

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: P940877

Luminaire Tested: **GALN-SB4A-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10950 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

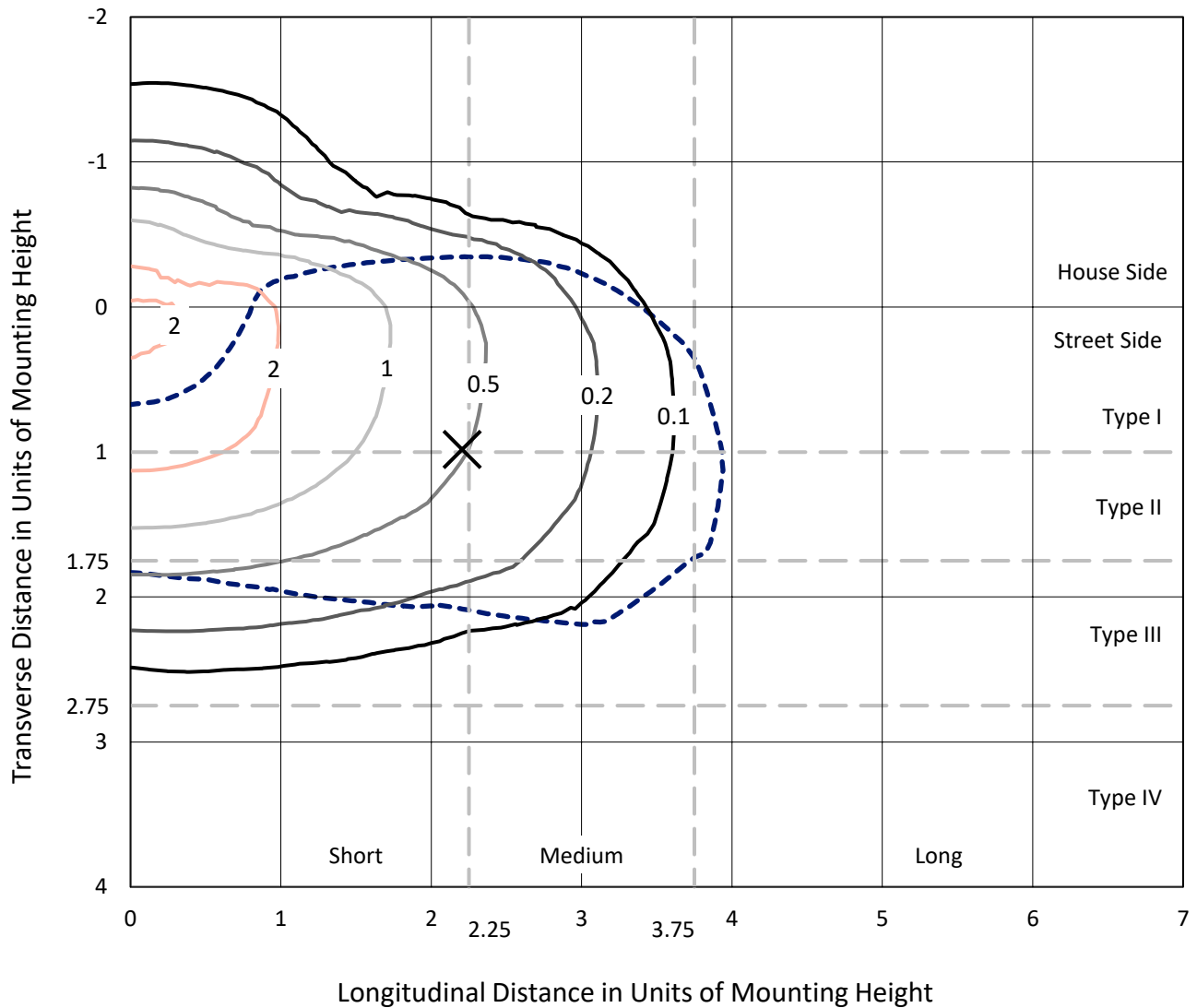
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

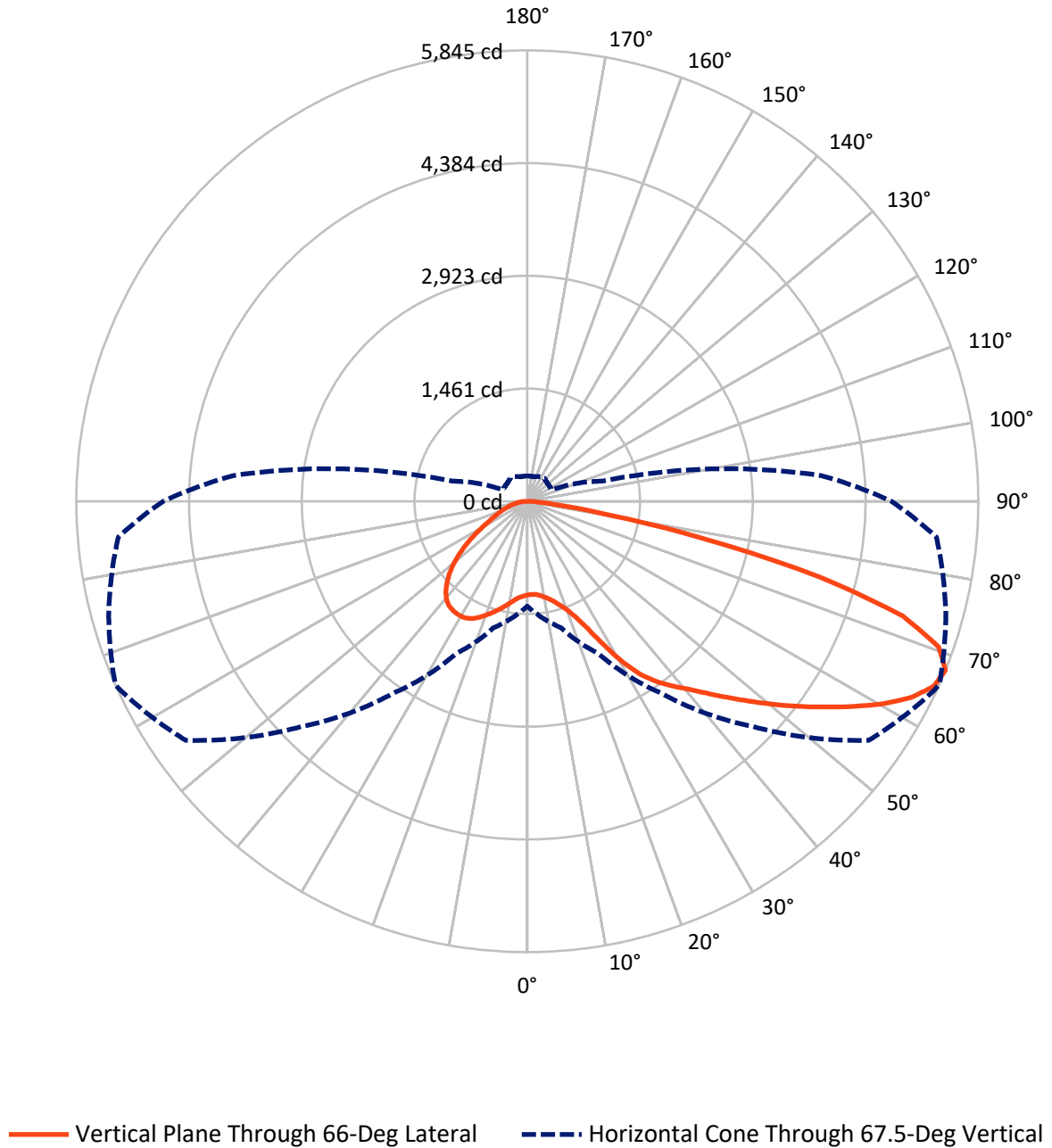
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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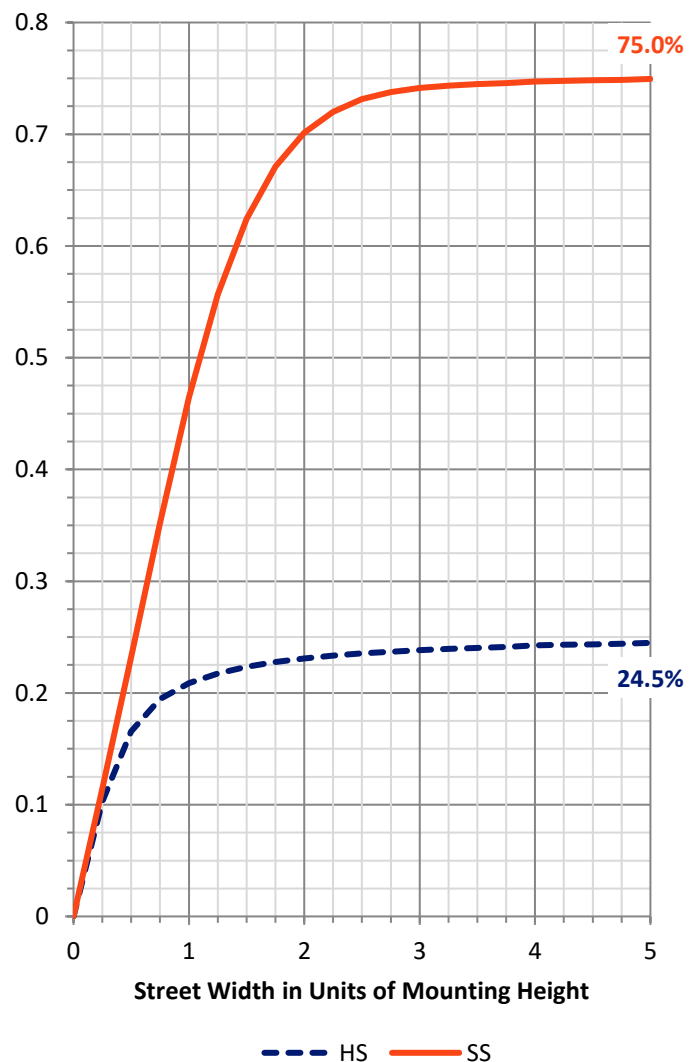
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2722.7	0.0	2722.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8227.3	0.0	8227.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	10950.0	0.0	10950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.1
10°-20°	397.8	3.6
20°-30°	766.8	7.0
30°-40°	1344.5	12.3
40°-50°	1998.8	18.3
50°-60°	2533.7	23.1
60°-70°	2479.1	22.6
70°-80°	1182.6	10.8
80°-90°	126.4	1.2
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°	10950.0	100.0
0°-180°	10950.0	100.0

Coefficient of Utilization



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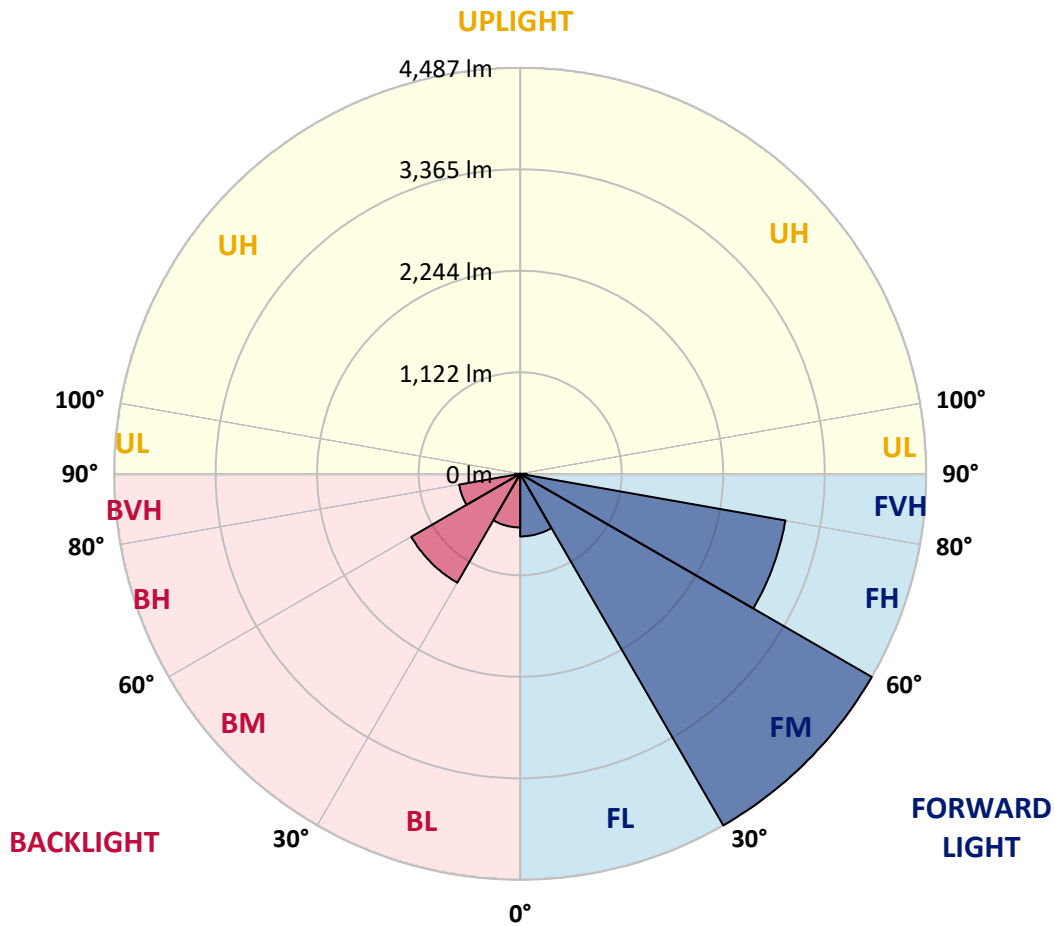
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	691.9	6.3			
