

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: P948399

Luminaire Tested: **GALN-SB3B-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948399
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-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11730 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

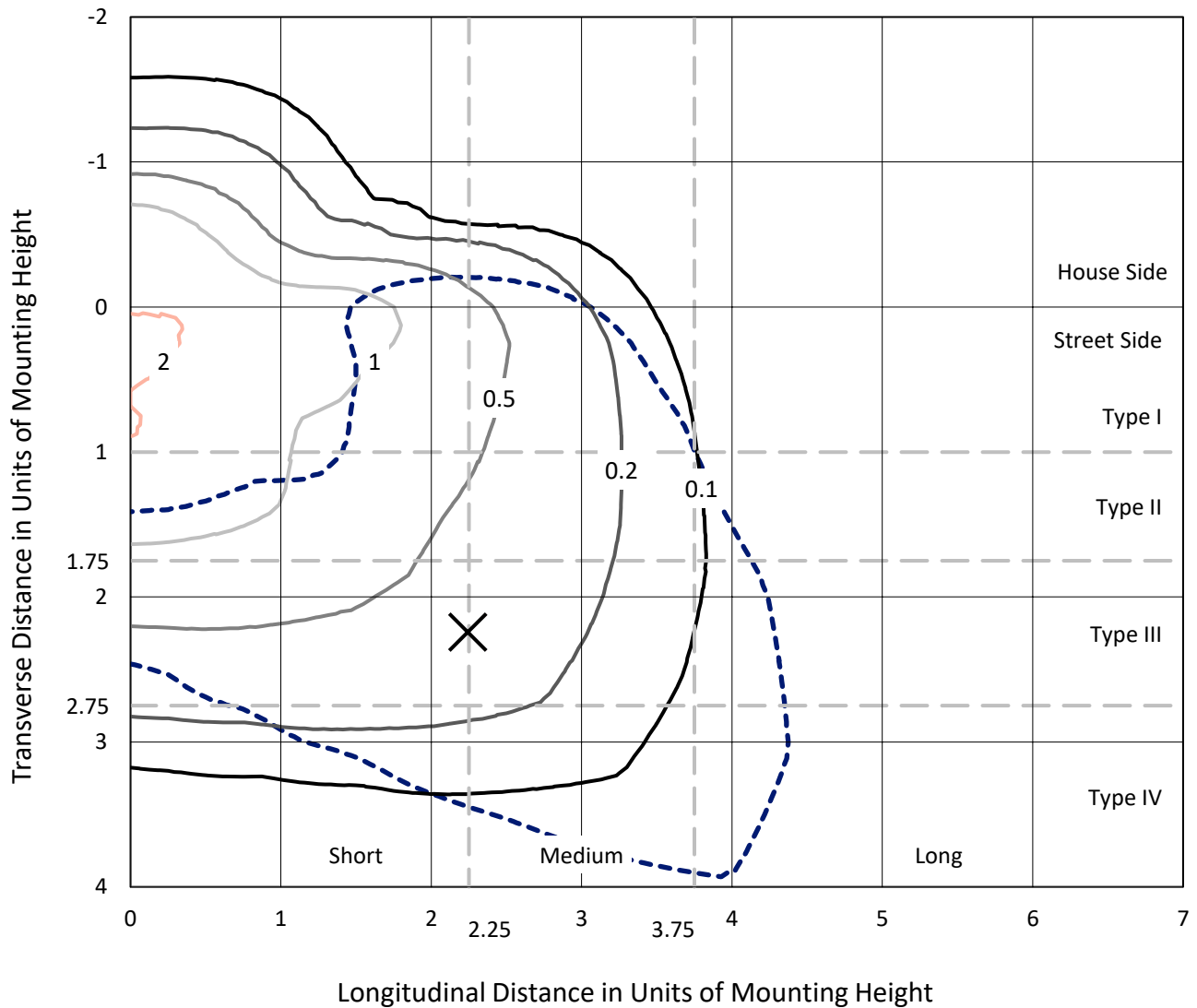
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

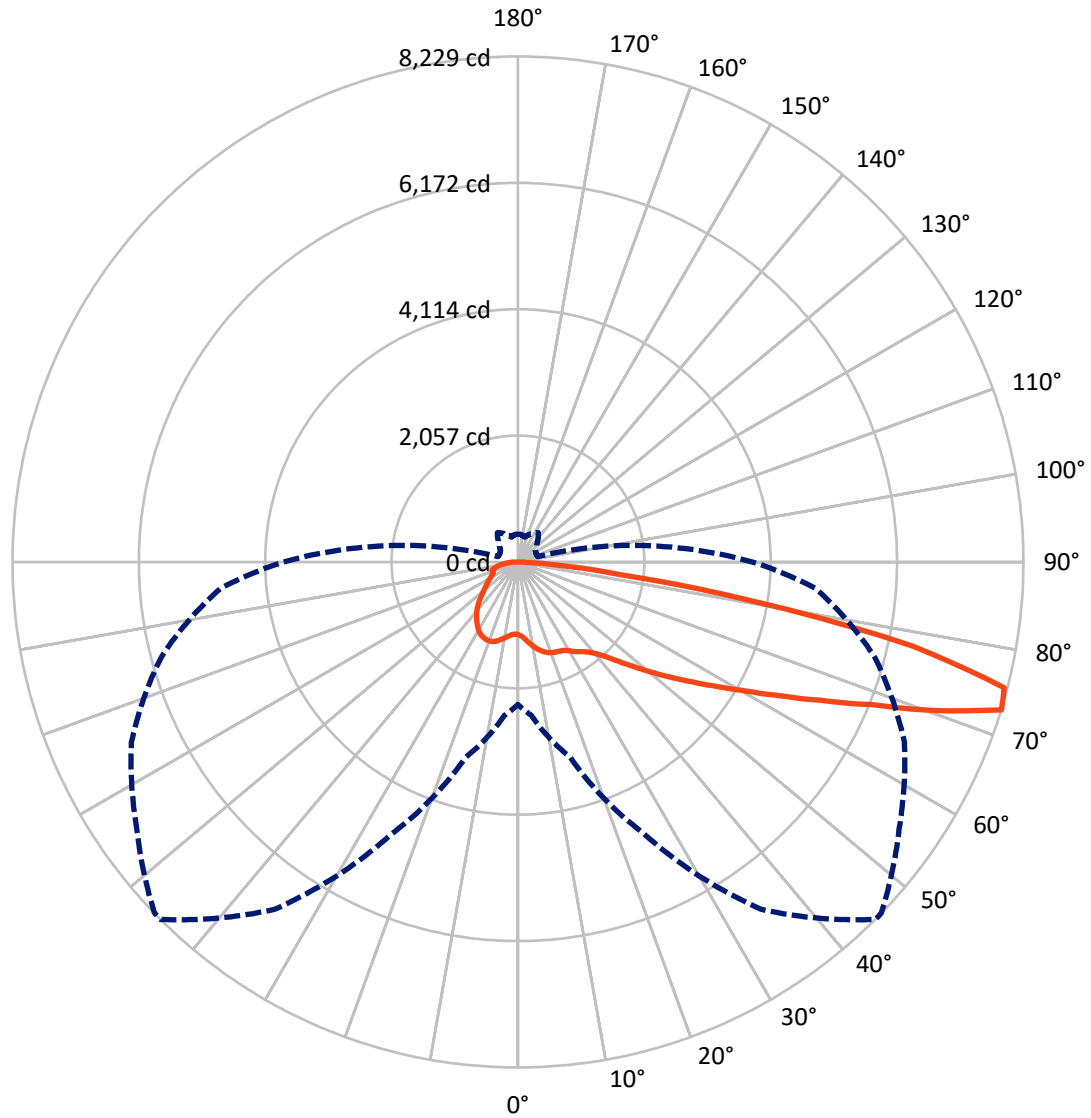
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	2651.8	0.0	2651.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9078.3	0.0	9078.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	11730.0	0.0	11730.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.0
10°-20°	401.6	3.4
20°-30°	698.5	6.0
30°-40°	1001.4	8.5
40°-50°	1410.0	12.0
50°-60°	2159.7	18.4
60°-70°	3128.7	26.7
70°-80°	2498.5	21.3
80°-90°	311.2	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°	11730.0	100.0
0°-180°	11730.0	100.0



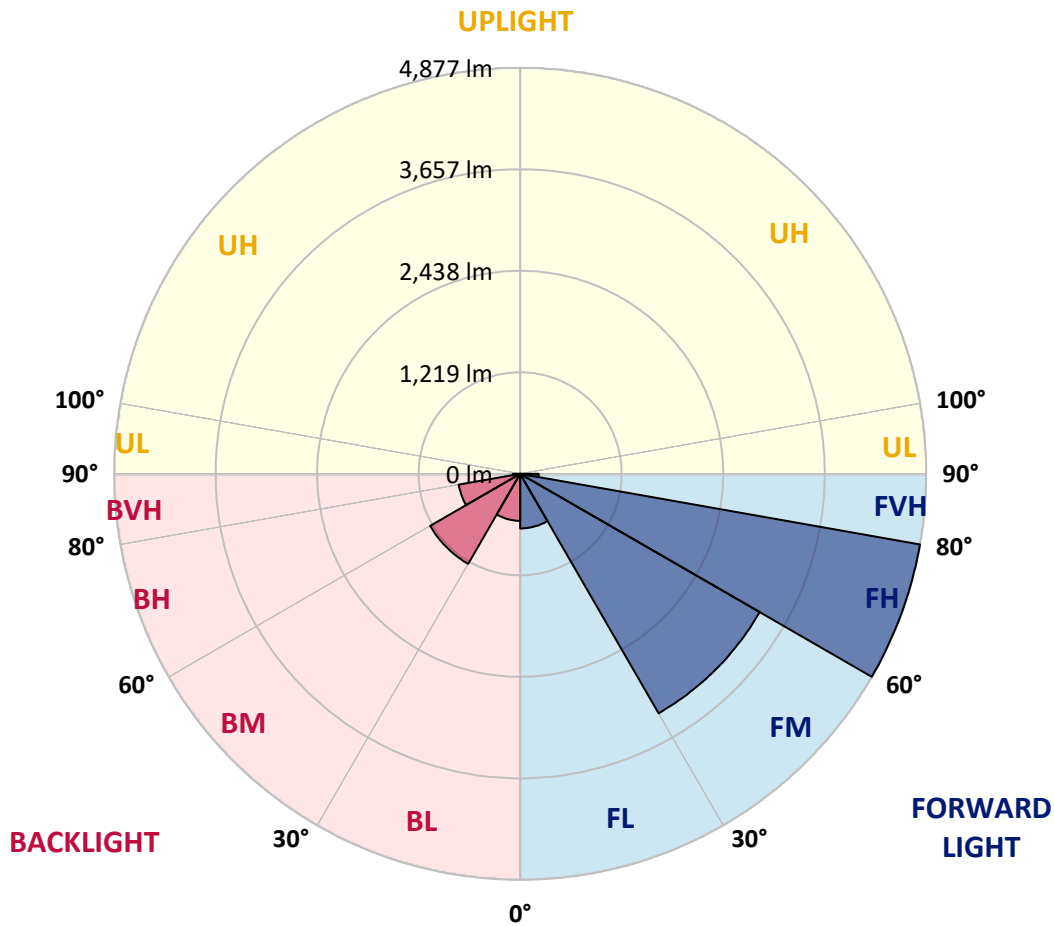
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	656.0	5.6			
FM (30°-60°)	3322.5	28.3			
FH (60°-80°)	4876.5	41.6			G2/5000
FVH (80°-90°)	223.2	1.9			G2/225
BL (0°-30°)	564.6	4.8	B2/1000		
BM (30°-60°)	1248.6	10.6	B2/2500		
BH (60°-80°)	750.6	6.4	B2/1000		G2/1000
BVH (80°-90°)	87.9	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1229.7	1237.7	1230.3	1223.5	1220.4	1212.4	1211.8	1206.8	1203.7	1195.1
