

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: P939632

Luminaire Tested: **GALN-SB2B-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939632
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-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 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: 9707 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

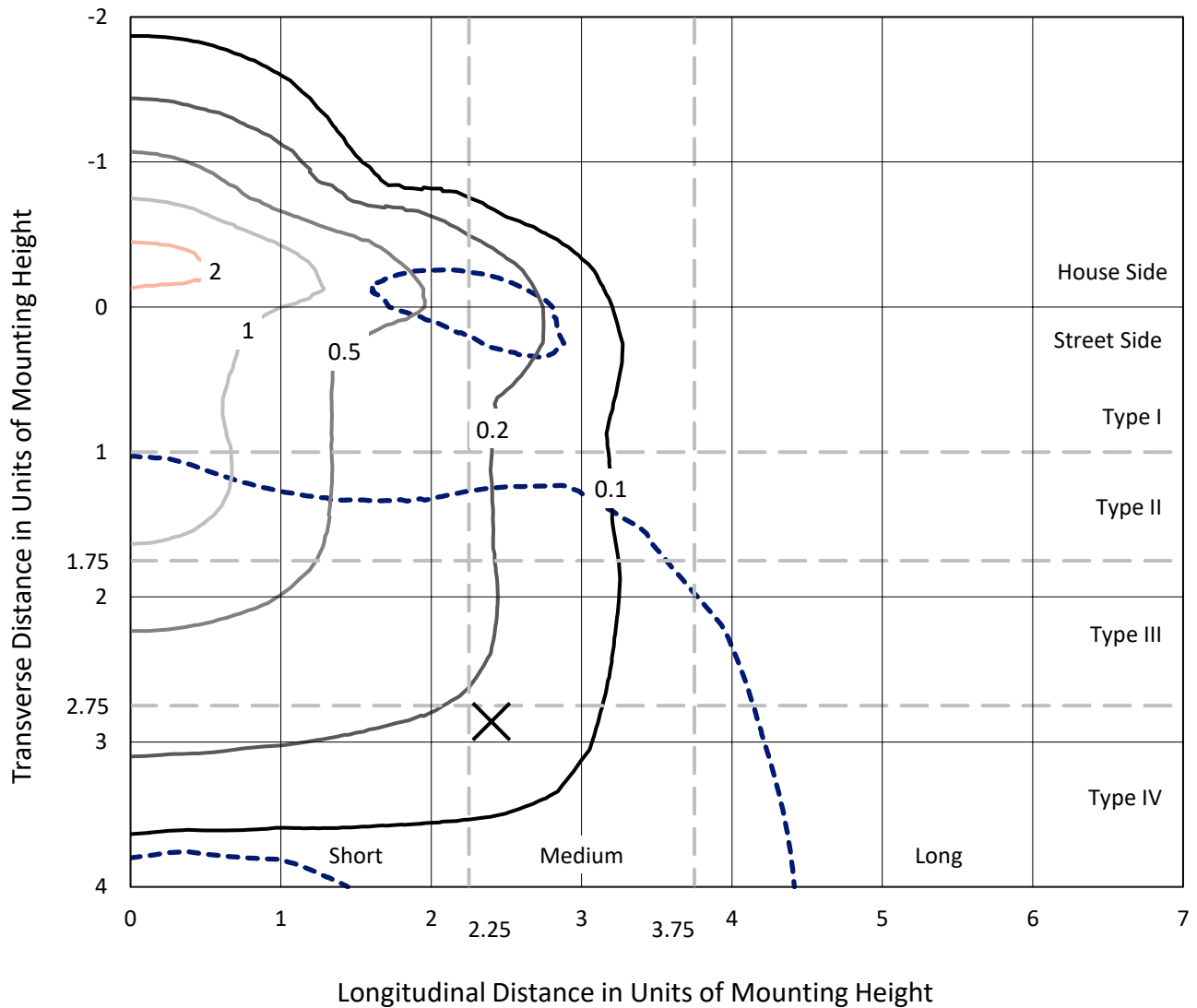
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

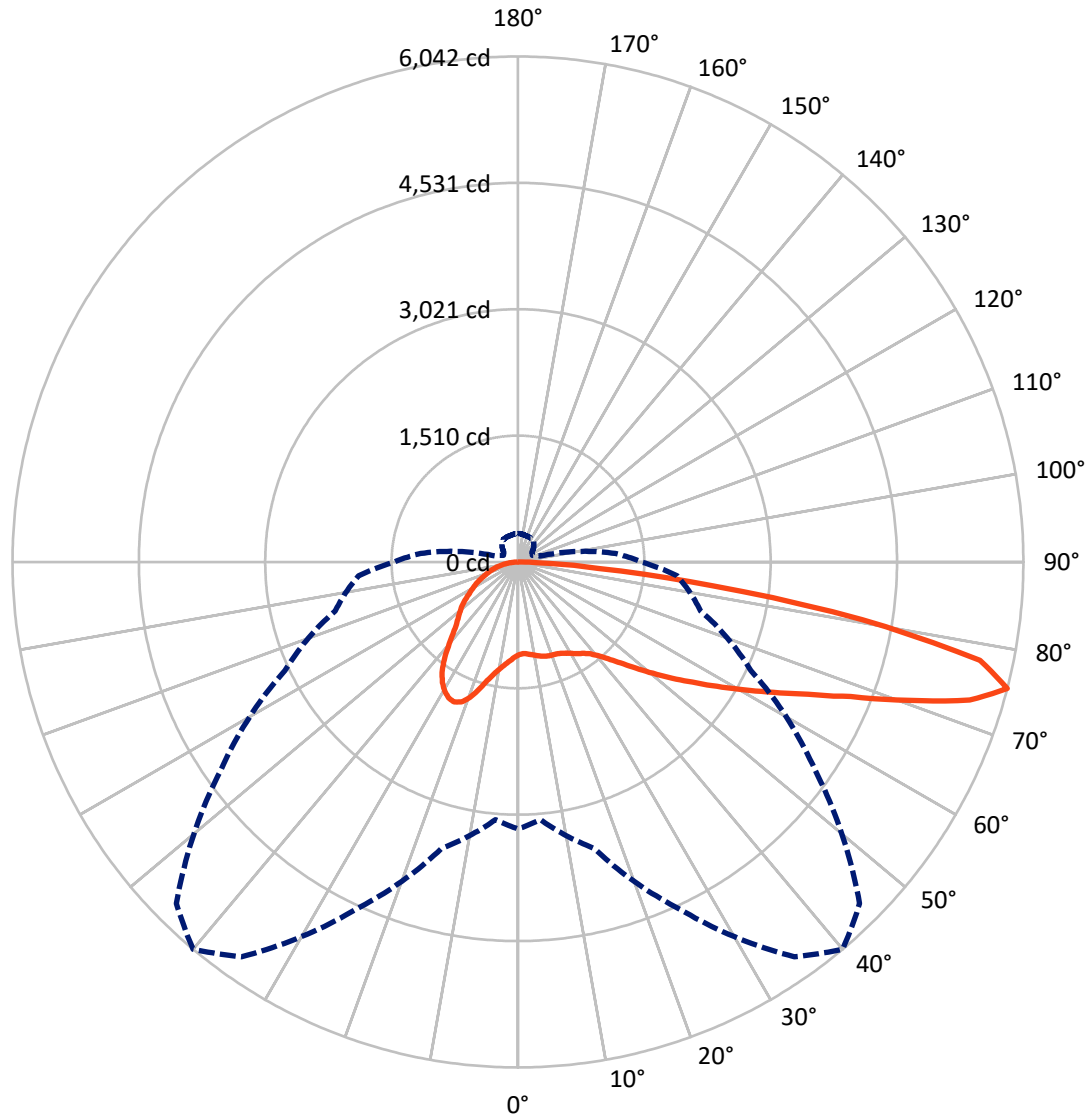
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	3007.6	0.0	3007.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6699.4	0.0	6699.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	9707.0	0.0	9707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	1.1
10°-20°	372.0	3.8
20°-30°	679.3	7.0
30°-40°	963.4	9.9
40°-50°	1300.8	13.4
50°-60°	1750.0	18.0
60°-70°	2221.1	22.9
70°-80°	2015.8	20.8
80°-90°	293.8	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°	9707.0	100.0
0°-180°	9707.0	100.0

Coefficient of Utilization



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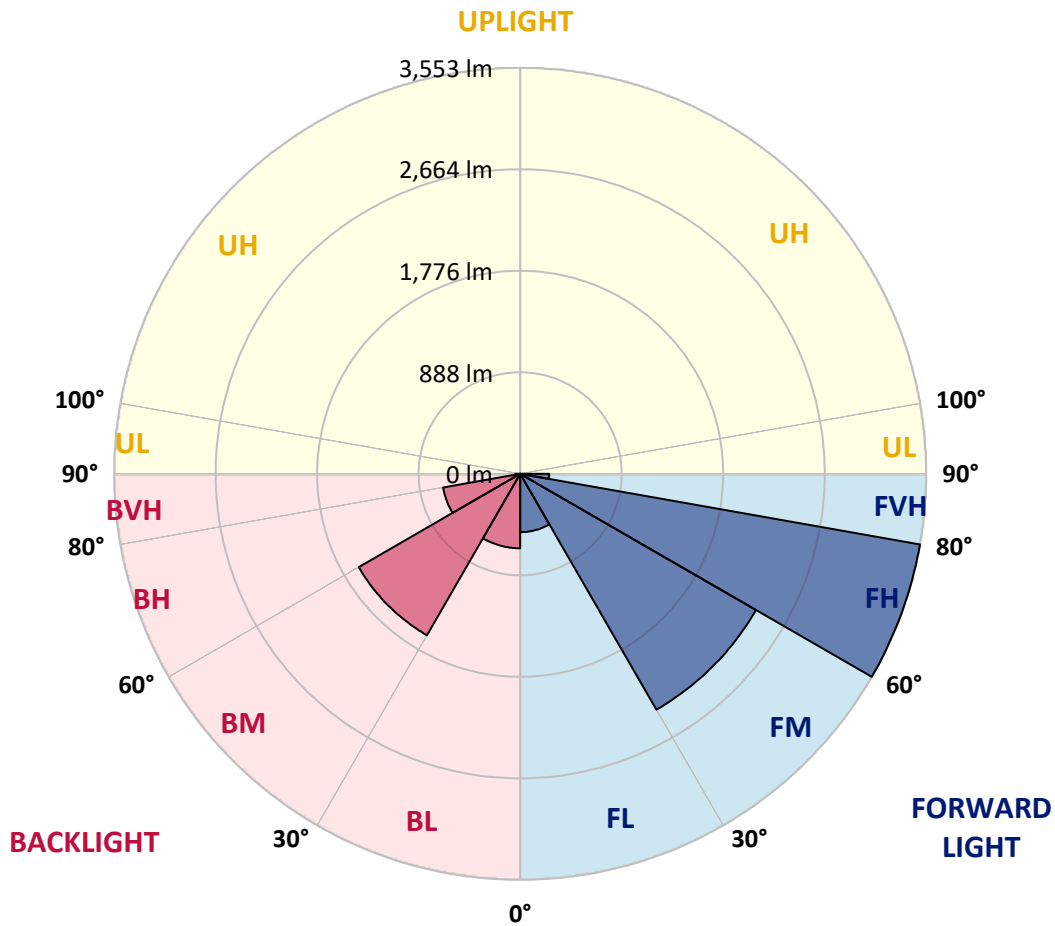
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.6	5.3			
FM (30°-60°)	2382.8	24.5			
FH (60°-80°)	3552.6	36.6			G2/5000
FVH (80°-90°)	253.4	2.6			G3/500
BL (0°-30°)	651.5	6.7	B2/1000		
BM (30°-60°)	1631.3	16.8	B2/2500		
