

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: P947784

Luminaire Tested: **GALN-SB3A-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14503 lumens
Efficiency: N/A
Efficacy: 171.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

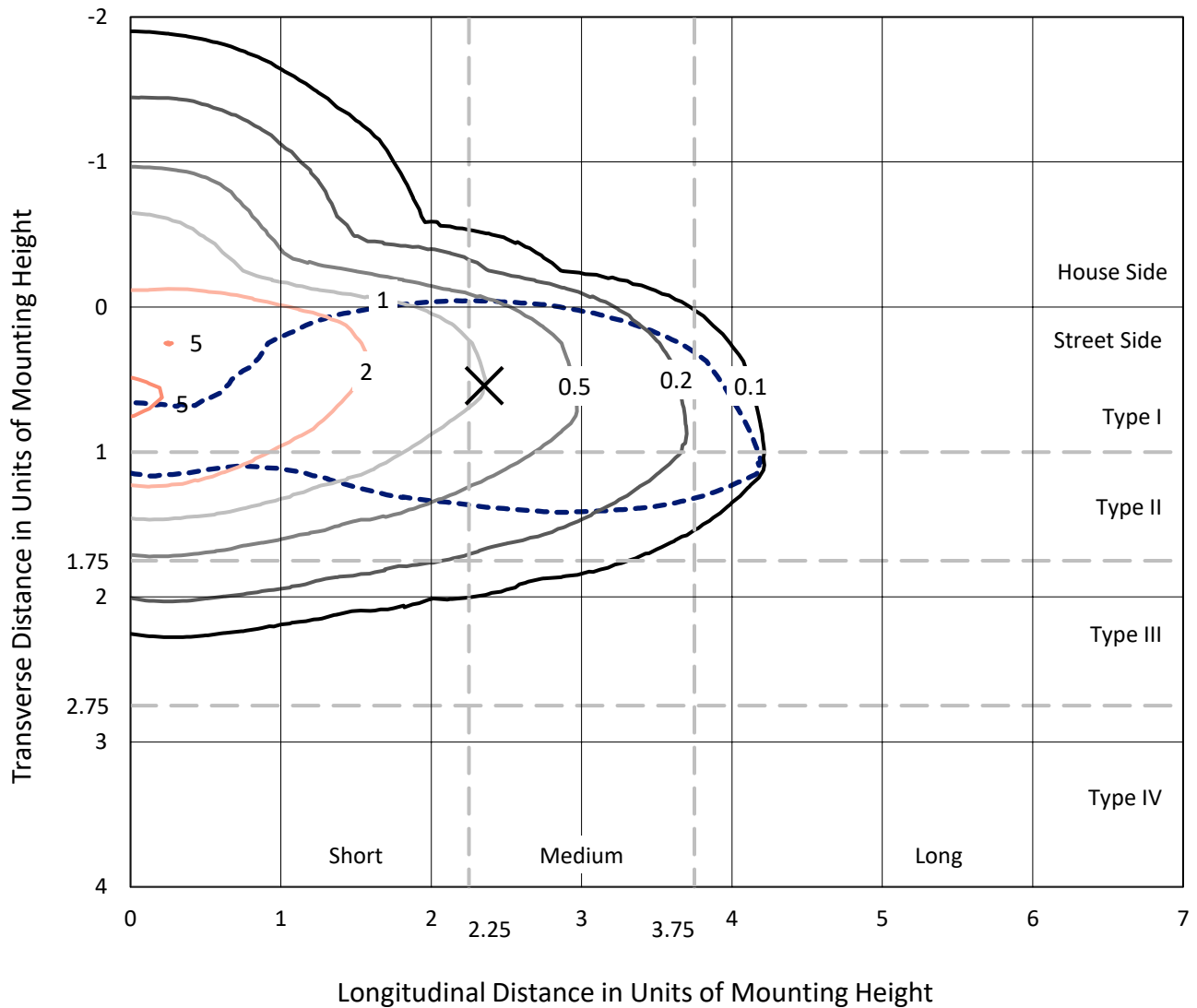
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

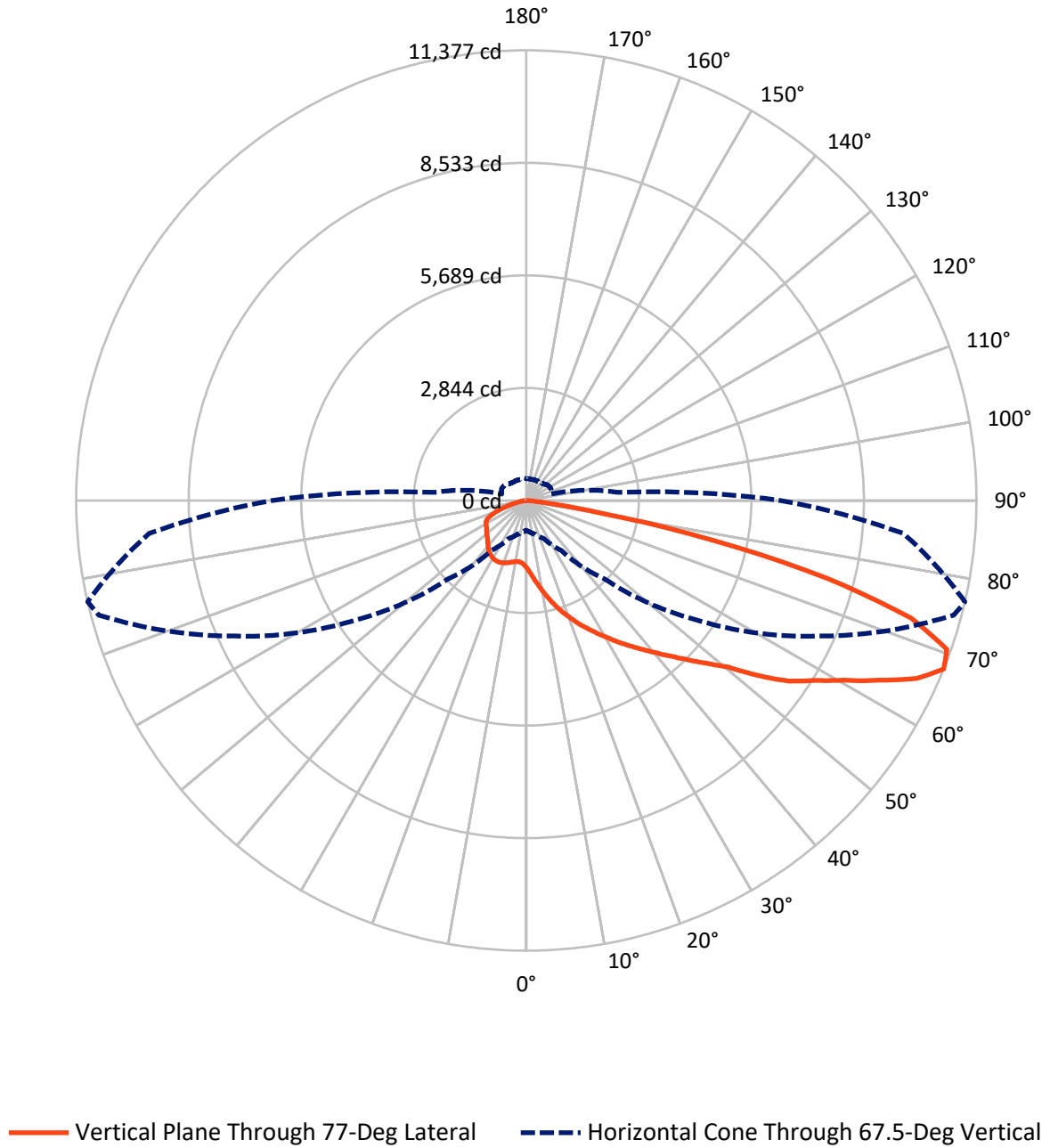
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2743.4	0.0	2743.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	11759.6	0.0	11759.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	14503.0	0.0	14503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	1.3
10°-20°	655.3	4.5
20°-30°	1237.2	8.5
30°-40°	1993.1	13.7
40°-50°	2726.2	18.8
50°-60°	3075.2	21.2
60°-70°	2870.3	19.8
70°-80°	1573.4	10.8
80°-90°	189.8	1.3
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°	14503.0	100.0
0°-180°	14503.0	100.0

Coefficient of Utilization



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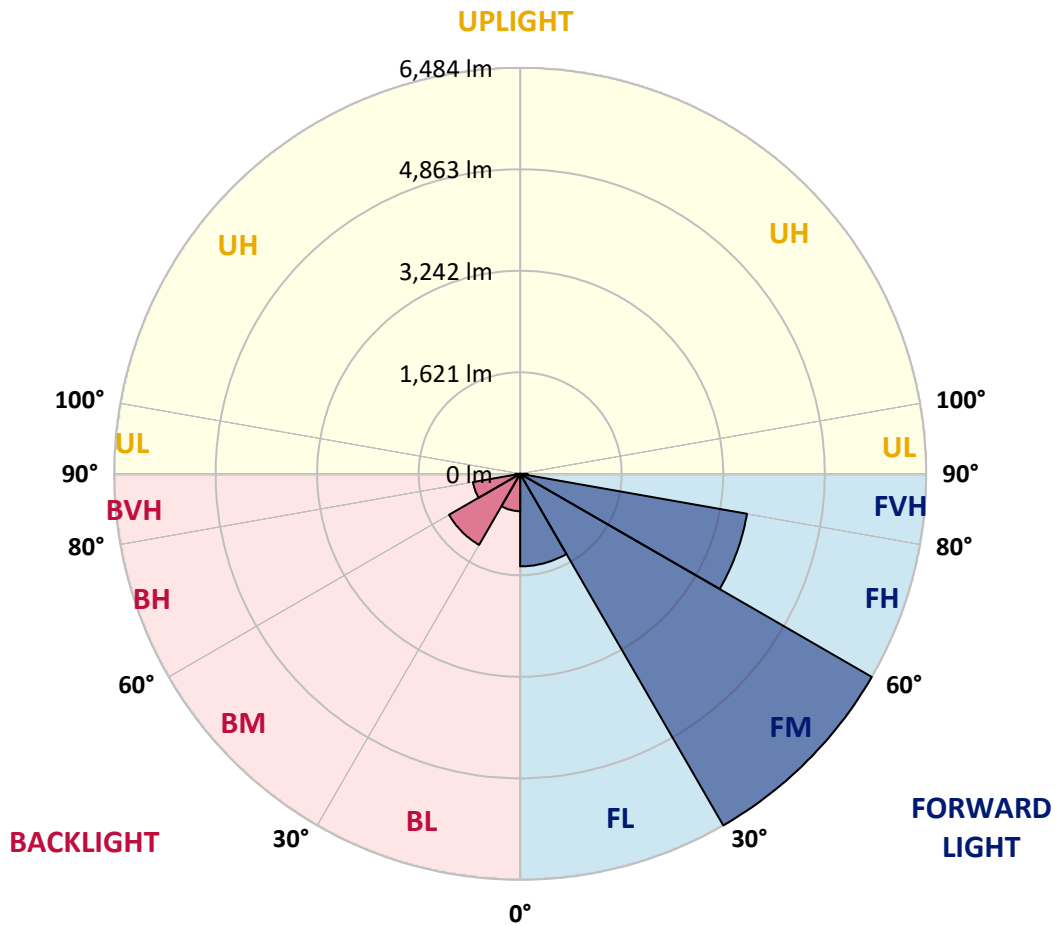
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1478.4	10.2			
FM (30°-60°)	6484.1	44.7			
FH (60°-80°)	3678.4	25.4			G2/5000
FVH (80°-90°)	118.7	0.8			G2/225
BL (0°-30°)	596.5	4.1	B2/1000		
BM (30°-60°)	1310.4	9.0	B2/2500		
BH (60°-80°)	765.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	71.1	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7
