

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: P948378

Luminaire Tested: **GALN-SB3B-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948378  
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-SB3B-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

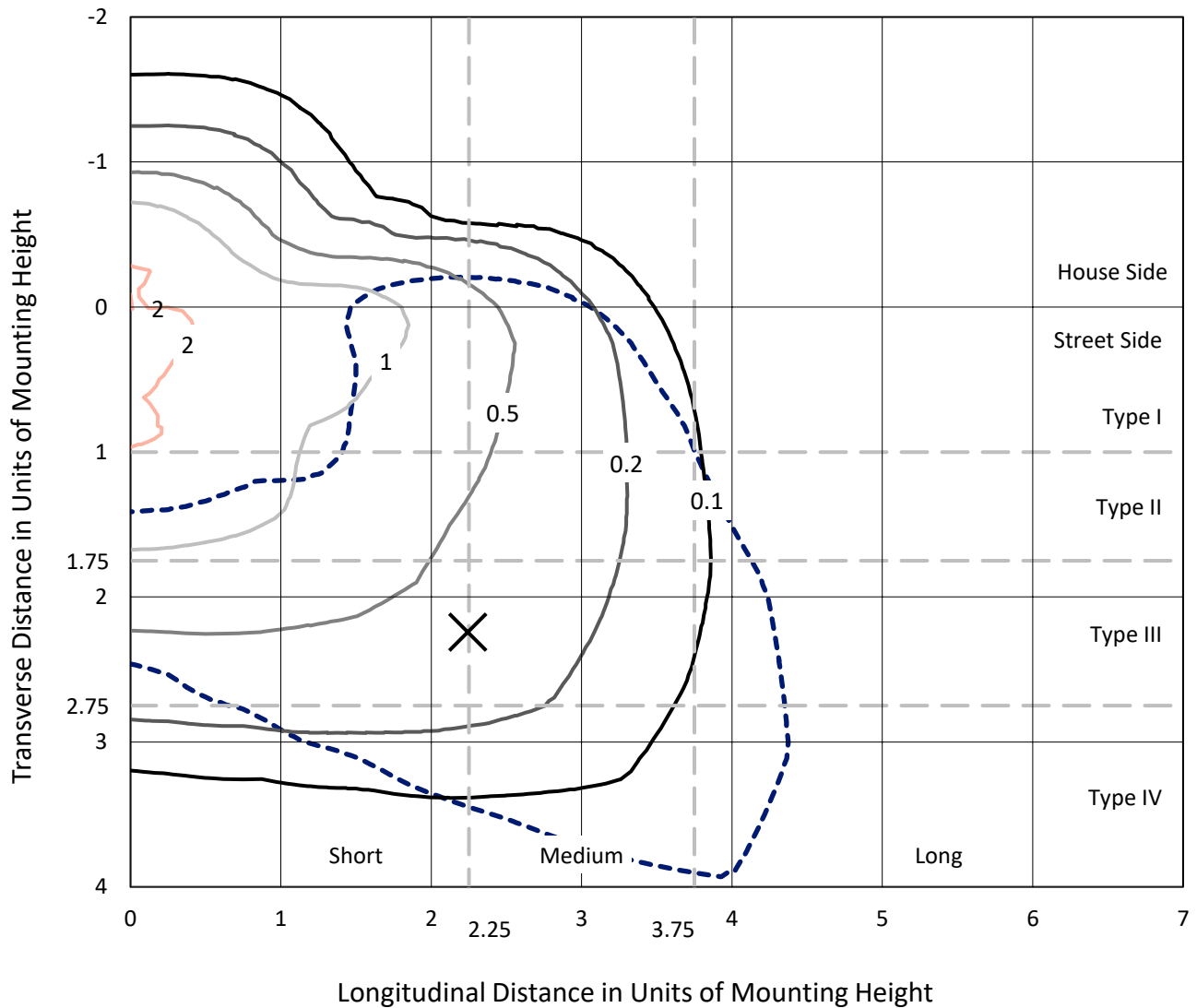
Lumens per Lamp: N/A  
Luminaire Lumens: 12219 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

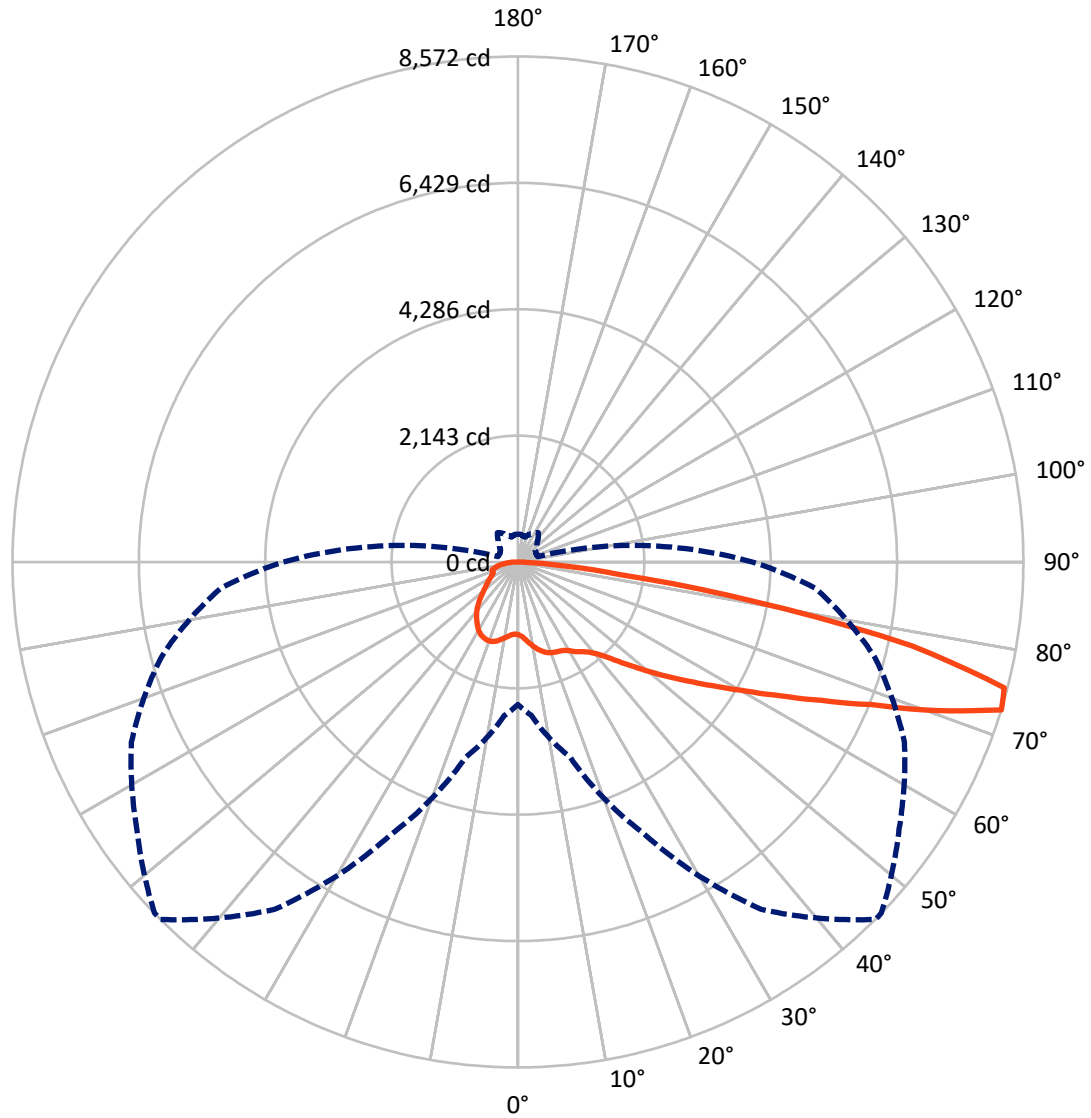
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2762.3	0.0	2762.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	9456.7	0.0	9456.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	12219.0	0.0	12219.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	1.0
10°-20°	418.3	3.4
20°-30°	727.7	6.0
30°-40°	1043.1	8.5
40°-50°	1468.8	12.0
50°-60°	2249.8	18.4
60°-70°	3259.1	26.7
70°-80°	2602.6	21.3
80°-90°	324.1	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°	12219.0	100.0
0°-180°	12219.0	100.0

**Coefficient of Utilization**



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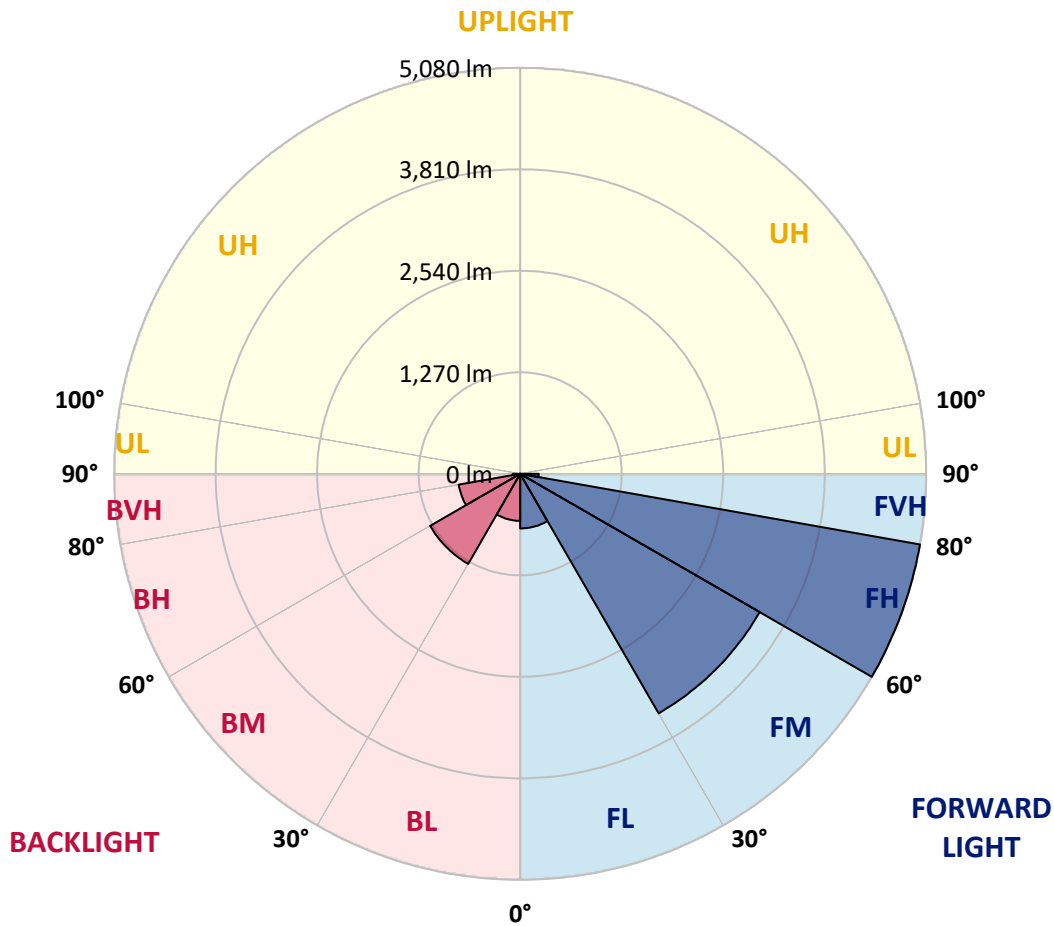
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.3	5.6			
FM (30°-60°)	3461.1	28.3			
FH (60°-80°)	5079.8	41.6			G3/7500
FVH (80°-90°)	232.5	1.9			G3/500
BL (0°-30°)	588.1	4.8	B2/1000		
BM (30°-60°)	1300.7	10.6	B2/2500		
BH (60°-80°)	781.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	91.6	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°	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7
