

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: P946167

Luminaire Tested: **GALN-SB1D-927-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946167  
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-SB1D-927-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

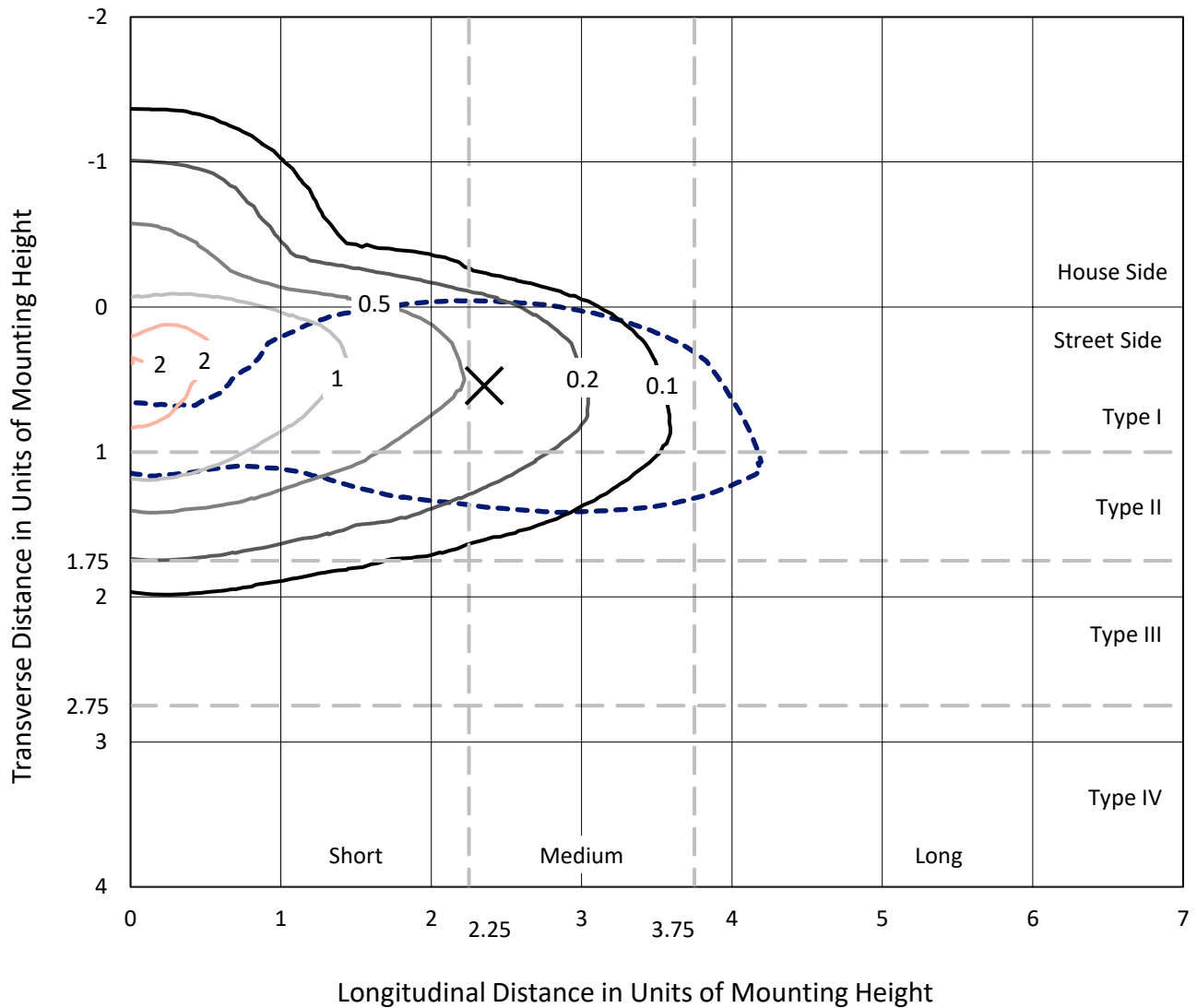
Lumens per Lamp: N/A  
Luminaire Lumens: 6311 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

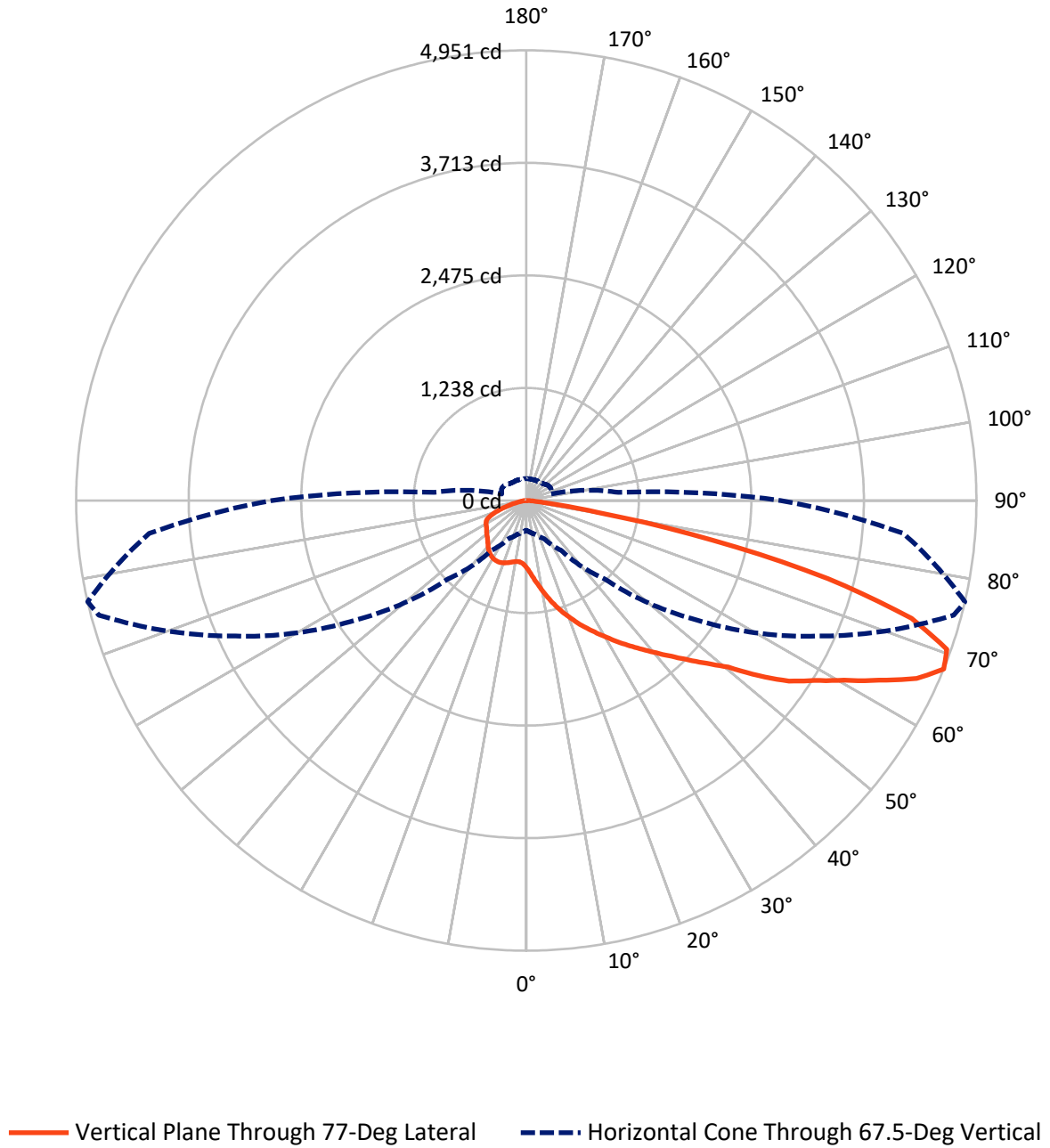
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1193.8	0.0	1193.8
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	5117.2	0.0	5117.2
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	6311.0	0.0	6311.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.4	1.3
10°-20°	285.1	4.5
20°-30°	538.4	8.5
30°-40°	867.3	13.7
40°-50°	1186.3	18.8
50°-60°	1338.2	21.2
60°-70°	1249.0	19.8
70°-80°	684.7	10.8
80°-90°	82.6	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°	6311.0	100.0
0°-180°	6311.0	100.0

**Coefficient of Utilization**



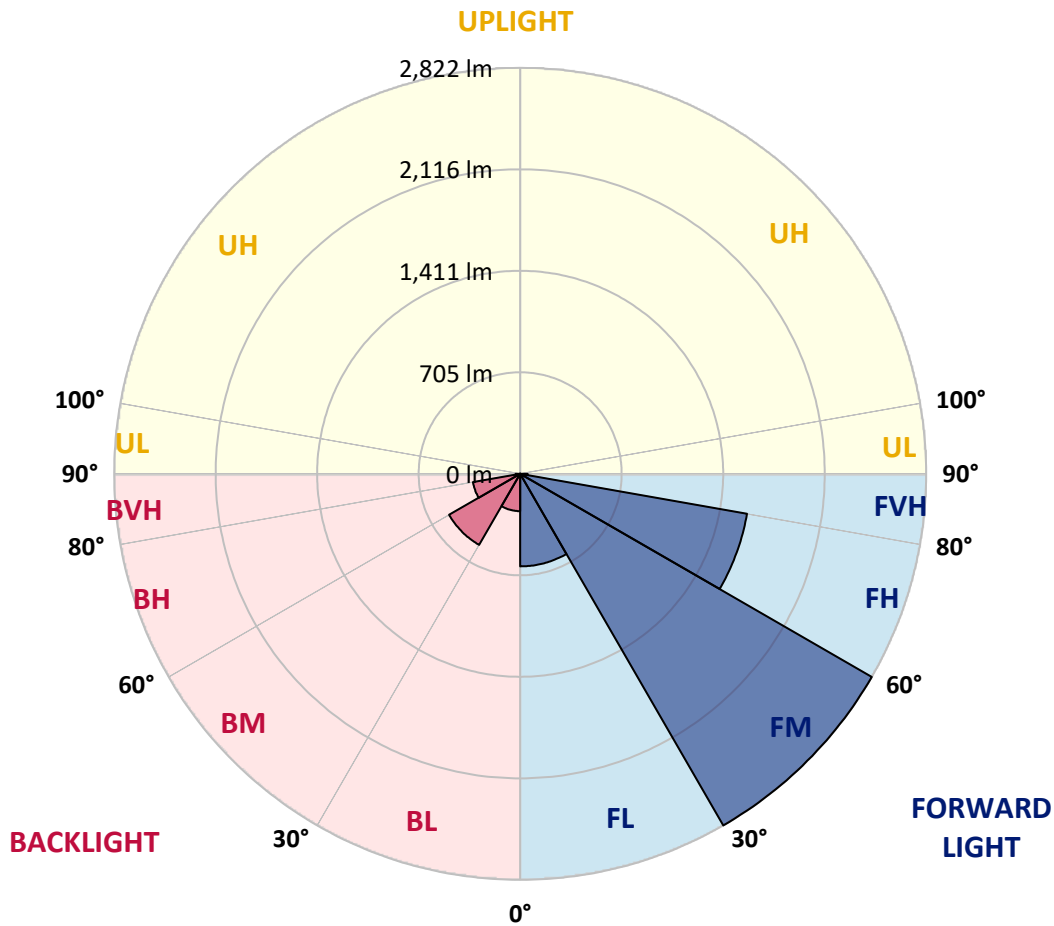
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.3	10.2			
FM (30°-60°)	2821.6	44.7			
FH (60°-80°)	1600.7	25.4			G1/1800
FVH (80°-90°)	51.6	0.8			G1/100
BL (0°-30°)	259.6	4.1	B1/500		
BM (30°-60°)	570.2	9.0	B1/1000		
BH (60°-80°)	333.0	5.3	B1/500		G1/500
BVH (80°-90°)	30.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5
