

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: P940874

Luminaire Tested: **GALN-SB4A-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7991 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

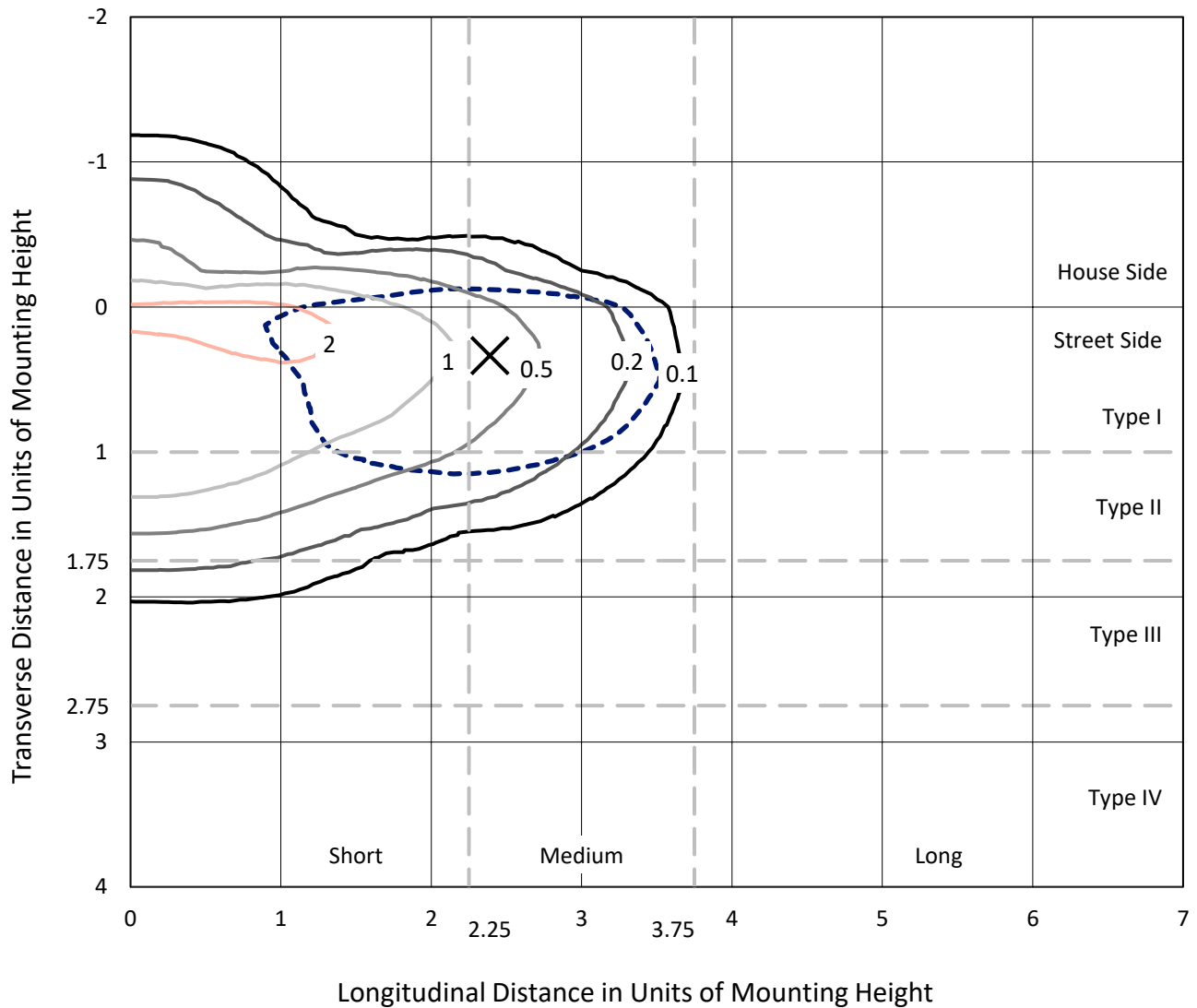
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

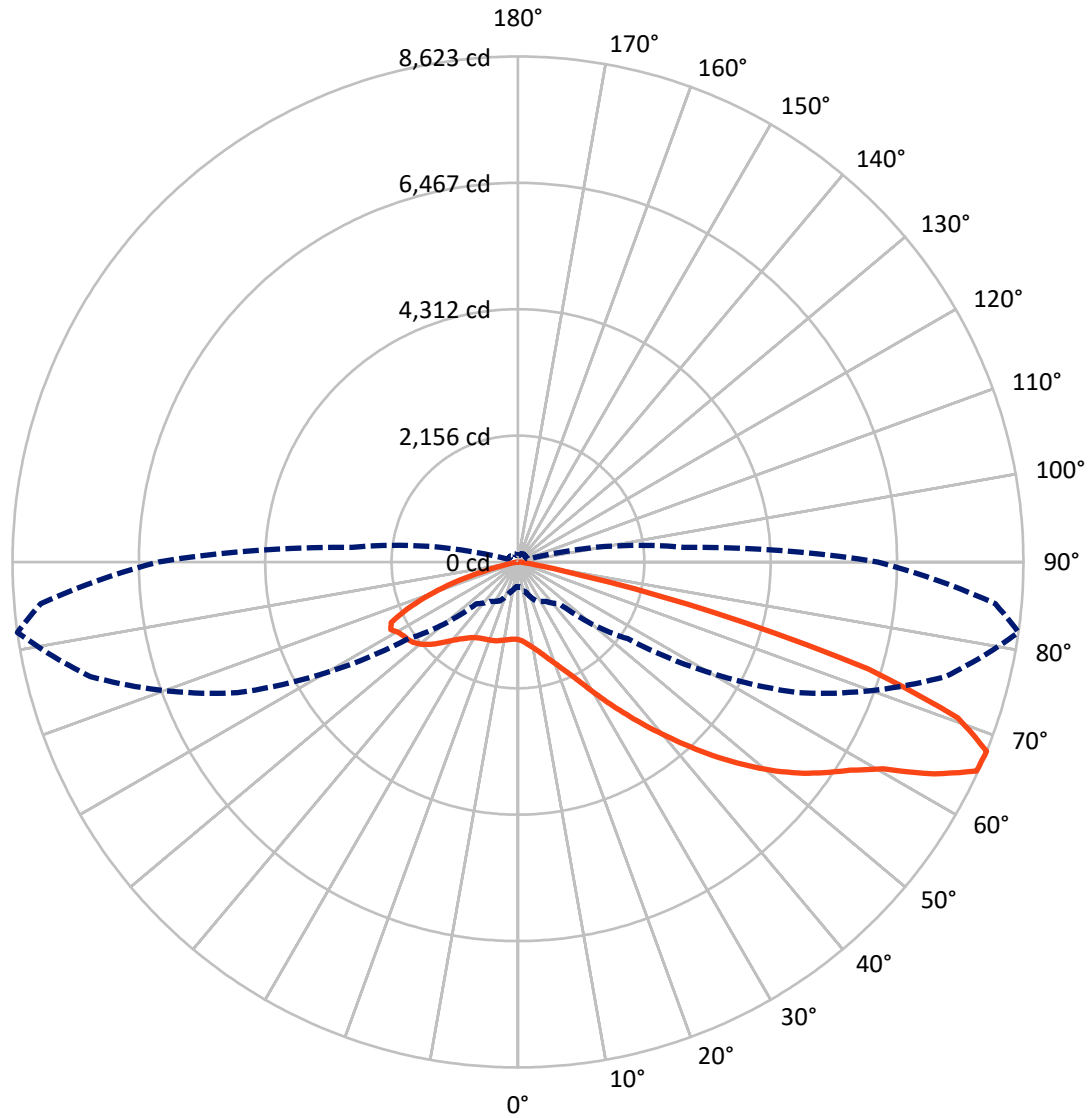
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1447.5	0.0	1447.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6543.5	0.0	6543.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	7991.0	0.0	7991.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.5
10°-20°	306.5	3.8
20°-30°	490.9	6.1
30°-40°	868.1	10.9
40°-50°	1520.9	19.0
50°-60°	2028.5	25.4
60°-70°	1888.4	23.6
70°-80°	724.8	9.1
80°-90°	45.0	0.6
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°	7991.0	100.0
0°-180°	7991.0	100.0



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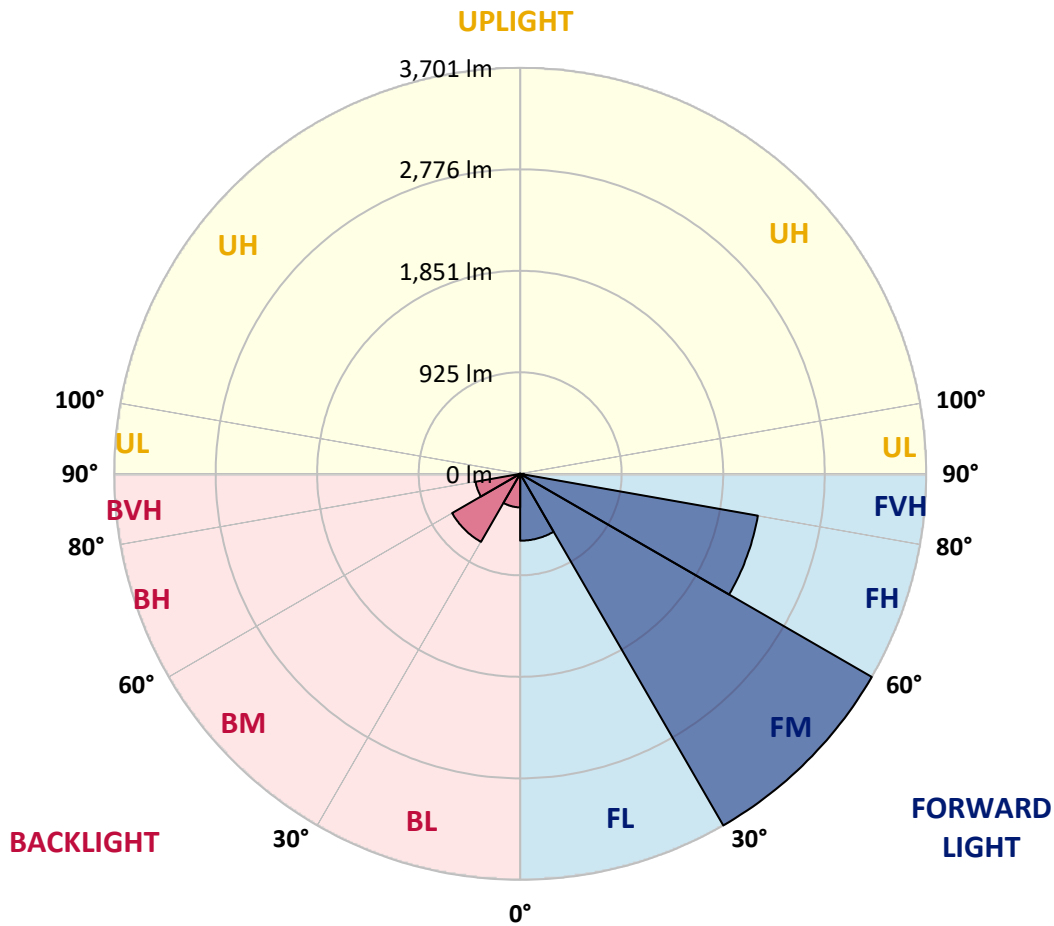
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.6	7.6			
FM (30°-60°)	3701.1	46.3			
FH (60°-80°)	2200.0	27.5			G2/5000
FVH (80°-90°)	32.7	0.4			G1/100
BL (0°-30°)	305.7	3.8	B1/500		
BM (30°-60°)	716.4	9.0	B1/1000		
BH (60°-80°)	413.1	5.2	B1/500		G1/500
BVH (80°-90°)	12.3	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1399.2	1407.3	1402.7	1400.4	1396.3	1390.6	1386.0	1371.6	1356.6	1346.9
