

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: P947977

Luminaire Tested: **GALN-SB3A-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947977
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-SB3A-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9612 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

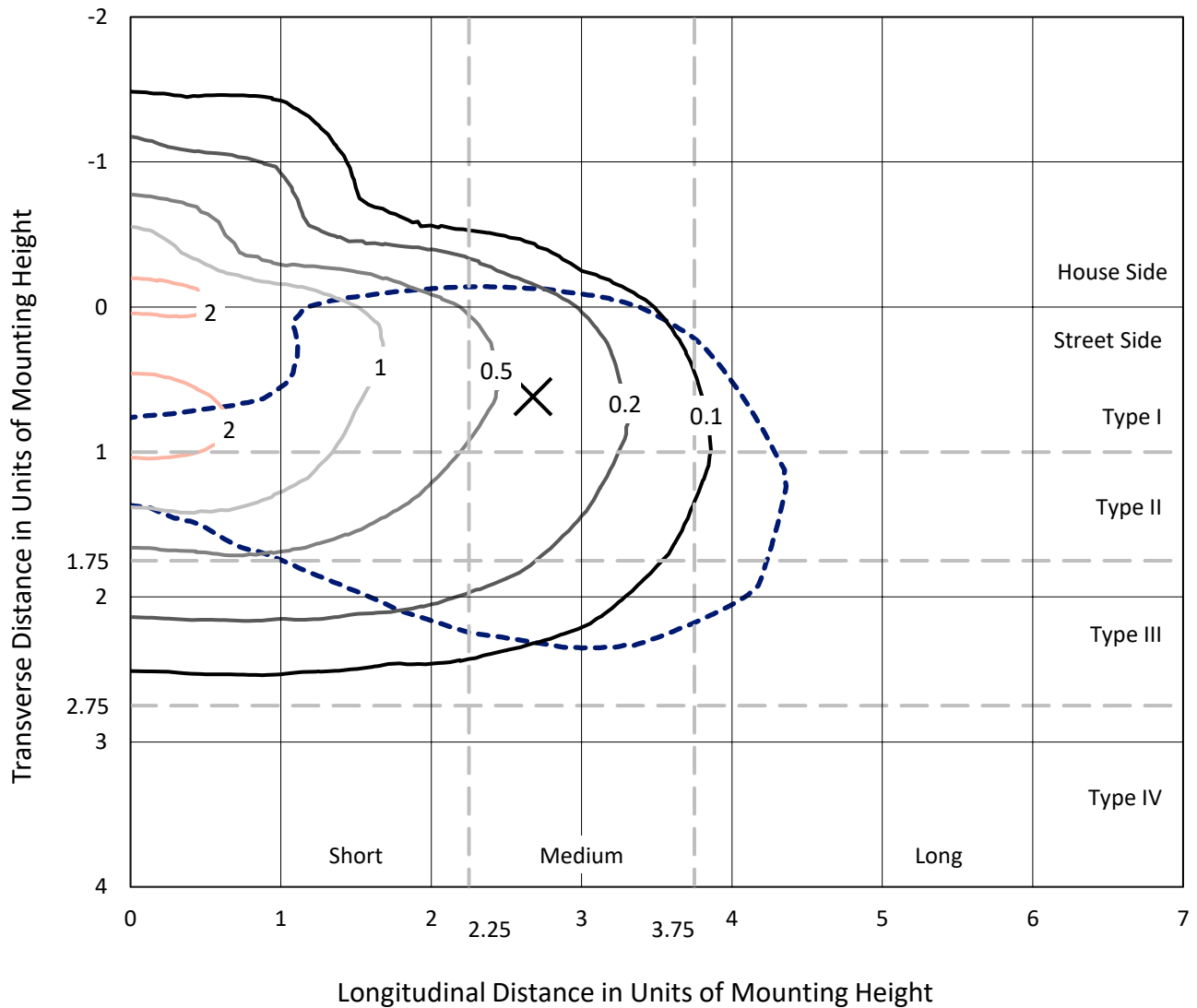
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

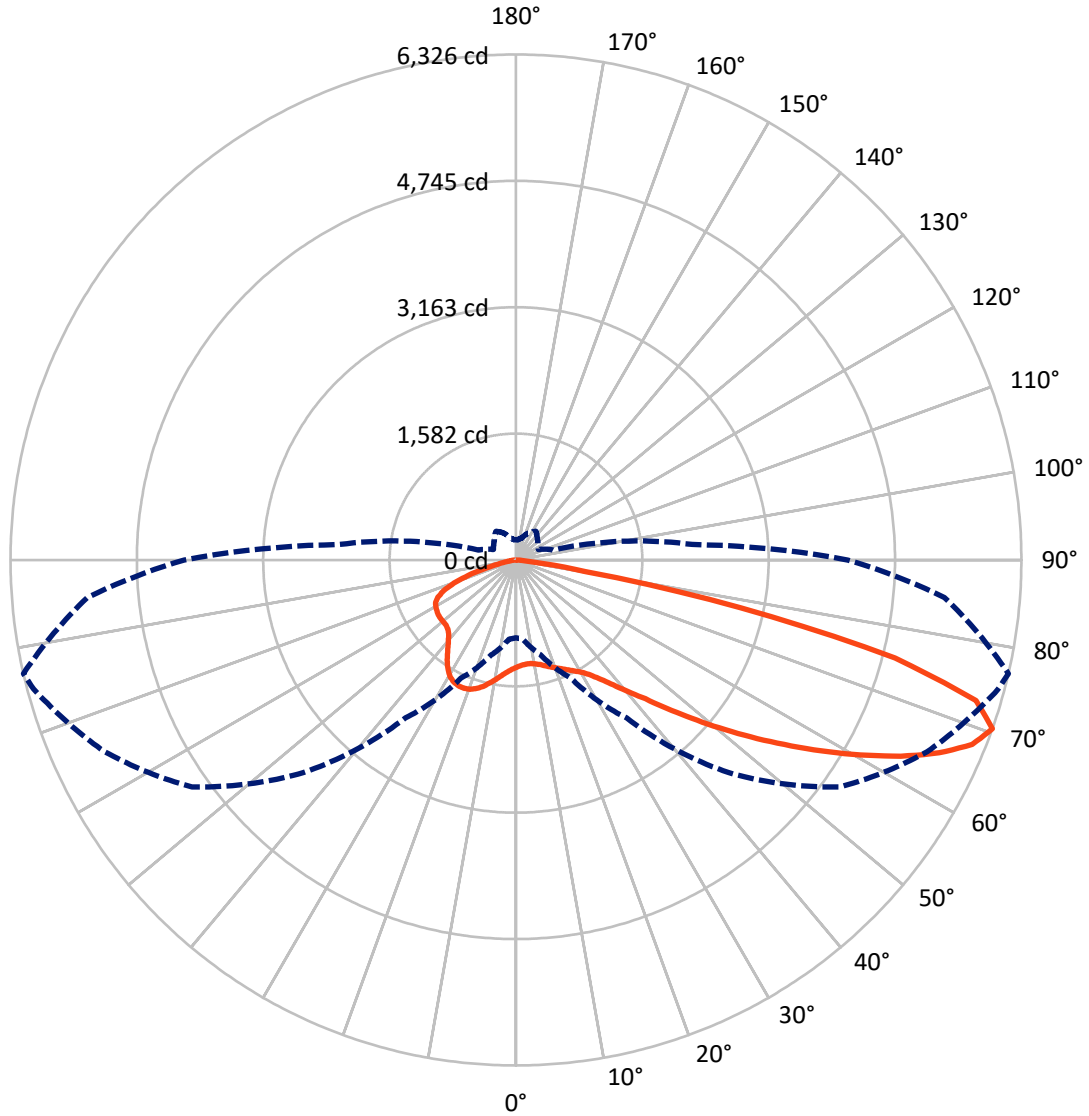
✕ Max cd
 - - - 1/2 Max cd



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	2104.9	0.0	2104.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7507.1	0.0	7507.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	9612.0	0.0	9612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	1.3
10°-20°	369.1	3.8
20°-30°	631.2	6.6
30°-40°	1015.1	10.6
40°-50°	1584.8	16.5
50°-60°	2116.9	22.0
60°-70°	2256.3	23.5
70°-80°	1389.0	14.5
80°-90°	121.7	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°	9612.0	100.0
0°-180°	9612.0	100.0

Coefficient of Utilization



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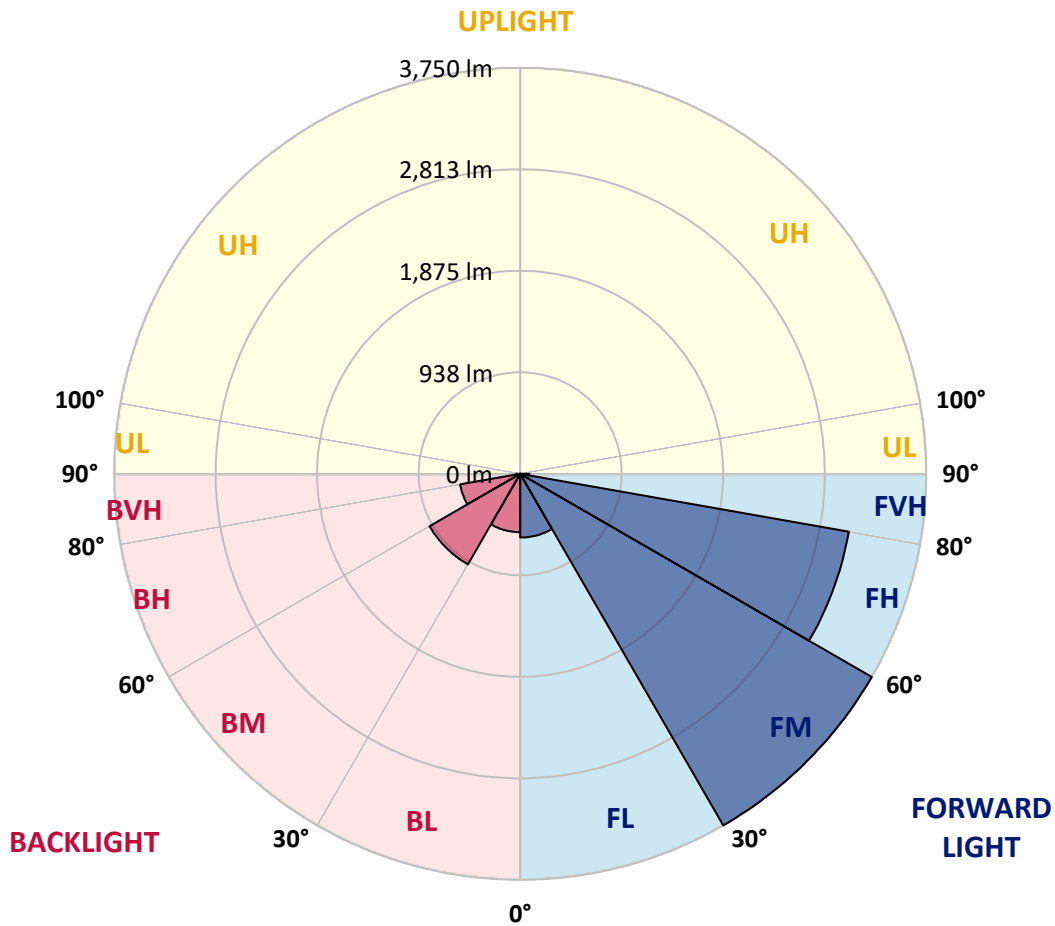
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.9	6.1			
FM (30°-60°)	3750.4	39.0			
FH (60°-80°)	3082.7	32.1			G2/5000
FVH (80°-90°)	85.1	0.9			G1/100
BL (0°-30°)	539.3	5.6	B2/1000		
BM (30°-60°)	966.4	10.1	B1/1000		
