

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: P940222

Luminaire Tested: **GALN-SB3A-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940222
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-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 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: 9668 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

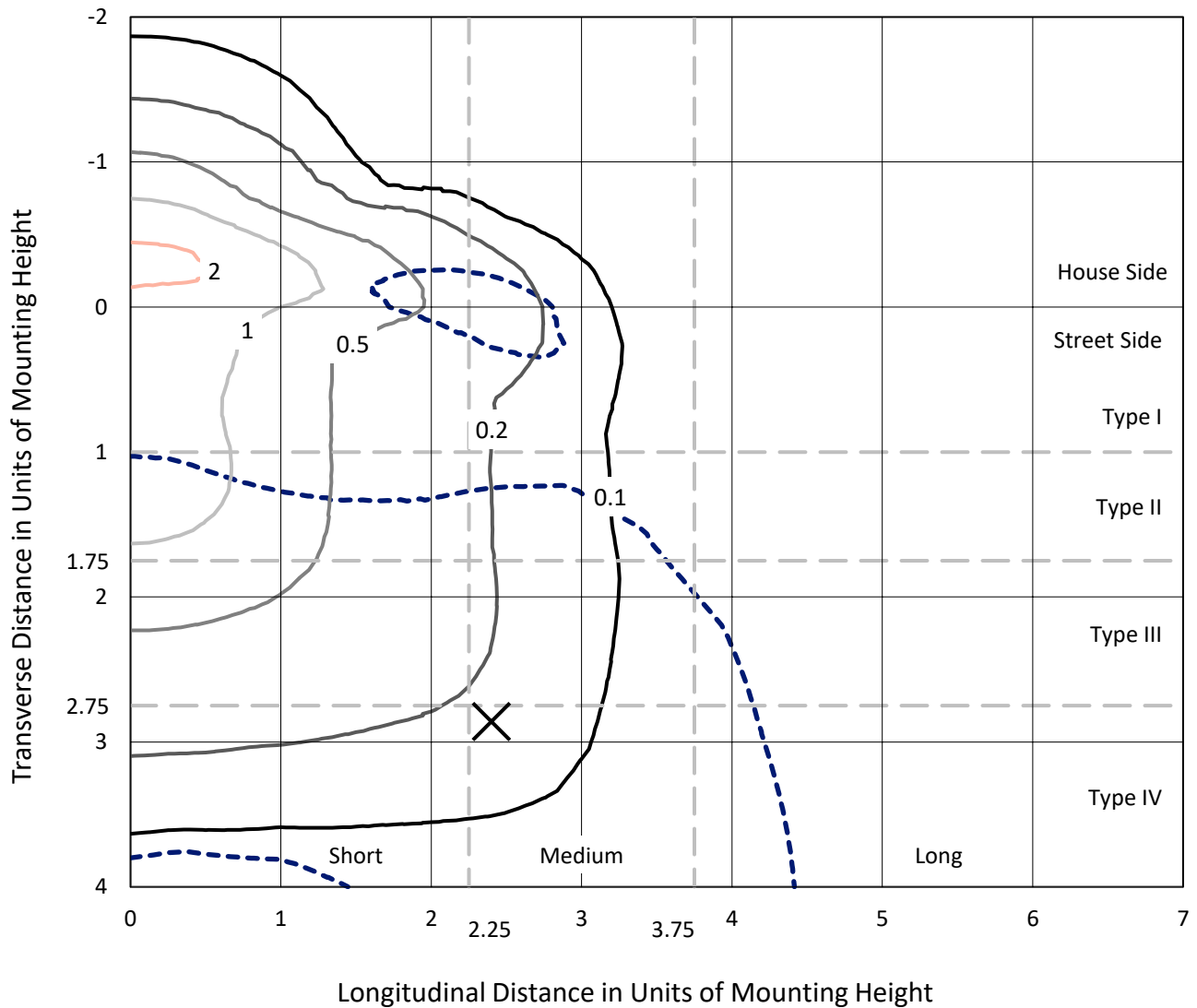
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

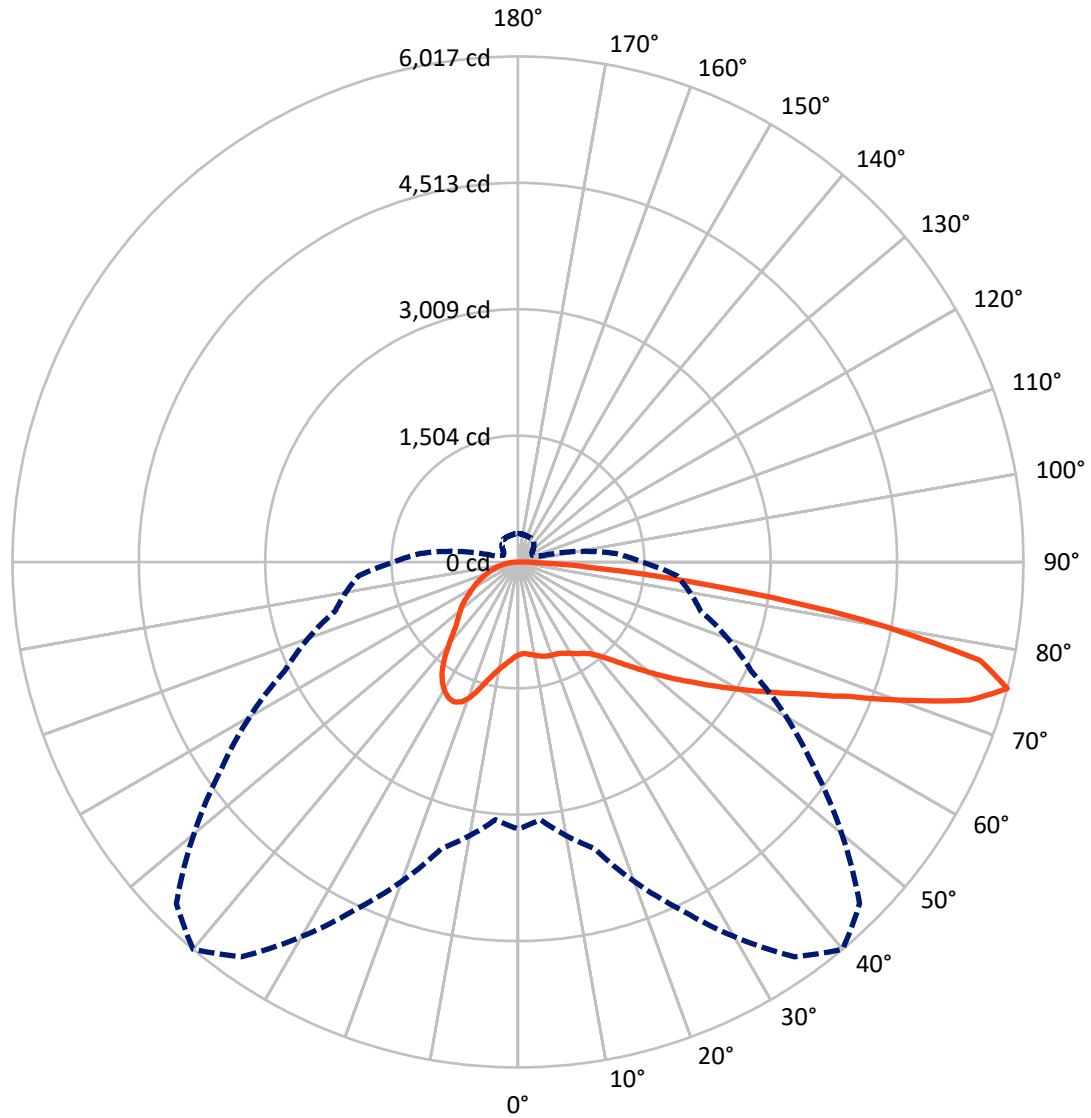
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	2995.5	0.0	2995.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6672.5	0.0	6672.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	9668.0	0.0	9668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	1.1
10°-20°	370.5	3.8
20°-30°	676.5	7.0
30°-40°	959.5	9.9
40°-50°	1295.6	13.4
50°-60°	1742.9	18.0
60°-70°	2212.2	22.9
70°-80°	2007.7	20.8
80°-90°	292.7	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°	9668.0	100.0
0°-180°	9668.0	100.0

Coefficient of Utilization



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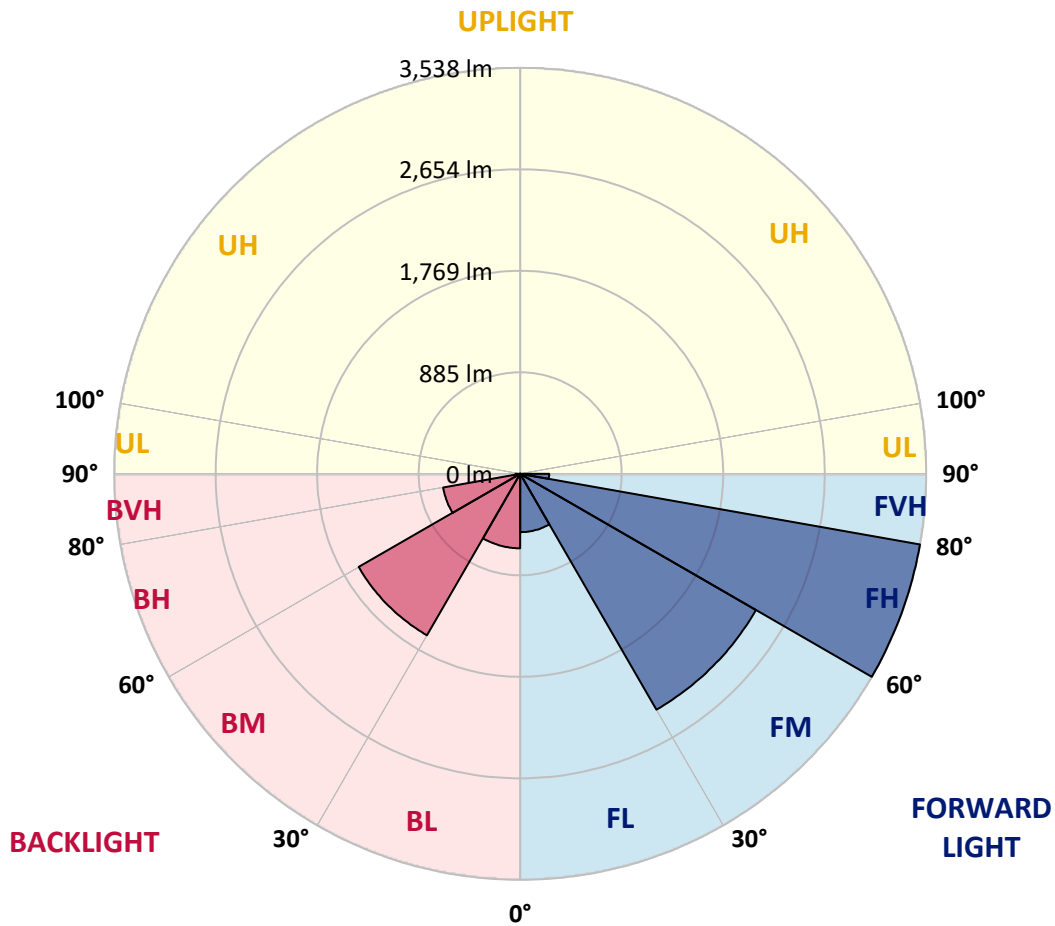
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	508.5	5.3			
FM (30°-60°)	2373.3	24.5			
FH (60°-80°)	3538.3	36.6			G2/5000
FVH (80°-90°)	252.4	2.6			G3/500
BL (0°-30°)	648.8	6.7	B2/1000		
BM (30°-60°)	1624.8	16.8	B2/2500		
BH (60°-80°)	681.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	40.3	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°	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5
