

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: P947956

Luminaire Tested: **GALN-SB3A-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947956
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-SB3A-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8410 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

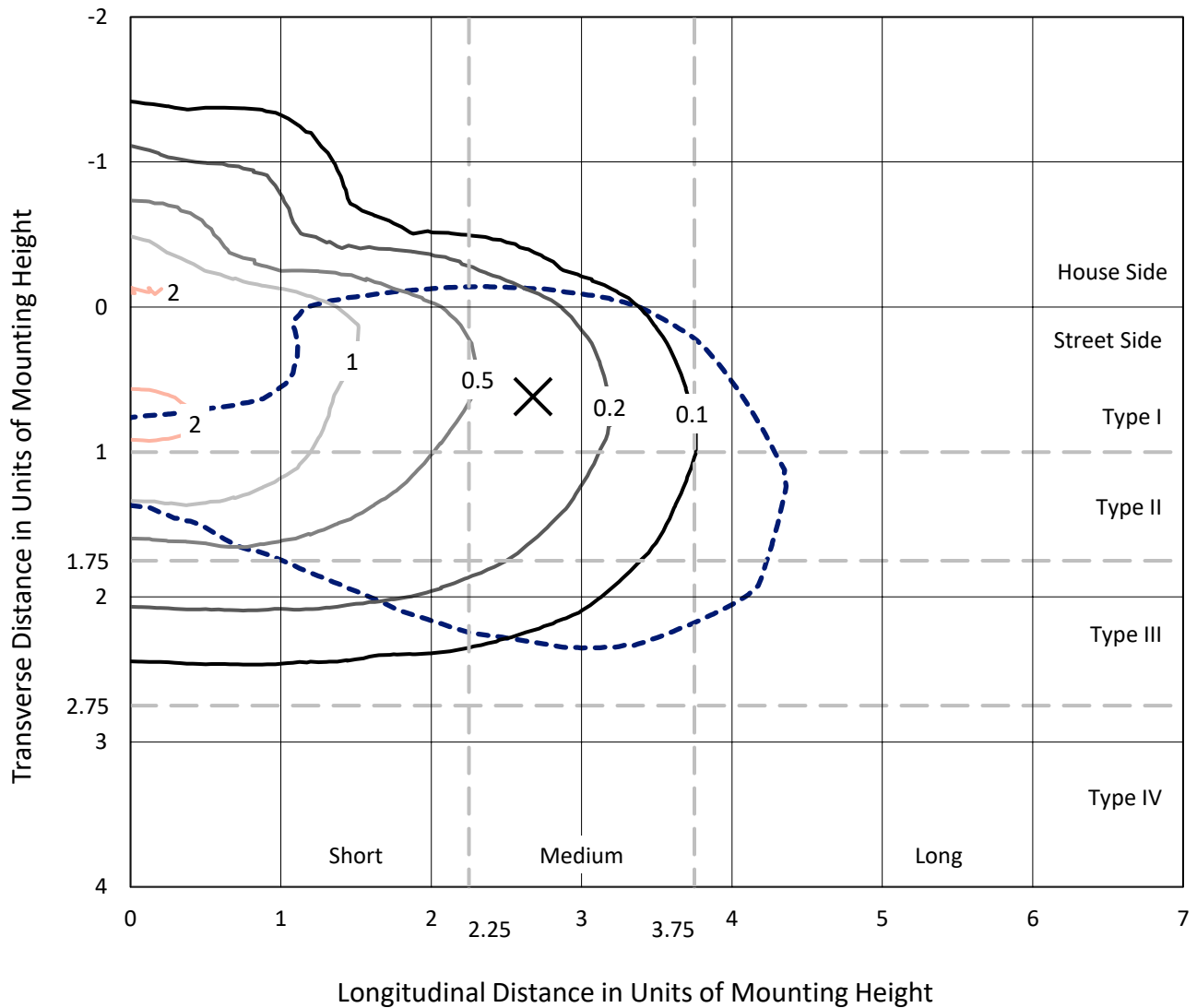
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

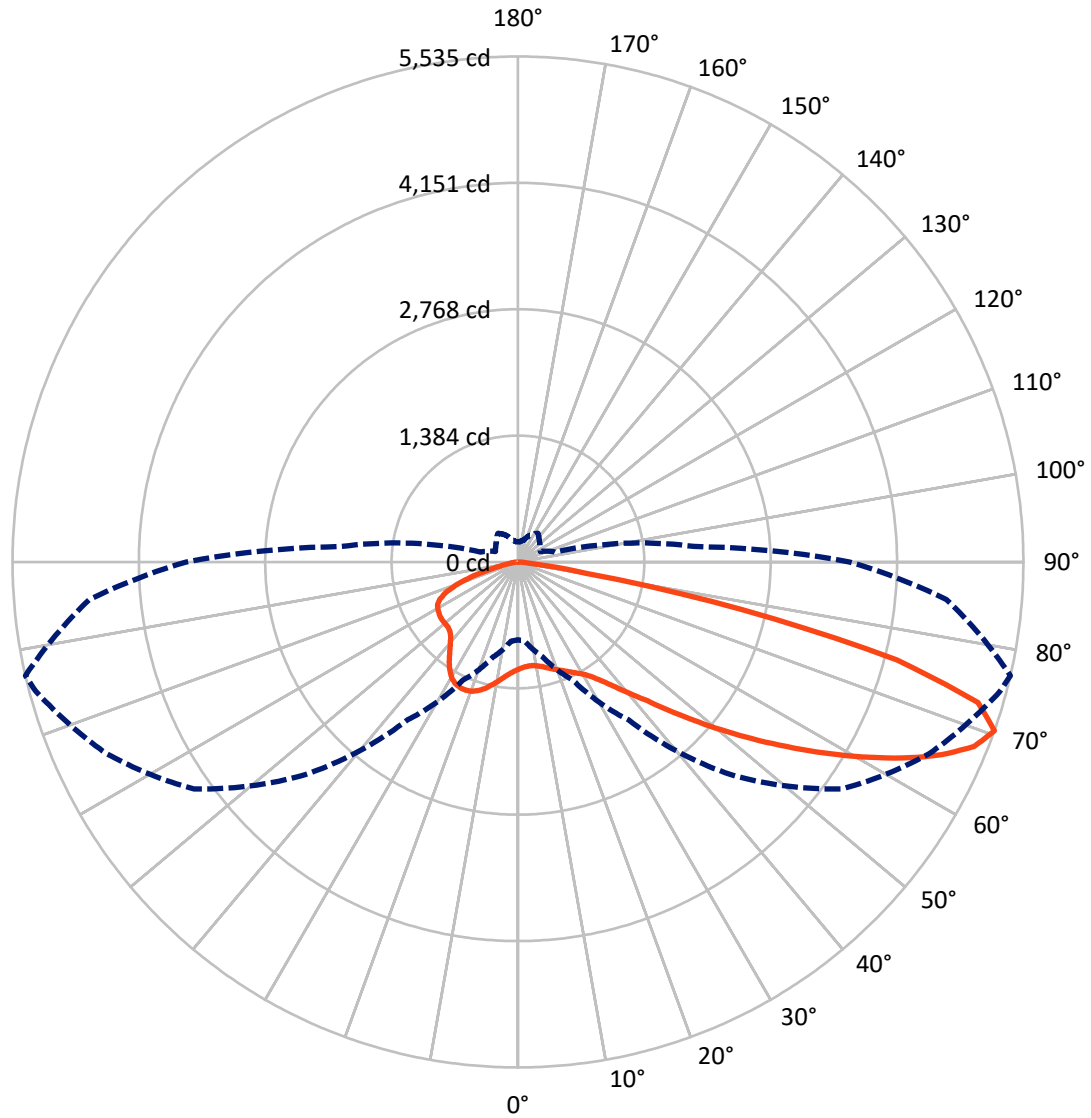
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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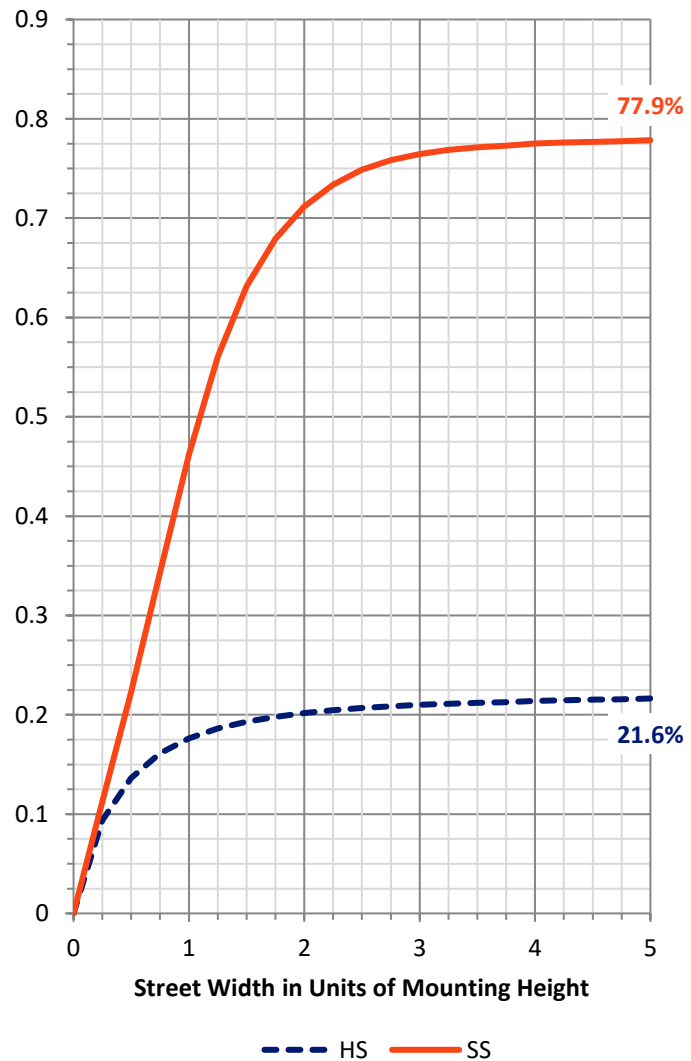
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1841.7	0.0	1841.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6568.3	0.0	6568.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	8410.0	0.0	8410.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	1.3
10°-20°	322.9	3.8
20°-30°	552.3	6.6
30°-40°	888.1	10.6
40°-50°	1386.6	16.5
50°-60°	1852.2	22.0
60°-70°	1974.2	23.5
70°-80°	1215.3	14.5
80°-90°	106.5	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°	8410.0	100.0
0°-180°	8410.0	100.0



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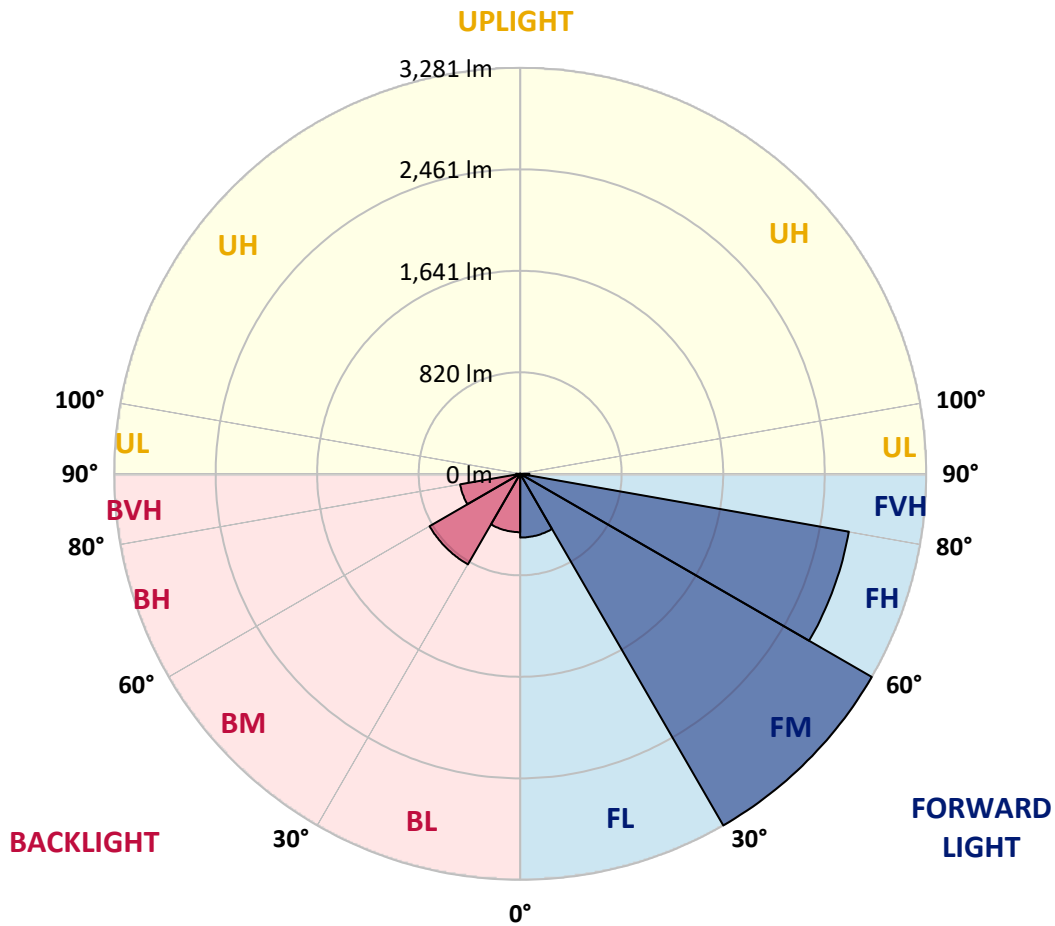
