

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: P939859

Luminaire Tested: **GALN-SB2C-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939859
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-SB2C-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9010 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

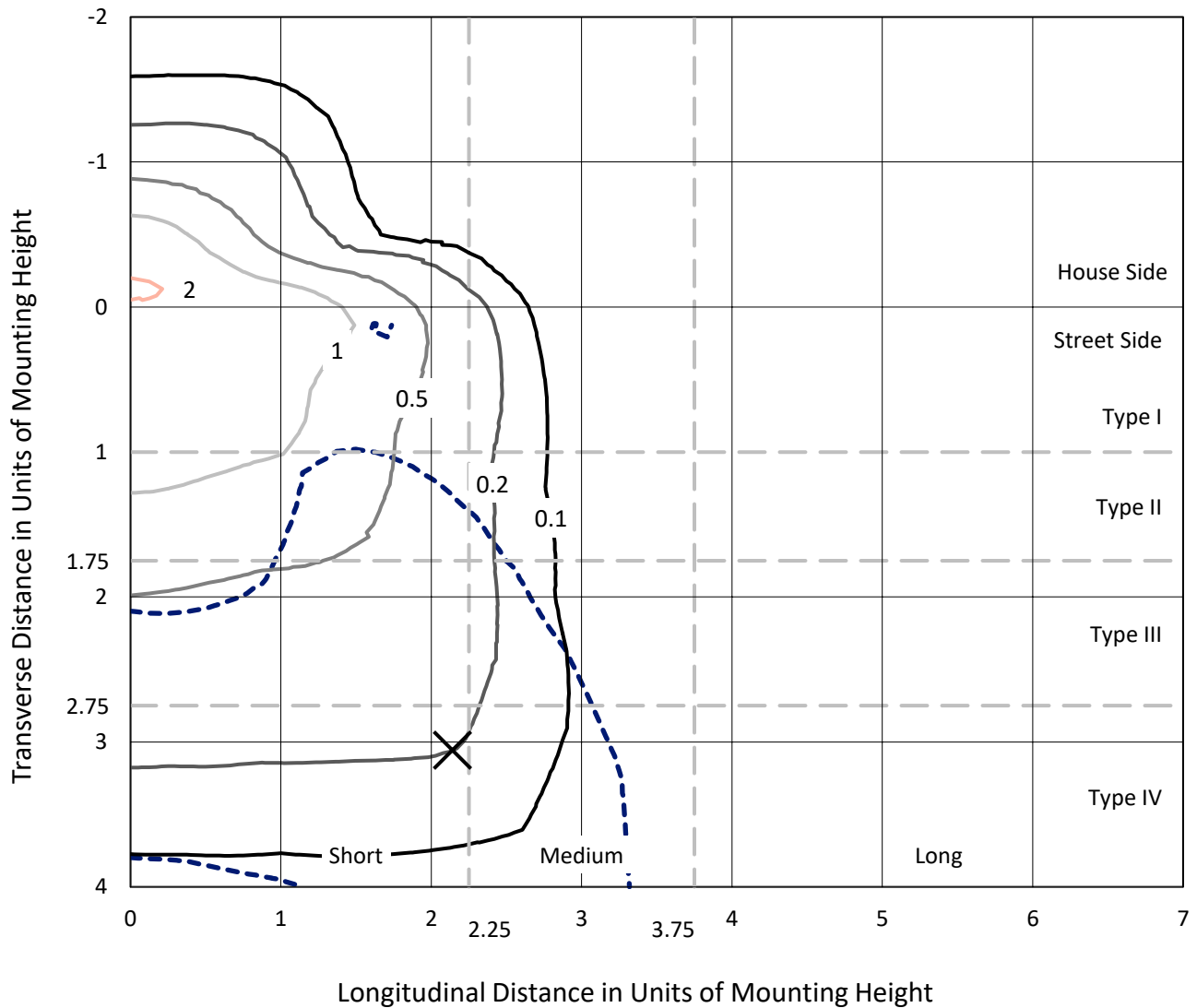
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

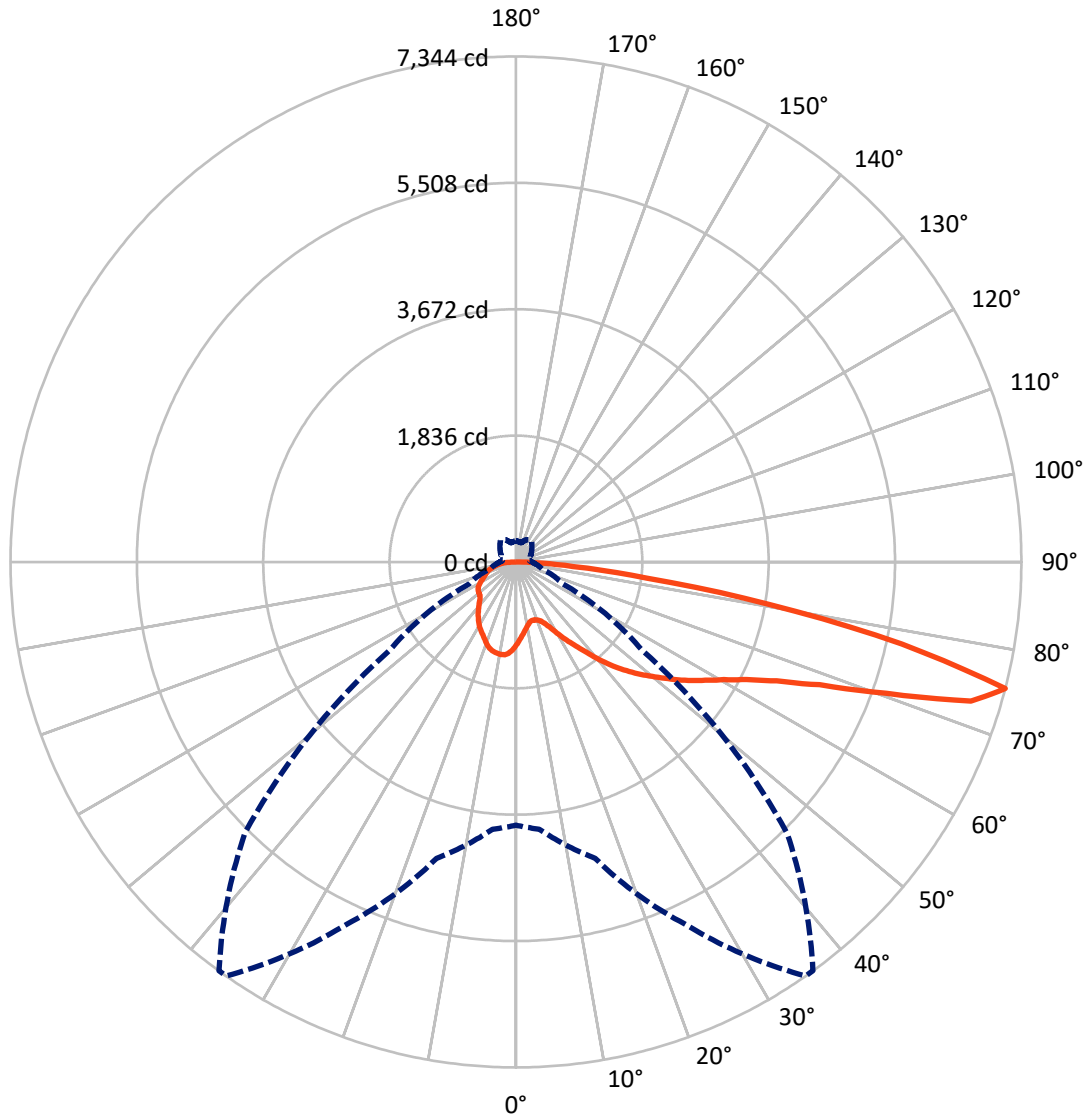
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2144.1	0.0	2144.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6865.9	0.0	6865.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	9010.0	0.0	9010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	1.3
10°-20°	327.9	3.6
20°-30°	550.6	6.1
30°-40°	855.7	9.5
40°-50°	1270.1	14.1
50°-60°	1753.5	19.5
60°-70°	2127.4	23.6
70°-80°	1758.1	19.5
80°-90°	252.9	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°	9010.0	100.0
0°-180°	9010.0	100.0

Coefficient of Utilization



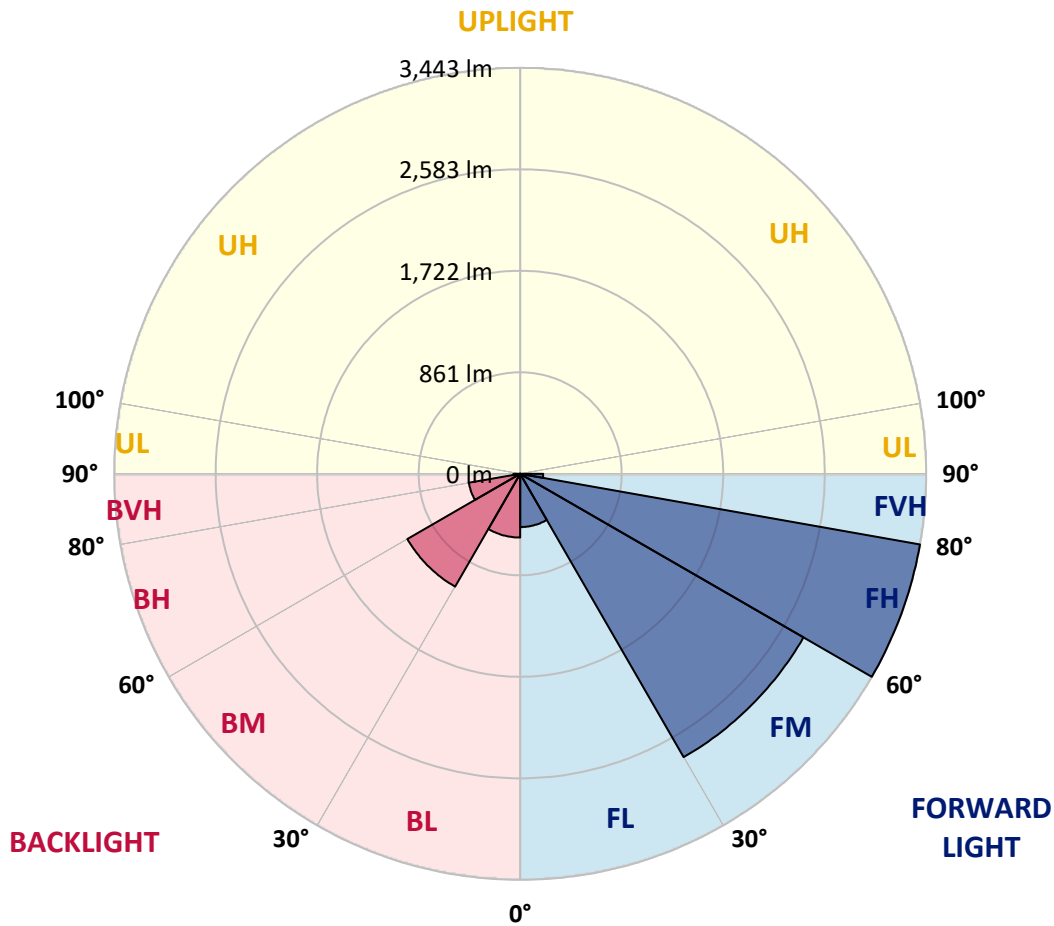
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.8	5.0			
FM (30°-60°)	2774.6	30.8			
FH (60°-80°)	3443.5	38.2			G2/5000
FVH (80°-90°)	195.9	2.2			G2/225
BL (0°-30°)	540.4	6.0	B2/1000		
BM (30°-60°)	1104.8	12.3	B2/2500		
BH (60°-80°)	442.1	4.9	B1/500		G1/500
BVH (80°-90°)	56.9	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°	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6
