

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: P946066

Luminaire Tested: **GALN-SB1D-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946066  
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-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

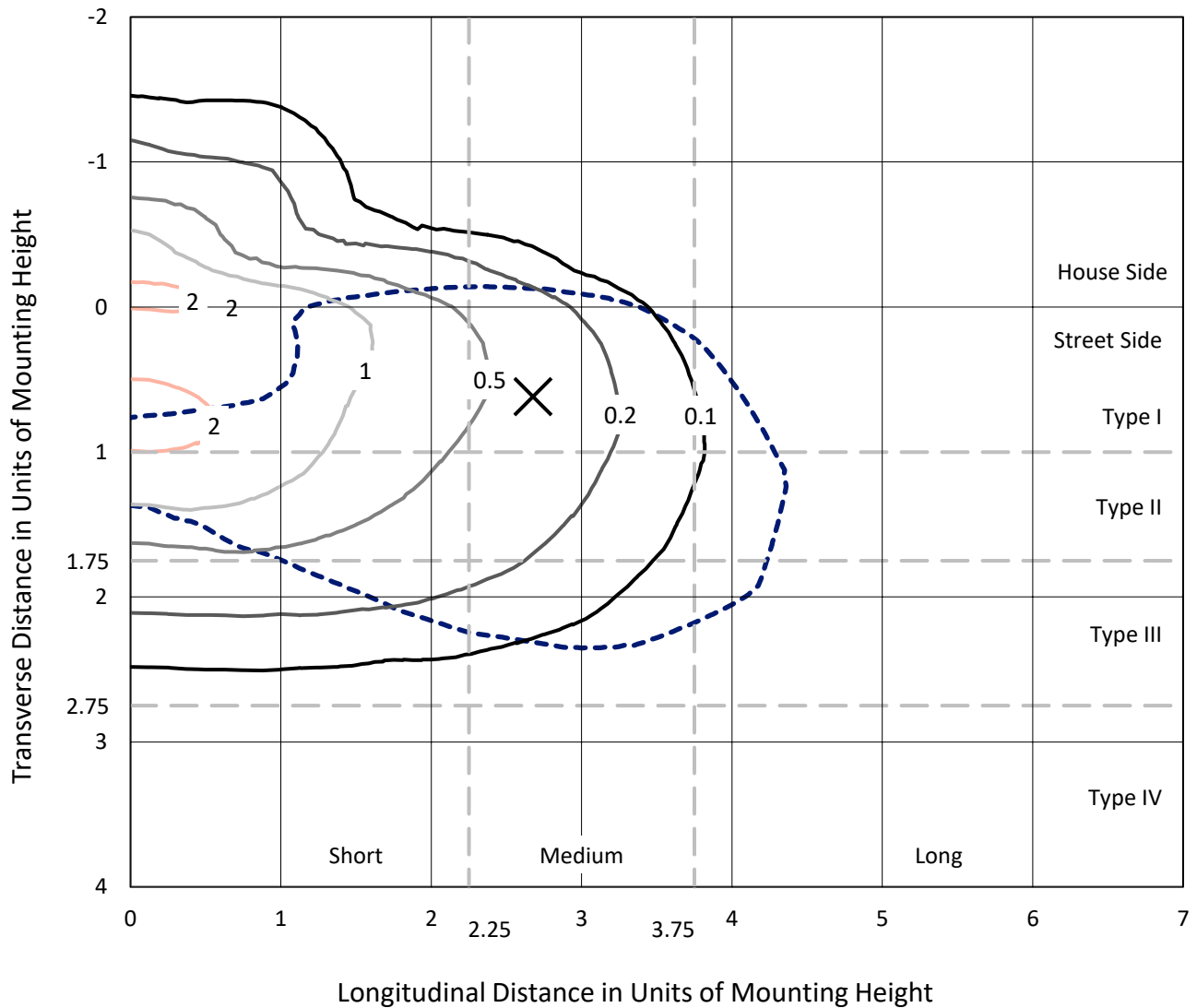
Lumens per Lamp: N/A  
Luminaire Lumens: 9087 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

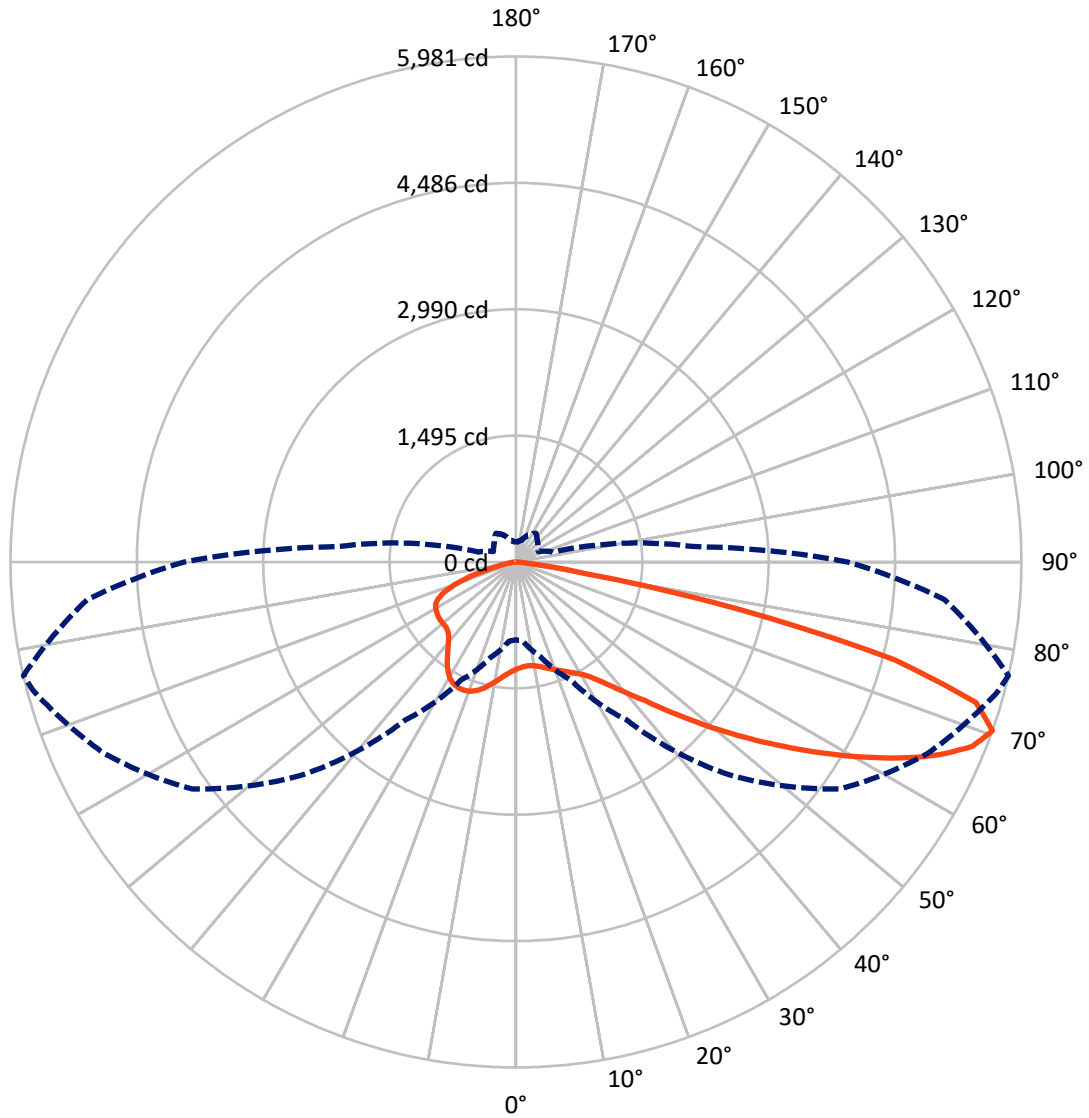
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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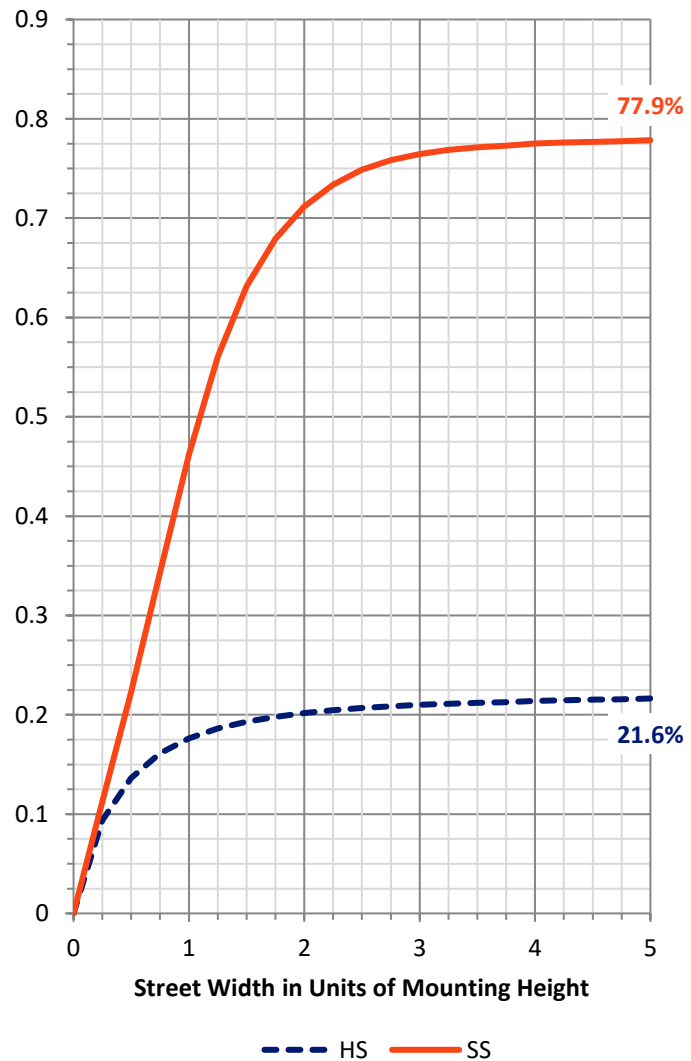
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1989.9	0.0	1989.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	7097.1	0.0	7097.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	9087.0	0.0	9087.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.9	1.3
10°-20°	348.9	3.8
20°-30°	596.7	6.6
30°-40°	959.6	10.6
40°-50°	1498.2	16.5
50°-60°	2001.3	22.0
60°-70°	2133.1	23.5
70°-80°	1313.1	14.5
80°-90°	115.1	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°	9087.0	100.0
0°-180°	9087.0	100.0



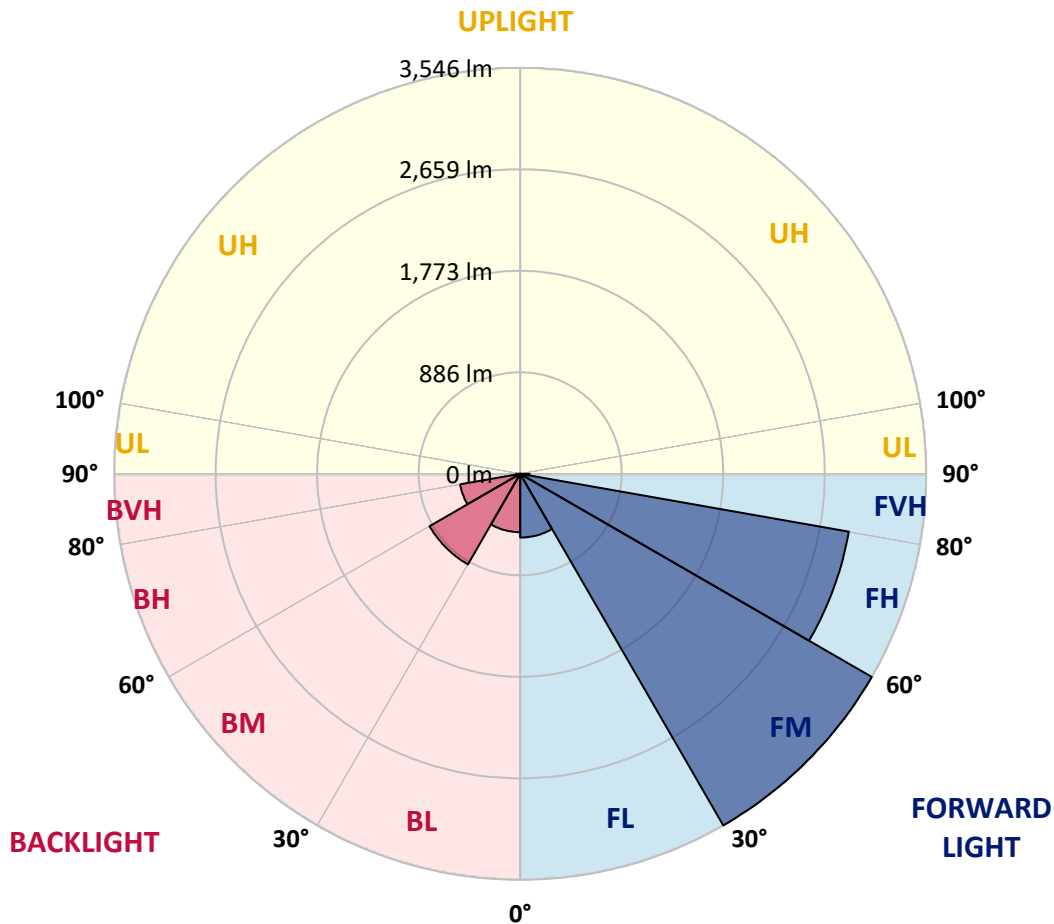
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.7	6.1			