2.5°	1280.9	1289.3	1281.6	1274.5	1271.3	1262.9	1262.3	1257.1	1253.9	1244.9
5°	1370.4	1381.4	1368.5	1354.3	1341.4	1320.8	1318.3	1303.5	1286.7	1267.4
7.5°	1471.5	1481.1	1466.3	1445.1	1422.5	1388.4	1387.8	1360.8	1334.4	1301.5
10°	1559.7	1572.5	1552.6	1523.6	1495.3	1456.7	1452.2	1421.3	1387.8	1345.3
12.5°	1637.5	1646.5	1627.2	1591.8	1559.0	1520.4	1514.6	1480.5	1443.1	1394.9
15°	1699.3	1710.9	1685.2	1647.2	1612.4	1574.5	1569.3	1538.4	1501.1	1450.2
17.5°	1739.9	1749.5	1723.1	1680.7	1647.2	1615.7	1611.8	1586.0	1553.2	1501.7
20°	1755.3	1765.6	1738.0	1694.8	1663.9	1639.5	1637.5	1618.9	1596.3	1549.4
22.5°	1770.8	1780.4	1744.4	1699.3	1672.3	1656.8	1656.2	1644.0	1635.0	1596.3
25°	1833.2	1835.8	1787.5	1722.5	1683.9	1670.4	1669.7	1669.1	1672.9	1642.7
27.5°	1887.3	1886.6	1845.4	1784.3	1724.4	1696.1	1695.5	1701.9	1714.1	1689.0
30°	1966.5	1959.4	1910.5	1846.7	1792.0	1748.3	1744.4	1738.6	1748.3	1728.3
32.5°	2134.5	2111.9	2032.8	1919.5	1848.0	1814.6	1809.4	1773.4	1777.2	1765.0
35°	2375.2	2345.6	2240.0	2057.2	1917.5	1869.9	1867.3	1821.6	1813.9	1803.0
37.5°	2661.6	2625.0	2502.0	2256.8	2037.3	1934.3	1930.4	1889.2	1857.7	1846.1
40°	2949.4	2903.0	2801.3	2500.1	2213.6	2041.8	2029.5	1967.1	1931.1	1911.7
42.5°	3228.7	3190.1	3103.2	2773.0	2431.2	2198.8	2171.8	2064.9	2037.9	2019.9
45°	3475.9	3441.1	3377.4	3064.6	2686.1	2412.5	2386.1	2211.7	2203.3	2203.3
47.5°	3676.7	3669.0	3601.4	3362.0	2986.7	2655.8	2610.1	2415.8	2438.3	2473.0
