

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: P939322

Luminaire Tested: **GALN-SB1D-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939322
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-SB1D-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9652 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

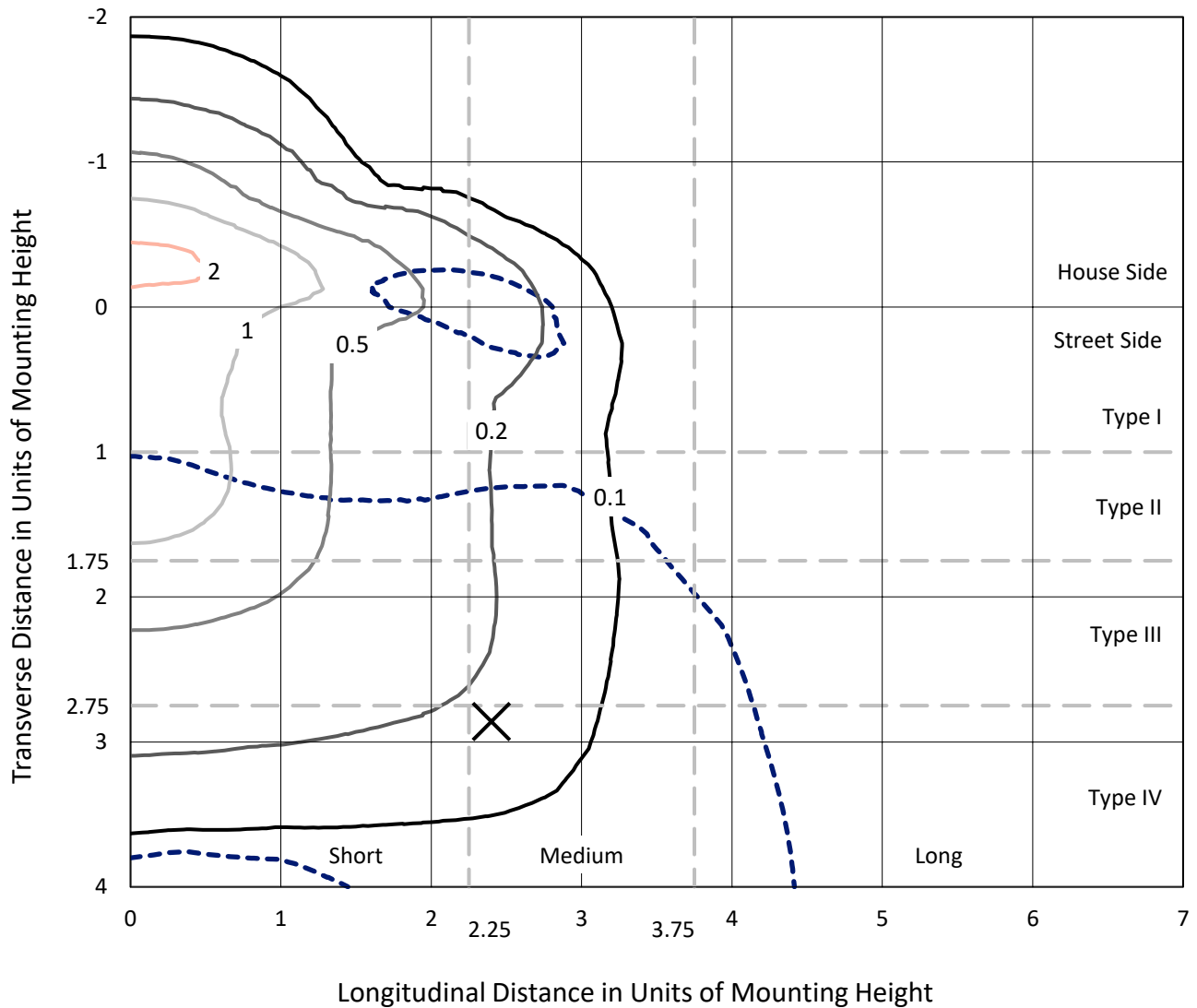
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

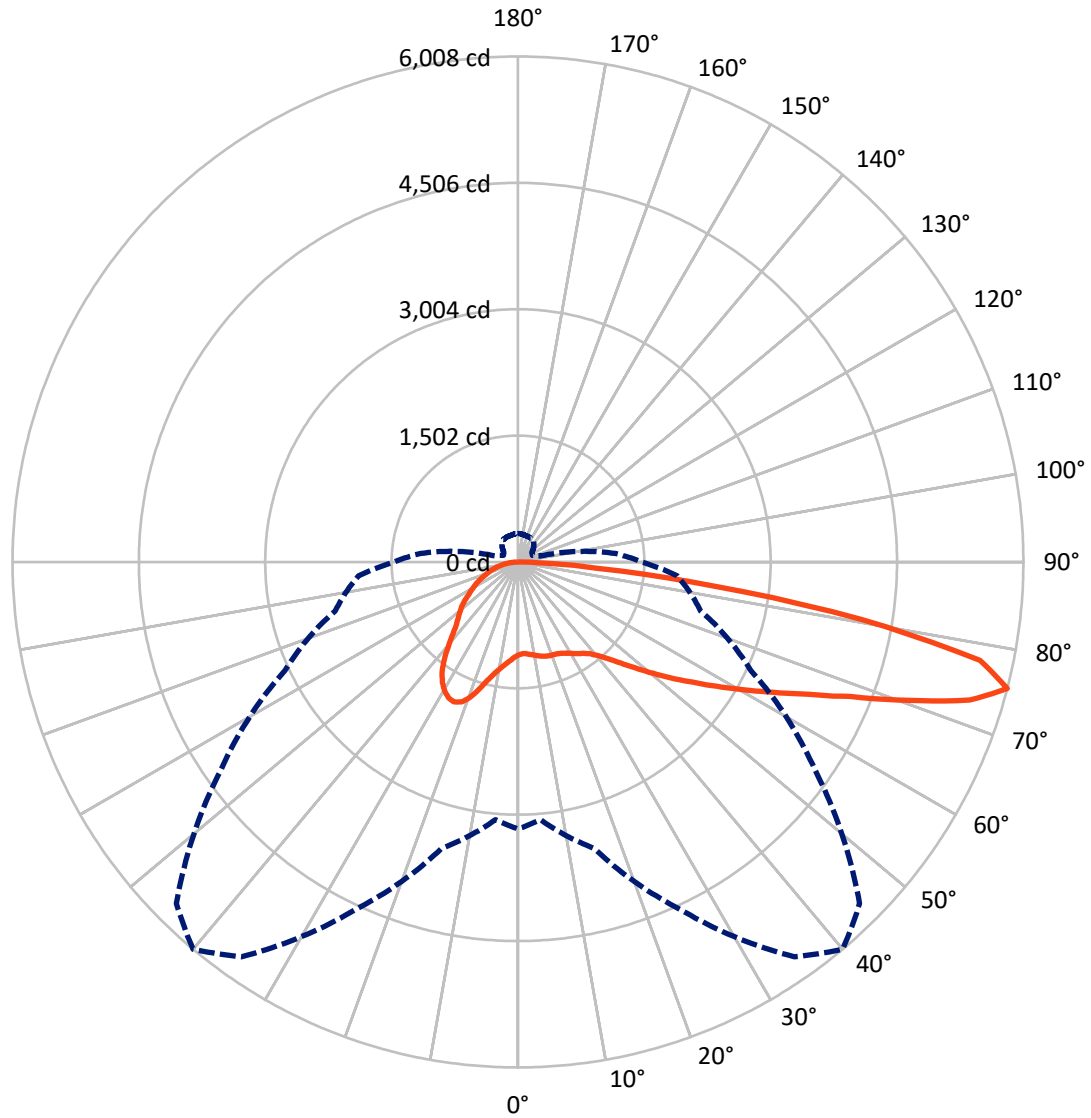
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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
House Side	Lumens	2990.5	0.0	2990.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6661.5	0.0	6661.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	9652.0	0.0	9652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	1.1
10°-20°	369.9	3.8
20°-30°	675.4	7.0
30°-40°	957.9	9.9
40°-50°	1293.5	13.4
50°-60°	1740.1	18.0
60°-70°	2208.5	22.9
70°-80°	2004.4	20.8
80°-90°	292.2	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°	9652.0	100.0
0°-180°	9652.0	100.0

Coefficient of Utilization



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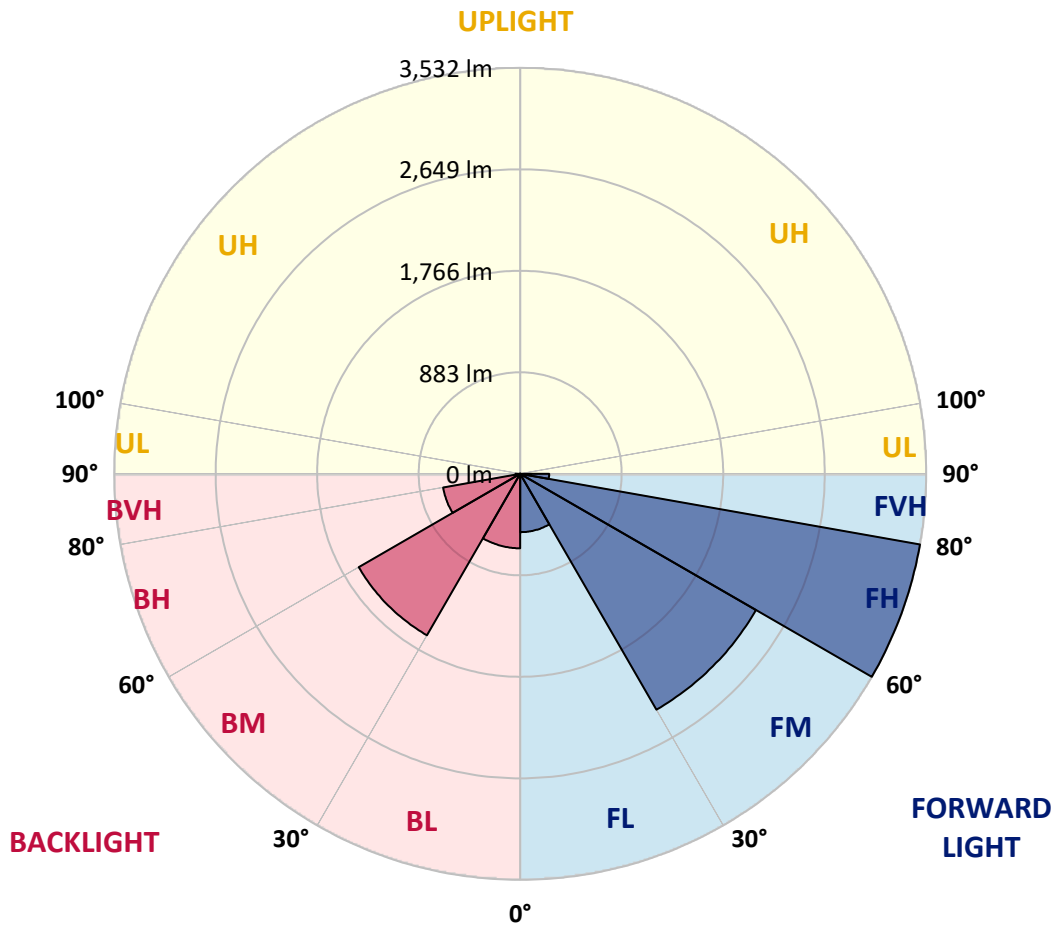
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.7	5.3			
FM (30°-60°)	2369.4	24.5			
FH (60°-80°)	3532.5	36.6			G2/5000
FVH (80°-90°)	252.0	2.6			G3/500
BL (0°-30°)	647.8	6.7	B2/1000		
BM (30°-60°)	1622.1	16.8	B2/2500		