2.5°	2130.6	2145.6	2126.9	2126.9	2064.0	2031.1	1968.2	1920.3	1834.2	1819.2
5°	2518.4	2537.1	2510.9	2499.7	2425.6	2357.5	2251.9	2147.8	1994.4	1978.6
7.5°	2818.6	2842.6	2819.4	2807.4	2741.5	2665.1	2541.6	2396.4	2180.0	2149.3
10°	3063.4	3067.2	3059.7	3064.2	3012.5	2949.6	2823.1	2653.9	2383.7	2341.7
12.5°	3201.9	3219.1	3234.1	3261.1	3252.1	3213.2	3099.4	2897.2	2599.3	2545.4
15°	3267.1	3297.0	3330.7	3392.8	3443.0	3452.7	3365.9	3158.5	2818.6	2753.5
17.5°	3290.3	3318.7	3371.9	3461.7	3569.5	3642.1	3603.2	3412.3	3035.7	2960.9
20°	3407.8	3416.0	3448.2	3533.6	3650.4	3770.9	3800.1	3656.3	3250.6	3166.0
22.5°	3659.3	3642.9	3651.9	3690.8	3774.6	3891.4	3958.0	3872.0	3471.4	3374.1
25°	4074.8	4026.9	3979.0	3934.1	3976.8	4042.6	4118.3	4087.6	3702.8	3579.2
27.5°	4599.6	4541.2	4435.7	4288.2	4236.5	4259.7	4293.4	4287.4	3916.9	3791.8
30°	5116.2	5048.1	4922.3	4708.9	4572.7	4511.3	4485.8	4468.6	4149.7	4016.4
32.5°	5528.7	5474.8	5351.3	5112.4	4914.8	4810.0	4725.4	4664.0	4393.0	4259.7
35°	5889.5	5839.4	5697.9	5437.4	5222.5	5110.9	5000.1	4869.1	4646.0	4511.3
37.5°	6218.9	6168.8	5974.9	5703.9	5487.5	5410.4	5311.6	5089.2	4899.8	4772.6
40°	6427.1	6415.8	6234.7	5927.7	5703.1	5664.9	5632.0	5344.5	5181.3	5063.0
42.5°	6480.2	6504.9	6361.2	6108.9	5894.8	5864.1	5941.2	5633.5	5497.2	5384.2
45°	6352.2	6423.3	6329.0	6157.5	6031.0	6014.6	6215.2	5949.4	5846.9	5743.5
47.5°	6028.0	6148.6	6109.6	6085.7	6067.7	6138.8	6456.2	6284.8	6242.9	6153.0
