

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: P947070

Luminaire Tested: **GALN-SB2C-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947070
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-SB2C-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16139 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

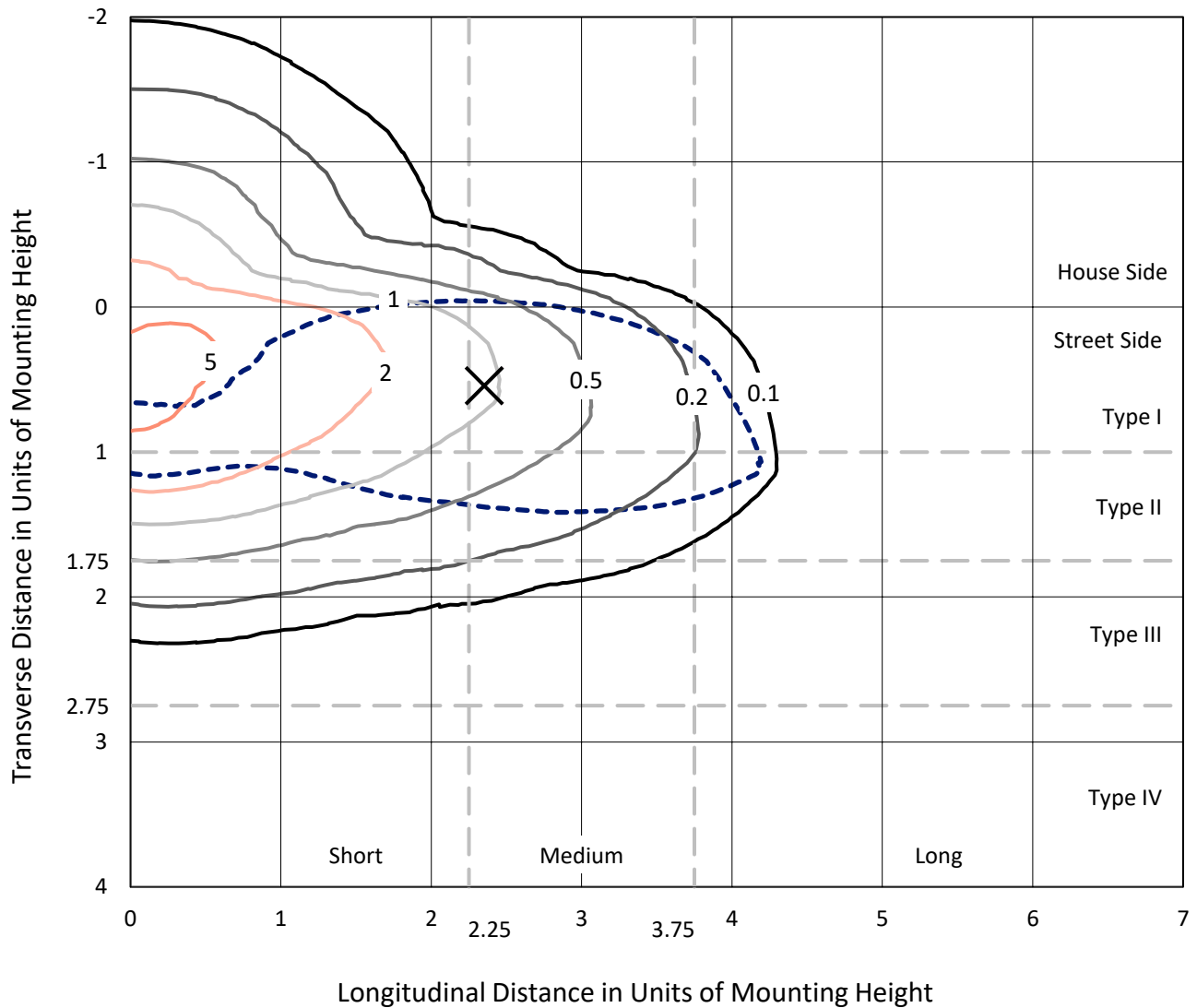
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

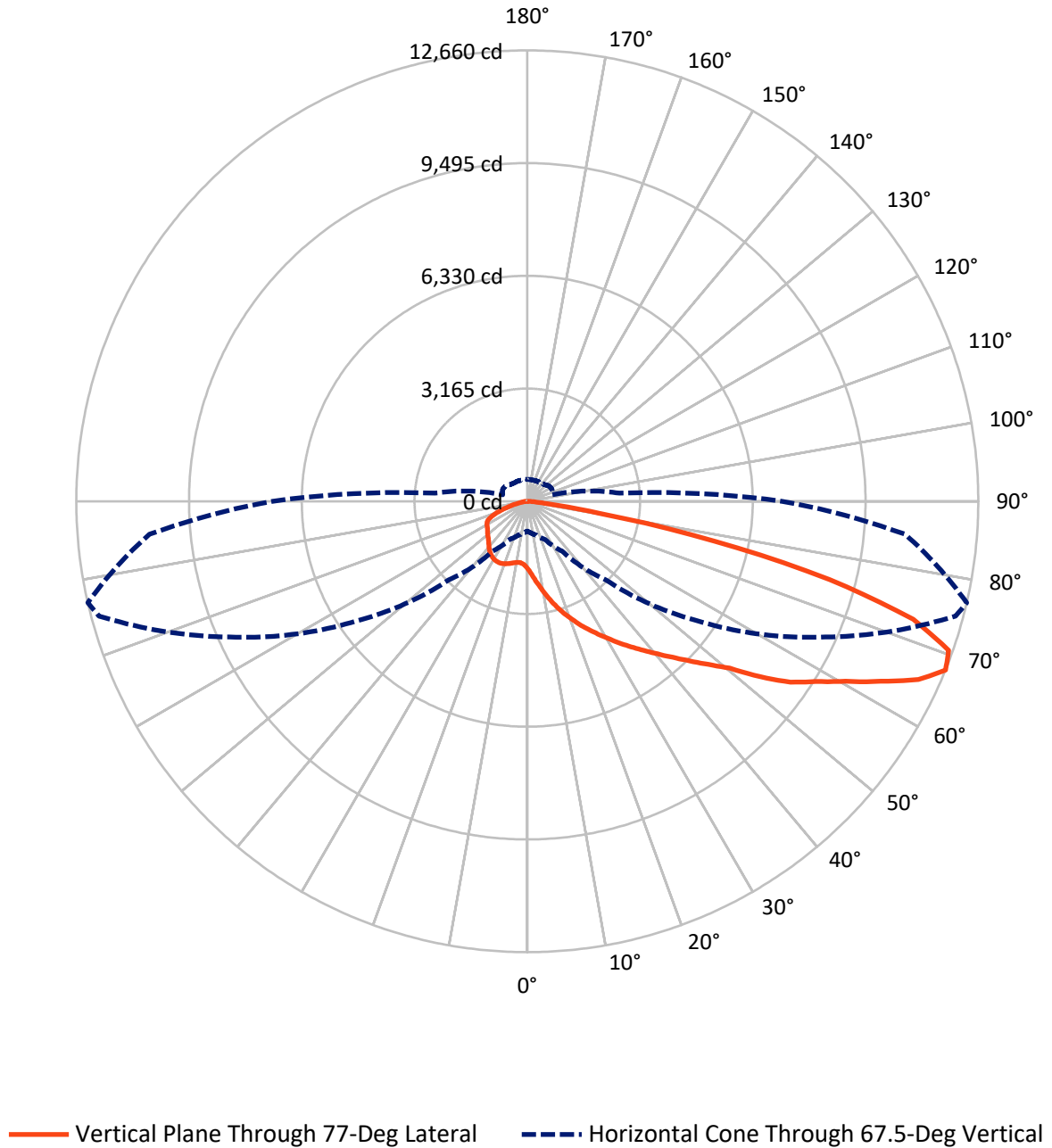
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	3052.9	0.0	3052.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	13086.2	0.0	13086.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	16139.0	0.0	16139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	1.3
10°-20°	729.2	4.5
20°-30°	1376.8	8.5
30°-40°	2218.0	13.7
40°-50°	3033.8	18.8
50°-60°	3422.1	21.2
60°-70°	3194.1	19.8
70°-80°	1750.9	10.8
80°-90°	211.2	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°	16139.0	100.0
0°-180°	16139.0	100.0

Coefficient of Utilization



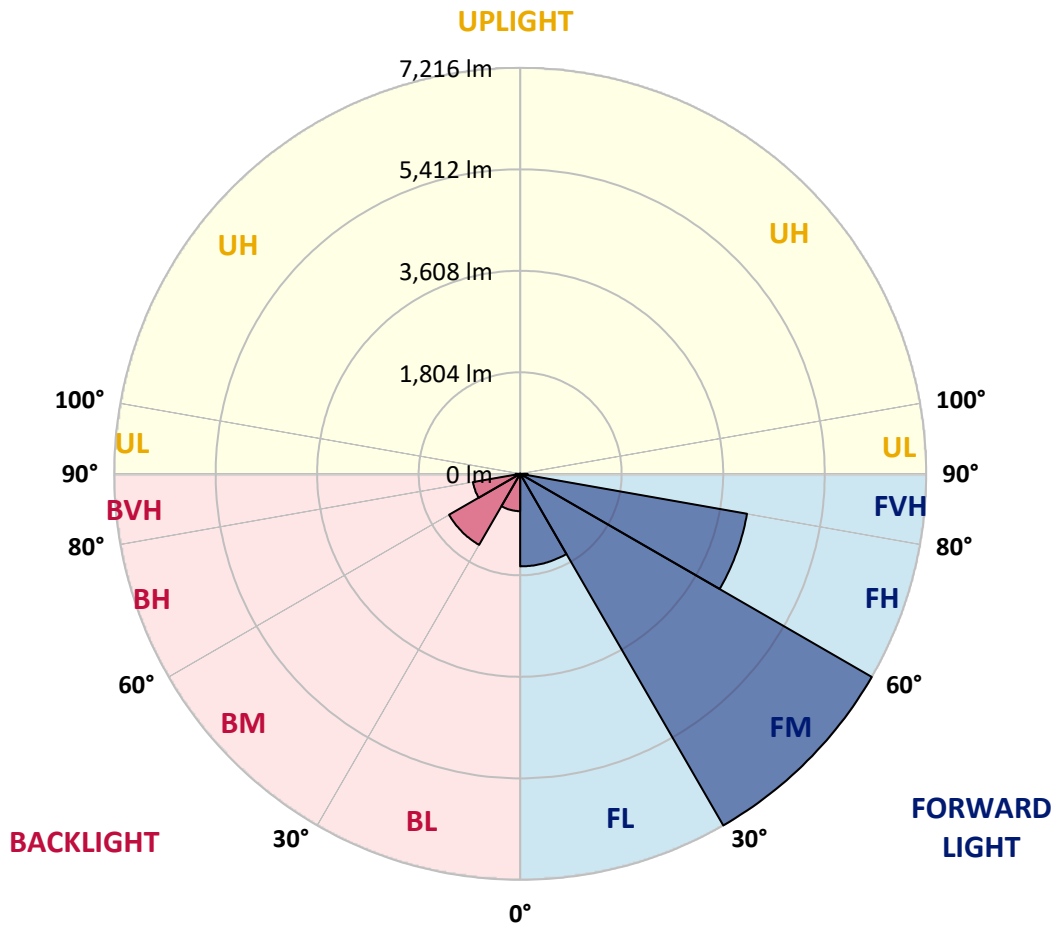
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.2	10.2			
FM (30°-60°)	7215.6	44.7			
FH (60°-80°)	4093.3	25.4			G2/5000
FVH (80°-90°)	132.1	0.8			G2/225
BL (0°-30°)	663.8	4.1	B2/1000		
BM (30°-60°)	1458.3	9.0	B2/2500		
BH (60°-80°)	851.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	79.1	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°	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6
