

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: P939095

Luminaire Tested: **GALN-SB1C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7853 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

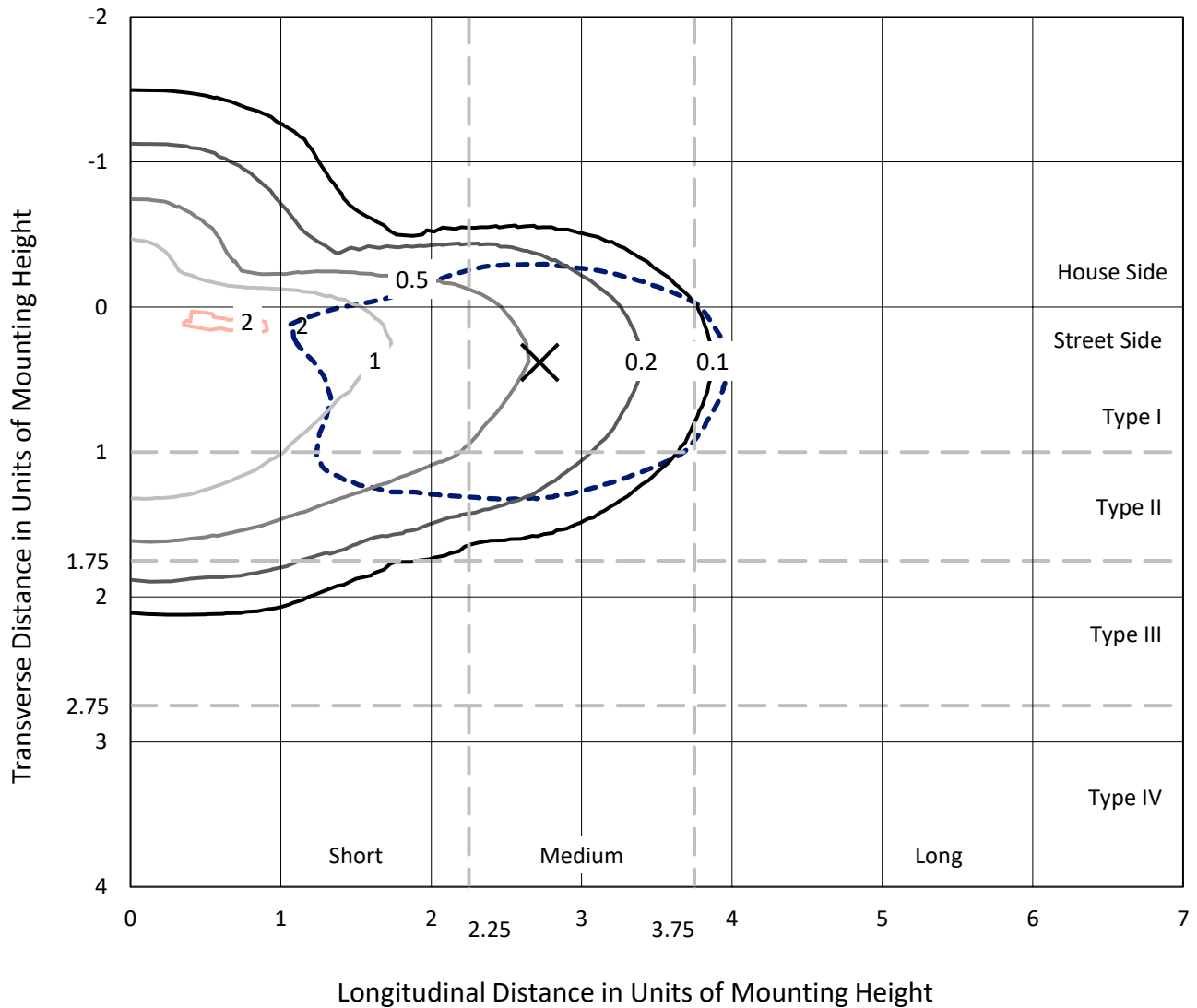
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

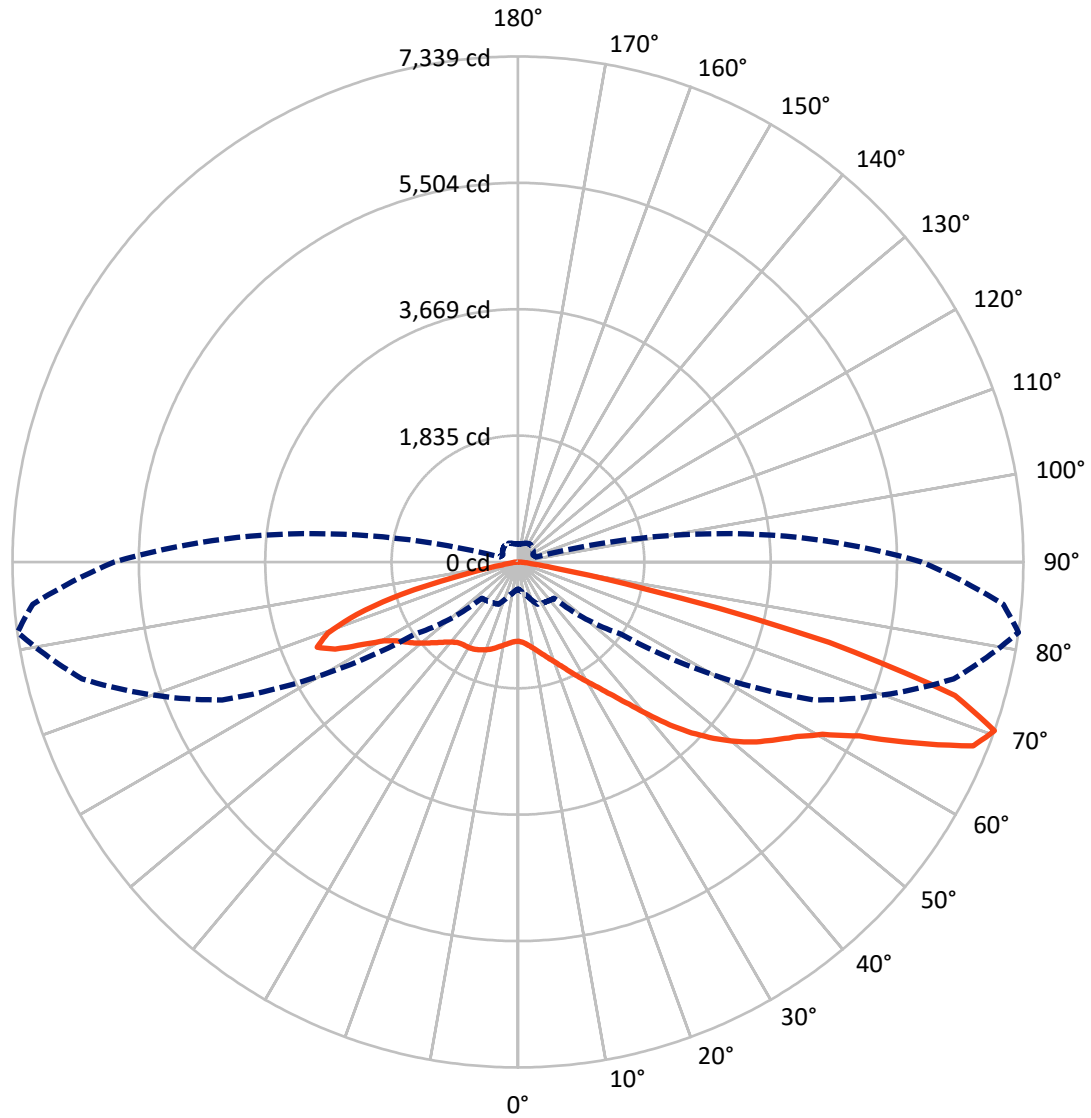
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1936.0	0.0	1936.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5917.0	0.0	5917.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	7853.0	0.0	7853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	1.4
10°-20°	312.3	4.0
20°-30°	522.5	6.7
30°-40°	816.3	10.4
40°-50°	1300.0	16.6
50°-60°	1809.1	23.0
60°-70°	1892.4	24.1
70°-80°	989.1	12.6
80°-90°	102.7	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°	7853.0	100.0
0°-180°	7853.0	100.0

Coefficient of Utilization



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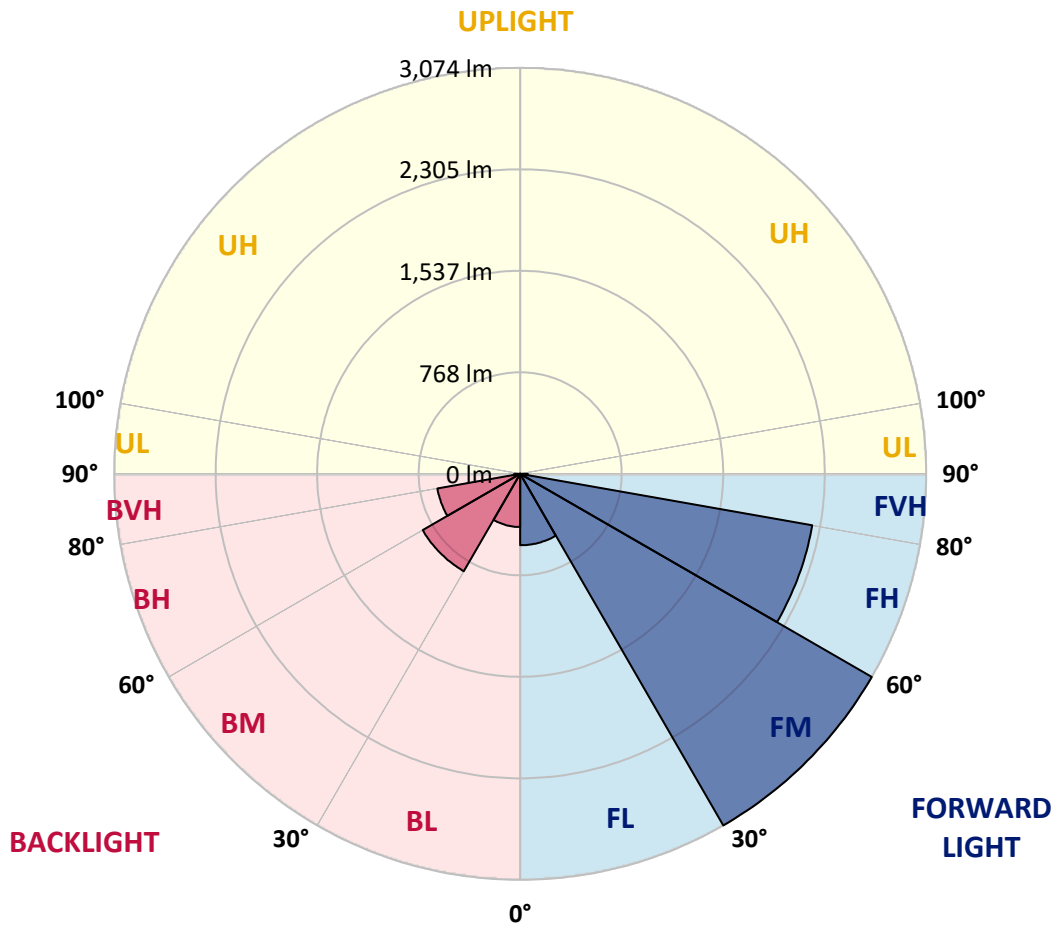
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.8	6.9			
FM (30°-60°)	3073.6	39.1			
FH (60°-80°)	2245.2	28.6			G2/5000
FVH (80°-90°)	57.5	0.7			G1/100
BL (0°-30°)	402.7	5.1	B1/500		
BM (30°-60°)	851.7	10.8	B1/1000		
BH (60°-80°)	636.3	8.1	B2/1000		G2/1000
BVH (80°-90°)	45.2	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1178.9	1185.5	1183.4	1181.4	1181.4	1178.4	1178.0	1173.8	1170.5	1165.1