BH (60°-80°)	562.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	36.6	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°	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0
2.5°	1236.1	1235.6	1242.0	1244.0	1255.8	1264.2	1279.9	1296.7	1318.3	1320.8
5°	1164.7	1164.7	1172.1	1180.0	1195.2	1212.0	1236.1	1265.2	1302.6	1308.5
7.5°	1104.2	1108.1	1114.5	1129.8	1147.5	1171.6	1208.5	1249.9	1299.1	1308.5
10°	1055.4	1059.9	1067.7	1080.1	1106.6	1140.1	1188.4	1241.5	1307.5	1322.3
12.5°	1040.2	1044.6	1049.0	1058.4	1083.0	1122.4	1180.0	1245.5	1327.7	1342.4
15°	1075.6	1081.0	1077.6	1075.1	1087.9	1123.9	1183.9	1259.7	1352.8	1373.9
17.5°	1157.3	1159.3	1151.4	1128.3	1126.3	1145.5	1202.6	1279.4	1384.3	1407.4
20°	1289.3	1285.8	1269.6	1223.8	1197.7	1193.8	1234.6	1309.0	1416.8	1441.4
22.5°	1468.5	1464.5	1432.0	1359.7	1301.6	1263.2	1280.9	1347.4	1453.2	1480.8
25°	1692.0	1686.5	1638.8	1540.3	1450.2	1355.2	1343.9	1398.1	1498.0	1523.6
27.5°	1952.9	1948.4	1896.7	1766.8	1636.8	1481.3	1422.2	1457.6	1544.8	1573.8
30°	2233.5	2246.3	2154.7	2014.9	1850.5	1645.7	1527.5	1531.0	1605.3	1631.4
32.5°	2563.3	2585.4	2475.2	2297.9	2073.5	1824.4	1660.4	1633.4	1693.4	1715.1
35°	2890.2	2915.3	2823.7	2627.8	2369.3	2035.1	1799.3	1751.0	1810.6	1834.2
37.5°	3172.7	3206.2	3158.9	2988.6	2685.9	2289.1	1980.4	1889.4	1954.8	1984.4
40°	3395.7	3446.9	3443.5	3337.1	3059.0	2597.3	2210.3	2060.2	2134.0	2166.0
42.5°	3576.9	3621.2	3659.6	3654.2	3448.4	2947.3	2480.6	2282.2	2338.3	2375.2
45°	3701.9	3749.2	3831.9	3921.0	3823.0	3321.9	2790.2	2545.6	2596.8	2652.4
