

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: P946161

Luminaire Tested: **GALN-SB1D-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946161
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-SB1D-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6056 lumens
Efficiency: N/A
Efficacy: 76.1 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

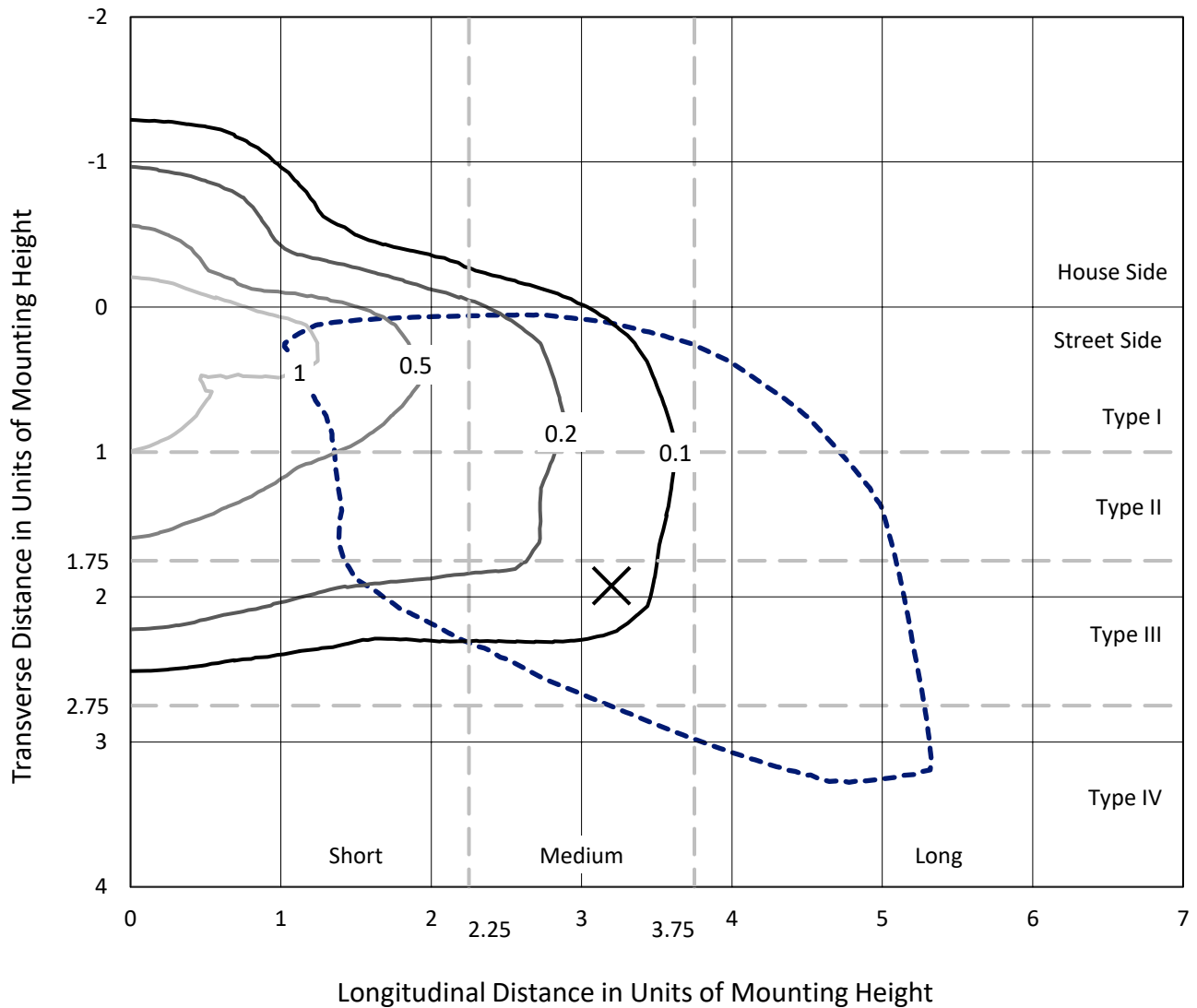
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

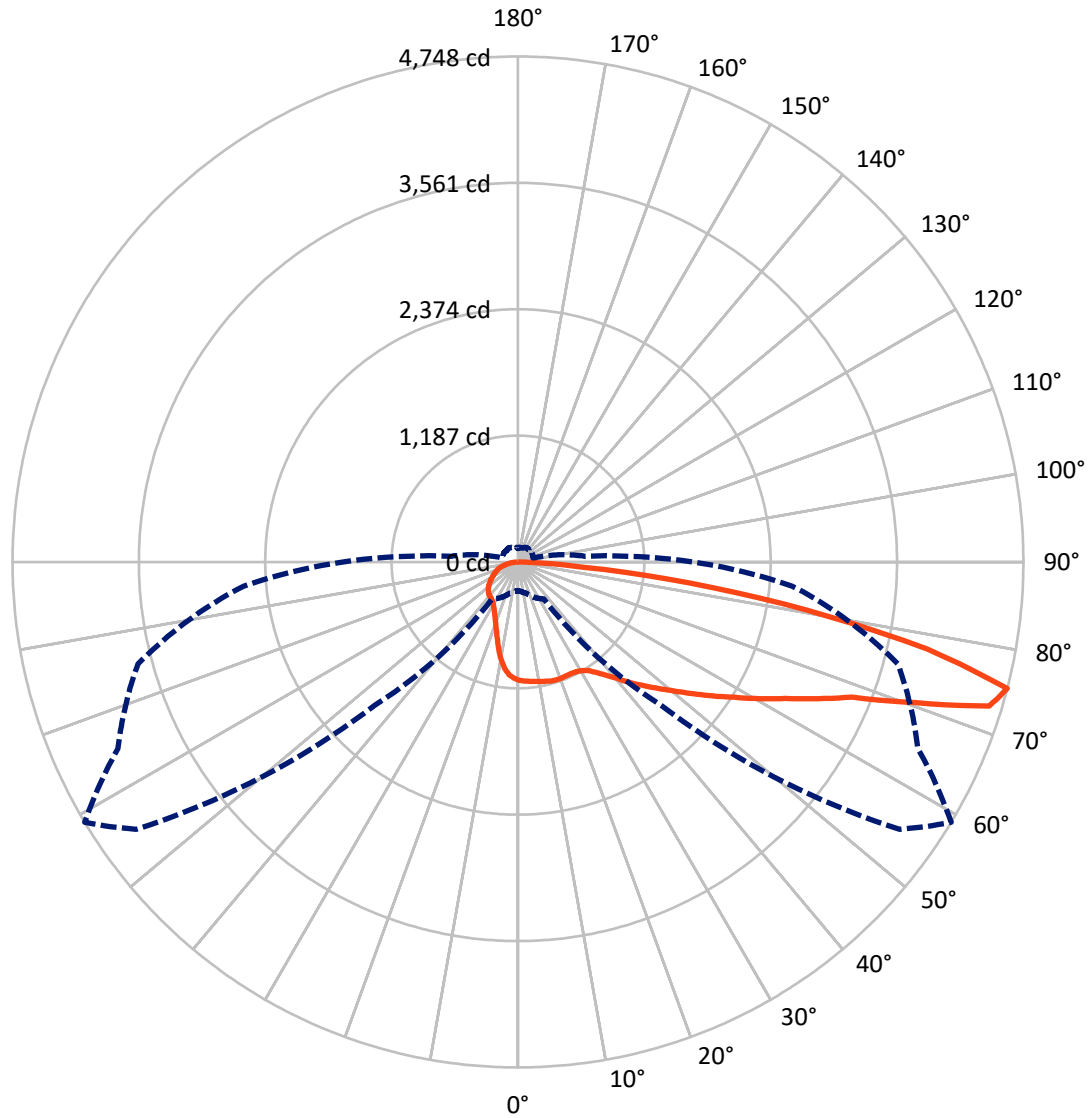
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	1135.8	0.0	1135.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4920.2	0.0	4920.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	6056.0	0.0	6056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	1.6
10°-20°	254.8	4.2
20°-30°	387.0	6.4
30°-40°	575.2	9.5
40°-50°	855.4	14.1
50°-60°	1161.2	19.2
60°-70°	1417.6	23.4
70°-80°	1112.5	18.4
80°-90°	192.7	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°	6056.0	100.0
0°-180°	6056.0	100.0

Coefficient of Utilization



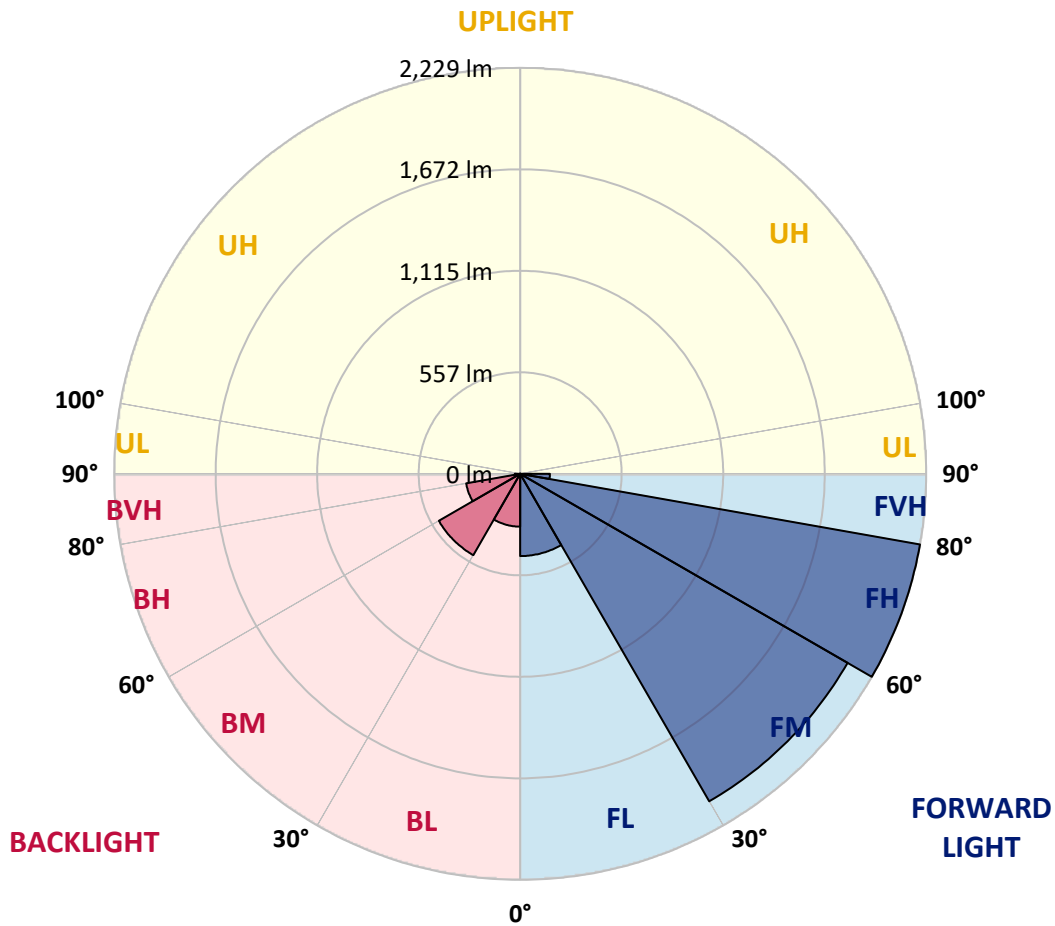
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.5	7.5			
FM (30°-60°)	2076.2	34.3			
FH (60°-80°)	2229.2	36.8			G2/5000
FVH (80°-90°)	163.2	2.7			G2/225
BL (0°-30°)	289.9	4.8	B1/500		
BM (30°-60°)	515.6	8.5	B1/1000		
BH (60°-80°)	300.9	5.0	B1/500		G1/500