5°	1193.9	1200.9	1200.1	1201.8	1207.2	1208.4	1209.7	1207.2	1200.5	1193.9
7.5°	1180.5	1188.4	1190.9	1200.9	1217.6	1232.6	1243.9	1248.4	1242.2	1232.6
10°	1135.5	1144.3	1153.0	1176.8	1206.4	1241.8	1271.8	1289.7	1288.4	1279.3
12.5°	1044.3	1053.4	1072.2	1118.4	1172.6	1235.1	1290.9	1328.4	1341.4	1334.7
15°	971.3	979.3	993.4	1040.9	1111.3	1206.4	1298.0	1371.0	1403.9	1400.1
17.5°	969.2	972.6	981.3	1003.8	1058.0	1161.3	1290.5	1412.6	1475.5	1475.1
20°	1005.9	1007.2	1012.2	1016.8	1047.6	1127.2	1271.4	1447.2	1556.0	1556.0
22.5°	1056.8	1055.9	1060.9	1056.8	1071.8	1124.3	1259.3	1477.6	1645.6	1652.2
25°	1133.0	1128.8	1127.6	1118.0	1120.9	1151.3	1272.6	1512.2	1751.8	1765.6
27.5°	1234.7	1228.0	1223.4	1201.4	1193.9	1207.2	1313.4	1553.9	1870.2	1893.9
30°	1367.2	1355.1	1348.4	1310.1	1283.0	1285.1	1375.1	1609.3	1993.9	2032.3
32.5°	1548.0	1529.3	1511.4	1448.5	1398.9	1382.6	1454.7	1686.0	2128.1	2189.4
35°	1750.6	1735.6	1716.4	1619.3	1543.0	1505.5	1562.2	1793.1	2285.2	2382.3
37.5°	1945.6	1932.7	1941.8	1811.0	1712.6	1658.1	1703.1	1936.8	2479.0	2622.3
40°	2147.3	2137.3	2138.5	2013.5	1898.9	1837.7	1873.9	2117.3	2701.1	2907.7
42.5°	2366.5	2359.0	2333.9	2223.1	2094.3	2037.3	2070.6	2325.6	2939.4	3232.8
45°	2611.9	2607.3	2584.0	2456.9	2309.4	2245.2	2290.2	2555.6	3179.0	3538.6
47.5°	2824.0	2827.7	2824.8	2717.7	2564.8	2470.6	2524.4	2795.7	3402.0	3826.2
