

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: P940232

Luminaire Tested: **GALN-SB3A-950-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-950-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

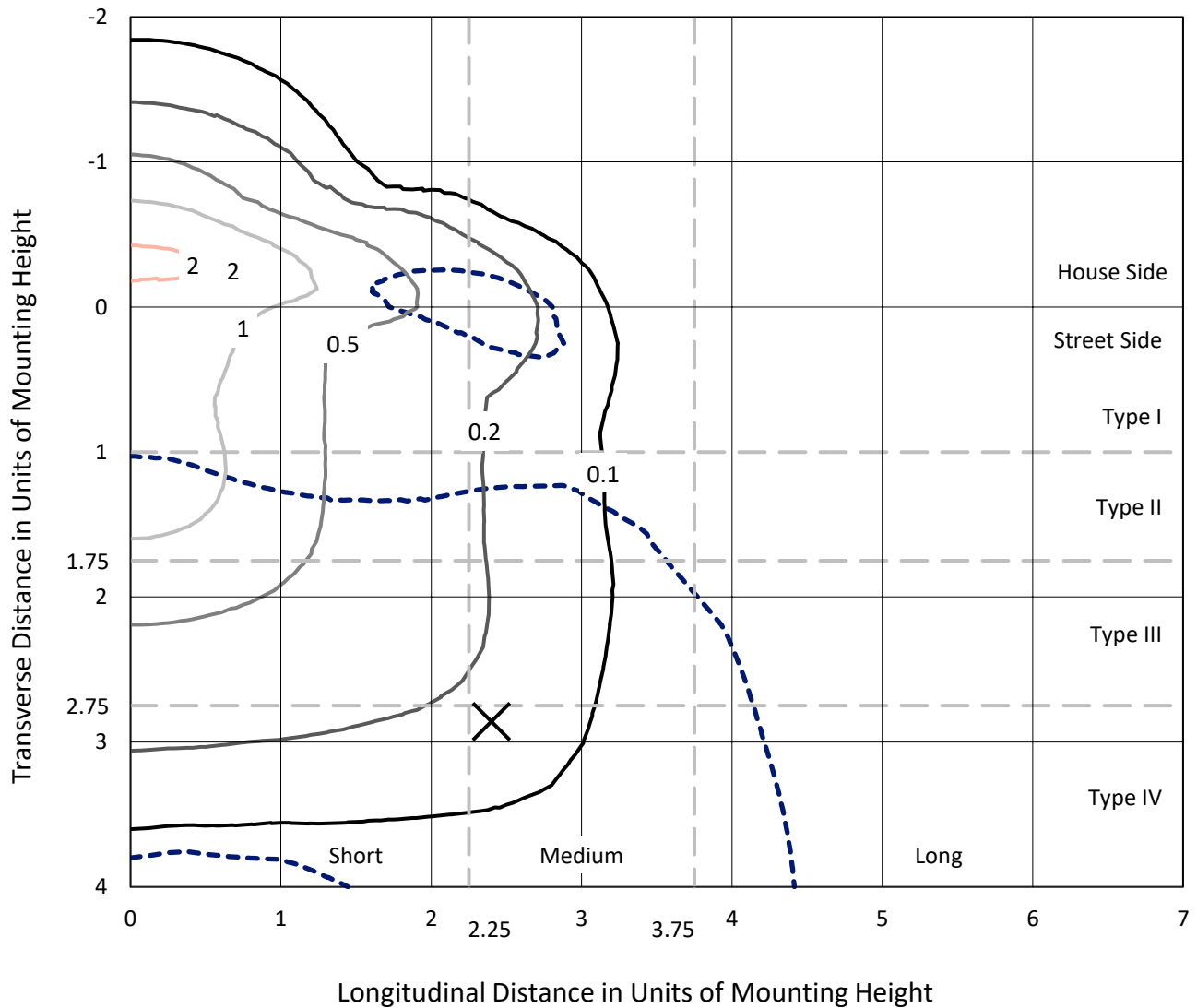
Lumens per Lamp: N/A  
Luminaire Lumens: 9281 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

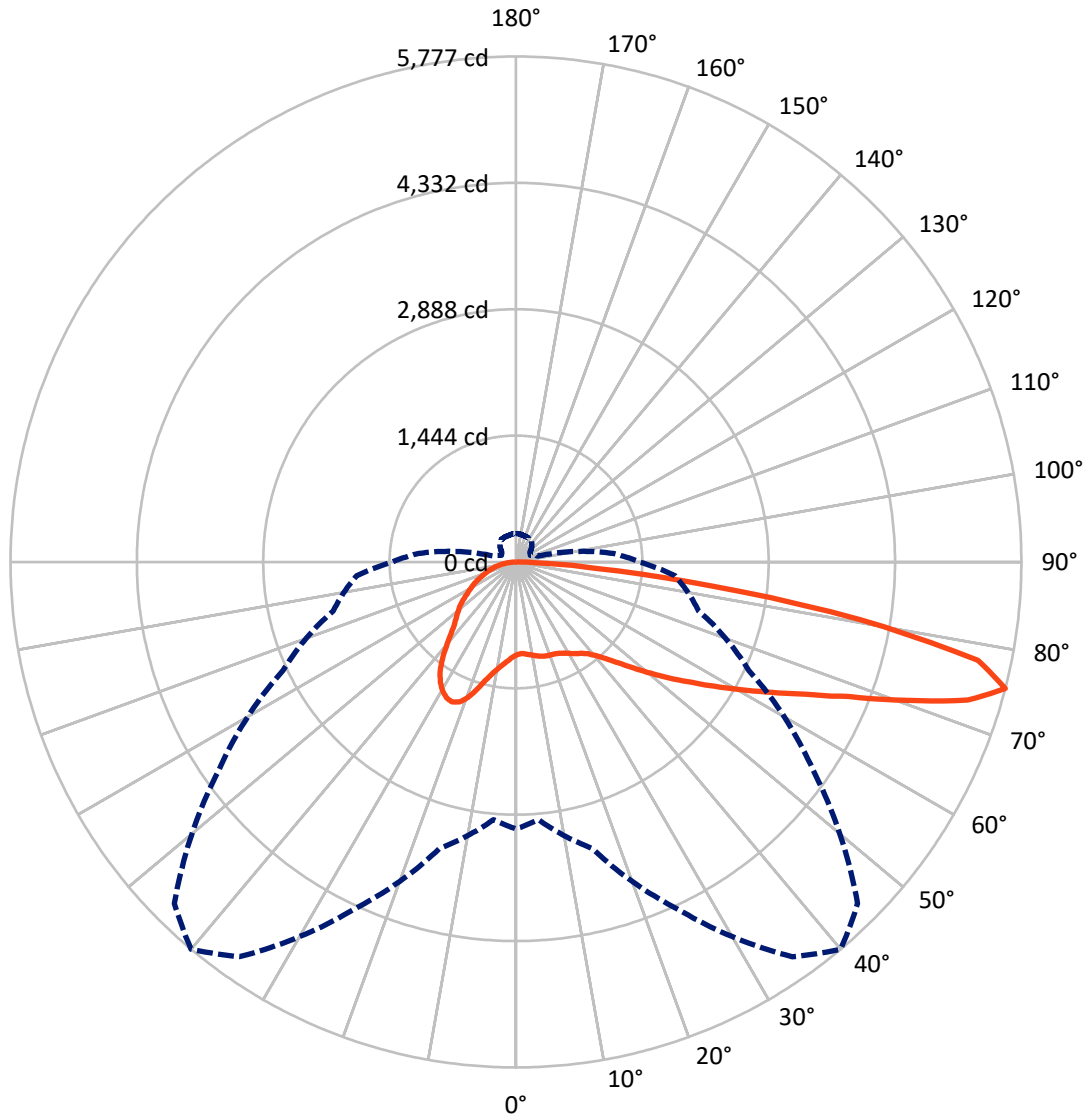
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2875.6	0.0	2875.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	6405.4	0.0	6405.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	9281.0	0.0	9281.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.9	1.1
10°-20°	355.7	3.8
20°-30°	649.4	7.0
30°-40°	921.1	9.9
40°-50°	1243.7	13.4
50°-60°	1673.2	18.0
60°-70°	2123.6	22.9
70°-80°	1927.3	20.8
80°-90°	280.9	3.0
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°	9281.0	100.0
0°-180°	9281.0	100.0

**Coefficient of Utilization**



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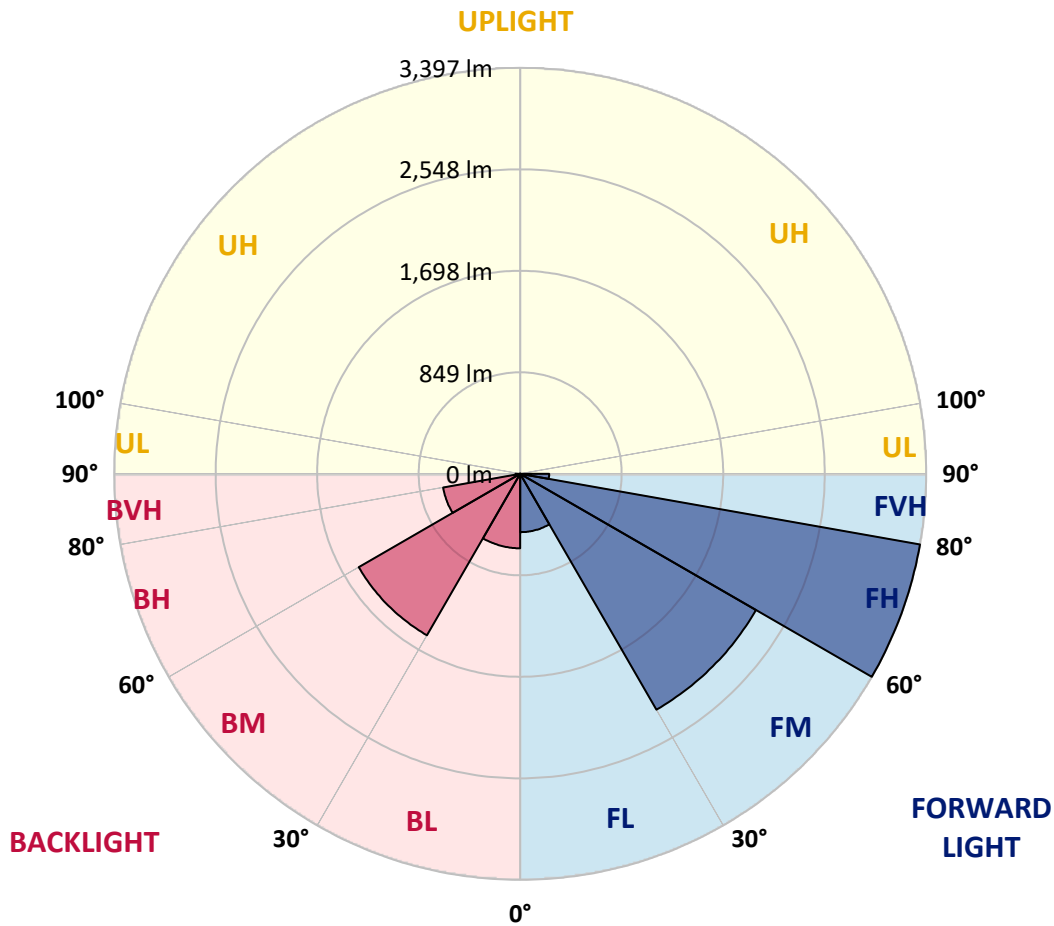
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	488.2	5.3			
FM (30°-60°)	2278.3	24.5			
FH (60°-80°)	3396.7	36.6			G2/5000
FVH (80°-90°)	242.3	2.6			G3/500
BL (0°-30°)	622.9	6.7	B2/1000		
BM (30°-60°)	1559.7	16.8	B2/2500		
BH (60°-80°)	654.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	38.7	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-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1045.1	1051.0	1049.5	1047.5	1047.5	1048.0	1047.5	1051.0	1054.4	1057.8
