

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: P939637

Luminaire Tested: **GALN-SB2B-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939637
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-SB2B-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9799 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

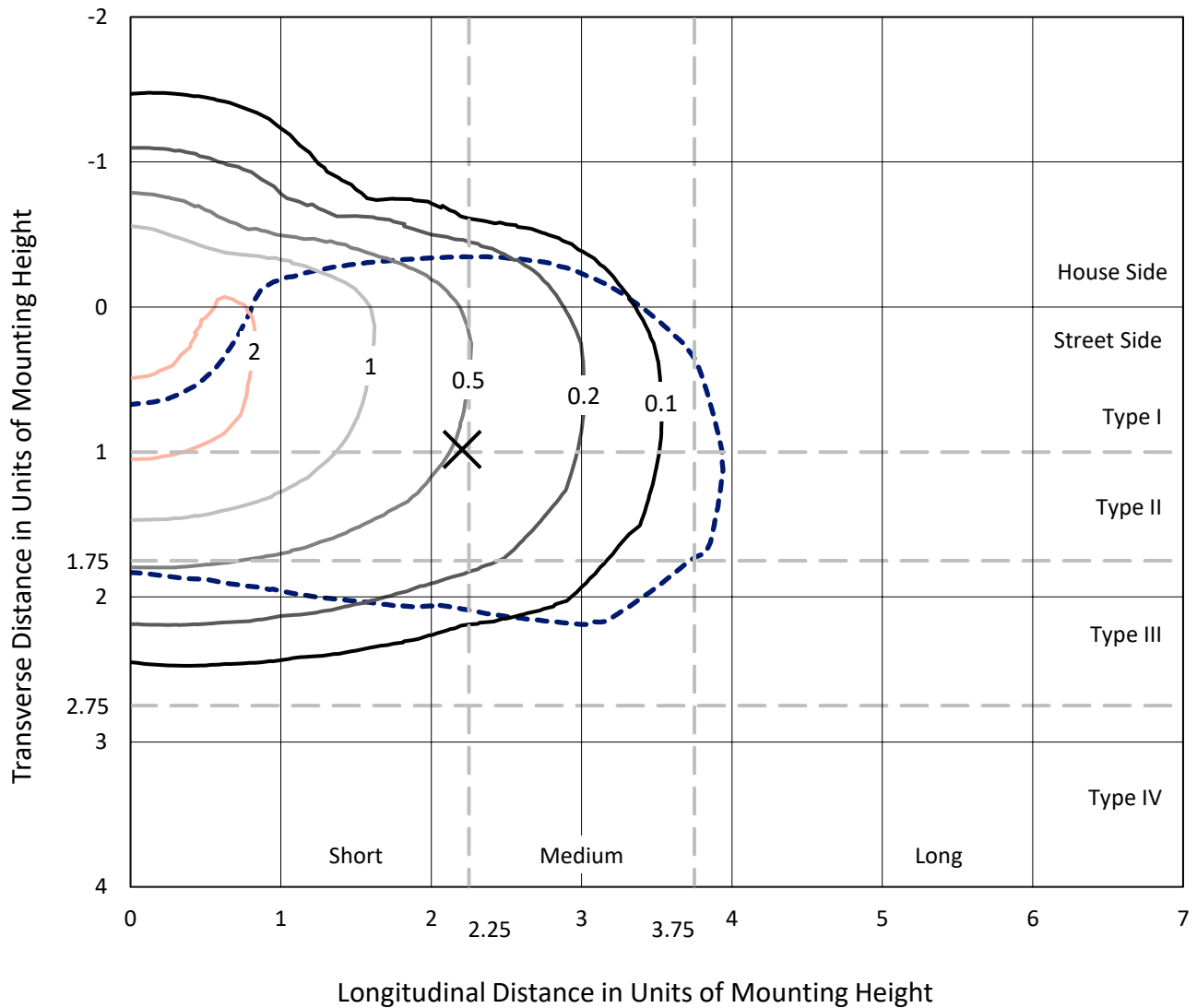
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

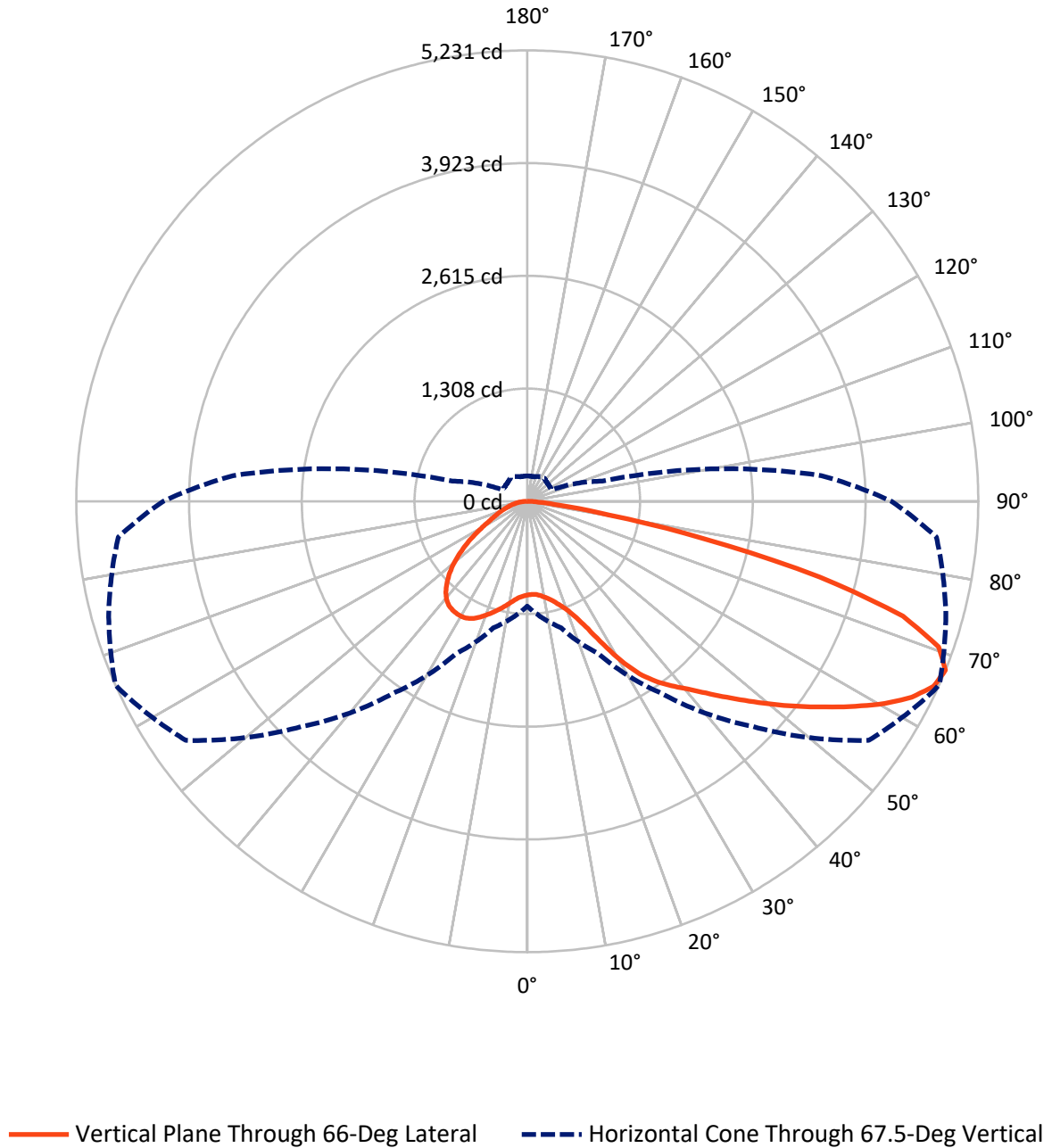
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	2436.5	0.0	2436.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7362.5	0.0	7362.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	9799.0	0.0	9799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	1.1
10°-20°	356.0	3.6
20°-30°	686.2	7.0
30°-40°	1203.1	12.3
40°-50°	1788.7	18.3
50°-60°	2267.3	23.1
60°-70°	2218.5	22.6
70°-80°	1058.3	10.8
80°-90°	113.1	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°	9799.0	100.0
0°-180°	9799.0	100.0

Coefficient of Utilization



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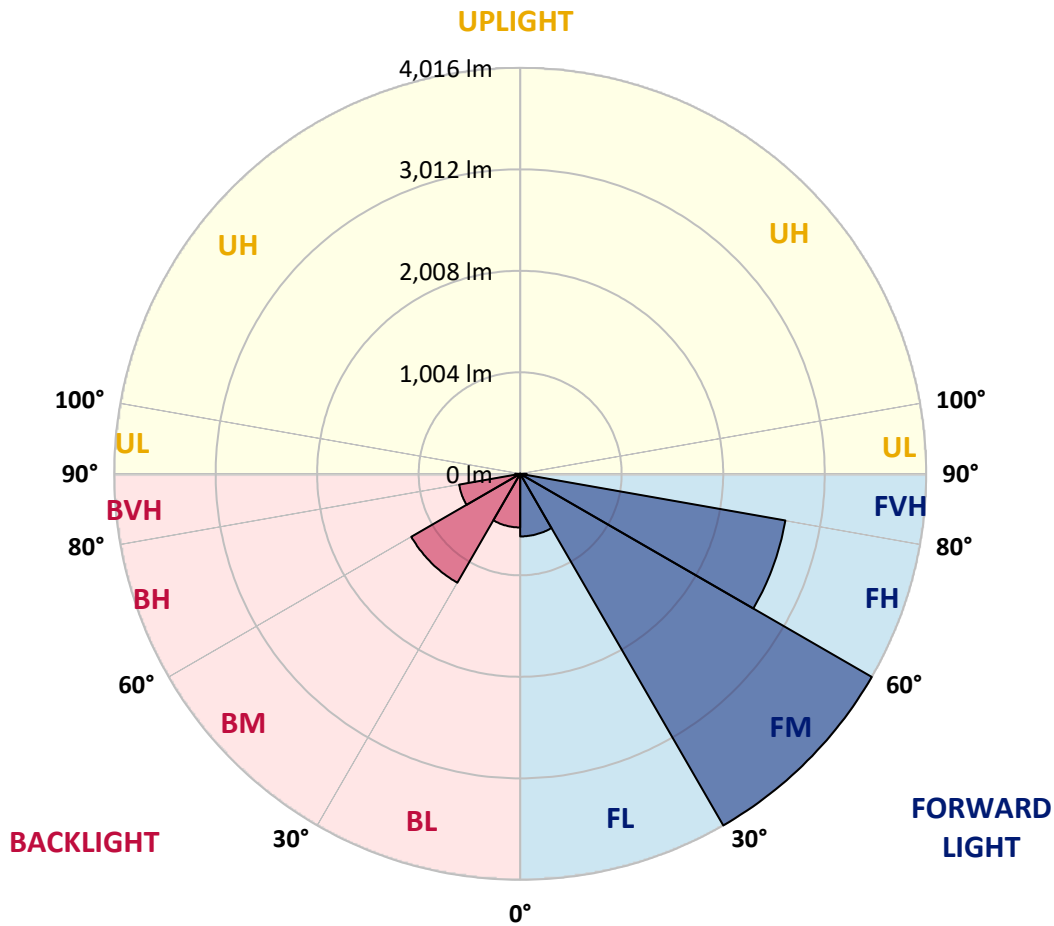
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.2	6.3			
FM (30°-60°)	4015.5	41.0			
FH (60°-80°)	2663.6	27.2			G2/5000
FVH (80°-90°)	64.1	0.7			G1/100
BL (0°-30°)	530.8	5.4	B2/1000		
BM (30°-60°)	1243.6	12.7	B2/2500		
BH (60°-80°)	613.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	49.0	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°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8