BH (60°-80°)	684.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	40.5	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°	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0
2.5°	1093.0	1099.2	1097.7	1095.6	1095.6	1096.1	1095.6	1099.2	1102.8	1106.4
5°	1104.3	1110.5	1107.4	1104.9	1102.8	1102.3	1100.7	1100.2	1102.3	1106.9
7.5°	1126.5	1132.7	1128.0	1123.4	1119.3	1117.2	1115.2	1112.1	1110.5	1113.1
10°	1151.2	1157.4	1151.7	1143.5	1136.8	1134.2	1132.1	1129.1	1127.0	1128.5
12.5°	1175.9	1182.1	1174.4	1163.0	1154.3	1152.7	1150.2	1149.1	1148.6	1148.1
15°	1199.1	1204.2	1194.4	1181.1	1171.8	1169.2	1166.6	1168.2	1170.8	1173.8
17.5°	1217.1	1222.2	1207.8	1190.3	1181.6	1180.5	1179.0	1184.1	1191.4	1199.1
20°	1233.6	1238.7	1220.2	1196.5	1186.2	1186.2	1186.7	1197.5	1207.8	1219.2
22.5°	1256.7	1260.9	1238.2	1205.8	1190.8	1191.9	1196.0	1206.8	1219.7	1235.1
25°	1291.2	1294.3	1266.5	1223.3	1206.3	1209.4	1213.0	1218.1	1230.5	1248.5
27.5°	1346.8	1349.4	1312.9	1254.2	1228.4	1233.6	1238.7	1235.1	1240.8	1256.2
30°	1425.1	1426.6	1380.3	1302.6	1266.0	1268.6	1269.6	1254.7	1243.9	1256.2
32.5°	1517.8	1517.3	1462.2	1361.3	1308.7	1306.2	1297.4	1268.1	1242.8	1253.7
35°	1661.4	1655.7	1584.7	1443.6	1357.1	1341.2	1320.6	1283.0	1248.0	1251.1
37.5°	1899.3	1881.8	1783.4	1578.5	1429.2	1388.5	1358.2	1307.2	1259.3	1250.0
40°	2167.5	2145.4	2037.2	1763.3	1537.3	1471.9	1423.0	1341.7	1277.8	1254.7
42.5°	2485.7	2454.3	2337.9	1981.1	1674.3	1579.5	1505.9	1385.5	1305.1	1269.6
45°	2876.4	2834.7	2670.0	2226.7	1846.8	1720.6	1622.3	1451.9	1346.8	1298.4
