

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: P946465

Luminaire Tested: **GALN-SB2A-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-835-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8542 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

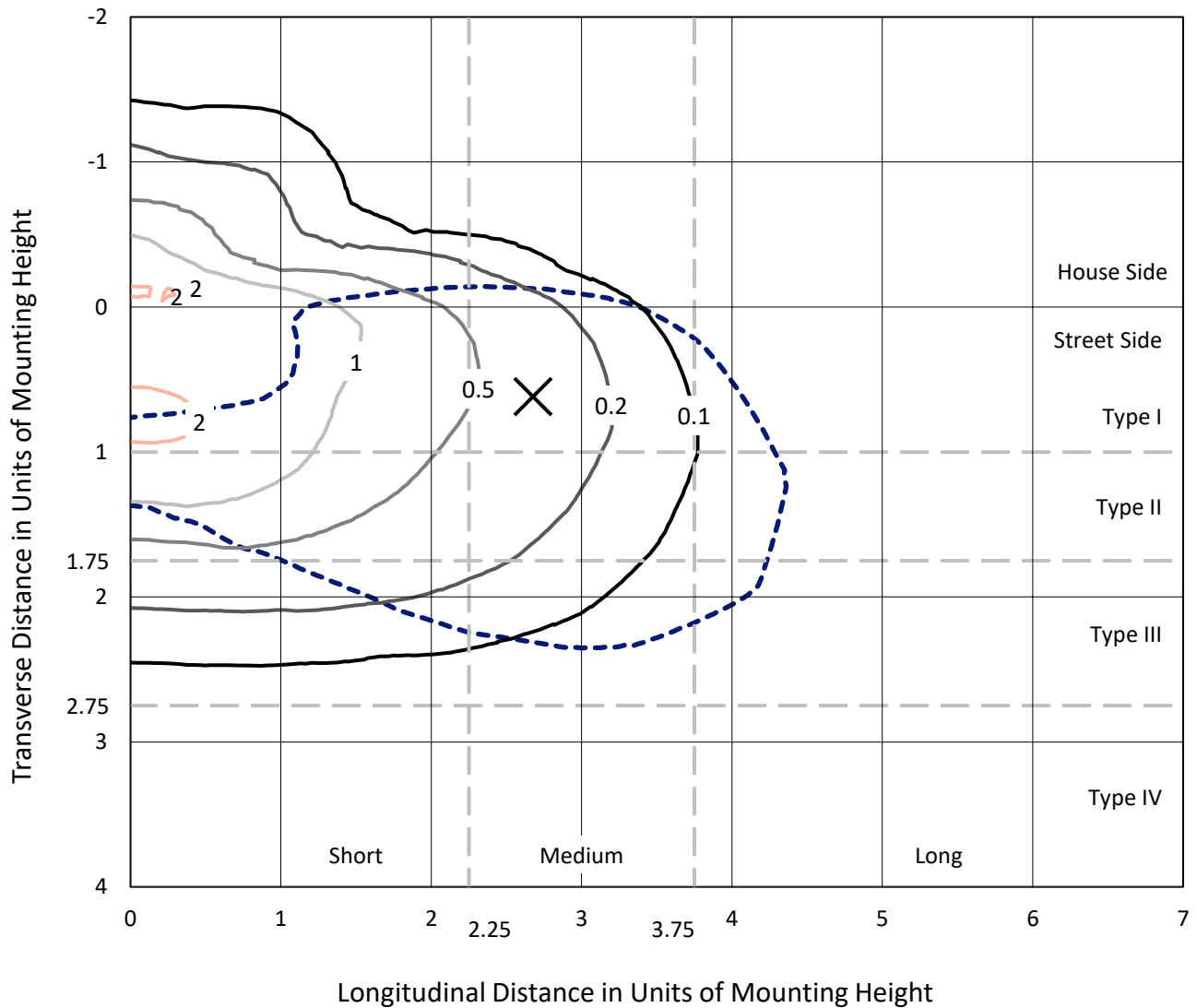
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

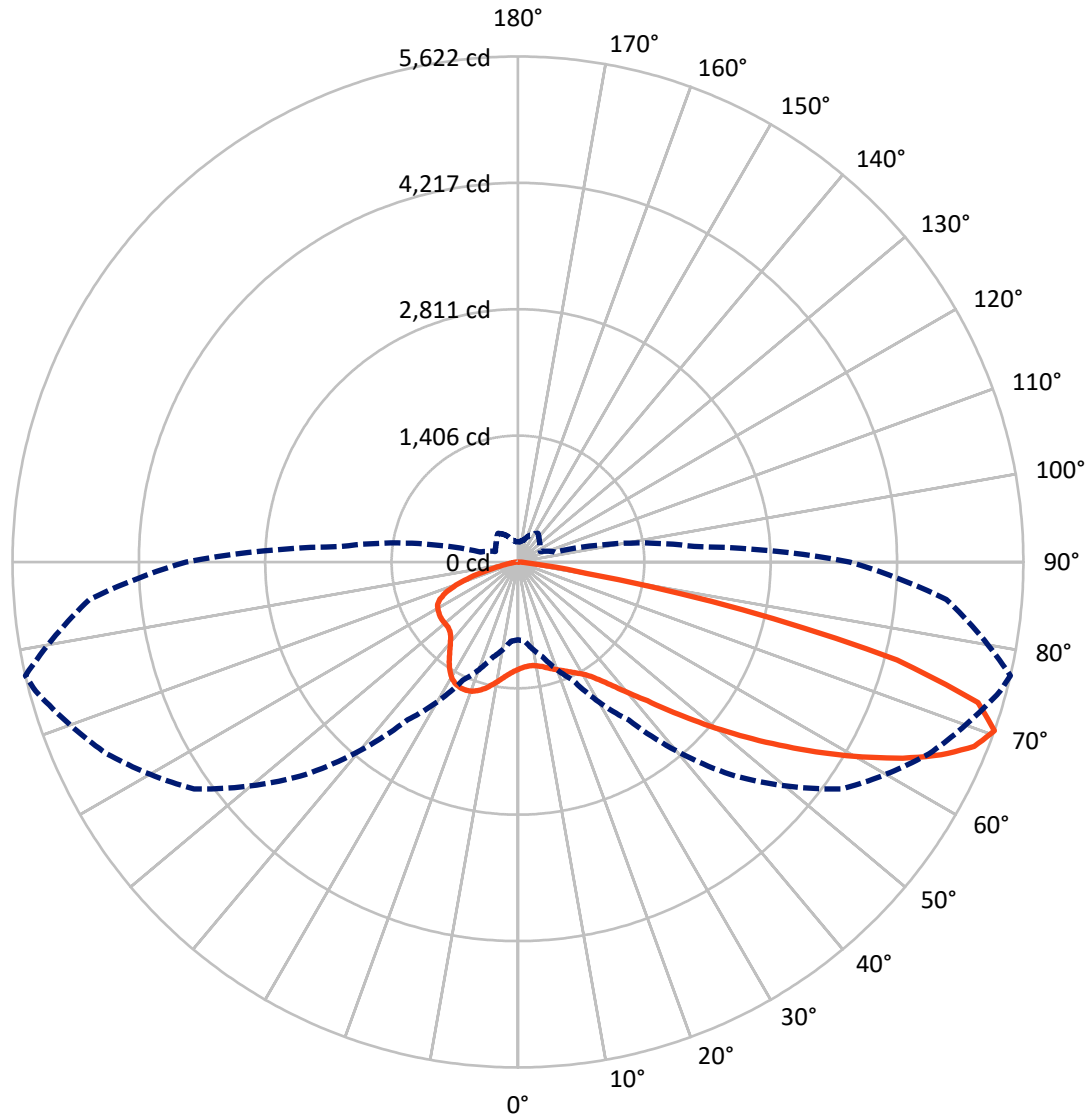
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1870.6	0.0	1870.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6671.4	0.0	6671.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	8542.0	0.0	8542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	1.3
10°-20°	328.0	3.8
20°-30°	561.0	6.6
30°-40°	902.1	10.6
40°-50°	1408.4	16.5
50°-60°	1881.3	22.0
60°-70°	2005.1	23.5
70°-80°	1234.3	14.5
80°-90°	108.2	1.3
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°	8542.0	100.0
0°-180°	8542.0	100.0

Coefficient of Utilization



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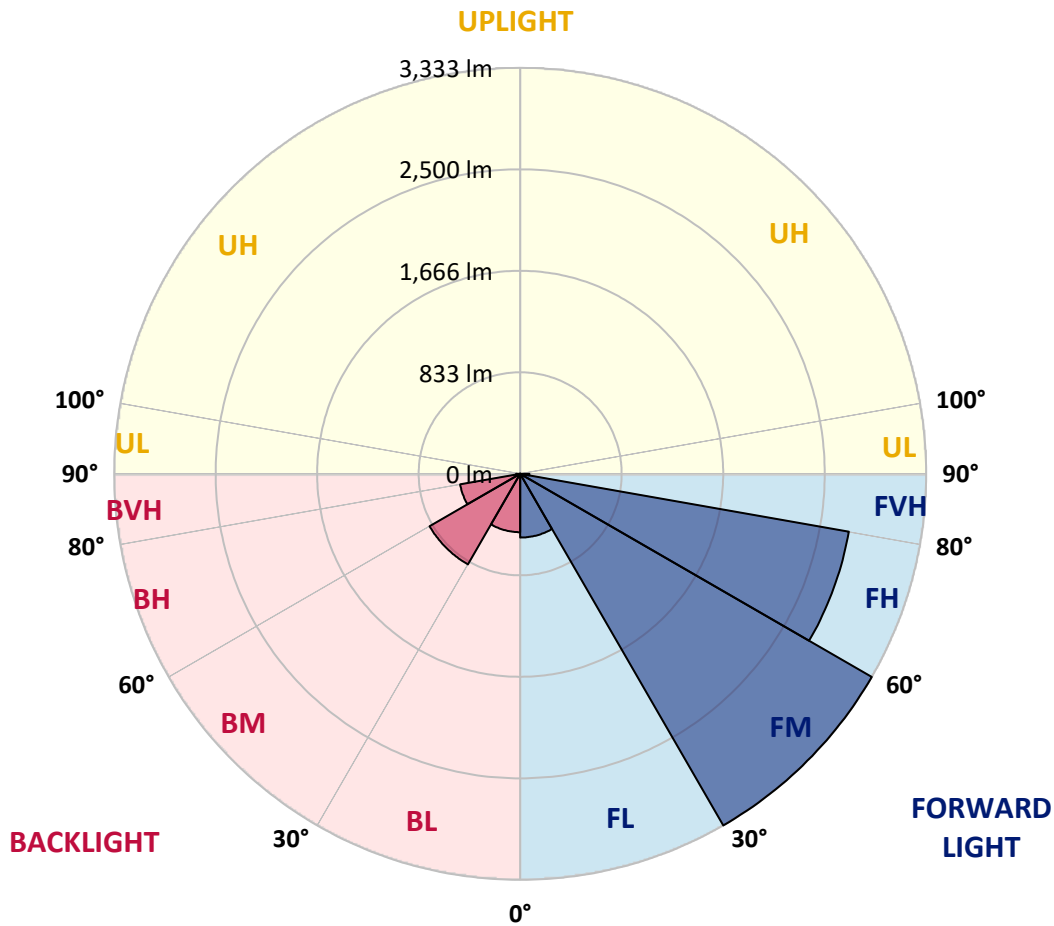
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.3	6.1			
FM (30°-60°)	3332.9	39.0			
FH (60°-80°)	2739.6	32.1			G2/5000
FVH (80°-90°)	75.6	0.9			G1/100
BL (0°-30°)	479.3	5.6	B1/500		
BM (30°-60°)	858.8	10.1	B1/1000		
BH (60°-80°)	499.9	5.9	B1/500		G1/500
BVH (80°-90°)	32.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7