2.5°	1075.5	1081.7	1080.1	1077.6	1077.1	1078.1	1079.6	1081.2	1080.7	1083.2
5°	1072.4	1078.6	1078.1	1078.1	1080.1	1084.3	1086.8	1089.4	1086.8	1089.9
7.5°	1074.5	1079.1	1081.2	1083.2	1088.4	1096.1	1102.3	1107.9	1104.9	1108.5
10°	1100.7	1104.3	1106.4	1106.4	1110.0	1118.8	1124.9	1135.2	1132.7	1138.3
12.5°	1148.6	1152.2	1152.2	1150.2	1152.7	1158.4	1160.5	1171.8	1167.2	1176.4
15°	1207.3	1214.5	1208.9	1205.3	1206.3	1211.9	1211.4	1220.2	1215.5	1223.3
17.5°	1272.2	1281.5	1272.2	1271.7	1269.6	1275.8	1276.3	1284.0	1275.8	1281.5
20°	1348.9	1361.8	1354.0	1356.6	1352.0	1354.6	1357.1	1368.5	1355.6	1359.7
22.5°	1457.0	1472.5	1464.2	1474.0	1470.9	1468.9	1468.3	1488.4	1468.3	1469.9
25°	1614.6	1633.1	1618.7	1632.1	1632.1	1638.8	1646.5	1672.2	1638.8	1629.0
27.5°	1847.3	1865.8	1837.5	1845.7	1843.1	1859.6	1851.4	1915.2	1879.2	1863.2
30°	2127.3	2160.3	2106.7	2104.7	2102.1	2128.4	2140.2	2182.4	2145.9	2129.9
32.5°	2430.1	2464.6	2400.7	2382.2	2372.4	2388.4	2378.6	2412.6	2387.3	2362.6
35°	2750.3	2784.3	2723.5	2687.5	2648.4	2614.9	2579.9	2588.6	2565.0	2527.4
37.5°	3053.0	3115.3	3051.0	3012.4	2940.3	2874.9	2777.1	2736.4	2714.3	2679.8
40°	3361.4	3396.9	3348.0	3315.1	3236.8	3134.4	2977.9	2891.9	2862.0	2828.6
42.5°	3588.5	3622.5	3596.2	3573.5	3512.3	3393.3	3191.0	3083.4	3040.2	3002.6
45°	3768.7	3793.9	3777.4	3785.7	3759.4	3644.1	3411.9	3288.8	3244.0	3198.2