50°	2926.1	2945.7	2974.4	2941.1	2846.1	2750.2	2760.7	3027.3	3614.5	4095.8
52.5°	2872.7	2909.8	2988.2	3041.5	3078.2	3058.2	3030.3	3257.4	3814.5	4339.1
55°	2674.0	2726.1	2856.1	2984.8	3171.9	3317.4	3354.0	3512.4	4009.5	4553.3
57.5°	2311.9	2396.5	2513.1	2773.6	3088.6	3442.8	3731.6	3866.2	4216.2	4782.1
60°	1691.0	1804.3	1949.3	2336.9	2796.9	3375.7	4052.8	4409.5	4510.0	5078.3
62.5°	1082.2	1152.2	1285.5	1650.6	2179.4	3031.9	4151.2	5088.8	5007.9	5564.2
65°	740.9	785.9	908.0	1113.0	1408.9	2256.9	3887.8	5598.0	5798.8	6334.3
67.5°	538.4	572.5	676.7	856.3	918.0	1335.5	3016.9	5574.6	6567.6	7127.7
70°	392.5	416.7	504.2	676.7	706.3	743.0	1827.7	4738.7	6551.0	7338.5
72.5°	290.9	307.5	366.3	525.0	571.7	501.7	904.7	3444.0	5629.2	6637.6
75°	210.4	222.9	266.3	401.7	457.5	382.1	451.3	2012.7	3926.6	4669.1
77.5°	160.8	170.4	198.8	294.2	366.3	286.7	280.0	925.9	1861.8	1871.0
80°	129.2	135.4	150.8	207.1	280.9	214.6	182.5	373.8	588.4	498.0
82.5°	95.0	105.4	127.5	145.4	200.9	147.9	111.3	188.8	223.8	192.5
85°	54.2	61.3	77.1	104.2	128.3	90.4	63.8	83.8	104.2	85.4
87.5°	19.2	25.0	27.1	40.8	55.8	37.5	24.6	24.2	34.2	25.4
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°
1151.3	0°	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3
1163.8	2.5°	1159.7	1157.6	1149.3	1138.0	1126.3	1115.1	1111.3	1103.4	1098.0	1095.1
1190.9	5°	1183.0	1176.4	1156.8	1131.8	1105.5	1077.2	1057.2	1038.8	1025.5	1013.0
