

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: P949191

Luminaire Tested: **GALN-SB4A-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949191
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-SB4A-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18311 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

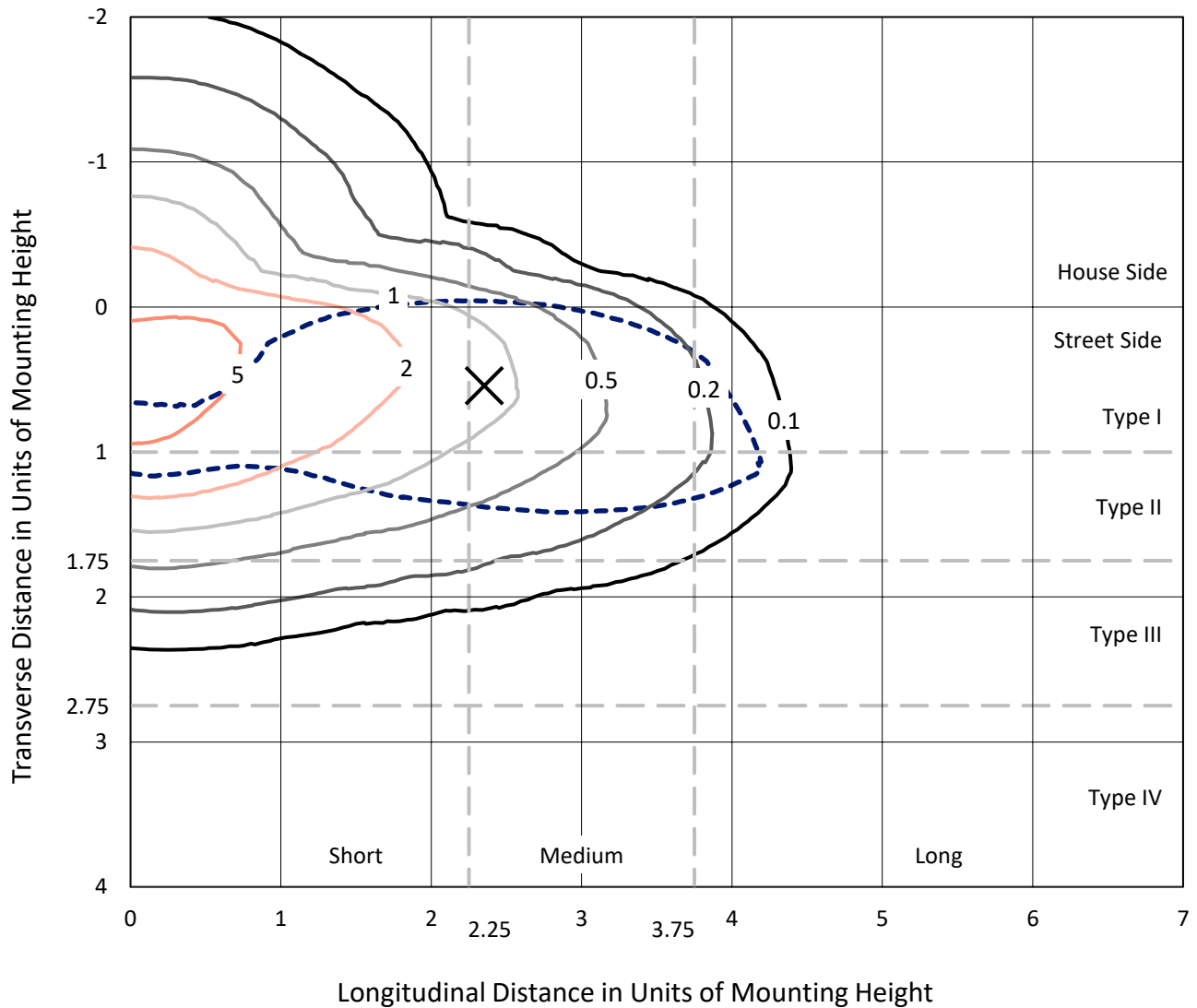
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

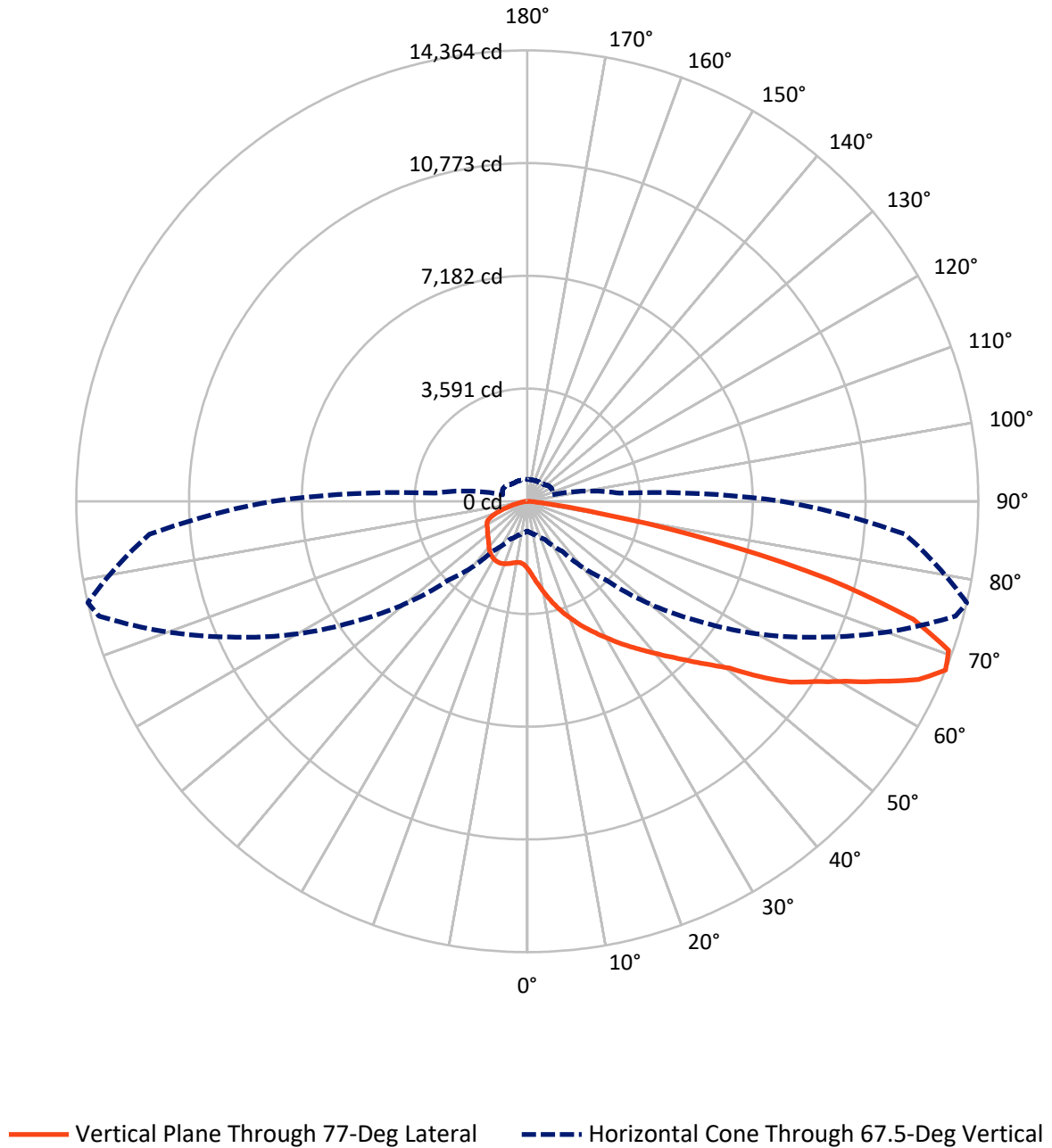
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3463.7	0.0	3463.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	14847.3	0.0	14847.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	18311.0	0.0	18311.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	1.3
10°-20°	827.3	4.5
20°-30°	1562.1	8.5
30°-40°	2516.5	13.7
40°-50°	3442.1	18.8
50°-60°	3882.7	21.2
60°-70°	3624.0	19.8
70°-80°	1986.6	10.8
80°-90°	239.6	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°	18311.0	100.0
0°-180°	18311.0	100.0



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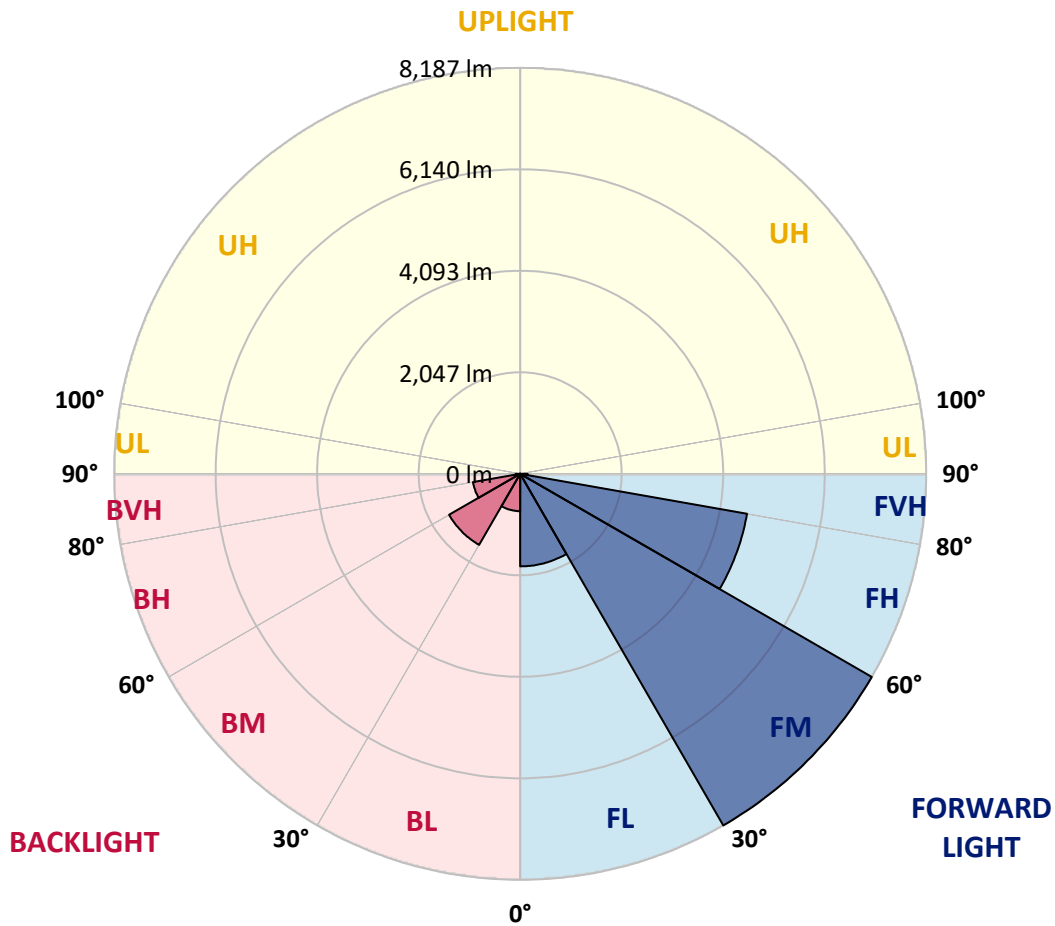
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1866.6	10.2			
FM (30°-60°)	8186.7	44.7			
FH (60°-80°)	4644.2	25.4			G2/5000
FVH (80°-90°)	149.9	0.8			G2/225
BL (0°-30°)	753.1	4.1	B2/1000		
BM (30°-60°)	1654.5	9.0	B2/2500		
BH (60°-80°)	966.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	89.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4
