

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: P946064

Luminaire Tested: **GALN-SB1D-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8970 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

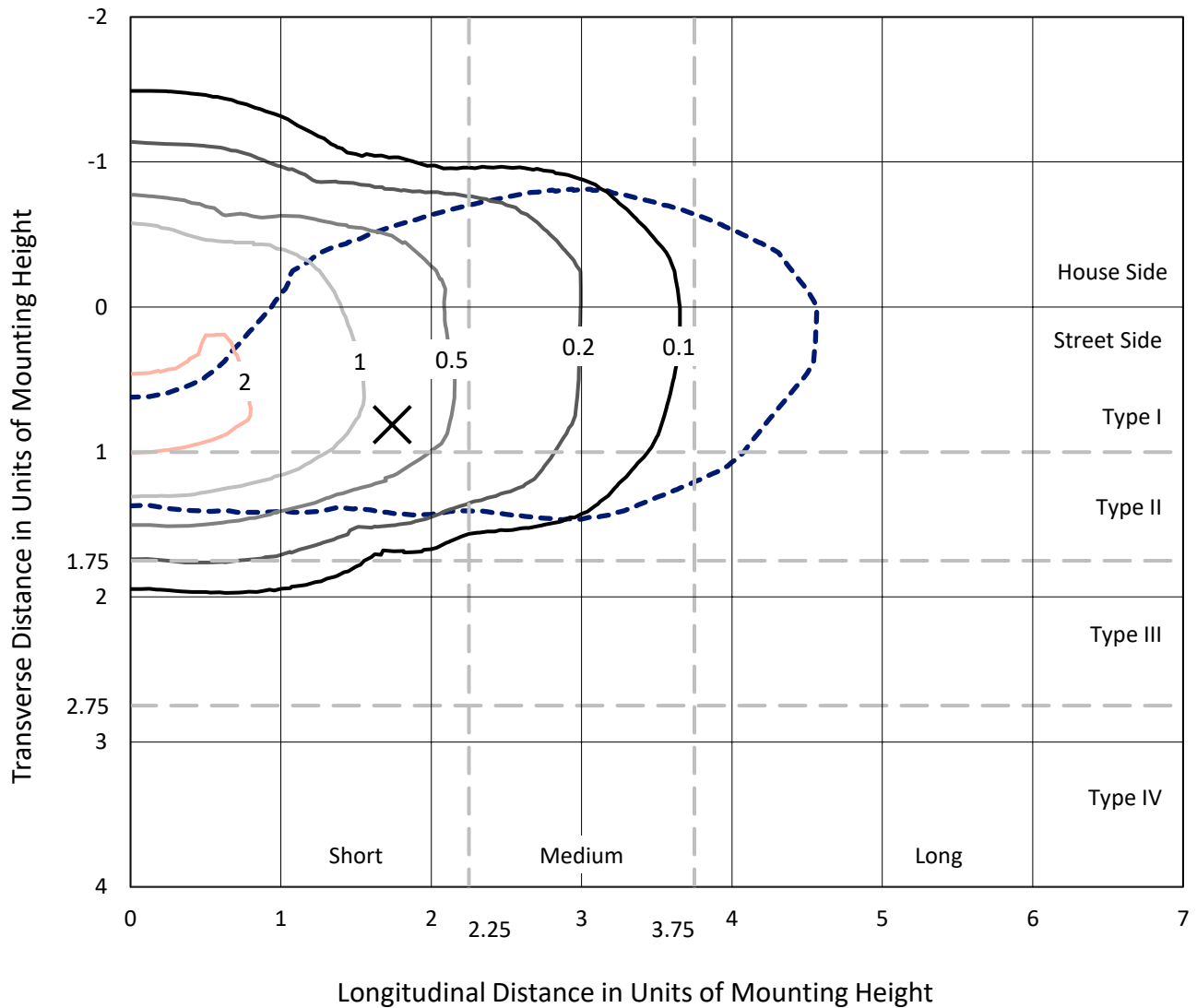
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

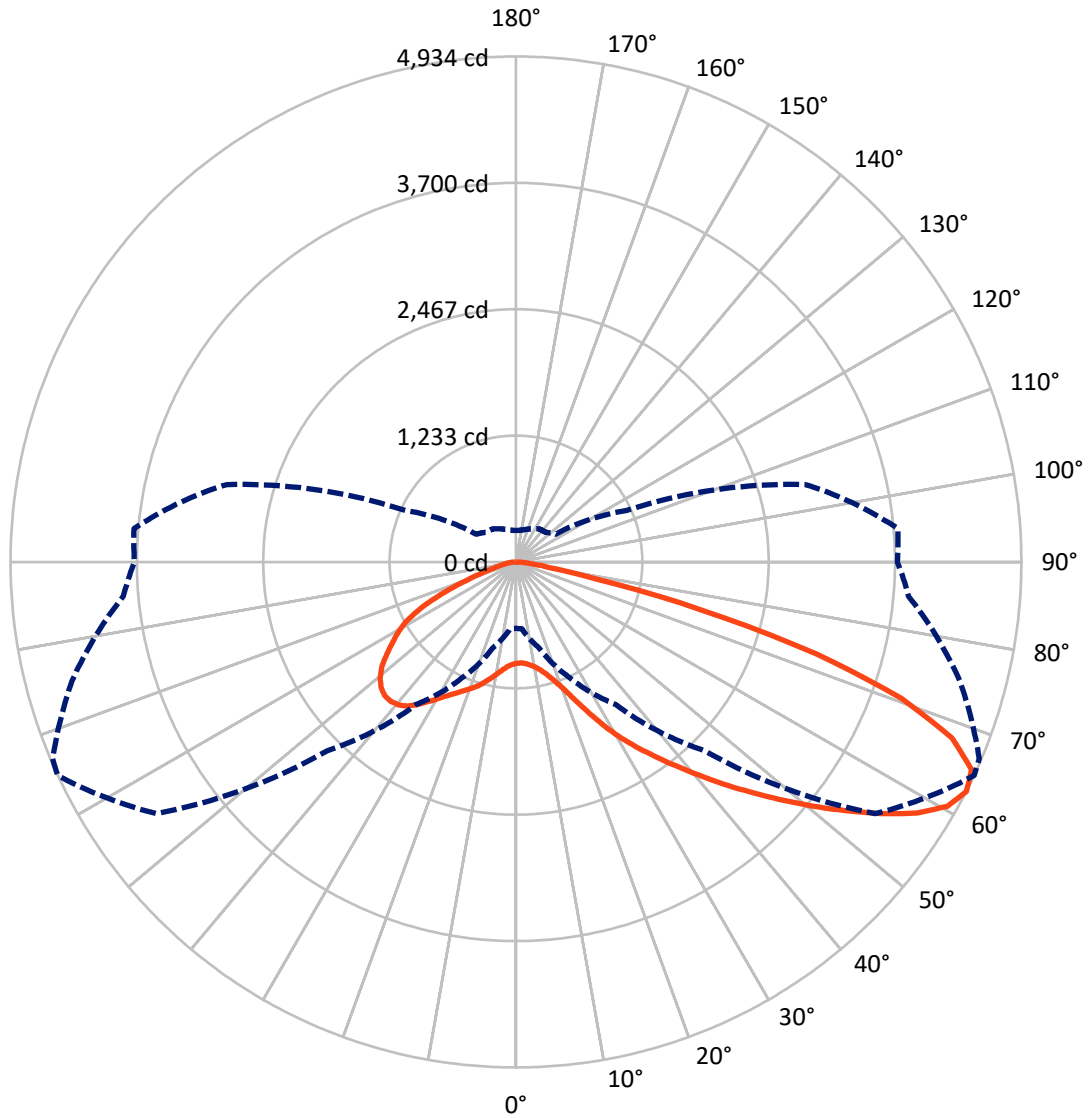
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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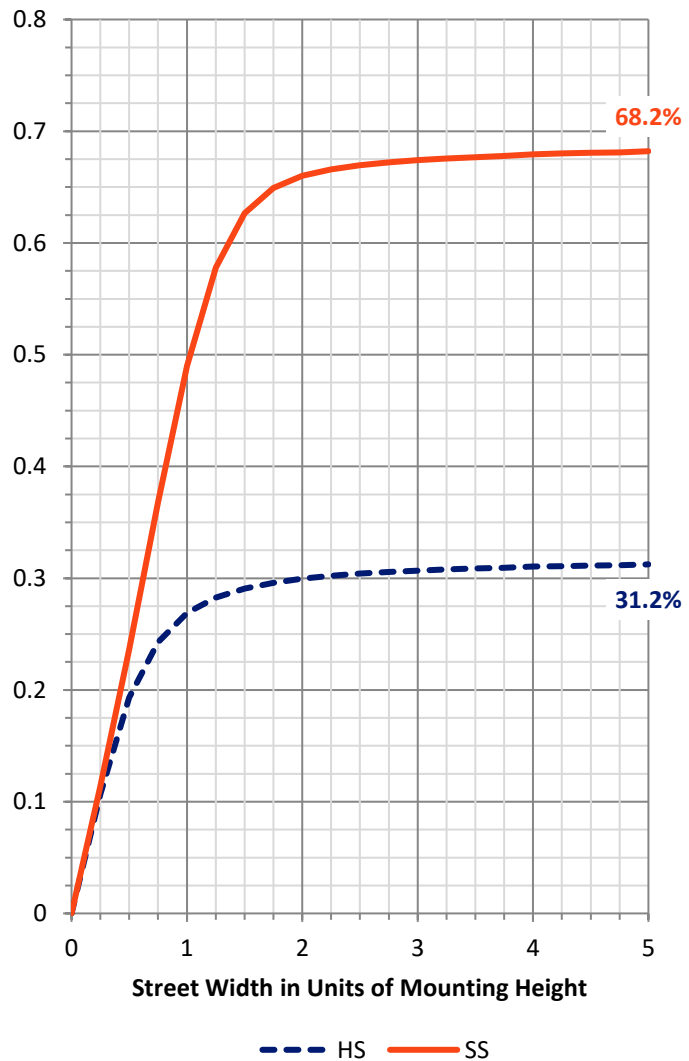
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2830.5	0.0	2830.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6139.5	0.0	6139.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	8970.0	0.0	8970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.1
10°-20°	334.2	3.7
20°-30°	677.6	7.6
30°-40°	1172.6	13.1
40°-50°	1774.5	19.8
50°-60°	2080.4	23.2
60°-70°	1744.2	19.4
70°-80°	962.9	10.7
80°-90°	125.1	1.4
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°	8970.0	100.0
0°-180°	8970.0	100.0



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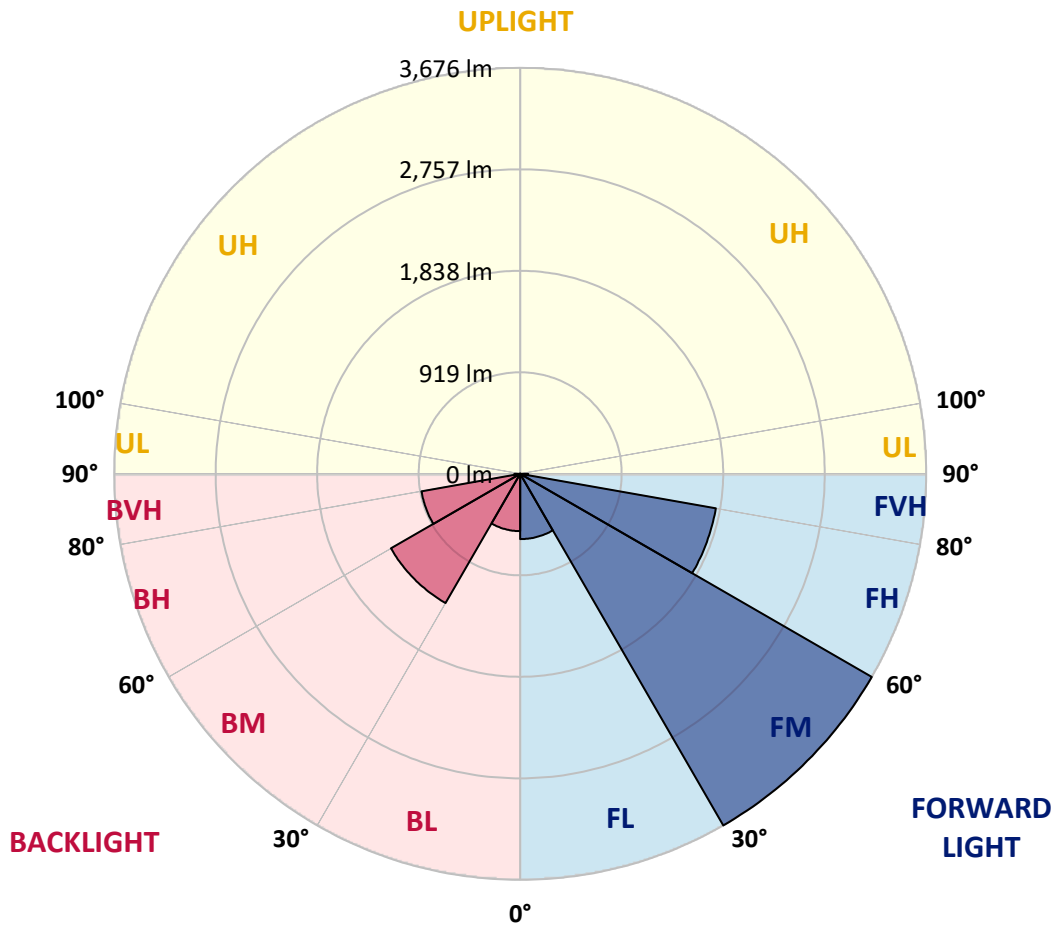
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.2	6.6			
FM (30°-60°)	3676.2	41.0			
