

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: P946761

Luminaire Tested: **GALN-SB2B-760-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-760-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11891 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

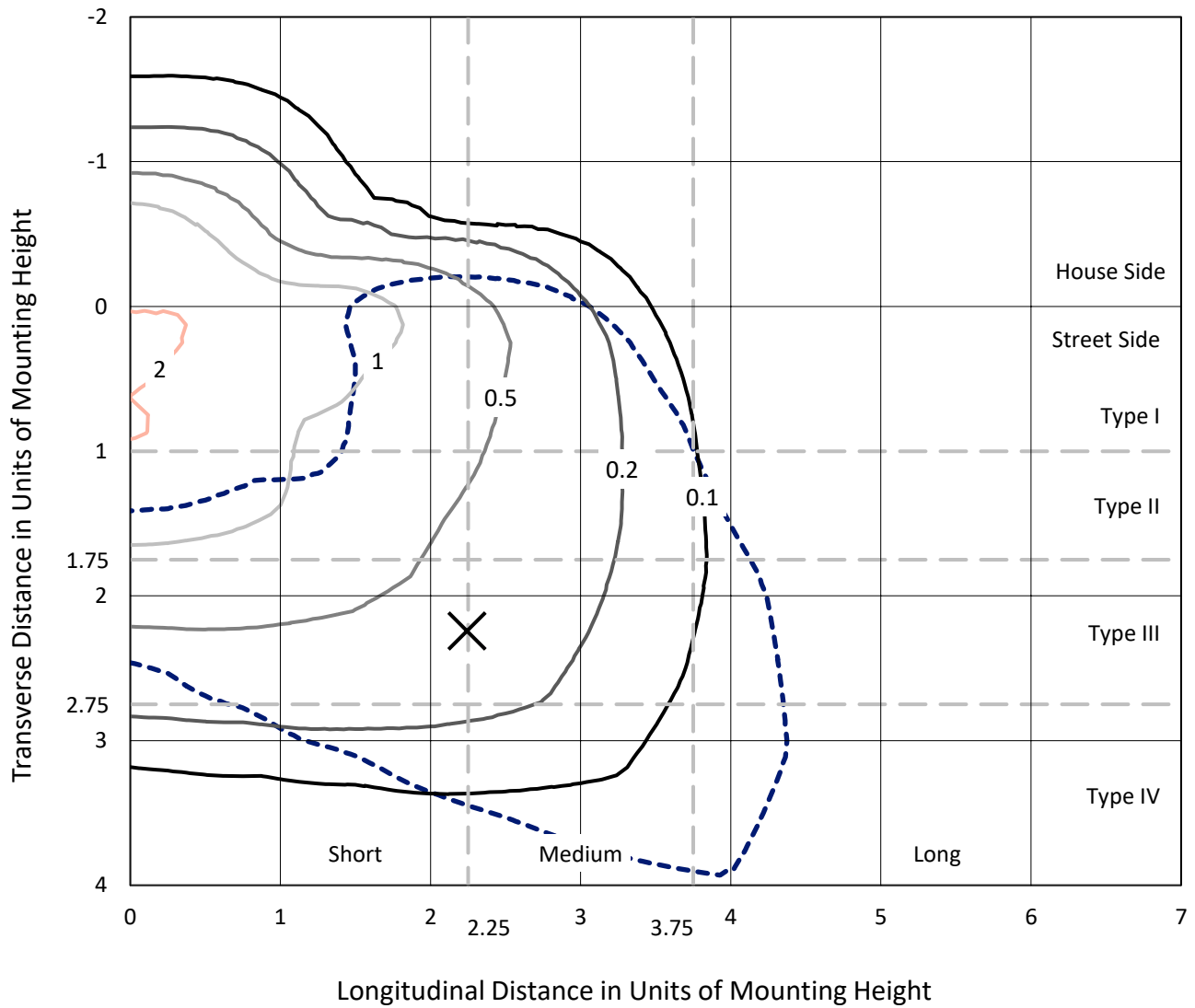
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

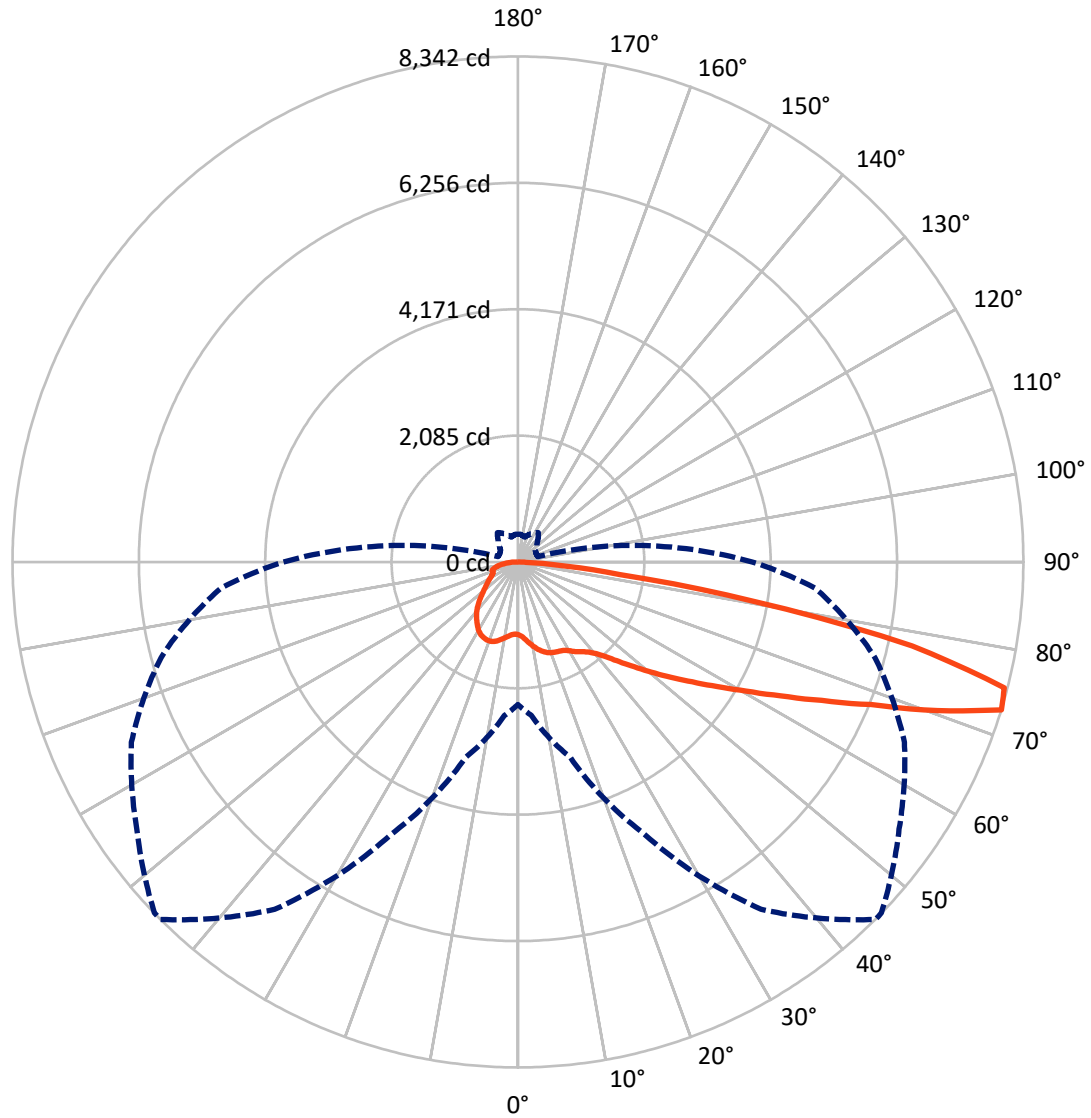
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2688.1	0.0	2688.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9202.9	0.0	9202.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	11891.0	0.0	11891.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	1.0
10°-20°	407.1	3.4
20°-30°	708.1	6.0
30°-40°	1015.1	8.5
40°-50°	1429.4	12.0
50°-60°	2189.4	18.4
60°-70°	3171.6	26.7
70°-80°	2532.7	21.3
80°-90°	315.4	2.7
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°	11891.0	100.0
0°-180°	11891.0	100.0



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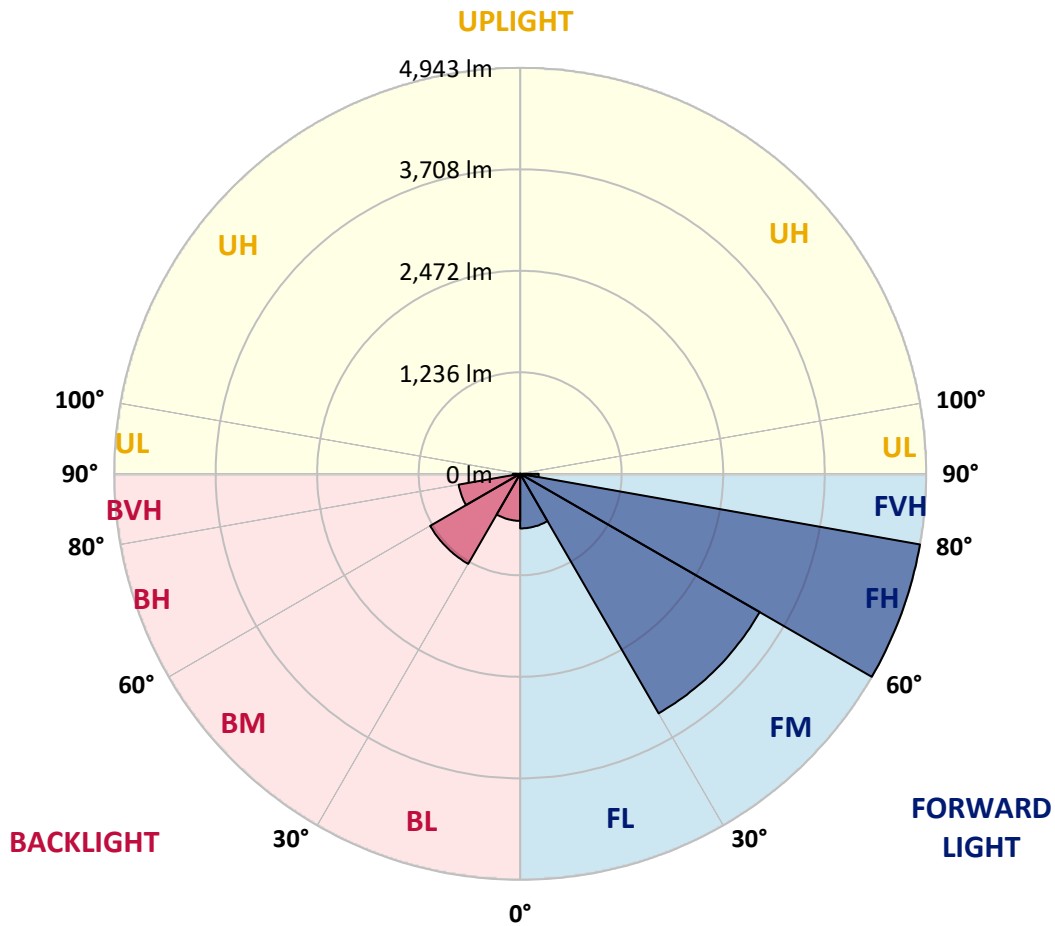
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.0	5.6			
FM (30°-60°)	3368.1	28.3			
FH (60°-80°)	4943.4	41.6			G2/5000
FVH (80°-90°)	226.3	1.9			G3/500
BL (0°-30°)	572.3	4.8	B2/1000		
BM (30°-60°)	1265.7	10.6	B2/2500		
BH (60°-80°)	760.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	89.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1246.6	1254.7	1247.2	1240.3	1237.2	1229.0	1228.4	1223.4	1220.2	1211.5
