

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: P939435

Luminaire Tested: **GALN-SB2A-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939435
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-SB2A-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9404 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

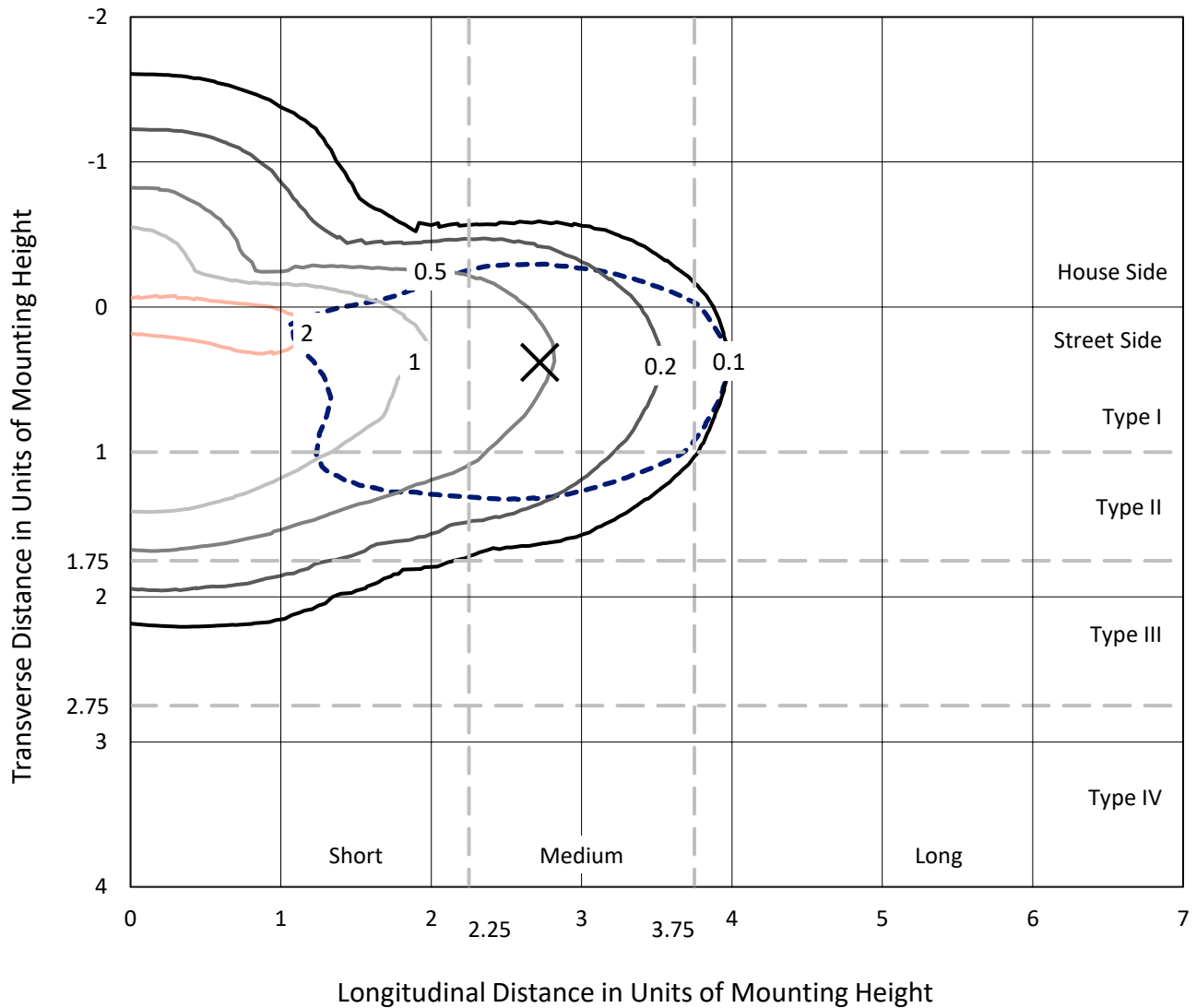
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

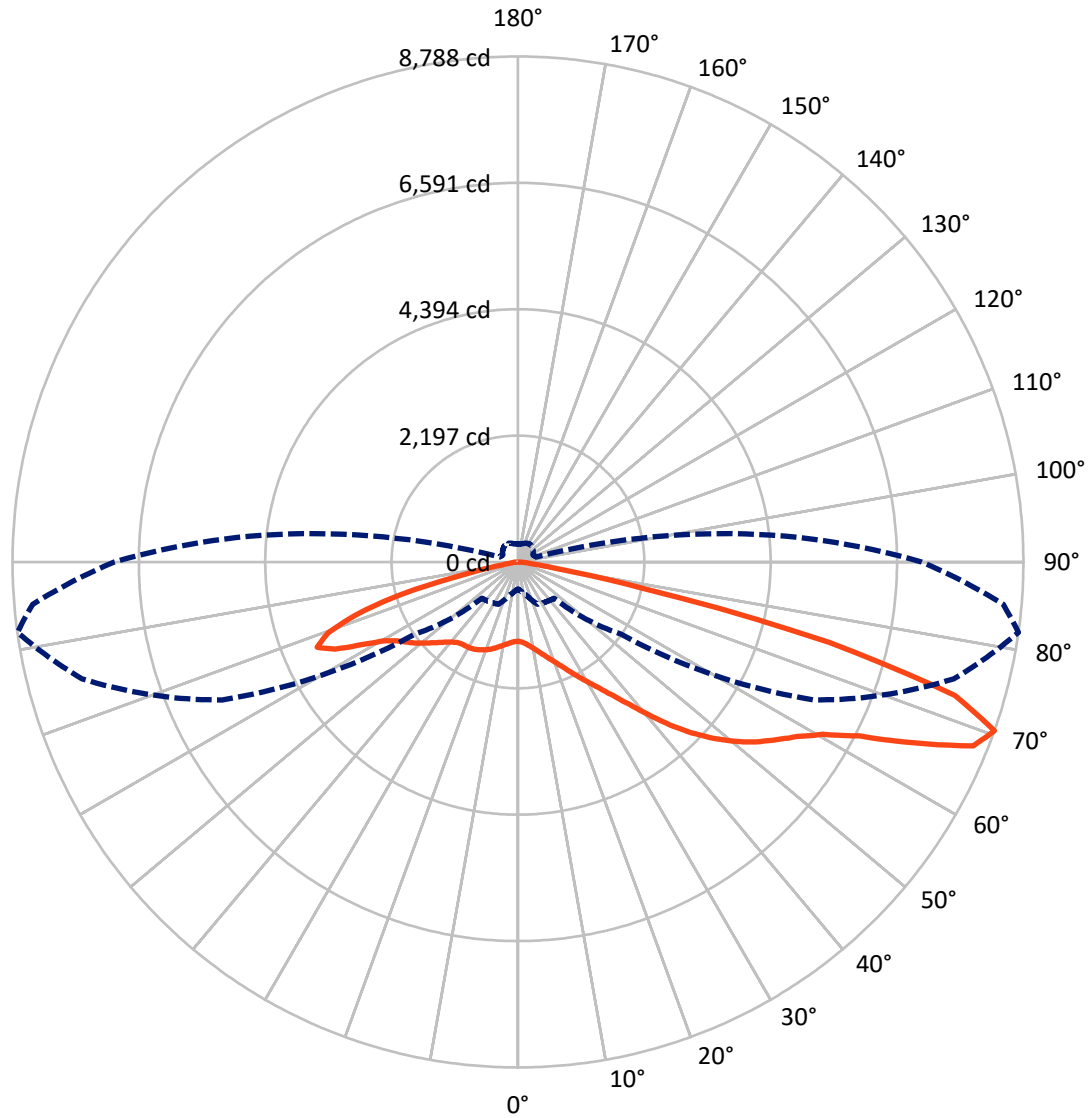
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	2318.3	0.0	2318.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7085.7	0.0	7085.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	9404.0	0.0	9404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	1.4
10°-20°	374.0	4.0
20°-30°	625.7	6.7
30°-40°	977.5	10.4
40°-50°	1556.7	16.6
50°-60°	2166.4	23.0
60°-70°	2266.1	24.1
70°-80°	1184.4	12.6
80°-90°	123.0	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°	9404.0	100.0
0°-180°	9404.0	100.0

Coefficient of Utilization



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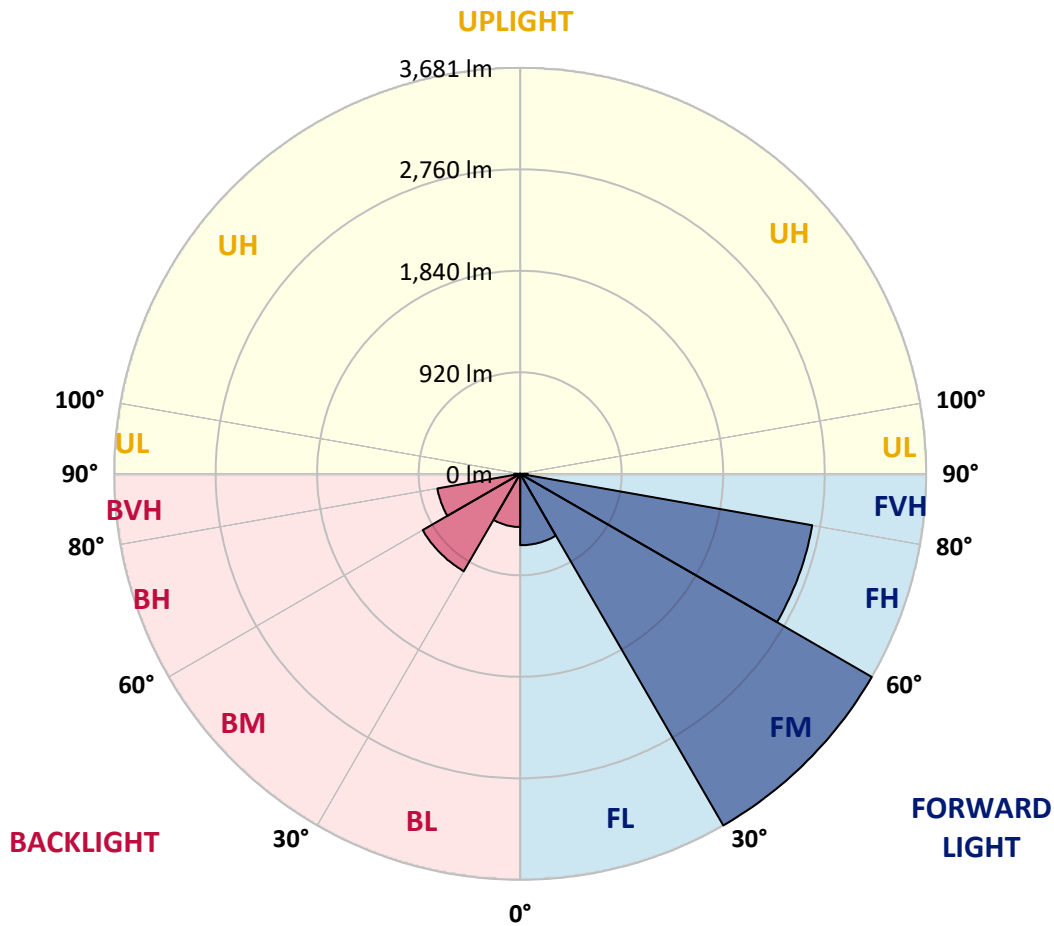
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.6	6.9			
FM (30°-60°)	3680.6	39.1			
FH (60°-80°)	2688.6	28.6			G2/5000
FVH (80°-90°)	68.8	0.7			G1/100
BL (0°-30°)	482.3	5.1	B1/500		
BM (30°-60°)	1020.0	10.8	B2/2500		
BH (60°-80°)	761.9	8.1	B2/1000		G2/1000
BVH (80°-90°)	54.1	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°	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7