FH (60°-80°)	1799.1	20.1			G1/1800
FVH (80°-90°)	72.9	0.8			G1/100
BL (0°-30°)	519.1	5.8	B2/1000		
BM (30°-60°)	1351.3	15.1	B2/2500		
BH (60°-80°)	908.0	10.1	B2/1000		G2/1000
BVH (80°-90°)	52.2	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5
2.5°	981.9	979.1	981.5	981.5	982.4	981.9	985.2	986.1	987.5	990.3
5°	972.2	971.7	975.9	979.6	983.3	986.6	990.8	996.8	997.8	1001.0
7.5°	968.9	966.1	972.6	977.3	986.1	994.0	1005.2	1015.4	1019.6	1021.0
10°	994.0	989.4	995.4	998.2	1005.7	1013.6	1026.6	1042.9	1047.6	1053.1
12.5°	1036.9	1031.7	1040.6	1044.8	1051.7	1058.7	1067.6	1083.4	1085.7	1096.0
15°	1095.5	1089.4	1095.0	1100.1	1111.8	1118.3	1127.1	1142.5	1142.5	1150.4
17.5°	1175.1	1167.2	1171.3	1173.2	1180.7	1190.4	1205.3	1218.8	1225.8	1223.0
20°	1293.7	1284.0	1284.0	1274.7	1271.9	1279.8	1299.3	1317.9	1325.4	1311.0
22.5°	1472.0	1458.0	1450.1	1418.5	1405.9	1406.8	1426.4	1449.2	1455.2	1429.6
25°	1698.6	1676.7	1666.0	1619.5	1591.1	1566.5	1581.8	1611.1	1619.5	1587.9
27.5°	1925.3	1926.6	1916.4	1860.6	1813.6	1768.4	1760.5	1791.2	1800.1	1764.2
30°	2243.1	2210.1	2190.5	2123.5	2056.5	1993.2	1960.6	1973.2	1975.5	1932.7
32.5°	2517.2	2508.8	2466.9	2408.3	2322.2	2223.1	2168.6	2148.6	2144.9	2083.9
