

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: P940227

Luminaire Tested: **GALN-SB3A-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940227
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-SB3A-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9759 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

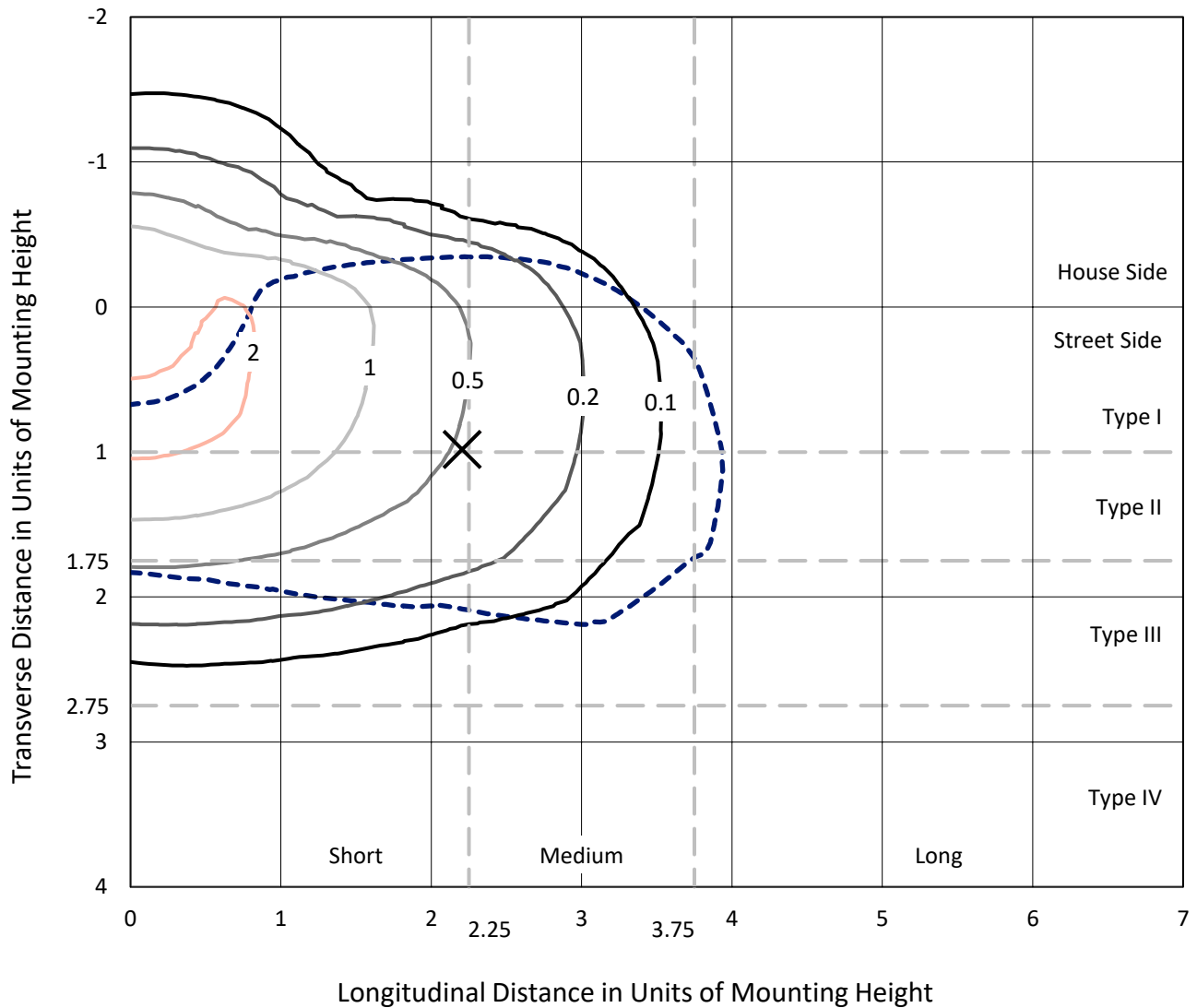
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940227
 CATALOG NUMBER: GALN-SB3A-940-U-T3

Iso-Footcandle Lines of Horizontal Illumination

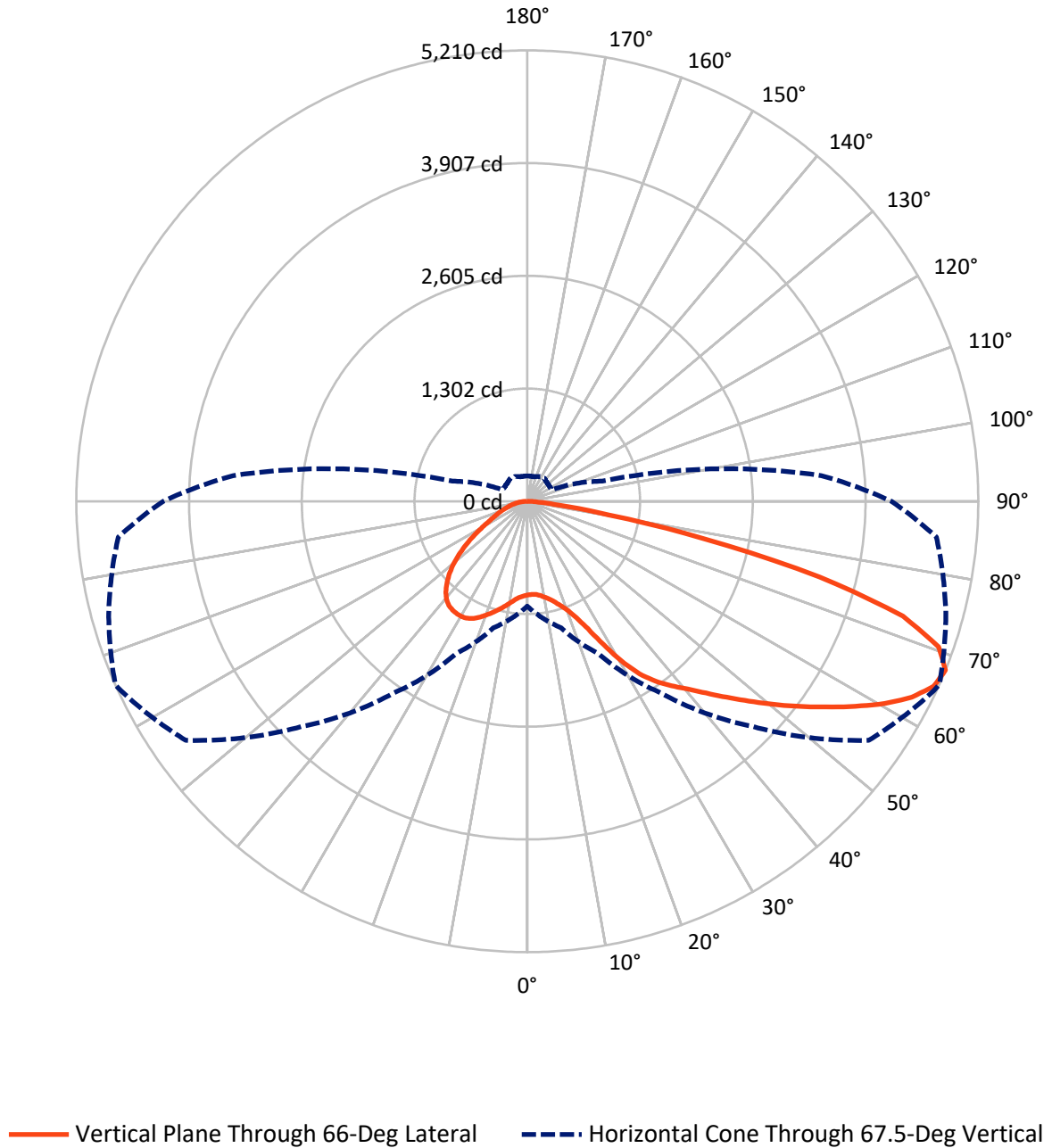
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P940227
CATALOG NUMBER: GALN-SB3A-940-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2426.5	0.0	2426.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7332.5	0.0	7332.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	9759.0	0.0	9759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.1
10°-20°	354.6	3.6
20°-30°	683.4	7.0
30°-40°	1198.2	12.3
40°-50°	1781.4	18.3
50°-60°	2258.1	23.1
60°-70°	2209.5	22.6
70°-80°	1053.9	10.8
80°-90°	112.6	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°	9759.0	100.0
0°-180°	9759.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940227

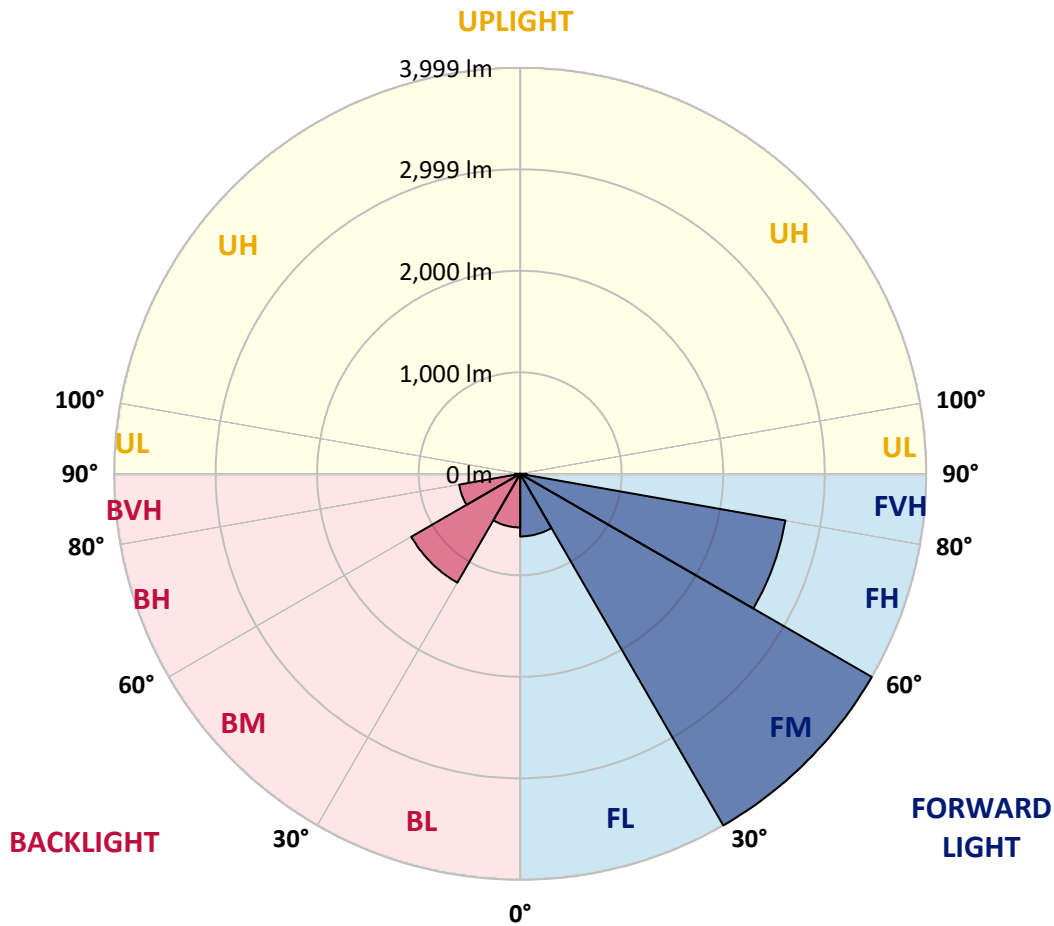
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.7	6.3			
FM (30°-60°)	3999.2	41.0			
FH (60°-80°)	2652.8	27.2			G2/5000
FVH (80°-90°)	63.9	0.7			G1/100
BL (0°-30°)	528.6	5.4	B2/1000		
BM (30°-60°)	1238.5	12.7	B2/2500		
