

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: P939265

Luminaire Tested: **GALN-SB1D-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939265  
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-SB1D-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

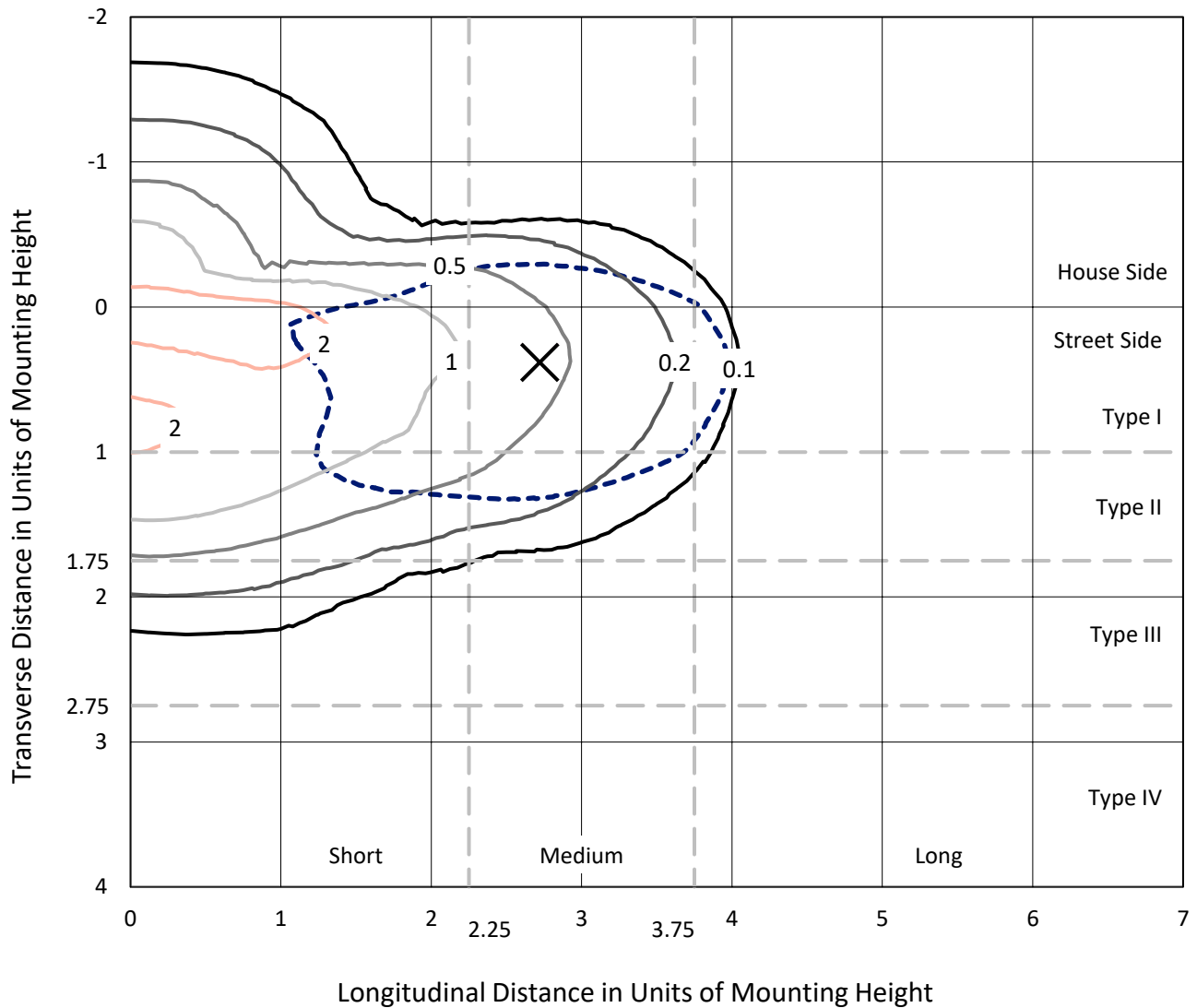
Lumens per Lamp: N/A  
Luminaire Lumens: 10671 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

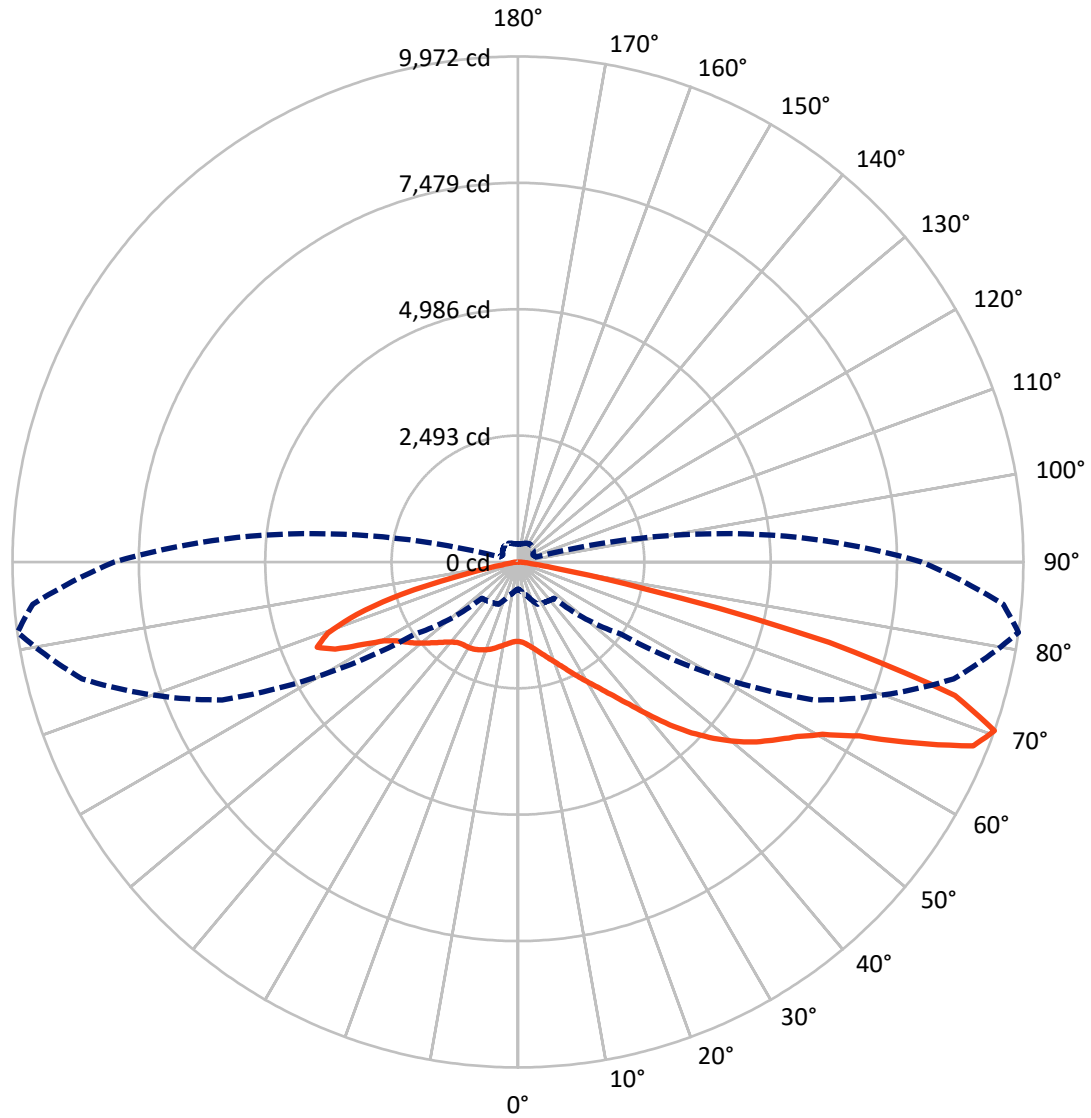
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
<b>House Side</b>	Lumens	2630.7	0.0	2630.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	8040.3	0.0	8040.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	10671.0	0.0	10671.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	1.4
10°-20°	424.4	4.0
20°-30°	710.0	6.7
30°-40°	1109.2	10.4
40°-50°	1766.5	16.6
50°-60°	2458.3	23.0
60°-70°	2571.5	24.1
70°-80°	1344.0	12.6
80°-90°	139.6	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°	10671.0	100.0
0°-180°	10671.0	100.0

**Coefficient of Utilization**



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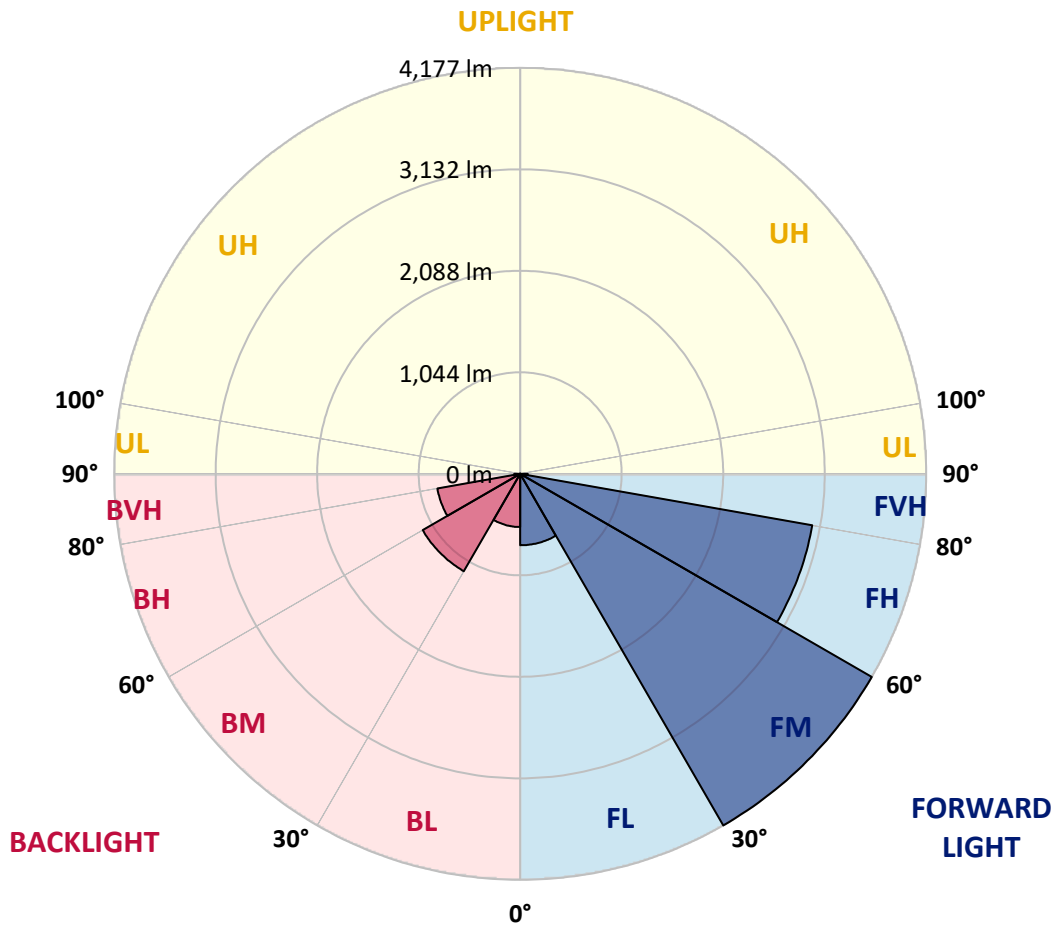
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.8	6.9			
FM (30°-60°)	4176.5	39.1			
FH (60°-80°)	3050.9	28.6			G2/5000
FVH (80°-90°)	78.1	0.7			G1/100
BL (0°-30°)	547.3	5.1	B2/1000		
BM (30°-60°)	1157.4	10.8	B2/2500		
BH (60°-80°)	864.6	8.1	B2/1000		G2/1000
