

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: P945636

Luminaire Tested: **GALN-SB1C-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945636
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-SB1C-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7746 lumens
Efficiency: N/A
Efficacy: 142.4 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

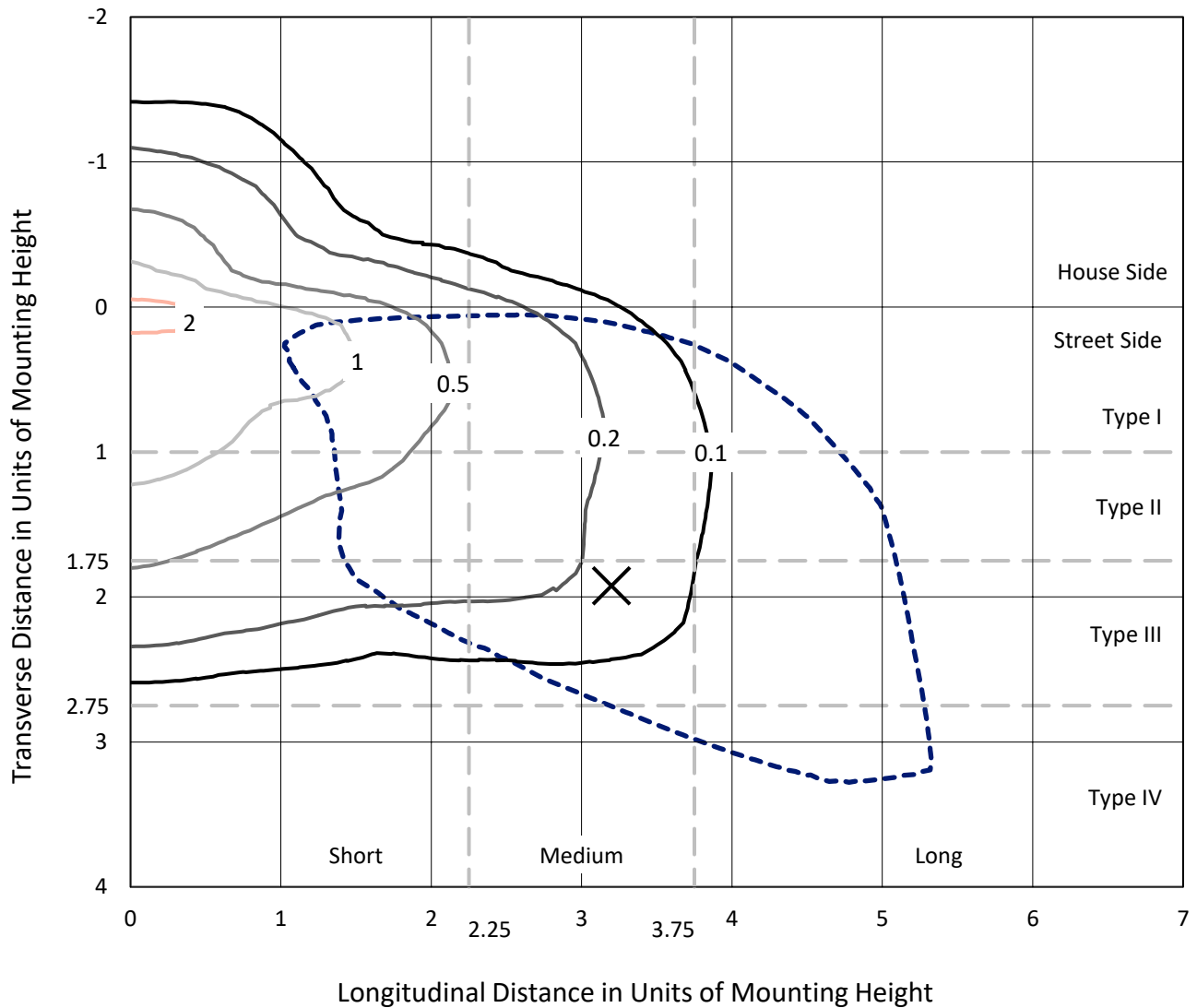
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

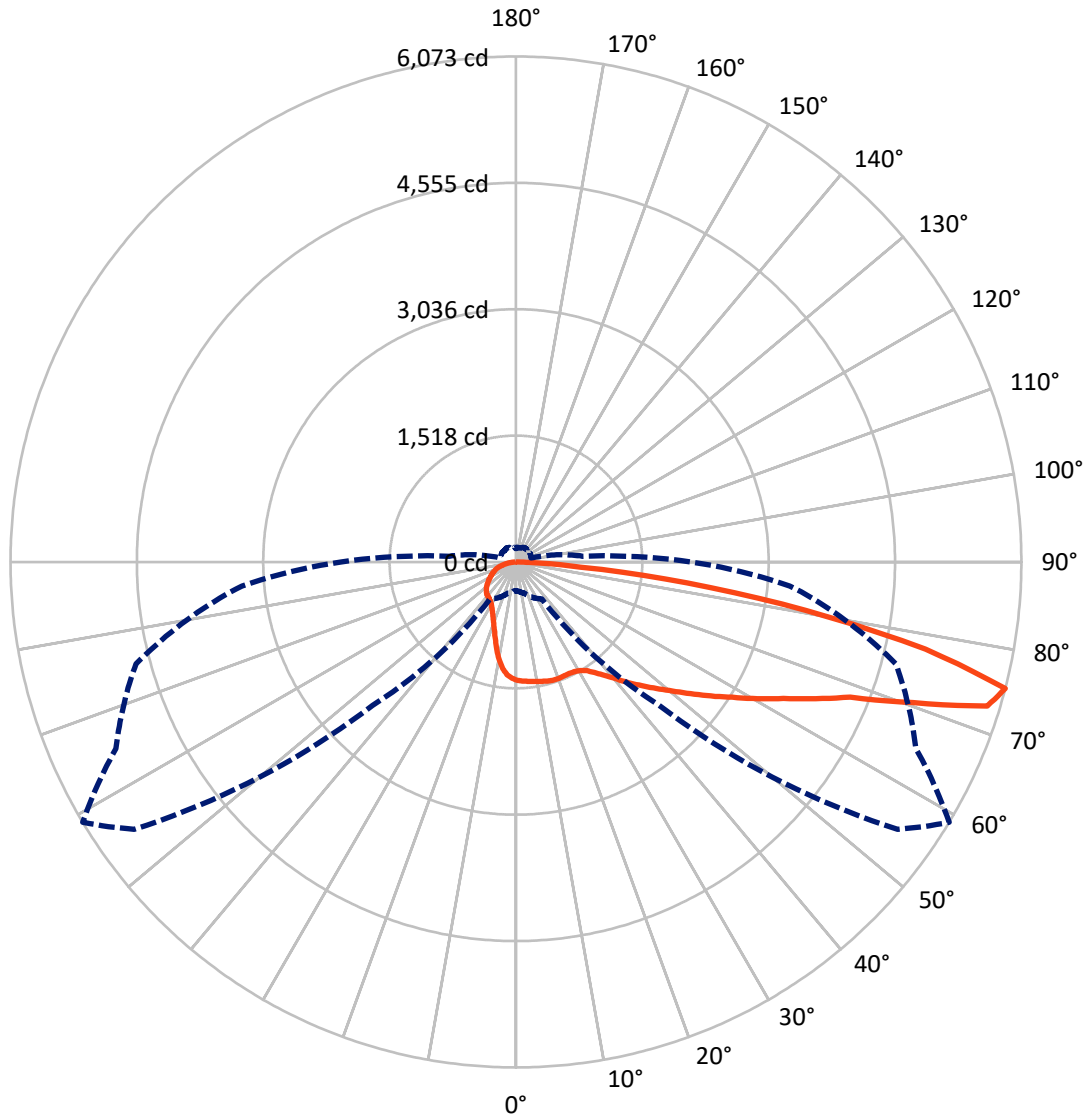
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1452.8	0.0	1452.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6293.2	0.0	6293.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	7746.0	0.0	7746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.6
10°-20°	325.9	4.2
20°-30°	495.0	6.4
30°-40°	735.7	9.5
40°-50°	1094.2	14.1
50°-60°	1485.2	19.2
60°-70°	1813.2	23.4
70°-80°	1423.0	18.4
80°-90°	246.5	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°	7746.0	100.0
0°-180°	7746.0	100.0

Coefficient of Utilization



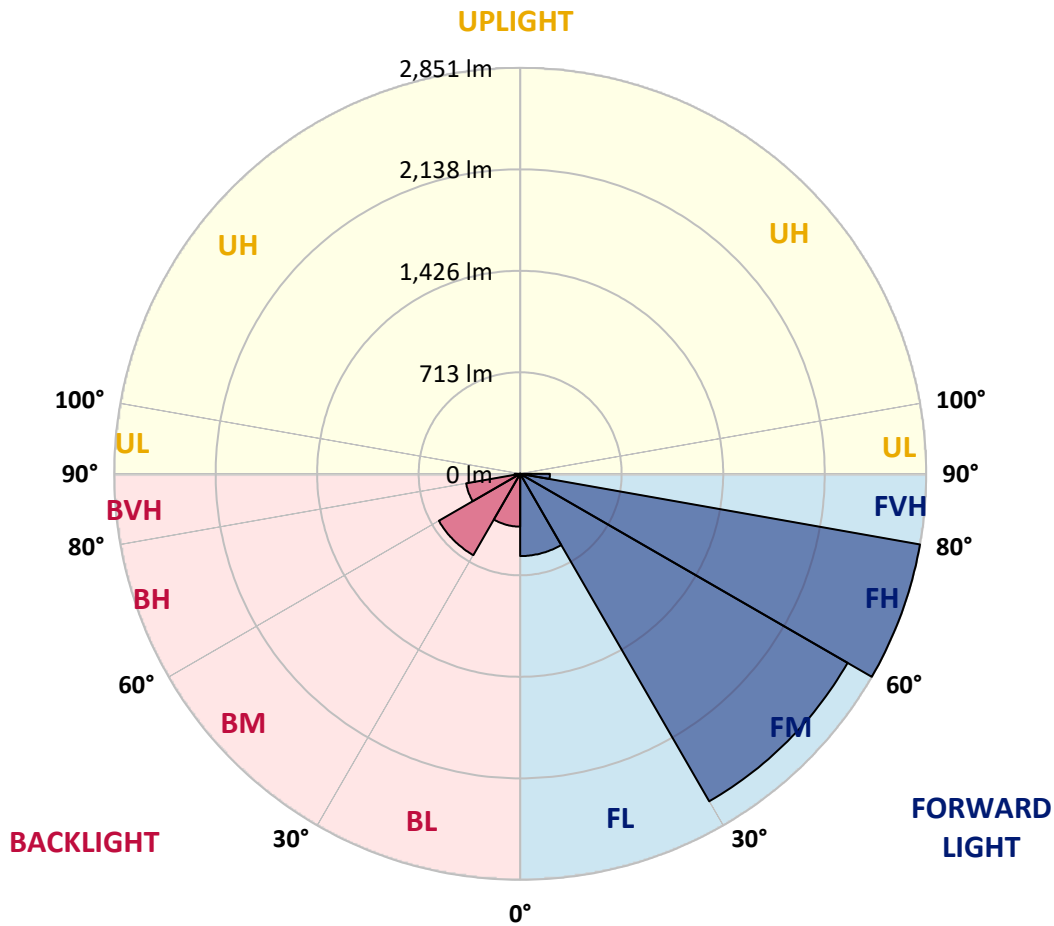
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.5	7.5			
FM (30°-60°)	2655.7	34.3			
FH (60°-80°)	2851.2	36.8			G2/5000
FVH (80°-90°)	208.8	2.7			G2/225
BL (0°-30°)	370.7	4.8	B1/500		
BM (30°-60°)	659.4	8.5	B1/1000		
BH (60°-80°)	384.9	5.0	B1/500		G1/500
BVH (80°-90°)	37.7	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°	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8