FM (30°-60°)	4487.2	41.0			
FH (60°-80°)	2976.5	27.2			G2/5000
FVH (80°-90°)	71.7	0.7			G1/100
BL (0°-30°)	593.1	5.4	B2/1000		
BM (30°-60°)	1389.7	12.7	B2/2500		
BH (60°-80°)	685.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	54.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5
2.5°	1201.8	1208.7	1207.0	1204.1	1203.6	1204.7	1206.4	1208.2	1207.6	1210.5
5°	1198.4	1205.3	1204.7	1204.7	1207.0	1211.6	1214.5	1217.4	1214.5	1218.0
7.5°	1200.7	1205.9	1208.2	1210.5	1216.2	1224.9	1231.8	1238.1	1234.6	1238.7
10°	1230.0	1234.1	1236.4	1236.4	1240.4	1250.2	1257.1	1268.6	1265.7	1272.0
12.5°	1283.5	1287.6	1287.6	1285.3	1288.1	1294.5	1296.8	1309.4	1304.2	1314.6
15°	1349.1	1357.2	1350.9	1346.8	1348.0	1354.3	1353.7	1363.5	1358.3	1367.0
17.5°	1421.6	1432.0	1421.6	1421.0	1418.7	1425.6	1426.2	1434.8	1425.6	1432.0
20°	1507.3	1521.7	1513.1	1516.0	1510.8	1513.7	1516.5	1529.2	1514.8	1519.4
22.5°	1628.2	1645.4	1636.2	1647.1	1643.7	1641.4	1640.8	1663.2	1640.8	1642.5
25°	1804.2	1824.9	1808.8	1823.8	1823.8	1831.2	1839.9	1868.6	1831.2	1820.3
27.5°	2064.2	2085.0	2053.3	2062.5	2059.6	2078.1	2068.8	2140.2	2099.9	2082.1
30°	2377.2	2414.0	2354.2	2351.9	2349.0	2378.4	2391.6	2438.8	2397.9	2380.1