47.5°	3813.7	3867.3	3974.6	4115.9	4141.0	3698.0	3129.4	2852.3	2899.0	2956.6
50°	3823.5	3869.8	4036.2	4236.5	4367.0	4059.3	3493.7	3196.4	3240.2	3301.7
52.5°	3585.7	3658.6	3949.0	4233.1	4470.9	4361.6	3855.5	3554.2	3603.5	3677.3
55°	2783.3	2890.2	3693.6	4101.2	4433.9	4557.0	4199.6	3934.8	3997.8	4075.1
57.5°	2397.4	2444.2	2932.0	3860.9	4265.6	4607.7	4490.1	4319.2	4420.6	4505.3
60°	2154.7	2193.6	2482.1	3487.3	4044.1	4527.5	4714.5	4677.6	4852.9	4953.8
62.5°	1894.8	1931.7	2194.1	2911.8	3760.5	4394.1	4856.3	5008.4	5295.9	5406.2
65°	1636.8	1668.3	1919.9	2446.6	3400.2	4260.7	4929.7	5294.4	5706.0	5820.2
67.5°	1349.3	1375.4	1613.2	2064.1	2962.0	4078.0	4966.1	5519.4	6062.9	6160.8
70°	973.7	993.9	1239.6	1632.4	2412.2	3763.9	4951.3	5678.9	6248.0	6326.2
72.5°	460.3	478.5	767.0	1059.9	1703.8	3152.5	4652.5	5552.4	6059.9	6021.0
75°	245.6	261.4	440.6	581.4	899.9	2161.1	3807.3	4783.0	5088.7	4899.6
77.5°	166.4	178.7	272.7	349.0	411.1	1025.9	2447.1	3311.5	3186.0	2873.9
80°	131.9	144.7	223.5	236.3	198.9	370.7	1011.1	1532.9	1101.2	880.7
82.5°	101.4	115.7	188.0	171.3	108.3	152.1	294.4	484.9	282.1	214.6
85°	62.0	77.3	147.7	109.3	61.0	69.4	99.9	134.9	86.1	71.9
87.5°	31.5	44.3	74.8	39.9	27.6	16.2	26.6	26.6	22.6	19.7
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°
1341.0	0°	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0
1334.1	2.5°	1345.9	1355.7	1372.5	1388.2	1400.5	1412.3	1424.2	1430.6	1432.5	1440.4