5°	1427.4	1435.5	1434.9	1437.2	1440.1	1441.8	1440.6	1424.5	1403.2	1386.5
7.5°	1403.2	1412.4	1419.9	1431.4	1451.6	1472.8	1483.2	1479.8	1457.9	1434.9
10°	1334.8	1344.6	1362.4	1389.4	1432.0	1478.0	1516.6	1534.4	1520.6	1495.3
12.5°	1209.3	1219.1	1254.2	1312.9	1384.2	1464.2	1537.9	1585.6	1589.1	1563.8
15°	1068.4	1078.2	1115.6	1189.2	1297.9	1426.2	1549.4	1639.7	1670.2	1648.3
17.5°	980.9	989.6	1017.8	1077.0	1190.4	1350.3	1545.3	1697.2	1766.8	1749.6
20°	954.5	962.0	975.2	1016.6	1111.0	1271.5	1518.9	1751.3	1871.0	1861.2
22.5°	982.7	989.6	993.6	1012.0	1071.3	1219.7	1485.5	1806.5	1991.8	1992.9
25°	1047.7	1054.6	1050.0	1061.5	1087.4	1203.6	1472.8	1871.6	2143.7	2156.3
27.5°	1154.7	1155.3	1144.3	1143.8	1147.8	1227.8	1486.1	1941.2	2335.3	2358.9
30°	1369.3	1360.7	1318.7	1273.2	1252.5	1300.2	1522.9	2023.4	2561.4	2603.4
32.5°	1700.1	1687.4	1610.4	1501.6	1392.3	1417.0	1589.1	2117.2	2807.6	2883.6
35°	2059.1	2055.7	1975.1	1813.4	1622.4	1583.3	1696.7	2240.3	3076.3	3197.1
37.5°	2392.8	2391.1	2345.1	2154.6	1922.2	1815.2	1869.3	2401.4	3364.0	3538.9
40°	2697.7	2702.9	2656.9	2486.6	2252.4	2112.6	2104.0	2600.5	3683.8	3911.1
42.5°	2961.2	2967.0	2920.4	2794.4	2578.6	2441.7	2392.2	2844.4	3996.3	4311.0
45°	3140.2	3175.8	3168.9	3068.2	2913.5	2771.4	2738.6	3150.5	4352.4	4735.0
47.5°	3190.8	3223.6	3275.4	3289.2	3194.8	3055.0	3094.1	3519.3	4712.5	5159.6
