

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: P939662

Luminaire Tested: **GALN-SB2B-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939662
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-SB2B-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10677 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

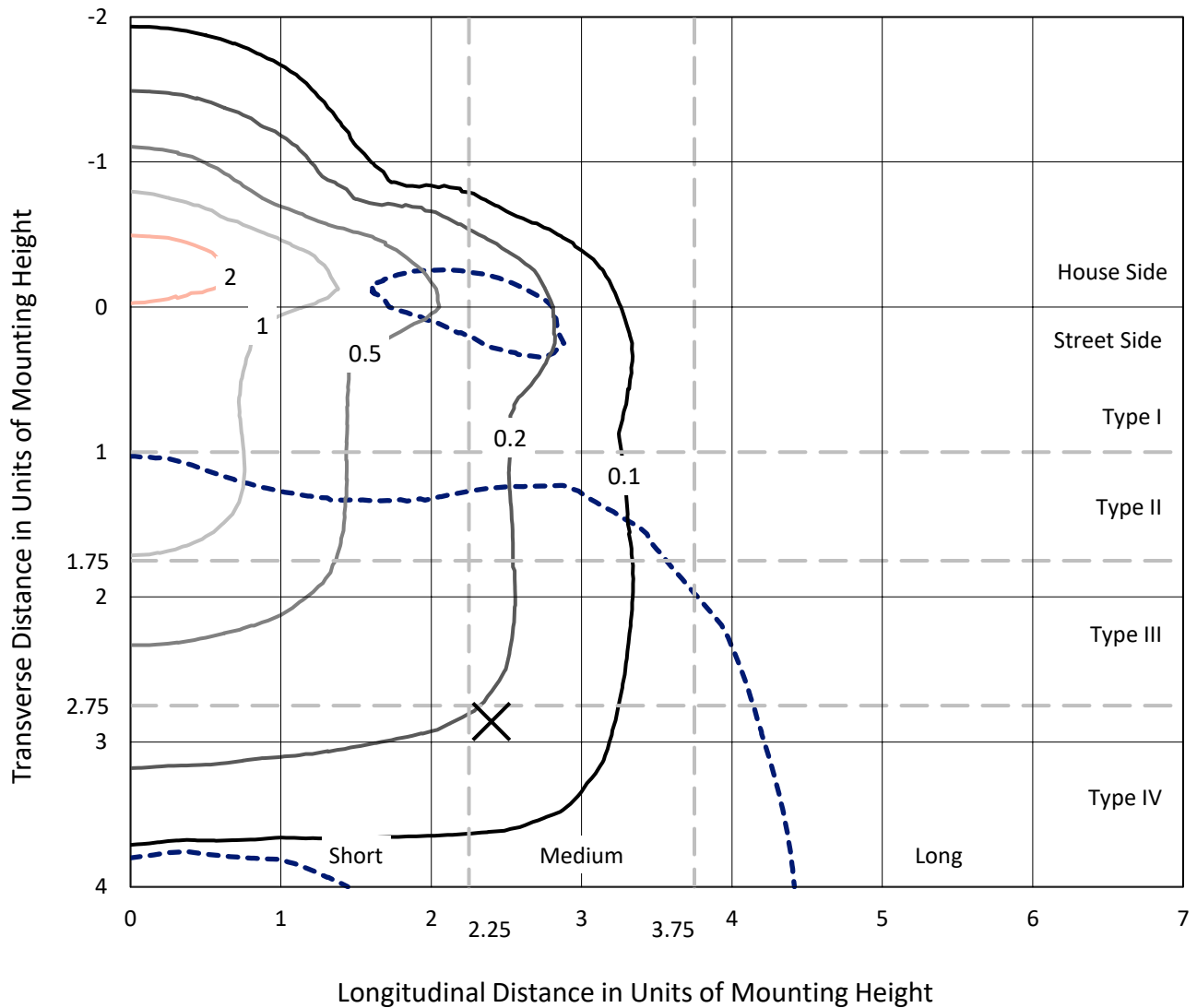
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

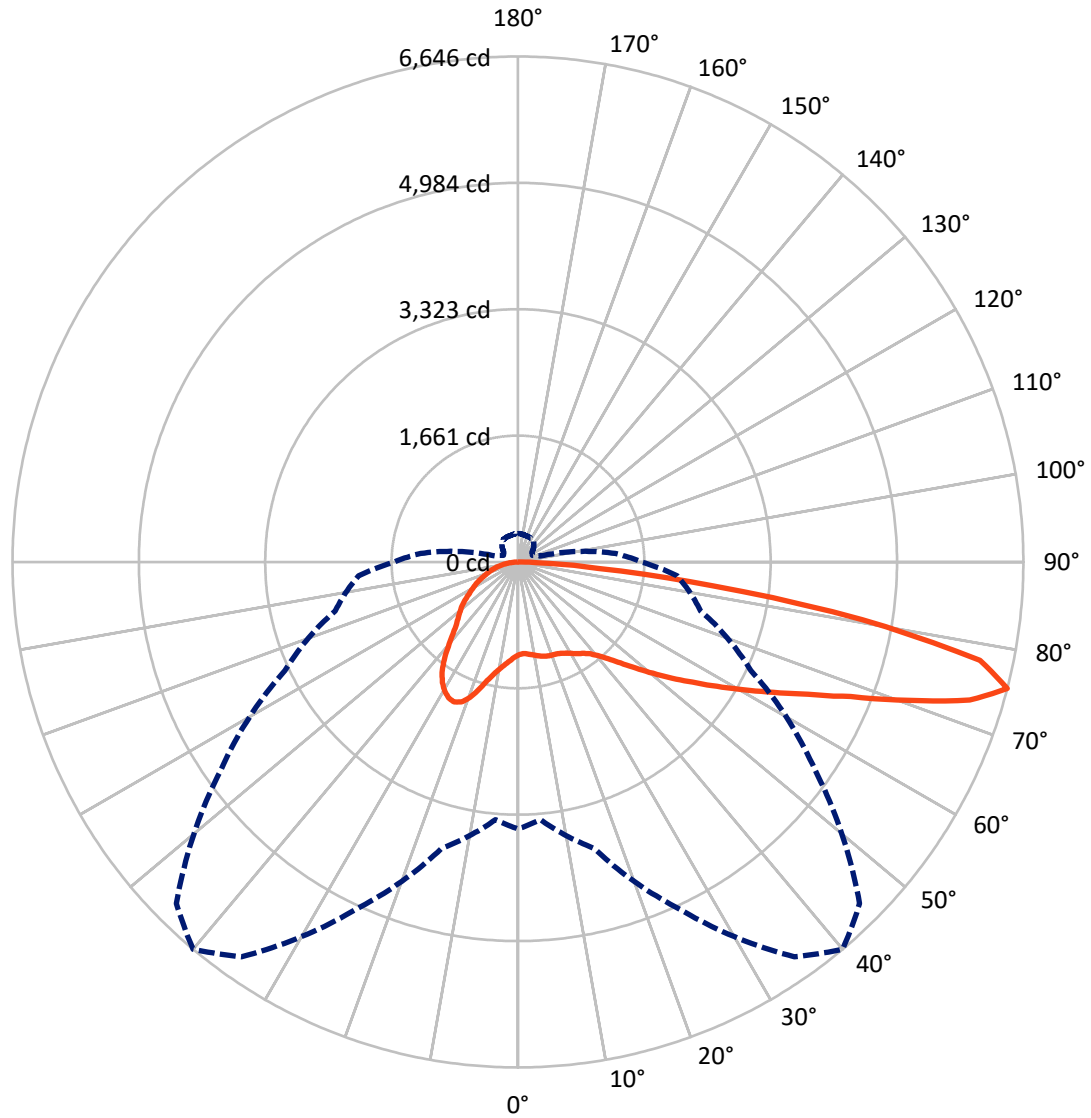
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type 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	3308.1	0.0	3308.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	7368.9	0.0	7368.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	10677.0	0.0	10677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.1
10°-20°	409.2	3.8
20°-30°	747.1	7.0
30°-40°	1059.6	9.9
40°-50°	1430.8	13.4
50°-60°	1924.8	18.0
60°-70°	2443.1	22.9
70°-80°	2217.2	20.8
80°-90°	323.2	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°	10677.0	100.0
0°-180°	10677.0	100.0

Coefficient of Utilization



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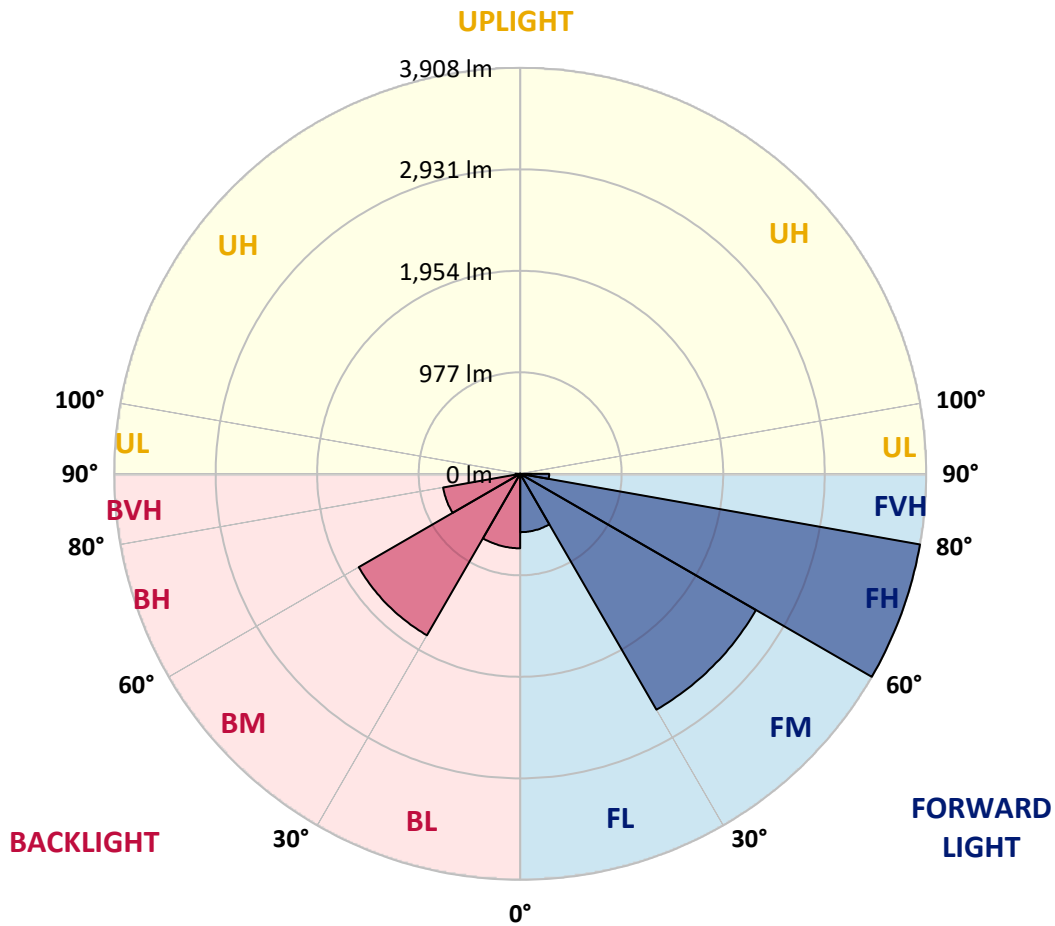
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.6	5.3			
FM (30°-60°)	2621.0	24.5			
FH (60°-80°)	3907.6	36.6			G2/5000
FVH (80°-90°)	278.7	2.6			G3/500
BL (0°-30°)	716.6	6.7	B2/1000		
BM (30°-60°)	1794.3	16.8	B2/2500		
BH (60°-80°)	752.7	7.0	B2/1000		G2/1000