47.5°	3841.3	3868.0	3894.3	3943.2	3988.0	3903.0	3649.2	3511.2	3463.9	3417.0
50°	3833.0	3860.3	3936.5	4040.5	4179.5	4151.2	3899.4	3748.1	3704.3	3650.8
52.5°	3767.1	3798.0	3895.8	4068.8	4290.2	4337.1	4154.3	3992.6	3951.4	3887.6
55°	3594.1	3612.7	3759.4	4004.5	4316.5	4466.8	4404.0	4253.1	4212.0	4122.9
57.5°	3273.4	3300.2	3513.8	3831.0	4250.6	4554.8	4623.3	4527.0	4487.4	4359.2
60°	2854.8	2897.5	3142.1	3539.6	4082.7	4554.3	4822.6	4796.3	4763.3	4591.9
62.5°	2381.2	2430.6	2665.9	3127.7	3789.3	4425.1	4947.1	5021.8	5004.8	4806.6
65°	1828.7	1862.7	2097.0	2594.8	3332.6	4147.6	4961.6	5175.7	5178.8	4969.8
67.5°	1217.6	1315.4	1518.8	1947.1	2721.0	3694.0	4834.9	5201.0	5230.8	5025.9
70°	594.1	722.8	922.1	1265.5	1947.1	2998.5	4503.9	4994.0	5060.4	4862.2
72.5°	246.6	288.3	396.9	624.5	1117.7	2023.3	3838.7	4432.8	4555.9	4308.2
75°	166.3	180.2	227.0	320.2	509.2	997.8	2768.3	3305.3	3503.5	3253.8
77.5°	128.2	136.9	165.3	224.0	302.7	377.4	1481.7	1991.9	2094.4	1938.9
80°	100.9	107.6	123.6	163.2	214.7	201.8	505.1	902.5	961.7	806.8
82.5°	87.5	90.1	88.6	110.7	142.6	117.9	165.8	333.1	367.6	266.7
85°	63.3	70.5	73.6	68.5	75.7	59.7	68.0	117.9	129.7	115.8
87.5°	25.7	38.1	46.9	44.3	27.8	17.0	21.1	34.5	39.6	43.2
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°
1086.8	0°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8
1087.4	2.5°	1087.9	1091.5	1094.0	1097.1	1099.2	1102.3	1108.5	1112.1	1112.6	1115.2
1095.6	5°	1097.7	1102.8	1108.5	1116.7	1126.0	1133.7	1145.5	1153.8	1156.9	1159.4
