

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: P947301

Luminaire Tested: **GALN-SB2C-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947301  
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-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

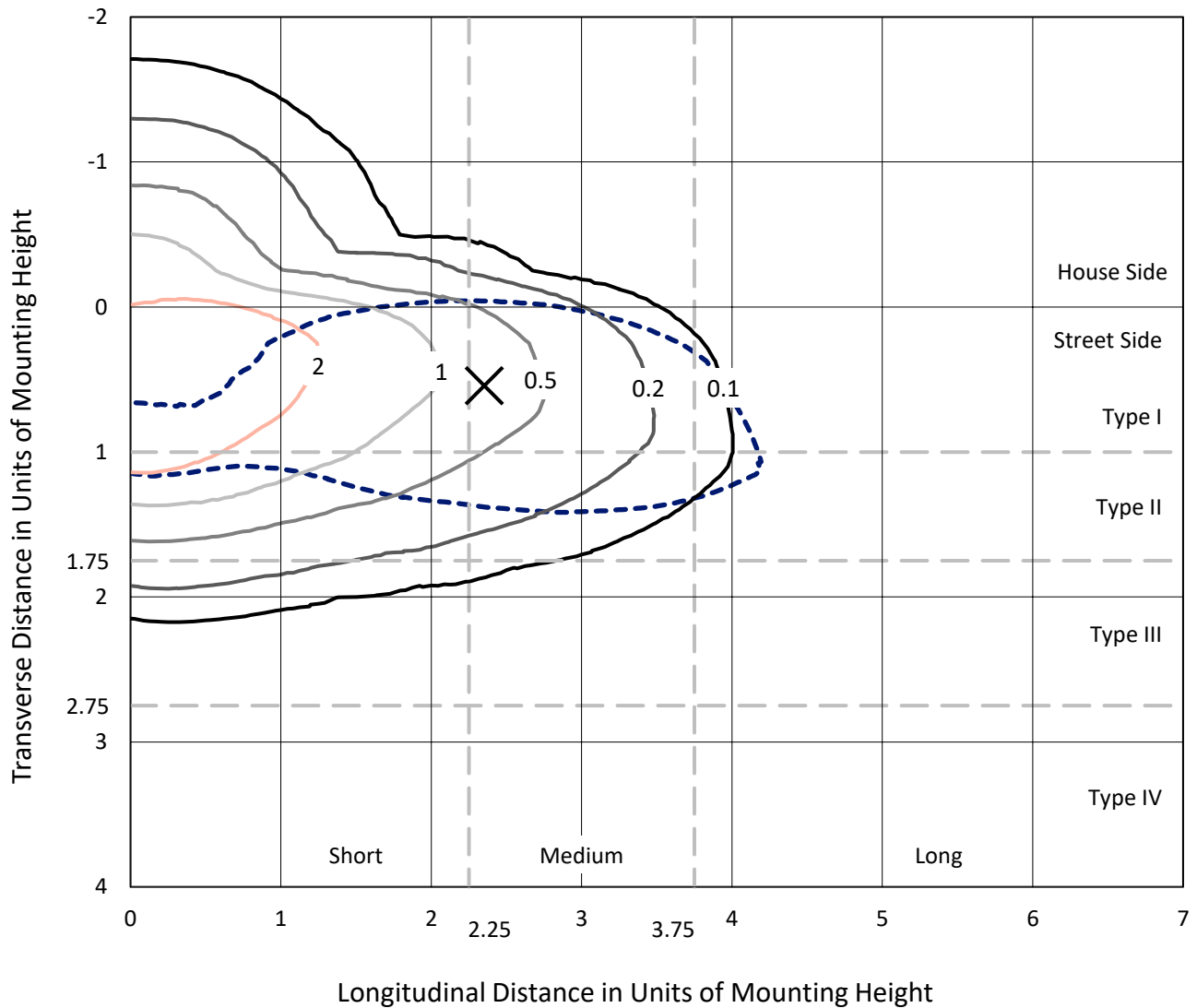
Lumens per Lamp: N/A  
Luminaire Lumens: 11054 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

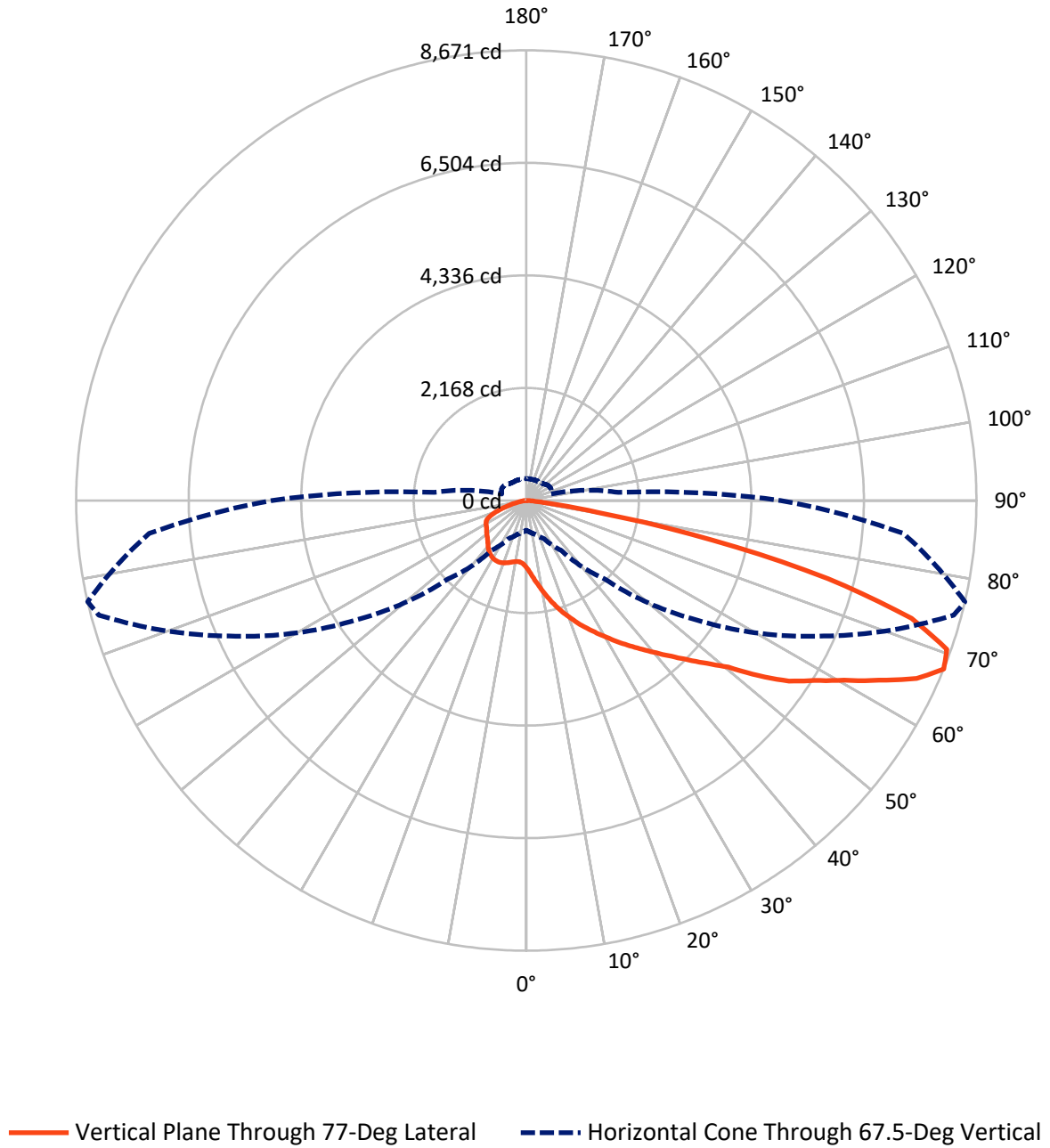
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2091.0	0.0	2091.0
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	8963.0	0.0	8963.0
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	11054.0	0.0	11054.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.0	1.3
10°-20°	499.4	4.5
20°-30°	943.0	8.5
30°-40°	1519.1	13.7
40°-50°	2077.9	18.8
50°-60°	2343.9	21.2
60°-70°	2187.7	19.8
70°-80°	1199.2	10.8
80°-90°	144.7	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°	11054.0	100.0
0°-180°	11054.0	100.0

**Coefficient of Utilization**



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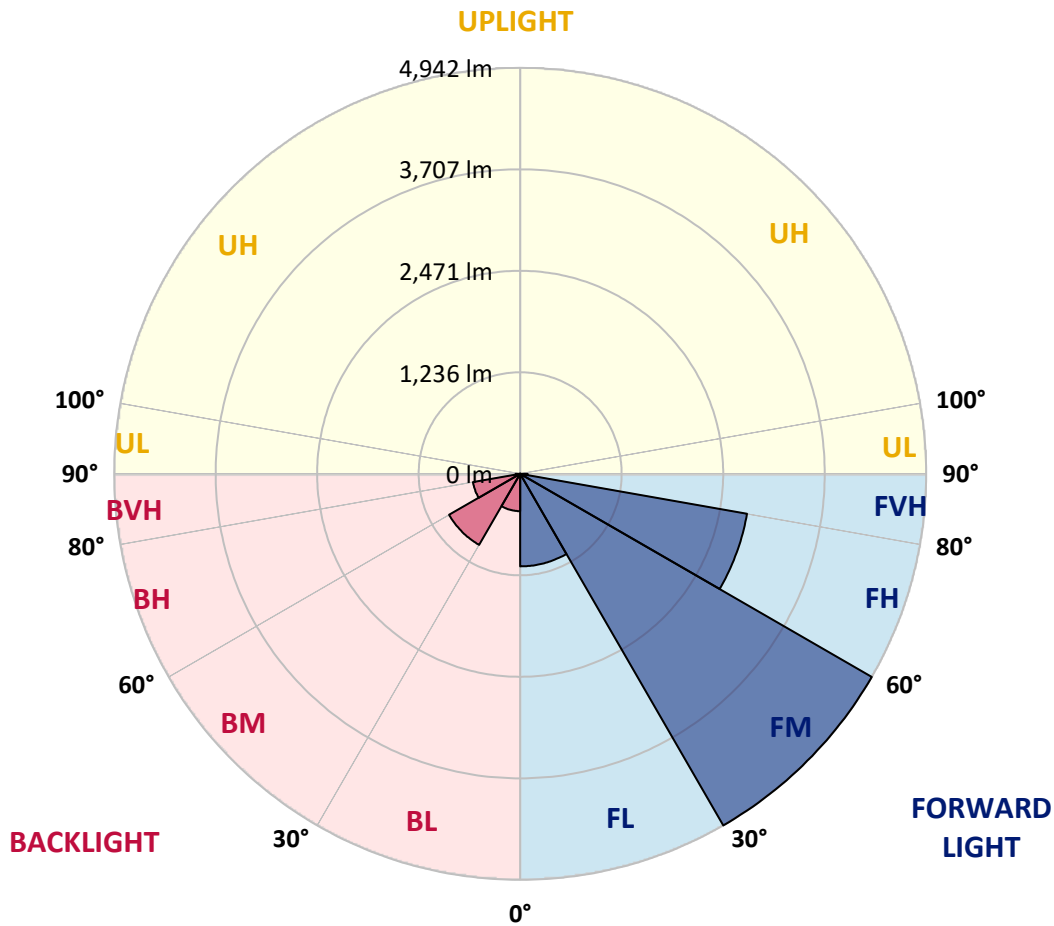
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.8	10.2			
FM (30°-60°)	4942.1	44.7			
FH (60°-80°)	2803.6	25.4			G2/5000
FVH (80°-90°)	90.5	0.8			G1/100
BL (0°-30°)	454.6	4.1	B1/500		
BM (30°-60°)	998.8	9.0	B1/1000		
BH (60°-80°)	583.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	54.2	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°	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