47.5°	3271.3	3281.6	3047.4	2507.8	2053.7	1894.6	1768.0	1551.7	1407.6	1344.8
50°	3690.9	3698.1	3422.7	2819.3	2288.5	2091.3	1931.7	1663.5	1492.0	1410.7
52.5°	4018.4	4019.4	3763.5	3145.2	2533.0	2307.5	2108.3	1791.1	1589.8	1498.2
55°	4223.3	4220.7	4002.4	3453.6	2814.1	2534.6	2303.9	1936.3	1709.3	1601.2
57.5°	4372.1	4364.4	4167.2	3718.7	3113.8	2802.8	2525.3	2101.1	1850.4	1723.7
60°	4428.7	4424.1	4278.9	3947.8	3428.9	3099.4	2780.7	2285.4	2010.5	1868.4
62.5°	4450.3	4459.1	4388.5	4169.7	3766.1	3427.8	3061.3	2505.8	2190.7	2032.1
65°	4526.5	4542.5	4528.1	4460.1	4147.1	3812.4	3433.5	2767.8	2387.3	2207.7
67.5°	4677.4	4693.3	4699.5	4807.6	4612.5	4291.8	3897.9	3094.2	2617.5	2389.9
70°	4673.8	4669.1	4778.3	5084.1	5195.3	4955.4	4524.0	3495.8	2891.9	2541.3
72.5°	4254.2	4217.1	4475.0	5081.0	5680.3	5648.4	5288.5	4013.7	3128.7	2559.8
75°	3191.5	3092.7	3548.3	4579.0	5761.1	6041.7	5774.5	4335.0	3072.6	2261.7
77.5°	1364.9	1265.5	1802.5	3389.7	5156.2	5647.9	5328.7	3782.1	2452.7	1495.6
80°	357.3	356.8	544.7	1536.8	3506.6	4170.8	3659.0	2442.4	1401.4	534.4
82.5°	147.8	144.2	200.3	597.7	1713.4	2340.5	1910.1	1089.4	506.1	144.7
85°	55.1	54.6	97.3	206.5	604.4	965.3	698.6	278.5	126.1	70.5
87.5°	15.4	14.9	21.1	71.6	147.2	223.4	119.4	45.8	35.5	27.8
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°
1110.0	0°	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0	1110.0
1112.1	2.5°	1113.6	1116.2	1120.8	1124.4	1129.1	1134.2	1141.4	1146.0	1150.7	1153.8
1114.6	5°	1118.2	1123.9	1135.8	1147.6	1161.5	1174.4	1189.3	1200.1	1208.9	1211.4