FM (30°-60°)	3545.6	39.0			
FH (60°-80°)	2914.3	32.1			G2/5000
FVH (80°-90°)	80.5	0.9			G1/100
BL (0°-30°)	509.9	5.6	B2/1000		
BM (30°-60°)	913.6	10.1	B1/1000		
BH (60°-80°)	531.8	5.9	B2/1000		G2/1000
BVH (80°-90°)	34.6	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°	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7
2.5°	1168.6	1168.1	1174.2	1176.0	1187.2	1195.1	1210.0	1225.8	1246.3	1248.6
5°	1101.1	1101.1	1108.1	1115.5	1130.0	1145.8	1168.6	1196.0	1231.4	1237.0
7.5°	1043.9	1047.6	1053.6	1068.1	1084.8	1107.6	1142.5	1181.6	1228.2	1237.0
10°	997.8	1002.0	1009.4	1021.1	1046.2	1077.8	1123.4	1173.7	1236.1	1250.0
12.5°	983.4	987.6	991.7	1000.6	1023.9	1061.1	1115.5	1177.4	1255.2	1269.1
15°	1016.9	1022.0	1018.7	1016.4	1028.5	1062.5	1119.3	1190.9	1278.9	1298.9
17.5°	1094.1	1096.0	1088.5	1066.7	1064.8	1083.0	1136.9	1209.5	1308.7	1330.5
20°	1218.9	1215.6	1200.2	1157.0	1132.3	1128.6	1167.2	1237.5	1339.4	1362.7
22.5°	1388.3	1384.5	1353.8	1285.4	1230.5	1194.2	1210.9	1273.8	1373.8	1399.9
25°	1599.5	1594.4	1549.3	1456.2	1371.0	1281.2	1270.5	1321.7	1416.2	1440.4
27.5°	1846.2	1842.0	1793.1	1670.3	1547.4	1400.4	1344.5	1378.0	1460.4	1487.8
