

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: P939262

Luminaire Tested: **GALN-SB1D-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939262
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-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 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: 10675 lumens
Efficiency: N/A
Efficacy: 134.1 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

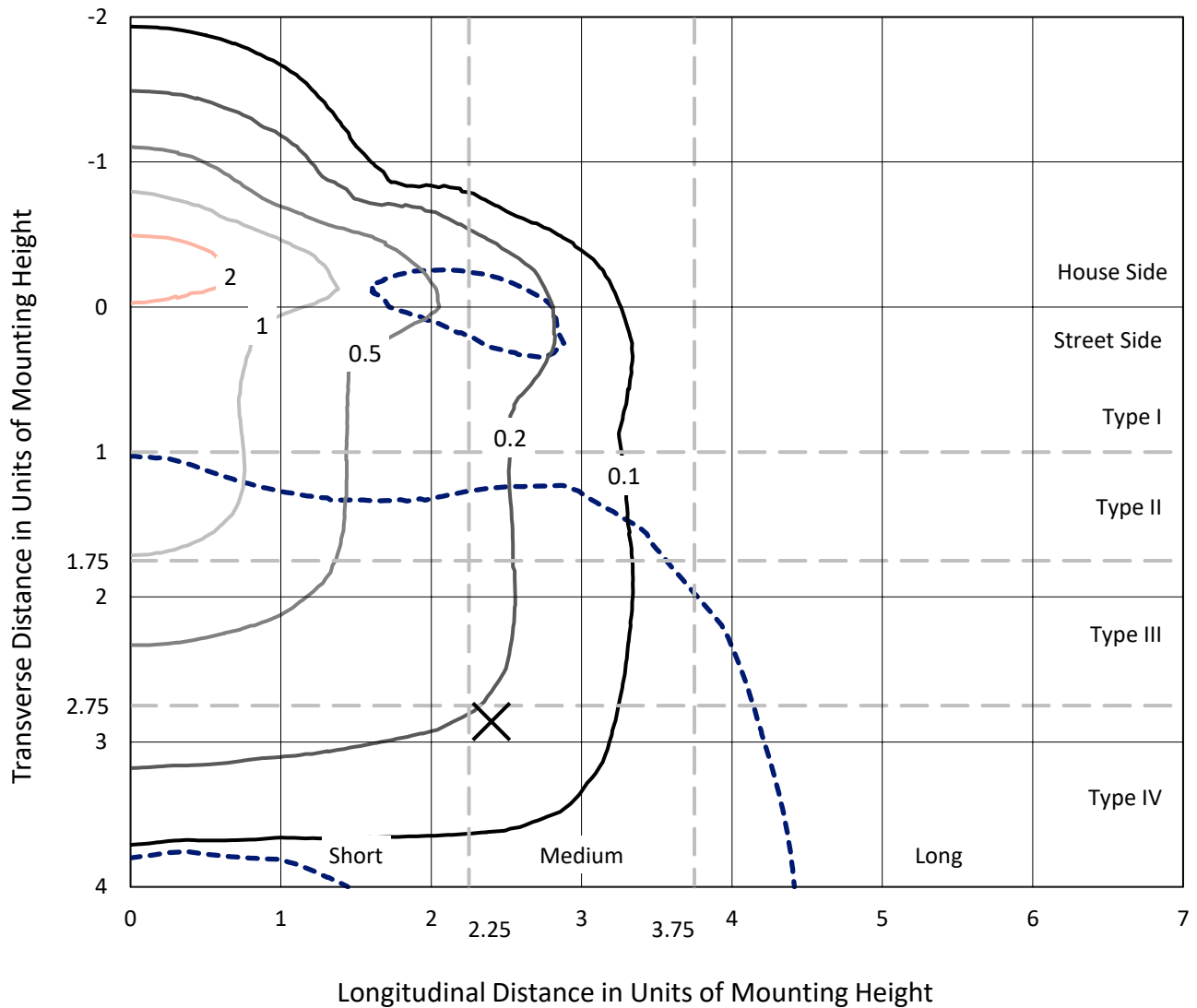
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

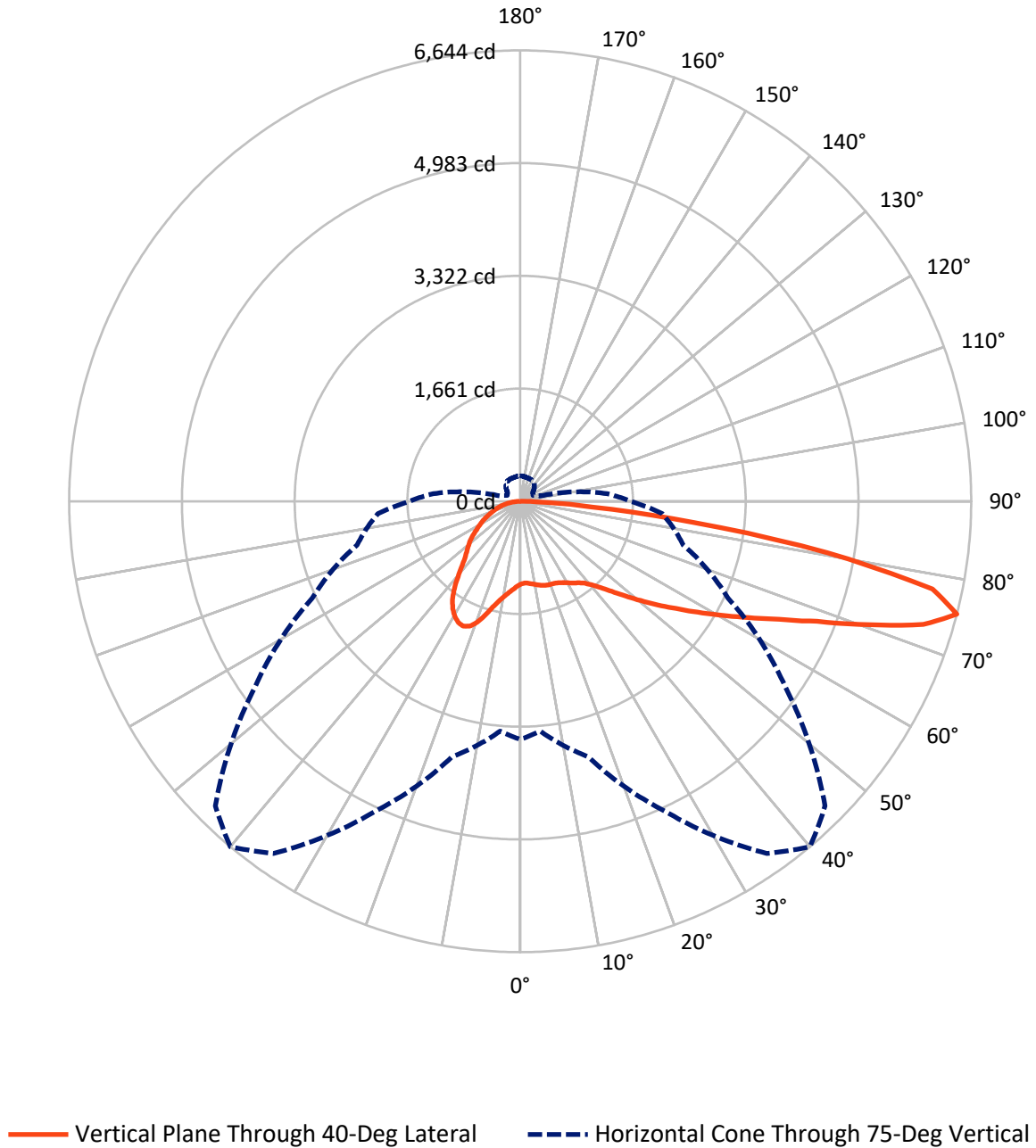
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3307.5	0.0	3307.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	7367.5	0.0	7367.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	10675.0	0.0	10675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.1
10°-20°	409.1	3.8
20°-30°	747.0	7.0
30°-40°	1059.4	9.9
40°-50°	1430.6	13.4
50°-60°	1924.5	18.0
60°-70°	2442.6	22.9
70°-80°	2216.8	20.8
80°-90°	323.1	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°	10675.0	100.0
0°-180°	10675.0	100.0

Coefficient of Utilization



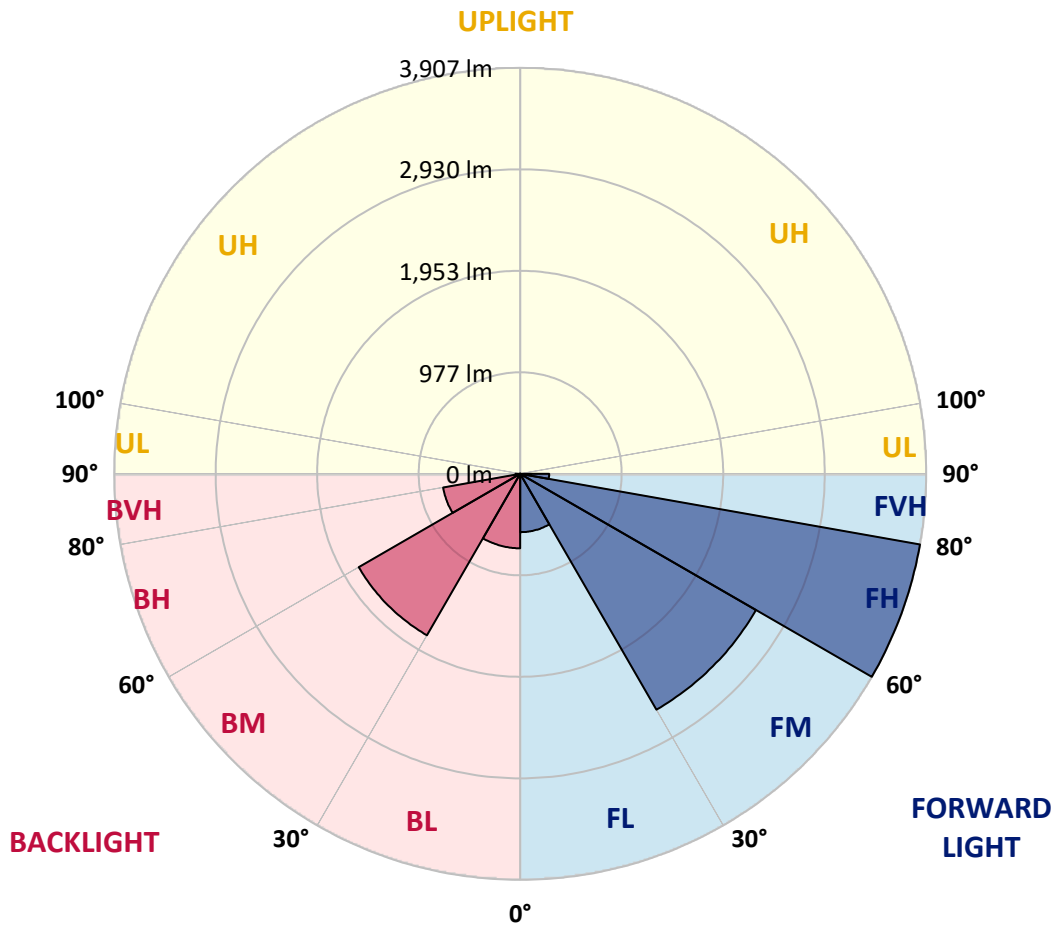
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.5	5.3			
FM (30°-60°)	2620.5	24.5			
FH (60°-80°)	3906.9	36.6			G2/5000
FVH (80°-90°)	278.7	2.6			G3/500
BL (0°-30°)	716.4	6.7	B2/1000		
BM (30°-60°)	1794.0	16.8	B2/2500		