1115.7	7.5°	1118.8	1126.0	1136.3	1150.7	1164.1	1174.4	1188.8	1198.6	1208.3	1211.9
1147.6	10°	1150.2	1160.5	1175.4	1195.0	1209.4	1222.8	1237.7	1245.9	1255.7	1259.8
1185.7	12.5°	1189.3	1200.1	1219.7	1247.0	1260.3	1269.6	1274.8	1272.7	1274.8	1278.4
1231.5	15°	1234.1	1245.9	1268.1	1297.4	1306.7	1298.4	1287.1	1276.8	1275.3	1276.3
1287.1	17.5°	1287.1	1295.9	1321.6	1346.3	1339.6	1305.6	1280.9	1264.5	1256.2	1253.6
1358.2	20°	1361.3	1361.3	1382.4	1397.8	1353.0	1295.4	1256.7	1230.0	1213.0	1205.8
1455.0	22.5°	1451.3	1443.1	1456.5	1445.7	1350.4	1266.5	1213.0	1166.6	1140.9	1130.6
1590.4	25°	1565.6	1555.9	1552.3	1485.3	1331.9	1220.7	1133.7	1077.6	1054.9	1049.3
1785.5	27.5°	1738.1	1713.4	1666.6	1507.0	1297.9	1148.6	1041.0	989.0	976.1	976.7
2036.2	30°	1967.7	1918.3	1803.5	1510.6	1242.3	1046.7	946.3	909.2	903.0	905.6
2246.8	32.5°	2180.4	2133.5	1943.5	1494.1	1156.9	946.8	861.3	836.6	827.4	830.4
2407.4	35°	2347.2	2334.3	2073.3	1470.9	1051.8	853.1	785.1	764.0	746.0	741.9
2558.8	37.5°	2504.7	2499.6	2170.6	1438.5	947.8	786.7	723.9	696.1	669.8	655.4
2726.1	40°	2677.7	2672.6	2234.4	1388.5	855.7	729.0	668.8	632.2	599.8	573.5
2915.6	42.5°	2872.3	2841.9	2264.8	1317.0	777.4	680.1	624.0	574.6	531.8	507.6
3129.7	45°	3085.0	3016.5	2264.3	1225.8	711.5	635.3	576.1	506.1	466.4	443.8
3349.6	47.5°	3310.5	3183.3	2236.5	1124.9	647.7	585.9	502.0	448.4	422.2	408.3
3588.5	50°	3543.2	3339.3	2189.1	1009.1	582.3	529.8	455.6	419.1	399.0	386.1
