

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: P939439

Luminaire Tested: **GALN-SB2A-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939439
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-SB2A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9380 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

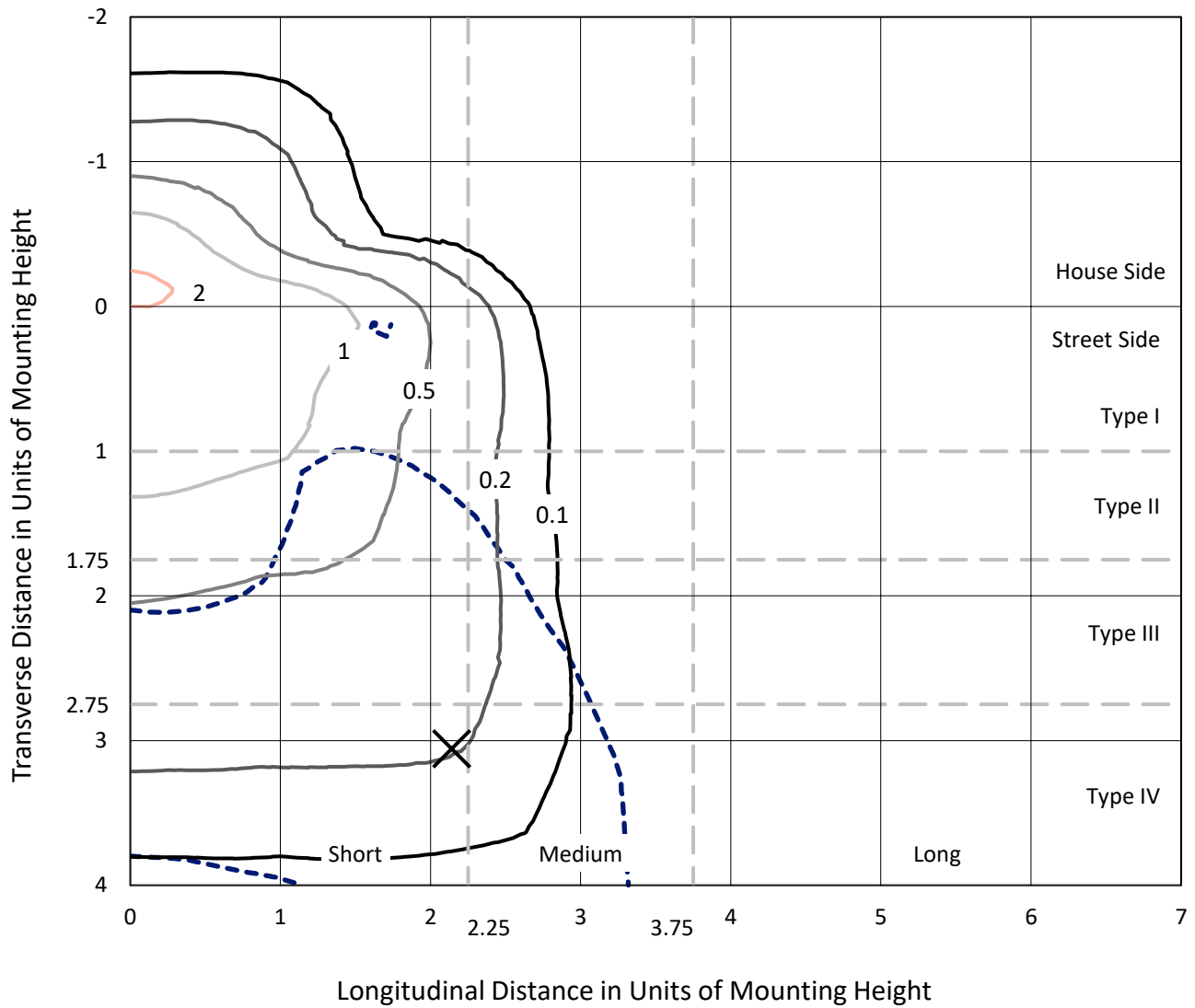
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

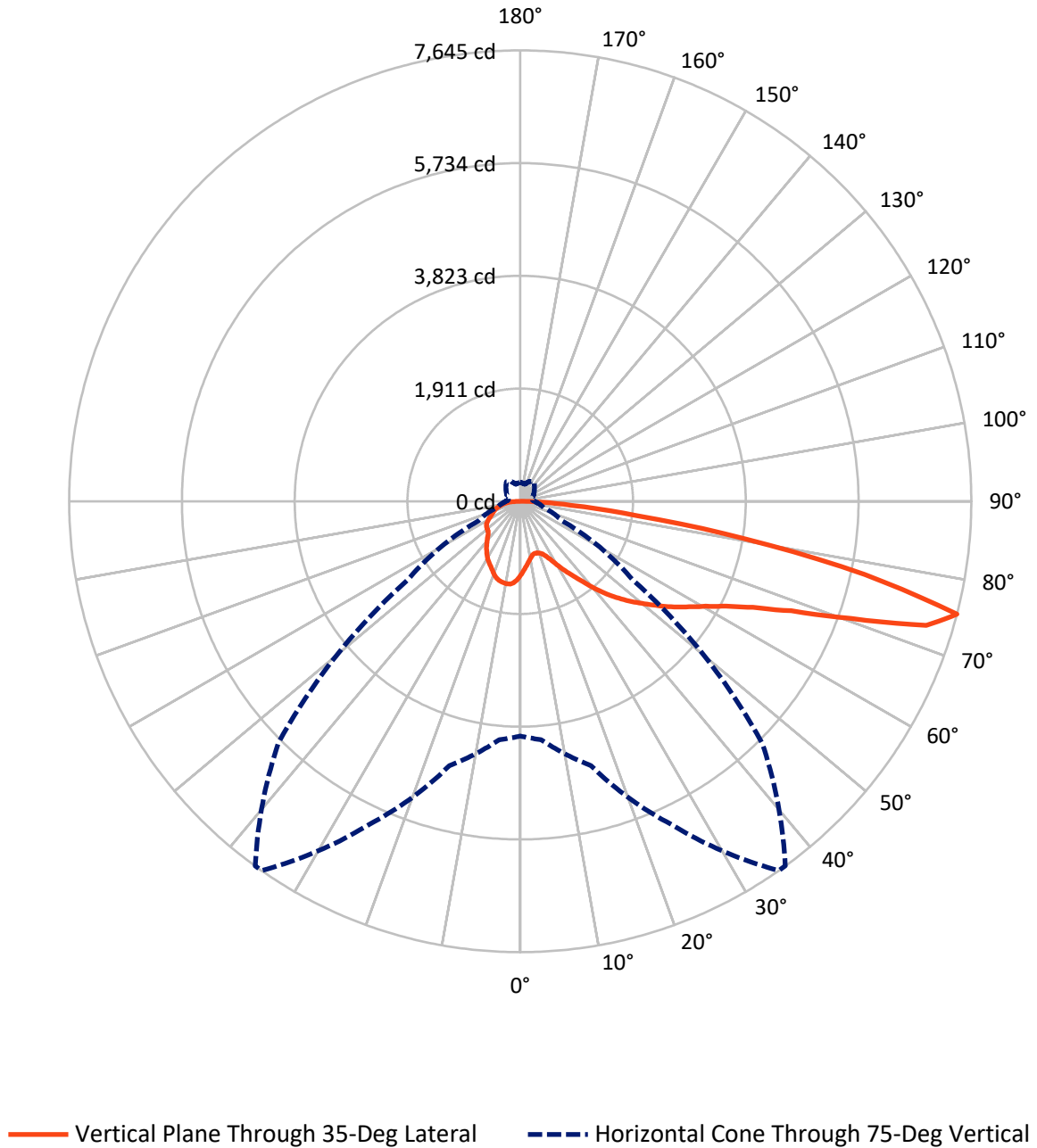
× Max cd
 - - - 1/2 Max cd



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	2232.2	0.0	2232.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7147.8	0.0	7147.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	9380.0	0.0	9380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.3
10°-20°	341.4	3.6
20°-30°	573.2	6.1
30°-40°	890.9	9.5
40°-50°	1322.3	14.1
50°-60°	1825.5	19.5
60°-70°	2214.8	23.6
70°-80°	1830.3	19.5
80°-90°	263.3	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°	9380.0	100.0
0°-180°	9380.0	100.0

Coefficient of Utilization



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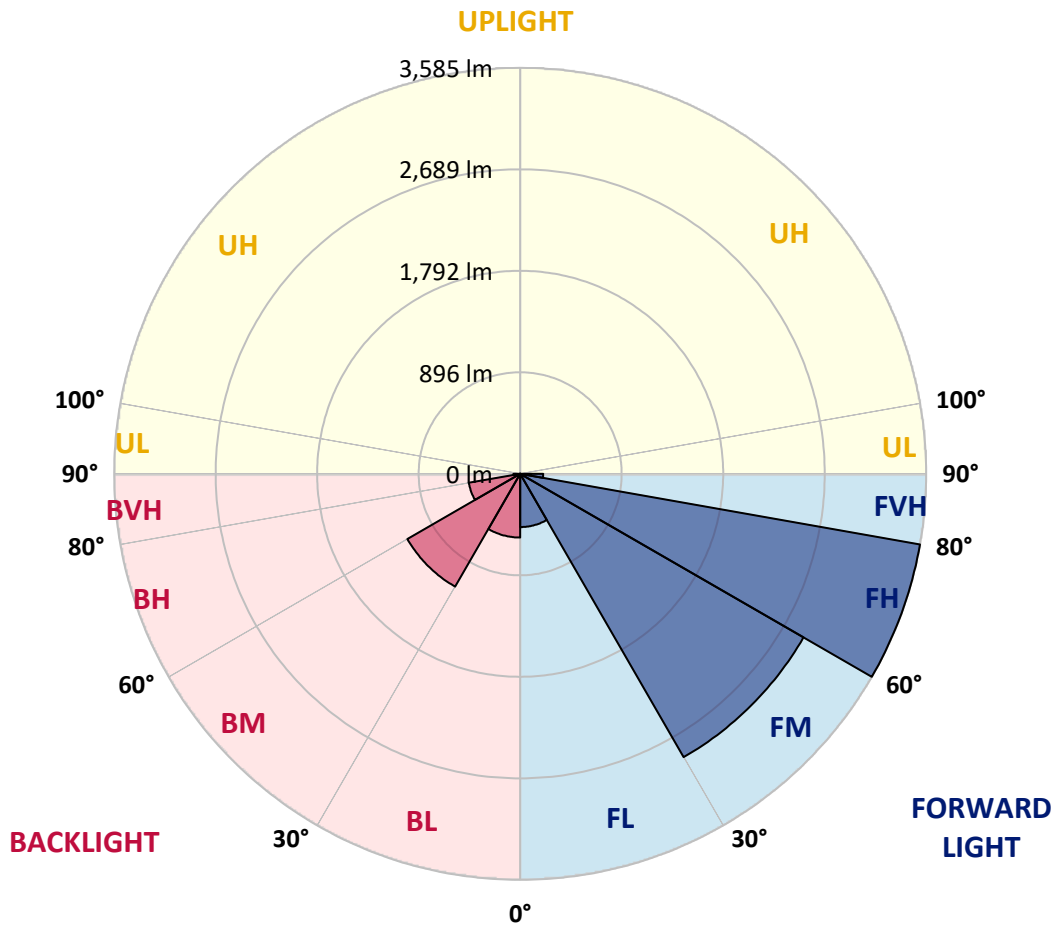
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.4	5.0			
FM (30°-60°)	2888.5	30.8			
FH (60°-80°)	3584.9	38.2			G2/5000
FVH (80°-90°)	204.0	2.2			G2/225
BL (0°-30°)	562.5	6.0	B2/1000		
BM (30°-60°)	1150.2	12.3	B2/2500		
BH (60°-80°)	460.2	4.9	B1/500		G1/500