5°	1315.6	1326.1	1313.7	1300.1	1287.8	1268.0	1265.5	1251.3	1235.2	1216.7
7.5°	1412.6	1421.8	1407.6	1387.2	1365.6	1332.9	1332.2	1306.3	1281.0	1249.4
10°	1497.2	1509.6	1490.4	1462.6	1435.4	1398.4	1394.0	1364.4	1332.2	1291.5
12.5°	1572.0	1580.7	1562.1	1528.1	1496.6	1459.5	1454.0	1421.2	1385.4	1339.0
15°	1631.3	1642.4	1617.7	1581.3	1547.9	1511.4	1506.5	1476.8	1441.0	1392.2
17.5°	1670.3	1679.5	1654.2	1613.4	1581.3	1551.0	1547.3	1522.6	1491.1	1441.6
20°	1685.1	1695.0	1668.4	1627.0	1597.3	1573.9	1572.0	1554.1	1532.5	1487.3
22.5°	1699.9	1709.2	1674.6	1631.3	1605.4	1590.5	1589.9	1578.2	1569.5	1532.5
25°	1759.9	1762.3	1716.0	1653.6	1616.5	1603.5	1602.9	1602.3	1606.0	1576.9
27.5°	1811.8	1811.1	1771.6	1712.9	1655.4	1628.2	1627.6	1633.8	1645.5	1621.4
30°	1887.8	1881.0	1834.0	1772.8	1720.3	1678.3	1674.6	1669.0	1678.3	1659.1
32.5°	2049.0	2027.4	1951.4	1842.7	1774.1	1741.9	1737.0	1702.4	1706.1	1694.4
35°	2280.1	2251.7	2150.4	1974.9	1840.8	1795.1	1792.6	1748.7	1741.3	1730.8
37.5°	2555.1	2519.9	2401.9	2166.4	1955.7	1856.9	1853.2	1813.6	1783.3	1772.2
40°	2831.3	2786.8	2689.2	2400.0	2125.0	1960.1	1948.3	1888.4	1853.8	1835.2
42.5°	3099.5	3062.4	2979.0	2662.0	2333.9	2110.8	2084.9	1982.3	1956.4	1939.1
45°	3336.8	3303.4	3242.3	2941.9	2578.6	2316.0	2290.7	2123.2	2115.2	2115.2
47.5°	3529.6	3522.2	3457.3	3227.4	2867.2	2549.6	2505.7	2319.1	2340.7	2374.1
50°	3743.4	3723.0	3653.8	3508.6	3206.4	2817.1	2781.3	2559.5	2640.4	2731.9
