

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: P947849

Luminaire Tested: **GALN-SB3A-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11860 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

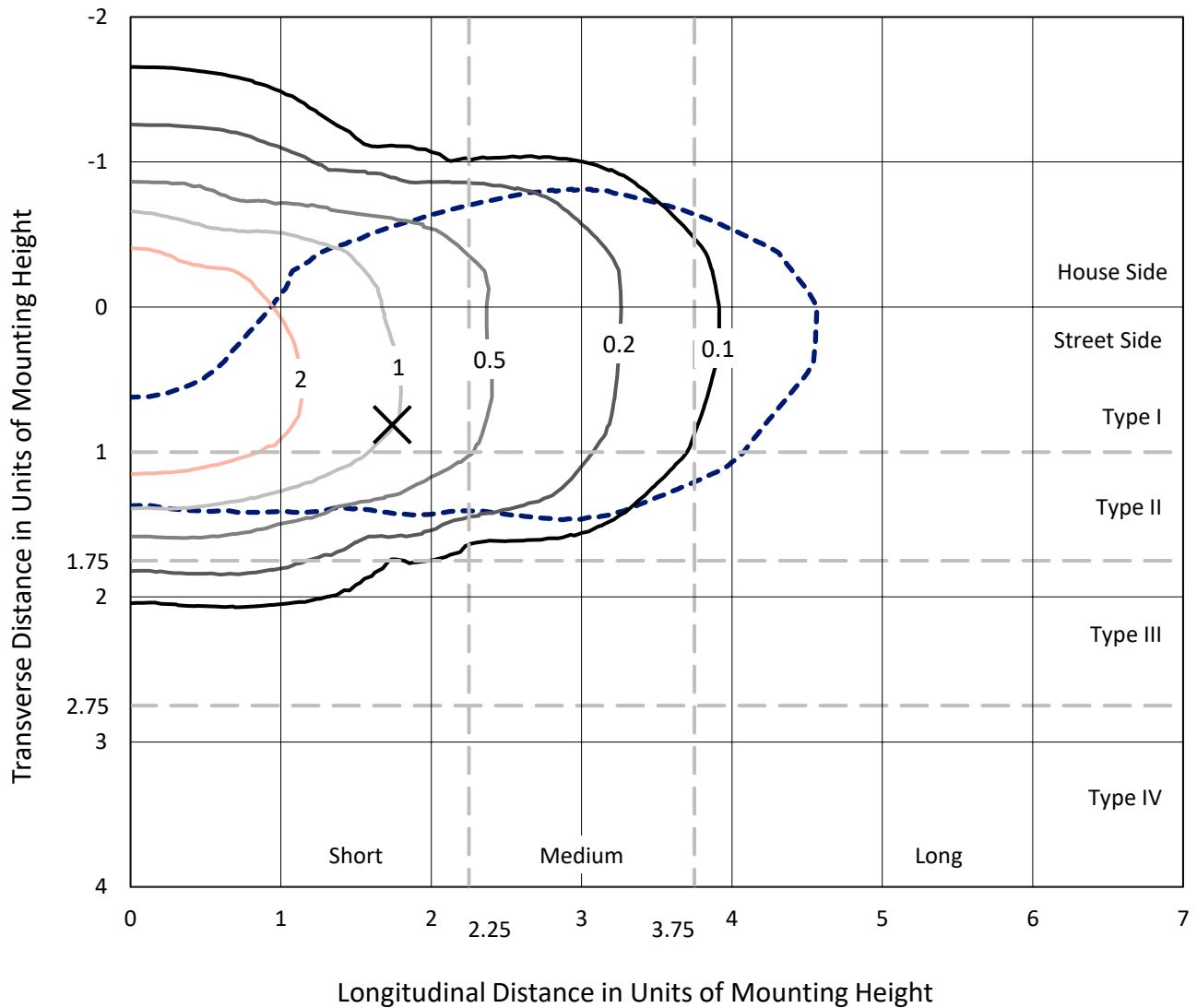
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

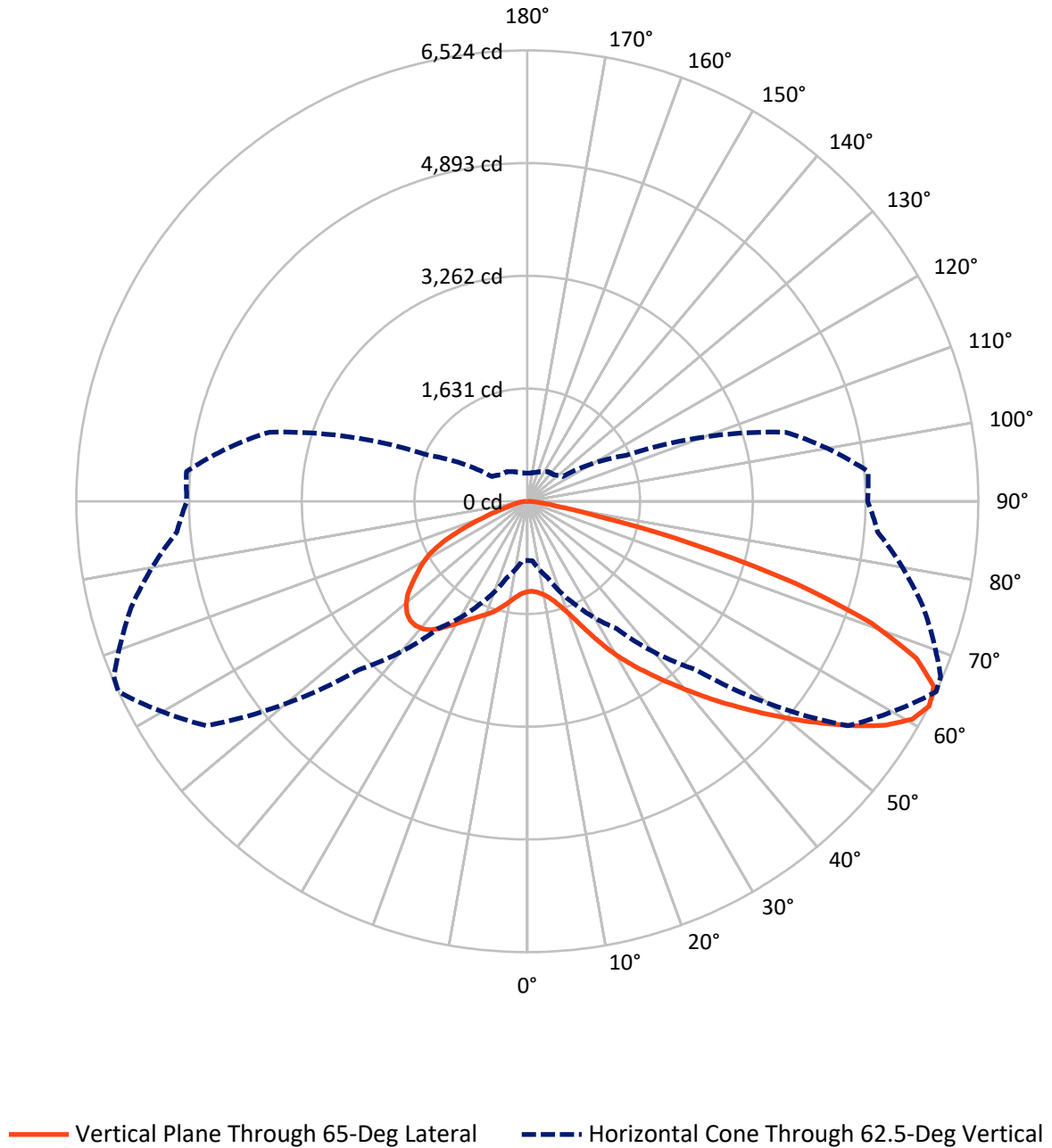
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.5	0.0	3742.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8117.5	0.0	8117.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	11860.0	0.0	11860.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.1
10°-20°	441.9	3.7
20°-30°	895.9	7.6
30°-40°	1550.3	13.1
40°-50°	2346.2	19.8
50°-60°	2750.7	23.2
60°-70°	2306.1	19.4
70°-80°	1273.2	10.7
80°-90°	165.4	1.4
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°	11860.0	100.0
0°-180°	11860.0	100.0



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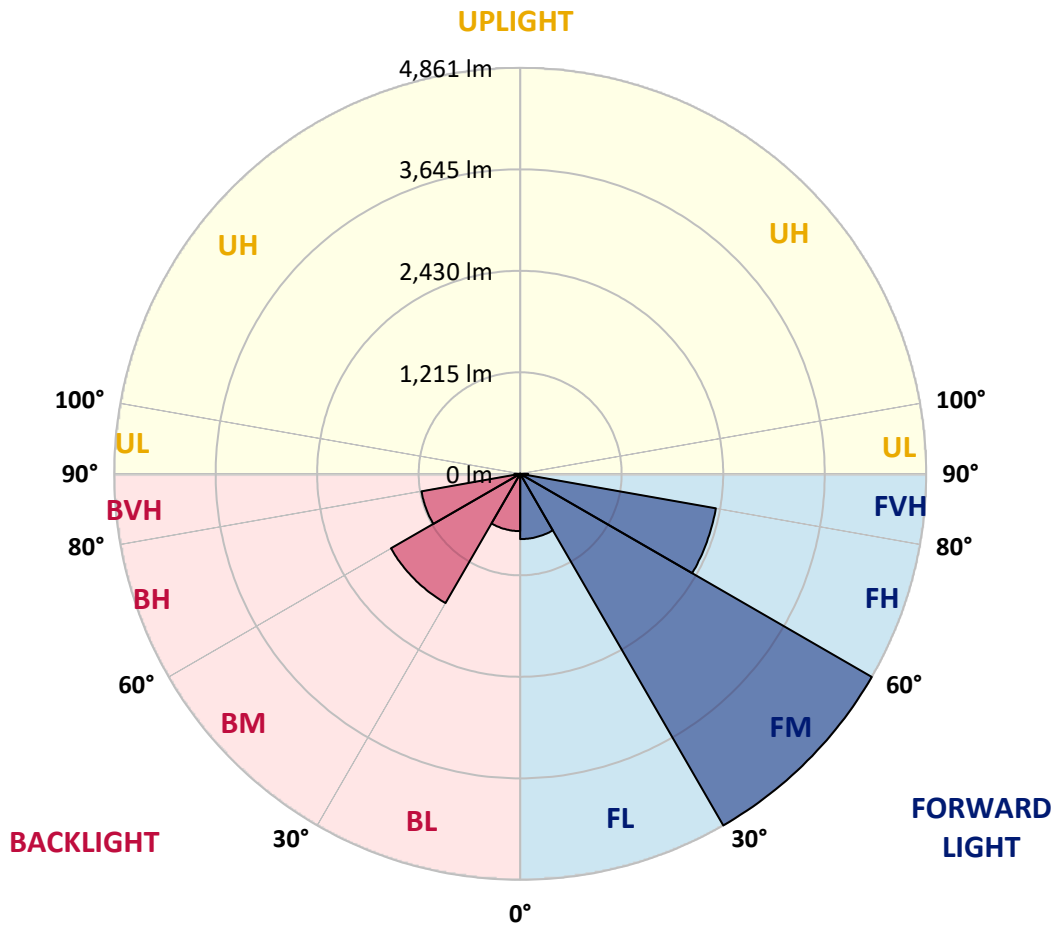
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.7	6.6			
FM (30°-60°)	4860.6	41.0			
FH (60°-80°)	2378.8	20.1			G2/5000
FVH (80°-90°)	96.4	0.8			G1/100
BL (0°-30°)	686.3	5.8	B2/1000		
BM (30°-60°)	1786.6	15.1	B2/2500		
BH (60°-80°)	1200.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	69.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9
2.5°	1298.3	1294.6	1297.7	1297.7	1298.9	1298.3	1302.6	1303.8	1305.7	1309.4
