

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: P949212

Luminaire Tested: **GALN-SB4A-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949212
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-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 19372.9 lumens
Efficiency: N/A
Efficacy: 169.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

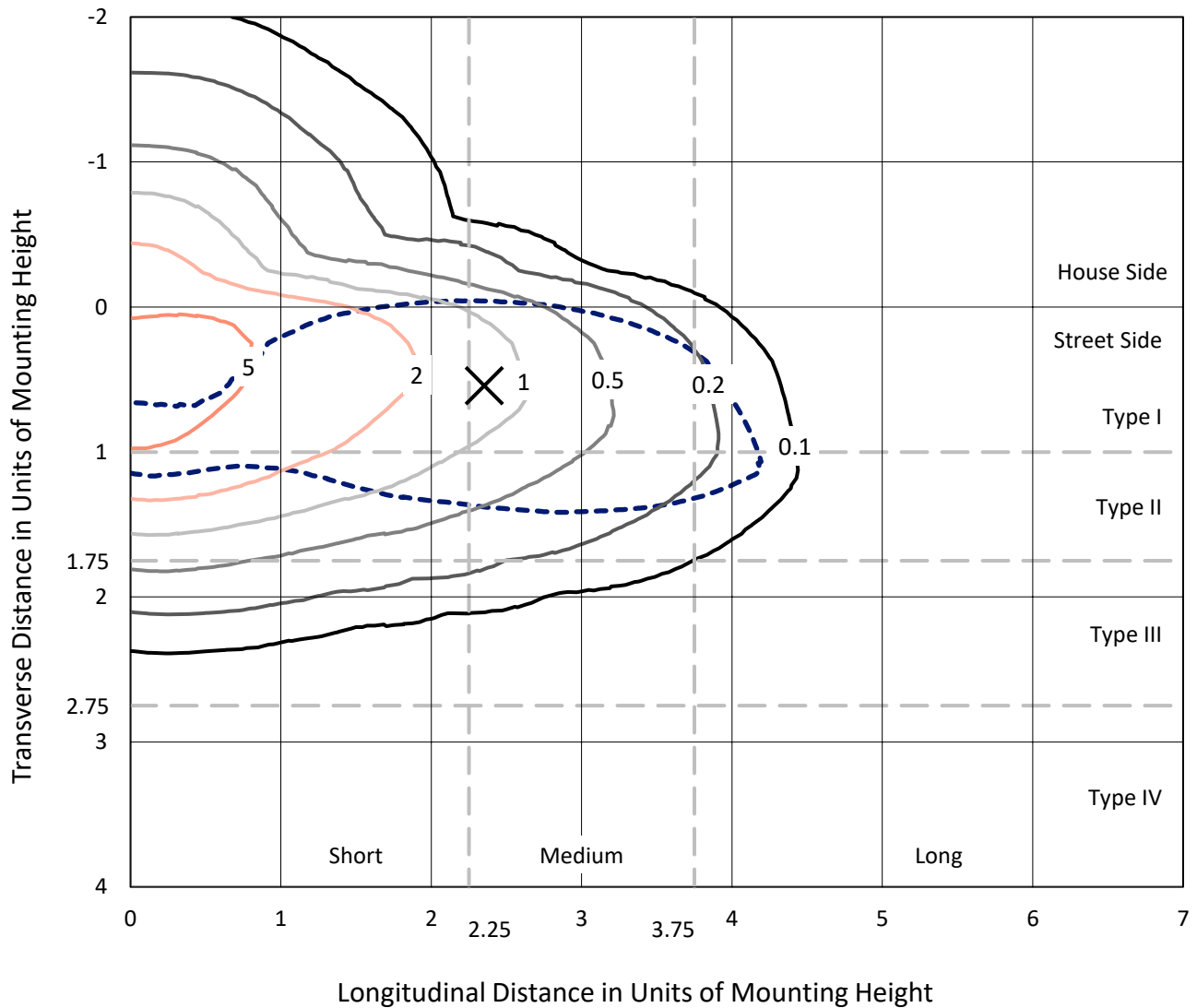
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

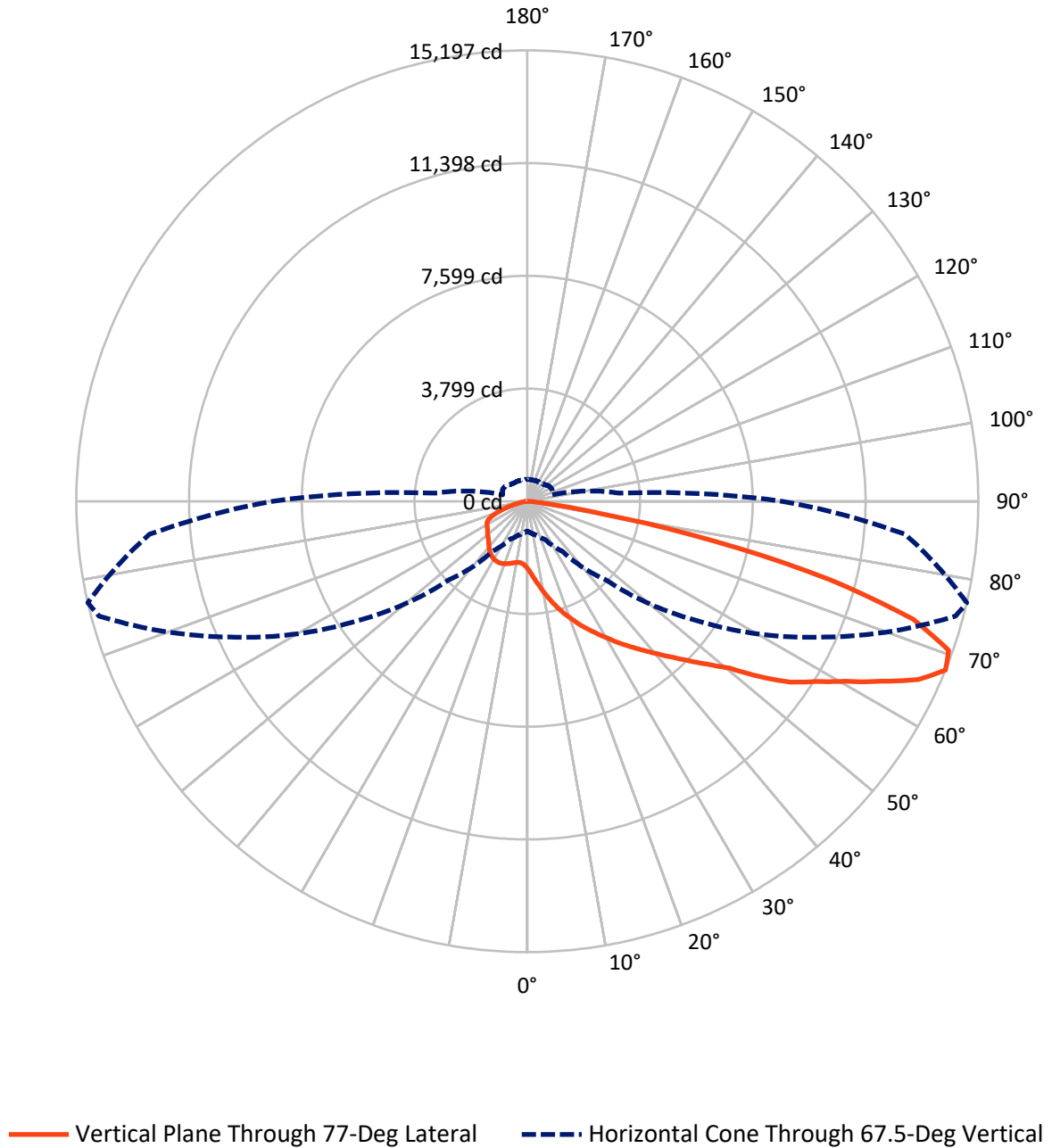
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB4A-740-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3664.5	0.0	3664.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	15708.4	0.0	15708.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	19372.9	0.0	19372.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.6	1.3
10°-20°	875.3	4.5
20°-30°	1652.6	8.5
30°-40°	2662.4	13.7
40°-50°	3641.7	18.8
50°-60°	4107.8	21.2
60°-70°	3834.2	19.8
70°-80°	2101.8	10.8
80°-90°	253.5	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°	19372.9	100.0
0°-180°	19372.9	100.0



REPORT NUMBER: P949212

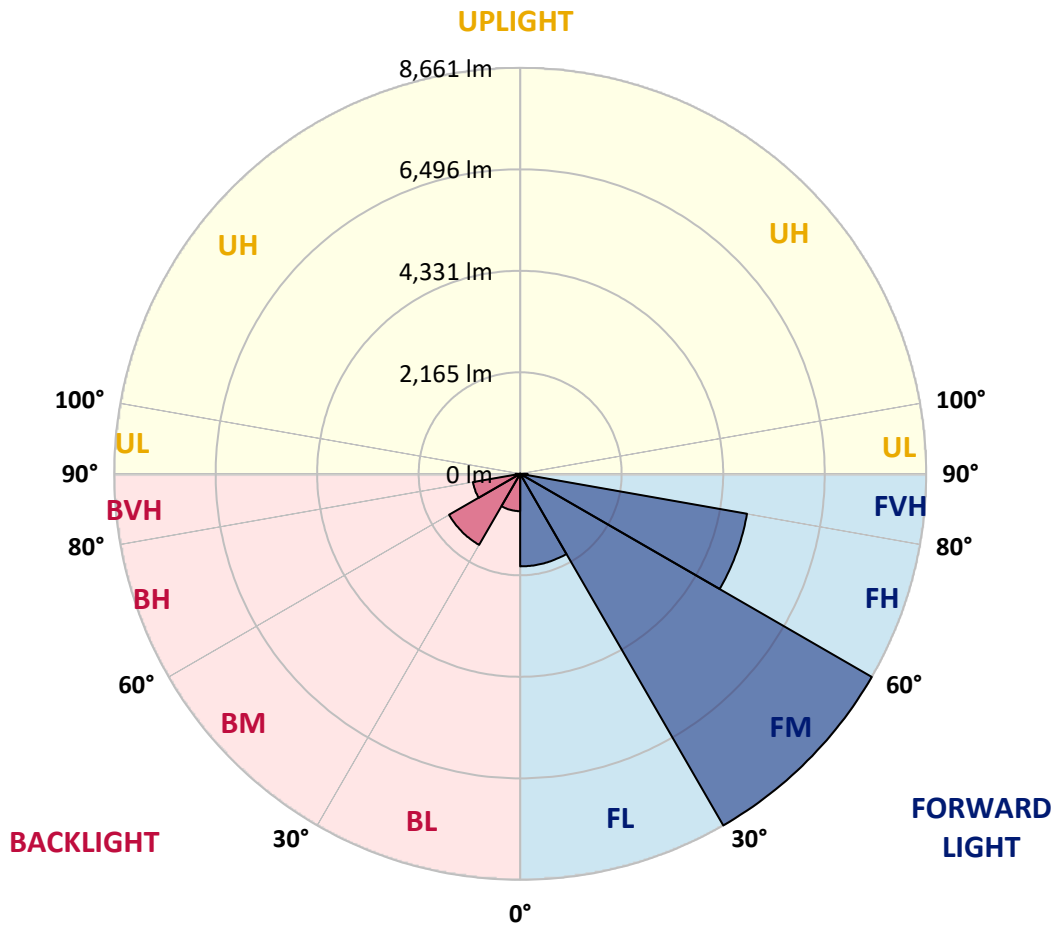
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.8	10.2			
FM (30°-60°)	8661.5	44.7			
FH (60°-80°)	4913.6	25.4			G2/5000
FVH (80°-90°)	158.5	0.8			G2/225
BL (0°-30°)	796.8	4.1	B2/1000		
BM (30°-60°)	1750.5	9.0	B2/2500		
BH (60°-80°)	1022.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	95.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P949212