BVH (80°-90°)	61.4	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°	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5
2.5°	1601.9	1610.9	1608.1	1605.3	1605.3	1601.3	1600.7	1595.1	1590.5	1583.2
5°	1622.3	1631.9	1630.8	1633.0	1640.4	1642.1	1643.8	1640.4	1631.3	1622.3
7.5°	1604.1	1614.9	1618.3	1631.9	1654.5	1674.9	1690.2	1696.4	1687.9	1674.9
10°	1543.0	1554.9	1566.8	1599.0	1639.2	1687.4	1728.1	1752.5	1750.8	1738.3
12.5°	1419.0	1431.4	1456.9	1519.8	1593.4	1678.3	1754.2	1805.2	1822.7	1813.6
15°	1319.9	1330.6	1349.9	1414.5	1510.1	1639.2	1763.8	1862.9	1907.6	1902.5
17.5°	1317.1	1321.6	1333.5	1364.1	1437.7	1578.1	1753.6	1919.5	2005.0	2004.5
20°	1366.9	1368.6	1375.4	1381.6	1423.5	1531.7	1727.6	1966.5	2114.3	2114.3
22.5°	1436.0	1434.8	1441.6	1436.0	1456.4	1527.7	1711.2	2007.9	2236.1	2245.1
25°	1539.6	1533.9	1532.2	1519.2	1523.2	1564.5	1729.3	2054.9	2380.4	2399.1
27.5°	1677.7	1668.7	1662.5	1632.5	1622.3	1640.4	1784.8	2111.5	2541.3	2573.5
30°	1857.8	1841.4	1832.3	1780.2	1743.4	1746.3	1868.6	2186.8	2709.4	2761.5
32.5°	2103.6	2078.1	2053.7	1968.2	1900.8	1878.8	1976.7	2291.0	2891.8	2975.0
35°	2378.7	2358.4	2332.3	2200.4	2096.8	2045.8	2122.8	2436.5	3105.2	3237.2
37.5°	2643.7	2626.2	2638.6	2460.8	2327.2	2253.0	2314.2	2631.9	3368.5	3563.3
40°	2917.8	2904.2	2905.9	2736.0	2580.3	2497.1	2546.4	2877.0	3670.3	3951.2
42.5°	3215.6	3205.4	3171.5	3020.9	2845.9	2768.3	2813.6	3160.1	3994.2	4392.8
45°	3549.1	3542.9	3511.2	3338.5	3138.1	3050.9	3112.0	3472.7	4319.8	4808.5