5°	1285.4	1284.8	1290.3	1295.2	1300.2	1304.5	1310.0	1318.0	1319.2	1323.5
7.5°	1281.1	1277.4	1286.0	1292.2	1303.8	1314.3	1329.1	1342.6	1348.1	1350.0
10°	1314.3	1308.2	1316.2	1319.8	1329.7	1340.1	1357.4	1378.9	1385.1	1392.4
12.5°	1370.9	1364.1	1375.8	1381.4	1390.6	1399.8	1411.5	1432.4	1435.5	1449.1
15°	1448.4	1440.4	1447.8	1454.6	1470.0	1478.6	1490.3	1510.6	1510.6	1521.0
17.5°	1553.7	1543.2	1548.7	1551.2	1561.0	1574.0	1593.7	1611.5	1620.7	1617.0
20°	1710.6	1697.6	1697.6	1685.3	1681.6	1692.1	1717.9	1742.6	1752.4	1733.3
22.5°	1946.2	1927.8	1917.3	1875.5	1858.9	1860.1	1885.9	1916.1	1924.1	1890.2
25°	2245.9	2217.0	2202.8	2141.3	2103.7	2071.1	2091.4	2130.2	2141.3	2099.4
27.5°	2545.5	2547.4	2533.9	2460.0	2397.9	2338.2	2327.7	2368.3	2380.0	2332.6
30°	2965.8	2922.1	2896.3	2807.7	2719.1	2635.4	2592.3	2608.9	2612.0	2555.4
32.5°	3328.2	3317.1	3261.8	3184.2	3070.4	2939.3	2867.3	2840.9	2836.0	2755.4
35°	3741.1	3734.9	3676.5	3584.2	3461.1	3279.0	3149.2	3073.5	3067.3	2954.1
37.5°	4160.7	4160.7	4103.5	4002.6	3875.2	3647.6	3450.0	3330.1	3310.4	3162.7
40°	4495.5	4475.2	4485.6	4443.2	4297.3	4055.5	3784.2	3610.0	3583.6	3406.4
42.5°	4685.6	4678.8	4741.6	4789.0	4729.3	4536.1	4152.1	3913.4	3876.5	3674.6
45°	4728.0	4720.7	4832.7	5006.2	5089.9	5010.5	4552.1	4232.7	4187.8	3955.2
47.5°	4630.2	4615.4	4779.7	5053.5	5321.8	5461.5	4985.2	4579.1	4513.9	4228.4
50°	4336.1	4321.9	4570.5	4934.2	5400.0	5767.9	5455.3	4946.5	4846.8	4521.3
