

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: P940239

Luminaire Tested: **GALN-SB3A-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9254 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

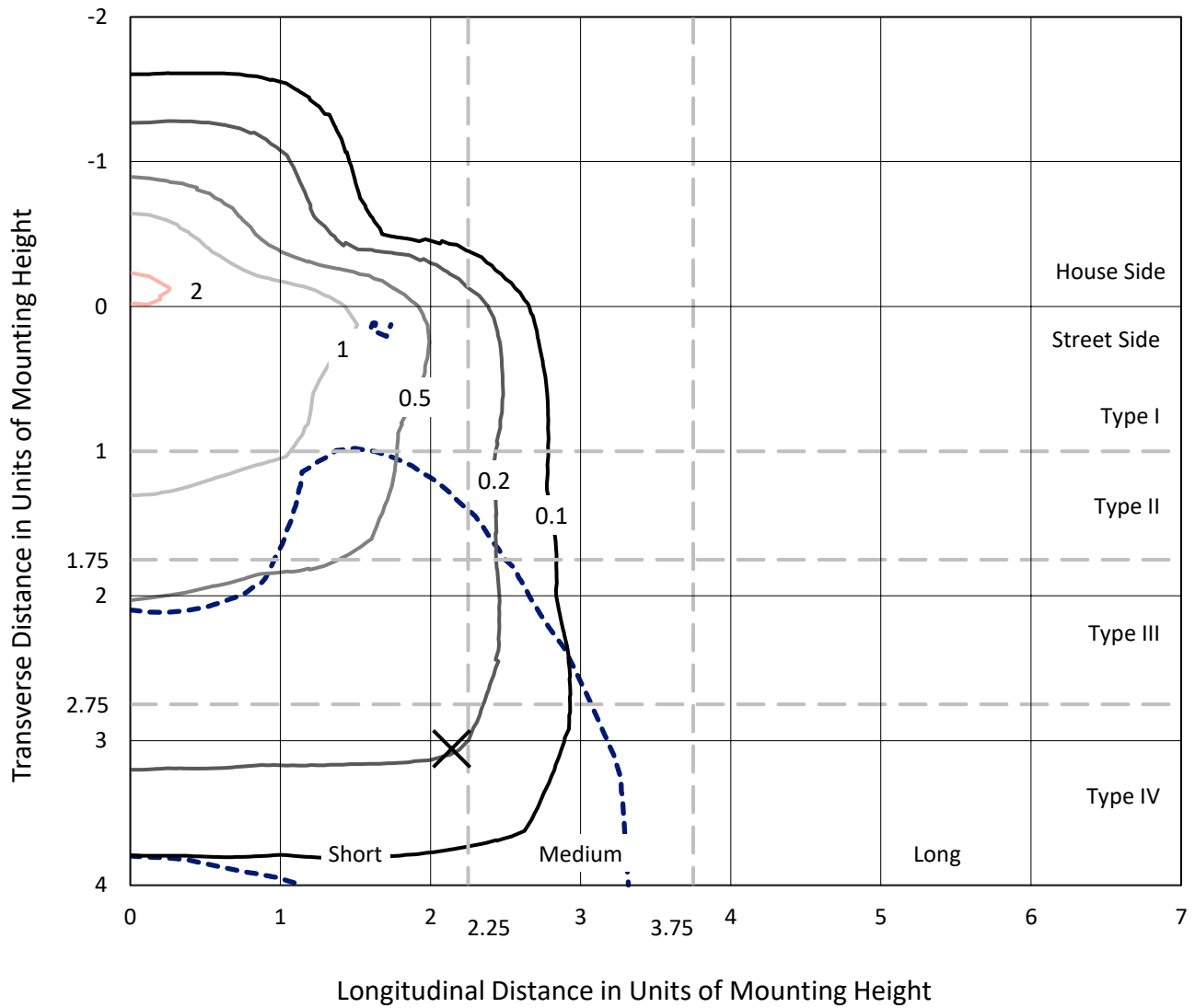
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

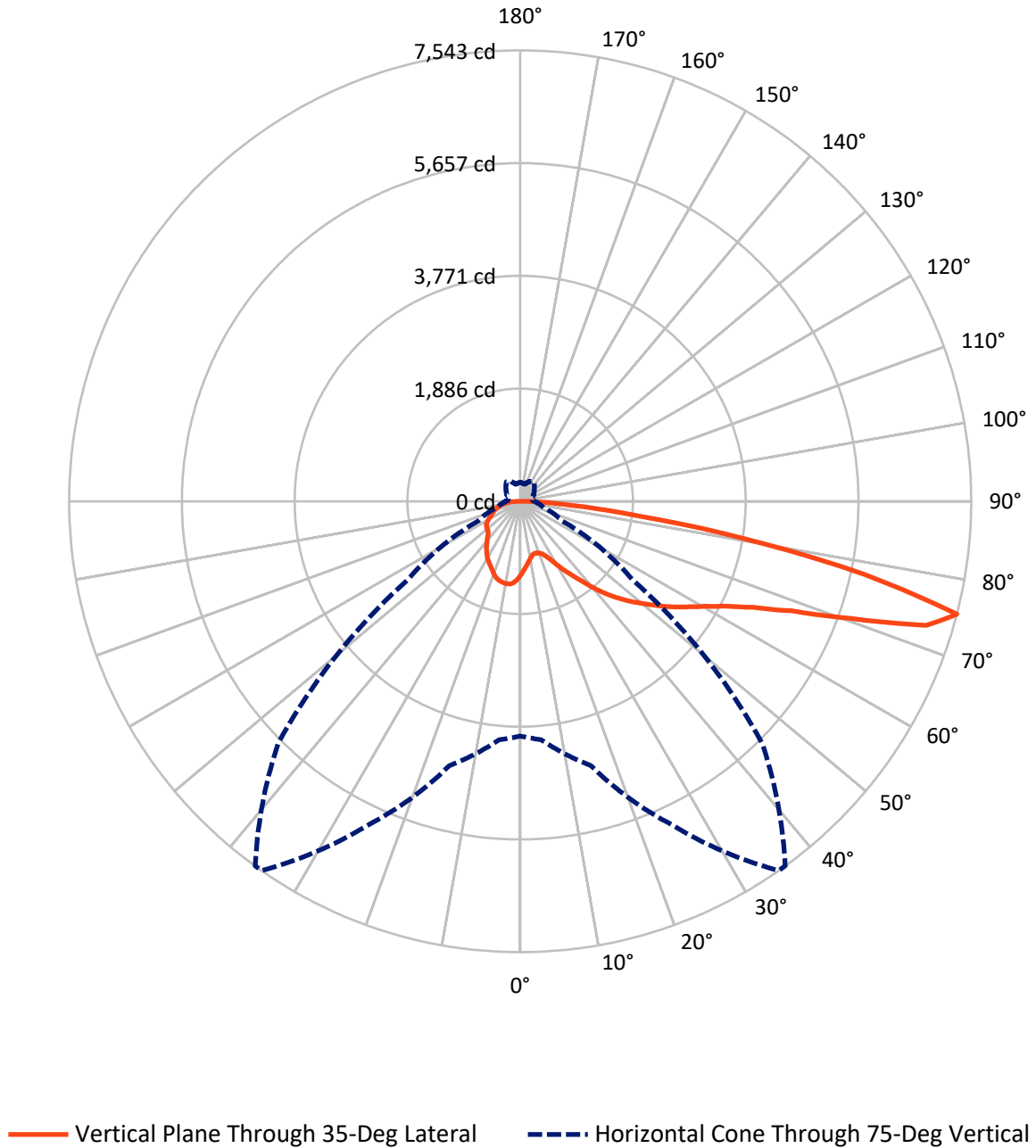
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2202.2	0.0	2202.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7051.8	0.0	7051.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	9254.0	0.0	9254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.3
10°-20°	336.8	3.6
20°-30°	565.5	6.1
30°-40°	878.9	9.5
40°-50°	1304.5	14.1
50°-60°	1801.0	19.5
60°-70°	2185.0	23.6
70°-80°	1805.8	19.5
80°-90°	259.7	2.8
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°	9254.0	100.0
0°-180°	9254.0	100.0

Coefficient of Utilization



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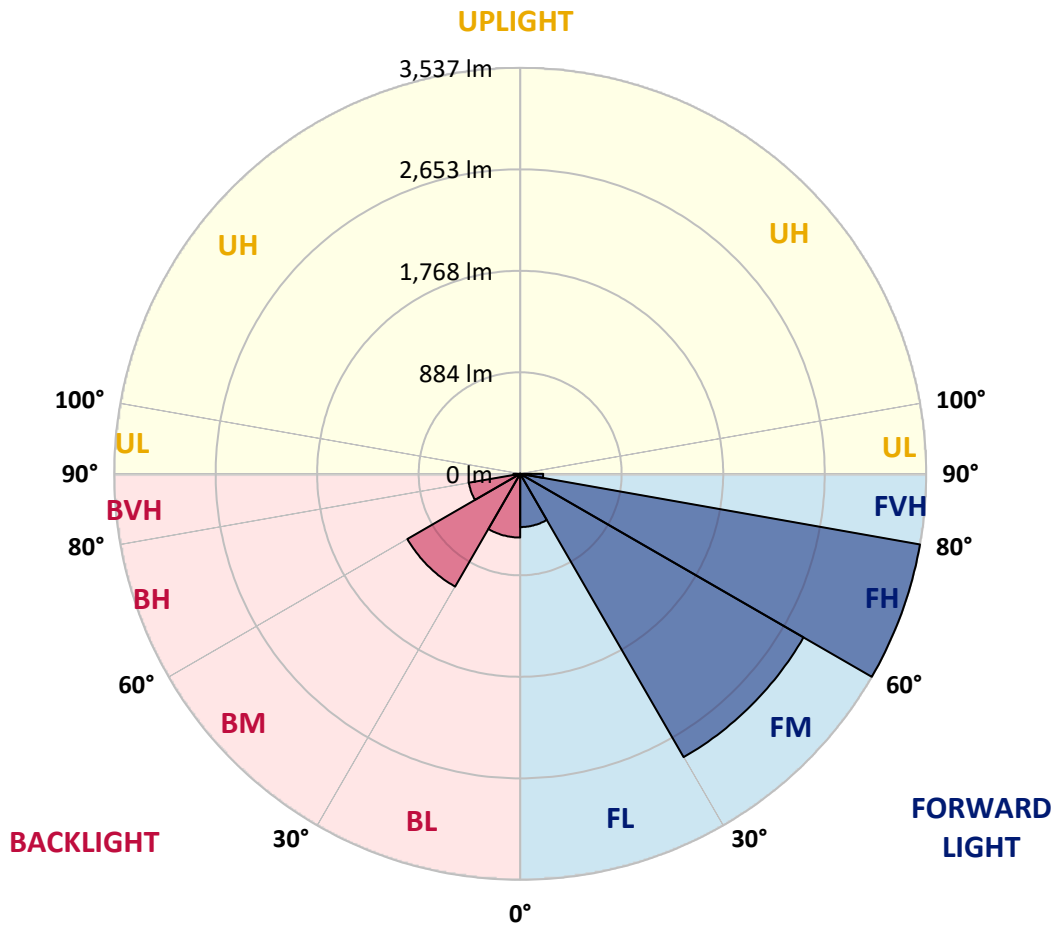
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.1	5.0			
FM (30°-60°)	2849.7	30.8			
FH (60°-80°)	3536.7	38.2			G2/5000
FVH (80°-90°)	201.2	2.2			G2/225
BL (0°-30°)	555.0	6.0	B2/1000		
BM (30°-60°)	1134.7	12.3	B2/2500		
BH (60°-80°)	454.0	4.9	B1/500		G1/500
BVH (80°-90°)	58.5	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2
2.5°	1137.1	1144.1	1147.1	1145.6	1153.1	1152.1	1162.6	1175.6	1193.6	1211.1