50°	3899.5	3878.2	3806.1	3654.9	3340.1	2934.6	2897.2	2666.1	2750.5	2845.7
52.5°	4104.1	4115.7	4035.3	3960.0	3739.2	3245.5	3179.8	2961.6	3143.8	3301.5
55°	4314.6	4315.3	4292.7	4282.4	4157.6	3589.2	3517.1	3316.9	3606.6	3802.3
57.5°	4512.2	4513.5	4547.0	4637.8	4642.9	3985.7	3904.0	3753.3	4120.9	4320.4
60°	4688.6	4697.6	4789.0	5001.4	5069.7	4440.1	4362.9	4268.9	4652.6	4853.4
62.5°	4747.8	4780.7	4984.1	5286.0	5491.3	4997.6	4921.6	4865.6	5211.3	5398.0
65°	4647.4	4722.7	5116.0	5520.9	5925.1	5659.9	5584.6	5523.5	5791.9	5967.6
67.5°	4400.9	4498.1	5108.3	5767.4	6451.7	6456.8	6386.7	6243.1	6414.3	6481.9
70°	3751.4	3896.9	4658.4	5859.5	7056.1	7546.6	7479.0	7109.5	7035.5	6708.5
72.5°	2417.0	2612.7	3430.2	5101.9	7190.6	8572.0	8568.1	7891.6	7231.8	6268.2
75°	881.9	1001.6	1593.8	3202.3	6035.8	8519.8	8544.9	7757.7	6601.6	4841.8
77.5°	321.2	351.5	520.1	1230.7	3712.1	6835.9	6888.1	6201.9	4698.9	2429.9
80°	168.6	185.4	266.5	477.6	1590.5	4059.7	4141.5	3685.7	2208.5	731.9
82.5°	93.3	101.1	149.3	259.4	716.4	1736.0	1784.9	1456.0	776.9	310.3
85°	50.2	53.4	70.2	141.6	350.2	601.8	615.4	435.1	309.6	182.2
87.5°	14.8	18.0	23.2	45.1	137.1	135.2	138.4	86.3	122.3	92.0
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°
1232.7	0°	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7
1242.3	2.5°	1238.5	1236.5	1229.4	1226.2	1222.4	1221.7	1224.9	1225.6	1226.2	1226.9
1256.5	5°	1250.0	1243.6	1237.2	1233.3	1234.6	1235.2	1241.7	1246.2	1249.4	1252.0
