

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: P946003

Luminaire Tested: **GALN-SB1D-740-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
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-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

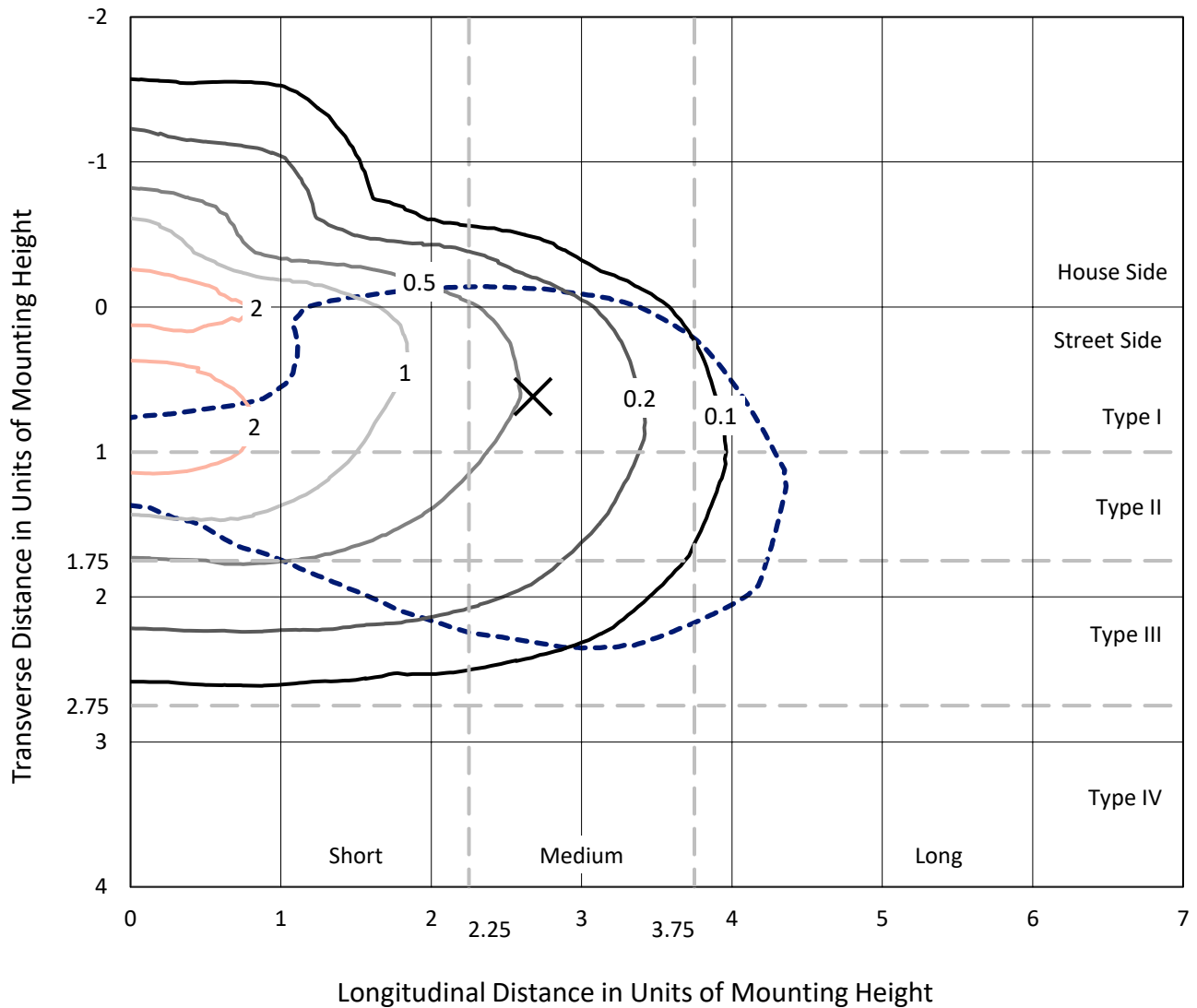
Lumens per Lamp: N/A  
Luminaire Lumens: 11056 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

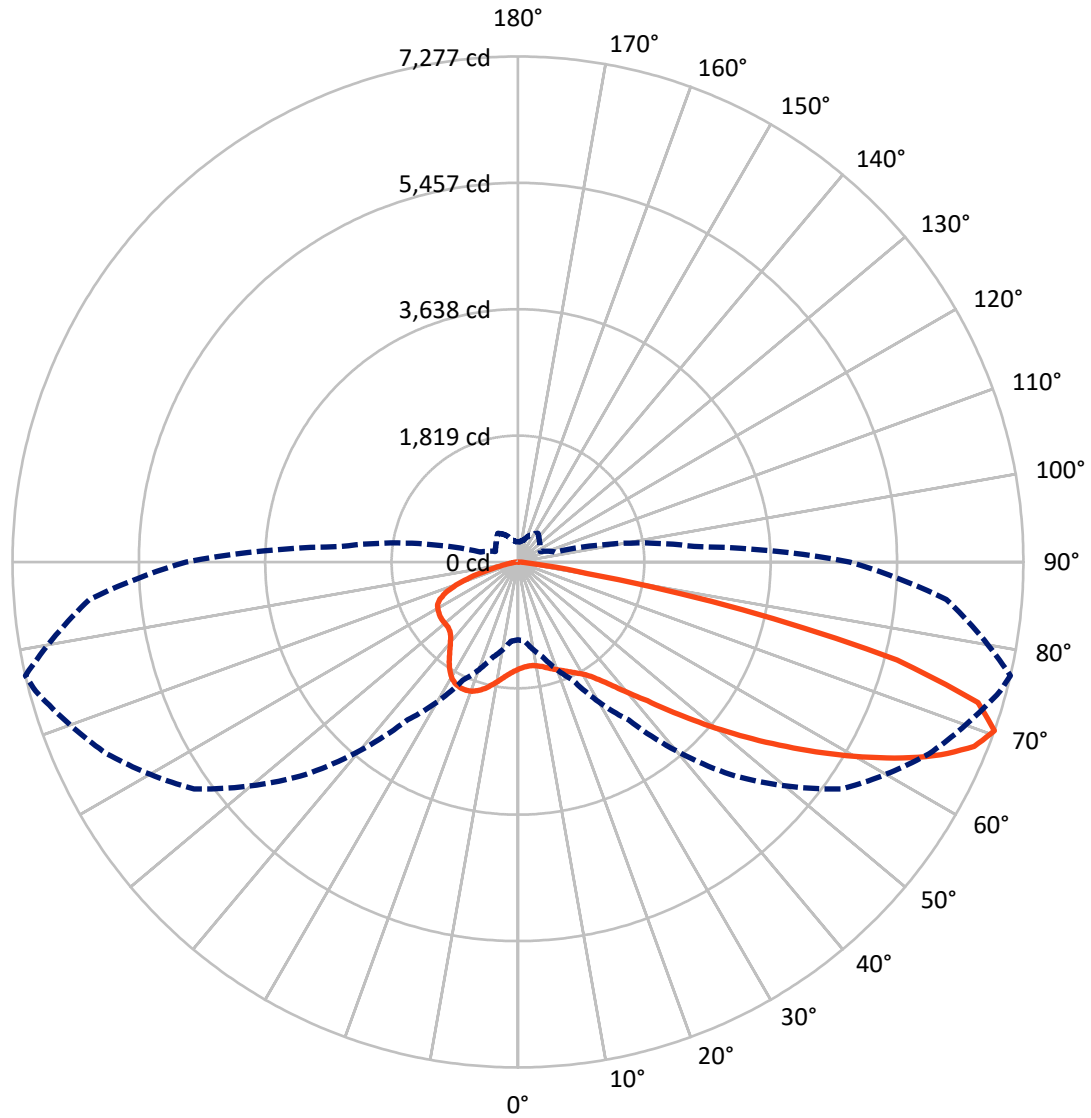
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2421.1	0.0	2421.1
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	8634.9	0.0	8634.9
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	11056.0	0.0	11056.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.1	1.3
10°-20°	424.6	3.8
20°-30°	726.1	6.6
30°-40°	1167.6	10.6
40°-50°	1822.9	16.5
50°-60°	2434.9	22.0
60°-70°	2595.3	23.5
70°-80°	1597.6	14.5
80°-90°	140.0	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°	11056.0	100.0
0°-180°	11056.0	100.0



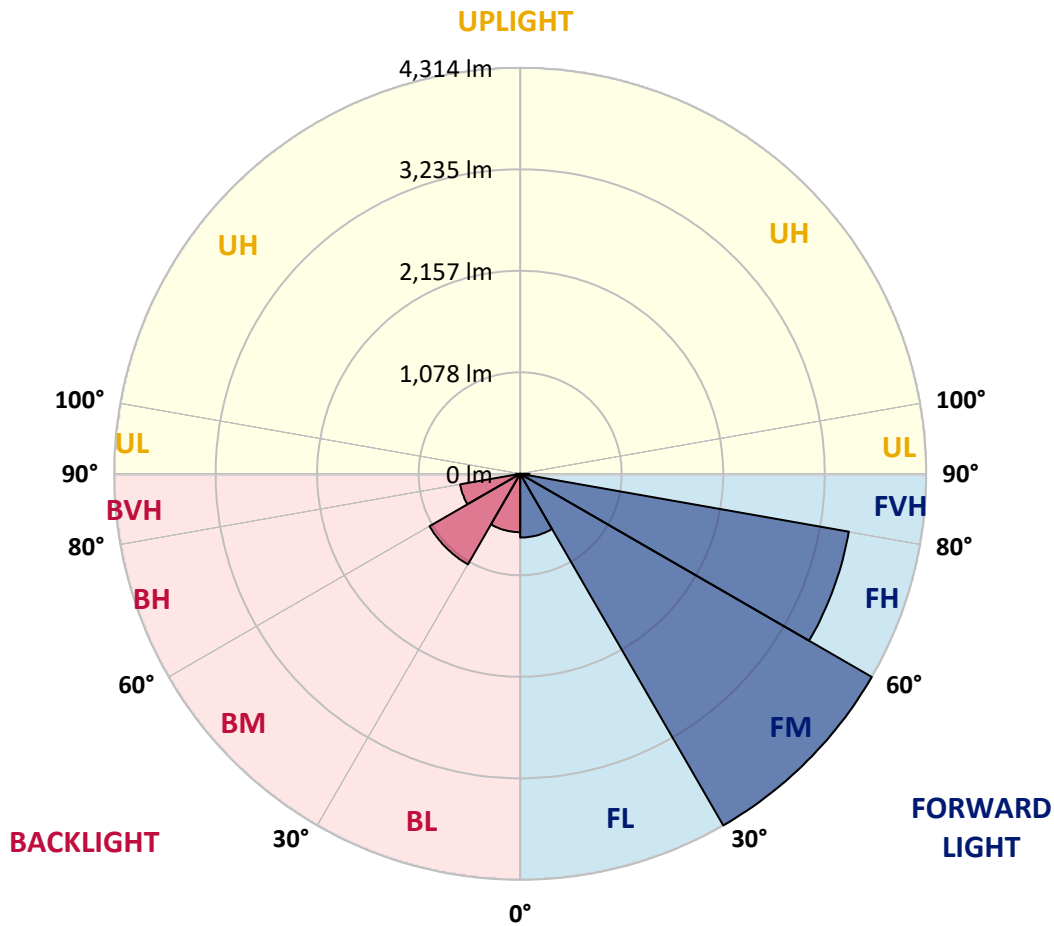
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.4	6.1			
FM (30°-60°)	4313.8	39.0			
FH (60°-80°)	3545.8	32.1			G2/5000
FVH (80°-90°)	97.9	0.9			G1/100
BL (0°-30°)	620.4	5.6	B2/1000		
BM (30°-60°)	1111.6	10.1	B2/2500		
BH (60°-80°)	647.1	5.9	B2/1000		G2/1000
BVH (80°-90°)	42.1	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4
2.5°	1421.8	1421.2	1428.6	1430.9	1444.5	1454.1	1472.2	1491.5	1516.4	1519.2