BVH (80°-90°)	59.3	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°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9
2.5°	1152.6	1159.7	1162.7	1161.2	1168.8	1167.8	1178.5	1191.6	1209.9	1227.6
5°	1063.9	1071.5	1078.0	1084.1	1098.8	1103.4	1120.1	1145.5	1179.0	1212.9
7.5°	981.2	987.8	997.9	1009.1	1033.9	1038.5	1066.4	1105.9	1152.6	1202.3
10°	913.8	920.3	931.0	943.7	974.6	980.2	1015.7	1068.4	1129.3	1192.1
12.5°	884.9	886.9	893.0	905.6	932.5	936.1	975.1	1035.5	1106.4	1184.5
15°	883.3	887.4	887.9	894.5	916.8	918.3	954.3	1014.2	1092.2	1183.0
17.5°	898.5	901.6	897.0	901.1	919.8	922.4	950.8	1004.0	1087.7	1189.6
20°	939.1	941.6	928.0	922.4	936.1	938.1	966.0	1010.6	1092.2	1203.3
22.5°	1025.3	1026.8	993.4	970.5	971.6	972.6	996.9	1037.5	1110.0	1228.1
25°	1159.7	1158.7	1105.4	1061.3	1036.0	1030.4	1046.6	1081.1	1139.9	1261.1
27.5°	1316.9	1309.3	1256.0	1190.1	1134.8	1126.7	1123.2	1137.9	1182.5	1304.7
30°	1494.4	1487.3	1430.0	1343.8	1267.2	1254.0	1220.5	1212.9	1245.9	1364.0
32.5°	1689.1	1684.5	1616.1	1511.6	1409.2	1394.0	1337.7	1317.4	1343.3	1453.8
35°	1852.4	1848.3	1791.5	1684.0	1558.8	1540.0	1482.7	1459.9	1473.1	1568.9
37.5°	1999.9	1997.9	1949.2	1864.5	1735.2	1712.4	1648.0	1640.4	1637.9	1720.5
40°	2136.8	2131.8	2081.1	2036.4	1940.6	1919.8	1863.0	1856.4	1837.1	1907.1
42.5°	2288.4	2275.3	2201.7	2180.9	2155.1	2137.8	2103.9	2104.9	2062.3	2117.6
45°	2412.2	2404.6	2329.0	2316.8	2344.7	2337.6	2367.0	2374.6	2292.0	2338.1
47.5°	2545.0	2537.9	2474.0	2465.4	2541.0	2543.0	2646.9	2649.5	2516.1	2567.3