5°	1055.9	1061.8	1058.8	1056.4	1054.4	1053.9	1052.4	1051.9	1053.9	1058.3
7.5°	1077.0	1083.0	1078.5	1074.1	1070.2	1068.2	1066.2	1063.3	1061.8	1064.2
10°	1100.7	1106.6	1101.2	1093.3	1086.9	1084.4	1082.5	1079.5	1077.5	1079.0
12.5°	1124.3	1130.2	1122.8	1112.0	1103.6	1102.2	1099.7	1098.7	1098.2	1097.7
15°	1146.5	1151.4	1142.0	1129.2	1120.4	1117.9	1115.4	1116.9	1119.4	1122.3
17.5°	1163.7	1168.6	1154.8	1138.1	1129.7	1128.7	1127.3	1132.2	1139.1	1146.5
20°	1179.4	1184.4	1166.6	1144.0	1134.1	1134.1	1134.6	1145.0	1154.8	1165.7
22.5°	1201.6	1205.5	1183.9	1152.9	1138.6	1139.6	1143.5	1153.8	1166.1	1180.9
25°	1234.6	1237.5	1210.9	1169.6	1153.3	1156.3	1159.7	1164.7	1176.5	1193.7
27.5°	1287.7	1290.2	1255.2	1199.1	1174.5	1179.4	1184.4	1180.9	1186.3	1201.1
30°	1362.6	1364.0	1319.7	1245.4	1210.4	1212.9	1213.9	1199.6	1189.3	1201.1
32.5°	1451.2	1450.7	1398.0	1301.5	1251.3	1248.8	1240.5	1212.4	1188.3	1198.6
35°	1588.5	1583.1	1515.2	1380.3	1297.6	1282.3	1262.6	1226.7	1193.2	1196.2
37.5°	1815.9	1799.2	1705.2	1509.2	1366.5	1327.6	1298.6	1249.8	1204.0	1195.2
40°	2072.4	2051.2	1947.8	1686.0	1469.9	1407.3	1360.6	1282.8	1221.8	1199.6
42.5°	2376.6	2346.6	2235.3	1894.2	1600.8	1510.2	1439.8	1324.6	1247.9	1213.9
45°	2750.2	2710.3	2552.8	2129.0	1765.7	1645.1	1551.1	1388.1	1287.7	1241.5
47.5°	3127.8	3137.6	2913.6	2397.8	1963.6	1811.5	1690.4	1483.6	1345.8	1285.8