50°	5373.7	5602.1	5670.2	5821.4	5995.1	6235.4	6675.6	6650.9	6705.5	6615.0
52.5°	4242.5	4557.0	4952.2	5331.0	5772.0	6203.2	6916.7	7176.4	7407.0	7357.6
55°	3502.1	3643.6	3947.6	4642.3	5339.3	6067.7	7025.2	7600.9	8103.2	8059.1
57.5°	2933.2	3059.7	3246.8	3827.0	4685.0	5760.0	7092.6	7859.9	8580.1	8575.6
60°	2323.0	2457.0	2648.7	3059.7	3920.6	5228.5	7077.6	8154.9	9188.8	9226.2
62.5°	1634.3	1781.8	1994.4	2377.7	3139.8	4539.7	6772.2	8368.3	9905.2	10007.0
65°	1074.3	1171.6	1331.8	1662.7	2339.5	3654.1	6189.0	8396.0	10671.8	10844.0
67.5°	753.1	790.6	884.9	1064.6	1542.2	2802.1	5259.9	8109.2	11183.1	11377.0
70°	587.7	606.4	654.3	726.2	968.7	1884.3	4030.7	7363.6	11073.8	11276.0
72.5°	507.6	525.5	543.5	552.5	649.8	1163.4	2730.3	6156.8	10044.5	10181.5
75°	460.4	464.9	479.9	476.9	495.6	754.6	1575.9	4485.8	7925.1	7877.9
77.5°	387.0	393.0	417.7	414.0	440.2	515.8	818.3	2895.0	5137.9	4817.5
80°	327.9	330.9	357.8	353.4	382.6	373.6	417.7	1475.6	2179.3	1846.1
82.5°	113.8	140.7	273.3	281.5	292.0	226.1	241.1	601.9	665.5	509.8
85°	55.4	59.1	139.2	197.6	196.9	113.8	117.5	214.9	209.6	164.7
87.5°	9.0	11.2	16.5	77.1	61.4	29.9	40.4	41.9	43.4	37.4
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°
1701.7	0°	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7
1762.3	2.5°	1720.4	1682.9	1604.3	1531.7	1474.8	1420.2	1389.5	1363.3	1348.3	1345.3
1844.6	5°	1766.8	1689.7	1546.7	1426.2	1347.5	1289.2	1258.5	1239.0	1229.3	1223.3