50°	2708.8	2698.7	2635.3	2645.9	2730.6	2738.2	2928.4	2911.1	2722.5	2800.1
52.5°	2816.8	2822.9	2809.2	2826.5	2942.1	2949.2	3205.2	3161.1	2926.9	3029.8
55°	2896.4	2908.6	2951.2	2990.7	3165.2	3172.3	3466.4	3398.9	3096.2	3242.8
57.5°	2998.9	2981.6	3061.2	3138.3	3377.1	3395.9	3720.4	3628.1	3246.3	3426.3
60°	3145.9	3133.7	3195.6	3309.7	3614.5	3644.4	3989.2	3834.5	3356.4	3571.9
62.5°	3444.1	3413.7	3423.3	3524.2	3913.6	3953.2	4292.4	4014.5	3411.1	3628.7
65°	3889.8	3837.6	3788.9	3858.9	4335.0	4374.1	4634.7	4156.0	3390.8	3518.6
67.5°	4451.1	4399.4	4339.6	4405.5	4955.7	4986.6	5057.1	4235.6	3231.1	3094.7
70°	4914.1	4894.8	4966.3	5237.6	5947.0	5948.0	5598.7	4169.7	2793.5	2194.1
72.5°	4852.7	4841.1	5217.8	6056.5	7196.5	7169.6	6111.3	3670.7	1881.8	989.8
75°	3981.1	4056.6	4640.3	6041.8	7645.2	7641.7	5797.4	2333.6	778.4	410.2
77.5°	2134.8	2254.5	3012.6	4460.8	5968.3	6058.1	4075.9	816.4	334.2	262.7
80°	696.2	800.7	1200.8	2271.2	3878.1	3861.4	1746.9	320.5	228.7	186.1
82.5°	295.6	307.8	536.5	1072.5	1990.3	1959.4	556.3	184.1	160.7	127.3
85°	115.6	129.3	236.8	495.9	862.0	843.3	200.8	91.3	102.9	83.2
87.5°	38.0	46.1	84.7	169.9	268.2	258.6	49.2	31.4	44.6	38.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1249.9	0°	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9	1249.9
1253.5	2.5°	1260.6	1268.7	1278.3	1292.5	1304.7	1314.9	1325.5	1332.1	1334.6	1342.2
1255.5	5°	1269.7	1287.5	1311.3	1334.6	1357.4	1371.1	1383.3	1389.4	1395.0	1399.0