2.5°	1098.5	1098.1	1103.8	1105.5	1116.0	1123.4	1137.4	1152.3	1171.6	1173.8
5°	1035.1	1035.1	1041.6	1048.6	1062.2	1077.1	1098.5	1124.3	1157.6	1162.8
7.5°	981.3	984.8	990.4	1004.0	1019.8	1041.2	1074.0	1110.8	1154.5	1162.8
10°	938.0	941.9	948.9	959.8	983.4	1013.2	1056.1	1103.3	1161.9	1175.1
12.5°	924.4	928.3	932.3	940.6	962.4	997.4	1048.6	1106.8	1179.9	1193.0
15°	955.9	960.7	957.6	955.4	966.8	998.8	1052.1	1119.5	1202.2	1221.0
17.5°	1028.5	1030.3	1023.3	1002.7	1000.9	1018.0	1068.8	1137.0	1230.2	1250.7
20°	1145.8	1142.7	1128.3	1087.6	1064.4	1060.9	1097.2	1163.3	1259.1	1280.9
22.5°	1305.0	1301.5	1272.6	1208.3	1156.7	1122.6	1138.3	1197.4	1291.4	1315.9
25°	1503.6	1498.8	1456.4	1368.9	1288.8	1204.4	1194.3	1242.4	1331.2	1354.0
27.5°	1735.5	1731.5	1685.6	1570.1	1454.6	1316.4	1263.9	1295.4	1372.8	1398.6
30°	1984.8	1996.2	1914.8	1790.6	1644.5	1462.5	1357.5	1360.6	1426.6	1449.8
32.5°	2277.9	2297.6	2199.6	2042.1	1842.7	1621.3	1475.6	1451.5	1504.9	1524.2
35°	2568.4	2590.7	2509.4	2335.3	2105.6	1808.5	1599.0	1556.1	1609.0	1630.0
37.5°	2819.5	2849.3	2807.3	2655.9	2386.9	2034.3	1760.0	1679.0	1737.2	1763.5
40°	3017.7	3063.2	3060.2	2965.7	2718.5	2308.1	1964.3	1830.8	1896.5	1924.9
42.5°	3178.7	3218.1	3252.2	3247.4	3064.5	2619.2	2204.4	2028.1	2078.0	2110.8
45°	3289.8	3331.8	3405.3	3484.5	3397.4	2952.1	2479.6	2262.2	2307.7	2357.1
47.5°	3389.1	3436.8	3532.2	3657.7	3680.1	3286.3	2781.0	2534.7	2576.3	2627.5