BVH (80°-90°)	29.5	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°	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6
2.5°	1121.0	1117.1	1121.0	1119.4	1118.7	1117.4	1117.8	1120.0	1118.7	1120.4
5°	1113.5	1111.2	1115.1	1114.2	1118.4	1119.1	1123.3	1125.9	1127.5	1127.9
7.5°	1101.1	1098.9	1104.4	1109.0	1118.1	1120.7	1129.5	1133.7	1136.0	1139.9
10°	1055.9	1054.9	1068.6	1085.8	1107.3	1120.7	1134.0	1141.2	1144.8	1155.2
12.5°	975.7	977.0	994.9	1028.2	1071.2	1114.2	1139.3	1149.7	1155.2	1168.3
15°	899.2	898.8	918.4	953.9	1014.2	1085.5	1141.9	1159.8	1169.2	1188.4
17.5°	854.8	853.5	867.2	894.3	950.3	1041.5	1135.3	1165.3	1185.5	1209.6
20°	846.7	844.1	851.3	864.6	904.4	993.3	1118.4	1165.3	1198.5	1229.8
22.5°	876.4	872.1	869.2	867.6	885.1	953.6	1099.2	1161.4	1217.8	1258.8
25°	936.0	929.5	914.5	899.8	894.6	935.6	1082.2	1160.4	1246.4	1297.9
27.5°	1032.4	1024.3	994.0	958.8	927.2	944.8	1074.8	1166.3	1278.0	1339.3
30°	1152.0	1143.2	1105.0	1051.0	994.3	978.6	1084.2	1183.6	1318.4	1394.3
32.5°	1259.1	1249.4	1216.8	1161.7	1085.2	1037.3	1114.2	1216.5	1382.0	1470.9
35°	1354.3	1342.9	1313.5	1262.7	1196.6	1119.7	1168.3	1274.8	1472.2	1595.4
37.5°	1447.4	1434.1	1402.2	1348.4	1302.1	1229.5	1242.9	1349.7	1592.1	1746.5
40°	1551.7	1532.5	1493.7	1440.6	1395.6	1358.2	1340.9	1441.6	1713.9	1915.3
42.5°	1652.7	1634.4	1588.2	1542.9	1486.5	1475.8	1454.6	1549.1	1847.2	2100.6
45°	1761.5	1739.7	1683.6	1626.3	1590.8	1554.0	1564.7	1656.6	1977.8	2289.6