BH (60°-80°)	680.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	40.2	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°	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7
2.5°	1086.8	1093.0	1091.4	1089.4	1089.4	1089.9	1089.4	1093.0	1096.6	1100.1
5°	1098.1	1104.2	1101.2	1098.6	1096.6	1096.0	1094.5	1094.0	1096.0	1100.6
7.5°	1120.1	1126.2	1121.6	1117.0	1112.9	1110.9	1108.8	1105.8	1104.2	1106.8
10°	1144.7	1150.8	1145.2	1137.0	1130.3	1127.8	1125.7	1122.7	1120.6	1122.1
12.5°	1169.2	1175.4	1167.7	1156.4	1147.7	1146.2	1143.6	1142.6	1142.1	1141.6
15°	1192.3	1197.4	1187.7	1174.4	1165.2	1162.6	1160.0	1161.6	1164.1	1167.2
17.5°	1210.2	1215.3	1201.0	1183.6	1174.9	1173.9	1172.3	1177.4	1184.6	1192.3
20°	1226.6	1231.7	1213.3	1189.7	1179.5	1179.5	1180.0	1190.7	1201.0	1212.2
22.5°	1249.6	1253.7	1231.2	1198.9	1184.1	1185.1	1189.2	1200.0	1212.8	1228.1
25°	1283.9	1287.0	1259.3	1216.3	1199.4	1202.5	1206.1	1211.2	1223.5	1241.4
27.5°	1339.2	1341.8	1305.4	1247.1	1221.5	1226.6	1231.7	1228.1	1233.7	1249.1
30°	1417.0	1418.6	1372.5	1295.2	1258.8	1261.4	1262.4	1247.6	1236.8	1249.1
32.5°	1509.2	1508.7	1453.9	1353.5	1301.3	1298.8	1290.1	1260.9	1235.8	1246.5
35°	1652.0	1646.4	1575.7	1435.4	1349.4	1333.6	1313.1	1275.7	1240.9	1244.0
37.5°	1888.5	1871.1	1773.3	1569.6	1421.1	1380.7	1350.5	1299.8	1252.2	1243.0
40°	2155.2	2133.2	2025.7	1753.4	1528.6	1463.6	1415.0	1334.1	1270.6	1247.6
42.5°	2471.6	2440.4	2324.7	1969.9	1664.8	1570.6	1497.4	1377.6	1297.7	1262.4
45°	2860.1	2818.7	2654.9	2214.1	1836.3	1710.9	1613.1	1443.6	1339.2	1291.1