1955.4	7.5°	1833.4	1720.4	1516.7	1379.7	1297.4	1255.5	1239.7	1236.7	1236.0	1236.7
2089.4	10°	1925.5	1770.5	1513.7	1368.5	1299.6	1276.4	1275.7	1276.4	1279.4	1280.2
2235.4	12.5°	2025.1	1822.2	1525.7	1378.2	1328.1	1315.4	1313.1	1312.4	1314.6	1316.1
2382.9	15°	2133.6	1890.3	1545.9	1399.2	1359.5	1346.0	1343.8	1339.3	1338.6	1337.8
2537.9	17.5°	2245.2	1957.7	1568.4	1421.7	1379.7	1361.0	1352.8	1342.3	1334.1	1331.8
2698.1	20°	2358.2	2024.3	1584.1	1432.9	1381.2	1355.0	1338.6	1320.6	1306.4	1298.1
2859.8	22.5°	2478.7	2093.9	1593.8	1429.9	1367.8	1331.8	1301.9	1280.9	1259.2	1245.0
3023.0	25°	2596.3	2154.6	1593.1	1414.2	1341.6	1295.9	1257.7	1230.8	1200.8	1185.8
3191.4	27.5°	2709.3	2209.2	1574.4	1386.5	1304.1	1253.2	1207.6	1175.4	1146.2	1131.9
3361.4	30°	2826.1	2254.9	1545.2	1346.0	1260.0	1203.8	1153.7	1126.0	1099.7	1086.3
3541.1	32.5°	2942.1	2296.8	1504.0	1295.9	1209.0	1155.1	1105.7	1080.3	1064.6	1064.6
3734.2	35°	3064.9	2326.0	1449.4	1237.5	1155.1	1103.5	1064.6	1049.6	1048.1	1039.1
3938.6	37.5°	3194.4	2344.7	1382.7	1177.6	1102.0	1053.3	1041.4	1023.4	1008.4	988.9
4163.2	40°	3330.7	2363.4	1302.6	1115.5	1045.8	1018.9	1013.7	989.7	947.0	899.1
4417.7	42.5°	3496.1	2376.2	1219.5	1053.3	986.7	977.7	985.2	944.0	875.9	840.0
4724.6	45°	3687.8	2397.1	1143.2	991.9	926.1	926.1	957.5	903.6	847.5	825.0
5075.0	47.5°	3936.3	2445.8	1072.0	924.6	869.9	884.9	896.1	854.9	823.5	795.8
5501.7	50°	4295.7	2562.6	998.7	856.4	827.2	857.2	841.5	817.5	780.8	758.4