2.5°	927.1	933.7	925.5	925.5	898.1	883.8	856.5	835.6	798.1	791.6
5°	1095.9	1104.0	1092.6	1087.7	1055.5	1025.9	979.9	934.6	867.9	861.0
7.5°	1226.5	1237.0	1226.9	1221.6	1193.0	1159.7	1106.0	1042.8	948.6	935.3
10°	1333.1	1334.7	1331.4	1333.4	1310.9	1283.5	1228.5	1154.9	1037.3	1019.0
12.5°	1393.3	1400.8	1407.3	1419.1	1415.1	1398.2	1348.7	1260.7	1131.1	1107.6
15°	1421.7	1434.7	1449.4	1476.4	1498.2	1502.5	1464.7	1374.4	1226.5	1198.2
17.5°	1431.8	1444.1	1467.3	1506.4	1553.3	1584.9	1567.9	1484.9	1321.0	1288.4
20°	1482.9	1486.5	1500.5	1537.6	1588.5	1640.9	1653.6	1591.1	1414.5	1377.7
22.5°	1592.4	1585.2	1589.1	1606.0	1642.5	1693.4	1722.3	1684.9	1510.6	1468.2
25°	1773.2	1752.3	1731.5	1711.9	1730.5	1759.2	1792.1	1778.7	1611.3	1557.5
27.5°	2001.5	1976.1	1930.2	1866.0	1843.5	1853.6	1868.3	1865.7	1704.4	1650.0
30°	2226.3	2196.7	2141.9	2049.1	1989.8	1963.1	1952.0	1944.5	1805.7	1747.8
32.5°	2405.8	2382.4	2328.6	2224.7	2138.7	2093.1	2056.3	2029.6	1911.6	1853.6
35°	2562.8	2541.0	2479.4	2366.1	2272.6	2224.0	2175.8	2118.8	2021.7	1963.1
37.5°	2706.2	2684.3	2600.0	2482.0	2387.9	2354.3	2311.3	2214.6	2132.2	2076.8
40°	2796.7	2791.9	2713.0	2579.5	2481.7	2465.1	2450.8	2325.7	2254.7	2203.2
42.5°	2819.9	2830.6	2768.1	2658.3	2565.1	2551.8	2585.3	2451.4	2392.1	2342.9
45°	2764.2	2795.1	2754.1	2679.5	2624.4	2617.2	2704.5	2588.9	2544.3	2499.3
