

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: P948120

Luminaire Tested: **GALN-SB3B-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948120
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-SB3B-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17209 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

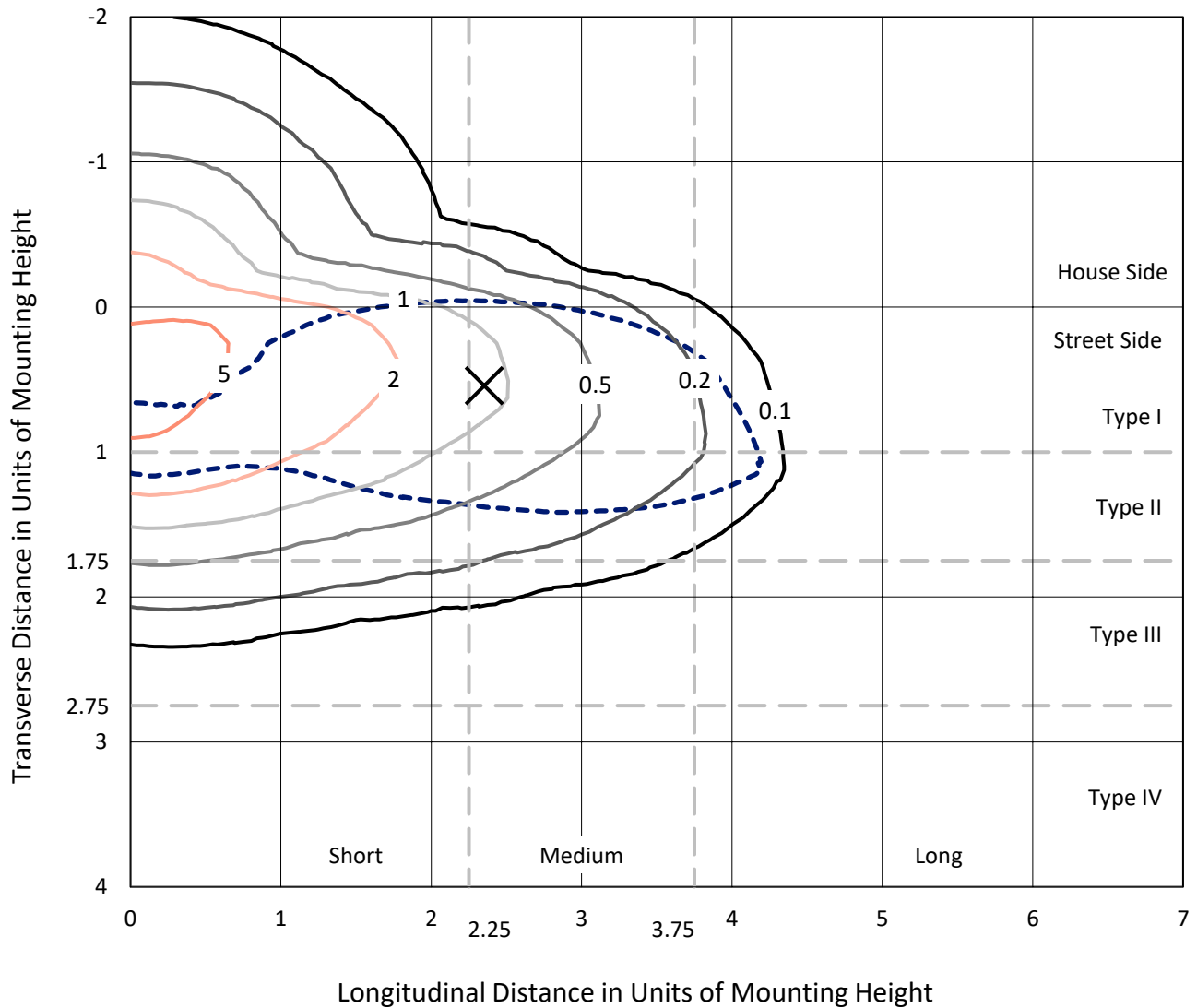
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

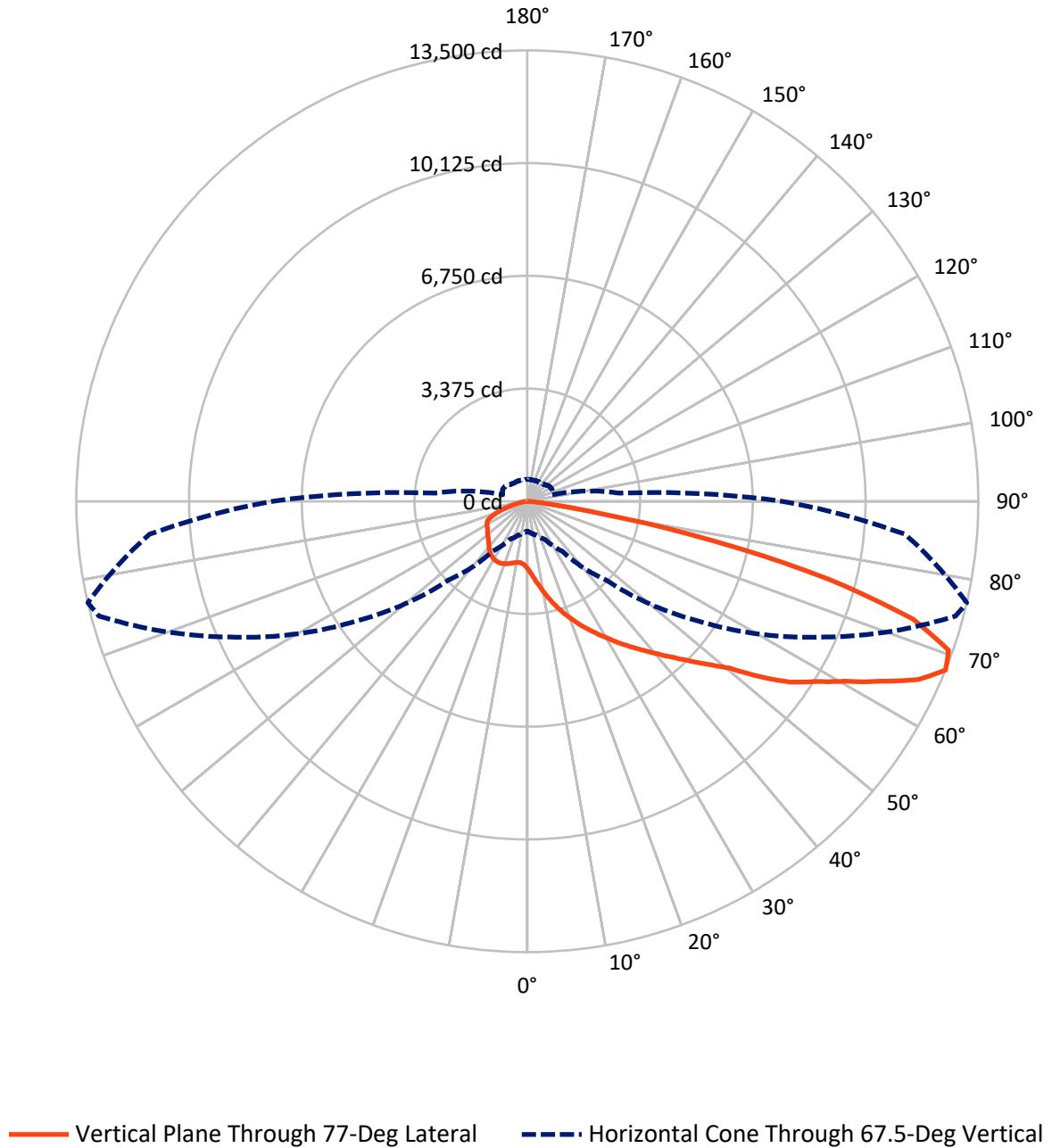
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3255.3	0.0	3255.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	13953.7	0.0	13953.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	17209.0	0.0	17209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	1.3
10°-20°	777.5	4.5
20°-30°	1468.0	8.5
30°-40°	2365.0	13.7
40°-50°	3234.9	18.8
50°-60°	3649.0	21.2
60°-70°	3405.9	19.8
70°-80°	1867.0	10.8
80°-90°	225.2	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°	17209.0	100.0
0°-180°	17209.0	100.0

Coefficient of Utilization



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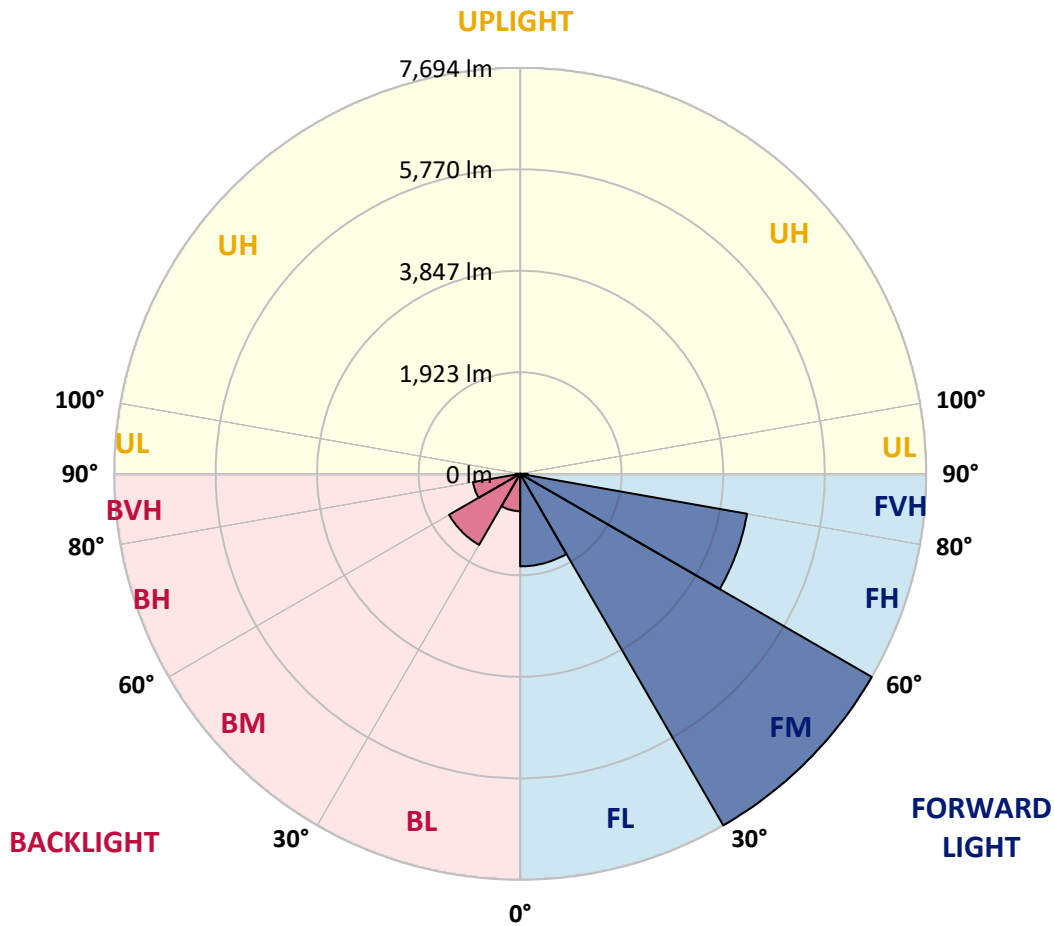
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1754.2	10.2			
FM (30°-60°)	7694.0	44.7			
FH (60°-80°)	4364.7	25.4			G2/5000
FVH (80°-90°)	140.8	0.8			G2/225
BL (0°-30°)	707.8	4.1	B2/1000		
BM (30°-60°)	1555.0	9.0	B2/2500		
BH (60°-80°)	908.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	84.4	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°	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2
