

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: P949800

Luminaire Tested: **GALN-SB4B-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949800
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-SB4B-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16657 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

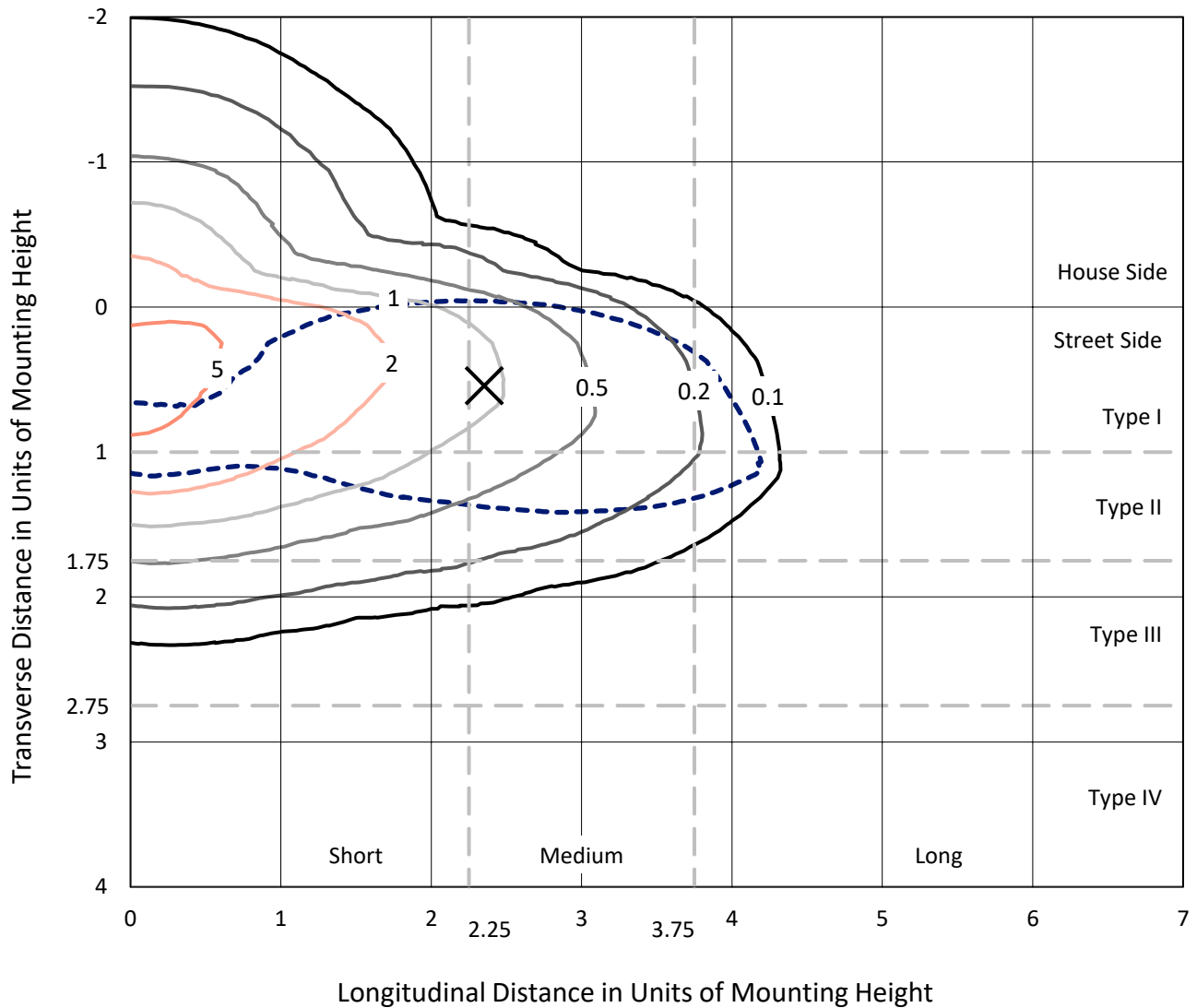
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

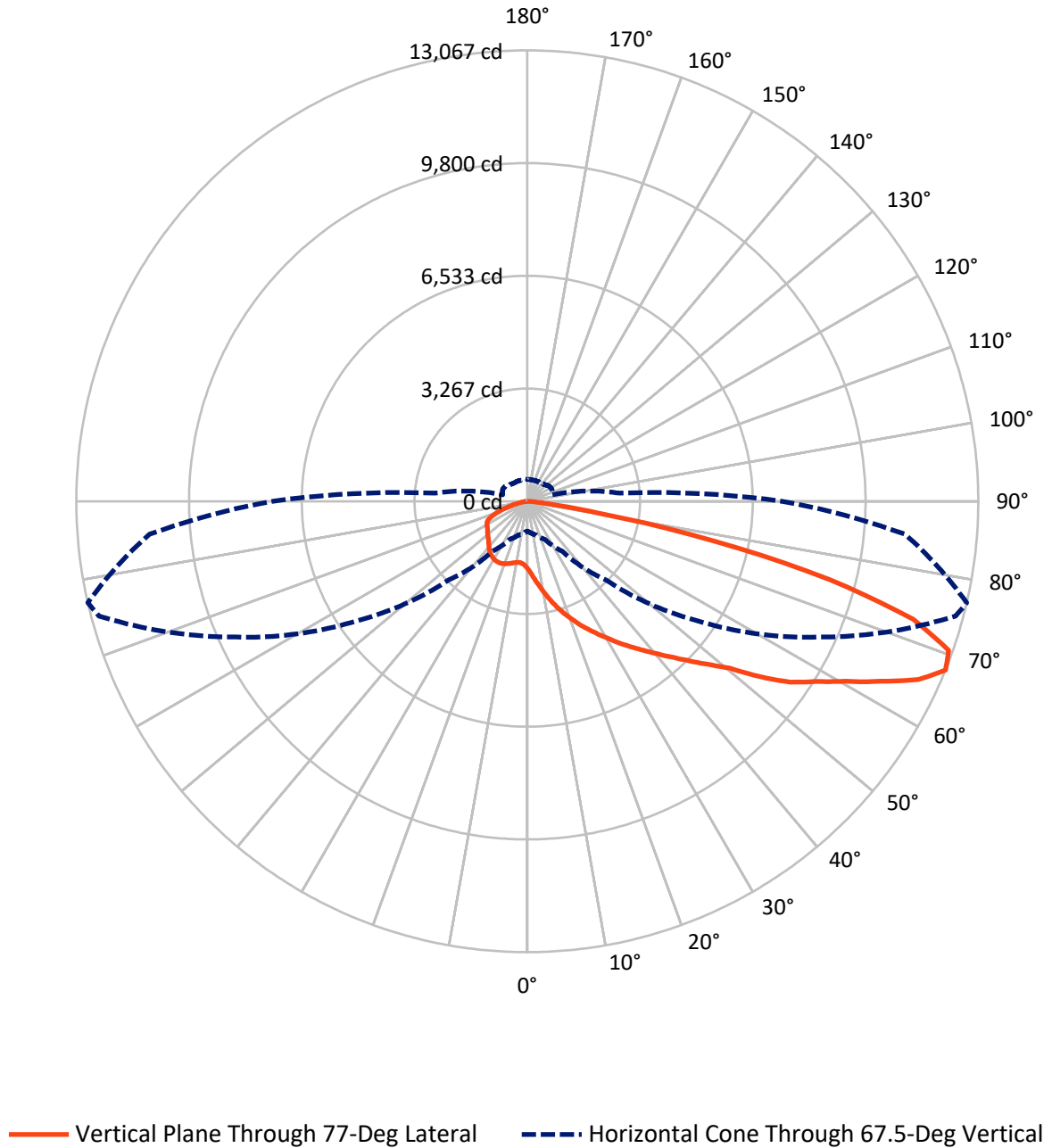
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	3150.8	0.0	3150.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	13506.2	0.0	13506.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	16657.0	0.0	16657.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.3
10°-20°	752.6	4.5
20°-30°	1421.0	8.5
30°-40°	2289.2	13.7
40°-50°	3131.1	18.8
50°-60°	3532.0	21.2
60°-70°	3296.6	19.8
70°-80°	1807.1	10.8
80°-90°	218.0	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°	16657.0	100.0
0°-180°	16657.0	100.0



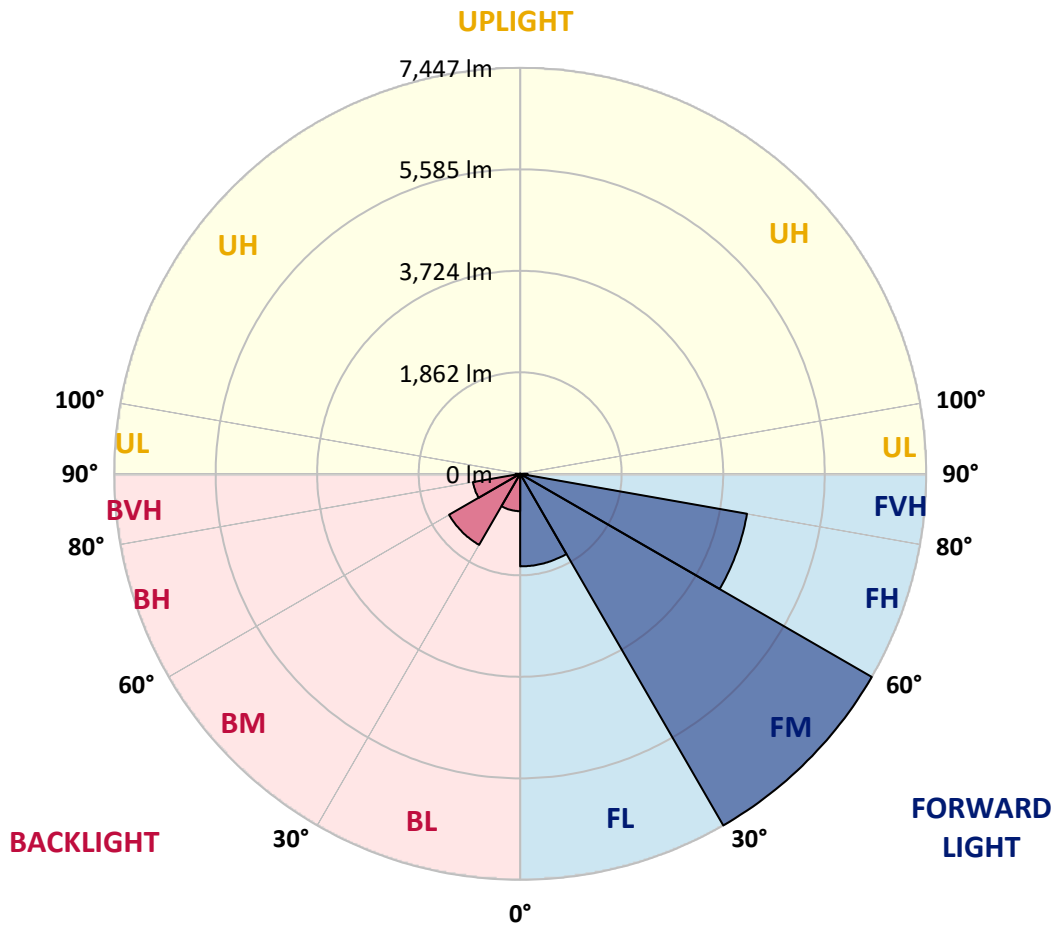
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.0	10.2			
FM (30°-60°)	7447.2	44.7			
FH (60°-80°)	4224.7	25.4			G2/5000
FVH (80°-90°)	136.3	0.8			G2/225
BL (0°-30°)	685.1	4.1	B2/1000		
BM (30°-60°)	1505.1	9.0	B2/2500		
BH (60°-80°)	879.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	81.7	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°	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4
