

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: P939327

Luminaire Tested: **GALN-SB1D-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9743 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

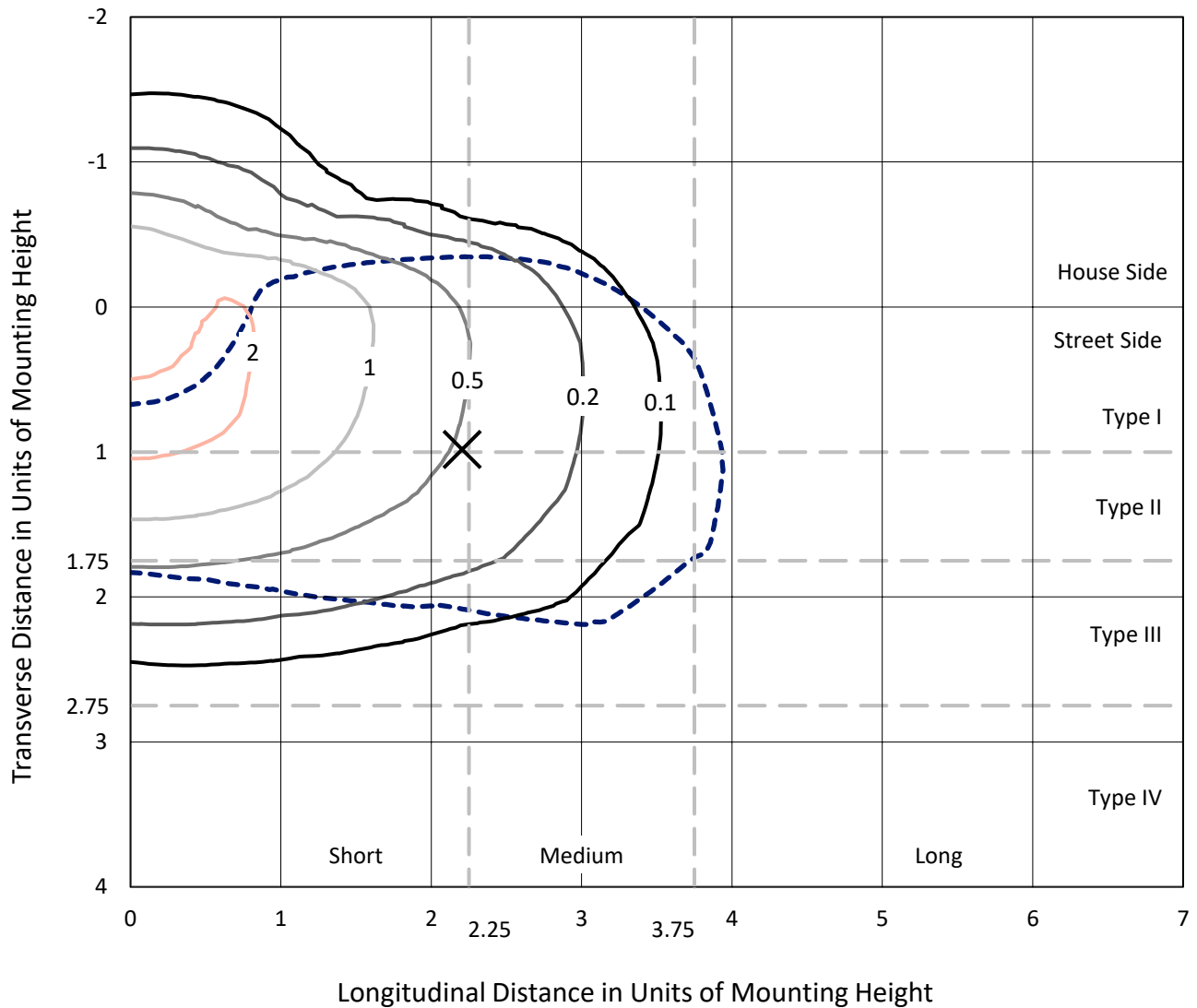
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939327
 CATALOG NUMBER: GALN-SB1D-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination

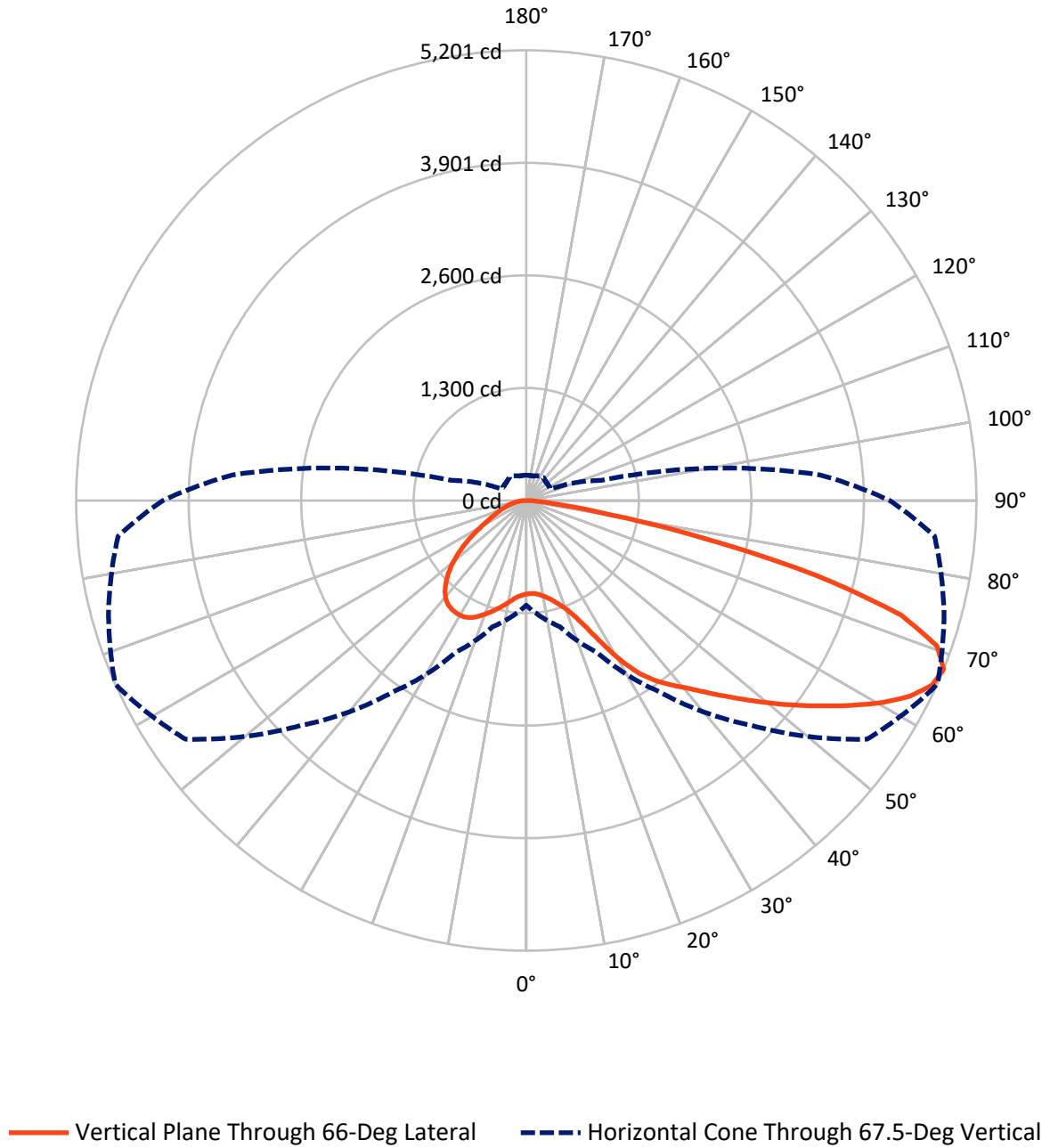
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P939327
CATALOG NUMBER: GALN-SB1D-840-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P939327

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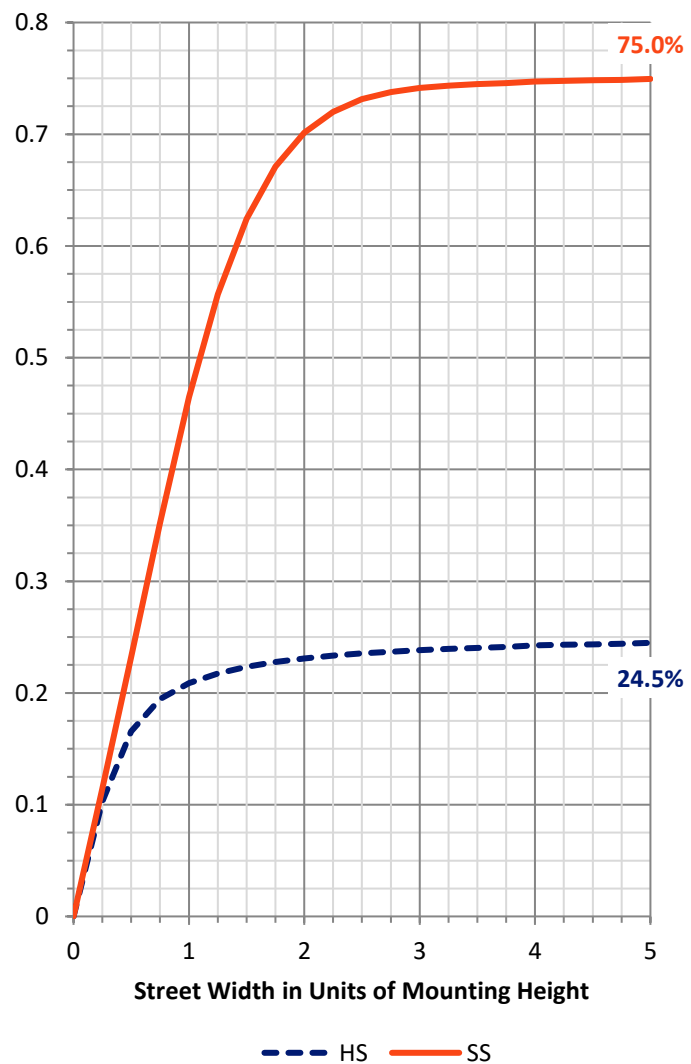
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2422.6	0.0	2422.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7320.4	0.0	7320.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	9743.0	0.0	9743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	1.1
10°-20°	354.0	3.6
20°-30°	682.3	7.0
30°-40°	1196.3	12.3
40°-50°	1778.5	18.3
50°-60°	2254.4	23.1
60°-70°	2205.8	22.6
70°-80°	1052.2	10.8
80°-90°	112.5	1.2
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°	9743.0	100.0
0°-180°	9743.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939327

