

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: P946213

Luminaire Tested: **GALN-SB1D-935-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946213  
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-935-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

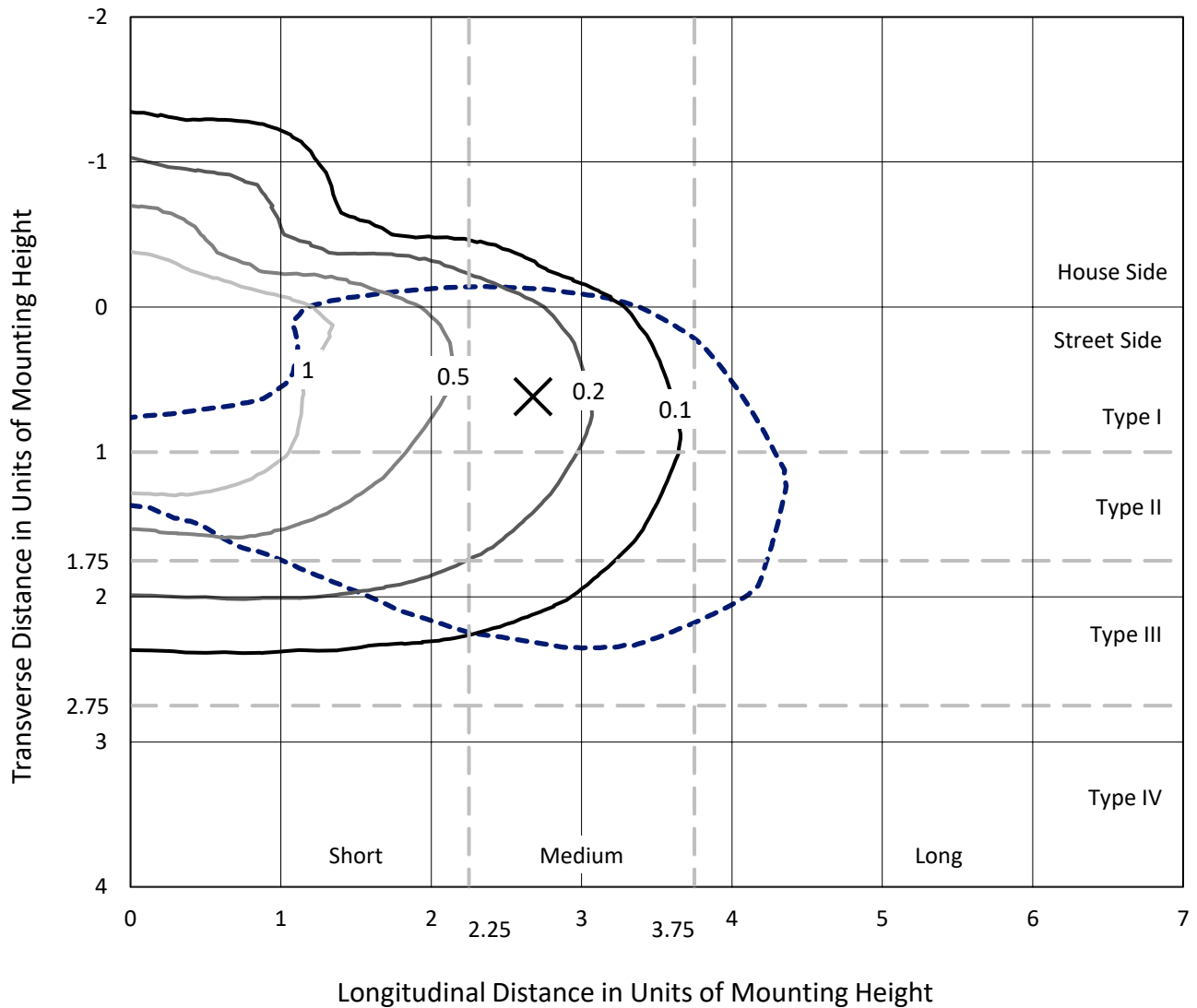
Lumens per Lamp: N/A  
Luminaire Lumens: 7270 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

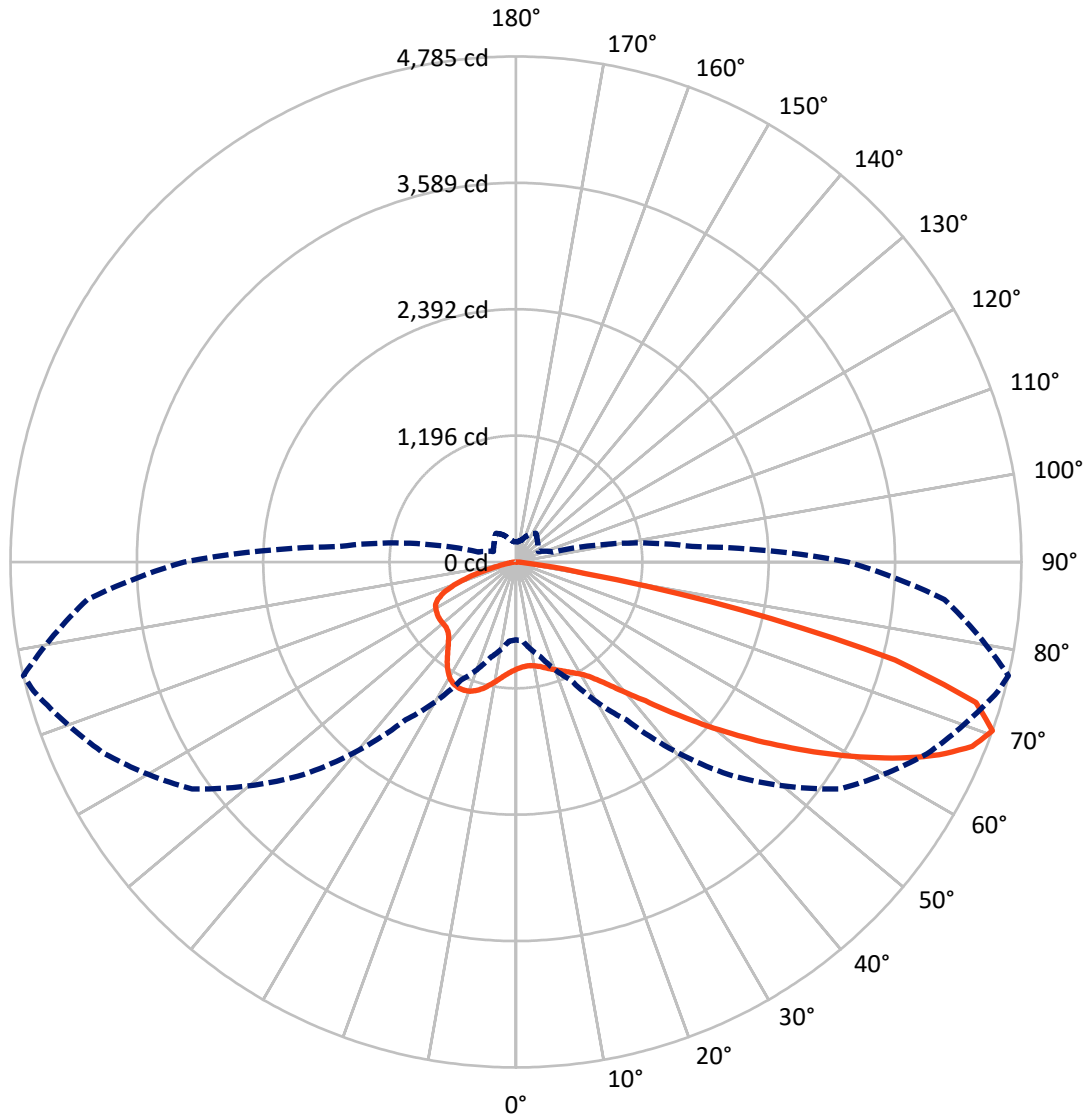
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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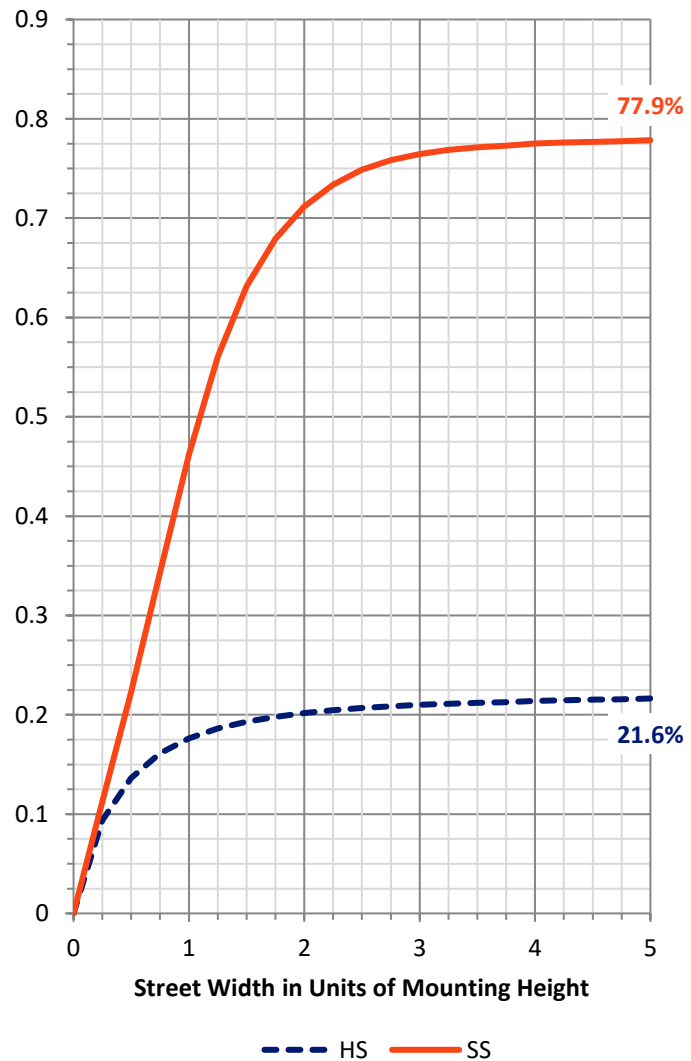
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1592.0	0.0	1592.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	5678.0	0.0	5678.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	7270.0	0.0	7270.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	1.3
10°-20°	279.2	3.8
20°-30°	477.4	6.6
30°-40°	767.7	10.6
40°-50°	1198.7	16.5
50°-60°	1601.1	22.0
60°-70°	1706.5	23.5
70°-80°	1050.5	14.5
80°-90°	92.1	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°	7270.0	100.0
0°-180°	7270.0	100.0

**Coefficient of Utilization**



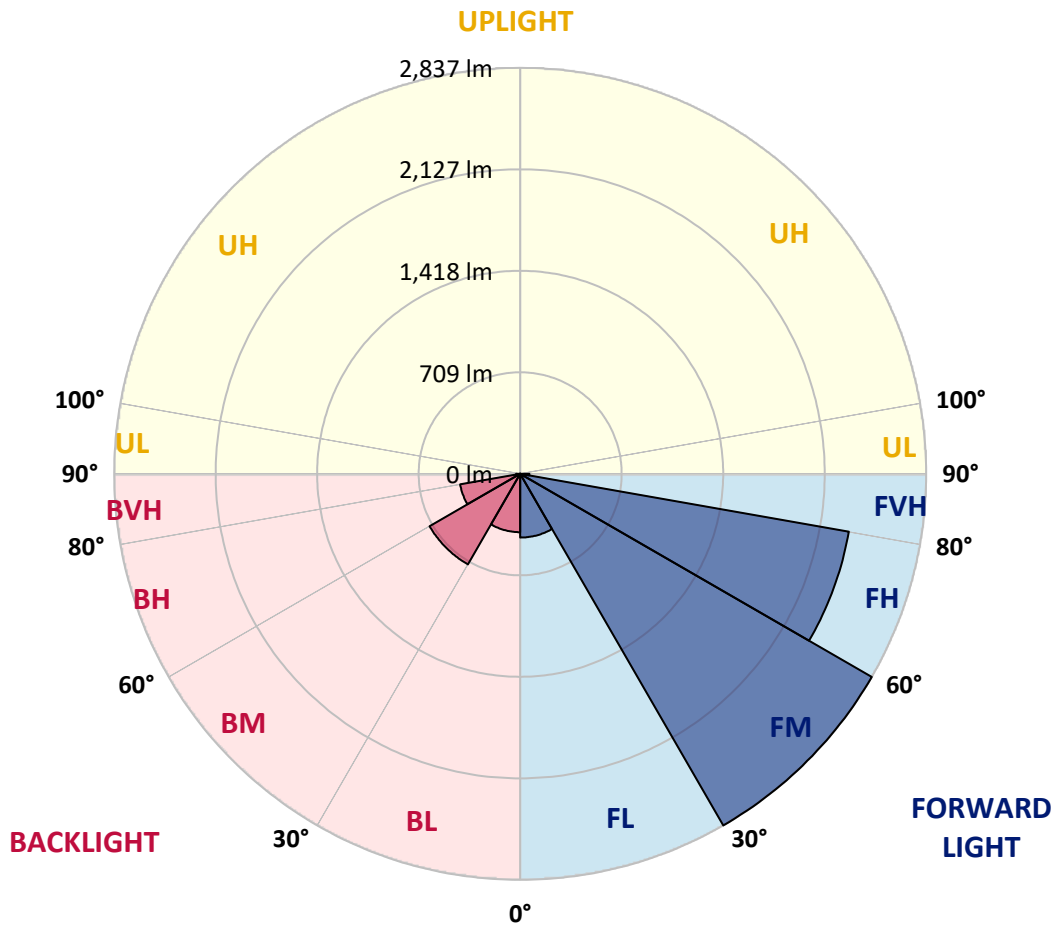