BH (60°-80°)	752.6	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°	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7
2.5°	1202.0	1208.8	1207.1	1204.8	1204.8	1205.4	1204.8	1208.8	1212.8	1216.7
5°	1214.5	1221.3	1217.9	1215.0	1212.8	1212.2	1210.5	1209.9	1212.2	1217.3
7.5°	1238.8	1245.6	1240.5	1235.4	1230.9	1228.6	1226.4	1223.0	1221.3	1224.1
10°	1266.0	1272.8	1266.6	1257.5	1250.1	1247.3	1245.0	1241.6	1239.4	1241.1
12.5°	1293.2	1300.0	1291.5	1279.0	1269.4	1267.7	1264.9	1263.7	1263.2	1262.6
15°	1318.7	1324.3	1313.6	1298.8	1288.6	1285.8	1283.0	1284.7	1287.5	1290.9
17.5°	1338.5	1344.1	1328.3	1309.0	1299.4	1298.3	1296.6	1302.2	1310.2	1318.7
20°	1356.6	1362.2	1341.9	1315.8	1304.5	1304.5	1305.1	1317.0	1328.3	1340.7
22.5°	1382.1	1386.6	1361.7	1326.0	1309.6	1310.7	1315.3	1327.1	1341.3	1358.3
25°	1420.0	1423.4	1392.8	1345.3	1326.6	1330.0	1333.9	1339.6	1353.2	1373.0
27.5°	1481.1	1484.0	1443.8	1379.2	1350.9	1356.6	1362.2	1358.3	1364.5	1381.5
30°	1567.2	1568.9	1517.9	1432.5	1392.3	1395.1	1396.2	1379.8	1367.9	1381.5
32.5°	1669.1	1668.6	1608.0	1497.0	1439.2	1436.4	1426.8	1394.5	1366.8	1378.7
35°	1827.1	1820.9	1742.7	1587.6	1492.5	1474.9	1452.3	1410.9	1372.4	1375.8
37.5°	2088.7	2069.4	1961.3	1735.9	1571.7	1527.0	1493.6	1437.6	1384.9	1374.7
40°	2383.6	2359.3	2240.4	1939.2	1690.6	1618.7	1564.9	1475.5	1405.3	1379.8
42.5°	2733.6	2699.0	2571.1	2178.7	1841.2	1737.1	1656.1	1523.6	1435.3	1396.2
45°	3163.3	3117.4	2936.2	2448.8	2030.9	1892.2	1784.1	1596.6	1481.1	1427.9