52.5°	3696.8	3703.6	4093.0	4592.7	5297.2	5958.7	5860.2	5333.5	5213.5	4821.0
55°	2879.7	2894.4	3373.1	3923.2	4886.2	5929.8	6136.5	5732.2	5612.9	5102.8
57.5°	2061.9	2127.1	2575.7	3120.2	4096.7	5471.3	6196.8	6111.3	5995.6	5410.4
60°	1336.5	1348.1	1809.6	2358.5	3119.6	4656.7	6074.4	6398.6	6308.2	5724.2
62.5°	856.5	864.5	1145.7	1649.6	2245.3	3445.1	5662.1	6523.5	6495.8	5931.6
65°	629.5	623.3	769.8	1090.3	1512.4	2124.7	4861.6	6463.2	6518.0	6061.4
67.5°	525.5	516.9	588.9	755.0	1114.3	1206.6	3597.1	6071.3	6271.9	6046.7
70°	478.7	471.3	515.0	560.5	869.4	807.9	1813.3	5278.1	5587.0	5878.7
72.5°	405.5	392.6	452.3	497.8	676.2	619.6	749.4	4054.3	4430.9	5340.3
75°	314.4	305.8	356.9	438.1	508.2	483.6	473.8	2461.9	2872.9	4130.0
77.5°	249.2	237.5	284.3	341.5	457.2	364.9	345.2	1060.2	1467.5	2636.6
80°	187.7	177.2	216.0	270.1	351.3	275.0	223.4	432.6	553.2	1335.8
82.5°	133.5	124.3	150.8	198.1	236.3	246.7	137.2	242.4	272.6	515.0
85°	85.5	80.0	100.9	124.3	150.1	158.8	83.7	126.8	139.1	212.3
87.5°	46.8	38.1	54.1	57.8	69.5	63.4	40.0	46.1	49.8	76.9
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°
1306.9	0°	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9	1306.9
1309.4	2.5°	1311.8	1313.7	1319.8	1321.7	1326.0	1331.5	1335.2	1338.9	1338.9	1342.6
1329.1	5°	1329.7	1334.0	1346.9	1353.7	1364.8	1375.8	1382.6	1390.6	1395.5	1398.0
1360.5	7.5°	1364.1	1370.9	1389.4	1401.1	1420.1	1435.5	1446.0	1457.1	1459.5	1466.3