BH (60°-80°)	610.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	48.8	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: P940227

CATALOG NUMBER: GALN-SB3A-940-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4
2.5°	1071.1	1077.3	1075.7	1073.2	1072.7	1073.7	1075.2	1076.8	1076.2	1078.8
5°	1068.0	1074.2	1073.7	1073.7	1075.7	1079.8	1082.4	1085.0	1082.4	1085.5
7.5°	1070.1	1074.7	1076.8	1078.8	1083.9	1091.6	1097.8	1103.4	1100.3	1103.9
10°	1096.2	1099.8	1101.9	1101.9	1105.5	1114.2	1120.3	1130.6	1128.0	1133.7
12.5°	1143.9	1147.5	1147.5	1145.5	1148.0	1153.7	1155.7	1167.0	1162.4	1171.6
15°	1202.4	1209.6	1203.9	1200.3	1201.4	1207.0	1206.5	1215.2	1210.6	1218.3
17.5°	1267.0	1276.2	1267.0	1266.5	1264.4	1270.6	1271.1	1278.8	1270.6	1276.2
20°	1343.4	1356.2	1348.5	1351.1	1346.5	1349.0	1351.6	1362.9	1350.1	1354.2
22.5°	1451.1	1466.4	1458.2	1468.0	1464.9	1462.9	1462.3	1482.3	1462.3	1463.9
25°	1608.0	1626.4	1612.1	1625.4	1625.4	1632.1	1639.8	1665.4	1632.1	1622.3
27.5°	1839.7	1858.2	1830.0	1838.2	1835.6	1852.0	1843.8	1907.4	1871.5	1855.6
30°	2118.7	2151.5	2098.1	2096.1	2093.5	2119.7	2131.5	2173.5	2137.1	2121.2
32.5°	2420.2	2454.5	2390.9	2372.5	2362.7	2378.6	2368.9	2402.7	2377.6	2353.0
35°	2739.1	2772.9	2712.4	2676.5	2637.6	2604.2	2569.4	2578.1	2554.5	2517.1
37.5°	3040.6	3102.6	3038.5	3000.1	2928.3	2863.2	2765.7	2725.2	2703.2	2668.8
40°	3347.7	3383.1	3334.4	3301.6	3223.6	3121.6	2965.7	2880.1	2850.3	2817.0
42.5°	3573.8	3607.7	3581.5	3559.0	3497.9	3379.5	3178.0	3070.8	3027.8	2990.3