2.5°	1107.1	1113.9	1116.9	1115.4	1122.7	1121.7	1132.0	1144.6	1162.2	1179.2
5°	1021.9	1029.2	1035.5	1041.4	1055.5	1059.9	1076.0	1100.3	1132.5	1165.1
7.5°	942.5	948.8	958.6	969.3	993.1	997.5	1024.3	1062.3	1107.1	1154.9
10°	877.7	884.0	894.3	906.4	936.2	941.5	975.6	1026.3	1084.7	1145.1
12.5°	849.9	851.9	857.7	869.9	895.7	899.1	936.6	994.6	1062.8	1137.8
15°	848.5	852.4	852.9	859.2	880.6	882.1	916.7	974.2	1049.2	1136.3
17.5°	863.1	866.0	861.6	865.5	883.6	886.0	913.3	964.4	1044.8	1142.7
20°	902.1	904.5	891.3	886.0	899.1	901.1	927.9	970.7	1049.2	1155.8
22.5°	984.9	986.3	954.2	932.3	933.2	934.2	957.6	996.6	1066.2	1179.7
25°	1113.9	1113.0	1061.8	1019.5	995.1	989.7	1005.3	1038.4	1094.9	1211.4
27.5°	1264.9	1257.6	1206.5	1143.2	1090.1	1082.3	1078.9	1093.0	1135.9	1253.2
30°	1435.4	1428.6	1373.6	1290.8	1217.2	1204.5	1172.4	1165.1	1196.7	1310.2
32.5°	1622.5	1618.1	1552.3	1452.0	1353.6	1339.0	1284.9	1265.4	1290.3	1396.4
35°	1779.3	1775.4	1720.8	1617.6	1497.3	1479.3	1424.2	1402.3	1415.0	1507.0
37.5°	1921.0	1919.1	1872.3	1791.0	1666.8	1644.9	1583.0	1575.7	1573.3	1652.7
40°	2052.5	2047.7	1999.0	1956.1	1864.0	1844.1	1789.5	1783.2	1764.7	1831.9
42.5°	2198.2	2185.5	2114.9	2094.9	2070.1	2053.5	2020.9	2021.9	1980.9	2034.0
45°	2317.0	2309.7	2237.1	2225.5	2252.2	2245.4	2273.7	2281.0	2201.6	2245.9
47.5°	2444.6	2437.8	2376.4	2368.2	2440.7	2442.7	2542.5	2545.0	2416.9	2466.1