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.4	6.1			
FM (30°-60°)	2836.6	39.0			
FH (60°-80°)	2331.6	32.1			G2/5000
FVH (80°-90°)	64.4	0.9			G1/100
BL (0°-30°)	407.9	5.6	B1/500		
BM (30°-60°)	730.9	10.1	B1/1000		
BH (60°-80°)	425.5	5.9	B1/500		G1/500
BVH (80°-90°)	27.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2
2.5°	934.9	934.6	939.4	940.9	949.8	956.1	968.1	980.7	997.1	999.0
5°	880.9	880.9	886.5	892.5	904.0	916.7	934.9	956.9	985.2	989.7
7.5°	835.1	838.1	843.0	854.5	867.9	886.1	914.1	945.3	982.6	989.7
10°	798.3	801.6	807.6	816.9	837.0	862.3	898.8	939.0	988.9	1000.1
12.5°	786.7	790.1	793.4	800.5	819.1	848.9	892.5	942.0	1004.2	1015.3
15°	813.5	817.6	815.0	813.2	822.9	850.0	895.5	952.8	1023.2	1039.2
17.5°	875.4	876.8	870.9	853.4	851.9	866.4	909.6	967.7	1047.0	1064.5
20°	975.1	972.5	960.2	925.6	905.9	902.9	933.8	990.0	1071.6	1090.2
22.5°	1110.7	1107.7	1083.1	1028.4	984.4	955.4	968.8	1019.1	1099.1	1120.0
25°	1279.7	1275.6	1239.5	1165.0	1096.9	1025.0	1016.5	1057.4	1133.0	1152.4
27.5°	1477.0	1473.7	1434.6	1336.3	1238.0	1120.3	1075.7	1102.5	1168.4	1190.3
30°	1689.3	1698.9	1629.7	1524.0	1399.6	1244.7	1155.3	1158.0	1214.2	1233.9