47.5°	1863.5	1839.0	1772.9	1709.0	1689.5	1619.8	1665.7	1774.9	2113.7	2481.1
50°	1918.5	1894.4	1839.4	1781.7	1766.4	1700.9	1775.2	1904.8	2256.0	2672.1
52.5°	1964.5	1938.4	1866.4	1834.5	1829.9	1789.2	1910.1	2053.4	2398.4	2840.8
55°	2013.3	1984.3	1892.5	1863.8	1884.6	1888.2	2070.0	2221.8	2548.9	3005.3
57.5°	2069.7	2032.9	1917.5	1888.6	1938.1	2004.2	2253.8	2396.4	2696.8	3157.8
60°	2122.8	2085.7	1965.8	1928.0	1995.7	2138.8	2464.5	2607.9	2864.3	3293.6
62.5°	2133.2	2102.6	2004.2	2003.9	2073.9	2295.8	2714.1	2821.3	3010.5	3427.9
65°	1952.7	1933.5	1875.2	2000.9	2186.0	2521.9	2992.0	3094.3	3196.6	3545.2
67.5°	1486.2	1488.8	1484.6	1727.3	2095.4	2846.7	3394.3	3386.5	3426.2	3676.8
70°	679.6	694.9	794.6	1192.4	1678.8	2884.1	4059.6	3958.2	3714.6	3847.1
72.5°	367.2	378.9	419.6	577.6	1009.3	2564.2	4556.7	4628.7	4098.0	3961.8
75°	269.4	275.9	304.3	367.2	423.8	1905.8	4378.5	4747.9	4145.9	3694.4
77.5°	201.7	204.6	227.7	290.9	217.0	1004.7	3498.6	3932.2	3549.1	3035.3
80°	146.3	149.5	166.8	218.3	152.1	367.5	2402.3	2760.0	2430.7	1934.8
82.5°	101.0	102.3	109.8	148.6	106.2	142.7	1363.1	1618.5	1356.9	678.9
85°	60.9	62.5	65.8	86.7	60.3	67.8	588.4	608.6	405.6	162.2
87.5°	25.1	26.7	29.3	36.5	23.8	18.9	97.1	121.8	75.9	47.6
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°
1111.6	0°	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6
1114.8	2.5°	1113.2	1110.9	1104.7	1096.3	1088.4	1078.7	1074.4	1070.8	1067.6	1061.4