50°	3065.9	3096.4	3204.0	3347.3	3412.9	3369.7	3439.9	3914.6	5081.3	5583.0
52.5°	2819.7	2850.8	2986.5	3213.2	3480.8	3616.5	3786.8	4304.1	5438.6	5984.0
55°	2463.6	2496.4	2670.7	2927.3	3351.3	3718.4	4076.2	4693.0	5766.0	6344.8
57.5°	1979.1	2003.3	2184.5	2543.5	3025.7	3617.1	4289.7	5117.6	6074.4	6699.2
60°	1289.9	1311.2	1521.8	1922.2	2486.0	3278.8	4332.2	5591.1	6484.0	7160.0
62.5°	857.8	872.2	997.0	1291.0	1750.7	2629.3	4083.1	5969.1	7084.6	7962.0
65°	588.6	602.9	727.8	932.6	1131.1	1739.2	3366.8	5919.0	7628.9	8598.9
67.5°	420.0	432.1	537.9	731.2	818.7	1010.3	2282.3	5279.2	7550.7	8623.1
70°	300.9	307.8	395.3	569.6	650.7	607.0	1269.2	4037.7	6611.1	7962.6
72.5°	210.6	212.9	274.4	433.8	524.1	443.0	604.1	2692.0	5000.2	6249.8
75°	142.7	145.6	184.7	318.2	420.6	338.3	319.9	1443.5	2935.3	3459.5
77.5°	87.5	88.6	119.1	217.5	314.7	257.7	206.0	611.6	1135.7	1115.0
80°	49.5	49.5	75.9	135.2	214.6	166.3	144.4	260.0	359.6	315.9
82.5°	27.6	28.2	55.2	84.0	142.1	98.4	79.4	120.2	155.3	137.5
85°	11.5	12.7	33.9	39.7	67.9	48.9	32.2	50.6	57.5	51.2
87.5°	1.2	1.7	10.4	7.5	8.1	9.8	4.6	9.8	8.1	8.1
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°
1323.8	0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
1343.4	2.5°	1332.5	1323.8	1302.0	1276.7	1243.3	1227.2	1205.3	1190.4	1177.7	1178.9
1376.8	5°	1358.4	1336.5	1287.6	1226.6	1150.7	1096.6	1039.0	999.4	967.1	960.2
