

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: P939887

Luminaire Tested: **GALN-SB2C-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939887
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-SB2C-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10860 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

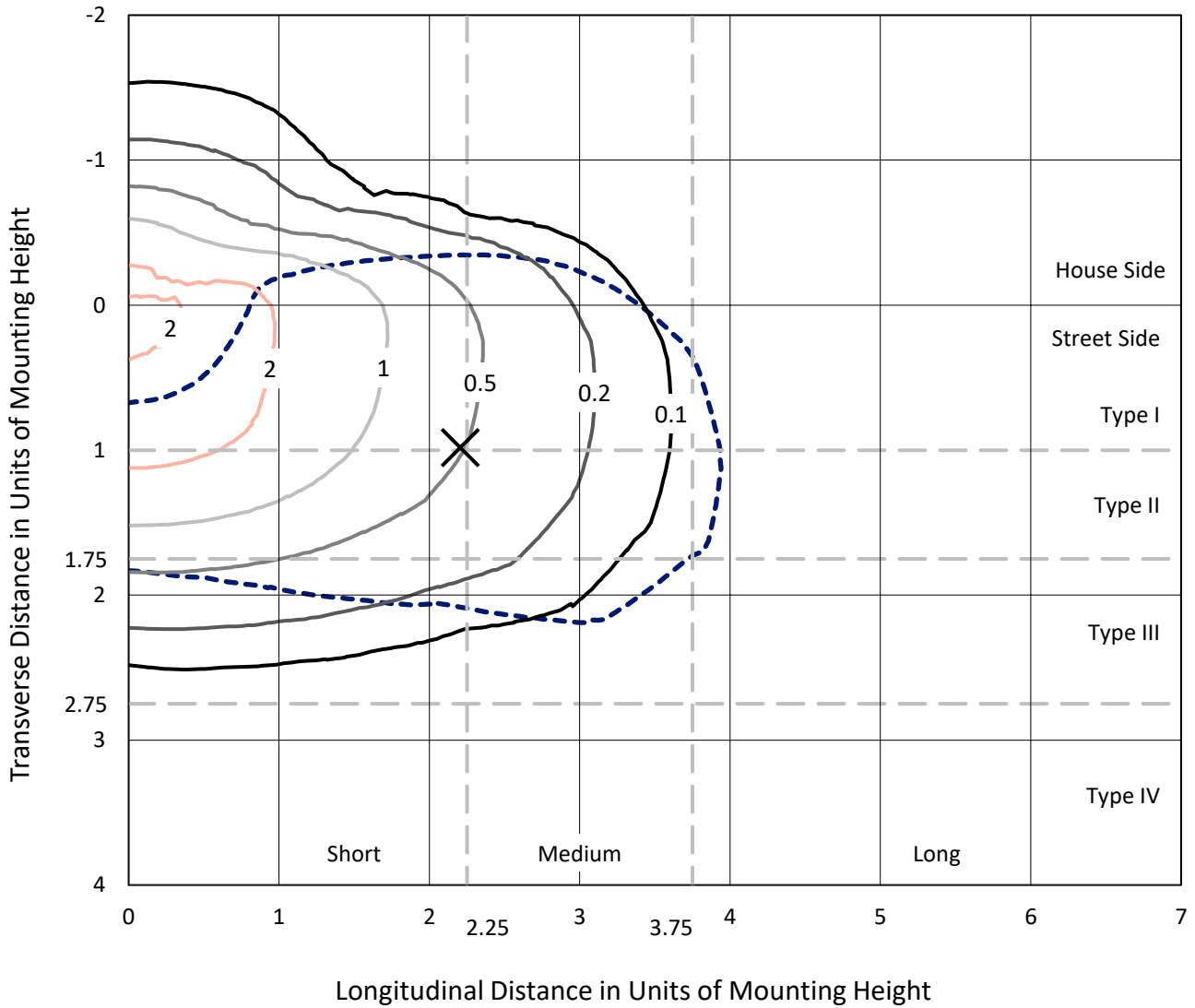
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

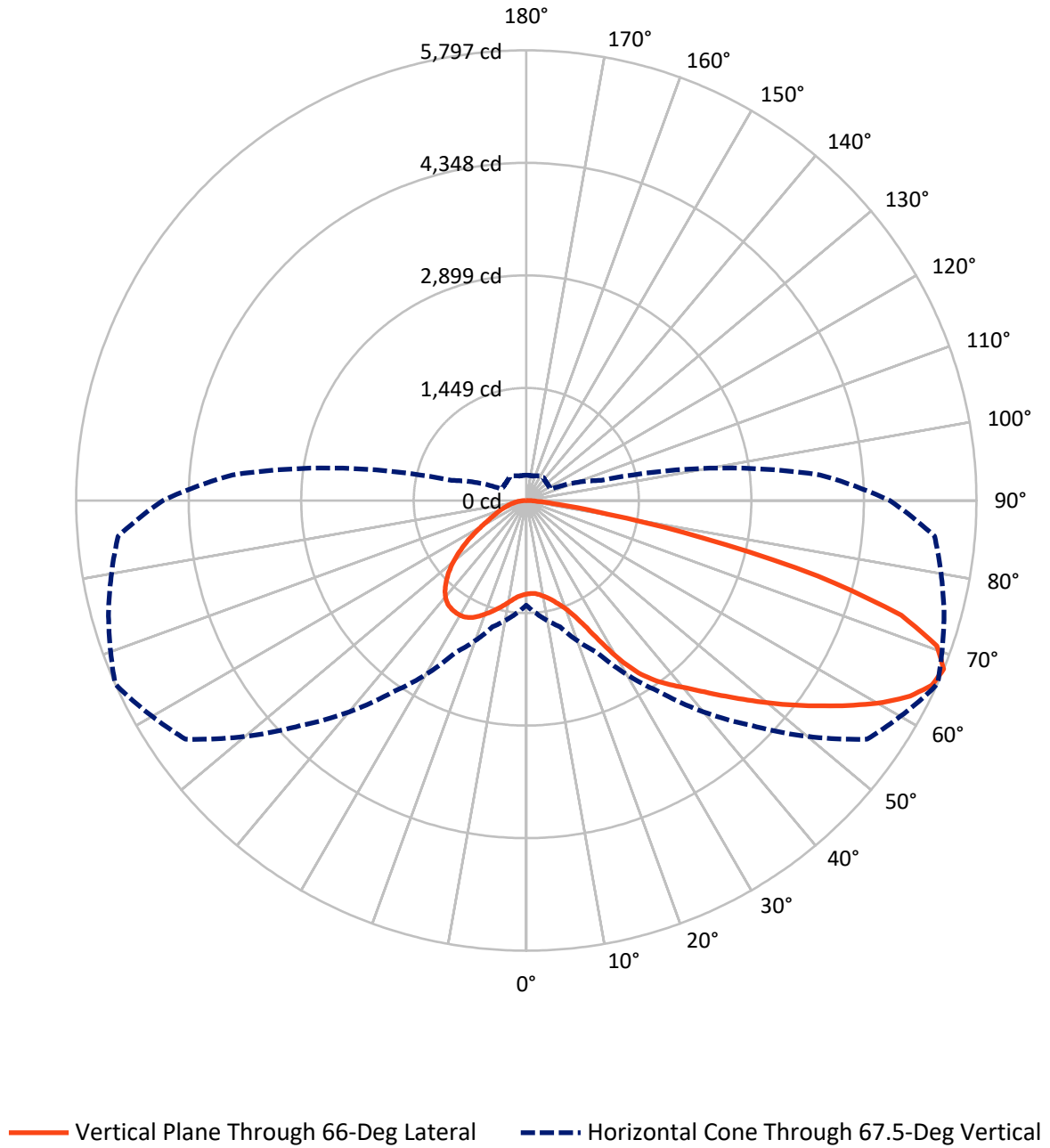
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2700.3	0.0	2700.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8159.7	0.0	8159.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	10860.0	0.0	10860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	1.1
10°-20°	394.6	3.6
20°-30°	760.5	7.0
30°-40°	1333.4	12.3
40°-50°	1982.4	18.3
50°-60°	2512.8	23.1
60°-70°	2458.7	22.6
70°-80°	1172.8	10.8
80°-90°	125.3	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°	10860.0	100.0
0°-180°	10860.0	100.0

Coefficient of Utilization



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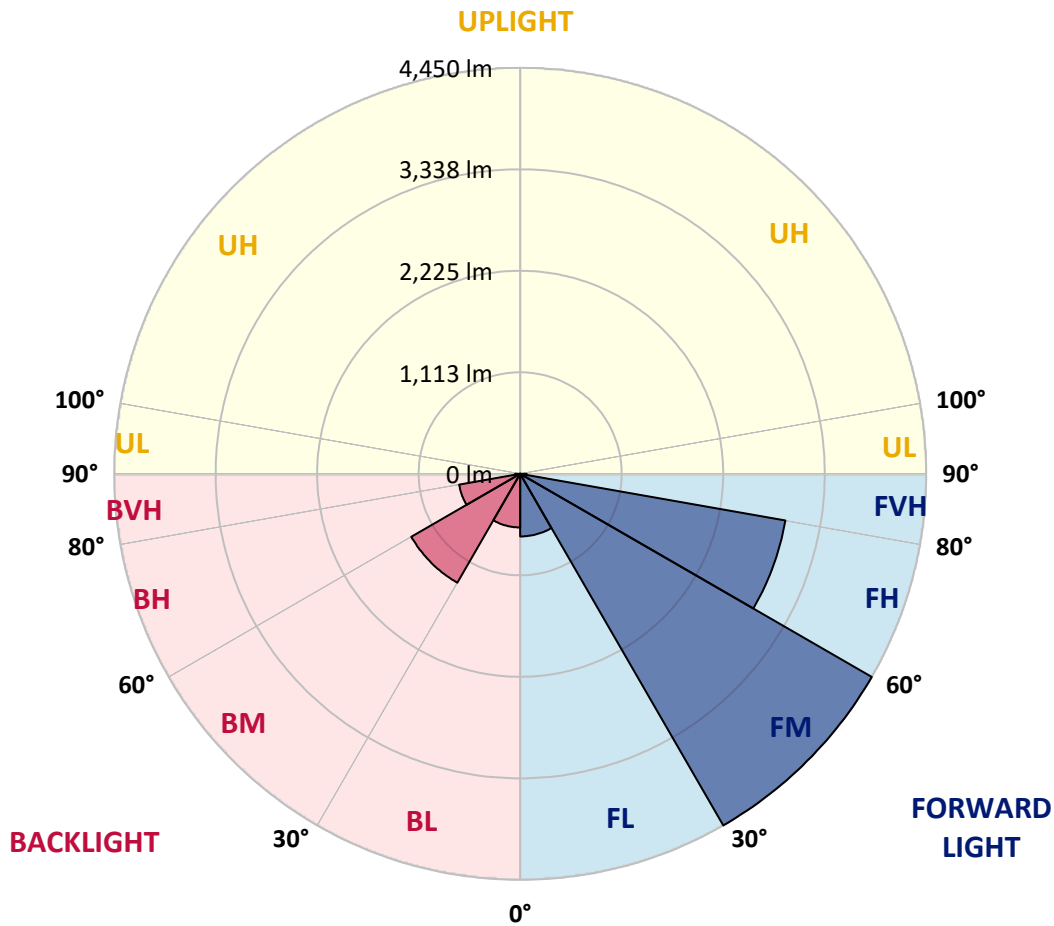
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.2	6.3			
FM (30°-60°)	4450.3	41.0			
FH (60°-80°)	2952.0	27.2			G2/5000
FVH (80°-90°)	71.1	0.7			G1/100
BL (0°-30°)	588.2	5.4	B2/1000		
BM (30°-60°)	1378.3	12.7	B2/2500		
BH (60°-80°)	679.5	6.3	B2/1000		G2/1000
BVH (80°-90°)	54.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5