47.5°	2623.1	2675.6	2658.6	2648.2	2640.4	2671.3	2809.4	2734.8	2716.6	2677.5
50°	2338.4	2437.7	2467.4	2533.2	2608.8	2713.3	2904.9	2894.1	2917.9	2878.5
52.5°	1846.1	1983.0	2155.0	2319.8	2511.7	2699.3	3009.8	3122.8	3223.2	3201.7
55°	1524.0	1585.5	1717.8	2020.1	2323.4	2640.4	3057.0	3307.5	3526.1	3506.9
57.5°	1276.4	1331.4	1412.9	1665.3	2038.7	2506.5	3086.3	3420.3	3733.7	3731.7
60°	1010.9	1069.2	1152.6	1331.4	1706.1	2275.2	3079.8	3548.6	3998.5	4014.8
62.5°	711.2	775.3	867.9	1034.6	1366.3	1975.5	2946.9	3641.5	4310.3	4354.6
65°	467.5	509.8	579.5	723.5	1018.0	1590.1	2693.1	3653.5	4643.9	4718.8
67.5°	327.7	344.0	385.1	463.2	671.1	1219.4	2288.9	3528.7	4866.4	4950.7
70°	255.7	263.9	284.7	316.0	421.5	820.0	1753.9	3204.3	4818.8	4906.8
72.5°	220.9	228.7	236.5	240.4	282.8	506.2	1188.1	2679.1	4370.9	4430.5
75°	200.3	202.3	208.8	207.5	215.7	328.4	685.7	1952.0	3448.6	3428.1
77.5°	168.4	171.0	181.8	180.2	191.6	224.5	356.1	1259.8	2235.8	2096.3
80°	142.7	144.0	155.7	153.8	166.5	162.6	181.8	642.1	948.3	803.4
82.5°	49.5	61.2	118.9	122.5	127.1	98.4	104.9	261.9	289.6	221.8
85°	24.1	25.7	60.6	86.0	85.7	49.5	51.1	93.5	91.2	71.7
87.5°	3.9	4.9	7.2	33.6	26.7	13.0	17.6	18.2	18.9	16.3
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°
740.5	0°	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5
766.9	2.5°	748.6	732.3	698.1	666.5	641.8	618.0	604.6	593.2	586.7	585.4