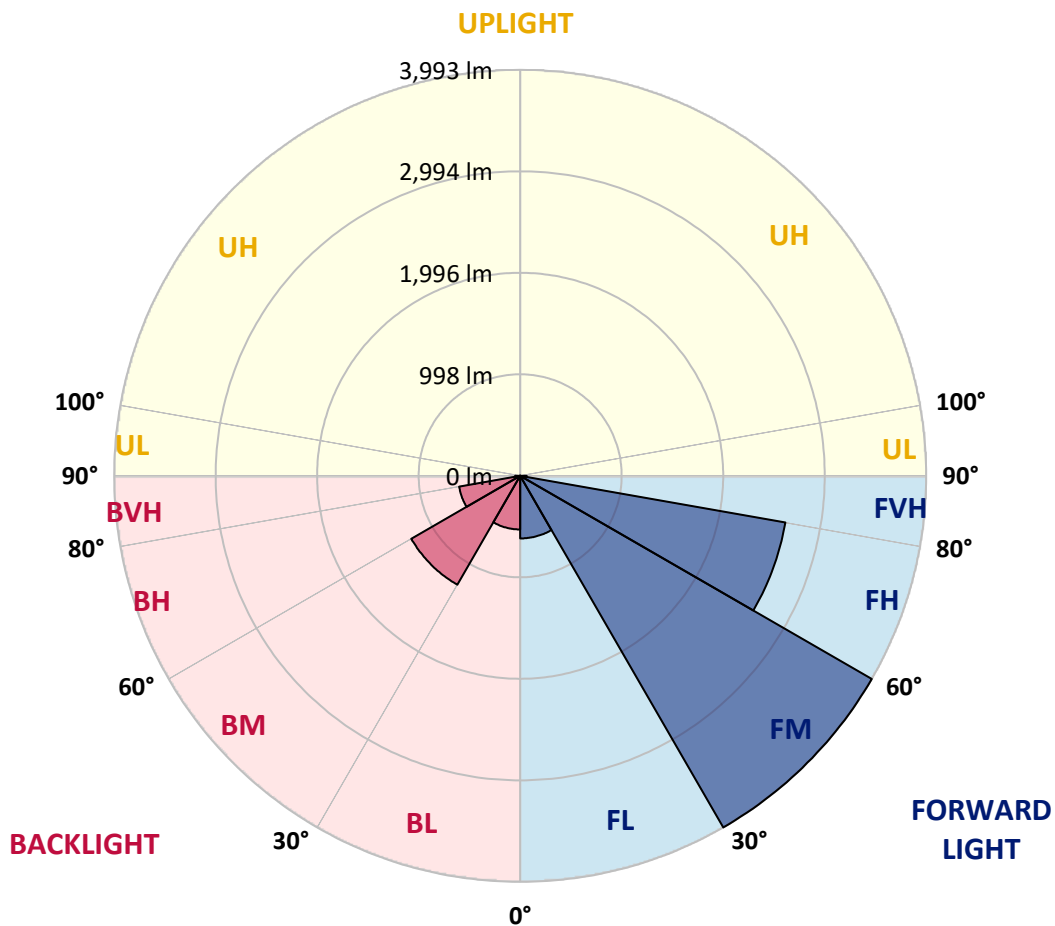
CATALOG NUMBER: GALN-SB1D-840-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.7	6.3			
FM (30°-60°)	3992.6	41.0			
FH (60°-80°)	2648.4	27.2			G2/5000
FVH (80°-90°)	63.8	0.7			G1/100
BL (0°-30°)	527.7	5.4	B2/1000		
BM (30°-60°)	1236.5	12.7	B2/2500		
BH (60°-80°)	609.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	48.7	0.5			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 Short



REPORT NUMBER: P939327

CATALOG NUMBER: GALN-SB1D-840-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6
2.5°	1069.4	1075.5	1074.0	1071.4	1070.9	1071.9	1073.5	1075.0	1074.5	1077.0
5°	1066.3	1072.4	1071.9	1071.9	1074.0	1078.1	1080.6	1083.2	1080.6	1083.7
7.5°	1068.3	1072.9	1075.0	1077.0	1082.2	1089.8	1096.0	1101.6	1098.5	1102.1
10°	1094.4	1098.0	1100.1	1100.1	1103.7	1112.4	1118.5	1128.7	1126.2	1131.8
12.5°	1142.1	1145.6	1145.6	1143.6	1146.2	1151.8	1153.8	1165.1	1160.5	1169.7
15°	1200.4	1207.6	1201.9	1198.4	1199.4	1205.0	1204.5	1213.2	1208.6	1216.3
17.5°	1264.9	1274.1	1264.9	1264.4	1262.4	1268.5	1269.0	1276.7	1268.5	1274.1
20°	1341.2	1354.0	1346.3	1348.9	1344.3	1346.8	1349.4	1360.6	1347.8	1351.9
22.5°	1448.7	1464.0	1455.9	1465.6	1462.5	1460.5	1459.9	1479.9	1459.9	1461.5
25°	1605.3	1623.8	1609.4	1622.7	1622.7	1629.4	1637.1	1662.7	1629.4	1619.7