2.5°	1088.6	1094.8	1093.2	1091.2	1091.2	1091.7	1091.2	1094.8	1098.4	1102.0
5°	1099.9	1106.1	1103.0	1100.4	1098.4	1097.9	1096.3	1095.8	1097.9	1102.5
7.5°	1122.0	1128.1	1123.5	1118.9	1114.8	1112.7	1110.7	1107.6	1106.1	1108.6
10°	1146.6	1152.7	1147.1	1138.9	1132.2	1129.6	1127.6	1124.5	1122.5	1124.0
12.5°	1171.2	1177.3	1169.6	1158.4	1149.6	1148.1	1145.5	1144.5	1144.0	1143.5
15°	1194.3	1199.4	1189.6	1176.3	1167.1	1164.5	1162.0	1163.5	1166.1	1169.1
17.5°	1212.2	1217.3	1203.0	1185.5	1176.8	1175.8	1174.3	1179.4	1186.6	1194.3
20°	1228.6	1233.7	1215.3	1191.7	1181.4	1181.4	1182.0	1192.7	1203.0	1214.3
22.5°	1251.7	1255.8	1233.2	1200.9	1186.1	1187.1	1191.2	1202.0	1214.8	1230.2
25°	1286.0	1289.1	1261.4	1218.4	1201.4	1204.5	1208.1	1213.2	1225.5	1243.5
27.5°	1341.4	1344.0	1307.6	1249.1	1223.5	1228.6	1233.7	1230.2	1235.8	1251.2
30°	1419.4	1420.9	1374.8	1297.3	1260.9	1263.5	1264.5	1249.6	1238.9	1251.2
32.5°	1511.7	1511.2	1456.3	1355.8	1303.5	1300.9	1292.2	1263.0	1237.8	1248.6
35°	1654.7	1649.1	1578.3	1437.8	1351.7	1335.8	1315.3	1277.8	1243.0	1246.0
37.5°	1891.6	1874.2	1776.3	1572.2	1423.5	1383.0	1352.7	1301.9	1254.3	1245.0
40°	2158.8	2136.7	2029.1	1756.3	1531.2	1466.0	1417.3	1336.3	1272.7	1249.6
42.5°	2475.7	2444.4	2328.5	1973.2	1667.6	1573.2	1499.9	1379.9	1299.9	1264.5
45°	2864.9	2823.4	2659.3	2217.8	1839.3	1713.7	1615.8	1446.0	1341.4	1293.2
47.5°	3258.2	3268.4	3035.1	2497.7	2045.5	1887.0	1760.9	1545.5	1401.9	1339.4