2.5°	1411.7	1419.7	1417.2	1414.7	1414.7	1411.2	1410.7	1405.7	1401.7	1395.2
5°	1429.6	1438.1	1437.1	1439.1	1445.6	1447.1	1448.6	1445.6	1437.6	1429.6
7.5°	1413.7	1423.2	1426.1	1438.1	1458.1	1476.0	1489.5	1495.0	1487.5	1476.0
10°	1359.8	1370.3	1380.7	1409.2	1444.6	1487.0	1523.0	1544.4	1542.9	1531.9
12.5°	1250.5	1261.5	1283.9	1339.3	1404.2	1479.0	1545.9	1590.8	1606.3	1598.3
15°	1163.2	1172.7	1189.6	1246.5	1330.8	1444.6	1554.4	1641.7	1681.1	1676.6
17.5°	1160.7	1164.7	1175.2	1202.1	1267.0	1390.7	1545.4	1691.6	1767.0	1766.5
20°	1204.6	1206.1	1212.1	1217.6	1254.5	1349.8	1522.5	1733.0	1863.3	1863.3
22.5°	1265.5	1264.5	1270.5	1265.5	1283.4	1346.3	1508.0	1769.5	1970.6	1978.5
25°	1356.8	1351.8	1350.3	1338.8	1342.3	1378.7	1524.0	1810.9	2097.8	2114.3
27.5°	1478.5	1470.6	1465.1	1438.6	1429.6	1445.6	1572.9	1860.8	2239.5	2268.0
30°	1637.2	1622.8	1614.8	1568.9	1536.4	1538.9	1646.7	1927.1	2387.7	2433.6
32.5°	1853.8	1831.3	1809.9	1734.5	1675.2	1655.7	1742.0	2019.0	2548.4	2621.8
35°	2096.3	2078.3	2055.4	1939.1	1847.8	1802.9	1870.8	2147.2	2736.5	2852.8
37.5°	2329.8	2314.4	2325.4	2168.7	2050.9	1985.5	2039.4	2319.4	2968.6	3140.2
40°	2571.4	2559.4	2560.9	2411.2	2274.0	2200.6	2244.0	2535.4	3234.5	3482.0
42.5°	2833.8	2824.9	2794.9	2662.2	2508.0	2439.6	2479.5	2784.9	3520.0	3871.3
45°	3127.7	3122.3	3094.3	2942.1	2765.5	2688.6	2742.5	3060.4	3806.9	4237.5