35°	2829.5	2824.8	2780.6	2710.8	2617.7	2480.0	2381.8	2324.5	2319.9	2234.3
37.5°	3146.9	3146.9	3103.6	3027.3	2930.9	2758.7	2609.4	2518.6	2503.7	2392.0
40°	3400.0	3384.7	3392.6	3360.5	3250.2	3067.3	2862.1	2730.4	2710.3	2576.3
42.5°	3543.8	3538.7	3586.2	3622.0	3576.9	3430.7	3140.3	2959.8	2931.9	2779.2
45°	3575.9	3570.4	3655.1	3786.3	3849.6	3789.5	3442.8	3201.3	3167.3	2991.4
47.5°	3501.9	3490.8	3615.0	3822.1	4025.0	4130.7	3770.5	3463.3	3414.0	3198.1
50°	3279.5	3268.8	3456.8	3731.8	4084.1	4362.4	4126.0	3741.1	3665.8	3419.6
52.5°	2796.0	2801.1	3095.7	3473.6	4006.4	4506.7	4432.2	4033.9	3943.1	3646.2
55°	2178.0	2189.1	2551.2	2967.2	3695.5	4484.8	4641.2	4335.4	4245.1	3859.3
57.5°	1559.5	1608.8	1948.1	2359.9	3098.5	4138.1	4686.8	4622.1	4534.6	4092.0
60°	1010.8	1019.6	1368.7	1783.8	2359.4	3522.0	4594.2	4839.4	4771.0	4329.4
62.5°	647.8	653.9	866.5	1247.7	1698.2	2605.6	4282.4	4933.9	4913.0	4486.2
65°	476.1	471.4	582.2	824.6	1143.9	1606.9	3676.9	4888.3	4929.7	4584.4
67.5°	397.4	390.9	445.4	571.0	842.8	912.6	2720.6	4591.8	4743.6	4573.2
70°	362.1	356.5	389.5	424.0	657.6	611.0	1371.5	3992.0	4225.6	4446.2
72.5°	306.7	296.9	342.1	376.5	511.4	468.6	566.8	3066.4	3351.2	4039.0
