

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: P945699

Luminaire Tested: **GALN-SB1C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6367 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

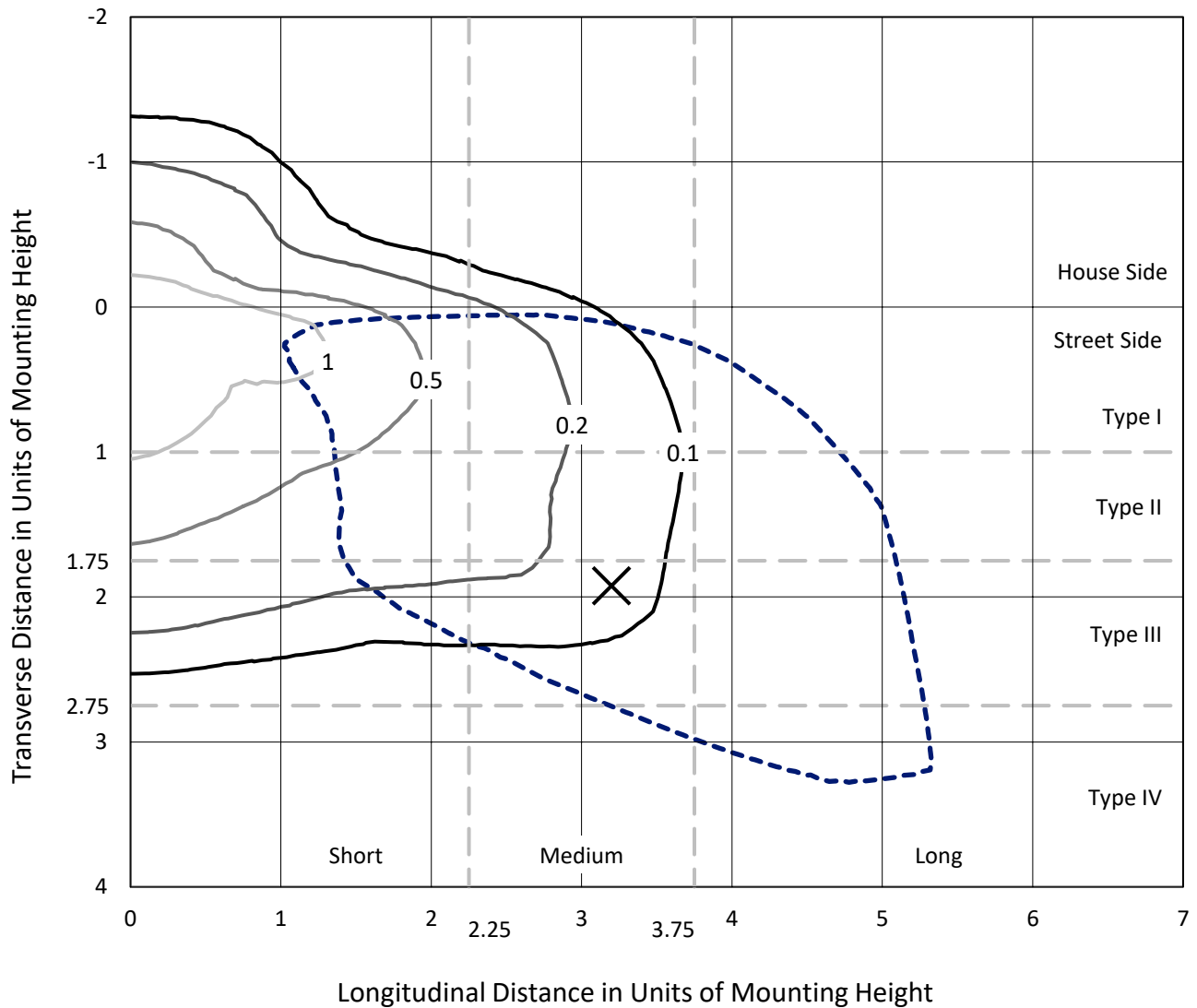
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

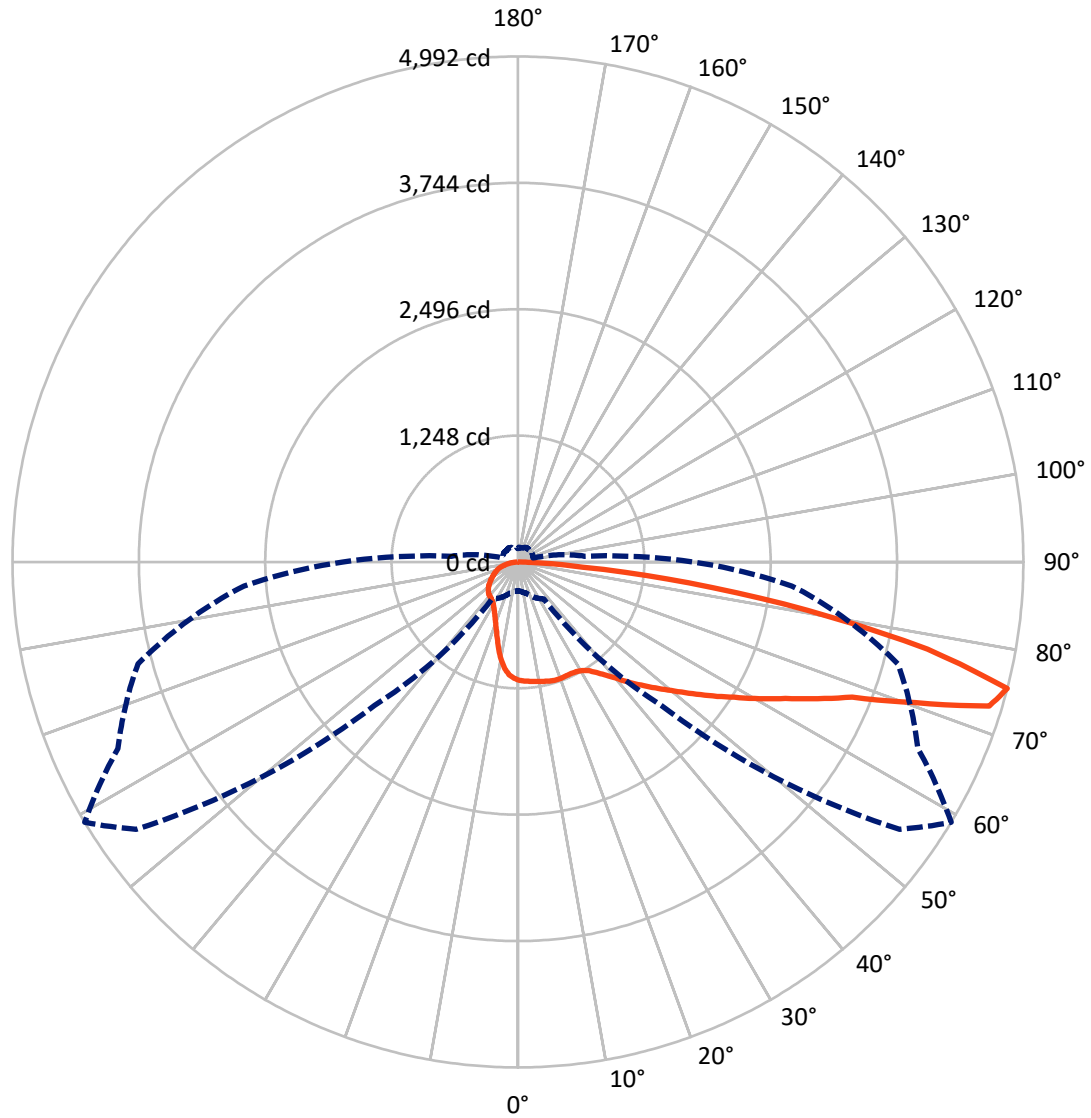
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1194.2	0.0	1194.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5172.8	0.0	5172.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	6367.0	0.0	6367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	1.6
10°-20°	267.8	4.2
20°-30°	406.8	6.4
30°-40°	604.7	9.5
40°-50°	899.4	14.1
50°-60°	1220.8	19.2
60°-70°	1490.4	23.4
70°-80°	1169.6	18.4
80°-90°	202.6	3.2
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°	6367.0	100.0
0°-180°	6367.0	100.0

Coefficient of Utilization



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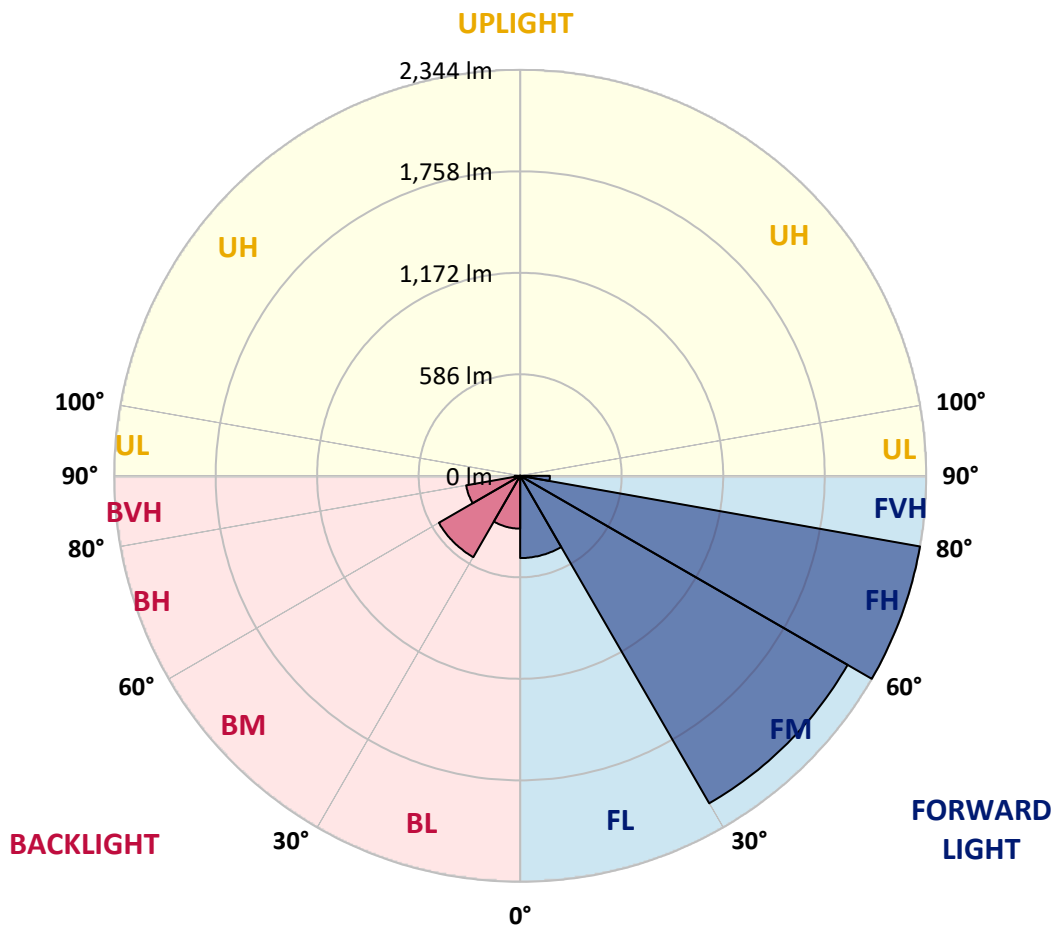
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	474.7	7.5			
FM (30°-60°)	2182.9	34.3			
FH (60°-80°)	2343.6	36.8			G2/5000
FVH (80°-90°)	171.6	2.7			G2/225
BL (0°-30°)	304.7	4.8	B1/500		
BM (30°-60°)	542.0	8.5	B1/1000		
BH (60°-80°)	316.4	5.0	B1/500		G1/500
BVH (80°-90°)	31.0	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6
2.5°	1178.6	1174.5	1178.6	1176.9	1176.2	1174.8	1175.2	1177.6	1176.2	1177.9