BVH (80°-90°)	44.5	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°	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9
2.5°	1202.2	1209.0	1207.3	1205.1	1205.1	1205.6	1205.1	1209.0	1213.0	1217.0
5°	1214.7	1221.5	1218.1	1215.3	1213.0	1212.4	1210.7	1210.2	1212.4	1217.5
7.5°	1239.1	1245.8	1240.7	1235.7	1231.1	1228.9	1226.6	1223.2	1221.5	1224.3
10°	1266.2	1273.0	1266.8	1257.7	1250.4	1247.5	1245.3	1241.9	1239.6	1241.3
12.5°	1293.4	1300.2	1291.7	1279.3	1269.6	1267.9	1265.1	1264.0	1263.4	1262.8
15°	1318.9	1324.6	1313.8	1299.1	1288.9	1286.1	1283.2	1284.9	1287.8	1291.1
17.5°	1338.7	1344.4	1328.5	1309.3	1299.6	1298.5	1296.8	1302.5	1310.4	1318.9
20°	1356.8	1362.5	1342.1	1316.1	1304.7	1304.7	1305.3	1317.2	1328.5	1341.0
22.5°	1382.3	1386.9	1361.9	1326.3	1309.8	1311.0	1315.5	1327.4	1341.5	1358.5
25°	1420.3	1423.7	1393.1	1345.5	1326.8	1330.2	1334.2	1339.9	1353.4	1373.3
27.5°	1481.4	1484.3	1444.0	1379.5	1351.2	1356.8	1362.5	1358.5	1364.8	1381.8
30°	1567.5	1569.2	1518.2	1432.7	1392.5	1395.3	1396.5	1380.1	1368.2	1381.8
32.5°	1669.4	1668.9	1608.3	1497.3	1439.5	1436.7	1427.1	1394.8	1367.0	1378.9
35°	1827.4	1821.2	1743.1	1587.9	1492.8	1475.2	1452.5	1411.2	1372.7	1376.1
37.5°	2089.1	2069.8	1961.6	1736.3	1572.0	1527.3	1493.9	1437.8	1385.2	1375.0
40°	2384.1	2359.7	2240.8	1939.6	1691.0	1619.0	1565.2	1475.8	1405.5	1380.1
42.5°	2734.1	2699.5	2571.5	2179.1	1841.6	1737.4	1656.4	1523.9	1435.6	1396.5
45°	3163.9	3118.0	2936.8	2449.2	2031.3	1892.6	1784.4	1596.9	1481.4	1428.2