45°	3753.3	3778.4	3762.0	3770.2	3744.1	3629.2	3398.0	3275.4	3230.8	3185.2
47.5°	3825.6	3852.2	3878.4	3927.1	3971.7	3887.1	3634.3	3496.9	3449.7	3403.1
50°	3817.4	3844.6	3920.4	4024.0	4162.5	4134.3	3883.5	3732.8	3689.2	3635.9
52.5°	3751.7	3782.5	3879.9	4052.2	4272.7	4319.4	4137.3	3976.3	3935.3	3871.7
55°	3579.5	3597.9	3744.1	3988.1	4298.8	4448.6	4386.0	4235.8	4194.8	4106.1
57.5°	3260.0	3286.7	3499.5	3815.3	4233.2	4536.2	4604.4	4508.6	4469.1	4341.4
60°	2843.2	2885.7	3129.3	3525.1	4066.1	4535.7	4802.9	4776.7	4743.9	4573.2
62.5°	2371.4	2420.7	2655.0	3114.9	3773.8	4407.0	4927.0	5001.3	4984.4	4787.0
65°	1821.3	1855.1	2088.4	2584.2	3319.0	4130.7	4941.3	5154.6	5157.7	4949.5
67.5°	1212.6	1310.1	1512.6	1939.2	2709.9	3678.9	4815.2	5179.7	5209.5	5005.4
70°	591.7	719.9	918.3	1260.3	1939.2	2986.2	4485.5	4973.6	5039.8	4842.4
72.5°	245.6	287.1	395.3	622.0	1113.2	2015.1	3823.0	4414.7	4537.3	4290.6
75°	165.6	179.5	226.1	318.9	507.1	993.7	2757.0	3291.8	3489.2	3240.5
77.5°	127.7	136.4	164.6	223.0	301.5	375.8	1475.7	1983.8	2085.8	1931.0
80°	100.5	107.2	123.1	162.5	213.8	201.0	503.0	898.8	957.8	803.5
82.5°	87.2	89.7	88.2	110.2	142.0	117.4	165.1	331.7	366.1	265.6
85°	63.1	70.2	73.3	68.2	75.4	59.5	67.7	117.4	129.2	115.4
87.5°	25.6	37.9	46.7	44.1	27.7	16.9	21.0	34.4	39.5	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940227
 CATALOG NUMBER: GALN-SB3A-940-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1082.4	0°	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4