32.5°	2715.5	2754.1	2682.7	2662.0	2651.1	2668.9	2658.0	2695.9	2667.8	2640.1
35°	3073.4	3111.3	3043.4	3003.2	2959.4	2922.0	2882.9	2892.7	2866.2	2824.2
37.5°	3411.6	3481.3	3409.3	3366.2	3285.7	3212.6	3103.3	3057.8	3033.1	2994.5
40°	3756.3	3796.0	3741.3	3704.5	3617.0	3502.5	3327.6	3231.6	3198.2	3160.8
42.5°	4010.0	4047.9	4018.6	3993.3	3924.8	3791.9	3565.8	3445.6	3397.3	3355.3
45°	4211.3	4239.5	4221.1	4230.3	4201.0	4072.1	3812.6	3675.1	3625.1	3573.9
47.5°	4292.5	4322.4	4351.7	4406.4	4456.4	4361.5	4077.9	3923.7	3870.8	3818.4
50°	4283.3	4313.7	4398.9	4515.1	4670.4	4638.8	4357.5	4188.3	4139.4	4079.6
52.5°	4209.6	4244.1	4353.4	4546.8	4794.1	4846.5	4642.3	4461.6	4415.6	4344.2
55°	4016.3	4037.0	4201.0	4474.8	4823.5	4991.5	4921.3	4752.7	4706.7	4607.2
57.5°	3657.9	3687.8	3926.6	4281.0	4749.8	5089.9	5166.4	5058.8	5014.5	4871.2
60°	3190.1	3237.9	3511.2	3955.3	4562.3	5089.3	5389.0	5359.7	5322.9	5131.3
62.5°	2660.9	2716.1	2979.0	3495.1	4234.4	4944.9	5528.2	5611.7	5592.7	5371.2
65°	2043.5	2081.5	2343.3	2899.6	3724.0	4634.8	5544.4	5783.7	5787.1	5553.6
67.5°	1360.6	1469.9	1697.2	2175.9	3040.6	4127.9	5402.8	5811.9	5845.2	5616.3
70°	663.9	807.7	1030.4	1414.1	2175.9	3350.7	5032.9	5580.6	5654.8	5433.3