52.5°	3939.9	3951.0	3873.8	3801.5	3589.5	3115.6	3052.6	2843.1	3018.0	3169.3
55°	4142.0	4142.6	4120.9	4111.1	3991.2	3445.6	3376.3	3184.2	3462.2	3650.1
57.5°	4331.7	4332.9	4365.0	4452.2	4457.1	3826.2	3747.7	3603.1	3956.0	4147.5
60°	4501.0	4509.6	4597.4	4801.3	4866.8	4262.5	4188.3	4098.1	4466.4	4659.2
62.5°	4557.8	4589.3	4784.6	5074.4	5271.5	4797.6	4724.7	4670.9	5002.7	5181.9
65°	4461.4	4533.7	4911.3	5300.0	5688.0	5433.4	5361.1	5302.4	5560.1	5728.8
67.5°	4224.8	4318.1	4903.9	5536.6	6193.5	6198.4	6131.1	5993.3	6157.6	6222.5
70°	3601.3	3740.9	4471.9	5625.0	6773.7	7244.6	7179.7	6825.0	6753.9	6440.0
72.5°	2320.3	2508.2	3292.9	4897.7	6902.9	8228.9	8225.2	7575.8	6942.4	6017.4
75°	846.6	961.5	1530.0	3074.2	5794.3	8178.9	8203.0	7447.2	6337.5	4648.0
77.5°	308.3	337.4	499.3	1181.5	3563.6	6562.4	6612.4	5953.7	4510.9	2332.7
80°	161.9	178.0	255.8	458.5	1526.9	3897.3	3975.7	3538.2	2120.1	702.6
82.5°	89.6	97.0	143.4	249.0	687.8	1666.5	1713.5	1397.7	745.8	297.8
85°	48.2	51.3	67.4	135.9	336.2	577.8	590.7	417.7	297.2	174.9
87.5°	14.2	17.3	22.2	43.3	131.6	129.8	132.9	82.8	117.4	88.4
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°
1183.3	0°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
1192.6	2.5°	1188.9	1187.0	1180.2	1177.1	1173.4	1172.8	1175.9	1176.5	1177.1	1177.8
1206.2	5°	1200.0	1193.8	1187.7	1183.9	1185.2	1185.8	1192.0	1196.3	1199.4	1201.9
1231.5	7.5°	1221.6	1216.7	1206.2	1205.6	1207.4	1213.0	1221.0	1230.9	1236.5	1240.8