1422.8	7.5°	1394.0	1359.5	1273.8	1163.9	1035.6	938.4	851.5	795.7	756.0	743.3
1478.6	10°	1440.1	1390.0	1255.9	1085.1	900.4	776.7	683.5	639.8	612.7	603.5
1544.2	12.5°	1493.6	1425.1	1232.4	989.0	761.2	642.1	582.8	560.9	552.3	549.4
1624.7	15°	1560.9	1468.8	1196.7	875.1	643.2	559.8	534.5	531.6	532.8	531.6
1721.4	17.5°	1640.8	1516.6	1138.6	757.7	563.8	517.8	508.6	510.9	513.8	513.2
1829.6	20°	1728.3	1563.8	1064.4	653.6	509.7	487.9	482.7	485.0	487.3	486.2
1954.4	22.5°	1827.8	1614.4	982.1	572.5	473.5	460.3	454.5	455.1	455.1	452.8
2112.6	25°	1946.9	1670.2	895.8	514.9	445.9	435.5	428.6	426.3	422.9	416.0
2304.8	27.5°	2089.0	1729.4	812.9	474.6	424.0	414.2	406.2	400.4	391.8	380.3
2535.5	30°	2249.0	1801.4	742.8	449.3	406.8	397.0	387.8	379.1	366.5	352.1
2800.7	32.5°	2437.1	1878.5	691.5	432.6	391.2	380.9	369.9	359.6	345.8	331.4
3098.7	35°	2661.5	1971.7	661.6	421.1	379.1	365.3	353.3	341.7	331.4	318.7
3422.6	37.5°	2904.8	2070.6	652.4	415.4	371.1	349.8	336.0	327.9	326.8	319.3
3773.0	40°	3171.2	2188.0	659.3	411.9	362.5	334.8	319.9	318.2	321.0	307.8
4147.6	42.5°	3453.1	2327.2	670.8	407.9	350.4	319.9	305.5	305.5	303.2	284.8
4543.4	45°	3758.1	2487.7	682.3	398.1	336.0	304.9	294.0	290.0	280.2	262.4
4941.5	47.5°	4065.3	2651.1	691.0	380.3	318.7	292.3	282.5	273.3	258.9	242.8
5332.2	50°	4357.0	2797.8	681.8	353.8	299.2	280.2	269.8	257.2	241.6	230.7