2.5°	2371.0	2387.6	2366.8	2366.8	2296.8	2260.2	2190.2	2136.9	2041.1	2024.4
5°	2802.5	2823.3	2794.2	2781.7	2699.2	2623.4	2505.9	2390.1	2219.3	2201.8
7.5°	3136.6	3163.2	3137.4	3124.1	3050.8	2965.8	2828.3	2666.7	2425.9	2391.8
10°	3409.0	3413.2	3404.8	3409.8	3352.3	3282.4	3141.6	2953.3	2652.5	2605.9
12.5°	3563.1	3582.3	3598.9	3628.9	3618.9	3575.6	3449.0	3224.0	2892.5	2832.5
15°	3635.6	3668.9	3706.4	3775.5	3831.4	3842.2	3745.6	3514.8	3136.6	3064.1
17.5°	3661.4	3693.1	3752.2	3852.2	3972.2	4053.0	4009.6	3797.2	3378.2	3294.9
20°	3792.2	3801.4	3837.2	3932.2	4062.1	4196.3	4228.7	4068.8	3617.3	3523.1
22.5°	4072.1	4053.8	4063.8	4107.1	4200.4	4330.4	4404.5	4308.7	3863.0	3754.7
25°	4534.5	4481.2	4427.9	4377.9	4425.4	4498.7	4582.8	4548.7	4120.4	3983.0
27.5°	5118.5	5053.5	4936.0	4771.9	4714.4	4740.3	4777.8	4771.1	4358.7	4219.6
30°	5693.3	5617.5	5477.5	5240.1	5088.5	5020.2	4991.9	4972.7	4617.8	4469.5
32.5°	6152.3	6092.4	5954.9	5689.1	5469.2	5352.6	5258.4	5190.1	4888.6	4740.3
35°	6553.9	6498.1	6340.6	6050.7	5811.6	5687.5	5564.2	5418.4	5170.1	5020.2
37.5°	6920.5	6864.6	6648.9	6347.3	6106.5	6020.7	5910.8	5663.3	5452.6	5310.9
40°	7152.0	7139.6	6937.9	6596.4	6346.5	6304.0	6267.3	5947.4	5765.8	5634.2
42.5°	7211.2	7238.7	7078.7	6798.0	6559.7	6525.6	6611.4	6269.0	6117.4	5991.6
45°	7068.7	7147.9	7042.9	6852.1	6711.3	6693.0	6916.3	6620.5	6506.4	6391.4
47.5°	6708.0	6842.1	6798.8	6772.2	6752.2	6831.3	7184.5	6993.8	6947.1	6847.1