47.5°	3252.8	3263.0	3030.1	2493.6	2042.1	1883.9	1758.0	1543.0	1399.6	1337.2
50°	3670.0	3677.2	3403.3	2803.3	2275.5	2079.5	1920.8	1654.0	1483.6	1402.7
52.5°	3995.6	3996.6	3742.2	3127.4	2518.7	2294.5	2096.3	1781.0	1580.8	1489.7
55°	4199.4	4196.8	3979.7	3434.0	2798.2	2520.2	2290.9	1925.4	1699.6	1592.1
57.5°	4347.3	4339.6	4143.6	3697.7	3096.1	2786.9	2511.0	2089.2	1839.9	1713.9
60°	4403.6	4399.0	4254.6	3925.5	3409.4	3081.8	2764.9	2272.5	1999.1	1857.8
62.5°	4425.1	4433.8	4363.7	4146.1	3744.8	3408.4	3043.9	2491.6	2178.3	2020.6
65°	4500.9	4516.8	4502.4	4434.8	4123.6	3790.8	3414.1	2752.1	2373.8	2195.2
67.5°	4650.9	4666.7	4672.9	4780.4	4586.4	4267.4	3875.8	3076.7	2602.6	2376.4
70°	4647.3	4642.7	4751.2	5055.3	5165.9	4927.3	4498.3	3476.0	2875.5	2526.9
72.5°	4230.1	4193.2	4449.7	5052.2	5648.1	5616.4	5258.5	3991.0	3111.0	2545.3
75°	3173.4	3075.2	3528.2	4553.1	5728.5	6007.5	5741.8	4310.4	3055.2	2248.9
77.5°	1357.1	1258.3	1792.3	3370.5	5127.0	5615.9	5298.5	3760.6	2438.8	1487.2
80°	355.3	354.8	541.6	1528.1	3486.7	4147.1	3638.3	2428.6	1393.5	531.4
82.5°	146.9	143.3	199.1	594.3	1703.7	2327.2	1899.3	1083.2	503.2	143.9
85°	54.8	54.3	96.8	205.3	601.0	959.9	694.7	277.0	125.4	70.1
87.5°	15.4	14.8	21.0	71.2	146.4	222.2	118.8	45.6	35.3	27.6
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°
1103.7	0°	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7
1105.8	2.5°	1107.3	1109.9	1114.5	1118.1	1122.7	1127.8	1134.9	1139.6	1144.2	1147.2