2.5°	2447.1	2464.3	2442.8	2442.8	2370.5	2332.7	2260.5	2205.5	2106.6	2089.4
5°	2892.5	2913.9	2883.9	2871.0	2785.8	2707.6	2586.4	2466.8	2290.6	2272.5
7.5°	3237.2	3264.8	3238.1	3224.3	3148.7	3061.0	2919.1	2752.3	2503.8	2468.6
10°	3518.4	3522.7	3514.1	3519.3	3459.9	3387.7	3242.4	3048.1	2737.7	2689.5
12.5°	3677.5	3697.3	3714.4	3745.4	3735.1	3690.4	3559.7	3327.5	2985.3	2923.4
15°	3752.3	3786.7	3825.4	3896.7	3954.3	3965.5	3865.8	3627.6	3237.2	3162.4
17.5°	3778.9	3811.6	3872.7	3975.8	4099.6	4183.1	4138.3	3919.1	3486.6	3400.6
20°	3913.9	3923.4	3960.4	4058.4	4192.5	4330.9	4364.5	4199.4	3733.4	3636.2
22.5°	4202.8	4183.9	4194.2	4238.9	4335.2	4469.4	4545.9	4447.0	3987.0	3875.2
25°	4680.0	4625.0	4570.0	4518.4	4567.4	4643.1	4729.9	4694.6	4252.7	4110.8
27.5°	5282.8	5215.7	5094.5	4925.1	4865.8	4892.4	4931.1	4924.2	4498.6	4355.0
30°	5876.0	5797.8	5653.4	5408.3	5251.8	5181.3	5152.1	5132.3	4766.0	4613.0
32.5°	6349.8	6287.9	6146.0	5871.7	5644.8	5524.4	5427.2	5356.7	5045.5	4892.4
35°	6764.2	6706.6	6544.1	6244.9	5998.1	5870.0	5742.8	5592.3	5336.1	5181.3
37.5°	7142.6	7085.0	6862.3	6551.0	6302.5	6214.0	6100.5	5845.1	5627.6	5481.4
40°	7381.6	7368.7	7160.6	6808.1	6550.2	6506.3	6468.5	6138.3	5950.9	5815.0
42.5°	7442.7	7471.0	7305.9	7016.2	6770.3	6735.0	6823.6	6470.2	6313.7	6183.9
45°	7295.6	7377.3	7269.0	7072.1	6926.8	6907.8	7138.3	6833.0	6715.2	6596.6
47.5°	6923.3	7061.7	7017.0	6989.5	6968.9	7050.6	7415.1	7218.2	7170.1	7066.9