1404.1	10°	1410.9	1418.9	1439.8	1462.0	1484.7	1503.8	1513.7	1521.7	1524.7	1526.0
1460.1	12.5°	1464.4	1476.1	1503.2	1530.3	1554.3	1570.9	1573.4	1571.5	1562.9	1555.5
1529.0	15°	1530.3	1540.7	1570.9	1600.4	1623.8	1626.9	1611.5	1601.7	1591.2	1589.3
1606.0	17.5°	1609.0	1614.6	1642.3	1671.2	1673.0	1662.6	1639.8	1630.6	1620.7	1614.0
1706.3	20°	1700.7	1698.9	1718.6	1730.9	1717.9	1686.0	1651.5	1636.1	1626.3	1618.3
1829.3	22.5°	1810.2	1796.1	1793.6	1790.6	1756.1	1689.0	1642.3	1622.6	1607.2	1596.1
2001.0	25°	1969.6	1915.5	1877.9	1857.0	1779.5	1672.4	1612.7	1569.0	1540.1	1521.0
2210.8	27.5°	2169.0	2077.9	1983.1	1932.1	1779.5	1638.6	1541.4	1470.6	1423.2	1403.5
2413.9	30°	2359.1	2263.7	2124.1	2022.5	1775.2	1583.2	1426.3	1327.8	1272.5	1252.8
2587.4	32.5°	2521.5	2417.6	2273.6	2121.6	1764.7	1493.4	1283.5	1174.6	1121.1	1097.7
2759.1	35°	2672.3	2561.5	2423.7	2230.5	1737.0	1361.7	1126.6	1043.6	983.9	946.3
2933.8	37.5°	2826.7	2695.1	2565.8	2329.0	1687.2	1207.9	1006.0	935.3	865.1	814.7
3119.6	40°	2994.7	2837.2	2717.8	2387.4	1605.3	1061.4	912.5	847.9	773.4	719.9
3333.8	42.5°	3191.0	3007.6	2887.0	2417.6	1493.4	957.4	851.6	788.2	718.1	674.4
3563.3	45°	3395.9	3195.3	3041.5	2416.9	1368.5	908.8	831.9	769.1	691.6	646.1
3798.9	47.5°	3610.6	3391.6	3175.0	2377.6	1260.2	915.6	820.8	727.9	642.4	598.1
4037.1	50°	3826.0	3606.3	3304.2	2303.7	1214.0	900.8	779.6	670.1	569.2	529.2
4260.4	52.5°	4039.5	3834.6	3415.6	2198.5	1167.2	846.1	726.7	595.0	539.0	511.3