5°	1170.7	1168.3	1172.4	1171.4	1175.8	1176.5	1181.0	1183.7	1185.4	1185.8
7.5°	1157.7	1155.3	1161.1	1165.9	1175.5	1178.2	1187.5	1191.9	1194.3	1198.4
10°	1110.1	1109.1	1123.4	1141.6	1164.2	1178.2	1192.3	1199.8	1203.6	1214.5
12.5°	1025.8	1027.2	1046.0	1081.0	1126.2	1171.4	1197.8	1208.7	1214.5	1228.2
15°	945.3	945.0	965.5	1002.9	1066.2	1141.2	1200.5	1219.3	1229.3	1249.5
17.5°	898.7	897.4	911.8	940.2	999.1	1095.0	1193.7	1225.2	1246.4	1271.7
20°	890.2	887.4	895.0	909.0	950.8	1044.3	1175.8	1225.2	1260.1	1293.0
22.5°	921.4	916.9	913.8	912.1	930.6	1002.5	1155.6	1221.1	1280.3	1323.5
25°	984.0	977.2	961.4	946.0	940.5	983.7	1137.8	1220.0	1310.4	1364.6
27.5°	1085.4	1076.9	1045.0	1008.0	974.8	993.3	1129.9	1226.2	1343.7	1408.1
30°	1211.1	1201.9	1161.8	1104.9	1045.3	1028.9	1139.9	1244.3	1386.1	1465.9
32.5°	1323.8	1313.5	1279.3	1221.4	1140.9	1090.6	1171.4	1278.9	1452.9	1546.4
35°	1423.8	1411.8	1381.0	1327.6	1258.0	1177.2	1228.2	1340.2	1547.8	1677.3
37.5°	1521.8	1507.7	1474.2	1417.7	1369.0	1292.6	1306.7	1419.0	1673.9	1836.2
40°	1631.4	1611.2	1570.4	1514.6	1467.3	1427.9	1409.8	1515.6	1802.0	2013.6
42.5°	1737.6	1718.4	1669.7	1622.1	1562.9	1551.6	1529.3	1628.6	1942.0	2208.5
45°	1852.0	1829.0	1770.1	1709.8	1672.5	1633.8	1645.1	1741.7	2079.4	2407.2
47.5°	1959.2	1933.5	1863.9	1796.8	1776.3	1703.0	1751.3	1866.0	2222.2	2608.6