50°	2602.0	2592.2	2531.3	2541.6	2622.9	2630.2	2812.9	2796.3	2615.1	2689.6
52.5°	2705.7	2711.6	2698.4	2715.0	2826.0	2832.8	3078.8	3036.4	2811.4	2910.3
55°	2782.2	2793.9	2834.8	2872.8	3040.3	3047.2	3329.7	3264.9	2974.1	3114.9
57.5°	2880.6	2864.0	2940.5	3014.5	3243.9	3262.0	3573.7	3485.0	3118.3	3291.2
60°	3021.8	3010.1	3069.6	3179.1	3471.9	3500.6	3831.8	3683.3	3224.0	3431.0
62.5°	3308.2	3279.0	3288.3	3385.2	3759.3	3797.2	4123.1	3856.2	3276.6	3485.5
65°	3736.4	3686.2	3639.4	3706.7	4164.0	4201.5	4451.9	3992.1	3257.1	3379.8
67.5°	4275.6	4225.9	4168.4	4231.7	4760.2	4789.9	4857.6	4068.5	3103.7	2972.6
70°	4720.3	4701.7	4770.4	5031.0	5712.4	5713.4	5377.8	4005.2	2683.3	2107.6
72.5°	4661.3	4650.1	5012.0	5817.6	6912.6	6886.8	5870.2	3525.9	1807.5	950.8
75°	3824.0	3896.6	4457.2	5803.5	7343.7	7340.2	5568.7	2241.5	747.7	394.0
77.5°	2050.6	2165.5	2893.7	4284.8	5732.9	5819.1	3915.1	784.2	321.0	252.3
80°	668.8	769.1	1153.4	2181.6	3725.2	3709.1	1678.0	307.8	219.7	178.8
82.5°	284.0	295.7	515.3	1030.2	1911.8	1882.1	534.3	176.8	154.4	122.3
85°	111.1	124.2	227.5	476.4	828.0	810.0	192.9	87.7	98.9	79.9
87.5°	36.5	44.3	81.3	163.2	257.7	248.4	47.2	30.2	42.9	36.5
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°
1200.6	0°	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6	1200.6
1204.1	2.5°	1210.9	1218.7	1227.9	1241.6	1253.2	1263.0	1273.2	1279.5	1282.0	1289.3
1206.0	5°	1219.6	1236.7	1259.6	1282.0	1303.9	1317.1	1328.7	1334.6	1339.9	1343.8