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.2	6.1			
FM (30°-60°)	3281.4	39.0			
FH (60°-80°)	2697.2	32.1			G2/5000
FVH (80°-90°)	74.5	0.9			G1/100
BL (0°-30°)	471.9	5.6	B1/500		
BM (30°-60°)	845.5	10.1	B1/1000		
BH (60°-80°)	492.2	5.9	B1/500		G1/500
BVH (80°-90°)	32.0	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°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1081.5	1081.1	1086.7	1088.4	1098.8	1106.1	1119.9	1134.5	1153.5	1155.6
5°	1019.1	1019.1	1025.5	1032.4	1045.8	1060.4	1081.5	1106.9	1139.7	1144.8
7.5°	966.1	969.5	975.1	988.5	1004.0	1025.1	1057.4	1093.6	1136.7	1144.8
10°	923.5	927.3	934.2	945.0	968.3	997.5	1039.7	1086.3	1144.0	1156.9
12.5°	910.1	914.0	917.9	926.0	947.6	982.0	1032.4	1089.7	1161.6	1174.6
15°	941.1	945.9	942.8	940.7	951.9	983.3	1035.9	1102.2	1183.6	1202.1
17.5°	1012.6	1014.3	1007.4	987.2	985.5	1002.3	1052.2	1119.4	1211.2	1231.4
20°	1128.0	1125.0	1110.8	1070.8	1047.9	1044.5	1080.2	1145.3	1239.6	1261.1
22.5°	1284.8	1281.4	1253.0	1189.6	1138.8	1105.2	1120.7	1178.9	1271.5	1295.6
25°	1480.4	1475.6	1433.9	1347.7	1268.9	1185.8	1175.9	1223.2	1310.7	1333.1
27.5°	1708.7	1704.8	1659.6	1545.8	1432.1	1296.0	1244.3	1275.4	1351.6	1377.0