2.5°	2528.2	2545.9	2523.7	2523.7	2449.1	2410.0	2335.4	2278.5	2176.4	2158.6
5°	2988.3	3010.5	2979.4	2966.1	2878.2	2797.3	2672.1	2548.6	2366.5	2347.8
7.5°	3344.5	3372.9	3345.4	3331.2	3253.0	3162.4	3015.8	2843.5	2586.8	2550.4
10°	3635.0	3639.4	3630.6	3635.9	3574.6	3500.0	3349.9	3149.1	2828.4	2778.7
12.5°	3799.3	3819.8	3837.5	3869.5	3858.9	3812.7	3677.6	3437.8	3084.2	3020.3
15°	3876.6	3912.2	3952.1	4025.9	4085.4	4096.9	3993.9	3747.8	3344.5	3267.2
17.5°	3904.2	3937.9	4001.0	4107.6	4235.5	4321.7	4275.5	4049.0	3602.1	3513.3
20°	4043.6	4053.4	4091.6	4192.9	4331.4	4474.5	4509.1	4338.6	3857.1	3756.7
22.5°	4342.1	4322.6	4333.2	4379.4	4478.9	4617.5	4696.5	4594.4	4119.1	4003.7
25°	4835.1	4778.3	4721.4	4668.1	4718.8	4796.9	4886.6	4850.2	4393.6	4247.1
27.5°	5457.8	5388.5	5263.3	5088.3	5027.0	5054.5	5094.5	5087.4	4647.7	4499.3
30°	6070.8	5989.9	5840.7	5587.5	5425.9	5353.0	5322.8	5302.4	4924.0	4765.8
32.5°	6560.2	6496.3	6349.7	6066.3	5831.8	5707.5	5607.1	5534.2	5212.7	5054.5
35°	6988.4	6928.9	6761.0	6451.9	6196.9	6064.6	5933.1	5777.6	5512.9	5353.0
37.5°	7379.3	7319.8	7089.7	6768.1	6511.4	6419.9	6302.6	6038.8	5814.1	5663.0
40°	7626.2	7612.9	7397.9	7033.7	6767.2	6721.9	6682.8	6341.7	6148.1	6007.7
42.5°	7689.3	7718.6	7548.1	7248.7	6994.6	6958.2	7049.7	6684.6	6522.9	6388.8
45°	7537.4	7621.8	7509.9	7306.4	7156.3	7136.8	7374.8	7059.5	6937.8	6815.2
47.5°	7152.7	7295.8	7249.6	7221.1	7199.8	7284.2	7660.9	7457.4	7407.7	7301.1