1211.4	7.5°	1234.3	1256.2	1292.2	1321.4	1339.9	1350.7	1358.5	1356.5	1358.5	1359.4
1217.2	10°	1246.9	1277.6	1320.5	1348.2	1362.4	1362.8	1360.9	1354.1	1350.7	1351.2
1226.0	12.5°	1262.0	1296.1	1342.4	1365.8	1369.7	1358.9	1350.7	1339.0	1334.6	1332.6
1239.1	15°	1282.5	1321.4	1366.2	1375.0	1365.3	1351.6	1337.5	1318.5	1308.8	1301.0
1261.5	17.5°	1307.3	1350.2	1384.8	1378.4	1357.5	1335.1	1312.2	1283.4	1263.5	1255.2
1292.2	20°	1341.9	1380.4	1398.9	1371.1	1339.5	1305.4	1266.4	1231.3	1212.8	1204.5
1331.2	22.5°	1383.8	1420.8	1412.5	1358.5	1313.6	1259.1	1210.4	1184.6	1175.3	1169.5
1381.3	25°	1434.0	1465.6	1422.3	1339.9	1271.3	1197.7	1160.2	1151.9	1147.6	1143.2
1442.7	27.5°	1499.2	1516.3	1429.6	1312.7	1205.0	1132.5	1118.8	1120.3	1118.8	1111.5
1528.0	30°	1585.4	1582.0	1436.4	1268.3	1129.0	1073.5	1074.5	1080.8	1081.8	1076.9
1646.8	32.5°	1698.9	1664.3	1439.8	1210.9	1056.5	1021.9	1022.9	1029.7	1034.6	1026.3
1802.2	35°	1836.3	1760.3	1434.4	1138.8	1000.5	972.7	965.4	967.3	968.8	961.0
1990.7	37.5°	1996.5	1867.9	1410.6	1058.9	954.2	924.5	908.9	895.7	887.9	880.6
2204.0	40°	2172.4	1985.3	1366.7	981.0	902.6	873.3	849.9	825.1	798.8	789.1
2430.0	42.5°	2356.5	2106.1	1313.6	906.4	843.1	819.3	794.4	758.4	718.9	699.0
2664.8	45°	2547.4	2229.8	1261.5	832.9	782.2	772.0	743.3	699.9	657.1	631.7
2900.1	47.5°	2734.4	2346.7	1185.1	758.9	725.3	736.5	714.1	674.1	626.4	586.4
3133.4	50°	2913.2	2456.3	1059.9	683.9	679.0	725.7	704.3	646.8	592.3	541.1