50°	3676.1	3683.3	3408.9	2808.0	2279.3	2082.9	1923.9	1656.8	1486.0	1405.0
52.5°	4002.2	4003.3	3748.4	3132.6	2522.9	2298.3	2099.8	1784.0	1583.5	1492.2
55°	4206.3	4203.8	3986.3	3439.7	2802.8	2524.4	2294.7	1928.6	1702.4	1594.7
57.5°	4354.5	4346.8	4150.4	3703.8	3101.3	2791.6	2515.2	2092.6	1842.9	1716.8
60°	4410.9	4406.3	4261.7	3932.0	3415.1	3086.9	2769.5	2276.2	2002.4	1860.9
62.5°	4432.5	4441.2	4370.9	4153.0	3751.0	3414.1	3049.0	2495.7	2181.9	2023.9
65°	4508.3	4524.2	4509.9	4442.2	4130.4	3797.1	3419.7	2756.7	2377.8	2198.8
67.5°	4658.6	4674.5	4680.6	4788.3	4594.0	4274.5	3882.2	3081.8	2607.0	2380.3
70°	4655.0	4650.4	4759.1	5063.7	5174.4	4935.5	4505.8	3481.8	2880.3	2531.1
72.5°	4237.1	4200.2	4457.1	5060.6	5657.5	5625.7	5267.3	3997.6	3116.1	2549.5
75°	3178.7	3080.3	3534.1	4560.6	5738.0	6017.4	5751.3	4317.6	3060.3	2252.6
77.5°	1359.4	1260.4	1795.2	3376.1	5135.5	5625.2	5307.2	3766.9	2442.9	1489.6
80°	355.9	355.4	542.5	1530.6	3492.5	4154.0	3644.3	2432.6	1395.8	532.3
82.5°	147.2	143.6	199.5	595.3	1706.5	2331.1	1902.4	1085.0	504.1	144.1
85°	54.9	54.4	96.9	205.6	602.0	961.5	695.8	277.4	125.6	70.3
87.5°	15.4	14.9	21.0	71.3	146.7	222.5	119.0	45.6	35.4	27.7
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°
1105.5	0°	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5
1107.6	2.5°	1109.1	1111.7	1116.3	1119.9	1124.5	1129.6	1136.8	1141.4	1146.1	1149.1
1110.2	5°	1113.8	1119.4	1131.2	1143.0	1156.8	1169.6	1184.5	1195.3	1204.0	1206.6