27.5°	1836.7	1855.1	1827.0	1835.2	1832.6	1849.0	1840.8	1904.3	1868.4	1852.6
30°	2115.2	2147.9	2094.7	2092.7	2090.1	2116.2	2128.0	2170.0	2133.6	2117.7
32.5°	2416.2	2450.5	2387.0	2368.6	2358.8	2374.7	2365.0	2398.8	2373.7	2349.1
35°	2734.6	2768.4	2708.0	2672.1	2633.2	2600.0	2565.1	2573.8	2550.3	2512.9
37.5°	3035.6	3097.5	3033.5	2995.1	2923.5	2858.5	2761.2	2720.8	2698.8	2664.5
40°	3342.2	3377.5	3328.9	3296.1	3218.3	3116.5	2960.8	2875.4	2845.7	2812.4
42.5°	3568.0	3601.8	3575.6	3553.1	3492.2	3374.0	3172.8	3065.8	3022.8	2985.4
45°	3747.1	3772.2	3755.8	3764.0	3737.9	3623.3	3392.4	3270.0	3225.5	3179.9
47.5°	3819.3	3845.9	3872.0	3920.7	3965.2	3880.7	3628.4	3491.2	3444.1	3397.5
50°	3811.1	3838.2	3914.0	4017.4	4155.6	4127.5	3877.2	3726.7	3683.1	3629.9
52.5°	3745.6	3776.3	3873.6	4045.6	4265.7	4312.3	4130.5	3969.8	3928.9	3865.4
55°	3573.6	3592.0	3737.9	3981.6	4291.8	4441.3	4378.8	4228.8	4187.9	4099.3
57.5°	3254.7	3281.3	3493.7	3809.1	4226.3	4528.8	4596.9	4501.2	4461.7	4334.3
60°	2838.5	2881.0	3124.1	3519.3	4059.4	4528.3	4795.0	4768.9	4736.1	4565.7
62.5°	2367.6	2416.7	2650.6	3109.8	3767.6	4399.8	4918.9	4993.1	4976.2	4779.1
65°	1818.3	1852.1	2085.0	2580.0	3313.5	4123.9	4933.2	5146.2	5149.2	4941.4