47.5°	3837.4	3842.5	3838.5	3693.0	3485.2	3357.2	3430.2	3798.9	4622.7	5199.2
50°	3976.1	4002.7	4041.8	3996.5	3867.4	3737.1	3751.3	4113.7	4911.5	5565.5
52.5°	3903.6	3954.0	4060.5	4132.9	4182.8	4155.6	4117.6	4426.2	5183.3	5896.2
55°	3633.5	3704.3	3881.0	4055.9	4310.2	4507.8	4557.6	4772.8	5448.3	6187.2
57.5°	3141.5	3256.4	3415.0	3768.8	4196.9	4678.2	5070.6	5253.5	5729.1	6498.1
60°	2297.8	2451.8	2648.8	3175.4	3800.6	4587.1	5507.2	5991.9	6128.3	6900.7
62.5°	1470.5	1565.6	1746.8	2242.8	2961.4	4119.9	5640.8	6914.8	6805.0	7560.9
65°	1006.8	1067.9	1233.8	1512.4	1914.4	3066.7	5283.0	7606.8	7879.7	8607.3
67.5°	731.6	778.0	919.6	1163.6	1247.4	1814.8	4099.5	7575.1	8924.4	9685.4
70°	533.4	566.2	685.1	919.6	959.8	1009.6	2483.5	6439.2	8901.8	9971.9
72.5°	395.2	417.9	497.7	713.5	776.9	681.7	1229.3	4679.9	7649.2	9019.5
75°	285.9	302.9	361.8	545.8	621.7	519.2	613.2	2734.9	5335.6	6344.6
77.5°	218.6	231.6	270.1	399.8	497.7	389.6	380.5	1258.2	2529.9	2542.4
80°	175.5	184.0	205.0	281.4	381.6	291.6	248.0	507.9	799.5	676.6
82.5°	129.1	143.3	173.3	197.6	272.9	201.0	151.2	256.5	304.1	261.6
85°	73.6	83.2	104.8	141.6	174.4	122.9	86.6	113.8	141.6	116.1
87.5°	26.0	34.0	36.8	55.5	75.9	51.0	33.4	32.8	46.4	34.5
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°
1564.5	0°	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5	1564.5
1581.5	2.5°	1575.8	1573.0	1561.7	1546.4	1530.5	1515.2	1510.1	1499.4	1492.0	1488.1
1618.3	5°	1607.5	1598.5	1571.9	1537.9	1502.2	1463.7	1436.5	1411.6	1393.5	1376.5