72.5°	275.6	322.2	443.6	697.9	1249.0	2261.0	4289.6	4953.5	5091.0	4814.3
75°	185.8	201.4	253.7	357.8	569.0	1115.0	3093.5	3693.6	3915.0	3636.0
77.5°	143.3	153.0	184.7	250.3	338.3	421.7	1655.8	2225.9	2340.4	2166.7
80°	112.8	120.2	138.1	182.4	239.9	225.5	564.4	1008.5	1074.7	901.5
82.5°	97.8	100.7	99.0	123.7	159.4	131.7	185.3	372.2	410.8	298.0
85°	70.8	78.8	82.3	76.5	84.6	66.7	75.9	131.7	145.0	129.4
87.5°	28.8	42.6	52.4	49.5	31.1	19.0	23.6	38.5	44.3	48.3
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°
1214.5	0°	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5	1214.5
1215.1	2.5°	1215.7	1219.7	1222.6	1226.0	1228.3	1231.8	1238.7	1242.7	1243.3	1246.1
1224.3	5°	1226.6	1232.3	1238.7	1247.9	1258.2	1266.9	1280.1	1289.3	1292.7	1295.6
1246.7	7.5°	1250.2	1258.2	1269.7	1285.8	1300.8	1312.3	1328.4	1339.3	1350.3	1354.3
1282.4	10°	1285.3	1296.8	1313.5	1335.3	1351.4	1366.4	1383.1	1392.3	1403.2	1407.8
1325.0	12.5°	1329.0	1341.1	1362.9	1393.4	1408.4	1418.7	1424.5	1422.2	1424.5	1428.5
1376.2	15°	1379.0	1392.3	1417.0	1449.8	1460.2	1451.0	1438.3	1426.8	1425.1	1426.2
1438.3	17.5°	1438.3	1448.1	1476.8	1504.5	1497.0	1459.0	1431.4	1413.0	1403.8	1400.9
1517.7	20°	1521.1	1521.1	1544.7	1562.0	1511.9	1447.5	1404.4	1374.4	1355.5	1347.4