1228.0	7.5°	1216.4	1204.7	1170.9	1127.2	1080.5	1033.4	998.4	971.7	953.8	942.2
1271.4	10°	1255.1	1237.2	1185.5	1120.1	1048.0	980.5	939.2	916.3	905.1	898.8
1320.9	12.5°	1299.7	1274.3	1200.5	1103.8	998.4	921.3	893.0	886.3	886.7	887.2
1383.5	15°	1354.7	1319.3	1212.6	1068.4	933.8	875.9	870.9	881.7	893.0	898.4
1454.3	17.5°	1416.8	1366.8	1214.7	1010.1	870.5	846.7	862.6	885.9	903.0	910.5
1533.5	20°	1483.5	1415.1	1199.7	927.6	818.4	823.0	851.3	881.3	900.1	909.7
1623.9	22.5°	1559.7	1466.8	1163.8	840.9	775.9	797.2	830.5	859.7	879.2	888.8
1730.1	25°	1646.8	1524.7	1107.6	768.0	739.2	768.0	801.3	825.5	841.3	850.1
1848.9	27.5°	1743.5	1585.1	1032.6	710.1	707.1	738.0	765.5	784.2	792.6	799.2
1975.2	30°	1840.6	1640.1	941.7	666.3	679.2	708.4	728.0	736.3	738.8	740.1
2116.0	32.5°	1945.6	1687.6	846.3	630.1	652.6	679.6	691.3	695.1	683.4	675.5
2286.9	35°	2072.7	1738.5	753.0	601.3	626.3	649.6	653.4	650.1	636.3	620.1
2501.0	37.5°	2229.8	1801.8	678.4	580.9	601.7	617.1	612.6	611.7	613.0	593.8
2758.6	40°	2422.3	1884.3	623.8	565.0	581.7	585.0	572.1	579.2	585.5	556.3
3041.1	42.5°	2636.1	1983.9	589.2	554.2	565.0	557.1	537.1	545.0	544.2	505.9
3324.9	45°	2854.0	2092.3	577.1	546.3	549.6	533.8	511.7	513.8	496.3	461.7
3597.0	47.5°	3070.7	2208.5	584.6	539.6	530.5	512.5	495.5	486.3	460.5	434.6
3857.8	50°	3283.2	2330.6	612.1	526.3	504.2	493.8	481.3	465.0	437.5	415.5
