

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: P939382

Luminaire Tested: **GALN-SB1D-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7019 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

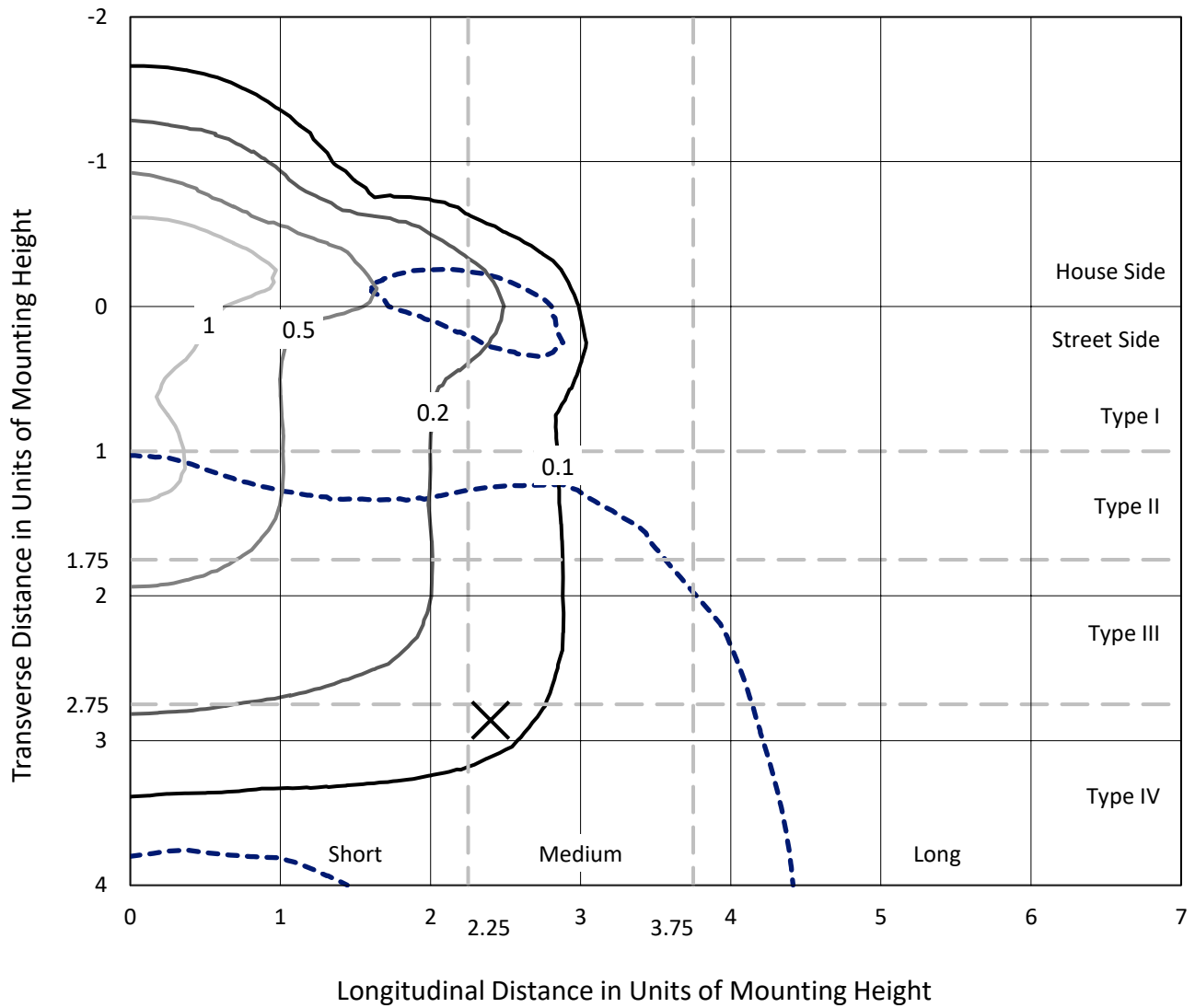
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

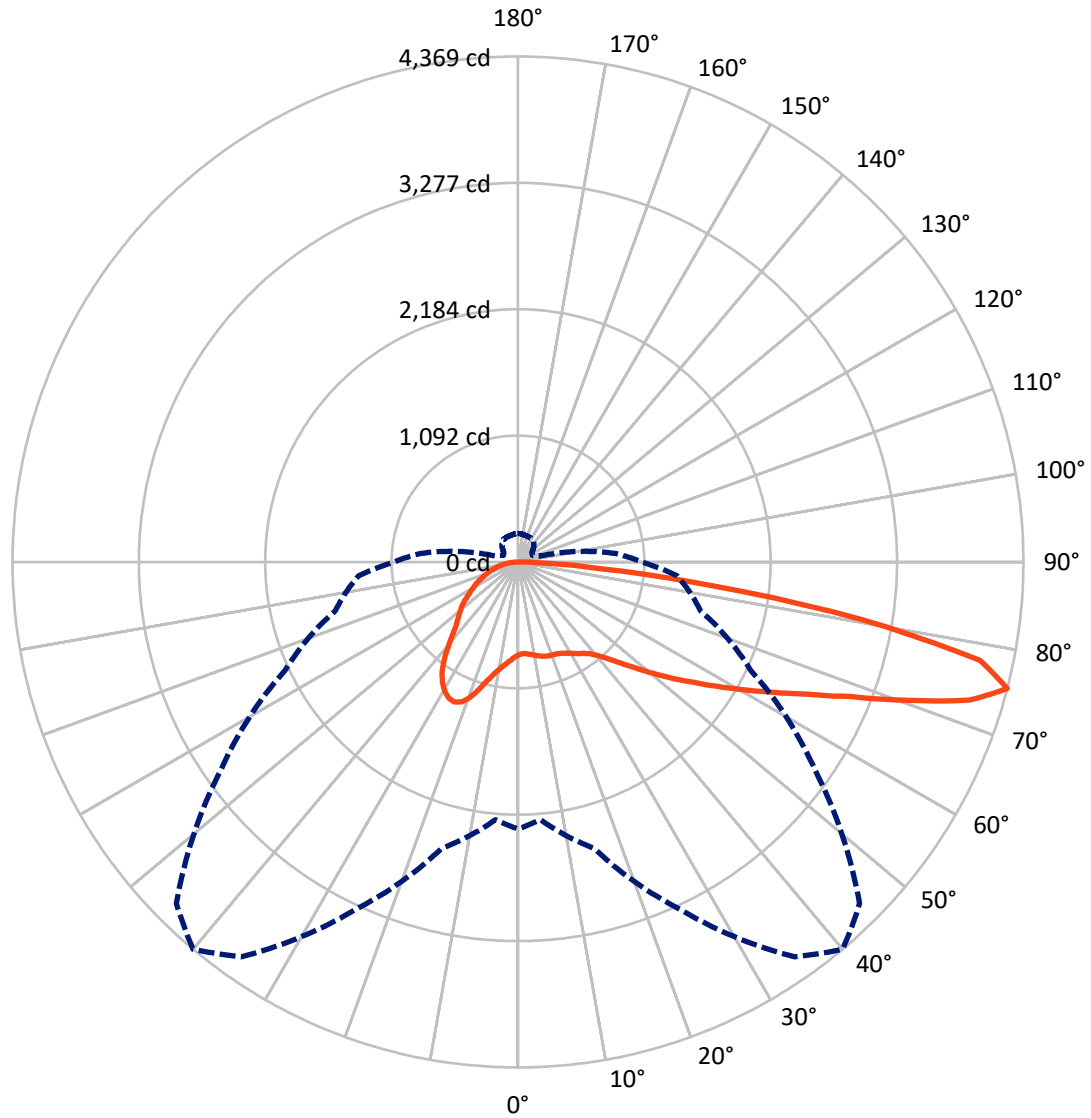
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2174.7	0.0	2174.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4844.3	0.0	4844.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	7019.0	0.0	7019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	1.1
10°-20°	269.0	3.8
20°-30°	491.2	7.0
30°-40°	696.6	9.9
40°-50°	940.6	13.4
50°-60°	1265.4	18.0
60°-70°	1606.1	22.9
70°-80°	1457.6	20.8
80°-90°	212.5	3.0
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°	7019.0	100.0
0°-180°	7019.0	100.0

Coefficient of Utilization



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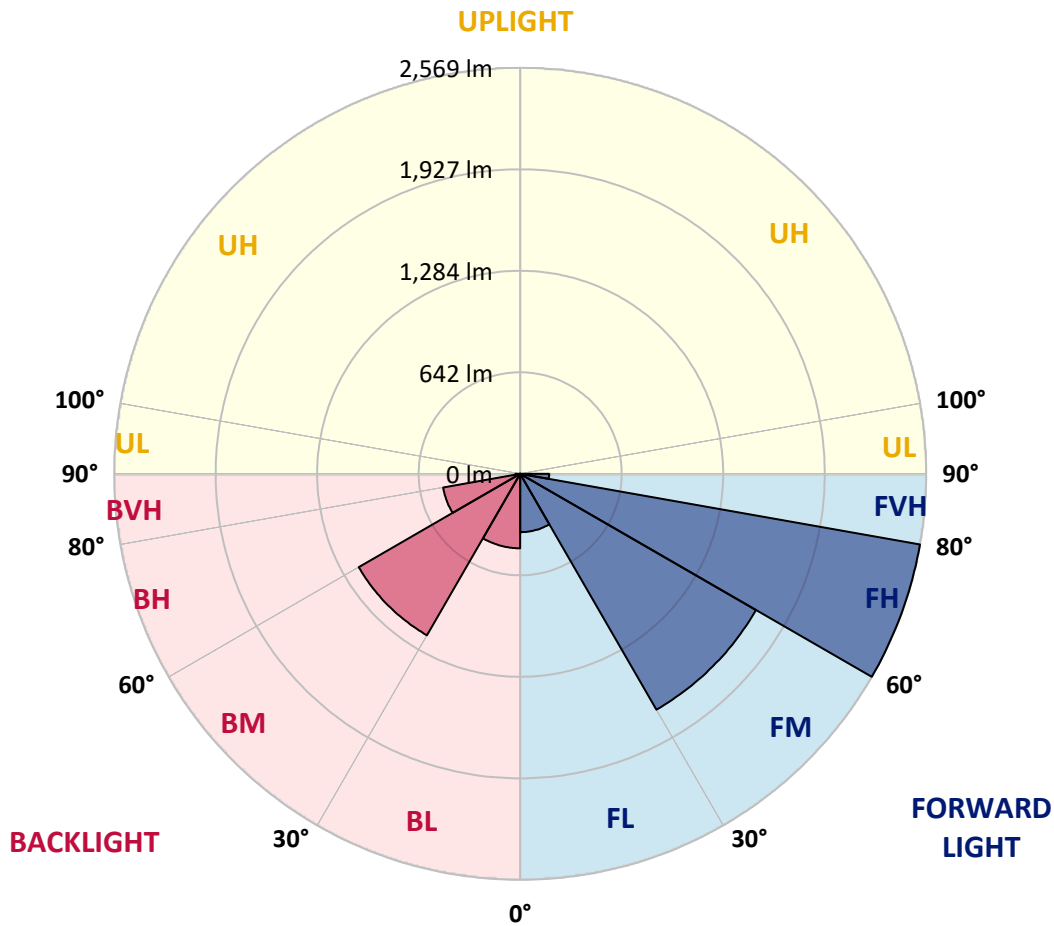
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.2	5.3			
FM (30°-60°)	1723.0	24.5			
FH (60°-80°)	2568.8	36.6			G2/5000
FVH (80°-90°)	183.2	2.6			G2/225
BL (0°-30°)	471.1	6.7	B1/500		
BM (30°-60°)	1179.6	16.8	B2/2500		
BH (60°-80°)	494.8	7.0	B1/500		G1/500
BVH (80°-90°)	29.3	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6
2.5°	790.3	794.8	793.7	792.2	792.2	792.6	792.2	794.8	797.4	800.0