802.7	5°	768.8	735.3	673.0	620.6	586.4	561.0	547.6	539.2	534.9	532.3
850.9	7.5°	797.8	748.6	660.0	600.4	564.6	546.3	539.5	538.2	537.8	538.2
909.2	10°	837.9	770.4	658.7	595.5	565.5	555.4	555.1	555.4	556.7	557.1
972.8	12.5°	881.2	792.9	663.9	599.7	577.9	572.4	571.4	571.1	572.1	572.7
1036.9	15°	928.4	822.6	672.7	608.9	591.6	585.7	584.8	582.8	582.5	582.2
1104.4	17.5°	977.0	851.9	682.5	618.6	600.4	592.3	588.7	584.1	580.5	579.5
1174.1	20°	1026.2	880.9	689.3	623.5	601.0	589.6	582.5	574.7	568.5	564.9
1244.4	22.5°	1078.6	911.2	693.6	622.2	595.2	579.5	566.5	557.4	547.9	541.8
1315.5	25°	1129.8	937.6	693.2	615.4	583.8	563.9	547.3	535.6	522.5	516.0
1388.8	27.5°	1179.0	961.3	685.1	603.3	567.5	545.3	525.5	511.5	498.8	492.6
1462.7	30°	1229.8	981.2	672.4	585.7	548.3	523.8	502.0	490.0	478.6	472.7
1540.9	32.5°	1280.3	999.5	654.5	563.9	526.1	502.7	481.2	470.1	463.2	463.2
1624.9	35°	1333.7	1012.2	630.7	538.5	502.7	480.2	463.2	456.7	456.1	452.2
1713.9	37.5°	1390.1	1020.3	601.7	512.4	479.5	458.4	453.1	445.3	438.8	430.3
1811.6	40°	1449.4	1028.5	566.8	485.4	455.1	443.4	441.1	430.7	412.1	391.3
1922.4	42.5°	1521.3	1034.0	530.7	458.4	429.4	425.5	428.7	410.8	381.2	365.5
2055.9	45°	1604.7	1043.1	497.5	431.6	403.0	403.0	416.7	393.2	368.8	359.0
2208.4	47.5°	1712.9	1064.3	466.5	402.3	378.5	385.1	389.9	372.0	358.3	346.3
2394.1	50°	1869.3	1115.1	434.6	372.7	360.0	373.0	366.2	355.7	339.8	330.0