2.5°	2690.1	2709.0	2685.3	2685.3	2605.9	2564.3	2484.9	2424.4	2315.8	2296.8
5°	3179.7	3203.3	3170.2	3156.0	3062.5	2976.4	2843.2	2711.8	2518.0	2498.2
7.5°	3558.7	3588.9	3559.6	3544.5	3461.3	3364.9	3209.0	3025.6	2752.4	2713.7
10°	3867.8	3872.5	3863.0	3868.7	3803.5	3724.1	3564.4	3350.7	3009.5	2956.6
12.5°	4042.6	4064.4	4083.3	4117.3	4106.0	4056.8	3913.1	3657.9	3281.7	3213.7
15°	4124.9	4162.7	4205.2	4283.7	4347.0	4359.3	4249.6	3987.8	3558.7	3476.5
17.5°	4154.2	4190.1	4257.2	4370.6	4506.7	4598.4	4549.3	4308.2	3832.8	3738.3
20°	4302.6	4313.0	4353.6	4461.4	4608.8	4761.0	4797.9	4616.4	4104.1	3997.3
22.5°	4620.2	4599.4	4610.7	4659.9	4765.7	4913.2	4997.3	4888.6	4382.9	4260.0
25°	5144.7	5084.3	5023.8	4967.0	5020.9	5104.1	5199.6	5160.8	4675.0	4519.0
27.5°	5807.3	5733.6	5600.3	5414.1	5348.9	5378.2	5420.7	5413.2	4945.3	4787.5
30°	6459.5	6373.5	6214.7	5945.3	5773.3	5695.8	5663.7	5641.9	5239.3	5071.0
32.5°	6980.3	6912.3	6756.3	6454.8	6205.3	6072.9	5966.1	5888.6	5546.5	5378.2
35°	7435.9	7372.6	7193.9	6865.0	6593.7	6452.9	6313.0	6147.6	5865.9	5695.8
37.5°	7851.8	7788.5	7543.7	7201.5	6928.3	6831.0	6706.2	6425.5	6186.4	6025.7
40°	8114.6	8100.4	7871.7	7484.1	7200.6	7152.4	7110.8	6747.8	6541.8	6392.4
42.5°	8181.7	8212.9	8031.4	7712.9	7442.5	7403.8	7501.1	7112.7	6940.6	6797.9
45°	8020.1	8109.9	7990.8	7774.3	7614.6	7593.8	7847.1	7511.5	7382.0	7251.6
47.5°	7610.8	7763.0	7713.8	7683.6	7660.9	7750.7	8151.4	7935.0	7882.1	7768.6