5°	798.5	803.0	800.8	798.9	797.4	797.0	795.9	795.6	797.0	800.4
7.5°	814.5	819.0	815.7	812.3	809.3	807.8	806.4	804.1	803.0	804.9
10°	832.4	836.9	832.8	826.8	822.0	820.1	818.6	816.4	814.9	816.0
12.5°	850.3	854.8	849.2	841.0	834.6	833.5	831.7	830.9	830.6	830.2
15°	867.0	870.8	863.7	854.0	847.3	845.4	843.6	844.7	846.6	848.8
17.5°	880.1	883.8	873.4	860.7	854.4	853.6	852.5	856.2	861.5	867.0
20°	892.0	895.7	882.3	865.2	857.7	857.7	858.1	865.9	873.4	881.6
22.5°	908.7	911.7	895.3	871.9	861.1	861.8	864.8	872.6	881.9	893.1
25°	933.7	935.9	915.8	884.5	872.2	874.5	877.1	880.8	889.7	902.8
27.5°	973.9	975.7	949.3	906.9	888.3	892.0	895.7	893.1	897.2	908.4
30°	1030.5	1031.6	998.1	941.9	915.4	917.3	918.0	907.2	899.4	908.4
32.5°	1097.5	1097.1	1057.3	984.3	946.3	944.5	938.1	916.9	898.7	906.5
35°	1201.3	1197.2	1145.9	1043.9	981.3	969.8	954.9	927.7	902.4	904.6
37.5°	1373.3	1360.7	1289.6	1141.4	1033.4	1004.0	982.1	945.2	910.6	903.9
40°	1567.3	1551.3	1473.1	1275.1	1111.6	1064.3	1029.0	970.2	924.0	907.2
42.5°	1797.4	1774.7	1690.5	1432.5	1210.6	1142.1	1088.9	1001.8	943.7	918.0
45°	2079.9	2049.8	1930.6	1610.1	1335.4	1244.2	1173.0	1049.8	973.9	938.9
47.5°	2365.5	2372.9	2203.5	1813.4	1485.0	1370.0	1278.4	1122.0	1017.8	972.4
50°	2668.9	2674.1	2474.9	2038.6	1654.8	1512.2	1396.8	1202.8	1078.9	1020.0
52.5°	2905.6	2906.4	2721.4	2274.2	1831.6	1668.6	1524.5	1295.2	1149.6	1083.3