1668.7	7.5°	1652.8	1637.0	1591.1	1531.7	1468.2	1404.3	1356.7	1320.5	1296.1	1280.3
1727.6	10°	1705.5	1681.1	1610.9	1522.0	1424.1	1332.3	1276.3	1245.1	1229.9	1221.4
1795.0	12.5°	1766.1	1731.5	1631.3	1500.0	1356.7	1251.9	1213.4	1204.4	1204.9	1205.5
1879.9	15°	1840.8	1792.7	1647.7	1451.8	1268.9	1190.2	1183.4	1198.1	1213.4	1220.8
1976.2	17.5°	1925.2	1857.2	1650.6	1372.5	1182.9	1150.6	1172.1	1203.8	1227.0	1237.2
2083.7	20°	2015.8	1922.9	1630.2	1260.4	1112.1	1118.3	1156.8	1197.6	1223.1	1236.1
2206.6	22.5°	2119.4	1993.1	1581.5	1142.7	1054.3	1083.2	1128.5	1168.1	1194.8	1207.8
2351.0	25°	2237.8	2071.8	1505.0	1043.6	1004.5	1043.6	1088.9	1121.7	1143.2	1155.1
2512.4	27.5°	2369.1	2154.0	1403.1	964.9	960.9	1002.8	1040.2	1065.7	1077.0	1086.0
2683.9	30°	2501.1	2228.7	1279.7	905.4	923.0	962.6	989.2	1000.5	1003.9	1005.6
2875.3	32.5°	2643.7	2293.2	1150.0	856.1	886.7	923.5	939.4	944.5	928.6	917.9
3107.5	35°	2816.4	2362.3	1023.2	817.1	851.0	882.8	887.9	883.3	864.6	842.6
3398.5	37.5°	3029.9	2448.4	921.8	789.3	817.6	838.6	832.4	831.2	832.9	806.9
3748.5	40°	3291.5	2560.5	847.7	767.8	790.5	795.0	777.4	787.1	795.6	755.9
4132.4	42.5°	3582.0	2695.8	800.7	753.1	767.8	757.1	729.9	740.6	739.5	687.4
4518.0	45°	3878.1	2843.1	784.2	742.3	746.9	725.3	695.3	698.2	674.4	627.4
4887.7	47.5°	4172.6	3001.0	794.4	733.3	720.8	696.5	673.3	660.8	625.7	590.6
5242.2	50°	4461.4	3166.9	831.8	715.2	685.1	671.0	654.0	631.9	594.5	564.5