32.5°	1938.7	1955.5	1872.1	1738.0	1568.3	1379.9	1255.9	1235.4	1280.8	1297.2
35°	2186.0	2204.9	2135.7	1987.5	1792.0	1539.2	1360.9	1324.4	1369.4	1387.3
37.5°	2399.7	2425.0	2389.3	2260.4	2031.4	1731.3	1497.9	1429.0	1478.5	1500.9
40°	2568.3	2607.1	2604.5	2524.0	2313.7	1964.4	1671.8	1558.2	1614.1	1638.3
42.5°	2705.4	2738.9	2767.9	2763.8	2608.2	2229.1	1876.2	1726.1	1768.6	1796.5
45°	2799.9	2835.7	2898.2	2965.6	2891.5	2512.5	2110.4	1925.3	1964.0	2006.1
47.5°	2884.5	2925.0	3006.2	3113.1	3132.1	2797.0	2366.9	2157.3	2192.7	2236.2
50°	2891.9	2926.9	3052.7	3204.3	3303.0	3070.2	2642.4	2417.5	2450.7	2497.2
52.5°	2712.1	2767.2	2986.8	3201.7	3381.5	3298.9	2916.1	2688.2	2725.5	2781.3
55°	2105.2	2186.0	2793.6	3101.9	3353.6	3446.7	3176.4	2976.0	3023.7	3082.2
57.5°	1813.3	1848.6	2217.6	2920.2	3226.3	3485.0	3396.0	3266.8	3343.5	3407.6
60°	1629.7	1659.1	1877.3	2637.6	3058.7	3424.3	3565.8	3537.9	3670.4	3746.8
62.5°	1433.1	1461.0	1659.5	2202.3	2844.2	3323.4	3673.1	3788.1	4005.5	4088.9
65°	1238.0	1261.8	1452.1	1850.5	2571.7	3222.5	3728.5	4004.4	4315.7	4402.1
67.5°	1020.6	1040.3	1220.1	1561.2	2240.3	3084.4	3756.1	4174.6	4585.6	4659.7
70°	736.5	751.7	937.5	1234.7	1824.4	2846.8	3744.9	4295.2	4725.6	4784.8