2.5°	1192.0	1198.8	1197.1	1194.2	1193.7	1194.8	1196.5	1198.2	1197.7	1200.5
5°	1188.5	1195.4	1194.8	1194.8	1197.1	1201.7	1204.5	1207.4	1204.5	1207.9
7.5°	1190.8	1196.0	1198.2	1200.5	1206.2	1214.8	1221.6	1227.9	1224.5	1228.5
10°	1219.9	1223.9	1226.2	1226.2	1230.2	1239.9	1246.7	1258.2	1255.3	1261.6
12.5°	1273.0	1277.0	1277.0	1274.7	1277.6	1283.8	1286.1	1298.7	1293.5	1303.8
15°	1338.0	1346.0	1339.7	1335.8	1336.9	1343.2	1342.6	1352.3	1347.2	1355.7
17.5°	1409.9	1420.2	1409.9	1409.4	1407.1	1413.9	1414.5	1423.1	1413.9	1420.2
20°	1494.9	1509.2	1500.7	1503.5	1498.4	1501.2	1504.1	1516.6	1502.4	1506.9
22.5°	1614.8	1631.9	1622.8	1633.6	1630.2	1627.9	1627.3	1649.6	1627.3	1629.0
25°	1789.4	1809.9	1793.9	1808.8	1808.8	1816.2	1824.7	1853.3	1816.2	1805.3
27.5°	2047.3	2067.8	2036.4	2045.6	2042.7	2061.0	2051.8	2122.6	2082.7	2065.0
30°	2357.7	2394.2	2334.9	2332.6	2329.7	2358.8	2371.9	2418.7	2378.2	2360.5
32.5°	2693.2	2731.4	2660.7	2640.1	2629.3	2647.0	2636.1	2673.8	2645.8	2618.4
35°	3048.1	3085.8	3018.4	2978.5	2935.1	2898.0	2859.2	2868.9	2842.7	2801.0
37.5°	3383.6	3452.6	3381.3	3338.5	3258.6	3186.2	3077.8	3032.7	3008.2	2969.9
40°	3725.4	3764.8	3710.6	3674.0	3587.3	3473.8	3300.3	3205.0	3171.9	3134.8
42.5°	3977.0	4014.7	3985.6	3960.5	3892.6	3760.8	3536.5	3417.3	3369.3	3327.7
45°	4176.7	4204.7	4186.4	4195.6	4166.5	4038.6	3781.3	3644.9	3595.3	3544.5
47.5°	4257.2	4286.8	4316.0	4370.2	4419.8	4325.7	4044.3	3891.4	3838.9	3787.0