1261.1	7.5°	1284.9	1307.8	1345.3	1375.7	1395.0	1406.1	1414.2	1412.2	1414.2	1415.3
1267.2	10°	1298.1	1330.1	1374.7	1403.6	1418.3	1418.8	1416.8	1409.7	1406.1	1406.6
1276.3	12.5°	1313.8	1349.3	1397.5	1421.8	1425.9	1414.7	1406.1	1394.0	1389.4	1387.4
1290.0	15°	1335.1	1375.7	1422.4	1431.5	1421.3	1407.1	1392.4	1372.7	1362.5	1354.4
1313.3	17.5°	1361.0	1405.6	1441.6	1435.0	1413.2	1389.9	1366.1	1336.2	1315.4	1306.7
1345.3	20°	1397.0	1437.1	1456.3	1427.4	1394.5	1359.0	1318.4	1281.9	1262.6	1254.0
1385.8	22.5°	1440.6	1479.1	1470.5	1414.2	1367.6	1310.8	1260.1	1233.2	1223.6	1217.5
1438.1	25°	1492.8	1525.8	1480.7	1395.0	1323.5	1246.9	1207.9	1199.2	1194.7	1190.1
1502.0	27.5°	1560.8	1578.5	1488.3	1366.6	1254.5	1179.0	1164.8	1166.3	1164.8	1157.2
1590.7	30°	1650.5	1647.0	1495.4	1320.4	1175.4	1117.6	1118.6	1125.2	1126.2	1121.2
1714.4	32.5°	1768.7	1732.7	1498.9	1260.6	1099.9	1063.9	1064.9	1072.0	1077.0	1068.4
1876.2	35°	1911.7	1832.6	1493.3	1185.5	1041.5	1012.6	1005.0	1007.1	1008.6	1000.5
2072.4	37.5°	2078.5	1944.6	1468.5	1102.4	993.4	962.4	946.2	932.5	924.4	916.8
2294.5	40°	2261.6	2066.9	1422.9	1021.3	939.6	909.2	884.9	859.0	831.6	821.5
2529.8	42.5°	2453.2	2192.6	1367.6	943.7	877.8	852.9	827.0	789.5	748.4	727.7
2774.2	45°	2652.0	2321.4	1313.3	867.1	814.4	803.7	773.8	728.7	684.0	657.7
3019.1	47.5°	2846.7	2443.1	1233.7	790.0	755.0	766.7	743.4	701.8	652.1	610.5
3262.0	50°	3032.8	2557.2	1103.4	711.9	706.9	755.5	733.2	673.4	616.6	563.4