75°	237.8	231.3	269.9	331.3	384.4	365.8	358.3	1862.0	2172.8	3123.6
77.5°	188.5	179.6	215.0	258.3	345.8	276.0	261.1	801.8	1109.9	1994.1
80°	141.9	134.0	163.3	204.3	265.7	208.0	168.9	327.2	418.4	1010.3
82.5°	101.0	94.0	114.0	149.9	178.7	186.6	103.8	183.4	206.2	389.5
85°	64.7	60.5	76.3	94.0	113.6	120.1	63.3	95.9	105.2	160.6
87.5°	35.4	28.9	41.0	43.7	52.6	47.9	30.2	34.9	37.7	58.2
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°
988.5	0°	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5
990.3	2.5°	992.2	993.6	998.2	999.6	1002.9	1007.1	1009.9	1012.7	1012.7	1015.4
1005.2	5°	1005.7	1008.9	1018.7	1023.8	1032.2	1040.6	1045.7	1051.7	1055.5	1057.3
1028.9	7.5°	1031.7	1036.9	1050.8	1059.7	1074.1	1085.7	1093.6	1102.0	1103.9	1109.0
1062.0	10°	1067.1	1073.2	1089.0	1105.7	1122.9	1137.4	1144.8	1150.9	1153.2	1154.1
1104.3	12.5°	1107.6	1116.4	1136.9	1157.4	1175.5	1188.1	1190.0	1188.6	1182.1	1176.5
1156.5	15°	1157.4	1165.3	1188.1	1210.4	1228.1	1230.4	1218.8	1211.4	1203.5	1202.1
1214.6	17.5°	1217.0	1221.1	1242.1	1264.0	1265.4	1257.4	1240.2	1233.2	1225.8	1220.7
1290.5	20°	1286.3	1284.9	1299.8	1309.1	1299.3	1275.1	1249.1	1237.4	1230.0	1223.9