50°	3529.0	3535.8	3272.5	2695.6	2188.1	1999.5	1846.9	1590.5	1426.5	1348.8
52.5°	3842.0	3843.0	3598.4	3007.2	2421.9	2206.3	2015.8	1712.5	1520.1	1432.5
55°	4037.9	4035.5	3826.8	3302.0	2690.6	2423.4	2202.8	1851.4	1634.3	1530.9
57.5°	4180.2	4172.8	3984.3	3555.5	2977.1	2679.8	2414.5	2008.9	1769.2	1648.1
60°	4234.3	4229.9	4091.1	3774.6	3278.4	2963.4	2658.7	2185.1	1922.2	1786.4
62.5°	4255.0	4263.4	4196.0	3986.7	3600.8	3277.4	2926.9	2395.8	2094.5	1942.9
65°	4327.9	4343.1	4329.4	4264.4	3965.1	3645.1	3282.8	2646.3	2282.6	2110.8
67.5°	4472.1	4487.4	4493.3	4596.6	4410.1	4103.4	3726.8	2958.4	2502.6	2285.0
70°	4468.7	4464.2	4568.6	4861.0	4967.3	4737.9	4325.4	3342.4	2765.0	2429.8
72.5°	4067.5	4032.0	4278.7	4858.0	5431.0	5400.5	5056.4	3837.6	2991.4	2447.5
75°	3051.5	2957.0	3392.6	4378.1	5508.3	5776.6	5521.1	4144.8	2937.8	2162.5
77.5°	1305.0	1210.0	1723.4	3241.0	4929.9	5400.0	5094.8	3616.1	2345.1	1430.0
80°	341.6	341.1	520.8	1469.4	3352.7	3987.7	3498.4	2335.2	1339.9	511.0
82.5°	141.3	137.8	191.5	571.5	1638.2	2237.8	1826.3	1041.6	483.9	138.3
85°	52.7	52.2	93.0	197.4	577.9	923.0	668.0	266.3	120.6	67.4
87.5°	14.8	14.3	20.2	68.4	140.8	213.6	114.2	43.8	34.0	26.6
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°
1061.3	0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
1063.3	2.5°	1064.7	1067.2	1071.6	1075.1	1079.5	1084.4	1091.3	1095.8	1100.2	1103.1
1065.7	5°	1069.2	1074.6	1085.9	1097.2	1110.5	1122.8	1137.1	1147.4	1155.8	1158.3