5°	1333.6	1344.3	1331.7	1318.0	1305.4	1285.4	1282.9	1268.5	1252.2	1233.4
7.5°	1432.0	1441.4	1427.0	1406.3	1384.4	1351.2	1350.5	1324.2	1298.5	1266.6
10°	1517.8	1530.3	1510.9	1482.7	1455.1	1417.6	1413.2	1383.1	1350.5	1309.2
12.5°	1593.6	1602.4	1583.6	1549.1	1517.2	1479.6	1473.9	1440.7	1404.4	1357.4
15°	1653.7	1665.0	1639.9	1603.0	1569.2	1532.2	1527.2	1497.1	1460.8	1411.3
17.5°	1693.2	1702.6	1676.9	1635.6	1603.0	1572.3	1568.5	1543.5	1511.5	1461.4
20°	1708.2	1718.2	1691.3	1649.3	1619.3	1595.5	1593.6	1575.4	1553.5	1507.8
22.5°	1723.2	1732.6	1697.6	1653.7	1627.4	1612.4	1611.7	1599.8	1591.1	1553.5
25°	1784.0	1786.5	1739.5	1676.3	1638.7	1625.5	1624.9	1624.3	1628.0	1598.6
27.5°	1836.6	1836.0	1795.9	1736.4	1678.1	1650.6	1650.0	1656.2	1668.1	1643.7
30°	1913.7	1906.8	1859.2	1797.2	1743.9	1701.3	1697.6	1691.9	1701.3	1681.9
32.5°	2077.2	2055.2	1978.2	1867.9	1798.4	1765.8	1760.8	1725.8	1729.5	1717.6
35°	2311.4	2282.6	2179.9	2002.0	1866.1	1819.7	1817.2	1772.7	1765.2	1754.6
37.5°	2590.2	2554.5	2434.8	2196.2	1982.6	1882.4	1878.6	1838.5	1807.8	1796.5
40°	2870.2	2825.1	2726.1	2433.0	2154.2	1987.0	1975.1	1914.3	1879.2	1860.4
42.5°	3142.1	3104.5	3019.9	2698.6	2365.9	2139.8	2113.5	2009.5	1983.2	1965.7
45°	3382.6	3348.8	3286.8	2982.3	2614.0	2347.8	2322.1	2152.3	2144.2	2144.2
47.5°	3578.0	3570.5	3504.8	3271.7	2906.5	2584.6	2540.1	2350.9	2372.8	2406.7
50°	3794.8	3774.1	3703.9	3556.7	3250.4	2855.8	2819.5	2594.6	2676.6	2769.3