1119.4	7.5°	1124.0	1133.2	1153.2	1173.2	1195.3	1216.3	1237.8	1256.3	1271.2	1276.8
1135.8	10°	1142.0	1154.3	1182.5	1210.7	1239.9	1272.2	1299.9	1326.6	1347.6	1356.3
1155.3	12.5°	1164.5	1179.9	1216.8	1255.8	1296.3	1340.9	1376.8	1409.6	1435.8	1447.6
1182.5	15°	1193.7	1213.7	1260.9	1313.2	1372.7	1434.8	1480.4	1516.8	1546.0	1560.4
1210.7	17.5°	1225.5	1252.2	1311.7	1390.7	1475.8	1557.3	1610.6	1637.3	1667.6	1681.4
1236.8	20°	1256.3	1289.1	1374.2	1489.1	1602.4	1689.1	1732.2	1739.3	1741.4	1742.9
1261.4	22.5°	1288.1	1332.2	1452.7	1613.2	1734.7	1794.7	1800.9	1770.1	1727.0	1707.0
1285.5	25°	1323.0	1381.4	1555.3	1750.1	1848.6	1855.7	1808.6	1733.7	1652.2	1614.7
1305.0	27.5°	1356.8	1438.3	1678.3	1880.9	1930.6	1867.5	1766.0	1659.9	1561.4	1521.9
1318.9	30°	1390.7	1503.5	1814.2	1995.2	1968.0	1838.3	1698.8	1580.4	1481.4	1439.9
1331.2	32.5°	1425.0	1579.4	1970.6	2077.8	1961.4	1776.3	1615.2	1491.2	1404.0	1360.4
1341.9	35°	1464.0	1672.7	2118.8	2122.9	1916.8	1685.0	1505.0	1384.5	1308.6	1273.7
1354.8	37.5°	1514.7	1791.1	2249.6	2134.2	1838.8	1551.2	1368.1	1258.4	1195.8	1179.9
1373.7	40°	1577.8	1933.7	2349.5	2116.2	1723.4	1388.6	1218.4	1130.7	1095.3	1098.9
1399.4	42.5°	1659.9	2093.2	2419.8	2070.1	1562.9	1220.9	1087.1	1048.1	1065.0	1079.4
1437.8	45°	1766.5	2258.8	2463.4	1991.6	1381.4	1078.9	1009.7	1018.9	1031.7	1033.2
1499.9	47.5°	1902.9	2426.5	2492.1	1873.2	1196.3	978.9	960.4	962.5	959.9	949.2
1592.7	50°	2073.2	2589.5	2517.7	1716.3	1038.9	916.3	891.7	884.5	849.2	814.3