72.5°	348.1	361.9	580.1	801.6	1288.6	2384.4	3518.9	4199.5	4583.4	4554.0
75°	185.8	197.7	333.2	439.7	680.6	1634.5	2879.6	3617.6	3848.8	3705.8
77.5°	125.8	135.2	206.3	264.0	310.9	775.9	1850.9	2504.7	2409.7	2173.7
80°	99.8	109.5	169.0	178.7	150.4	280.4	764.8	1159.4	832.9	666.1
82.5°	76.7	87.5	142.2	129.6	81.9	115.1	222.7	366.7	213.3	162.3
85°	46.9	58.5	111.7	82.7	46.2	52.5	75.6	102.0	65.2	54.4
87.5°	23.8	33.5	56.6	30.2	20.9	12.3	20.1	20.1	17.1	14.9
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°
1014.2	0°	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2
1009.0	2.5°	1018.0	1025.4	1038.1	1050.0	1059.3	1068.2	1077.2	1082.0	1083.5	1089.4
1014.6	5°	1029.9	1043.6	1068.2	1091.3	1105.8	1114.8	1121.1	1124.8	1125.6	1127.4
1029.9	7.5°	1051.8	1073.8	1108.1	1131.1	1141.9	1141.2	1138.6	1129.3	1125.6	1122.2
1052.2	10°	1082.7	1111.8	1153.9	1169.9	1163.2	1145.3	1122.2	1095.0	1082.4	1070.1
1082.7	12.5°	1121.1	1158.0	1199.3	1198.5	1165.4	1119.6	1066.0	1024.3	997.8	978.9
1120.3	15°	1167.6	1210.1	1241.7	1216.4	1143.8	1061.5	983.0	928.6	904.8	883.9
1158.3	17.5°	1215.7	1261.1	1275.6	1210.8	1089.4	975.5	886.5	843.7	820.2	809.1