5°	1049.6	1057.1	1063.6	1069.6	1084.1	1088.6	1105.1	1130.1	1163.1	1196.6
7.5°	968.0	974.5	984.5	995.5	1020.0	1024.5	1052.1	1091.1	1137.1	1186.1
10°	901.5	908.0	918.5	931.0	961.5	967.0	1002.0	1054.1	1114.1	1176.1
12.5°	873.0	875.0	881.0	893.5	920.0	923.5	962.0	1021.5	1091.6	1168.6
15°	871.5	875.5	876.0	882.5	904.5	906.0	941.5	1000.5	1077.6	1167.1
17.5°	886.5	889.5	885.0	889.0	907.5	910.0	938.0	990.5	1073.1	1173.6
20°	926.5	929.0	915.5	910.0	923.5	925.5	953.0	997.0	1077.6	1187.1
22.5°	1011.5	1013.0	980.0	957.5	958.5	959.5	983.5	1023.5	1095.1	1211.6
25°	1144.1	1143.1	1090.6	1047.1	1022.0	1016.5	1032.6	1066.6	1124.6	1244.2
27.5°	1299.2	1291.7	1239.2	1174.1	1119.6	1111.6	1108.1	1122.6	1166.6	1287.2
30°	1474.3	1467.3	1410.8	1325.7	1250.2	1237.2	1204.1	1196.6	1229.2	1345.7
32.5°	1666.4	1661.9	1594.4	1491.3	1390.2	1375.2	1319.7	1299.7	1325.2	1434.3
35°	1827.5	1823.5	1767.4	1661.4	1537.8	1519.3	1462.8	1440.3	1453.3	1547.8
37.5°	1973.1	1971.1	1923.0	1839.5	1711.9	1689.4	1625.9	1618.4	1615.9	1697.4
40°	2108.1	2103.1	2053.1	2009.1	1914.5	1894.0	1838.0	1831.5	1812.5	1881.5
42.5°	2257.7	2244.7	2172.2	2151.6	2126.1	2109.1	2075.6	2076.6	2034.6	2089.1
45°	2379.8	2372.3	2297.7	2285.7	2313.2	2306.2	2335.2	2342.8	2261.2	2306.7
47.5°	2510.8	2503.8	2440.8	2432.3	2506.8	2508.8	2611.4	2613.9	2482.3	2532.9
50°	2672.4	2662.4	2599.9	2610.4	2693.9	2701.4	2889.0	2872.0	2685.9	2762.5