 CATALOG NUMBER: GALN-SB4A-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1
2.5°	2846.1	2866.1	2841.1	2841.1	2757.1	2713.1	2629.1	2565.1	2450.1	2430.1
5°	3364.1	3389.1	3354.1	3339.1	3240.1	3149.1	3008.1	2869.1	2664.1	2643.1
7.5°	3765.1	3797.1	3766.1	3750.1	3662.1	3560.1	3395.1	3201.1	2912.1	2871.1
10°	4092.1	4097.1	4087.1	4093.1	4024.1	3940.1	3771.1	3545.1	3184.1	3128.1
12.5°	4277.1	4300.1	4320.1	4356.1	4344.1	4292.1	4140.1	3870.1	3472.1	3400.1
15°	4364.1	4404.1	4449.1	4532.1	4599.1	4612.1	4496.1	4219.1	3765.1	3678.1
17.5°	4395.1	4433.1	4504.1	4624.1	4768.1	4865.1	4813.1	4558.1	4055.1	3955.1
20°	4552.1	4563.1	4606.1	4720.1	4876.1	5037.1	5076.1	4884.1	4342.1	4229.1
22.5°	4888.1	4866.1	4878.1	4930.1	5042.1	5198.1	5287.1	5172.1	4637.1	4507.1
25°	5443.1	5379.1	5315.1	5255.1	5312.1	5400.1	5501.1	5460.1	4946.1	4781.1
27.5°	6144.1	6066.1	5925.1	5728.1	5659.1	5690.1	5735.1	5727.1	5232.1	5065.1
30°	6834.2	6743.2	6575.2	6290.2	6108.1	6026.1	5992.1	5969.1	5543.1	5365.1
32.5°	7385.2	7313.2	7148.2	6829.2	6565.2	6425.2	6312.2	6230.2	5868.1	5690.1
35°	7867.2	7800.2	7611.2	7263.2	6976.2	6827.2	6679.2	6504.2	6206.1	6026.1
37.5°	8307.2	8240.2	7981.2	7619.2	7330.2	7227.2	7095.2	6798.2	6545.2	6375.2
40°	8585.2	8570.2	8328.2	7918.2	7618.2	7567.2	7523.2	7139.2	6921.2	6763.2
42.5°	8656.2	8689.2	8497.2	8160.2	7874.2	7833.2	7936.2	7525.2	7343.2	7192.2
45°	8485.2	8580.2	8454.2	8225.2	8056.2	8034.2	8302.2	7947.2	7810.2	7672.2
47.5°	8052.2	8213.2	8161.2	8129.2	8105.2	8200.2	8624.2	8395.2	8339.2	8219.2