50°	2017.0	1991.7	1933.8	1873.2	1857.1	1788.3	1866.3	2002.7	2371.9	2809.3
52.5°	2065.3	2037.9	1962.2	1928.7	1923.9	1881.1	2008.1	2158.8	2521.6	2986.7
55°	2116.7	2086.2	1989.6	1959.5	1981.4	1985.2	2176.3	2335.9	2679.8	3159.7
57.5°	2176.0	2137.3	2016.0	1985.5	2037.6	2107.1	2369.5	2519.5	2835.3	3320.0
60°	2231.8	2192.8	2066.7	2027.0	2098.2	2248.6	2591.1	2741.8	3011.4	3462.8
62.5°	2242.8	2210.6	2107.1	2106.8	2180.4	2413.7	2853.5	2966.1	3165.1	3603.9
65°	2053.0	2032.8	1971.5	2103.7	2298.3	2651.4	3145.6	3253.2	3360.7	3727.2
67.5°	1562.5	1565.3	1560.8	1816.0	2203.0	2992.9	3568.6	3560.4	3602.2	3865.6
70°	714.5	730.6	835.4	1253.6	1765.0	3032.3	4268.0	4161.5	3905.3	4044.7
72.5°	386.0	398.3	441.2	607.3	1061.1	2695.9	4790.7	4866.4	4308.5	4165.3
75°	283.3	290.1	319.9	386.0	445.6	2003.7	4603.4	4991.8	4358.8	3884.1
77.5°	212.0	215.1	239.4	305.9	228.1	1056.3	3678.2	4134.1	3731.3	3191.2
80°	153.8	157.2	175.4	229.5	160.0	386.4	2525.7	2901.8	2555.5	2034.2
82.5°	106.2	107.5	115.4	156.2	111.7	150.0	1433.1	1701.6	1426.6	713.8
85°	64.0	65.8	69.2	91.1	63.4	71.2	618.6	639.8	426.4	170.6
87.5°	26.4	28.1	30.8	38.4	25.0	19.9	102.1	128.1	79.8	50.0
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°
1168.6	0°	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6
1172.1	2.5°	1170.4	1168.0	1161.5	1152.6	1144.3	1134.1	1129.6	1125.8	1122.4	1115.9
1181.3	5°	1177.6	1171.0	1153.6	1131.0	1105.3	1077.2	1049.8	1031.0	1014.9	1002.9