50°	6171.8	6434.1	6512.3	6686.0	6885.5	7161.5	7667.1	7638.7	7701.5	7597.4
52.5°	4872.6	5233.8	5687.7	6122.8	6629.3	7124.5	7943.9	8242.3	8507.1	8450.4
55°	4022.3	4184.8	4533.9	5331.8	6132.3	6968.9	8068.6	8729.8	9306.8	9256.0
57.5°	3368.8	3514.1	3729.1	4395.4	5380.8	6615.5	8146.0	9027.3	9854.5	9849.3
60°	2668.0	2821.9	3042.1	3514.1	4502.9	6005.0	8128.8	9366.1	10553.5	10596.5
62.5°	1877.0	2046.4	2290.6	2730.8	3606.1	5214.0	7778.0	9611.1	11376.4	11493.3
65°	1233.8	1345.6	1529.6	1909.7	2687.0	4196.8	7108.2	9642.9	12256.8	12454.6
67.5°	865.0	908.0	1016.3	1222.7	1771.2	3218.3	6041.1	9313.6	12844.1	13066.8
70°	675.0	696.5	751.5	834.0	1112.6	2164.2	4629.3	8457.2	12718.5	12950.7
72.5°	583.0	603.6	624.2	634.6	746.3	1336.2	3135.8	7071.2	11536.3	11693.6
75°	528.8	534.0	551.1	547.7	569.2	866.7	1809.9	5152.1	9102.1	9047.9
77.5°	444.5	451.4	479.8	475.5	505.6	592.4	939.8	3324.9	5901.0	5533.0
80°	376.6	380.0	411.0	405.8	439.4	429.1	479.8	1694.7	2503.0	2120.3
82.5°	130.7	161.6	313.8	323.3	335.3	259.7	276.9	691.3	764.4	585.5
85°	63.6	67.9	159.9	227.0	226.1	130.7	135.0	246.8	240.8	189.2
87.5°	10.3	12.9	18.9	88.6	70.5	34.4	46.4	48.2	49.9	43.0
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°
1954.4	0°	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4	1954.4
2024.0	2.5°	1975.9	1932.9	1842.6	1759.2	1693.9	1631.1	1595.8	1565.7	1548.5	1545.1
2118.6	5°	2029.2	1940.6	1776.4	1638.0	1547.7	1480.6	1445.4	1423.0	1411.8	1405.0