67.5°	1210.7	1307.9	1510.1	1936.0	2705.4	3672.9	4807.3	5171.2	5200.9	4997.2
70°	590.7	718.7	916.8	1258.3	1936.0	2981.3	4478.1	4965.5	5031.5	4834.4
72.5°	245.2	286.7	394.7	620.9	1111.3	2011.8	3816.7	4407.5	4529.8	4283.6
75°	165.3	179.2	225.7	318.4	506.3	992.1	2752.5	3286.4	3483.5	3235.2
77.5°	127.5	136.2	164.3	222.7	301.0	375.2	1473.3	1980.6	2082.4	1927.8
80°	100.3	107.0	122.9	162.3	213.5	200.7	502.2	897.4	956.2	802.2
82.5°	87.0	89.6	88.0	110.1	141.8	117.2	164.8	331.2	365.5	265.2
85°	63.0	70.1	73.2	68.1	75.2	59.4	67.6	117.2	129.0	115.2
87.5°	25.6	37.9	46.6	44.0	27.6	16.9	21.0	34.3	39.4	43.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939327
 CATALOG NUMBER: GALN-SB1D-840-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1080.6	0°	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6
1081.1	2.5°	1081.7	1085.2	1087.8	1090.9	1092.9	1096.0	1102.1	1105.7	1106.2	1108.8
1089.3	5°	1091.4	1096.5	1102.1	1110.3	1119.5	1127.2	1139.0	1147.2	1150.2	1152.8
1109.3	7.5°	1112.4	1119.5	1129.8	1144.1	1157.4	1167.7	1182.0	1191.7	1201.4	1205.0
1141.0	10°	1143.6	1153.8	1168.7	1188.1	1202.5	1215.8	1230.6	1238.8	1248.5	1252.6
1178.9	12.5°	1182.5	1193.2	1212.7	1239.8	1253.1	1262.4	1267.5	1265.4	1267.5	1271.1
1224.5	15°	1227.0	1238.8	1260.8	1290.0	1299.2	1291.0	1279.8	1269.5	1268.0	1269.0