1282.9	7.5°	1272.6	1267.4	1256.5	1255.8	1257.8	1263.6	1271.9	1282.2	1288.0	1292.5
1317.0	10°	1306.0	1296.4	1283.5	1285.4	1289.3	1297.7	1315.1	1323.4	1333.1	1341.4
1358.8	12.5°	1340.2	1331.8	1317.0	1318.3	1324.7	1339.5	1356.2	1366.5	1373.0	1379.4
1403.9	15°	1384.6	1369.8	1353.7	1353.7	1365.3	1381.4	1389.1	1397.4	1401.3	1408.4
1452.2	17.5°	1430.3	1411.0	1389.7	1388.4	1402.6	1410.3	1414.8	1416.1	1417.4	1425.1
1499.1	20°	1476.0	1454.7	1424.5	1421.9	1425.1	1423.8	1423.2	1421.9	1423.8	1433.5
1547.4	22.5°	1521.0	1496.6	1454.7	1443.1	1434.1	1421.9	1421.3	1420.6	1421.9	1431.6
1599.6	25°	1573.8	1544.2	1488.2	1453.4	1423.2	1406.5	1408.4	1409.0	1410.3	1418.0
1653.6	27.5°	1631.1	1598.3	1519.1	1450.2	1395.5	1383.9	1380.7	1382.6	1387.1	1399.4
1707.7	30°	1688.4	1649.8	1547.4	1437.4	1360.8	1344.7	1334.4	1338.9	1353.0	1365.3
1754.7	32.5°	1740.5	1701.9	1570.0	1409.0	1316.3	1291.2	1277.7	1283.5	1297.7	1302.2
1806.8	35°	1801.7	1757.9	1579.6	1364.0	1268.1	1229.4	1211.4	1203.0	1210.1	1205.6
1868.0	37.5°	1869.9	1824.2	1578.3	1304.8	1211.4	1167.0	1141.9	1110.4	1095.6	1080.1
1958.1	40°	1971.0	1905.3	1562.9	1233.3	1141.3	1100.7	1055.6	1002.2	968.7	938.5
2103.6	42.5°	2108.7	2018.0	1534.5	1154.8	1062.1	1024.1	963.0	900.5	847.7	797.5
2324.4	45°	2314.1	2165.4	1499.1	1071.1	976.5	939.1	872.8	802.7	742.8	678.4
2637.8	47.5°	2610.1	2363.6	1465.7	975.8	886.4	852.2	792.4	727.4	656.6	594.1
3091.0	50°	3017.0	2648.1	1434.8	883.1	797.5	771.8	724.1	657.8	586.4	536.2