50°	4248.0	4278.3	4362.7	4478.0	4632.1	4600.7	4321.7	4153.9	4105.4	4046.1
52.5°	4175.0	4209.2	4317.7	4509.4	4754.7	4806.7	4604.1	4424.9	4379.3	4308.5
55°	3983.3	4003.8	4166.5	4438.1	4783.8	4950.4	4880.8	4713.7	4668.0	4569.3
57.5°	3627.8	3657.5	3894.3	4245.8	4710.8	5048.0	5123.9	5017.2	4973.3	4831.2
60°	3163.9	3211.3	3482.3	3922.8	4524.8	5047.4	5344.7	5315.6	5279.1	5089.1
62.5°	2639.0	2693.8	2954.5	3466.3	4199.5	4904.2	5482.8	5565.5	5546.7	5327.0
65°	2026.7	2064.4	2324.0	2875.8	3693.4	4596.7	5498.8	5736.2	5739.6	5507.9
67.5°	1349.4	1457.9	1683.2	2158.0	3015.6	4094.0	5358.4	5764.1	5797.2	5570.1
70°	658.5	801.1	1021.9	1402.5	2158.0	3323.1	4991.5	5534.7	5608.3	5388.7
72.5°	273.3	319.5	439.9	692.1	1238.8	2242.4	4254.3	4912.8	5049.2	4774.7
75°	184.3	199.7	251.6	354.9	564.3	1105.8	3068.1	3663.2	3882.9	3606.1
77.5°	142.1	151.8	183.2	248.2	335.5	418.2	1642.2	2207.6	2321.2	2148.8
80°	111.8	119.3	136.9	180.9	237.9	223.7	559.7	1000.2	1065.9	894.1
82.5°	97.0	99.9	98.1	122.7	158.1	130.7	183.7	369.2	407.4	295.6
85°	70.2	78.2	81.6	75.9	83.9	66.2	75.3	130.7	143.8	128.4
87.5°	28.5	42.2	51.9	49.1	30.8	18.8	23.4	38.2	43.9	47.9
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°
1204.5	0°	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5	1204.5
1205.1	2.5°	1205.7	1209.7	1212.5	1215.9	1218.2	1221.6	1228.5	1232.5	1233.0	1235.9
1214.2	5°	1216.5	1222.2	1228.5	1237.6	1247.9	1256.4	1269.6	1278.7	1282.1	1285.0