50°	6376.4	6647.3	6728.1	6907.6	7113.7	7398.8	7921.1	7891.8	7956.7	7849.2
52.5°	5034.1	5407.2	5876.2	6325.7	6848.9	7360.6	8207.2	8515.4	8789.0	8730.4
55°	4155.6	4323.5	4684.1	5508.5	6335.5	7199.8	8336.0	9019.1	9615.2	9562.8
57.5°	3480.4	3630.6	3852.6	4541.1	5559.1	6834.7	8415.9	9326.5	10181.0	10175.7
60°	2756.5	2915.5	3142.9	3630.6	4652.1	6204.0	8398.2	9676.5	10903.2	10947.7
62.5°	1939.2	2114.2	2366.5	2821.3	3725.6	5386.8	8035.7	9929.6	11753.4	11874.2
65°	1274.7	1390.2	1580.3	1973.0	2776.0	4335.9	7343.7	9962.5	12663.0	12867.3
67.5°	893.6	938.1	1050.0	1263.2	1829.9	3325.0	6241.3	9622.3	13269.7	13499.8
70°	697.3	719.5	776.4	861.7	1149.5	2235.9	4782.7	8737.5	13140.0	13379.9
72.5°	602.3	623.6	644.9	655.6	771.1	1380.4	3239.7	7305.5	11918.6	12081.1
75°	546.3	551.6	569.4	565.9	588.1	895.4	1869.9	5322.8	9403.8	9347.8
77.5°	459.3	466.4	495.7	491.2	522.3	612.1	970.9	3435.1	6096.5	5716.3
80°	389.1	392.6	424.6	419.3	453.9	443.3	495.7	1750.9	2585.9	2190.6
82.5°	135.0	167.0	324.2	334.0	346.4	268.3	286.0	714.2	789.7	604.9
85°	65.7	70.2	165.2	234.5	233.6	135.0	139.5	254.9	248.7	195.4
87.5°	10.7	13.3	19.5	91.5	72.8	35.5	48.0	49.7	51.5	44.4
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°
2019.2	0°	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2	2019.2
2091.1	2.5°	2041.4	1996.9	1903.7	1817.5	1750.0	1685.1	1648.7	1617.6	1599.9	1596.3
2188.8	5°	2096.4	2004.9	1835.3	1692.2	1599.0	1529.7	1493.3	1470.2	1458.6	1451.5