1191.9	7.5°	1188.5	1176.2	1144.3	1098.1	1039.2	978.9	924.4	885.7	856.6	846.0
1207.0	10°	1199.8	1185.1	1129.6	1048.1	946.4	853.5	781.3	741.5	718.2	710.7
1224.8	12.5°	1213.2	1191.6	1106.7	978.6	842.6	740.9	677.8	654.5	642.6	638.4
1246.7	15°	1232.7	1197.1	1072.1	891.6	743.6	658.6	617.9	601.8	595.6	595.3
1269.3	17.5°	1247.4	1198.1	1018.3	798.4	667.6	609.0	575.4	569.3	573.4	579.5
1291.6	20°	1263.9	1188.9	947.7	713.5	614.1	565.5	551.4	555.6	565.5	574.4
1321.1	22.5°	1275.5	1172.1	862.4	647.3	567.9	540.5	539.8	548.4	553.8	558.3
1355.7	25°	1285.8	1143.6	772.0	591.9	529.9	525.4	532.9	530.2	526.4	530.2
1390.3	27.5°	1293.3	1098.8	691.2	543.2	503.1	515.1	510.7	504.5	504.2	506.2
1431.0	30°	1290.9	1038.8	624.7	497.0	484.3	496.0	485.3	484.3	483.3	484.3
1492.3	32.5°	1290.9	970.7	573.7	465.1	472.3	467.9	466.8	464.4	460.3	460.0
1575.6	35°	1298.1	902.5	529.9	448.0	462.4	451.8	452.5	446.6	438.1	434.0
1685.8	37.5°	1312.8	847.7	486.4	439.8	444.9	444.6	441.8	431.9	416.8	403.8
1823.5	40°	1348.5	831.6	456.6	436.0	436.7	440.8	433.6	414.4	380.2	359.0
1963.3	42.5°	1404.3	858.7	450.1	426.8	431.2	435.3	421.3	376.8	352.4	339.8
2109.9	45°	1475.2	905.9	464.1	413.4	418.2	425.4	383.6	362.4	351.4	351.8
2255.1	47.5°	1564.9	955.6	490.1	401.8	399.4	403.5	358.6	345.6	330.5	334.3
2394.5	50°	1668.7	1006.0	514.8	386.0	378.5	365.1	342.5	330.2	311.0	302.1