47.5°	3597.6	3608.9	3351.3	2757.9	2258.5	2083.6	1944.3	1706.5	1548.0	1478.9
50°	4059.0	4066.9	3764.0	3100.4	2516.7	2299.9	2124.3	1829.4	1640.8	1551.4
52.5°	4419.1	4420.2	4138.8	3458.8	2785.6	2537.7	2318.5	1969.8	1748.4	1647.6
55°	4644.4	4641.6	4401.5	3798.0	3094.8	2787.3	2533.7	2129.4	1879.7	1760.8
57.5°	4808.1	4799.6	4582.7	4089.6	3424.3	3082.3	2777.2	2310.6	2034.9	1895.6
60°	4870.3	4865.3	4705.6	4341.5	3770.8	3408.4	3058.0	2513.3	2211.0	2054.7
62.5°	4894.1	4903.8	4826.2	4585.6	4141.7	3769.7	3366.6	2755.6	2409.1	2234.7
65°	4977.9	4995.5	4979.6	4904.9	4560.6	4192.6	3775.9	3043.8	2625.4	2427.8
67.5°	5143.8	5161.4	5168.2	5287.1	5072.5	4719.7	4286.6	3402.8	2878.5	2628.2
70°	5139.9	5134.8	5254.8	5591.1	5713.4	5449.6	4975.1	3844.4	3180.3	2794.7
72.5°	4678.4	4637.6	4921.3	5587.7	6246.7	6211.6	5815.9	4414.0	3440.7	2815.1
75°	3509.8	3401.1	3902.2	5035.7	6335.6	6644.2	6350.4	4767.3	3379.0	2487.3
77.5°	1501.0	1391.7	1982.2	3727.8	5670.4	6211.1	5860.0	4159.2	2697.3	1644.8
80°	392.9	392.4	599.0	1690.1	3856.3	4586.7	4023.9	2686.0	1541.2	587.7
82.5°	162.5	158.5	220.2	657.3	1884.3	2573.9	2100.6	1198.1	556.6	159.1
85°	60.6	60.0	107.0	227.0	664.7	1061.6	768.3	306.3	138.7	77.6
87.5°	17.0	16.4	23.2	78.7	161.9	245.7	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°
1220.7	0°	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7	1220.7
1223.0	2.5°	1224.7	1227.5	1232.6	1236.6	1241.6	1247.3	1255.2	1260.3	1265.4	1268.8