50°	3397.9	3439.0	3586.9	3764.9	3880.9	3607.4	3104.8	2840.5	2879.5	2934.2
52.5°	3186.6	3251.3	3509.4	3761.9	3973.2	3876.0	3426.3	3158.6	3202.3	3268.0
55°	2473.5	2568.4	3282.4	3644.6	3940.4	4049.7	3732.1	3496.8	3552.7	3621.4
57.5°	2130.5	2172.1	2605.6	3431.1	3790.7	4094.8	3990.2	3838.4	3928.5	4003.8
60°	1914.8	1949.4	2205.8	3099.1	3593.9	4023.5	4189.7	4156.9	4312.6	4402.3
62.5°	1683.8	1716.7	1949.8	2587.7	3341.9	3904.9	4315.7	4450.9	4706.4	4804.4
65°	1454.6	1482.6	1706.2	2174.3	3021.7	3786.4	4380.9	4705.1	5070.8	5172.3
67.5°	1199.1	1222.3	1433.6	1834.3	2632.3	3624.1	4413.3	4905.0	5388.0	5475.0
70°	865.3	883.3	1101.6	1450.7	2143.6	3344.9	4400.1	5046.7	5552.5	5622.0
72.5°	409.0	425.2	681.6	941.9	1514.1	2801.6	4134.6	4934.3	5385.3	5350.8
75°	218.3	232.3	391.5	516.7	799.7	1920.5	3383.4	4250.5	4522.2	4354.2
77.5°	147.9	158.8	242.4	310.2	365.3	911.7	2174.7	2942.9	2831.4	2554.0
80°	117.2	128.6	198.6	210.0	176.7	329.4	898.6	1362.3	978.6	782.6
82.5°	90.1	102.8	167.1	152.2	96.2	135.2	261.6	430.9	250.7	190.7
85°	55.1	68.7	131.2	97.1	54.2	61.7	88.8	119.9	76.6	63.9
87.5°	28.0	39.4	66.5	35.4	24.5	14.4	23.6	23.6	20.1	17.5
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°
1191.7	0°	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7	1191.7
1185.6	2.5°	1196.1	1204.8	1219.7	1233.7	1244.6	1255.1	1265.6	1271.3	1273.1	1280.1
1192.1	5°	1210.1	1226.2	1255.1	1282.2	1299.3	1309.8	1317.2	1321.6	1322.5	1324.7