1264.3	10°	1253.8	1244.5	1232.1	1234.0	1237.7	1245.7	1262.4	1270.5	1279.7	1287.8
1304.4	12.5°	1286.5	1278.5	1264.3	1265.5	1271.7	1285.9	1302.0	1311.9	1318.0	1324.2
1347.7	15°	1329.2	1314.9	1299.5	1299.5	1310.6	1326.1	1333.5	1341.5	1345.2	1352.0
1394.0	17.5°	1373.0	1354.5	1334.1	1332.9	1346.5	1353.9	1358.2	1359.4	1360.7	1368.1
1439.2	20°	1416.9	1396.5	1367.5	1365.0	1368.1	1366.9	1366.2	1365.0	1366.9	1376.1
1485.5	22.5°	1460.2	1436.7	1396.5	1385.4	1376.7	1365.0	1364.4	1363.8	1365.0	1374.3
1535.5	25°	1510.8	1482.4	1428.6	1395.3	1366.2	1350.2	1352.0	1352.6	1353.9	1361.3
1587.5	27.5°	1565.8	1534.3	1458.3	1392.2	1339.7	1328.5	1325.5	1327.3	1331.6	1343.4
1639.4	30°	1620.8	1583.7	1485.5	1379.8	1306.3	1290.8	1281.0	1285.3	1298.9	1310.6
1684.5	32.5°	1670.9	1633.8	1507.1	1352.6	1263.7	1239.6	1226.6	1232.1	1245.7	1250.1
1734.5	35°	1729.6	1687.6	1516.4	1309.4	1217.3	1180.2	1162.9	1154.9	1161.7	1157.4
1793.2	37.5°	1795.1	1751.2	1515.2	1252.5	1162.9	1120.3	1096.2	1065.9	1051.7	1036.9
1879.7	40°	1892.1	1829.1	1500.3	1183.9	1095.6	1056.7	1013.4	962.1	930.0	900.9
2019.4	42.5°	2024.3	1937.2	1473.1	1108.6	1019.6	983.1	924.4	864.5	813.8	765.6
2231.3	45°	2221.4	2078.7	1439.2	1028.2	937.4	901.6	837.9	770.6	713.1	651.3
2532.3	47.5°	2505.7	2269.0	1407.0	936.8	850.9	818.1	760.7	698.3	630.3	570.3
2967.3	50°	2896.2	2542.1	1377.4	847.8	765.6	740.9	695.2	631.5	562.9	514.7