52.5°	3994.0	4005.2	3926.9	3853.7	3638.8	3158.3	3094.5	2882.1	3059.4	3212.8
55°	4198.8	4199.4	4177.5	4167.5	4046.0	3492.8	3422.7	3227.9	3509.8	3700.2
57.5°	4391.1	4392.4	4424.9	4513.3	4518.3	3878.7	3799.2	3652.6	4010.3	4204.4
60°	4562.8	4571.5	4660.5	4867.2	4933.6	4321.0	4245.8	4154.3	4527.7	4723.1
62.5°	4620.4	4652.3	4850.3	5144.1	5343.9	4863.4	4789.5	4735.0	5071.4	5253.1
65°	4522.7	4596.0	4978.7	5372.7	5766.1	5508.0	5434.7	5375.2	5636.4	5807.4
67.5°	4282.7	4377.3	4971.2	5612.6	6278.5	6283.5	6215.2	6075.5	6242.2	6307.9
70°	3650.7	3792.3	4533.3	5702.2	6866.7	7344.0	7278.2	6918.7	6846.6	6528.4
72.5°	2352.2	2542.6	3338.1	4964.9	6997.6	8341.9	8338.1	7679.8	7037.7	6100.0
75°	858.2	974.7	1551.0	3116.4	5873.8	8291.1	8315.6	7549.5	6424.4	4711.8
77.5°	312.6	342.0	506.1	1197.7	3612.5	6652.4	6703.2	6035.4	4572.8	2364.7
80°	164.1	180.4	259.3	464.8	1547.9	3950.8	4030.3	3586.8	2149.2	712.2
82.5°	90.8	98.3	145.3	252.4	697.2	1689.4	1737.0	1416.9	756.1	301.9
85°	48.9	52.0	68.3	137.8	340.8	585.7	598.8	423.5	301.3	177.3
87.5°	14.4	17.5	22.6	43.8	133.4	131.5	134.7	83.9	119.0	89.6
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°
1199.6	0°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
1209.0	2.5°	1205.2	1203.3	1196.4	1193.3	1189.5	1188.9	1192.1	1192.7	1193.3	1193.9
1222.7	5°	1216.5	1210.2	1204.0	1200.2	1201.4	1202.1	1208.3	1212.7	1215.9	1218.4