30°	1954.2	1965.4	1885.2	1762.9	1619.1	1439.9	1336.5	1339.5	1404.6	1427.4
32.5°	2242.7	2262.1	2165.6	2010.6	1814.2	1596.2	1452.8	1429.1	1481.7	1500.6
35°	2528.7	2550.7	2470.6	2299.2	2073.0	1780.6	1574.3	1532.1	1584.2	1604.8
37.5°	2776.0	2805.3	2763.9	2614.9	2350.0	2002.8	1732.8	1653.1	1710.4	1736.2
40°	2971.1	3015.9	3012.9	2919.8	2676.5	2272.5	1933.9	1802.5	1867.2	1895.2
42.5°	3129.6	3168.4	3201.9	3197.2	3017.2	2578.7	2170.4	1996.8	2045.9	2078.2
45°	3239.0	3280.3	3352.7	3430.7	3344.9	2906.5	2441.3	2227.2	2272.0	2320.7
47.5°	3336.8	3383.7	3477.6	3601.2	3623.2	3235.5	2738.1	2495.6	2536.5	2586.9
50°	3345.4	3385.9	3531.4	3706.7	3820.9	3551.7	3056.8	2796.6	2835.0	2888.8
52.5°	3137.3	3201.1	3455.2	3703.7	3911.8	3816.1	3373.4	3109.8	3152.8	3217.5
55°	2435.3	2528.7	3231.7	3588.3	3879.5	3987.1	3674.4	3442.7	3497.8	3565.5
57.5°	2097.6	2138.5	2565.3	3378.1	3732.2	4031.5	3928.6	3779.1	3867.8	3941.9
60°	1885.2	1919.3	2171.7	3051.2	3538.3	3961.3	4125.0	4092.7	4246.0	4334.3
62.5°	1657.8	1690.1	1919.7	2547.7	3290.2	3844.6	4249.0	4382.1	4633.6	4730.1
65°	1432.1	1459.7	1679.8	2140.7	2975.0	3727.9	4313.2	4632.4	4992.4	5092.4
67.5°	1180.6	1203.4	1411.5	1806.0	2591.6	3568.1	4345.1	4829.2	5304.7	5390.4