55°	3053.8	3051.9	2894.1	2497.2	2034.9	1832.7	1665.9	1400.1	1236.0	1157.8
57.5°	3161.4	3155.8	3013.2	2689.0	2251.5	2026.7	1826.0	1519.3	1338.0	1246.4
60°	3202.3	3199.0	3094.0	2854.6	2479.4	2241.1	2010.7	1652.5	1453.7	1351.0
62.5°	3218.0	3224.3	3173.3	3015.1	2723.2	2478.6	2213.6	1811.9	1584.0	1469.4
65°	3273.1	3284.6	3274.2	3225.0	2998.7	2756.7	2482.7	2001.4	1726.3	1596.3
67.5°	3382.1	3393.7	3398.2	3476.3	3335.2	3103.3	2818.5	2237.4	1892.7	1728.1
70°	3379.5	3376.2	3455.1	3676.2	3756.7	3583.2	3271.2	2527.8	2091.1	1837.6
72.5°	3076.1	3049.3	3235.8	3674.0	4107.3	4084.3	3824.0	2902.3	2262.3	1851.0
75°	2307.8	2236.3	2565.7	3311.0	4165.8	4368.7	4175.5	3134.6	2221.8	1635.4
77.5°	986.9	915.1	1303.3	2451.1	3728.4	4083.9	3853.1	2734.8	1773.5	1081.5
80°	258.4	258.0	393.9	1111.3	2535.6	3015.8	2645.8	1766.1	1013.3	386.4
82.5°	106.8	104.2	144.8	432.2	1238.9	1692.4	1381.2	787.7	365.9	104.6
85°	39.8	39.5	70.4	149.3	437.1	698.0	505.2	201.4	91.2	51.0
87.5°	11.2	10.8	15.3	51.7	106.5	161.6	86.4	33.1	25.7	20.1
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°
802.6	0°	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6	802.6
804.1	2.5°	805.2	807.1	810.4	813.1	816.4	820.1	825.3	828.7	832.0	834.3
806.0	5°	808.6	812.7	821.2	829.8	839.9	849.2	860.0	867.8	874.1	876.0
812.7	7.5°	816.0	822.7	837.3	851.8	867.8	883.0	898.7	912.1	922.9	927.0