1123.6	5°	1120.0	1113.8	1097.2	1075.7	1051.3	1024.6	998.5	980.6	965.3	953.9
1133.7	7.5°	1130.5	1118.7	1088.4	1044.5	988.4	931.1	879.3	842.5	814.8	804.7
1148.1	10°	1141.2	1127.2	1074.4	996.9	900.1	811.8	743.1	705.3	683.2	676.0
1165.0	12.5°	1153.9	1133.4	1052.6	930.8	801.4	704.7	644.7	622.6	611.2	607.3
1185.8	15°	1172.5	1138.6	1019.7	848.0	707.3	626.5	587.7	572.4	566.5	566.2
1207.3	17.5°	1186.5	1139.6	968.5	759.4	634.9	579.2	547.3	541.4	545.4	551.2
1228.5	20°	1202.1	1130.8	901.4	678.6	584.1	537.9	524.5	528.4	537.9	546.3
1256.5	22.5°	1213.2	1114.8	820.3	615.7	540.1	514.1	513.4	521.6	526.8	531.0
1289.4	25°	1223.0	1087.8	734.3	562.9	504.0	499.7	506.9	504.3	500.7	504.3
1322.3	27.5°	1230.1	1045.1	657.4	516.7	478.6	490.0	485.7	479.9	479.5	481.5
1361.1	30°	1227.9	988.1	594.2	472.7	460.7	471.7	461.6	460.7	459.7	460.7
1419.4	32.5°	1227.9	923.3	545.7	442.4	449.3	445.0	444.0	441.8	437.8	437.5
1498.6	35°	1234.7	858.4	504.0	426.1	439.8	429.7	430.4	424.8	416.7	412.8
1603.5	37.5°	1248.7	806.3	462.6	418.3	423.2	422.9	420.3	410.8	396.5	384.1
1734.5	40°	1282.6	791.0	434.3	414.7	415.4	419.3	412.4	394.2	361.6	341.4
1867.4	42.5°	1335.7	816.7	428.1	405.9	410.2	414.1	400.7	358.4	335.2	323.2
2006.8	45°	1403.1	861.7	441.4	393.2	397.8	404.6	364.9	344.7	334.3	334.6
2144.9	47.5°	1488.5	908.9	466.2	382.1	379.9	383.8	341.1	328.7	314.4	318.0
2277.5	50°	1587.2	956.8	489.6	367.2	360.0	347.3	325.8	314.1	295.8	287.3