50°	6784.7	7073.0	7159.0	7349.9	7569.2	7872.6	8428.4	8397.2	8466.2	8351.8
52.5°	5356.5	5753.5	6252.5	6730.8	7287.5	7832.0	8732.7	9060.7	9351.9	9289.5
55°	4421.7	4600.3	4984.1	5861.2	6741.2	7660.9	8869.8	9596.7	10230.9	10175.1
57.5°	3703.3	3863.0	4099.4	4831.9	5915.1	7272.4	8954.9	9923.7	10833.0	10827.3
60°	2933.0	3102.2	3344.1	3863.0	4950.0	6601.3	8936.0	10296.1	11601.4	11648.7
62.5°	2063.4	2249.6	2518.0	3002.0	3964.2	5731.7	8550.3	10565.5	12506.0	12634.5
65°	1356.4	1479.2	1681.5	2099.3	2953.8	4613.5	7814.0	10600.5	13473.9	13691.3
67.5°	950.9	998.1	1117.2	1344.1	1947.1	3537.9	6641.0	10238.5	14119.5	14364.3
70°	742.0	765.6	826.1	916.8	1223.1	2379.1	5089.0	9297.0	13981.5	14236.7
72.5°	640.8	663.5	686.2	697.6	820.4	1468.8	3447.2	7773.4	12681.8	12854.8
75°	581.3	587.0	605.9	602.1	625.7	952.8	1989.7	5663.7	10005.9	9946.4
77.5°	488.7	496.2	527.4	522.7	555.8	651.2	1033.1	3655.1	6486.9	6082.4
80°	414.0	417.8	451.8	446.1	483.0	471.7	527.4	1863.0	2751.5	2330.9
82.5°	143.7	177.7	345.0	355.4	368.6	285.5	304.4	759.9	840.3	643.7
85°	69.9	74.7	175.8	249.5	248.6	143.7	148.4	271.3	264.7	207.9
87.5°	11.3	14.2	20.8	97.4	77.5	37.8	51.0	52.9	54.8	47.3
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°
2148.4	0°	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4
2225.0	2.5°	2172.1	2124.8	2025.6	1933.9	1862.1	1793.1	1754.3	1721.2	1702.3	1698.5
2329.0	5°	2230.7	2133.3	1952.8	1800.6	1701.4	1627.6	1588.9	1564.3	1552.0	1544.5