1236.5	7.5°	1239.9	1247.9	1259.3	1275.3	1290.1	1301.5	1317.5	1328.3	1339.2	1343.2
1271.8	10°	1274.7	1286.1	1302.7	1324.3	1340.3	1355.2	1371.7	1380.8	1391.7	1396.2
1314.1	12.5°	1318.1	1330.0	1351.7	1382.0	1396.8	1407.1	1412.8	1410.5	1412.8	1416.8
1364.9	15°	1367.7	1380.8	1405.4	1437.9	1448.2	1439.0	1426.5	1415.1	1413.4	1414.5
1426.5	17.5°	1426.5	1436.2	1464.7	1492.1	1484.7	1447.0	1419.6	1401.4	1392.2	1389.4
1505.2	20°	1508.6	1508.6	1532.0	1549.2	1499.5	1435.6	1392.8	1363.1	1344.3	1336.3
1612.5	22.5°	1608.5	1599.4	1614.2	1602.2	1496.7	1403.7	1344.3	1293.0	1264.4	1253.0
1762.6	25°	1735.2	1724.3	1720.3	1646.2	1476.1	1352.9	1256.4	1194.2	1169.1	1162.9
1978.8	27.5°	1926.3	1898.9	1847.0	1670.1	1438.5	1273.0	1153.7	1096.1	1081.8	1082.4
2256.7	30°	2180.8	2126.0	1998.8	1674.1	1376.8	1160.0	1048.7	1007.7	1000.8	1003.7
2490.1	32.5°	2416.5	2364.5	2154.0	1655.9	1282.1	1049.3	954.6	927.2	916.9	920.4
2668.1	35°	2601.3	2587.1	2297.8	1630.2	1165.7	945.5	870.2	846.8	826.8	822.2
2835.8	37.5°	2775.9	2770.2	2405.6	1594.2	1050.5	871.9	802.3	771.4	742.3	726.4
3021.3	40°	2967.6	2961.9	2476.4	1538.9	948.3	808.0	741.2	700.7	664.7	635.6
3231.3	42.5°	3183.3	3149.7	2510.0	1459.6	861.6	753.8	691.6	636.8	589.4	562.6
3468.6	45°	3419.0	3343.1	2509.5	1358.6	788.6	704.1	638.5	560.9	517.0	491.8
3712.3	47.5°	3668.9	3528.0	2478.6	1246.7	717.8	649.3	556.3	497.0	467.9	452.5
3977.0	50°	3926.8	3700.9	2426.2	1118.4	645.3	587.1	505.0	464.5	442.2	427.9