3500.4	52.5°	3217.4	2649.5	936.6	640.9	681.0	752.5	720.1	654.1	584.7	528.9
3724.5	55°	3374.1	2697.2	775.8	580.1	643.5	726.6	704.3	631.3	539.5	480.2
3878.1	57.5°	3463.3	2658.6	642.0	520.3	591.8	684.0	677.5	582.6	485.8	440.1
3908.1	60°	3424.8	2502.4	532.4	468.0	542.6	637.9	630.8	534.5	444.7	401.6
3747.8	62.5°	3212.3	2204.8	445.7	422.4	498.0	590.7	584.2	497.4	413.3	371.7
3322.4	65°	2784.4	1793.5	378.3	384.4	452.8	534.0	543.6	466.5	388.4	347.9
2570.4	67.5°	2123.6	1299.1	325.5	351.4	408.7	478.2	506.1	444.2	367.6	329.1
1487.3	70°	1210.4	737.8	280.9	319.5	369.7	426.5	477.2	426.5	345.3	313.4
557.3	72.5°	458.9	338.7	242.9	287.5	332.1	382.8	445.2	398.6	319.5	295.6
288.0	75°	244.9	206.4	204.4	250.0	289.0	340.2	405.2	371.2	300.2	312.4
199.3	77.5°	166.8	146.0	170.9	214.0	241.9	293.1	362.6	329.6	260.1	259.1
137.9	80°	115.6	103.4	138.9	172.4	187.1	246.4	316.4	282.9	212.0	197.8
85.2	82.5°	69.5	67.4	104.0	128.8	132.3	190.2	262.2	237.3	173.4	151.1
50.7	85°	38.0	40.1	66.4	75.6	77.1	132.9	205.4	183.6	133.4	112.1
18.3	87.5°	10.6	13.7	24.3	29.9	37.0	69.0	122.2	109.0	66.9	46.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1249.9
1341.7
1400.0
1416.8
1407.6
1386.4
1356.9
1307.2
1253.0
1218.5
1190.1
1158.7
1123.7
1072.5
1006.0
921.9
826.0
730.2
655.7
606.0
558.8
522.8
475.1
434.1
395.5
365.1
341.3
323.0
309.3
291.6
322.5
238.8
189.1
152.1
113.1
46.7
0.0

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