2.5°	1623.9	1635.3	1621.1	1621.1	1573.1	1548.0	1500.1	1463.6	1398.0	1386.6
5°	1919.5	1933.8	1913.8	1905.2	1848.7	1796.8	1716.4	1637.1	1520.1	1508.1
7.5°	2148.3	2166.6	2148.9	2139.8	2089.5	2031.3	1937.2	1826.5	1661.6	1638.2
10°	2334.9	2337.8	2332.0	2335.5	2296.1	2248.2	2151.7	2022.8	1816.8	1784.8
12.5°	2440.5	2453.6	2465.0	2485.5	2478.7	2449.0	2362.3	2208.2	1981.1	1940.0
15°	2490.1	2512.9	2538.6	2586.0	2624.2	2631.6	2565.4	2407.4	2148.3	2098.7
17.5°	2507.8	2529.5	2570.0	2638.5	2720.6	2776.0	2746.3	2600.8	2313.8	2256.7
20°	2597.4	2603.7	2628.2	2693.2	2782.3	2874.1	2896.4	2786.8	2477.6	2413.1
22.5°	2789.1	2776.5	2783.4	2813.1	2877.0	2966.0	3016.8	2951.2	2645.9	2571.7
25°	3105.8	3069.3	3032.7	2998.5	3031.0	3081.2	3138.9	3115.5	2822.2	2728.0
27.5°	3505.8	3461.3	3380.8	3268.4	3229.0	3246.7	3272.4	3267.8	2985.4	2890.1
30°	3899.5	3847.6	3751.7	3589.1	3485.2	3438.4	3419.0	3405.9	3162.8	3061.3
32.5°	4213.9	4172.8	4078.7	3896.6	3746.0	3666.1	3601.6	3554.8	3348.3	3246.7
35°	4488.9	4450.7	4342.8	4144.3	3980.5	3895.5	3811.0	3711.2	3541.2	3438.4
37.5°	4740.0	4701.8	4554.0	4347.4	4182.5	4123.7	4048.4	3879.0	3734.6	3637.6
40°	4898.6	4890.1	4752.0	4518.0	4346.8	4317.7	4292.6	4073.5	3949.1	3859.0
42.5°	4939.1	4958.0	4848.4	4656.1	4492.9	4469.5	4528.3	4293.8	4189.9	4103.8
45°	4841.6	4895.8	4823.9	4693.2	4596.8	4584.2	4737.1	4534.6	4456.4	4377.7