50°	5979.9	6234.0	6309.8	6478.1	6671.4	6938.8	7428.6	7401.1	7462.0	7361.2
52.5°	4721.1	5071.0	5510.9	5932.4	6423.1	6903.0	7696.9	7986.0	8242.6	8187.6
55°	3897.2	4054.6	4392.9	5166.0	5941.6	6752.2	7817.7	8458.3	9017.3	8968.2
57.5°	3264.0	3404.8	3613.1	4258.7	5213.5	6409.8	7892.7	8746.6	9548.0	9543.0
60°	2585.1	2734.2	2947.5	3404.8	4362.9	5818.3	7876.0	9074.8	10225.3	10267.0
62.5°	1818.6	1982.7	2219.3	2645.9	3494.0	5051.8	7536.1	9312.2	11022.6	11135.9
65°	1195.5	1303.8	1482.1	1850.3	2603.4	4066.3	6887.1	9343.1	11875.7	12067.3
67.5°	838.1	879.7	984.7	1184.6	1716.2	3118.2	5853.3	9024.0	12444.6	12660.4
70°	654.0	674.8	728.1	808.1	1078.0	2096.9	4485.3	8194.2	12323.0	12548.0
72.5°	564.8	584.8	604.8	614.8	723.1	1294.6	3038.3	6851.3	11177.5	11330.0
75°	512.3	517.3	534.0	530.7	551.5	839.8	1753.6	4991.9	8819.1	8766.6
77.5°	430.7	437.4	464.9	460.7	489.9	574.0	910.6	3221.5	5717.5	5360.9
80°	364.9	368.2	398.2	393.2	425.7	415.7	464.9	1642.0	2425.1	2054.4
82.5°	126.6	156.6	304.1	313.2	324.9	251.6	268.3	669.8	740.6	567.3
85°	61.6	65.8	155.0	219.9	219.1	126.6	130.8	239.1	233.3	183.3
87.5°	10.0	12.5	18.3	85.8	68.3	33.3	45.0	46.7	48.3	41.7
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°
1893.6	0°	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6	1893.6
1961.1	2.5°	1914.4	1872.8	1785.3	1704.5	1641.2	1580.4	1546.2	1517.1	1500.4	1497.1
2052.7	5°	1966.1	1880.3	1721.2	1587.0	1499.6	1434.6	1400.4	1378.8	1367.9	1361.3