1225.8	5°	1229.8	1236.0	1249.0	1262.0	1277.3	1291.5	1307.9	1319.8	1329.4	1332.2
1236.0	7.5°	1241.1	1251.3	1273.4	1295.4	1319.8	1343.0	1366.8	1387.2	1403.6	1409.8
1254.1	10°	1260.9	1274.5	1305.6	1336.8	1369.0	1404.7	1435.3	1464.7	1487.9	1497.6
1275.6	12.5°	1285.8	1302.8	1343.6	1386.6	1431.3	1480.6	1520.2	1556.4	1585.3	1598.3
1305.6	15°	1318.1	1340.2	1392.3	1450.0	1515.7	1584.2	1634.6	1674.8	1707.1	1722.9
1336.8	17.5°	1353.2	1382.6	1448.3	1535.5	1629.5	1719.5	1778.4	1807.8	1841.2	1856.5
1365.6	20°	1387.2	1423.4	1517.4	1644.2	1769.3	1865.0	1912.6	1920.5	1922.8	1924.5
1392.8	22.5°	1422.3	1471.0	1604.0	1781.2	1915.4	1981.7	1988.5	1954.5	1906.9	1884.8
1419.4	25°	1460.8	1525.3	1717.2	1932.4	2041.1	2049.0	1996.9	1914.3	1824.3	1782.9
1440.9	27.5°	1498.1	1588.2	1853.1	2076.8	2131.7	2062.1	1950.0	1832.7	1724.0	1680.4
1456.2	30°	1535.5	1660.1	2003.2	2203.0	2173.0	2029.8	1875.8	1745.0	1635.7	1589.9
1469.8	32.5°	1573.4	1743.9	2175.9	2294.2	2165.7	1961.3	1783.5	1646.5	1550.2	1502.1
1481.7	35°	1616.5	1846.9	2339.5	2344.0	2116.4	1860.5	1661.8	1528.7	1444.9	1406.4
1495.9	37.5°	1672.5	1977.7	2483.9	2356.5	2030.3	1712.7	1510.6	1389.4	1320.3	1302.8
1516.8	40°	1742.2	2135.1	2594.3	2336.7	1903.0	1533.2	1345.3	1248.4	1209.4	1213.3
1545.1	42.5°	1832.7	2311.2	2671.8	2285.7	1725.7	1348.1	1200.3	1157.3	1176.0	1191.8
1587.6	45°	1950.5	2494.1	2720.0	2199.1	1525.3	1191.3	1114.8	1125.0	1139.2	1140.9