70°	852.0	869.6	1084.5	1428.3	2110.5	3293.3	4332.1	4968.7	5466.7	5535.1
72.5°	402.7	418.7	671.1	927.3	1490.7	2758.3	4070.7	4858.1	5302.1	5268.1
75°	214.9	228.7	385.5	508.7	787.3	1890.8	3331.2	4184.8	4452.3	4286.9
77.5°	145.6	156.4	238.6	305.4	359.6	897.6	2141.1	2897.4	2787.6	2514.5
80°	115.4	126.6	195.5	206.7	174.0	324.3	884.7	1341.3	963.5	770.6
82.5°	88.7	101.2	164.5	149.9	94.8	133.1	257.6	424.3	246.8	187.8
85°	54.3	67.6	129.2	95.6	53.4	60.7	87.4	118.0	75.4	62.9
87.5°	27.6	38.8	65.5	34.9	24.1	14.2	23.3	23.3	19.8	17.2
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°
1173.3	0°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
1167.2	2.5°	1177.6	1186.2	1200.8	1214.6	1225.4	1235.7	1246.1	1251.7	1253.4	1260.3
1173.7	5°	1191.4	1207.3	1235.7	1262.4	1279.2	1289.6	1296.9	1301.2	1302.1	1304.2
1191.4	7.5°	1216.8	1242.2	1281.8	1308.5	1321.0	1320.1	1317.1	1306.4	1302.1	1298.2
1217.2	10°	1252.5	1286.1	1334.8	1353.3	1345.6	1324.9	1298.2	1266.7	1252.1	1237.9
1252.5	12.5°	1296.9	1339.5	1387.3	1386.5	1348.1	1295.2	1233.1	1184.9	1154.3	1132.4
1296.0	15°	1350.7	1399.8	1436.4	1407.2	1323.2	1228.0	1137.1	1074.2	1046.6	1022.5
1340.0	17.5°	1406.3	1458.8	1475.6	1400.7	1260.3	1128.5	1025.5	976.0	948.9	935.9