1082.9	2.5°	1083.4	1087.0	1089.6	1092.7	1094.7	1097.8	1103.9	1107.5	1108.0	1110.6
1091.1	5°	1093.2	1098.3	1103.9	1112.1	1121.4	1129.1	1140.9	1149.1	1152.1	1154.7
1111.1	7.5°	1114.2	1121.4	1131.6	1146.0	1159.3	1169.6	1183.9	1193.7	1203.4	1207.0
1142.9	10°	1145.5	1155.7	1170.6	1190.1	1204.4	1217.8	1232.6	1240.8	1250.6	1254.7
1180.8	12.5°	1184.4	1195.2	1214.7	1241.9	1255.2	1264.4	1269.6	1267.5	1269.6	1273.1
1226.5	15°	1229.0	1240.8	1262.9	1292.1	1301.3	1293.1	1281.9	1271.6	1270.1	1271.1
1281.9	17.5°	1281.9	1290.6	1316.2	1340.8	1334.2	1300.3	1275.7	1259.3	1251.1	1248.5
1352.6	20°	1355.7	1355.7	1376.7	1392.1	1347.5	1290.1	1251.6	1224.9	1208.0	1200.8
1449.0	22.5°	1445.4	1437.2	1450.6	1439.8	1344.9	1261.3	1208.0	1161.9	1136.2	1126.0
1583.9	25°	1559.3	1549.5	1545.9	1479.3	1326.5	1215.7	1129.1	1073.2	1050.6	1045.0
1778.2	27.5°	1731.0	1706.4	1659.8	1500.8	1292.6	1143.9	1036.8	985.0	972.2	972.7
2027.9	30°	1959.7	1910.5	1796.1	1504.4	1237.3	1042.4	942.4	905.5	899.4	901.9
2237.6	32.5°	2171.5	2124.8	1935.6	1488.0	1152.1	942.9	857.8	833.2	824.0	827.1
2397.6	35°	2337.6	2324.8	2064.8	1464.9	1047.5	849.6	781.9	760.9	743.0	738.9
2548.3	37.5°	2494.5	2489.4	2161.7	1432.6	944.0	783.5	720.9	693.2	667.1	652.7
2715.0	40°	2666.8	2661.7	2225.3	1382.9	852.2	726.0	666.1	629.6	597.3	571.2
2903.7	42.5°	2860.6	2830.3	2255.6	1311.6	774.2	677.3	621.4	572.2	529.7	505.6
3117.0	45°	3072.4	3004.2	2255.0	1220.8	708.6	632.7	573.8	504.0	464.5	442.0
3335.9	47.5°	3296.9	3170.3	2227.4	1120.3	645.0	583.5	499.9	446.6	420.4	406.6