5577.4	52.5°	4729.2	3334.0	873.7	685.1	640.4	648.9	638.1	612.7	575.9	545.3
5894.5	55°	4982.9	3501.0	890.1	643.8	598.5	629.7	623.4	576.4	532.3	507.3
6226.3	57.5°	5259.2	3702.0	872.0	591.1	564.5	607.6	583.8	531.7	506.2	487.5
6658.3	60°	5641.9	4017.4	832.9	526.0	532.3	574.7	534.0	512.4	484.7	463.7
7306.1	62.5°	6277.8	4605.7	770.1	461.5	494.3	526.0	510.2	488.7	460.3	440.0
8413.7	65°	7217.8	5423.4	651.7	411.1	451.9	478.5	484.7	463.2	433.7	412.2
9384.2	67.5°	8010.5	5936.4	493.2	369.2	408.3	440.0	457.5	436.6	405.4	384.5
9611.2	70°	7966.9	5563.8	376.5	327.8	369.8	402.0	424.7	408.3	374.8	355.0
8730.2	72.5°	7076.2	4654.4	304.6	285.9	330.7	362.4	389.6	377.1	343.1	323.9
6395.6	75°	5198.6	3304.0	243.5	243.5	282.0	321.1	351.1	343.1	312.0	298.4
2685.1	77.5°	2191.3	1386.1	190.8	202.1	234.4	275.8	313.1	316.0	288.8	305.8
710.1	80°	582.7	382.2	145.5	159.1	184.0	227.6	272.4	271.2	241.8	225.9
263.9	82.5°	222.0	150.6	103.6	112.1	133.1	174.4	215.7	222.5	193.1	167.0
103.6	85°	85.5	64.6	64.0	67.4	77.6	115.5	163.1	168.7	145.5	123.4
28.9	87.5°	22.1	19.3	23.8	22.6	35.7	61.7	93.4	96.8	88.9	51.5
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>
1564.5
1492.6
1383.3
1283.7
1223.6
1206.6
1220.2
1239.5
1239.5
1211.2
1158.5
1089.4
1009.6
921.3
843.7
808.6
757.1
686.8
629.1
590.6
562.3
545.8
505.1
485.8
462.6
440.0
413.4
385.0
356.7
323.9
294.4
277.5
210.1
167.0
127.4
73.6
0.0

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