47.5°	3598.2	3609.6	3351.9	2758.4	2258.9	2084.0	1944.7	1706.8	1548.2	1479.2
50°	4059.8	4067.7	3764.7	3101.0	2517.2	2300.3	2124.7	1829.7	1641.1	1551.6
52.5°	4419.9	4421.1	4139.6	3459.5	2786.2	2538.1	2319.0	1970.1	1748.7	1647.9
55°	4645.3	4642.5	4402.4	3798.7	3095.4	2787.9	2534.2	2129.8	1880.1	1761.2
57.5°	4809.0	4800.5	4583.6	4090.3	3424.9	3082.9	2777.7	2311.0	2035.3	1896.0
60°	4871.3	4866.2	4706.5	4342.3	3771.5	3409.1	3058.6	2513.8	2211.4	2055.1
62.5°	4895.0	4904.7	4827.1	4586.4	4142.4	3770.4	3367.2	2756.2	2409.6	2235.2
65°	4978.9	4996.4	4980.6	4905.8	4561.5	4193.4	3776.6	3044.4	2625.9	2428.3
67.5°	5144.8	5162.3	5169.1	5288.1	5073.4	4720.6	4287.4	3403.4	2879.0	2628.7
70°	5140.8	5135.7	5255.8	5592.2	5714.5	5450.6	4976.0	3845.1	3180.9	2795.2
72.5°	4679.3	4638.5	4922.2	5588.8	6247.9	6212.8	5817.0	4414.8	3441.4	2815.6
75°	3510.5	3401.7	3902.9	5036.6	6336.8	6645.5	6351.5	4768.2	3379.6	2487.7
77.5°	1501.2	1391.9	1982.6	3728.5	5671.4	6212.2	5861.1	4160.0	2697.8	1645.1
80°	393.0	392.4	599.1	1690.4	3857.0	4587.5	4024.6	2686.5	1541.5	587.8
82.5°	162.5	158.6	220.3	657.5	1884.6	2574.4	2100.9	1198.3	556.7	159.1
85°	60.6	60.0	107.0	227.1	664.8	1061.8	768.5	306.4	138.7	77.6
87.5°	17.0	16.4	23.2	78.7	162.0	245.8	131.4	50.4	39.1	30.6
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°
1220.9	0°	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9
1223.2	2.5°	1224.9	1227.7	1232.8	1236.8	1241.9	1247.5	1255.5	1260.6	1265.7	1269.1
1226.0	5°	1230.0	1236.2	1249.2	1262.3	1277.6	1291.7	1308.1	1320.0	1329.7	1332.5