47.5°	3381.7	3386.2	3382.7	3254.5	3071.4	2958.6	3023.0	3347.8	4073.9	4581.8
50°	3504.0	3527.4	3561.9	3522.0	3408.2	3293.4	3305.9	3625.3	4328.3	4904.7
52.5°	3440.1	3484.5	3578.3	3642.2	3686.1	3662.2	3628.7	3900.7	4567.9	5196.1
55°	3202.1	3264.5	3420.2	3574.4	3798.4	3972.6	4016.5	4206.1	4801.4	5452.6
57.5°	2768.5	2869.8	3009.5	3321.4	3698.6	4122.8	4468.6	4629.7	5048.9	5726.6
60°	2025.0	2160.7	2334.3	2798.4	3349.3	4042.4	4853.3	5280.4	5400.7	6081.3
62.5°	1295.9	1379.7	1539.4	1976.5	2609.8	3630.7	4971.1	6093.8	5997.0	6663.2
65°	887.2	941.1	1087.3	1332.8	1687.1	2702.6	4655.7	6703.6	6944.1	7585.3
67.5°	644.7	685.6	810.4	1025.5	1099.3	1599.3	3612.8	6675.7	7864.8	8535.4
70°	470.1	499.0	603.8	810.4	845.8	889.7	2188.6	5674.7	7844.8	8787.9
72.5°	348.3	368.3	438.6	628.7	684.6	600.8	1083.3	4124.3	6741.0	7948.6
75°	252.0	267.0	318.9	481.0	547.9	457.6	540.4	2410.2	4702.1	5591.3
77.5°	192.6	204.1	238.0	352.3	438.6	343.3	335.3	1108.8	2229.5	2240.5
80°	154.7	162.2	180.6	248.0	336.3	257.0	218.6	447.6	704.6	596.3
82.5°	113.8	126.2	152.7	174.2	240.5	177.1	133.2	226.0	268.0	230.5
85°	64.9	73.4	92.3	124.8	153.7	108.3	76.3	100.3	124.8	102.3
87.5°	23.0	29.9	32.4	48.9	66.9	44.9	29.4	28.9	40.9	30.4
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°
1378.7	0°	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7	1378.7
1393.7	2.5°	1388.7	1386.2	1376.2	1362.8	1348.8	1335.3	1330.8	1321.4	1314.9	1311.4