5°	1339.7	1339.7	1348.2	1357.3	1374.8	1394.1	1421.8	1455.2	1498.2	1505.0
7.5°	1270.1	1274.6	1281.9	1299.5	1319.9	1347.6	1390.1	1437.7	1494.3	1505.0
10°	1214.0	1219.1	1228.2	1242.3	1272.9	1311.4	1366.9	1428.0	1503.9	1520.9
12.5°	1196.4	1201.5	1206.6	1217.4	1245.7	1291.0	1357.3	1432.6	1527.1	1544.1
15°	1237.2	1243.4	1239.5	1236.6	1251.4	1292.7	1361.8	1449.0	1556.0	1580.4
17.5°	1331.2	1333.5	1324.4	1297.8	1295.5	1317.6	1383.3	1471.6	1592.2	1618.9
20°	1483.0	1479.0	1460.3	1407.6	1377.6	1373.1	1420.1	1505.6	1629.6	1657.9
22.5°	1689.1	1684.5	1647.2	1563.9	1497.1	1452.9	1473.3	1549.8	1671.5	1703.2
25°	1946.1	1939.9	1885.0	1771.7	1668.1	1558.8	1545.8	1608.1	1723.0	1752.5
27.5°	2246.2	2241.1	2181.7	2032.2	1882.7	1703.8	1635.8	1676.6	1776.8	1810.2
30°	2569.0	2583.7	2478.4	2317.6	2128.5	1892.9	1757.0	1761.0	1846.5	1876.5
32.5°	2948.4	2973.8	2847.0	2643.2	2385.0	2098.5	1909.9	1878.8	1947.8	1972.7
35°	3324.3	3353.2	3247.9	3022.5	2725.3	2340.8	2069.6	2014.1	2082.6	2109.8
37.5°	3649.4	3687.9	3633.5	3437.6	3089.4	2633.0	2277.9	2173.2	2248.5	2282.5
40°	3905.9	3964.7	3960.8	3838.5	3518.6	2987.4	2542.4	2369.7	2454.6	2491.4
42.5°	4114.2	4165.2	4209.4	4203.1	3966.4	3390.0	2853.2	2625.0	2689.6	2732.1
45°	4258.1	4312.4	4407.5	4510.0	4397.3	3820.9	3209.4	2928.0	2986.9	3050.9
47.5°	4386.6	4448.3	4571.7	4734.3	4763.1	4253.5	3599.5	3280.7	3334.5	3400.8
50°	4397.9	4451.1	4642.5	4873.0	5023.0	4669.1	4018.5	3676.5	3726.9	3797.7