1656.1	47.5°	2101.1	2679.2	2751.7	2068.3	1320.9	1080.9	1060.5	1062.7	1059.9	1048.0
1758.6	50°	2289.1	2859.2	2780.0	1895.0	1147.1	1011.8	984.6	976.7	937.6	899.1
1895.0	52.5°	2503.1	3024.6	2791.9	1679.9	1011.8	954.0	909.9	860.0	787.0	775.1
2066.6	55°	2740.9	3177.4	2761.3	1415.5	898.0	879.9	813.0	753.0	745.1	734.9
2292.5	57.5°	3025.1	3342.2	2699.0	1120.5	781.3	793.2	728.1	734.9	720.8	704.9
2582.9	60°	3336.0	3512.6	2589.7	851.5	660.7	685.1	706.0	705.5	701.5	688.5
2889.3	62.5°	3615.7	3624.7	2374.6	652.2	554.9	601.3	658.5	657.9	654.5	647.2
3209.2	65°	3782.1	3607.7	2015.6	513.5	467.7	532.2	593.9	598.5	599.0	598.5
3449.8	67.5°	3752.7	3409.0	1523.0	408.8	395.8	462.0	530.0	536.2	540.7	541.8
3480.4	70°	3419.8	2972.5	993.1	326.1	331.8	400.3	469.4	475.6	479.6	484.1
3020.0	72.5°	2665.6	2185.5	568.5	263.8	275.7	347.1	409.4	416.7	419.0	427.5
2101.7	75°	1624.4	1285.2	306.9	207.8	226.5	296.7	349.9	358.4	362.4	372.6
1032.2	77.5°	772.3	556.6	175.0	161.9	182.3	242.3	295.5	305.2	294.4	300.1
284.8	80°	261.0	206.7	110.4	123.4	139.3	189.1	236.7	246.3	223.6	222.5
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>
1220.7
1266.6
1333.4
1410.4
1498.1
1598.3
1721.8
1856.0
1929.0
1891.1
1789.2
1685.5
1595.0
1508.3
1414.9
1315.3
1226.9
1206.5
1152.2
1057.1
904.2
779.1
736.6
702.1
684.0
644.3
598.5
543.0
486.4
430.9
373.7
295.5
220.2
158.0
81.5
32.3
0.0

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