1123.9	7.5°	1128.5	1137.8	1157.9	1178.0	1200.1	1221.2	1242.8	1261.4	1276.3	1282.0
1140.4	10°	1146.6	1158.9	1187.2	1215.6	1244.9	1277.3	1305.1	1331.9	1353.0	1361.8
1159.9	12.5°	1169.2	1184.7	1221.7	1260.9	1301.5	1346.3	1382.4	1415.3	1441.6	1453.4
1187.2	15°	1198.6	1218.6	1266.0	1318.5	1378.2	1440.5	1486.4	1522.9	1552.3	1566.7
1215.6	17.5°	1230.5	1257.3	1317.0	1396.3	1481.7	1563.6	1617.1	1643.9	1674.3	1688.2
1241.8	20°	1261.4	1294.3	1379.8	1495.1	1608.9	1695.9	1739.2	1746.4	1748.4	1750.0
1266.5	22.5°	1293.3	1337.6	1458.6	1619.7	1741.7	1802.0	1808.1	1777.2	1734.0	1713.9
1290.7	25°	1328.3	1387.0	1561.5	1757.2	1856.0	1863.2	1815.9	1740.7	1658.8	1621.3
1310.3	27.5°	1362.3	1444.1	1685.1	1888.5	1938.4	1875.1	1773.1	1666.6	1567.7	1528.1
1324.2	30°	1396.3	1509.5	1821.5	2003.3	1976.0	1845.7	1705.7	1586.8	1487.4	1445.7
1336.5	32.5°	1430.8	1585.7	1978.6	2086.2	1969.3	1783.4	1621.8	1497.2	1409.6	1365.9
1347.4	35°	1469.9	1679.4	2127.3	2131.5	1924.5	1691.8	1511.1	1390.1	1313.9	1278.9
1360.2	37.5°	1520.9	1798.4	2258.6	2142.8	1846.2	1557.4	1373.6	1263.4	1200.6	1184.7
1379.3	40°	1584.2	1941.5	2359.0	2124.8	1730.4	1394.2	1223.3	1135.2	1099.7	1103.3
1405.0	42.5°	1666.6	2101.6	2429.6	2078.4	1569.3	1225.8	1091.5	1052.3	1069.3	1083.8
1443.6	45°	1773.6	2267.9	2473.3	1999.7	1387.0	1083.2	1013.7	1023.0	1035.9	1037.4
1505.9	47.5°	1910.6	2436.3	2502.2	1880.7	1201.1	982.8	964.3	966.4	963.8	953.0