1248.4	7.5°	1238.4	1233.4	1222.7	1222.1	1224.0	1229.6	1237.8	1247.8	1253.4	1257.8
1281.6	10°	1271.0	1261.6	1249.1	1250.9	1254.7	1262.8	1279.8	1287.9	1297.3	1305.4
1322.3	12.5°	1304.2	1296.0	1281.6	1282.9	1289.1	1303.6	1319.8	1329.9	1336.1	1342.4
1366.2	15°	1347.4	1333.0	1317.3	1317.3	1328.6	1344.3	1351.8	1359.9	1363.7	1370.6
1413.2	17.5°	1391.9	1373.1	1352.4	1351.2	1364.9	1372.5	1376.8	1378.1	1379.3	1386.9
1458.9	20°	1436.4	1415.7	1386.2	1383.7	1386.9	1385.6	1385.0	1383.7	1385.6	1395.0
1505.9	22.5°	1480.2	1456.4	1415.7	1404.4	1395.6	1383.7	1383.1	1382.5	1383.7	1393.1
1556.6	25°	1531.6	1502.8	1448.3	1414.4	1385.0	1368.7	1370.6	1371.2	1372.5	1380.0
1609.2	27.5°	1587.3	1555.4	1478.3	1411.3	1358.1	1346.8	1343.6	1345.5	1349.9	1361.8
1661.9	30°	1643.1	1605.5	1505.9	1398.8	1324.2	1308.6	1298.5	1302.9	1316.7	1328.6
1707.6	32.5°	1693.8	1656.2	1527.8	1371.2	1281.0	1256.6	1243.4	1249.1	1262.8	1267.2
1758.3	35°	1753.3	1710.7	1537.2	1327.4	1234.0	1196.4	1178.9	1170.8	1177.6	1173.3
1817.8	37.5°	1819.7	1775.2	1536.0	1269.7	1178.9	1135.7	1111.2	1080.6	1066.1	1051.1
1905.5	40°	1918.1	1854.2	1520.9	1200.2	1110.6	1071.2	1027.3	975.3	942.7	913.3
2047.1	42.5°	2052.1	1963.8	1493.4	1123.8	1033.6	996.6	937.1	876.3	825.0	776.1
2262.0	45°	2251.9	2107.2	1458.9	1042.3	950.3	913.9	849.4	781.1	722.9	660.2
2567.0	47.5°	2540.1	2300.2	1426.3	949.6	862.6	829.4	771.1	707.8	638.9	578.2
3008.0	50°	2936.0	2577.0	1396.3	859.4	776.1	751.1	704.7	640.2	570.7	521.8