5702.1	52.5°	4617.6	2925.0	642.6	322.8	278.5	267.5	258.3	245.1	232.4	220.9
6035.8	55°	4844.3	3028.0	573.6	293.4	260.0	256.6	247.4	230.7	213.4	203.7
6366.6	57.5°	5061.8	3106.2	487.3	269.3	243.4	244.5	230.7	215.7	199.6	189.3
6812.5	60°	5351.2	3210.9	399.9	246.8	225.5	229.0	214.0	203.1	183.0	169.7
7577.1	62.5°	5813.7	3373.7	317.6	219.2	204.8	206.0	199.6	186.4	162.2	146.7
8143.8	65°	6180.8	3313.9	250.3	189.3	181.2	183.0	183.0	168.6	142.7	124.8
8174.3	67.5°	6139.4	2837.5	199.6	159.9	158.8	159.9	164.0	151.9	126.6	112.2
7551.8	70°	5655.5	2257.0	159.9	132.9	138.1	135.2	146.7	138.7	113.9	99.5
5854.6	72.5°	4614.7	1625.9	122.0	109.9	105.9	110.5	132.3	124.8	94.9	78.8
3101.0	75°	2696.6	867.6	90.9	86.9	76.5	92.1	117.4	106.4	72.5	58.1
950.4	77.5°	878.0	302.6	66.7	63.9	57.0	74.2	100.1	89.8	59.3	46.0
278.5	80°	235.3	91.5	45.5	42.0	36.8	55.2	79.4	71.3	42.6	29.9
119.7	82.5°	94.4	38.5	26.5	23.6	20.1	38.0	62.7	57.5	31.6	19.0
37.4	85°	30.5	12.7	9.8	7.5	9.2	23.6	37.4	39.1	22.4	9.8
5.8	87.5°	4.0	1.7	1.7	2.3	1.7	4.0	11.5	10.9	6.3	1.2
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>
1323.8
1167.3
944.7
730.7
596.6
547.7
531.0
512.0
485.6
451.6
414.8
379.1
351.0
332.0
317.6
318.7
308.4
284.8
261.8
242.2
229.0
219.8
202.5
188.1
168.0
145.6
123.1
109.9
97.8
77.1
56.4
44.3
29.3
19.0
7.5
0.0
0.0

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