1341.5	5°	1361.6	1379.9	1412.3	1442.9	1462.1	1473.9	1482.2	1487.2	1488.2	1490.6
1361.6	7.5°	1390.7	1419.7	1465.0	1495.5	1509.8	1508.8	1505.4	1493.1	1488.2	1483.7
1391.2	10°	1431.5	1469.9	1525.6	1546.7	1537.9	1514.2	1483.7	1447.8	1431.0	1414.8
1431.5	12.5°	1482.2	1531.0	1585.6	1584.6	1540.8	1480.3	1409.4	1354.3	1319.3	1294.2
1481.3	15°	1543.8	1599.9	1641.7	1608.3	1512.3	1403.5	1299.6	1227.7	1196.2	1168.7
1531.5	17.5°	1607.3	1667.3	1686.5	1600.9	1440.4	1289.8	1172.1	1115.5	1084.5	1069.7
1585.6	20°	1669.3	1728.9	1713.1	1558.5	1331.1	1160.8	1055.9	1024.9	1018.5	1022.0
1638.3	22.5°	1734.8	1787.9	1718.5	1476.8	1191.8	1028.9	971.3	972.2	986.5	996.9
1693.4	25°	1801.7	1837.7	1704.3	1358.7	1042.1	931.9	917.6	933.4	961.4	981.6
1755.5	27.5°	1866.2	1882.0	1673.2	1212.5	913.7	862.5	864.9	897.4	939.8	967.8
1830.8	30°	1939.1	1921.4	1613.7	1048.1	824.6	802.9	823.6	861.5	903.8	928.9
1925.8	32.5°	2021.3	1955.3	1519.2	895.9	761.6	755.2	789.1	813.7	832.4	839.8
2051.8	35°	2123.7	2003.1	1398.1	789.1	704.9	720.2	752.7	740.4	733.0	729.1
2221.2	37.5°	2256.6	2067.6	1256.3	719.7	659.2	695.1	708.4	670.0	640.9	626.7
2426.4	40°	2416.6	2162.1	1119.9	666.1	630.1	673.4	650.3	604.0	567.1	546.9
2657.3	42.5°	2594.3	2261.0	1005.2	625.7	613.9	655.7	607.5	552.3	492.8	486.4
2932.5	45°	2780.9	2362.9	927.0	594.7	606.0	640.5	582.9	493.8	451.4	477.5
3208.7	47.5°	2967.4	2456.5	879.7	571.5	602.1	623.2	561.2	461.3	431.2	469.1
3504.5	50°	3175.2	2540.1	858.5	554.8	597.6	616.3	528.7	452.9	410.1	435.2