1210.1	7.5°	1235.9	1261.7	1301.9	1329.1	1341.7	1340.9	1337.8	1326.9	1322.5	1318.6
1236.3	10°	1272.2	1306.3	1355.7	1374.6	1366.7	1345.7	1318.6	1286.6	1271.7	1257.3
1272.2	12.5°	1317.2	1360.6	1409.1	1408.2	1369.3	1315.5	1252.5	1203.5	1172.4	1150.1
1316.4	15°	1371.9	1421.8	1459.0	1429.2	1343.9	1247.2	1154.9	1091.1	1063.1	1038.6
1361.0	17.5°	1428.4	1481.7	1498.8	1422.7	1280.1	1146.2	1041.6	991.3	963.8	950.6
1409.1	20°	1483.5	1536.4	1522.4	1385.1	1182.9	1031.6	938.4	910.8	905.1	908.2
1455.9	22.5°	1541.7	1588.9	1527.2	1312.4	1059.1	914.3	863.1	864.0	876.7	885.9
1504.9	25°	1601.2	1633.1	1514.5	1207.4	926.1	828.1	815.5	829.5	854.4	872.3
1560.0	27.5°	1658.5	1672.5	1487.0	1077.5	812.0	766.5	768.6	797.5	835.1	860.1
1627.0	30°	1723.2	1707.5	1434.0	931.4	732.8	713.5	731.9	765.6	803.2	825.5
1711.4	32.5°	1796.3	1737.7	1350.1	796.2	676.8	671.1	701.3	723.1	739.8	746.3
1823.4	35°	1887.3	1780.1	1242.4	701.3	626.5	640.0	668.9	658.0	651.4	647.9
1973.9	37.5°	2005.4	1837.4	1116.4	639.6	585.8	617.7	629.5	595.4	569.6	556.9
2156.3	40°	2147.6	1921.4	995.3	591.9	560.0	598.5	577.9	536.8	504.0	486.0
2361.5	42.5°	2305.5	2009.3	893.3	556.0	545.5	582.7	539.8	490.8	437.9	432.2
2606.0	45°	2471.3	2099.9	823.8	528.5	538.5	569.2	518.0	438.8	401.2	424.4
2851.5	47.5°	2637.1	2183.0	781.8	507.9	535.0	553.8	498.7	409.9	383.2	416.9
3114.4	50°	2821.7	2257.4	763.0	493.0	531.1	547.7	469.9	402.5	364.4	386.7