2.5°	1433.8	1428.8	1433.8	1431.8	1430.9	1429.3	1429.7	1432.6	1430.9	1433.0
5°	1424.3	1421.3	1426.3	1425.1	1430.5	1431.3	1436.8	1440.1	1442.2	1442.6
7.5°	1408.4	1405.5	1412.6	1418.4	1430.1	1433.4	1444.7	1450.1	1453.0	1458.0
10°	1350.5	1349.3	1366.8	1388.8	1416.3	1433.4	1450.5	1459.7	1464.3	1477.6
12.5°	1248.0	1249.7	1272.6	1315.1	1370.1	1425.1	1457.2	1470.5	1477.6	1494.3
15°	1150.1	1149.7	1174.7	1220.1	1297.2	1388.4	1460.5	1483.4	1495.5	1520.1
17.5°	1093.4	1091.7	1109.2	1143.8	1215.5	1332.2	1452.2	1490.5	1516.4	1547.2
20°	1083.0	1079.7	1088.8	1105.9	1156.7	1270.5	1430.5	1490.5	1533.0	1573.0
22.5°	1120.9	1115.5	1111.7	1109.7	1132.2	1219.7	1405.9	1485.5	1557.6	1610.1
25°	1197.2	1188.8	1169.7	1150.9	1144.2	1196.7	1384.3	1484.3	1594.3	1660.1
27.5°	1320.5	1310.1	1271.3	1226.3	1185.9	1208.4	1374.7	1491.8	1634.7	1713.0
30°	1473.4	1462.2	1413.4	1344.3	1271.8	1251.7	1386.8	1513.9	1686.4	1783.5
32.5°	1610.5	1598.0	1556.4	1485.9	1388.0	1326.8	1425.1	1555.9	1767.6	1881.4
35°	1732.2	1717.6	1680.1	1615.1	1530.5	1432.2	1494.3	1630.5	1883.0	2040.6
37.5°	1851.4	1834.3	1793.5	1724.7	1665.5	1572.6	1589.7	1726.4	2036.4	2233.9
40°	1984.7	1960.1	1910.5	1842.6	1785.1	1737.2	1715.1	1843.9	2192.2	2449.7
42.5°	2113.9	2090.6	2031.4	1973.5	1901.4	1887.6	1860.5	1981.4	2362.7	2686.8
45°	2253.1	2225.1	2153.5	2080.1	2034.7	1987.6	2001.4	2118.9	2529.8	2928.5
47.5°	2383.5	2352.2	2267.7	2186.0	2161.0	2071.8	2130.6	2270.2	2703.5	3173.5