52.5°	2779.0	2785.0	2771.5	2788.5	2902.5	2909.6	3162.2	3118.7	2887.5	2989.1
55°	2857.5	2869.5	2911.6	2950.6	3122.7	3129.7	3419.8	3353.3	3054.6	3199.2
57.5°	2958.6	2941.6	3020.1	3096.2	3331.8	3350.3	3670.5	3579.4	3202.7	3380.3
60°	3103.7	3091.6	3152.7	3265.2	3565.9	3595.4	3935.6	3783.0	3311.3	3523.9
62.5°	3397.8	3367.8	3377.3	3476.9	3861.1	3900.1	4234.8	3960.6	3365.3	3579.9
65°	3837.5	3786.0	3738.0	3807.0	4276.8	4315.3	4572.4	4100.2	3345.3	3471.4
67.5°	4391.3	4340.3	4281.3	4346.3	4889.1	4919.6	4989.2	4178.7	3187.7	3053.1
70°	4848.1	4829.1	4899.6	5167.3	5867.1	5868.1	5523.4	4113.7	2756.0	2164.7
72.5°	4787.6	4776.0	5147.7	5975.2	7099.8	7073.3	6029.2	3621.4	1856.5	976.5
75°	3927.6	4002.1	4577.9	5960.7	7542.5	7539.0	5719.6	2302.2	767.9	404.7
77.5°	2106.1	2224.2	2972.1	4400.8	5888.1	5976.7	4021.1	805.4	329.7	259.1
80°	686.9	789.9	1184.6	2240.7	3826.0	3809.5	1723.4	316.2	225.6	183.6
82.5°	291.7	303.7	529.3	1058.1	1963.5	1933.0	548.8	181.6	158.6	125.6
85°	114.1	127.6	233.6	489.3	850.5	831.9	198.1	90.0	101.6	82.0
87.5°	37.5	45.5	83.5	167.6	264.6	255.1	48.5	31.0	44.0	37.5
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°
1233.2	0°	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2
1236.7	2.5°	1243.7	1251.7	1261.2	1275.2	1287.2	1297.2	1307.7	1314.2	1316.7	1324.2
1238.7	5°	1252.7	1270.2	1293.7	1316.7	1339.2	1352.7	1364.7	1370.7	1376.2	1380.2
1244.2	7.5°	1267.7	1290.2	1327.2	1357.2	1376.2	1387.2	1395.2	1393.2	1395.2	1396.2