1599.1	50°	2081.5	2600.0	2527.9	1723.2	1043.1	920.0	895.3	888.1	852.6	817.6
1723.2	52.5°	2276.1	2750.3	2538.7	1527.5	920.0	867.5	827.4	782.1	715.6	704.8
1879.2	55°	2492.4	2889.3	2510.9	1287.1	816.5	800.1	739.3	684.7	677.5	668.3
2084.6	57.5°	2750.8	3039.1	2454.3	1018.9	710.5	721.3	662.1	668.3	655.4	641.0
2348.7	60°	3033.5	3194.1	2354.9	774.3	600.8	623.0	642.0	641.5	637.9	626.1
2627.3	62.5°	3287.8	3296.0	2159.3	593.1	504.5	546.8	598.8	598.3	595.2	588.5
2918.1	65°	3439.2	3280.6	1832.9	467.0	425.3	484.0	540.1	544.2	544.7	544.2
3137.0	67.5°	3412.4	3099.9	1384.9	371.7	359.9	420.1	481.9	487.6	491.7	492.7
3164.8	70°	3109.7	2702.9	903.0	296.6	301.7	364.0	426.8	432.5	436.1	440.2
2746.2	72.5°	2423.9	1987.3	516.9	239.9	250.7	315.6	372.2	378.9	381.0	388.7
1911.1	75°	1477.1	1168.7	279.0	188.9	205.9	269.8	318.2	325.9	329.5	338.8
938.6	77.5°	702.3	506.1	159.1	147.2	165.8	220.4	268.7	277.5	267.7	272.9
259.0	80°	237.3	187.9	100.4	112.2	126.7	172.0	215.2	224.0	203.4	202.3
86.0	82.5°	82.9	76.2	63.8	74.7	81.9	123.0	162.7	174.0	151.4	150.8
38.6	85°	32.4	30.9	35.5	40.7	48.9	75.7	107.1	112.8	93.2	75.2
11.3	87.5°	6.7	7.2	8.8	9.3	14.9	26.3	38.6	47.4	37.6	31.9
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>
1110.0
1151.7
1212.5
1282.5
1362.3
1453.4
1565.6
1687.7
1754.1
1719.6
1626.9
1532.7
1450.3
1371.6
1286.6
1196.0
1115.7
1097.1
1047.7
961.2
822.2
708.4
669.8
638.4
621.9
585.9
544.2
493.7
442.3
391.8
339.8
268.7
200.3
143.6
74.1
29.3
0.0

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