50°	7178.2	7483.2	7574.2	7776.2	8008.2	8329.2	8917.2	8884.2	8957.2	8836.2
52.5°	5667.1	6087.1	6615.2	7121.2	7710.2	8286.2	9239.2	9586.2	9894.2	9828.2
55°	4678.1	4867.1	5273.1	6201.1	7132.2	8105.2	9384.2	10153.2	10824.3	10765.3
57.5°	3918.1	4087.1	4337.1	5112.1	6258.2	7694.2	9474.2	10499.3	11461.3	11455.3
60°	3103.1	3282.1	3538.1	4087.1	5237.1	6984.2	9454.2	10893.3	12274.3	12324.3
62.5°	2183.1	2380.1	2664.1	3176.1	4194.1	6064.1	9046.2	11178.3	13231.3	13367.3
65°	1435.0	1565.0	1779.0	2221.1	3125.1	4881.1	8267.2	11215.3	14255.3	14485.3
67.5°	1006.0	1056.0	1182.0	1422.0	2060.0	3743.1	7026.2	10832.3	14938.4	15197.4
70°	785.0	810.0	874.0	970.0	1294.0	2517.1	5384.1	9836.2	14792.4	15062.4
72.5°	678.0	702.0	726.0	738.0	868.0	1554.0	3647.1	8224.2	13417.3	13600.3
75°	615.0	621.0	641.0	637.0	662.0	1008.0	2105.1	5992.1	10586.3	10523.3
77.5°	517.0	525.0	558.0	553.0	588.0	689.0	1093.0	3867.1	6863.2	6435.2
80°	438.0	442.0	478.0	472.0	511.0	499.0	558.0	1971.0	2911.1	2466.1
82.5°	152.0	188.0	365.0	376.0	390.0	302.0	322.0	804.0	889.0	681.0
85°	74.0	79.0	186.0	264.0	263.0	152.0	157.0	287.0	280.0	220.0
87.5°	12.0	15.0	22.0	103.0	82.0	40.0	54.0	56.0	58.0	50.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949212
 CATALOG NUMBER: GALN-SB4A-740-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2273.1	0°	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1
2354.1	2.5°	2298.1	2248.1	2143.1	2046.0	1970.0	1897.0	1856.0	1821.0	1801.0	1797.0