2320.3	7.5°	2175.5	2041.4	1799.7	1637.2	1539.5	1489.7	1471.1	1467.5	1466.6	1467.5
2479.3	10°	2284.8	2100.9	1796.2	1623.8	1542.1	1514.6	1513.7	1514.6	1518.1	1519.0
2652.5	12.5°	2402.9	2162.2	1810.4	1635.4	1575.9	1560.8	1558.1	1557.2	1559.9	1561.7
2827.5	15°	2531.7	2243.0	1834.4	1660.3	1613.2	1597.2	1594.5	1589.2	1588.3	1587.4
3011.4	17.5°	2664.1	2323.0	1861.0	1686.9	1637.2	1615.0	1605.2	1592.8	1583.0	1580.3
3201.5	20°	2798.2	2402.0	1879.7	1700.2	1638.9	1607.9	1588.3	1567.0	1550.1	1540.3
3393.4	22.5°	2941.2	2484.6	1891.2	1696.7	1623.0	1580.3	1544.8	1519.9	1494.2	1477.3
3587.0	25°	3080.7	2556.6	1890.3	1678.0	1591.9	1537.7	1492.4	1460.4	1424.9	1407.1
3786.9	27.5°	3214.8	2621.4	1868.1	1645.2	1547.5	1487.0	1432.9	1394.7	1360.0	1343.1
3988.6	30°	3353.4	2675.6	1833.5	1597.2	1495.0	1428.4	1368.9	1336.0	1304.9	1289.0
4201.8	32.5°	3491.1	2725.4	1784.6	1537.7	1434.6	1370.7	1312.0	1281.8	1263.2	1263.2
4430.9	35°	3636.8	2760.0	1719.8	1468.4	1370.7	1309.4	1263.2	1245.4	1243.6	1233.0
4673.4	37.5°	3790.5	2782.2	1640.7	1397.3	1307.6	1249.9	1235.7	1214.3	1196.6	1173.5
4939.9	40°	3952.1	2804.4	1545.7	1323.6	1241.0	1209.0	1202.8	1174.4	1123.7	1066.9
5242.0	42.5°	4148.5	2819.5	1447.1	1249.9	1170.8	1160.1	1169.0	1120.2	1039.3	996.7
5606.2	45°	4375.9	2844.4	1356.5	1177.0	1098.9	1098.9	1136.2	1072.2	1005.6	978.9
6021.9	47.5°	4670.8	2902.1	1272.1	1097.1	1032.2	1050.0	1063.3	1014.5	977.2	944.3
6528.3	50°	5097.2	3040.7	1185.0	1016.2	981.6	1017.1	998.5	970.0	926.5	899.9