2176.0	7.5°	2040.2	1914.4	1687.8	1535.4	1443.7	1397.1	1379.6	1376.3	1375.4	1376.3
2325.1	10°	2142.7	1970.3	1684.5	1522.9	1446.2	1420.4	1419.6	1420.4	1423.7	1424.6
2487.6	12.5°	2253.5	2027.7	1697.8	1533.7	1477.9	1463.7	1461.2	1460.4	1462.9	1464.6
2651.7	15°	2374.3	2103.5	1720.3	1557.0	1512.9	1497.9	1495.4	1490.4	1489.6	1488.7
2824.2	17.5°	2498.4	2178.5	1745.3	1582.0	1535.4	1514.6	1505.4	1493.7	1484.6	1482.1
3002.4	20°	2624.2	2252.7	1762.8	1594.5	1537.0	1507.9	1489.6	1469.6	1453.7	1444.6
3182.4	22.5°	2758.4	2330.1	1773.6	1591.2	1522.0	1482.1	1448.7	1425.4	1401.3	1385.4
3364.0	25°	2889.1	2397.6	1772.8	1573.7	1492.9	1442.1	1399.6	1369.6	1336.3	1319.6
3551.4	27.5°	3014.9	2458.4	1752.0	1542.9	1451.2	1394.6	1343.8	1307.9	1275.5	1259.6
3740.6	30°	3144.9	2509.3	1719.5	1497.9	1402.1	1339.6	1283.8	1253.0	1223.8	1208.8
3940.5	32.5°	3274.0	2555.9	1673.7	1442.1	1345.4	1285.5	1230.5	1202.1	1184.6	1184.6
4155.4	35°	3410.7	2588.4	1612.9	1377.1	1285.5	1228.0	1184.6	1168.0	1166.3	1156.3
4382.9	37.5°	3554.8	2609.2	1538.7	1310.4	1226.3	1172.2	1158.8	1138.8	1122.2	1100.5
4632.8	40°	3706.4	2630.1	1449.6	1241.3	1163.8	1133.8	1128.0	1101.3	1053.9	1000.5
4916.0	42.5°	3890.5	2644.2	1357.1	1172.2	1098.0	1088.0	1096.3	1050.5	974.7	934.7
5257.6	45°	4103.8	2667.5	1272.1	1103.8	1030.5	1030.5	1065.5	1005.5	943.1	918.1
5647.5	47.5°	4380.4	2721.7	1193.0	1028.9	968.0	984.7	997.2	951.4	916.4	885.6
6122.4	50°	4780.3	2851.7	1111.3	953.1	920.6	953.9	936.4	909.7	868.9	843.9