2464.1	5°	2360.1	2257.1	2066.0	1905.0	1800.0	1722.0	1681.0	1655.0	1642.0	1634.0
2612.1	7.5°	2449.1	2298.1	2026.0	1843.0	1733.0	1677.0	1656.0	1652.0	1651.0	1652.0
2791.1	10°	2572.1	2365.1	2022.0	1828.0	1736.0	1705.0	1704.0	1705.0	1709.0	1710.0
2986.1	12.5°	2705.1	2434.1	2038.0	1841.0	1774.0	1757.0	1754.0	1753.0	1756.0	1758.0
3183.1	15°	2850.1	2525.1	2065.0	1869.0	1816.0	1798.0	1795.0	1789.0	1788.0	1787.0
3390.1	17.5°	2999.1	2615.1	2095.1	1899.0	1843.0	1818.0	1807.0	1793.0	1782.0	1779.0
3604.1	20°	3150.1	2704.1	2116.1	1914.0	1845.0	1810.0	1788.0	1764.0	1745.0	1734.0
3820.1	22.5°	3311.1	2797.1	2129.1	1910.0	1827.0	1779.0	1739.0	1711.0	1682.0	1663.0
4038.1	25°	3468.1	2878.1	2128.1	1889.0	1792.0	1731.0	1680.0	1644.0	1604.0	1584.0
4263.1	27.5°	3619.1	2951.1	2103.1	1852.0	1742.0	1674.0	1613.0	1570.0	1531.0	1512.0
4490.1	30°	3775.1	3012.1	2064.0	1798.0	1683.0	1608.0	1541.0	1504.0	1469.0	1451.0
4730.1	32.5°	3930.1	3068.1	2009.0	1731.0	1615.0	1543.0	1477.0	1443.0	1422.0	1422.0
4988.1	35°	4094.1	3107.1	1936.0	1653.0	1543.0	1474.0	1422.0	1402.0	1400.0	1388.0
5261.1	37.5°	4267.1	3132.1	1847.0	1573.0	1472.0	1407.0	1391.0	1367.0	1347.0	1321.0
5561.1	40°	4449.1	3157.1	1740.0	1490.0	1397.0	1361.0	1354.0	1322.0	1265.0	1201.0
5901.1	42.5°	4670.1	3174.1	1629.0	1407.0	1318.0	1306.0	1316.0	1261.0	1170.0	1122.0
6311.2	45°	4926.1	3202.1	1527.0	1325.0	1237.0	1237.0	1279.0	1207.0	1132.0	1102.0
6779.2	47.5°	5258.1	3267.1	1432.0	1235.0	1162.0	1182.0	1197.0	1142.0	1100.0	1063.0
7349.2	50°	5738.1	3423.1	1334.0	1144.0	1105.0	1145.0	1124.0	1092.0	1043.0	1013.0