1199.3	20°	1262.6	1307.6	1295.7	1178.8	1006.8	878.0	798.7	775.2	770.4	773.0
1239.1	22.5°	1312.1	1352.3	1299.8	1117.0	901.4	778.2	734.6	735.4	746.2	754.0
1280.8	25°	1362.7	1389.9	1289.0	1027.6	788.2	704.8	694.0	705.9	727.2	742.4
1327.7	27.5°	1411.5	1423.4	1265.6	917.1	691.0	652.3	654.2	678.8	710.8	732.0
1384.7	30°	1466.6	1453.2	1220.5	792.7	623.7	607.3	622.9	651.6	683.6	702.6
1456.6	32.5°	1528.8	1478.9	1149.0	677.6	576.0	571.2	596.8	615.5	629.6	635.2
1551.9	35°	1606.2	1515.0	1057.4	596.8	533.2	544.7	569.3	560.0	554.4	551.4
1680.0	37.5°	1706.8	1563.8	950.2	544.3	498.6	525.7	535.8	506.7	484.8	474.0
1835.2	40°	1827.8	1635.3	847.1	503.8	476.6	509.3	491.9	456.9	428.9	413.7
2009.8	42.5°	1962.2	1710.1	760.3	473.2	464.3	495.9	459.5	417.8	372.7	367.9
2218.0	45°	2103.3	1787.2	701.1	449.8	458.3	484.4	440.8	373.4	341.4	361.2
2426.9	47.5°	2244.4	1857.9	665.4	432.3	455.4	471.4	424.5	348.9	326.2	354.8
2650.6	50°	2401.5	1921.2	649.3	419.6	452.0	466.2	399.9	342.5	310.2	329.1
2882.2	52.5°	2557.5	1970.4	637.4	407.0	447.2	462.1	388.0	335.1	290.8	291.9
3115.3	55°	2713.2	2002.4	624.4	390.2	436.4	453.1	386.9	326.9	276.3	271.1
3361.8	57.5°	2879.2	2020.6	608.4	371.6	417.8	430.4	385.7	320.6	271.8	263.2