1387.3	20°	1460.6	1512.7	1498.9	1363.6	1164.7	1015.6	923.9	896.8	891.2	894.2
1433.4	22.5°	1517.8	1564.4	1503.6	1292.1	1042.8	900.2	849.8	850.7	863.2	872.2
1481.7	25°	1576.4	1607.9	1491.1	1188.8	911.8	815.3	802.9	816.6	841.2	858.8
1535.9	27.5°	1632.8	1646.6	1464.0	1060.9	799.4	754.6	756.8	785.2	822.2	846.8
1601.8	30°	1696.6	1681.1	1411.9	917.0	721.5	702.5	720.6	753.8	790.8	812.8
1685.0	32.5°	1768.5	1710.8	1329.2	783.9	666.3	660.7	690.4	712.0	728.3	734.8
1795.2	35°	1858.1	1752.6	1223.2	690.4	616.8	630.1	658.6	647.8	641.3	637.9
1943.4	37.5°	1974.4	1809.0	1099.2	629.7	576.7	608.2	619.8	586.2	560.8	548.3
2123.0	40°	2114.4	1891.7	979.9	582.8	551.3	589.2	569.0	528.5	496.2	478.5
2325.0	42.5°	2269.9	1978.3	879.5	547.4	537.1	573.7	531.5	483.3	431.1	425.5
2565.8	45°	2433.1	2067.4	811.0	520.3	530.2	560.4	510.0	432.0	395.0	417.8
2807.4	47.5°	2596.4	2149.3	769.7	500.1	526.8	545.3	491.0	403.6	377.3	410.5
3066.3	50°	2778.1	2222.5	751.2	485.4	522.9	539.3	462.6	396.3	358.8	380.8
3334.2	52.5°	2958.6	2279.4	737.4	470.8	517.3	534.5	448.8	387.6	336.4	337.7
3603.8	55°	3138.6	2316.4	722.3	451.4	504.8	524.2	447.5	378.2	319.6	313.6
3888.9	57.5°	3330.7	2337.5	703.8	429.9	483.3	497.9	446.2	370.8	314.4	304.5