824.6	10°	829.1	838.0	858.5	878.9	900.2	923.6	943.7	963.1	978.3	984.7
838.7	12.5°	845.4	856.6	883.4	911.7	941.1	973.5	999.6	1023.4	1042.4	1050.9
858.5	15°	866.7	881.2	915.4	953.4	996.6	1041.6	1074.8	1101.2	1122.4	1132.8
878.9	17.5°	889.7	909.1	952.3	1009.6	1071.4	1130.6	1169.3	1188.7	1210.6	1220.7
897.9	20°	912.1	935.9	997.7	1081.1	1163.4	1226.3	1257.6	1262.8	1264.3	1265.4
915.8	22.5°	935.2	967.2	1054.7	1171.2	1259.4	1303.0	1307.4	1285.1	1253.8	1239.3
933.3	25°	960.5	1002.9	1129.1	1270.6	1342.1	1347.3	1313.0	1258.7	1199.5	1172.3
947.4	27.5°	985.0	1044.2	1218.5	1365.5	1401.6	1355.8	1282.1	1205.1	1133.6	1104.9
957.5	30°	1009.6	1091.5	1317.1	1448.5	1428.8	1334.6	1233.4	1147.4	1075.5	1045.4
966.4	32.5°	1034.6	1146.6	1430.7	1508.5	1424.0	1289.6	1172.7	1082.6	1019.3	987.7
974.3	35°	1062.9	1214.4	1538.3	1541.2	1391.6	1223.3	1092.6	1005.2	950.1	924.7
983.6	37.5°	1099.7	1300.4	1633.2	1549.4	1335.0	1126.1	993.2	913.6	868.2	856.6
997.3	40°	1145.5	1403.9	1705.8	1536.4	1251.2	1008.1	884.5	820.9	795.2	797.8
1015.9	42.5°	1205.1	1519.6	1756.8	1502.9	1134.7	886.4	789.2	760.9	773.2	783.6
1043.9	45°	1282.5	1639.9	1788.4	1445.9	1002.9	783.3	733.0	739.7	749.0	750.1
1088.9	47.5°	1381.5	1761.6	1809.3	1359.9	868.5	710.7	697.3	698.8	696.9	689.1
1156.3	50°	1505.1	1880.0	1827.9	1246.0	754.2	665.3	647.4	642.2	616.5	591.2
1246.0	52.5°	1645.8	1988.7	1835.7	1104.5	665.3	627.3	598.3	565.5	517.5	509.6