1108.3	5°	1111.9	1117.5	1129.3	1141.1	1154.9	1167.7	1182.6	1193.3	1202.0	1204.6
1117.5	7.5°	1122.1	1131.4	1151.3	1171.3	1193.3	1214.3	1235.8	1254.2	1269.1	1274.7
1133.9	10°	1140.1	1152.4	1180.5	1208.7	1237.8	1270.1	1297.7	1324.4	1345.3	1354.1
1153.4	12.5°	1162.6	1177.9	1214.8	1253.7	1294.2	1338.7	1374.5	1407.3	1433.4	1445.2
1180.5	15°	1191.8	1211.7	1258.8	1311.1	1370.4	1432.4	1477.9	1514.3	1543.5	1557.8
1208.7	17.5°	1223.5	1250.1	1309.5	1388.4	1473.3	1554.7	1608.0	1634.6	1664.8	1678.6
1234.8	20°	1254.2	1287.0	1372.0	1486.6	1599.8	1686.3	1729.3	1736.5	1738.5	1740.0
1259.3	22.5°	1286.0	1330.0	1450.3	1610.5	1731.9	1791.8	1797.9	1767.2	1724.2	1704.2
1283.4	25°	1320.8	1379.1	1552.7	1747.2	1845.5	1852.7	1805.6	1730.8	1649.4	1612.1
1302.9	27.5°	1354.6	1436.0	1675.5	1877.8	1927.4	1864.4	1763.1	1657.1	1558.8	1519.4
1316.7	30°	1388.4	1501.0	1811.2	1991.9	1964.8	1835.3	1696.0	1577.8	1479.0	1437.5
1329.0	32.5°	1422.7	1576.7	1967.3	2074.3	1958.1	1773.3	1612.6	1488.7	1401.7	1358.1
1339.7	35°	1461.6	1669.9	2115.3	2119.4	1913.6	1682.2	1502.5	1382.2	1306.4	1271.6
1352.5	37.5°	1512.2	1788.2	2245.8	2130.6	1835.8	1548.6	1365.8	1256.3	1193.8	1177.9
1371.5	40°	1575.2	1930.5	2345.7	2112.7	1720.6	1386.3	1216.3	1128.8	1093.5	1097.1
1397.1	42.5°	1657.1	2089.7	2415.8	2066.7	1560.4	1218.9	1085.3	1046.4	1063.3	1077.6
1435.4	45°	1763.6	2255.0	2459.3	1988.3	1379.1	1077.1	1008.0	1017.2	1030.0	1031.5
1497.4	47.5°	1899.8	2422.4	2488.0	1870.1	1194.3	977.3	958.8	960.9	958.3	947.6