1625.9	22.5°	1621.8	1612.6	1627.6	1615.5	1509.1	1415.3	1355.5	1303.7	1274.9	1263.4
1777.2	25°	1749.5	1738.6	1734.6	1659.8	1488.4	1364.1	1266.9	1204.1	1178.8	1172.5
1995.2	27.5°	1942.3	1914.7	1862.3	1684.0	1450.4	1283.5	1163.3	1105.2	1090.8	1091.4
2275.4	30°	2198.9	2143.6	2015.3	1688.0	1388.2	1169.6	1057.4	1016.0	1009.1	1012.0
2510.7	32.5°	2436.5	2384.1	2171.8	1669.6	1292.7	1058.0	962.5	934.9	924.5	928.0
2690.2	35°	2622.9	2608.5	2316.8	1643.7	1175.4	953.3	877.4	853.8	833.6	829.0
2859.3	37.5°	2798.9	2793.2	2425.5	1607.4	1059.2	879.1	808.9	777.8	748.5	732.4
3046.3	40°	2992.2	2986.5	2496.9	1551.6	956.2	814.7	747.3	706.5	670.2	640.9
3258.0	42.5°	3209.7	3175.8	2530.8	1471.7	868.7	760.0	697.3	642.1	594.3	567.3
3497.4	45°	3447.3	3370.8	2530.3	1369.8	795.1	709.9	643.8	565.5	521.2	495.9
3743.0	47.5°	3699.3	3557.2	2499.2	1257.1	723.8	654.7	560.9	501.1	471.8	456.2
4010.0	50°	3959.3	3731.5	2446.3	1127.6	650.7	592.0	509.2	468.3	445.9	431.5
4274.6	52.5°	4203.9	3889.7	2382.4	980.9	576.5	531.0	486.1	454.5	430.9	414.8
4531.2	55°	4431.1	4026.1	2292.1	830.8	516.1	490.2	475.2	448.7	421.7	402.7
4791.8	57.5°	4633.0	4114.7	2136.2	689.8	472.9	462.0	463.7	439.0	407.9	391.8