4491.2	55°	4254.3	4060.4	3536.8	2045.3	1050.3	782.1	638.1	566.7	515.0	489.8
4717.0	57.5°	4469.6	4321.3	3651.9	1892.1	903.3	703.3	589.5	532.2	491.0	469.5
4905.9	60°	4693.6	4619.8	3770.6	1751.2	758.1	602.4	553.8	504.6	462.7	438.7
5087.4	62.5°	4924.3	4948.3	3863.5	1569.7	624.5	540.9	521.8	471.3	430.7	408.0
5237.5	65°	5156.9	5265.2	3924.5	1318.0	506.4	482.4	487.3	435.0	393.8	374.1
5347.7	67.5°	5332.3	5493.5	3907.2	997.4	415.3	427.0	444.3	396.9	358.1	342.7
5329.8	70°	5352.0	5466.4	3737.4	683.0	347.7	372.9	396.3	359.3	319.3	308.3
5078.8	72.5°	5089.9	5097.2	3264.2	446.1	294.1	327.3	345.8	321.2	282.4	271.4
4443.2	75°	4402.6	4215.5	2396.6	294.1	246.1	281.2	298.4	281.2	243.7	246.1
3324.5	77.5°	3335.6	2985.5	1455.2	209.2	205.5	236.3	259.7	247.4	215.4	241.8
1671.8	80°	1718.6	1615.2	649.2	156.3	162.4	188.9	213.5	197.5	170.4	162.4
373.5	82.5°	393.8	457.8	256.0	112.0	117.5	136.0	163.1	148.3	122.4	103.4
155.7	85°	137.8	150.8	113.2	70.1	68.9	84.9	110.8	99.1	83.1	66.5
65.8	87.5°	43.7	57.2	42.5	28.3	29.5	38.1	51.1	46.8	38.8	25.2
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>
1306.9
1342.6
1399.2
1463.8
1522.9
1555.5
1589.3
1614.6
1618.9
1599.8
1528.4
1413.4
1264.5
1109.4
958.7
828.2
730.4
683.0
653.5
604.2
531.6
511.3
487.3
465.8
436.9
407.3
373.5
343.3
308.9
270.7
237.5
212.9
148.3
102.1
70.1
26.5
0.0

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