1236.2	7.5°	1241.3	1251.5	1273.6	1295.7	1320.0	1343.2	1367.0	1387.4	1403.8	1410.1
1254.3	10°	1261.1	1274.7	1305.9	1337.0	1369.3	1405.0	1435.6	1465.0	1488.2	1497.8
1275.9	12.5°	1286.1	1303.0	1343.8	1386.9	1431.6	1480.9	1520.5	1556.7	1585.6	1598.6
1305.9	15°	1318.3	1340.4	1392.5	1450.3	1516.0	1584.5	1634.9	1675.1	1707.4	1723.2
1337.0	17.5°	1353.4	1382.9	1448.6	1535.8	1629.8	1719.8	1778.7	1808.2	1841.6	1856.9
1365.9	20°	1387.4	1423.7	1517.7	1644.5	1769.7	1865.4	1912.9	1920.9	1923.1	1924.8
1393.1	22.5°	1422.5	1471.2	1604.3	1781.6	1915.8	1982.0	1988.8	1954.8	1907.3	1885.2
1419.7	25°	1461.0	1525.6	1717.6	1932.8	2041.5	2049.4	1997.3	1914.6	1824.6	1783.3
1441.2	27.5°	1498.4	1588.5	1853.5	2077.2	2132.1	2062.4	1950.3	1833.1	1724.4	1680.8
1456.5	30°	1535.8	1660.4	2003.5	2203.4	2173.4	2030.2	1876.1	1745.3	1636.0	1590.2
1470.1	32.5°	1573.7	1744.2	2176.3	2294.6	2166.1	1961.6	1783.8	1646.8	1550.5	1502.4
1482.0	35°	1616.8	1847.2	2339.9	2344.5	2116.8	1860.8	1662.1	1529.0	1445.2	1406.7
1496.1	37.5°	1672.8	1978.1	2484.3	2356.9	2030.7	1713.0	1510.9	1389.7	1320.6	1303.0
1517.1	40°	1742.5	2135.5	2594.8	2337.1	1903.3	1533.5	1345.5	1248.7	1209.6	1213.6
1545.4	42.5°	1833.1	2311.6	2672.3	2286.1	1726.1	1348.3	1200.5	1157.5	1176.2	1192.0
1587.9	45°	1950.9	2494.5	2720.5	2199.5	1525.6	1191.5	1115.0	1125.2	1139.4	1141.1
1656.4	47.5°	2101.5	2679.7	2752.2	2068.7	1321.2	1081.1	1060.7	1062.9	1060.1	1048.2
1758.9	50°	2289.5	2859.8	2780.5	1895.4	1147.3	1012.0	984.8	976.9	937.8	899.3
