5°	131.3	81.0	62.8	60.4	58.0	90.6	159.1	180.2	120.3	81.0
42.7	85°	52.2	48.4	36.9	34.0	24.4	42.7	83.4	119.8	89.6	58.5
11.0	87.5°	19.2	19.2	10.1	7.2	5.3	14.4	22.5	35.9	51.3	30.2
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>
1305.7
1406.8
1455.2
1445.6
1372.8
1254.4
1135.0
1045.9
993.6
973.0
961.0
949.1
910.2
821.6
713.7
613.5
534.0
479.8
478.4
474.0
441.9
385.9
353.7
340.3
329.3
305.3
289.0
270.3
249.7
225.8
215.2
167.8
113.1
80.5
59.9
29.7
0.0

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