47.5°	4594.5	4686.4	4656.7	4638.4	4624.7	4678.9	4920.9	4790.2	4758.2	4689.8
50°	4095.8	4269.8	4321.7	4437.0	4569.4	4752.5	5088.1	5069.2	5110.9	5041.8
52.5°	3233.6	3473.3	3774.5	4063.3	4399.3	4728.0	5271.8	5469.8	5645.5	5607.9
55°	2669.3	2777.1	3008.8	3538.3	4069.5	4624.7	5354.5	5793.3	6176.2	6142.5
57.5°	2235.6	2332.0	2474.7	2916.9	3570.8	4390.2	5405.9	5990.7	6539.7	6536.2
60°	1770.6	1872.7	2018.8	2332.0	2988.2	3985.1	5394.5	6215.6	7003.6	7032.1
62.5°	1245.6	1358.0	1520.1	1812.2	2393.1	3460.1	5161.7	6378.2	7549.6	7627.2
65°	818.8	893.0	1015.1	1267.3	1783.1	2785.1	4717.2	6399.3	8133.9	8265.2
67.5°	574.0	602.6	674.5	811.4	1175.4	2135.8	4009.0	6180.8	8523.6	8671.4
70°	447.9	462.2	498.7	553.5	738.4	1436.2	3072.1	5612.4	8440.3	8594.4
72.5°	386.9	400.6	414.3	421.1	495.3	886.7	2081.0	4692.6	7655.8	7760.2
75°	350.9	354.3	365.8	363.5	377.7	575.2	1201.1	3419.0	6040.4	6004.4
77.5°	295.0	299.6	318.4	315.5	335.5	393.1	623.7	2206.5	3916.0	3671.8
80°	249.9	252.2	272.7	269.3	291.6	284.7	318.4	1124.7	1661.0	1407.1
82.5°	86.7	107.3	208.3	214.5	222.5	172.3	183.7	458.8	507.3	388.6
85°	42.2	45.1	106.1	150.6	150.1	86.7	89.6	163.8	159.8	125.5
87.5°	6.8	8.6	12.6	58.8	46.8	22.8	30.8	32.0	33.1	28.5
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°
1297.0	0°	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
1343.2	2.5°	1311.2	1282.7	1222.8	1167.5	1124.1	1082.4	1059.0	1039.1	1027.7	1025.4