1895.4	52.5°	2503.6	3025.1	2792.4	1680.2	1012.0	954.2	910.0	860.2	787.1	775.3
2067.0	55°	2741.4	3178.0	2761.8	1415.7	898.1	880.0	813.2	753.2	745.2	735.0
2292.9	57.5°	3025.7	3342.8	2699.5	1120.7	781.5	793.4	728.3	735.0	720.9	705.0
2583.4	60°	3336.6	3513.3	2590.2	851.7	660.9	685.2	706.2	705.6	701.6	688.6
2889.8	62.5°	3616.4	3625.4	2375.0	652.4	555.0	601.4	658.6	658.0	654.6	647.3
3209.8	65°	3782.8	3608.4	2016.0	513.6	467.8	532.3	594.0	598.6	599.1	598.6
3450.4	67.5°	3753.4	3409.7	1523.3	408.9	395.8	462.1	530.1	536.3	540.8	541.9
3481.0	70°	3420.4	2973.0	993.3	326.2	331.8	400.4	469.5	475.7	479.7	484.2
3020.6	72.5°	2666.1	2185.9	568.6	263.9	275.8	347.1	409.4	416.8	419.1	427.6
2102.1	75°	1624.7	1285.5	306.9	207.8	226.5	296.7	350.0	358.5	362.4	372.6
1032.4	77.5°	772.4	556.7	175.0	162.0	182.3	242.4	295.6	305.2	294.5	300.1
284.8	80°	261.1	206.7	110.4	123.5	139.3	189.1	236.7	246.3	223.7	222.6
94.6	82.5°	91.2	83.8	70.2	82.1	90.0	135.3	178.9	191.4	166.5	165.9
42.5	85°	35.7	34.0	39.1	44.7	53.8	83.2	117.8	124.0	102.5	82.7
12.5	87.5°	7.4	7.9	9.6	10.2	16.4	28.9	42.5	52.1	41.3	35.1
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>
1220.9
1266.8
1333.6
1410.6
1498.4
1598.6
1722.1
1856.3
1929.4
1891.4
1789.5
1685.9
1595.2
1508.6
1415.2
1315.5
1227.2
1206.8
1152.4
1057.3
904.4
779.2
736.7
702.2
684.1
644.4
598.6
543.1
486.4
430.9
373.8
295.6
220.3
158.0
81.5
32.3
0.0

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