3386.5	52.5°	3005.0	2315.1	749.0	478.2	525.4	542.9	455.9	393.7	341.7	343.0
3660.4	55°	3187.9	2352.8	733.6	458.5	512.7	532.4	454.5	384.1	324.6	318.5
3950.0	57.5°	3383.0	2374.2	714.8	436.6	490.8	505.7	453.2	376.7	319.4	309.3
4246.2	60°	3581.6	2405.7	690.3	409.9	461.5	473.8	450.2	374.0	316.3	299.2
4525.3	62.5°	3759.7	2416.6	661.0	384.5	423.9	442.3	443.6	371.9	308.0	278.7
4757.1	65°	3876.5	2369.4	609.8	355.7	383.2	409.9	430.9	364.4	293.1	263.8
4871.7	67.5°	3871.7	2234.6	529.8	318.5	343.9	374.0	412.5	351.7	275.2	245.4
4785.1	70°	3691.4	1968.6	428.3	275.2	300.5	335.5	388.9	332.9	253.7	225.3
4254.9	72.5°	3166.0	1540.8	311.0	224.4	250.2	295.7	358.3	310.2	231.9	207.4
3144.6	75°	2261.8	975.1	210.9	172.4	194.7	250.7	320.2	283.5	211.7	208.2
1574.9	77.5°	1155.4	465.9	139.6	126.0	135.6	197.7	269.0	253.3	214.8	171.9
448.0	80°	375.8	171.9	87.9	85.7	90.1	131.7	208.2	207.8	162.7	116.8
108.5	82.5°	119.9	73.9	57.3	55.1	52.9	82.7	145.2	164.5	109.8	73.9
38.9	85°	47.7	44.2	33.7	31.1	22.3	38.9	76.1	109.4	81.8	53.4
10.1	87.5°	17.5	17.5	9.2	6.6	4.8	13.1	20.6	32.8	46.8	27.6
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>
1191.7
1284.0
1328.2
1319.4
1252.9
1144.9
1035.9
954.6
906.9
888.1
877.1
866.2
830.8
749.8
651.4
560.0
487.3
437.9
436.6
432.7
403.4
352.2
322.9
310.6
300.5
278.7
263.8
246.7
227.9
206.1
196.4
153.1
103.2
73.5
54.7
27.1
0.0

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