4239.5	52.5°	4169.3	3857.8	2362.8	972.9	571.7	526.7	482.1	450.8	427.4	411.4
4494.0	55°	4394.7	3993.0	2273.2	823.9	511.8	486.1	471.3	445.1	418.2	399.4
4752.5	57.5°	4595.0	4080.9	2118.6	684.1	469.0	458.2	459.9	435.4	404.5	388.6
5006.9	60°	4761.6	4145.3	1889.8	554.6	434.2	430.8	442.2	417.1	381.2	362.9
5222.0	62.5°	4861.4	4144.2	1609.1	454.2	404.5	405.7	418.8	394.3	357.8	340.6
5334.5	65°	4852.9	4042.6	1300.9	388.6	376.0	377.2	394.3	369.2	338.4	328.1
5278.0	67.5°	4681.1	3795.0	998.0	345.8	344.6	349.8	369.7	352.1	326.4	325.2
4941.3	70°	4216.1	3280.9	718.9	311.5	312.1	319.5	345.8	341.2	320.1	322.4
4154.5	72.5°	3380.8	2501.5	482.7	275.6	276.2	288.1	323.0	332.7	313.8	344.1
2947.7	75°	2251.6	1560.0	310.4	237.4	237.9	253.3	303.0	316.1	296.7	342.9
1533.7	77.5°	1081.8	701.3	224.8	199.7	199.7	214.0	261.9	283.0	252.8	266.5
493.0	80°	373.7	263.6	176.9	160.9	157.5	167.2	220.8	245.4	218.0	200.8
160.9	82.5°	147.2	136.9	142.1	125.0	113.5	119.8	171.7	202.6	160.3	144.9
90.7	85°	84.4	89.0	100.4	82.7	65.6	73.6	126.1	145.5	121.0	106.7
29.7	87.5°	22.8	31.4	46.2	42.8	29.7	31.4	59.9	80.5	69.6	53.6
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>
1204.5
1235.3
1284.4
1343.7
1398.5
1417.9
1418.5
1393.4
1334.6
1251.3
1164.0
1084.1
1013.4
924.9
825.6
726.9
638.5
564.3
490.7
449.1
422.8
404.5
392.0
378.3
354.9
335.5
327.5
326.9
321.8
348.6
345.8
244.2
188.3
144.4
109.0
55.3
0.0

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