30°	2111.5	2123.6	2037.0	1904.8	1749.4	1555.8	1444.1	1447.4	1517.6	1542.3
32.5°	2423.3	2444.2	2340.0	2172.4	1960.2	1724.7	1569.8	1544.2	1600.9	1621.4
35°	2732.3	2756.0	2669.5	2484.2	2239.9	1923.9	1701.0	1655.4	1711.7	1734.0
37.5°	2999.4	3031.1	2986.4	2825.4	2539.2	2164.1	1872.3	1786.2	1848.1	1876.0
40°	3210.3	3258.7	3255.4	3154.9	2891.9	2455.4	2089.6	1947.7	2017.5	2047.7
42.5°	3381.5	3423.4	3459.7	3454.6	3260.0	2786.3	2345.1	2157.5	2210.6	2245.5
45°	3499.7	3544.4	3622.6	3706.8	3614.2	3140.4	2637.8	2406.5	2454.9	2507.5
47.5°	3605.4	3656.1	3757.6	3891.1	3914.9	3496.0	2958.5	2696.5	2740.7	2795.1
50°	3614.7	3658.4	3815.7	4005.1	4128.5	3837.6	3302.9	3021.8	3063.2	3121.4
52.5°	3389.9	3458.8	3733.3	4001.9	4226.7	4123.3	3644.9	3360.1	3406.6	3476.5
55°	2631.3	2732.3	3491.8	3877.2	4191.8	4308.1	3970.2	3719.9	3779.4	3852.5
57.5°	2266.4	2310.7	2771.9	3650.0	4032.6	4356.0	4244.8	4083.3	4179.2	4259.2
60°	2037.0	2073.8	2346.5	3296.8	3823.2	4280.2	4457.0	4422.1	4587.8	4683.2
62.5°	1791.3	1826.2	2074.2	2752.8	3555.1	4154.1	4591.1	4734.9	5006.7	5110.9
65°	1547.4	1577.2	1815.0	2313.0	3214.4	4027.9	4660.4	5005.3	5394.3	5502.3
67.5°	1275.6	1300.3	1525.1	1951.4	2800.2	3855.3	4694.8	5217.9	5731.7	5824.3