1406.0	5°	1346.6	1287.8	1178.9	1087.0	1027.1	982.6	959.2	944.3	936.9	932.4
1490.4	7.5°	1397.4	1311.2	1156.0	1051.6	988.9	956.9	944.9	942.6	942.1	942.6
1592.5	10°	1467.6	1349.5	1153.8	1043.1	990.6	972.9	972.3	972.9	975.2	975.7
1703.8	12.5°	1543.5	1388.8	1162.9	1050.5	1012.2	1002.5	1000.8	1000.3	1002.0	1003.1
1816.2	15°	1626.2	1440.8	1178.3	1066.5	1036.2	1025.9	1024.2	1020.8	1020.2	1019.7
1934.3	17.5°	1711.2	1492.1	1195.4	1083.6	1051.6	1037.4	1031.1	1023.1	1016.8	1015.1
2056.4	20°	1797.4	1542.9	1207.4	1092.1	1052.8	1032.8	1020.2	1006.5	995.7	989.4
2179.7	22.5°	1889.3	1596.0	1214.8	1089.8	1042.5	1015.1	992.3	976.3	959.8	948.9
2304.1	25°	1978.8	1642.2	1214.2	1077.9	1022.5	987.7	958.6	938.1	915.2	903.8
2432.5	27.5°	2065.0	1683.8	1200.0	1056.8	994.0	955.2	920.4	895.8	873.6	862.7
2562.0	30°	2154.0	1718.7	1177.7	1025.9	960.3	917.5	879.3	858.2	838.2	827.9
2698.9	32.5°	2242.5	1750.6	1146.3	987.7	921.5	880.4	842.8	823.4	811.4	811.4
2846.2	35°	2336.0	1772.9	1104.7	943.2	880.4	841.1	811.4	800.0	798.8	792.0
3001.9	37.5°	2434.8	1787.1	1053.9	897.6	839.9	802.8	793.7	780.0	768.6	753.8
3173.1	40°	2538.6	1801.4	992.8	850.2	797.1	776.6	772.6	754.3	721.8	685.3
3367.1	42.5°	2664.7	1811.1	929.5	802.8	752.1	745.2	750.9	719.5	667.6	640.2
3601.1	45°	2810.8	1827.1	871.3	756.0	705.8	705.8	729.8	688.7	645.9	628.8
3868.1	47.5°	3000.2	1864.2	817.1	704.7	663.0	674.5	683.0	651.6	627.7	606.5
4193.4	50°	3274.1	1953.2	761.2	652.8	630.5	653.3	641.4	623.1	595.1	578.0