2529.1	52.5°	1781.1	1054.6	524.7	366.8	355.9	340.5	331.6	316.5	293.2	278.5
2656.2	55°	1887.6	1098.8	513.8	343.9	333.3	321.3	319.9	310.7	285.7	265.1
2769.2	57.5°	1988.3	1135.8	486.4	320.6	310.3	303.1	312.4	307.9	276.4	250.0
2876.1	60°	2073.6	1161.1	446.6	297.0	289.8	286.0	300.0	298.7	263.4	233.9
2972.0	62.5°	2141.4	1171.0	402.8	274.4	272.6	265.8	282.9	282.9	247.0	218.2
3056.2	65°	2194.5	1161.5	358.3	252.1	255.5	245.2	262.0	260.0	229.5	204.1
3153.2	67.5°	2241.4	1129.9	308.9	230.2	238.0	225.0	240.1	235.3	210.3	190.1
3237.1	70°	2262.3	1056.6	252.8	208.2	217.8	205.2	218.2	209.3	188.7	175.0
3144.9	72.5°	2094.5	878.2	199.0	185.3	193.5	183.2	194.5	184.3	165.4	159.3
2715.8	75°	1732.8	659.0	153.1	160.3	166.5	158.6	166.1	158.6	141.5	145.9
2006.1	77.5°	1258.4	444.9	117.1	133.9	136.7	132.6	139.1	130.5	115.1	114.1
999.8	80°	625.8	260.7	91.8	105.8	104.8	102.1	109.6	105.5	92.5	98.0
269.9	82.5°	181.2	111.7	66.8	74.3	72.3	73.0	78.4	80.5	120.6	119.5
83.9	85°	56.9	43.8	40.1	41.4	39.4	40.4	46.2	91.8	84.9	49.7
26.0	87.5°	14.7	15.1	9.9	10.6	11.0	13.0	14.7	55.8	26.7	17.5
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>
1168.6
1112.8
992.9
827.5
699.1
639.5
596.7
581.9
577.5
560.7
532.6
509.7
488.1
464.4
438.1
408.3
361.7
339.8
353.5
343.9
304.5
278.1
265.1
248.7
232.9
217.2
202.8
188.7
172.3
154.1
133.2
108.9
96.9
122.3
53.8
18.5
0.0

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