70°	920.5	939.6	1171.8	1543.2	2280.4	3558.4	4680.9	5368.7	5906.7	5980.7
72.5°	435.1	452.4	725.1	1002.0	1610.7	2980.4	4398.4	5249.1	5728.9	5692.2
75°	232.2	247.1	416.5	549.6	850.7	2043.1	3599.3	4521.7	4810.7	4632.0
77.5°	157.3	168.9	257.8	330.0	388.6	969.9	2313.4	3130.7	3012.0	2716.9
80°	124.7	136.8	211.3	223.4	188.0	350.4	955.9	1449.2	1041.1	832.6
82.5°	95.9	109.4	177.8	162.0	102.4	143.8	278.3	458.4	266.7	202.9
85°	58.6	73.1	139.6	103.3	57.7	65.6	94.5	127.5	81.4	67.9
87.5°	29.8	41.9	70.7	37.7	26.1	15.4	25.1	25.1	21.4	18.6
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°
1267.7	0°	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7
1261.2	2.5°	1272.4	1281.7	1297.5	1312.4	1324.0	1335.2	1346.4	1352.4	1354.3	1361.7
1268.2	5°	1287.3	1304.5	1335.2	1364.1	1382.2	1393.4	1401.3	1405.9	1406.9	1409.2
1287.3	7.5°	1314.7	1342.2	1385.0	1413.9	1427.3	1426.4	1423.2	1411.5	1406.9	1402.7
1315.2	10°	1353.4	1389.7	1442.2	1462.3	1453.9	1431.5	1402.7	1368.7	1352.9	1337.5
1353.4	12.5°	1401.3	1447.4	1499.0	1498.1	1456.7	1399.4	1332.4	1280.3	1247.2	1223.5
1400.4	15°	1459.5	1512.5	1552.1	1520.4	1429.7	1326.8	1228.6	1160.7	1130.9	1104.8
1447.8	17.5°	1519.5	1576.3	1594.4	1513.4	1361.7	1219.3	1108.1	1054.6	1025.3	1011.3