6877.1	52.5°	5276.8	2928.3	1038.9	884.7	879.7	913.1	888.1	863.1	832.3	798.9
7449.5	55°	5615.0	2942.5	978.0	834.8	852.2	848.9	839.8	817.3	800.6	756.4
8014.3	57.5°	5993.2	2970.8	928.1	804.8	834.8	798.1	794.8	775.6	753.9	724.0
8703.3	60°	6445.6	3014.9	884.7	793.1	819.8	764.8	748.1	740.6	719.0	704.0
9532.2	62.5°	6938.8	3054.9	840.6	794.8	802.3	732.3	707.3	704.8	691.5	686.5
10310.3	65°	7275.3	2945.8	785.6	793.1	774.8	699.0	667.3	666.5	655.6	654.0
10647.7	67.5°	7157.9	2600.1	711.5	769.8	746.4	665.6	630.6	627.3	613.2	614.0
10295.3	70°	6569.7	2106.9	609.0	712.3	711.5	635.6	592.3	581.5	562.3	565.7
8951.5	72.5°	5466.7	1561.2	471.5	616.5	655.6	608.2	548.2	530.7	506.5	509.8
6608.0	75°	3948.0	1061.4	343.2	469.0	570.7	575.7	504.9	474.9	445.7	450.7
3678.1	77.5°	2020.2	601.5	252.4	323.2	448.2	523.2	465.7	425.7	419.0	465.7
1060.5	80°	659.0	301.6	174.9	226.6	294.1	428.2	408.2	362.4	360.7	371.6
222.4	82.5°	196.6	127.5	112.5	149.1	162.5	328.2	352.4	274.1	235.8	248.3
74.1	85°	67.5	61.6	64.1	74.1	77.5	192.4	246.6	181.6	171.6	189.1
16.7	87.5°	15.8	21.7	18.3	16.7	16.7	46.7	95.8	75.8	105.0	70.0
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>
1893.6
1497.1
1360.4
1378.8
1425.4
1465.4
1487.9
1484.6
1447.9
1386.3
1319.6
1258.8
1208.0
1185.5
1153.8
1097.2
993.0
935.6
922.2
884.7
841.4
792.3
757.3
714.0
708.1
686.5
653.1
614.0
569.0
509.0
452.4
459.0
319.1
256.6
186.6
67.5
0.0

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