2245.9	7.5°	2105.7	1975.9	1742.0	1584.7	1490.1	1441.9	1423.9	1420.4	1419.6	1420.4
2399.8	10°	2211.5	2033.5	1738.6	1571.8	1492.7	1466.0	1465.1	1466.0	1469.4	1470.3
2567.4	12.5°	2325.8	2092.8	1752.3	1582.9	1525.3	1510.7	1508.1	1507.3	1509.9	1511.6
2736.8	15°	2450.5	2171.1	1775.5	1607.0	1561.4	1546.0	1543.4	1538.2	1537.4	1536.5
2914.8	17.5°	2578.6	2248.4	1801.3	1632.8	1584.7	1563.2	1553.7	1541.7	1532.2	1529.6
3098.8	20°	2708.5	2325.0	1819.4	1645.7	1586.4	1556.3	1537.4	1516.7	1500.4	1490.9
3284.5	22.5°	2846.9	2404.9	1830.6	1642.3	1570.9	1529.6	1495.2	1471.2	1446.2	1429.9
3472.0	25°	2981.9	2474.6	1829.7	1624.2	1540.8	1488.4	1444.5	1413.6	1379.2	1362.0
3665.4	27.5°	3111.7	2537.3	1808.2	1592.4	1497.8	1439.3	1386.9	1349.9	1316.4	1300.1
3860.6	30°	3245.8	2589.8	1774.7	1546.0	1447.1	1382.6	1325.0	1293.2	1263.1	1247.6
4067.0	32.5°	3379.1	2637.9	1727.4	1488.4	1388.6	1326.7	1270.0	1240.7	1222.7	1222.7
4288.8	35°	3520.1	2671.5	1664.6	1421.3	1326.7	1267.4	1222.7	1205.5	1203.8	1193.4
4523.5	37.5°	3668.9	2693.0	1588.1	1352.5	1265.7	1209.8	1196.0	1175.4	1158.2	1135.8
4781.5	40°	3825.4	2714.5	1496.1	1281.1	1201.2	1170.2	1164.2	1136.7	1087.7	1032.7
5073.8	42.5°	4015.4	2729.1	1400.7	1209.8	1133.3	1122.9	1131.5	1084.2	1006.0	964.7
5426.4	45°	4235.5	2753.2	1313.0	1139.3	1063.6	1063.6	1099.7	1037.8	973.3	947.5
5828.8	47.5°	4521.0	2809.1	1231.3	1061.9	999.1	1016.3	1029.2	981.9	945.8	914.0
6318.9	50°	4933.7	2943.2	1147.0	983.6	950.1	984.5	966.4	938.9	896.8	871.0