4180.5	60°	3526.3	2368.5	679.7	403.6	454.4	466.5	443.2	368.3	311.4	294.6
4455.3	62.5°	3701.6	2379.3	650.8	378.6	417.4	435.5	436.7	366.1	303.2	274.4
4683.6	65°	3816.6	2332.8	600.4	350.2	377.3	403.6	424.3	358.8	288.6	259.7
4796.5	67.5°	3811.8	2200.1	521.6	313.6	338.5	368.3	406.2	346.3	270.9	241.6
4711.2	70°	3634.4	1938.2	421.7	270.9	295.9	330.4	382.9	327.8	249.8	221.8
4189.1	72.5°	3117.1	1517.0	306.2	221.0	246.4	291.2	352.8	305.4	228.3	204.2
3096.0	75°	2226.8	960.1	207.6	169.7	191.7	246.8	315.3	279.1	208.5	205.0
1550.6	77.5°	1137.5	458.7	137.4	124.0	133.5	194.7	264.9	249.4	211.5	169.3
441.1	80°	370.0	169.3	86.6	84.4	88.7	129.6	205.0	204.6	160.2	115.0
106.8	82.5°	118.0	72.8	56.4	54.3	52.1	81.4	143.0	161.9	108.1	72.8
38.3	85°	46.9	43.5	33.2	30.6	22.0	38.3	74.9	107.7	80.5	52.5
9.9	87.5°	17.2	17.2	9.0	6.5	4.7	12.9	20.2	32.3	46.1	27.1
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>
1173.3
1264.2
1307.7
1299.0
1233.6
1127.2
1019.9
939.8
892.9
874.4
863.6
852.8
817.9
738.2
641.3
551.3
479.8
431.1
429.9
426.0
397.1
346.7
317.9
305.8
295.9
274.4
259.7
242.9
224.4
202.9
193.4
150.8
101.6
72.4
53.8
26.7
0.0

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