3613.9	60°	3048.3	2047.5	587.5	348.9	392.8	403.2	383.1	318.3	269.2	254.7
3851.4	62.5°	3199.8	2056.8	562.6	327.3	360.8	376.4	377.5	316.5	262.1	237.2
4048.7	65°	3299.2	2016.5	519.0	302.7	326.2	348.9	366.7	310.2	249.5	224.5
4146.3	67.5°	3295.1	1901.9	450.9	271.1	292.7	318.3	351.1	299.4	234.2	208.9
4072.6	70°	3141.7	1675.5	364.5	234.2	255.8	285.6	331.0	283.3	216.0	191.8
3621.3	72.5°	2694.6	1311.4	264.7	191.0	213.0	251.7	304.9	264.0	197.3	176.5
2676.3	75°	1925.0	829.9	179.5	146.7	165.7	213.3	272.5	241.3	180.2	177.2
1340.4	77.5°	983.3	396.5	118.8	107.2	115.4	168.3	229.0	215.6	182.8	146.3
381.3	80°	319.8	146.3	74.8	73.0	76.7	112.1	177.2	176.9	138.5	99.4
92.3	82.5°	102.0	62.9	48.8	46.9	45.1	70.4	123.6	140.0	93.5	62.9
33.1	85°	40.6	37.6	28.7	26.4	19.0	33.1	64.8	93.1	69.6	45.4
8.6	87.5°	14.9	14.9	7.8	5.6	4.1	11.2	17.5	27.9	39.8	23.5
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>
1014.2
1092.8
1130.4
1123.0
1066.4
974.4
881.7
812.4
771.8
755.8
746.5
737.2
707.1
638.2
554.4
476.6
414.8
372.7
371.6
368.2
343.3
299.7
274.8
264.4
255.8
237.2
224.5
210.0
194.0
175.4
167.2
130.3
87.9
62.6
46.5
23.1
0.0

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