1426.1	5°	1416.7	1408.7	1385.2	1355.3	1323.9	1289.9	1266.0	1244.0	1228.0	1213.1
1470.6	7.5°	1456.6	1442.6	1402.2	1349.8	1293.9	1237.5	1195.6	1163.7	1142.2	1128.2
1522.5	10°	1503.0	1481.5	1419.7	1341.3	1255.0	1174.2	1124.8	1097.3	1083.8	1076.3
1581.8	12.5°	1556.4	1525.9	1437.6	1321.9	1195.6	1103.3	1069.4	1061.4	1061.9	1062.4
1656.7	15°	1622.3	1579.8	1452.1	1279.4	1118.3	1048.9	1042.9	1055.9	1069.4	1075.8
1741.5	17.5°	1696.6	1636.7	1454.6	1209.6	1042.4	1014.0	1032.9	1060.9	1081.3	1090.3
1836.3	20°	1776.4	1694.6	1436.6	1110.8	980.0	985.5	1019.5	1055.4	1077.8	1089.3
1944.6	22.5°	1867.8	1756.5	1393.7	1007.0	929.1	954.6	994.5	1029.4	1052.9	1064.4
2071.9	25°	1972.1	1825.9	1326.3	919.7	885.2	919.7	959.6	988.5	1007.5	1018.0
2214.1	27.5°	2087.8	1898.2	1236.5	850.3	846.8	883.7	916.7	939.1	949.1	957.1
2365.3	30°	2204.1	1964.1	1127.7	797.9	813.4	848.3	871.8	881.7	884.7	886.2
2533.9	32.5°	2329.8	2021.0	1013.5	754.5	781.4	813.9	827.8	832.3	818.4	808.9
2738.5	35°	2482.0	2081.8	901.7	720.1	750.0	777.9	782.4	778.4	762.0	742.5
2995.0	37.5°	2670.2	2157.7	812.4	695.6	720.6	739.0	733.5	732.5	734.0	711.1
3303.4	40°	2900.7	2256.5	747.0	676.6	696.6	700.6	685.1	693.6	701.1	666.2
3641.7	42.5°	3156.7	2375.8	705.6	663.7	676.6	667.2	643.2	652.7	651.7	605.8
3981.5	45°	3417.7	2505.5	691.1	654.2	658.2	639.2	612.8	615.3	594.3	552.9
4307.4	47.5°	3677.1	2644.7	700.1	646.2	635.2	613.8	593.3	582.3	551.4	520.5
4619.8	50°	3931.6	2790.9	733.0	630.2	603.8	591.3	576.3	556.9	524.0	497.5