3825.3	52.5°	3762.0	3480.9	2132.0	877.8	515.9	475.2	435.0	406.7	385.6	371.2
4054.9	55°	3965.3	3602.9	2051.1	743.4	461.8	438.6	425.3	401.6	377.4	360.4
4288.1	57.5°	4146.0	3682.2	1911.6	617.3	423.2	413.4	415.0	392.8	365.0	350.6
4517.8	60°	4296.4	3740.4	1705.2	500.4	391.8	388.7	399.0	376.4	343.9	327.4
4711.9	62.5°	4386.5	3739.3	1451.9	409.8	365.0	366.1	377.9	355.8	322.8	307.4
4813.3	65°	4378.8	3647.7	1173.8	350.6	339.3	340.3	355.8	333.1	305.3	296.0
4762.3	67.5°	4223.8	3424.2	900.5	312.0	311.0	315.6	333.6	317.7	294.5	293.5
4458.6	70°	3804.2	2960.4	648.7	281.1	281.6	288.3	312.0	307.9	288.8	290.9
3748.6	72.5°	3050.5	2257.1	435.6	248.7	249.2	260.0	291.4	300.2	283.2	310.5
2659.7	75°	2031.6	1407.6	280.1	214.2	214.7	228.6	273.4	285.2	267.7	309.4
1383.9	77.5°	976.1	632.7	202.8	180.2	180.2	193.1	236.3	255.4	228.1	240.4
444.8	80°	337.2	237.9	159.6	145.2	142.1	150.8	199.2	221.4	196.7	181.2
145.2	82.5°	132.8	123.6	128.2	112.8	102.5	108.1	155.0	182.8	144.7	130.8
81.9	85°	76.2	80.3	90.6	74.7	59.2	66.4	113.8	131.3	109.1	96.3
26.8	87.5°	20.6	28.3	41.7	38.6	26.8	28.3	54.1	72.6	62.8	48.4
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>
1086.8
1114.6
1158.9
1212.5
1261.9
1279.4
1279.9
1257.3
1204.2
1129.1
1050.3
978.2
914.4
834.6
745.0
655.9
576.1
509.2
442.8
405.2
381.5
365.0
353.7
341.3
320.2
302.7
295.5
295.0
290.4
314.6
312.0
220.4
169.9
130.3
98.3
49.9
0.0

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