1250.2	10°	1280.7	1312.2	1356.2	1384.7	1399.2	1399.7	1397.7	1390.7	1387.2	1387.7
1259.2	12.5°	1296.2	1331.2	1378.7	1402.7	1406.8	1395.7	1387.2	1375.2	1370.7	1368.7
1272.7	15°	1317.2	1357.2	1403.2	1412.3	1402.2	1388.2	1373.7	1354.2	1344.2	1336.2
1295.7	17.5°	1342.7	1386.7	1422.3	1415.8	1394.2	1371.2	1347.7	1318.2	1297.7	1289.2
1327.2	20°	1378.2	1417.8	1436.8	1408.3	1375.7	1340.7	1300.7	1264.7	1245.7	1237.2
1367.2	22.5°	1421.3	1459.3	1450.8	1395.2	1349.2	1293.2	1243.2	1216.6	1207.1	1201.1
1418.8	25°	1472.8	1505.3	1460.8	1376.2	1305.7	1230.2	1191.6	1183.1	1178.6	1174.1
1481.8	27.5°	1539.8	1557.3	1468.3	1348.2	1237.7	1163.1	1149.1	1150.6	1149.1	1141.6
1569.3	30°	1628.4	1624.9	1475.3	1302.7	1159.6	1102.6	1103.6	1110.1	1111.1	1106.1
1691.4	32.5°	1744.9	1709.4	1478.8	1243.7	1085.1	1049.6	1050.6	1057.6	1062.6	1054.1
1851.0	35°	1886.0	1808.0	1473.3	1169.6	1027.5	999.0	991.5	993.5	995.0	987.0
2044.6	37.5°	2050.6	1918.5	1448.8	1087.6	980.0	949.5	933.5	920.0	912.0	904.5
2263.7	40°	2231.2	2039.1	1403.7	1007.5	927.0	897.0	873.0	847.5	820.4	810.4
2495.8	42.5°	2420.3	2163.2	1349.2	931.0	866.0	841.4	815.9	778.9	738.4	717.9
2737.0	45°	2616.4	2290.2	1295.7	855.5	803.4	792.9	763.4	718.9	674.9	648.8
2978.6	47.5°	2808.5	2410.3	1217.1	779.4	744.9	756.4	733.4	692.4	643.3	602.3
3218.2	50°	2992.1	2522.8	1088.6	702.4	697.4	745.4	723.4	664.4	608.3	555.8