2405.6	52.5°	1694.1	1003.1	499.1	348.9	338.5	323.8	315.4	301.0	278.9	264.9
2526.4	55°	1795.4	1045.1	488.7	327.1	317.0	305.6	304.3	295.5	271.7	252.2
2633.9	57.5°	1891.2	1080.3	462.6	304.9	295.2	288.3	297.1	292.9	262.9	237.8
2735.6	60°	1972.3	1104.4	424.8	282.5	275.6	272.0	285.4	284.1	250.5	222.5
2826.8	62.5°	2036.8	1113.8	383.1	261.0	259.3	252.8	269.1	269.1	234.9	207.5
2906.9	65°	2087.3	1104.7	340.8	239.8	243.0	233.3	249.2	247.3	218.3	194.2
2999.1	67.5°	2131.9	1074.8	293.9	218.9	226.4	214.0	228.4	223.8	200.0	180.8
3079.0	70°	2151.8	1005.0	240.4	198.1	207.2	195.1	207.5	199.1	179.5	166.5
2991.3	72.5°	1992.2	835.3	189.3	176.2	184.1	174.3	185.0	175.3	157.4	151.5
2583.1	75°	1648.1	626.8	145.6	152.5	158.3	150.8	158.0	150.8	134.5	138.8
1908.1	77.5°	1196.9	423.2	111.4	127.4	130.0	126.1	132.3	124.1	109.5	108.5
951.0	80°	595.2	247.9	87.3	100.7	99.7	97.1	104.2	100.3	88.0	93.2
256.7	82.5°	172.3	106.2	63.5	70.7	68.7	69.4	74.6	76.6	114.7	113.7
79.8	85°	54.1	41.7	38.1	39.4	37.5	38.4	44.0	87.3	80.8	47.2
24.8	87.5°	14.0	14.3	9.4	10.1	10.4	12.4	14.0	53.1	25.4	16.6
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>
1111.6
1058.5
944.4
787.1
664.9
608.2
567.5
553.5
549.3
533.3
506.6
484.8
464.2
441.8
416.7
388.3
344.0
323.2
336.2
327.1
289.6
264.5
252.2
236.5
221.5
206.5
192.9
179.5
163.9
146.6
126.7
103.6
92.2
116.3
51.1
17.6
0.0

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