1590.1	50°	2069.7	2585.2	2513.6	1713.4	1037.2	914.8	890.2	883.1	847.8	812.9
1713.4	52.5°	2263.2	2734.7	2524.3	1518.9	914.8	862.6	822.7	777.6	711.6	700.8
1868.5	55°	2478.2	2872.9	2496.7	1279.8	811.9	795.5	735.1	680.9	673.7	664.5
2072.8	57.5°	2735.2	3021.9	2440.4	1013.1	706.5	717.2	658.3	664.5	651.7	637.4
2335.4	60°	3016.3	3176.0	2341.6	769.9	597.4	619.4	638.4	637.9	634.3	622.5
2612.4	62.5°	3269.2	3277.4	2147.0	589.7	501.7	543.7	595.4	594.9	591.8	585.1
2901.6	65°	3419.7	3262.0	1822.5	464.3	422.9	481.2	537.0	541.1	541.6	541.1
3119.2	67.5°	3393.1	3082.3	1377.1	369.6	357.8	417.7	479.2	484.8	488.9	489.9
3146.8	70°	3092.1	2687.6	897.9	294.9	300.0	361.9	424.4	430.0	433.6	437.7
2730.6	72.5°	2410.2	1976.0	514.0	238.6	249.3	313.8	370.1	376.8	378.8	386.5
1900.3	75°	1468.7	1162.1	277.5	187.9	204.8	268.3	316.4	324.1	327.6	336.8
933.2	77.5°	698.3	503.2	158.2	146.4	164.8	219.1	267.2	275.9	266.2	271.3
257.5	80°	236.0	186.9	99.8	111.6	125.9	171.0	214.0	222.7	202.2	201.2
85.5	82.5°	82.4	75.8	63.5	74.2	81.4	122.4	161.8	173.0	150.5	150.0
38.4	85°	32.3	30.7	35.3	40.4	48.6	75.3	106.5	112.1	92.7	74.7
11.3	87.5°	6.7	7.2	8.7	9.2	14.8	26.1	38.4	47.1	37.4	31.7
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>
1103.7
1145.2
1205.6
1275.2
1354.6
1445.2
1556.8
1678.1
1744.1
1709.8
1617.7
1524.0
1442.1
1363.8
1279.3
1189.2
1109.4
1090.9
1041.8
955.8
817.6
704.4
666.0
634.8
618.4
582.6
541.1
490.9
439.7
389.6
337.9
267.2
199.1
142.8
73.7
29.2
0.0

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