7097.9	52.5°	5446.1	3022.3	1072.2	913.1	908.0	942.4	916.6	890.8	859.0	824.6
7688.6	55°	5795.2	3036.9	1009.4	861.5	879.6	876.2	866.7	843.5	826.3	780.7
8271.5	57.5°	6185.6	3066.1	957.8	830.6	861.5	823.7	820.3	800.5	778.1	747.2
8982.6	60°	6652.5	3111.7	913.1	818.6	846.1	789.3	772.1	764.4	742.0	726.6
9838.1	62.5°	7161.5	3153.0	867.6	820.3	828.0	755.8	730.0	727.4	713.7	708.5
10641.2	65°	7508.9	3040.3	810.8	818.6	799.6	721.4	688.7	687.9	676.7	675.0
10989.4	67.5°	7387.6	2683.5	734.3	794.5	770.4	687.0	650.9	647.4	632.8	633.7
10625.7	70°	6780.6	2174.5	628.5	735.2	734.3	656.0	611.3	600.2	580.4	583.8
9238.8	72.5°	5642.2	1611.3	486.7	636.3	676.7	627.7	565.8	547.7	522.8	526.2
6820.1	75°	4074.7	1095.4	354.2	484.1	589.0	594.1	521.1	490.1	460.0	465.2
3796.1	77.5°	2085.1	620.8	260.5	333.6	462.6	540.0	480.6	439.4	432.5	480.6
1094.6	80°	680.1	311.3	180.6	233.9	303.5	442.0	421.3	374.0	372.3	383.5
229.6	82.5°	202.9	131.6	116.1	153.9	167.7	338.8	363.7	282.9	243.3	256.2
76.5	85°	69.6	63.6	66.2	76.5	80.0	198.6	254.5	187.4	177.1	195.2
17.2	87.5°	16.3	22.4	18.9	17.2	17.2	48.2	98.9	78.2	108.3	72.2
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>
1954.4
1545.1
1404.1
1423.0
1471.2
1512.4
1535.6
1532.2
1494.4
1430.7
1362.0
1299.2
1246.7
1223.5
1190.9
1132.4
1024.9
965.6
951.8
913.1
868.4
817.7
781.6
736.9
730.9
708.5
674.1
633.7
587.3
525.4
466.9
473.8
329.3
264.8
192.6
69.6
0.0

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