3524.8	52.5°	3439.6	2953.5	1383.7	772.4	695.3	685.9	649.0	588.8	523.1	481.7
4127.4	55°	4017.8	3403.9	1383.7	689.0	624.5	627.7	602.0	546.2	489.2	452.3
4748.8	57.5°	4607.9	3859.9	1358.7	612.0	564.4	577.5	561.3	512.4	461.0	422.8
5402.1	60°	5151.6	4242.0	1257.2	541.8	511.1	531.8	521.2	479.2	416.6	384.6
5948.4	62.5°	5569.4	4457.5	1061.8	486.1	467.3	491.1	485.5	435.4	408.4	395.3
6396.9	65°	5778.6	4422.4	811.8	436.6	430.3	467.3	455.4	453.5	432.2	417.2
6542.8	67.5°	5650.2	4120.5	588.8	400.3	409.0	445.4	491.1	498.6	459.2	429.7
6131.9	70°	5087.1	3574.3	438.5	365.8	382.1	446.0	560.0	521.8	450.4	415.9
4917.9	72.5°	3869.9	2665.4	340.1	329.5	347.0	449.1	590.7	511.1	425.3	459.8
3063.8	75°	2213.1	1463.3	273.1	285.0	303.2	419.7	575.0	483.6	405.9	422.2
1214.0	77.5°	843.8	562.5	225.5	241.2	243.7	366.4	550.0	481.7	386.5	377.1
363.9	80°	292.5	219.9	186.7	191.7	188.5	325.7	527.4	419.1	316.3	283.1
150.3	82.5°	119.6	109.6	147.8	141.6	134.1	253.1	426.0	342.6	258.7	228.6
72.7	85°	52.0	69.5	97.7	85.8	77.7	175.4	341.4	290.0	218.6	188.5
23.8	87.5°	10.6	26.3	41.3	38.8	40.1	117.1	242.4	206.1	154.7	115.9
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>
1199.6
1196.4
1219.6
1259.1
1303.6
1344.9
1373.1
1389.4
1398.8
1399.4
1390.0
1373.7
1341.8
1282.9
1187.0
1060.5
915.2
771.7
652.7
571.3
518.7
478.6
448.5
416.6
379.6
390.9
412.2
424.7
410.3
456.0
422.2
343.9
273.7
226.1
187.9
90.8
0.0

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