7333.1	52.5°	5626.6	3122.4	1107.7	943.4	938.1	973.6	946.9	920.3	887.4	851.9
7943.4	55°	5987.3	3137.5	1042.9	890.1	908.8	905.2	895.4	871.4	853.7	806.6
8545.6	57.5°	6390.6	3167.7	989.6	858.1	890.1	851.0	847.5	827.0	803.9	771.9
9280.3	60°	6872.9	3214.8	943.4	845.7	874.1	815.5	797.7	789.7	766.6	750.6
10164.2	62.5°	7398.8	3257.5	896.3	847.5	855.5	780.8	754.2	751.5	737.3	732.0
10993.8	65°	7757.7	3141.1	837.7	845.7	826.1	745.3	711.5	710.7	699.1	697.3
11353.6	67.5°	7632.4	2772.4	758.6	820.8	795.9	709.8	672.5	668.9	653.8	654.7
10977.9	70°	7005.3	2246.6	649.4	759.5	758.6	677.8	631.6	620.0	599.6	603.2
9545.0	72.5°	5829.2	1664.7	502.8	657.4	699.1	648.5	584.5	565.9	540.1	543.7
7046.2	75°	4209.7	1131.7	366.0	500.1	608.5	613.8	538.3	506.3	475.3	480.6
3921.9	77.5°	2154.2	641.4	269.2	344.7	477.9	557.9	496.6	453.9	446.8	496.6
1130.8	80°	702.7	321.6	186.5	241.6	313.6	456.6	435.3	386.4	384.6	396.2
237.2	82.5°	209.6	135.9	119.9	159.0	173.2	350.0	375.8	292.3	251.4	264.7
79.1	85°	72.0	65.7	68.4	79.1	82.6	205.2	262.9	193.7	183.0	201.6
17.8	87.5°	16.9	23.1	19.5	17.8	17.8	49.7	102.2	80.8	111.9	74.6
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>
2019.2
1596.3
1450.6
1470.2
1519.9
1562.6
1586.5
1583.0
1543.9
1478.2
1407.1
1342.3
1288.1
1264.1
1230.3
1169.9
1058.9
997.6
983.4
943.4
897.2
844.8
807.5
761.3
755.1
732.0
696.4
654.7
606.7
542.8
482.4
489.5
340.2
273.6
199.0
72.0
0.0

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