4710.3	52.5°	3614.2	2005.7	711.5	606.0	602.6	625.4	608.3	591.1	570.0	547.2
5102.3	55°	3845.9	2015.4	669.9	571.7	583.7	581.4	575.2	559.8	548.3	518.1
5489.2	57.5°	4104.9	2034.8	635.7	551.2	571.7	546.6	544.4	531.2	516.4	495.9
5961.1	60°	4414.7	2065.0	606.0	543.2	561.5	523.8	512.4	507.3	492.4	482.2
6528.8	62.5°	4752.5	2092.4	575.7	544.4	549.5	501.6	484.4	482.7	473.6	470.2
7061.8	65°	4983.1	2017.6	538.1	543.2	530.7	478.7	457.1	456.5	449.1	447.9
7292.9	67.5°	4902.6	1780.8	487.3	527.2	511.3	455.9	431.9	429.7	420.0	420.5
7051.5	70°	4499.8	1443.1	417.1	487.9	487.3	435.4	405.7	398.3	385.2	387.4
6131.1	72.5°	3744.3	1069.3	323.0	422.2	449.1	416.5	375.5	363.5	346.9	349.2
4526.0	75°	2704.1	726.9	235.1	321.2	390.9	394.3	345.8	325.2	305.3	308.7
2519.2	77.5°	1383.7	412.0	172.9	221.4	307.0	358.3	319.0	291.6	287.0	319.0
726.4	80°	451.3	206.6	119.8	155.2	201.4	293.3	279.6	248.2	247.1	254.5
152.4	82.5°	134.7	87.3	77.0	102.1	111.3	224.8	241.4	187.7	161.5	170.0
50.8	85°	46.2	42.2	43.9	50.8	53.1	131.8	168.9	124.4	117.5	129.5
11.4	87.5°	10.8	14.8	12.6	11.4	11.4	32.0	65.6	51.9	71.9	47.9
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>
1297.0
1025.4
931.8
944.3
976.3
1003.7
1019.1
1016.8
991.7
949.5
903.8
862.2
827.4
812.0
790.3
751.5
680.2
640.8
631.7
606.0
576.3
542.6
518.7
489.0
485.0
470.2
447.4
420.5
389.7
348.6
309.8
314.4
218.5
175.7
127.8
46.2
0.0

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