1279.8	17.5°	1279.8	1288.5	1314.1	1338.6	1332.0	1298.2	1273.6	1257.2	1249.0	1246.5
1350.4	20°	1353.5	1353.5	1374.5	1389.8	1345.3	1287.9	1249.6	1222.9	1206.0	1198.9
1446.6	22.5°	1443.1	1434.9	1448.2	1437.4	1342.7	1259.3	1206.0	1160.0	1134.4	1124.1
1581.3	25°	1556.7	1547.0	1543.4	1476.8	1324.3	1213.7	1127.2	1071.4	1048.9	1043.3
1775.3	27.5°	1728.2	1703.6	1657.0	1498.3	1290.5	1142.1	1035.1	983.4	970.6	971.1
2024.6	30°	1956.5	1907.4	1793.2	1501.9	1235.2	1040.7	940.9	904.0	897.9	900.4
2233.9	32.5°	2167.9	2121.3	1932.4	1485.5	1150.2	941.4	856.4	831.8	822.6	825.7
2393.7	35°	2333.8	2321.0	2061.4	1462.5	1045.8	848.2	780.7	759.7	741.7	737.7
2544.2	37.5°	2490.4	2485.3	2158.2	1430.3	942.4	782.2	719.7	692.1	666.0	651.7
2710.5	40°	2662.4	2657.3	2221.7	1380.6	850.8	724.9	665.0	628.6	596.4	570.3
2898.9	42.5°	2855.9	2825.7	2251.9	1309.4	773.0	676.2	620.4	571.3	528.8	504.7
3111.9	45°	3067.3	2999.2	2251.3	1218.8	707.5	631.7	572.8	503.2	463.8	441.3
3330.4	47.5°	3291.5	3165.1	2223.7	1118.5	644.0	582.5	499.1	445.9	419.8	405.9
3568.0	50°	3522.9	3320.2	2176.6	1003.3	579.0	526.7	453.0	416.7	396.7	383.9
3803.4	52.5°	3740.5	3461.0	2119.8	872.8	512.9	472.5	432.6	404.4	383.4	369.1
4031.7	55°	3942.7	3582.3	2039.4	739.2	459.2	436.1	422.8	399.3	375.2	358.3