50°	2453.9	2423.1	2352.7	2278.9	2259.3	2175.6	2270.6	2436.4	2885.6	3417.7
52.5°	2512.7	2479.3	2387.2	2346.4	2340.6	2288.5	2443.1	2626.4	3067.7	3633.6
55°	2575.2	2538.1	2420.6	2383.9	2410.6	2415.2	2647.7	2841.9	3260.2	3844.0
57.5°	2647.3	2600.2	2452.7	2415.6	2478.9	2563.5	2882.7	3065.2	3449.4	4039.0
60°	2715.2	2667.7	2514.3	2466.0	2552.7	2735.6	3152.3	3335.6	3663.6	4212.8
62.5°	2728.5	2689.3	2563.5	2563.1	2652.7	2936.4	3471.5	3608.6	3850.7	4384.5
65°	2497.7	2473.1	2398.5	2559.3	2796.0	3225.6	3826.9	3957.8	4088.6	4534.5
67.5°	1901.0	1904.3	1898.9	2209.3	2680.2	3641.1	4341.5	4331.5	4382.4	4702.8
70°	869.2	888.8	1016.3	1525.1	2147.2	3689.0	5192.4	5062.8	4751.1	4920.7
72.5°	469.6	484.6	536.7	738.8	1290.9	3279.8	5828.3	5920.4	5241.6	5067.4
75°	344.6	352.9	389.2	469.6	542.1	2437.7	5600.4	6072.9	5302.9	4725.3
77.5°	257.9	261.7	291.3	372.1	277.5	1285.1	4474.9	5029.5	4539.5	3882.3
80°	187.1	191.3	213.3	279.2	194.6	470.0	3072.7	3530.2	3109.0	2474.7
82.5°	129.2	130.8	140.4	190.0	135.8	182.5	1743.4	2070.1	1735.5	868.4
85°	77.9	80.0	84.2	110.8	77.1	86.7	752.5	778.4	518.8	207.5
87.5°	32.1	34.2	37.5	46.7	30.4	24.2	124.2	155.8	97.1	60.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945636
 CATALOG NUMBER: GALN-SB1C-740-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1421.8	0°	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8
1425.9	2.5°	1423.8	1420.9	1413.0	1402.2	1392.2	1379.7	1374.3	1369.7	1365.5	1357.6