52.5°	4124.4	4208.2	4542.3	4869.0	5142.5	5016.8	4434.7	4088.2	4144.8	4229.7
55°	3201.5	3324.3	4248.4	4717.3	5100.0	5241.6	4830.5	4525.9	4598.4	4687.3
57.5°	2757.5	2811.3	3372.5	4440.9	4906.4	5299.9	5164.6	4968.1	5084.8	5182.1
60°	2478.4	2523.1	2854.9	4011.2	4651.6	5207.6	5422.8	5380.3	5581.9	5698.0
62.5°	2179.4	2221.9	2523.7	3349.3	4325.4	5054.2	5585.9	5760.8	6091.5	6218.3
65°	1882.7	1919.0	2208.3	2814.2	3911.0	4900.7	5670.2	6089.8	6563.2	6694.5
67.5°	1552.0	1582.0	1855.5	2374.2	3407.0	4690.7	5712.1	6348.6	6973.7	7086.4
70°	1120.0	1143.2	1425.8	1877.6	2774.5	4329.4	5695.1	6532.0	7186.6	7276.6
72.5°	529.4	550.4	882.2	1219.1	1959.7	3626.1	5351.4	6386.5	6970.3	6925.6
75°	282.5	300.7	506.8	668.7	1035.1	2485.8	4379.2	5501.5	5853.1	5635.7
77.5°	191.4	205.5	313.7	401.5	472.8	1180.0	2814.7	3809.0	3664.6	3305.7
80°	151.7	166.5	257.1	271.8	228.8	426.4	1163.0	1763.2	1266.7	1013.0
82.5°	116.6	133.1	216.3	197.0	124.6	175.0	338.6	557.7	324.5	246.9
85°	71.3	88.9	169.9	125.7	70.2	79.8	114.9	155.1	99.1	82.7
87.5°	36.2	51.0	86.1	45.9	31.7	18.7	30.6	30.6	26.0	22.6
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°
1542.4	0°	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4	1542.4
1534.5	2.5°	1548.1	1559.4	1578.7	1596.8	1610.9	1624.5	1638.1	1645.5	1647.7	1656.8
1543.0	5°	1566.2	1587.1	1624.5	1659.6	1681.7	1695.3	1704.9	1710.6	1711.7	1714.5