4104.5	52.5°	3480.3	2453.5	643.0	504.2	471.3	477.5	469.6	450.9	423.8	401.3
4337.9	55°	3667.0	2576.5	655.1	473.8	440.5	463.4	458.8	424.2	391.7	373.4
4582.1	57.5°	3870.3	2724.4	641.7	435.0	415.5	447.1	429.6	391.3	372.5	358.8
4900.0	60°	4152.0	2956.5	613.0	387.1	391.7	423.0	393.0	377.1	356.7	341.3
5376.7	62.5°	4620.0	3389.5	566.7	339.6	363.8	387.1	375.4	359.6	338.8	323.8
6191.8	65°	5311.7	3991.2	479.6	302.5	332.5	352.1	356.7	340.9	319.2	303.4
6906.0	67.5°	5895.1	4368.7	362.9	271.7	300.4	323.8	336.7	321.3	298.4	282.9
7073.1	70°	5863.0	4094.5	277.1	241.3	272.1	295.9	312.5	300.4	275.9	261.3
6424.7	72.5°	5207.5	3425.3	224.2	210.4	243.4	266.7	286.7	277.5	252.5	238.4
4706.7	75°	3825.7	2431.5	179.2	179.2	207.5	236.3	258.4	252.5	229.6	219.6
1976.0	77.5°	1612.6	1020.1	140.4	148.8	172.5	202.9	230.4	232.5	212.5	225.0
522.5	80°	428.8	281.3	107.1	117.1	135.4	167.5	200.4	199.6	177.9	166.3
194.2	82.5°	163.3	110.8	76.3	82.5	97.9	128.3	158.8	163.8	142.1	122.9
76.3	85°	62.9	47.5	47.1	49.6	57.1	85.0	120.0	124.2	107.1	90.8
21.3	87.5°	16.3	14.2	17.5	16.7	26.3	45.4	68.8	71.3	65.4	37.9
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>
1151.3
1098.4
1018.0
944.7
900.5
888.0
898.0
912.2
912.2
891.3
852.6
801.7
743.0
678.0
620.9
595.1
557.1
505.5
463.0
434.6
413.8
401.7
371.7
357.5
340.4
323.8
304.2
283.4
262.5
238.4
216.7
204.2
154.6
122.9
93.8
54.2
0.0

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