1499.0	20°	1578.1	1634.4	1619.6	1473.4	1258.4	1097.4	998.3	968.9	962.9	966.1
1548.8	22.5°	1640.0	1690.3	1624.7	1396.2	1126.7	972.7	918.2	919.1	932.6	942.4
1600.9	25°	1703.3	1737.3	1611.2	1284.5	985.2	881.0	867.5	882.4	908.9	928.0
1659.6	27.5°	1764.3	1779.2	1581.9	1146.3	863.8	815.4	817.7	848.4	888.4	915.0
1730.8	30°	1833.2	1816.4	1525.5	990.8	779.5	759.0	778.6	814.4	854.5	878.2
1820.6	32.5°	1910.9	1848.5	1436.2	847.0	720.0	713.9	746.0	769.3	787.0	794.0
1939.7	35°	2007.7	1893.7	1321.7	746.0	666.4	680.9	711.6	699.9	693.0	689.2
2099.8	37.5°	2133.3	1954.6	1187.7	680.4	623.2	657.1	669.7	633.4	605.9	592.4
2293.9	40°	2284.6	2044.0	1058.8	629.7	595.7	636.7	614.8	571.0	536.1	517.0
2512.2	42.5°	2452.6	2137.5	950.3	591.5	580.3	619.9	574.3	522.2	465.9	459.8
2772.3	45°	2629.0	2233.9	876.3	562.2	572.9	605.5	551.0	466.8	426.8	451.4
3033.4	47.5°	2805.4	2322.3	831.6	540.3	569.2	589.2	530.5	436.1	407.7	443.5
3313.1	50°	3001.8	2401.4	811.6	524.5	565.0	582.7	499.8	428.2	387.7	411.4
3602.6	52.5°	3196.8	2462.8	796.7	508.7	558.9	577.5	484.9	418.9	363.5	364.9
3893.9	55°	3391.3	2502.9	780.5	487.7	545.4	566.4	483.5	408.6	345.3	338.8
4202.0	57.5°	3598.9	2525.7	760.4	464.5	522.2	538.0	482.1	400.7	339.7	329.0