3477.1	52.5°	3393.0	2913.5	1365.0	761.9	685.9	676.6	640.2	580.9	516.0	475.2
4071.5	55°	3963.4	3357.8	1365.0	679.7	616.1	619.2	593.8	538.8	482.6	446.1
4684.5	57.5°	4545.5	3807.7	1340.3	603.7	556.8	569.7	553.7	505.5	454.8	417.1
5329.0	60°	5081.8	4184.6	1240.2	534.5	504.2	524.6	514.1	472.7	410.9	379.4
5867.8	62.5°	5494.0	4397.2	1047.4	479.5	461.0	484.5	478.9	429.5	402.9	389.9
6310.3	65°	5700.4	4362.6	800.8	430.7	424.5	461.0	449.2	447.4	426.4	411.5
6454.2	67.5°	5573.7	4064.7	580.9	394.9	403.5	439.3	484.5	491.9	452.9	423.9
6048.9	70°	5018.2	3525.9	432.5	360.9	376.9	440.0	552.4	514.7	444.3	410.3
4851.3	72.5°	3817.5	2629.3	335.5	325.0	342.3	443.1	582.7	504.2	419.6	453.6
3022.3	75°	2183.1	1443.5	269.4	281.2	299.1	414.0	567.3	477.0	400.4	416.5
1197.5	77.5°	832.3	554.9	222.5	237.9	240.4	361.5	542.5	475.2	381.3	372.0
359.0	80°	288.6	216.9	184.1	189.1	186.0	321.3	520.3	413.4	312.1	279.3
148.3	82.5°	118.0	108.1	145.8	139.7	132.2	249.6	420.2	338.0	255.2	225.5
71.7	85°	51.3	68.6	96.4	84.7	76.6	173.0	336.8	286.1	215.7	186.0
23.5	87.5°	10.5	26.0	40.8	38.3	39.5	115.6	239.1	203.3	152.6	114.3
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>
1183.3
1180.2
1203.1
1242.0
1285.9
1326.7
1354.5
1370.6
1379.8
1380.4
1371.2
1355.1
1323.6
1265.5
1171.0
1046.1
902.8
761.3
643.9
563.5
511.6
472.1
442.4
410.9
374.5
385.6
406.6
419.0
404.7
449.9
416.5
339.2
270.0
223.1
185.4
89.6
0.0

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