4263.6	57.5°	4122.4	3661.1	1900.7	613.8	420.8	411.1	412.6	390.6	362.9	348.6
4491.9	60°	4271.8	3719.0	1695.4	497.6	389.6	386.5	396.7	374.2	342.0	325.6
4684.9	62.5°	4361.4	3718.0	1443.6	407.5	362.9	364.0	375.7	353.7	321.0	305.6
4785.8	65°	4353.7	3626.8	1167.1	348.6	337.3	338.4	353.7	331.2	303.6	294.3
4735.1	67.5°	4199.7	3404.7	895.3	310.2	309.2	313.8	331.7	315.8	292.8	291.8
4433.1	70°	3782.5	2943.4	645.0	279.5	280.0	286.7	310.2	306.1	287.2	289.2
3727.2	72.5°	3033.0	2244.2	433.1	247.2	247.8	258.5	289.7	298.4	281.5	308.7
2644.5	75°	2020.0	1399.5	278.5	213.0	213.5	227.3	271.8	283.6	266.2	307.7
1376.0	77.5°	970.6	629.1	201.7	179.2	179.2	192.0	235.0	253.9	226.8	239.1
442.3	80°	335.3	236.5	158.7	144.4	141.3	150.0	198.1	220.1	195.5	180.2
144.4	82.5°	132.1	122.9	127.5	112.1	101.9	107.5	154.1	181.7	143.8	130.0
81.4	85°	75.8	79.9	90.1	74.2	58.9	66.0	113.1	130.5	108.5	95.7
26.6	87.5°	20.5	28.2	41.5	38.4	26.6	28.2	53.7	72.2	62.5	48.1
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>
1080.6
1108.3
1152.3
1205.5
1254.7
1272.1
1272.6
1250.1
1197.3
1122.6
1044.3
972.6
909.1
829.8
740.7
652.2
572.8
506.3
440.2
402.9
379.3
362.9
351.7
339.4
318.4
301.0
293.8
293.3
288.7
312.8
310.2
219.1
168.9
129.5
97.8
49.7
0.0

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