4517.1	60°	3810.1	2559.2	734.4	436.1	491.0	504.0	478.9	397.9	336.5	318.3
4814.0	62.5°	3999.6	2570.8	703.2	409.1	451.0	470.5	471.9	395.6	327.6	296.5
5060.6	65°	4123.8	2520.5	648.8	378.4	407.7	436.1	458.4	387.7	311.8	280.6
5182.6	67.5°	4118.7	2377.2	563.6	338.8	365.8	397.9	438.9	374.2	292.7	261.1
5090.4	70°	3927.0	2094.3	455.6	292.7	319.7	357.0	413.7	354.2	269.9	239.7
4526.4	72.5°	3368.0	1639.1	330.9	238.7	266.2	314.6	381.2	330.0	246.7	220.6
3345.2	75°	2406.1	1037.4	224.3	183.4	207.1	266.7	340.7	301.6	225.2	221.5
1675.4	77.5°	1229.1	495.6	148.5	134.0	144.3	210.4	286.2	269.5	228.5	182.9
476.6	80°	399.8	182.9	93.5	91.2	95.9	140.1	221.5	221.1	173.1	124.3
115.4	82.5°	127.5	78.7	61.0	58.6	56.3	88.0	154.5	175.0	116.8	78.7
41.4	85°	50.7	47.0	35.8	33.0	23.7	41.4	81.0	116.3	87.0	56.8
10.7	87.5°	18.6	18.6	9.8	7.0	5.1	14.0	21.9	34.9	49.8	29.3
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>
1267.7
1365.9
1412.9
1403.6
1332.9
1217.9
1102.0
1015.5
964.8
944.7
933.1
921.5
883.8
797.7
693.0
595.7
518.4
465.9
464.5
460.3
429.1
374.6
343.5
330.4
319.7
296.5
280.6
262.5
242.5
219.2
209.0
162.9
109.8
78.2
58.2
28.9
0.0

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