3622.0	52.5°	3534.5	3035.0	1421.9	793.7	714.5	704.8	666.9	605.1	537.5	495.0
4241.2	55°	4128.6	3497.8	1421.9	708.1	641.8	645.0	618.6	561.3	502.7	464.7
4879.8	57.5°	4735.0	3966.4	1396.2	628.9	580.0	593.5	576.7	526.5	473.8	434.5
5551.2	60°	5293.7	4359.0	1291.9	556.8	525.2	546.5	535.5	492.4	428.1	395.2
6112.4	62.5°	5723.0	4580.5	1091.0	499.5	480.2	504.7	498.9	447.4	419.7	406.2
6573.3	65°	5938.0	4544.4	834.2	448.6	442.2	480.2	468.0	466.0	444.1	428.7
6723.3	67.5°	5806.1	4234.2	605.1	411.3	420.3	457.7	504.7	512.4	471.8	441.6
6301.0	70°	5227.4	3672.9	450.6	375.9	392.6	458.3	575.5	536.2	462.8	427.4
5053.6	72.5°	3976.7	2738.9	349.5	338.6	356.6	461.5	607.0	525.2	437.1	472.5
3148.3	75°	2274.1	1503.7	280.6	292.9	311.5	431.3	590.9	496.9	417.1	433.8
1247.5	77.5°	867.0	578.0	231.7	247.8	250.4	376.6	565.2	495.0	397.2	387.5
374.0	80°	300.6	225.9	191.8	197.0	193.7	334.7	542.0	430.6	325.1	290.9
154.5	82.5°	122.9	112.6	151.9	145.5	137.7	260.0	437.7	352.1	265.8	234.9
74.7	85°	53.4	71.4	100.4	88.2	79.8	180.2	350.8	298.0	224.6	193.7
24.5	87.5°	10.9	27.0	42.5	39.9	41.2	120.4	249.1	211.8	159.0	119.1
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>
1232.7
1229.4
1253.3
1293.8
1339.5
1382.0
1411.0
1427.7
1437.4
1438.0
1428.3
1411.6
1378.8
1318.3
1219.8
1089.8
940.4
793.0
670.7
587.0
533.0
491.8
460.9
428.1
390.1
401.7
423.5
436.4
421.6
468.6
433.8
353.4
281.3
232.4
193.1
93.3
0.0

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