2468.9	7.5°	2314.8	2172.1	1915.0	1742.0	1638.0	1585.1	1565.3	1561.5	1560.5	1561.5
2638.1	10°	2431.1	2235.4	1911.2	1727.8	1640.9	1611.6	1610.6	1611.6	1615.4	1616.3
2822.4	12.5°	2556.8	2300.6	1926.3	1740.1	1676.8	1660.7	1657.9	1656.9	1659.8	1661.7
3008.6	15°	2693.8	2386.6	1951.8	1766.6	1716.5	1699.5	1696.6	1691.0	1690.0	1689.1
3204.2	17.5°	2834.7	2471.7	1980.2	1794.9	1742.0	1718.4	1708.0	1694.8	1684.4	1681.5
3406.5	20°	2977.4	2555.8	2000.1	1809.1	1743.9	1710.8	1690.0	1667.3	1649.4	1639.0
3610.7	22.5°	3129.6	2643.7	2012.3	1805.3	1726.9	1681.5	1643.7	1617.2	1589.8	1571.9
3816.7	25°	3278.0	2720.3	2011.4	1785.5	1693.8	1636.1	1587.9	1553.9	1516.1	1497.2
4029.4	27.5°	3420.7	2789.3	1987.8	1750.5	1646.5	1582.3	1524.6	1484.0	1447.1	1429.1
4244.0	30°	3568.1	2847.0	1950.9	1699.5	1590.8	1519.9	1456.6	1421.6	1388.5	1371.5
4470.8	32.5°	3714.7	2899.9	1898.9	1636.1	1526.5	1458.5	1396.1	1363.9	1344.1	1344.1
4714.7	35°	3869.7	2936.7	1829.9	1562.4	1458.5	1393.2	1344.1	1325.2	1323.3	1311.9
4972.7	37.5°	4033.2	2960.4	1745.8	1486.8	1391.3	1329.9	1314.8	1292.1	1273.2	1248.6
5256.3	40°	4205.2	2984.0	1644.7	1408.4	1320.5	1286.4	1279.8	1249.6	1195.7	1135.2
5577.7	42.5°	4414.1	3000.1	1539.7	1329.9	1245.8	1234.4	1243.9	1191.9	1105.9	1060.5
5965.2	45°	4656.1	3026.5	1443.3	1252.4	1169.2	1169.2	1208.9	1140.9	1070.0	1041.6
6407.5	47.5°	4969.9	3088.0	1353.5	1167.3	1098.3	1117.2	1131.4	1079.4	1039.7	1004.8
6946.3	50°	5423.6	3235.4	1260.9	1081.3	1044.5	1082.3	1062.4	1032.2	985.8	957.5