1437.2	5°	1432.6	1424.7	1403.4	1375.9	1344.7	1310.5	1277.2	1254.2	1234.7	1220.1
1450.1	7.5°	1445.9	1430.9	1392.2	1335.9	1264.3	1190.9	1124.7	1077.6	1042.2	1029.2
1468.4	10°	1459.7	1441.8	1374.3	1275.1	1151.3	1038.4	950.5	902.1	873.8	864.6
1490.1	12.5°	1475.9	1449.7	1346.3	1190.5	1025.1	901.3	824.6	796.3	781.7	776.7
1516.8	15°	1499.7	1456.3	1304.3	1084.7	904.6	801.3	751.7	732.1	724.6	724.2
1544.3	17.5°	1517.6	1457.6	1238.8	971.3	812.1	740.9	700.0	692.5	697.5	705.0
1571.4	20°	1537.6	1446.3	1153.0	868.0	747.1	688.0	670.9	675.9	688.0	698.8
1607.2	22.5°	1551.8	1425.9	1049.2	787.6	690.9	657.5	656.7	667.1	673.8	679.2
1649.3	25°	1564.3	1391.3	939.2	720.0	644.6	639.2	648.4	645.0	640.5	645.0
1691.4	27.5°	1573.4	1336.8	840.9	660.9	612.1	626.7	621.3	613.8	613.4	615.9
1740.9	30°	1570.5	1263.8	760.1	604.6	589.2	603.4	590.5	589.2	588.0	589.2
1815.5	32.5°	1570.5	1180.9	698.0	565.9	574.6	569.2	568.0	565.0	560.0	559.6
1916.8	35°	1579.3	1098.0	644.6	545.0	562.5	549.6	550.5	543.4	533.0	528.0
2051.0	37.5°	1597.2	1031.3	591.7	535.0	541.3	540.9	537.5	525.5	507.1	491.3
2218.5	40°	1640.5	1011.7	555.5	530.5	531.3	536.3	527.5	504.2	462.5	436.7
2388.5	42.5°	1708.4	1044.7	547.5	519.2	524.6	529.6	512.5	458.4	428.8	413.4
2566.8	45°	1794.7	1102.2	564.6	503.0	508.8	517.5	466.7	440.9	427.5	427.9
2743.5	47.5°	1903.9	1162.6	596.3	488.8	485.9	490.9	436.3	420.4	402.1	406.7
2913.1	50°	2030.1	1223.8	626.3	469.6	460.4	444.2	416.7	401.7	378.4	367.5