1566.2	7.5°	1599.6	1633.0	1685.1	1720.2	1736.6	1735.5	1731.5	1717.4	1711.7	1706.6
1600.2	10°	1646.6	1690.8	1754.7	1779.1	1768.9	1741.7	1706.6	1665.3	1646.0	1627.3
1646.6	12.5°	1704.9	1761.0	1823.8	1822.7	1772.3	1702.7	1621.1	1557.7	1517.5	1488.6
1703.8	15°	1775.7	1840.3	1888.4	1849.9	1739.5	1614.3	1494.8	1412.2	1375.9	1344.2
1761.5	17.5°	1848.7	1917.8	1939.9	1841.4	1656.8	1483.5	1348.2	1283.1	1247.4	1230.4
1823.8	20°	1920.1	1988.6	1970.5	1792.7	1531.1	1335.2	1214.6	1178.9	1171.5	1175.5
1884.4	22.5°	1995.4	2056.6	1976.7	1698.7	1370.8	1183.4	1117.2	1118.3	1134.7	1146.6
1947.8	25°	2072.4	2113.7	1960.3	1562.8	1198.7	1071.9	1055.5	1073.6	1105.8	1129.1
2019.2	27.5°	2146.6	2164.7	1924.6	1394.6	1050.9	992.0	994.9	1032.2	1080.9	1113.2
2105.8	30°	2230.4	2210.0	1856.1	1205.5	948.4	923.5	947.3	990.9	1039.6	1068.5
2215.1	32.5°	2324.9	2249.1	1747.4	1030.5	876.0	868.6	907.7	936.0	957.5	966.0
2360.1	35°	2442.7	2304.0	1608.1	907.7	810.8	828.4	865.8	851.6	843.1	838.6
2554.8	37.5°	2595.6	2378.2	1445.0	827.8	758.2	799.5	814.8	770.6	737.2	720.8
2791.0	40°	2779.6	2486.9	1288.2	766.1	724.8	774.6	748.0	694.8	652.3	629.1
3056.5	42.5°	2984.0	2600.7	1156.2	719.7	706.1	754.2	698.7	635.3	566.8	559.4
3373.0	45°	3198.6	2717.9	1066.2	684.0	697.0	736.7	670.4	567.9	519.2	549.2
3690.7	47.5°	3413.2	2825.5	1011.9	657.4	692.5	716.8	645.5	530.6	496.0	539.6
4031.0	50°	3652.2	2921.8	987.5	638.1	687.4	708.9	608.1	520.9	471.7	500.5