4915.2	52.5°	4167.7	2938.1	770.0	603.8	564.4	571.9	562.4	539.9	507.5	480.5
5194.6	55°	4391.2	3085.3	784.4	567.4	527.4	554.9	549.4	508.0	469.1	447.1
5487.0	57.5°	4634.7	3262.5	768.5	521.0	497.5	535.4	514.5	468.6	446.1	429.6
5867.8	60°	4972.1	3540.4	734.0	463.6	469.1	506.5	470.6	451.6	427.1	408.7
6438.6	62.5°	5532.4	4058.9	678.6	406.7	435.6	463.6	449.6	430.6	405.7	387.7
7414.7	65°	6360.8	4779.4	574.4	362.3	398.2	421.7	427.1	408.2	382.2	363.3
8270.0	67.5°	7059.4	5231.5	434.6	325.3	359.8	387.7	403.2	384.7	357.3	338.8
8470.1	70°	7021.0	4903.2	331.8	288.9	325.8	354.3	374.3	359.8	330.3	312.9
7693.6	72.5°	6236.0	4101.8	268.5	252.0	291.4	319.4	343.3	332.3	302.4	285.4
5636.2	75°	4581.3	2911.7	214.6	214.6	248.5	282.9	309.4	302.4	275.0	263.0
2366.3	77.5°	1931.1	1221.6	168.2	178.1	206.6	243.0	275.9	278.4	254.5	269.5
625.7	80°	513.5	336.8	128.2	140.2	162.2	200.6	240.0	239.0	213.1	199.1
232.5	82.5°	195.6	132.7	91.3	98.8	117.3	153.7	190.1	196.1	170.2	147.2
91.3	85°	75.3	56.9	56.4	59.4	68.4	101.8	143.7	148.7	128.2	108.8
25.4	87.5°	19.5	17.0	21.0	20.0	31.4	54.4	82.3	85.3	78.3	45.4
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>
1378.7
1315.4
1219.1
1131.2
1078.3
1063.4
1075.4
1092.3
1092.3
1067.4
1021.0
960.1
889.7
811.9
743.5
712.6
667.2
605.3
554.4
520.5
495.5
481.0
445.1
428.1
407.7
387.7
364.3
339.3
314.4
285.4
259.5
244.5
185.1
147.2
112.3
64.9
0.0

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