3076.9	52.5°	2166.8	1283.0	638.4	446.3	432.9	414.2	403.4	385.0	356.7	338.8
3231.5	55°	2296.4	1336.8	625.0	418.4	405.4	390.9	389.2	377.9	347.5	322.5
3369.0	57.5°	2418.9	1381.8	591.7	390.0	377.5	368.8	380.0	374.6	336.3	304.2
3499.0	60°	2522.7	1412.6	543.4	361.3	352.5	347.9	365.0	363.4	320.4	284.6
3615.7	62.5°	2605.2	1424.7	490.0	333.8	331.7	323.4	344.2	344.2	300.4	265.4
3718.2	65°	2669.8	1413.0	435.9	306.7	310.9	298.4	318.8	316.3	279.2	248.3
3836.1	67.5°	2726.8	1374.7	375.9	280.0	289.6	273.8	292.1	286.3	255.9	231.3
3938.2	70°	2752.3	1285.5	307.5	253.4	265.0	249.6	265.4	254.6	229.6	212.9
3826.1	72.5°	2548.1	1068.4	242.1	225.4	235.4	222.9	236.7	224.2	201.3	193.8
3304.0	75°	2108.1	801.7	186.3	195.0	202.5	192.9	202.1	192.9	172.1	177.5
2440.6	77.5°	1530.9	541.3	142.5	162.9	166.3	161.3	169.2	158.8	140.0	138.8
1216.3	80°	761.3	317.1	111.7	128.8	127.5	124.2	133.3	128.3	112.5	119.2
328.4	82.5°	220.4	135.8	81.3	90.4	87.9	88.8	95.4	97.9	146.7	145.4
102.1	85°	69.2	53.3	48.8	50.4	47.9	49.2	56.3	111.7	103.3	60.4
31.7	87.5°	17.9	18.3	12.1	12.9	13.3	15.8	17.9	67.9	32.5	21.3
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>
1421.8
1353.8
1208.0
1006.7
850.5
778.0
725.9
708.0
702.5
682.1
648.0
620.0
593.8
565.0
533.0
496.7
440.0
413.4
430.0
418.4
370.4
338.4
322.5
302.5
283.4
264.2
246.7
229.6
209.6
187.5
<i>162.1</i>
132.5
117.9
148.8
65.4
22.5
0.0

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