4383.2	52.5°	3889.4	2996.5	969.4	618.9	680.0	702.7	590.0	509.6	442.2	443.9
4737.7	55°	4126.1	3045.2	949.6	593.4	663.6	689.1	588.3	497.2	420.1	412.2
5112.5	57.5°	4378.7	3072.9	925.2	565.1	635.3	654.6	586.6	487.5	413.3	400.3
5495.8	60°	4635.7	3113.7	893.5	530.6	597.4	613.2	582.7	484.1	409.4	387.3
5857.1	62.5°	4866.2	3127.9	855.6	497.7	548.7	572.5	574.2	481.3	398.6	360.7
6157.2	65°	5017.4	3066.7	789.3	460.3	496.0	530.6	557.7	471.7	379.4	341.4
6305.5	67.5°	5011.1	2892.3	685.7	412.2	445.1	484.1	534.0	455.2	356.2	317.7
6193.4	70°	4777.9	2548.0	554.3	356.2	389.0	434.3	503.4	430.9	328.4	291.6
5507.2	72.5°	4097.8	1994.3	402.6	290.5	323.9	382.8	463.7	401.5	300.1	268.4
4070.1	75°	2927.4	1262.1	272.9	223.1	252.0	324.5	414.5	366.9	274.1	269.5
2038.4	77.5°	1495.4	603.0	180.6	163.1	175.5	255.9	348.2	327.8	278.0	222.5
579.8	80°	486.4	222.5	113.8	111.0	116.6	170.4	269.5	269.0	210.6	151.2
140.4	82.5°	155.1	95.7	74.2	71.3	68.5	107.0	188.0	212.9	142.1	95.7
50.4	85°	61.7	57.2	43.6	40.2	28.9	50.4	98.5	141.6	105.9	69.1
13.0	87.5°	22.6	22.6	11.9	8.5	6.2	17.0	26.6	42.5	60.6	35.7
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>
1542.4
1661.9
1719.1
1707.8
1621.7
1481.8
1340.8
1235.5
1173.8
1149.4
1135.3
1121.1
1075.3
970.5
843.1
724.8
630.8
566.8
565.1
560.0
522.1
455.8
417.9
402.0
389.0
360.7
341.4
319.4
295.0
266.7
254.2
198.2
133.6
95.1
70.8
35.1
0.0

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