1716.3	52.5°	2267.0	2739.3	2528.5	1521.4	916.3	864.0	824.0	778.9	712.8	702.0
1871.6	55°	2482.4	2877.7	2500.8	1281.9	813.3	796.9	736.3	682.0	674.8	665.6
2076.2	57.5°	2739.8	3026.9	2444.4	1014.8	707.6	718.4	659.4	665.6	652.8	638.4
2339.3	60°	3021.3	3181.3	2345.4	771.2	598.4	620.5	639.4	638.9	635.3	623.5
2616.7	62.5°	3274.6	3282.8	2150.6	590.7	502.5	544.6	596.4	595.8	592.8	586.1
2906.4	65°	3425.4	3267.4	1825.5	465.1	423.6	482.0	537.9	542.0	542.5	542.0
3124.4	67.5°	3398.7	3087.4	1379.4	370.2	358.4	418.4	480.0	485.6	489.7	490.7
3152.0	70°	3097.2	2692.1	899.4	295.4	300.5	362.5	425.1	430.7	434.3	438.4
2735.2	72.5°	2414.2	1979.3	514.8	239.0	249.7	314.3	370.7	377.4	379.5	387.1
1903.4	75°	1471.2	1164.0	277.9	188.2	205.1	268.7	316.9	324.6	328.2	337.4
934.8	77.5°	699.4	504.1	158.4	146.7	165.1	219.5	267.7	276.4	266.6	271.8
257.9	80°	236.4	187.2	100.0	111.8	126.1	171.3	214.3	223.1	202.5	201.5
85.6	82.5°	82.6	75.9	63.6	74.4	81.5	122.6	162.0	173.3	150.8	150.2
38.5	85°	32.3	30.8	35.4	40.5	48.7	75.4	106.7	112.3	92.8	74.9
11.3	87.5°	6.7	7.2	8.7	9.2	14.9	26.2	38.5	47.2	37.4	31.8
0.0	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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<u>180°</u>
1105.5
1147.1
1207.6
1277.3
1356.8
1447.6
1559.4
1680.9
1747.0
1712.7
1620.4
1526.5
1444.5
1366.0
1281.4
1191.2
1111.2
1092.7
1043.5
957.4
818.9
705.6
667.1
635.8
619.4
583.5
542.0
491.8
440.5
390.2
338.4
267.7
199.5
143.1
73.8
29.2
0.0

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