3453.3	52.5°	3174.2	2613.9	924.0	632.3	671.9	742.4	710.4	645.3	576.8	521.8
3674.5	55°	3328.8	2660.9	765.4	572.3	634.8	716.9	694.9	622.8	532.3	473.8
3826.0	57.5°	3416.8	2622.9	633.3	513.3	583.8	674.9	668.4	574.8	479.3	434.2
3855.6	60°	3378.8	2468.8	525.3	461.7	535.3	629.3	622.3	527.3	438.7	396.2
3697.5	62.5°	3169.2	2175.2	439.7	416.7	491.3	582.8	576.3	490.8	407.7	366.7
3277.7	65°	2747.0	1769.4	373.2	379.2	446.7	526.8	536.3	460.2	383.2	343.2
2535.9	67.5°	2095.1	1281.7	321.2	346.7	403.2	471.8	499.3	438.2	362.7	324.7
1467.3	70°	1194.1	727.9	277.1	315.2	364.7	420.7	470.8	420.7	340.7	309.2
549.8	72.5°	452.7	334.2	239.6	283.7	327.7	377.7	439.2	393.2	315.2	291.7
284.2	75°	241.6	203.6	201.6	246.6	285.2	335.7	399.7	366.2	296.2	308.2
196.6	77.5°	164.6	144.1	168.6	211.1	238.6	289.2	357.7	325.2	256.6	255.6
136.1	80°	114.1	102.1	137.1	170.1	184.6	243.1	312.2	279.1	209.1	195.1
84.0	82.5°	68.5	66.5	102.6	127.1	130.6	187.6	258.6	234.1	171.1	149.1
50.0	85°	37.5	39.5	65.5	74.5	76.0	131.1	202.6	181.1	131.6	110.6
18.0	87.5°	10.5	13.5	24.0	29.5	36.5	68.0	120.6	107.6	66.0	46.0
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>
1233.2
1323.7
1381.2
1397.7
1388.7
1367.7
1338.7
1289.7
1236.2
1202.1
1174.1
1143.1
1108.6
1058.1
992.5
909.5
814.9
720.4
646.8
597.8
551.3
515.8
468.8
428.2
390.2
360.2
336.7
318.7
305.2
287.7
<i>318.2</i>
235.6
186.6
150.1
111.6
46.0
0.0

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