2689.2	52.5°	2063.4	1145.1	406.2	346.0	344.0	357.0	347.3	337.5	325.4	312.4
2913.0	55°	2195.7	1150.6	382.5	326.4	333.3	332.0	328.4	319.6	313.1	295.8
3133.9	57.5°	2343.6	1161.7	362.9	314.7	326.4	312.1	310.8	303.3	294.8	283.1
3403.3	60°	2520.5	1179.0	346.0	310.1	320.6	299.1	292.5	289.6	281.1	275.3
3727.5	62.5°	2713.3	1194.6	328.7	310.8	313.7	286.4	276.6	275.6	270.4	268.4
4031.7	65°	2845.0	1151.9	307.2	310.1	303.0	273.3	260.9	260.6	256.4	255.7
4163.7	67.5°	2799.0	1016.7	278.2	301.0	291.9	260.3	246.6	245.3	239.8	240.1
4025.9	70°	2569.0	823.9	238.1	278.5	278.2	248.6	231.6	227.4	219.9	221.2
3500.4	72.5°	2137.7	610.5	184.4	241.1	256.4	237.8	214.4	207.5	198.1	199.4
2584.0	75°	1543.8	415.0	134.2	183.4	223.2	225.1	197.4	185.7	174.3	176.2
1438.3	77.5°	790.0	235.2	98.7	126.4	175.3	204.6	182.1	166.5	163.9	182.1
414.7	80°	257.7	117.9	68.4	88.6	115.0	167.4	159.6	141.7	141.1	145.3
87.0	82.5°	76.9	49.8	44.0	58.3	63.5	128.4	137.8	107.2	92.2	97.1
29.0	85°	26.4	24.1	25.1	29.0	30.3	75.3	96.4	71.0	67.1	73.9
6.5	87.5°	6.2	8.5	7.2	6.5	6.5	18.2	37.5	29.6	41.0	27.4
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>
740.5
585.4
532.0
539.2
557.4
573.0
581.8
580.5
566.2
542.1
516.0
492.2
472.4
463.6
451.2
429.0
388.3
365.8
360.6
346.0
329.0
309.8
296.1
279.2
276.9
268.4
255.4
240.1
222.5
199.0
176.9
179.5
124.8
100.3
73.0
26.4
0.0

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