1074.6	7.5°	1079.0	1087.9	1107.1	1126.3	1147.4	1167.6	1188.3	1206.0	1220.3	1225.7
1090.3	10°	1096.2	1108.1	1135.1	1162.2	1190.3	1221.3	1247.9	1273.5	1293.6	1302.0
1109.0	12.5°	1117.9	1132.7	1168.1	1205.5	1244.4	1287.2	1321.7	1353.2	1378.3	1389.6
1135.1	15°	1146.0	1165.2	1210.4	1260.7	1317.8	1377.3	1421.1	1456.1	1484.1	1497.9
1162.2	17.5°	1176.5	1202.1	1259.2	1335.0	1416.7	1495.0	1546.2	1571.8	1600.8	1614.1
1187.3	20°	1206.0	1237.5	1319.2	1429.5	1538.3	1621.5	1662.8	1669.7	1671.7	1673.2
1210.9	22.5°	1236.5	1278.9	1394.5	1548.6	1665.3	1722.9	1728.8	1699.3	1657.9	1638.7
1234.1	25°	1270.0	1326.1	1493.0	1680.1	1774.6	1781.5	1736.2	1664.3	1586.0	1550.1
1252.8	27.5°	1302.5	1380.8	1611.1	1805.6	1853.3	1792.8	1695.3	1593.4	1498.9	1461.0
1266.1	30°	1335.0	1443.3	1741.6	1915.4	1889.3	1764.7	1630.8	1517.1	1422.1	1382.2
1277.9	32.5°	1368.0	1516.1	1891.7	1994.6	1882.9	1705.2	1550.6	1431.5	1347.8	1305.9
1288.2	35°	1405.4	1605.7	2034.0	2037.9	1840.0	1617.5	1444.8	1329.1	1256.2	1222.8
1300.5	37.5°	1454.1	1719.4	2159.5	2048.8	1765.2	1489.1	1313.3	1208.0	1147.9	1132.7
1318.7	40°	1514.7	1856.3	2255.5	2031.5	1654.5	1333.0	1169.6	1085.4	1051.4	1054.9
1343.4	42.5°	1593.4	2009.4	2322.9	1987.2	1500.4	1172.1	1043.6	1006.2	1022.4	1036.2
1380.3	45°	1695.8	2168.4	2364.8	1911.9	1326.1	1035.7	969.2	978.1	990.4	991.9
1439.8	47.5°	1826.7	2329.3	2392.3	1798.2	1148.4	939.7	922.0	924.0	921.5	911.2
1528.9	50°	1990.2	2485.9	2417.0	1647.6	997.3	879.7	856.0	849.1	815.2	781.7