1358.8	55°	1802.2	2089.2	1815.6	930.7	590.4	578.5	534.6	495.1	489.9	483.2
1507.4	57.5°	1989.1	2197.6	1774.7	736.7	513.7	521.6	478.7	483.2	473.9	463.5
1698.3	60°	2193.5	2309.6	1702.8	559.9	434.4	450.5	464.2	463.9	461.3	452.7
1899.7	62.5°	2377.4	2383.3	1561.3	428.9	364.8	395.4	433.0	432.6	430.4	425.5
2110.1	65°	2486.8	2372.2	1325.3	337.7	307.5	349.9	390.5	393.5	393.9	393.5
2268.3	67.5°	2467.5	2241.5	1001.4	268.8	260.2	303.8	348.5	352.5	355.5	356.3
2288.4	70°	2248.6	1954.5	653.0	214.4	218.2	263.2	308.6	312.7	315.3	318.3
1985.7	72.5°	1752.7	1437.0	373.8	173.5	181.3	228.2	269.2	274.0	275.5	281.1
1381.9	75°	1068.1	845.1	201.8	136.6	148.9	195.1	230.1	235.7	238.3	245.0
678.7	77.5°	507.8	365.9	115.0	106.5	119.9	159.3	194.3	200.7	193.6	197.3
187.3	80°	171.6	135.9	72.6	81.2	91.6	124.3	155.6	161.9	147.0	146.3
62.2	82.5°	59.9	55.1	46.2	54.0	59.2	89.0	117.6	125.8	109.4	109.1
27.9	85°	23.5	22.3	25.7	29.4	35.4	54.7	77.4	81.5	67.4	54.4
8.2	87.5°	4.8	5.2	6.3	6.7	10.8	19.0	27.9	34.2	27.2	23.1
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>
802.6
832.8
876.7
927.3
985.0
1050.9
1132.1
1220.3
1268.4
1243.4
1176.4
1108.3
1048.7
991.7
930.3
864.8
806.7
793.3
757.6
695.0
594.5
512.3
484.3
461.6
449.7
423.7
393.5
357.0
319.8
283.3
245.7
194.3
144.8
103.9
53.6
21.2
0.0

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