1383.6	22.5°	1369.1	1358.4	1356.6	1354.2	1328.2	1277.5	1242.1	1227.2	1215.6	1207.2
1513.4	25°	1489.7	1448.7	1420.3	1404.5	1345.9	1264.9	1219.7	1186.7	1164.8	1150.4
1672.1	27.5°	1640.4	1571.6	1499.9	1461.3	1345.9	1239.3	1165.8	1112.2	1076.4	1061.5
1825.7	30°	1784.2	1712.1	1606.5	1529.7	1342.6	1197.4	1078.7	1004.3	962.4	947.5
1956.9	32.5°	1907.1	1828.5	1719.6	1604.6	1334.7	1129.5	970.8	888.4	847.9	830.2
2086.7	35°	2021.1	1937.4	1833.1	1687.0	1313.8	1029.9	852.1	789.3	744.1	715.7
2218.9	37.5°	2137.9	2038.3	1940.6	1761.4	1276.1	913.5	760.9	707.4	654.3	616.2
2359.4	40°	2265.0	2145.8	2055.6	1805.7	1214.2	802.8	690.2	641.3	585.0	544.5
2521.4	42.5°	2413.4	2274.7	2183.5	1828.5	1129.5	724.1	644.1	596.1	543.1	510.1
2695.0	45°	2568.4	2416.7	2300.3	1828.0	1035.0	687.4	629.2	581.7	523.1	488.6
2873.2	47.5°	2730.8	2565.1	2401.3	1798.2	953.1	692.5	620.8	550.5	485.9	452.3
3053.3	50°	2893.7	2727.6	2499.1	1742.4	918.2	681.3	589.6	506.8	430.5	400.2
3222.3	52.5°	3055.2	2900.2	2583.3	1662.8	882.8	639.9	549.6	450.0	407.7	386.7
3396.8	55°	3217.6	3071.0	2675.0	1546.9	794.4	591.5	482.6	428.6	389.5	370.4
3567.6	57.5°	3380.5	3268.3	2762.0	1431.0	683.2	531.9	445.8	402.5	371.4	355.1