8255.2	52.5°	6334.2	3515.1	1247.0	1062.0	1056.0	1096.0	1066.0	1036.0	999.0	959.0
8942.2	55°	6740.2	3532.1	1174.0	1002.0	1023.0	1019.0	1008.0	981.0	961.0	908.0
9620.2	57.5°	7194.2	3566.1	1114.0	966.0	1002.0	958.0	954.0	931.0	905.0	869.0
10447.3	60°	7737.2	3619.1	1062.0	952.0	984.0	918.0	898.0	889.0	863.0	845.0
11442.3	62.5°	8329.2	3667.1	1009.0	954.0	963.0	879.0	849.0	846.0	830.0	824.0
12376.3	65°	8733.2	3536.1	943.0	952.0	930.0	839.0	801.0	800.0	787.0	785.0
12781.3	67.5°	8592.2	3121.1	854.0	924.0	896.0	799.0	757.0	753.0	736.0	737.0
12358.3	70°	7886.2	2529.1	731.0	855.0	854.0	763.0	711.0	698.0	675.0	679.0
10745.3	72.5°	6562.2	1874.0	566.0	740.0	787.0	730.0	658.0	637.0	608.0	612.0
7932.2	75°	4739.1	1274.0	412.0	563.0	685.0	691.0	606.0	570.0	535.0	541.0
4415.1	77.5°	2425.1	722.0	303.0	388.0	538.0	628.0	559.0	511.0	503.0	559.0
1273.0	80°	791.0	362.0	210.0	272.0	353.0	514.0	490.0	435.0	433.0	446.0
267.0	82.5°	236.0	153.0	135.0	179.0	195.0	394.0	423.0	329.0	283.0	298.0
89.0	85°	81.0	74.0	77.0	89.0	93.0	231.0	296.0	218.0	206.0	227.0
20.0	87.5°	19.0	26.0	22.0	20.0	20.0	56.0	115.0	91.0	126.0	84.0
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>
2273.1
1797.0
1633.0
1655.0
1711.0
1759.0
1786.0
1782.0
1738.0
1664.0
1584.0
1511.0
1450.0
1423.0
1385.0
1317.0
1192.0
1123.0
1107.0
1062.0
1010.0
951.0
909.0
857.0
850.0
824.0
784.0
737.0
683.0
611.0
543.0
551.0
383.0
308.0
224.0
81.0
0.0

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