5048.4	60°	4801.0	4179.7	1905.5	559.2	437.8	434.4	445.9	420.6	384.3	365.9
5265.3	62.5°	4901.7	4178.5	1622.4	458.0	407.9	409.1	422.3	397.5	360.7	343.5
5378.7	65°	4893.1	4076.1	1311.7	391.8	379.1	380.3	397.5	372.2	341.2	330.8
5321.7	67.5°	4719.9	3826.5	1006.2	348.6	347.5	352.7	372.8	355.0	329.1	327.9
4982.3	70°	4251.0	3308.1	724.9	314.1	314.7	322.2	348.6	344.0	322.8	325.1
4188.9	72.5°	3408.8	2522.2	486.7	277.9	278.5	290.5	325.6	335.4	316.4	346.9
2972.1	75°	2270.2	1572.9	313.0	239.3	239.9	255.4	305.5	318.7	299.2	345.8
1546.5	77.5°	1090.8	707.1	226.7	201.4	201.4	215.7	264.1	285.4	254.9	268.7
497.1	80°	376.8	265.8	178.3	162.2	158.8	168.6	222.6	247.4	219.8	202.5
162.2	82.5°	148.4	138.1	143.3	126.0	114.5	120.8	173.2	204.2	161.7	146.1
91.5	85°	85.1	89.7	101.3	83.4	66.2	74.2	127.1	146.7	122.0	107.6
29.9	87.5°	23.0	31.6	46.6	43.1	29.9	31.6	60.4	81.1	70.2	54.1
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>
1214.5
1245.6
1295.0
1354.9
1410.1
1429.7
1430.2
1404.9
1345.7
1261.7
1173.7
1093.1
1021.8
932.6
832.5
733.0
643.8
569.0
494.8
452.8
426.3
407.9
395.2
381.4
357.8
338.3
330.2
329.7
324.5
351.5
348.6
246.2
189.9
145.6
109.9
55.8
0.0

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