3710.4	60°	3549.9	3494.0	2851.8	1324.5	573.3	455.6	418.8	381.6	350.0	331.8
3847.7	62.5°	3724.4	3742.5	2922.1	1187.2	472.4	409.1	394.6	356.5	325.8	308.5
3961.3	65°	3900.3	3982.2	2968.2	996.8	383.0	364.9	368.6	329.0	297.8	282.9
4044.6	67.5°	4032.9	4154.9	2955.1	754.4	314.1	323.0	336.0	300.2	270.8	259.2
4031.1	70°	4047.8	4134.4	2826.7	516.6	262.9	282.0	299.7	271.8	241.5	233.2
3841.2	72.5°	3849.6	3855.2	2468.8	337.4	222.4	247.6	261.5	242.9	213.6	205.2
3360.5	75°	3329.8	3188.3	1812.6	222.4	186.1	212.7	225.7	212.7	184.3	186.1
2514.4	77.5°	2522.8	2258.0	1100.6	158.2	155.4	178.7	196.4	187.1	162.9	182.9
1264.4	80°	1299.8	1221.6	491.0	118.2	122.9	142.9	161.5	149.4	128.9	122.9
282.5	82.5°	297.8	346.2	193.6	84.7	88.9	102.8	123.3	112.2	92.6	78.2
117.7	85°	104.2	114.0	85.6	53.1	52.1	64.2	83.8	74.9	62.8	50.3
49.8	87.5°	33.0	43.3	32.1	21.4	22.3	28.9	38.6	35.4	29.3	19.1
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>
988.5
1015.4
1058.3
1107.1
1151.8
1176.5
1202.1
1221.1
1224.4
1210.0
1156.0
1069.0
956.3
839.1
725.1
626.4
552.4
516.6
494.2
457.0
402.1
386.7
368.6
352.3
330.4
308.1
282.5
259.7
233.6
204.8
179.6
161.0
112.2
77.3
53.1
20.0
0.0

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