3573.8	50°	3528.7	3325.7	2180.2	1005.0	579.9	527.6	453.8	417.4	397.4	384.6
3809.7	52.5°	3746.6	3466.7	2123.3	874.2	513.8	473.3	433.3	405.1	384.0	369.7
4038.4	55°	3949.2	3588.2	2042.8	740.4	459.9	436.9	423.5	399.9	375.8	358.9
4270.6	57.5°	4129.1	3667.1	1903.8	614.8	421.5	411.7	413.3	391.2	363.5	349.2
4499.3	60°	4278.8	3725.1	1698.2	498.4	390.2	387.1	397.4	374.8	342.5	326.1
4692.6	62.5°	4368.6	3724.1	1445.9	408.1	363.5	364.6	376.4	354.3	321.5	306.1
4793.6	65°	4360.9	3632.8	1169.1	349.2	337.9	338.9	354.3	331.7	304.1	294.8
4742.9	67.5°	4206.5	3410.3	896.8	310.7	309.7	314.3	332.3	316.4	293.3	292.3
4440.4	70°	3788.7	2948.3	646.1	280.0	280.5	287.1	310.7	306.6	287.6	289.7
3733.3	72.5°	3038.0	2247.9	433.8	247.7	248.2	258.9	290.2	298.9	282.0	309.2
2648.8	75°	2023.3	1401.8	278.9	213.3	213.8	227.7	272.3	284.1	266.6	308.2
1378.3	77.5°	972.2	630.2	202.0	179.5	179.5	192.3	235.3	254.3	227.1	239.5
443.0	80°	335.8	236.9	159.0	144.6	141.5	150.2	198.4	220.5	195.9	180.5
144.6	82.5°	132.3	123.1	127.7	112.3	102.0	107.7	154.3	182.0	144.1	130.2
81.5	85°	75.9	80.0	90.2	74.3	59.0	66.1	113.3	130.7	108.7	95.9
26.7	87.5°	20.5	28.2	41.5	38.5	26.7	28.2	53.8	72.3	62.6	48.2
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>
1082.4
1110.1
1154.2
1207.5
1256.7
1274.2
1274.7
1252.1
1199.3
1124.4
1046.0
974.2
910.6
831.2
741.9
653.2
573.8
507.1
441.0
403.5
379.9
363.5
352.3
339.9
318.9
301.5
294.3
293.8
289.2
313.3
310.7
219.5
169.2
129.7
97.9
49.7
0.0

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