3362.3	52.5°	3090.5	2545.0	899.6	615.7	654.1	722.8	691.6	628.3	561.6	508.0
3577.6	55°	3241.0	2590.8	745.2	557.2	618.1	698.0	676.5	606.4	518.2	461.3
3725.2	57.5°	3326.7	2553.7	616.6	499.7	568.4	657.1	650.7	559.7	466.6	422.8
3753.9	60°	3289.7	2403.7	511.4	449.6	521.2	612.7	605.9	513.4	427.2	385.8
3600.0	62.5°	3085.6	2117.8	428.1	405.7	478.3	567.4	561.1	477.8	397.0	357.0
3191.3	65°	2674.5	1722.8	363.4	369.2	435.0	512.9	522.1	448.1	373.1	334.1
2469.0	67.5°	2039.9	1247.9	312.7	337.5	392.6	459.3	486.1	426.7	353.1	316.1
1428.6	70°	1162.7	708.7	269.8	306.9	355.1	409.6	458.3	409.6	331.7	301.0
535.3	72.5°	440.8	325.4	233.3	276.2	319.0	367.7	427.7	382.8	306.9	284.0
276.7	75°	235.3	198.2	196.3	240.1	277.6	326.8	389.2	356.5	288.3	300.0
191.4	77.5°	160.2	140.3	164.1	205.5	232.3	281.5	348.3	316.6	249.9	248.9
132.5	80°	111.1	99.4	133.5	165.6	179.7	236.7	303.9	271.8	203.6	190.0
81.8	82.5°	66.7	64.8	99.9	123.7	127.1	182.7	251.8	228.0	166.6	145.1
48.7	85°	36.5	38.5	63.8	72.6	74.0	127.6	197.3	176.3	128.1	107.6
17.5	87.5°	10.2	13.2	23.4	28.7	35.6	66.2	117.4	104.7	64.3	44.8
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>
1200.6
1288.8
1344.8
1360.9
1352.1
1331.7
1303.4
1255.7
1203.6
1170.4
1143.2
1113.0
1079.4
1030.2
966.4
885.5
793.4
701.4
629.8
582.1
536.8
502.2
456.4
416.9
379.9
350.7
327.8
310.3
297.1
280.1
309.8
229.4
181.7
146.1
108.6
44.8
0.0

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