7802.7	52.5°	5986.9	3322.4	1178.7	1003.8	998.1	1035.9	1007.6	979.2	944.3	906.5
8452.0	55°	6370.7	3338.5	1109.7	947.1	966.9	963.2	952.8	927.2	908.3	858.2
9092.9	57.5°	6799.8	3370.6	1053.0	913.1	947.1	905.5	901.7	880.0	855.4	821.4
9874.5	60°	7313.0	3420.7	1003.8	899.8	930.1	867.7	848.8	840.3	815.7	798.7
10815.0	62.5°	7872.6	3466.1	953.7	901.7	910.2	830.8	802.5	799.6	784.5	778.8
11697.8	65°	8254.5	3342.2	891.3	899.8	879.0	793.0	757.1	756.2	743.9	742.0
12080.7	67.5°	8121.2	2950.0	807.2	873.4	846.9	755.2	715.5	711.7	695.7	696.6
11680.8	70°	7453.9	2390.4	690.9	808.1	807.2	721.2	672.0	659.8	638.0	641.8
10156.2	72.5°	6202.4	1771.3	535.0	699.5	743.9	690.0	621.9	602.1	574.7	578.5
7497.4	75°	4479.3	1204.2	389.4	532.1	647.5	653.1	572.8	538.8	505.7	511.4
4173.1	77.5°	2292.1	682.4	286.4	366.7	508.5	593.6	528.4	483.0	475.4	528.4
1203.2	80°	747.7	342.2	198.5	257.1	333.7	485.8	463.2	411.2	409.3	421.6
252.4	82.5°	223.1	144.6	127.6	169.2	184.3	372.4	399.8	311.0	267.5	281.7
84.1	85°	76.6	69.9	72.8	84.1	87.9	218.3	279.8	206.1	194.7	214.6
18.9	87.5°	18.0	24.6	20.8	18.9	18.9	52.9	108.7	86.0	119.1	79.4
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>
2148.4
1698.5
1543.5
1564.3
1617.2
1662.6
1688.1
1684.4
1642.8
1572.8
1497.2
1428.2
1370.5
1345.0
1309.1
1244.8
1126.7
1061.5
1046.3
1003.8
954.7
898.9
859.2
810.0
803.4
778.8
741.0
696.6
645.6
577.5
513.2
520.8
362.0
291.1
211.7
76.6
0.0

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