6180.0	52.5°	4741.9	2631.5	933.6	795.1	790.6	820.5	798.0	775.6	747.9	717.9
6694.3	55°	5045.8	2644.2	878.9	750.1	765.9	762.9	754.6	734.4	719.4	679.8
7201.9	57.5°	5385.7	2669.6	834.0	723.2	750.1	717.2	714.2	697.0	677.5	650.6
7821.0	60°	5792.2	2709.3	795.1	712.7	736.7	687.2	672.3	665.5	646.1	632.6
8565.9	62.5°	6235.4	2745.3	755.4	714.2	720.9	658.1	635.6	633.3	621.4	616.9
9265.1	65°	6537.8	2647.2	706.0	712.7	696.2	628.1	599.7	598.9	589.2	587.7
9568.3	67.5°	6432.3	2336.5	639.3	691.7	670.8	598.2	566.7	563.7	551.0	551.7
9251.7	70°	5903.8	1893.3	547.3	640.1	639.3	571.2	532.3	522.5	505.3	508.3
8044.1	72.5°	4912.6	1402.9	423.7	554.0	589.2	546.5	492.6	476.9	455.2	458.2
5938.2	75°	3547.8	953.8	308.4	421.5	512.8	517.3	453.7	426.7	400.5	405.0
3305.2	77.5°	1815.4	540.5	226.8	290.5	402.8	470.1	418.5	382.6	376.6	418.5
953.0	80°	592.2	271.0	157.2	203.6	264.3	384.8	366.8	325.7	324.2	333.9
199.9	82.5°	176.7	114.5	101.1	134.0	146.0	295.0	316.7	246.3	211.9	223.1
66.6	85°	60.6	55.4	57.6	66.6	69.6	172.9	221.6	163.2	154.2	169.9
15.0	87.5°	14.2	19.5	16.5	15.0	15.0	41.9	86.1	68.1	94.3	62.9
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>
1701.7
1345.3
1222.5
1239.0
1280.9
1316.9
1337.1
1334.1
1301.1
1245.7
1185.8
1131.2
1085.5
1065.3
1036.9
986.0
892.4
840.7
828.7
795.1
756.1
712.0
680.5
641.6
636.3
616.9
586.9
551.7
511.3
457.4
406.5
412.5
286.7
230.6
167.7
60.6
0.0

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