1647.6	52.5°	2176.2	2629.6	2427.3	1460.5	879.7	829.4	791.0	747.7	684.2	673.9
1796.7	55°	2383.0	2762.5	2400.7	1230.6	780.7	765.0	706.9	654.7	647.8	638.9
1993.1	57.5°	2630.1	2905.8	2346.6	974.2	679.3	689.6	633.0	638.9	626.6	612.9
2245.7	60°	2900.3	3053.9	2251.6	740.3	574.5	595.6	613.8	613.3	609.9	598.6
2512.0	62.5°	3143.5	3151.4	2064.5	567.1	482.4	522.8	572.5	572.0	569.0	562.6
2790.1	65°	3288.2	3136.6	1752.4	446.5	406.6	462.7	516.4	520.3	520.8	520.3
2999.3	67.5°	3262.6	2963.8	1324.2	355.4	344.1	401.7	460.7	466.2	470.1	471.1
3025.9	70°	2973.2	2584.3	863.4	283.5	288.5	348.0	408.1	413.5	416.9	420.9
2625.7	72.5°	2317.5	1900.1	494.2	229.4	239.7	301.8	355.9	362.3	364.3	371.7
1827.2	75°	1412.3	1117.4	266.8	180.7	196.9	257.9	304.2	311.6	315.0	323.9
897.4	77.5°	671.4	483.9	152.1	140.8	158.5	210.7	257.0	265.3	256.0	260.9
247.6	80°	226.9	179.7	96.0	107.3	121.1	164.4	205.8	214.1	194.4	193.5
82.2	82.5°	79.3	72.9	61.0	71.4	78.3	117.6	155.6	166.4	144.7	144.2
36.9	85°	31.0	29.5	34.0	38.9	46.8	72.4	102.4	107.8	89.1	71.9
10.8	87.5°	6.4	6.9	8.4	8.9	14.3	25.1	36.9	45.3	35.9	30.5
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>
1061.3
1101.2
1159.3
1226.2
1302.5
1389.6
1496.9
1613.6
1677.1
1644.1
1555.5
1465.4
1386.7
1311.4
1230.1
1143.5
1066.7
1049.0
1001.7
919.0
786.1
677.3
640.4
610.4
594.6
560.2
520.3
472.1
422.8
374.6
324.9
257.0
191.5
137.3
70.9
28.1
0.0

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