3810.7	52.5°	3381.4	2605.1	842.8	538.1	591.2	610.9	513.0	443.0	384.5	385.9
4118.9	55°	3587.2	2647.5	825.5	515.9	576.9	599.1	511.5	432.2	365.3	358.4
4444.8	57.5°	3806.8	2671.6	804.4	491.3	552.3	569.1	510.0	423.9	359.4	348.0
4778.0	60°	4030.3	2707.0	776.8	461.3	519.4	533.1	506.6	420.9	355.9	336.7
5092.1	62.5°	4230.6	2719.3	743.8	432.7	477.0	497.7	499.2	418.4	346.6	313.6
5353.0	65°	4362.1	2666.2	686.2	400.2	431.2	461.3	484.9	410.1	329.8	296.8
5482.0	67.5°	4356.6	2514.5	596.1	358.4	386.9	420.9	464.2	395.8	309.6	276.2
5384.5	70°	4153.8	2215.2	481.9	309.6	338.2	377.6	437.6	374.6	285.5	253.5
4787.9	72.5°	3562.6	1733.8	350.0	252.5	281.6	332.8	403.2	349.0	260.9	233.3
3538.5	75°	2545.1	1097.3	237.3	194.0	219.1	282.1	360.3	319.0	238.3	234.3
1772.2	77.5°	1300.1	524.3	157.0	141.8	152.6	222.5	302.8	285.0	241.7	193.5
504.1	80°	422.9	193.5	98.9	96.5	101.4	148.2	234.3	233.8	183.1	131.4
122.1	82.5°	134.9	83.2	64.5	62.0	59.6	93.0	163.4	185.1	123.6	83.2
43.8	85°	53.7	49.7	37.9	35.0	25.1	43.8	85.7	123.1	92.1	60.1
11.3	87.5°	19.7	19.7	10.3	7.4	5.4	14.8	23.1	36.9	52.7	31.0
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>
1341.0
1444.8
1494.6
1484.7
1409.9
1288.3
1165.7
1074.1
1020.5
999.3
987.0
974.7
934.8
843.8
733.0
630.1
548.4
492.8
491.3
486.9
453.9
396.3
363.3
349.5
338.2
313.6
296.8
277.6
256.5
231.9
221.0
172.3
116.2
82.7
61.5
30.5
0.0

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