

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: P945621

Luminaire Tested: **GALN-SB1C-735-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945621  
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-SB1C-735-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

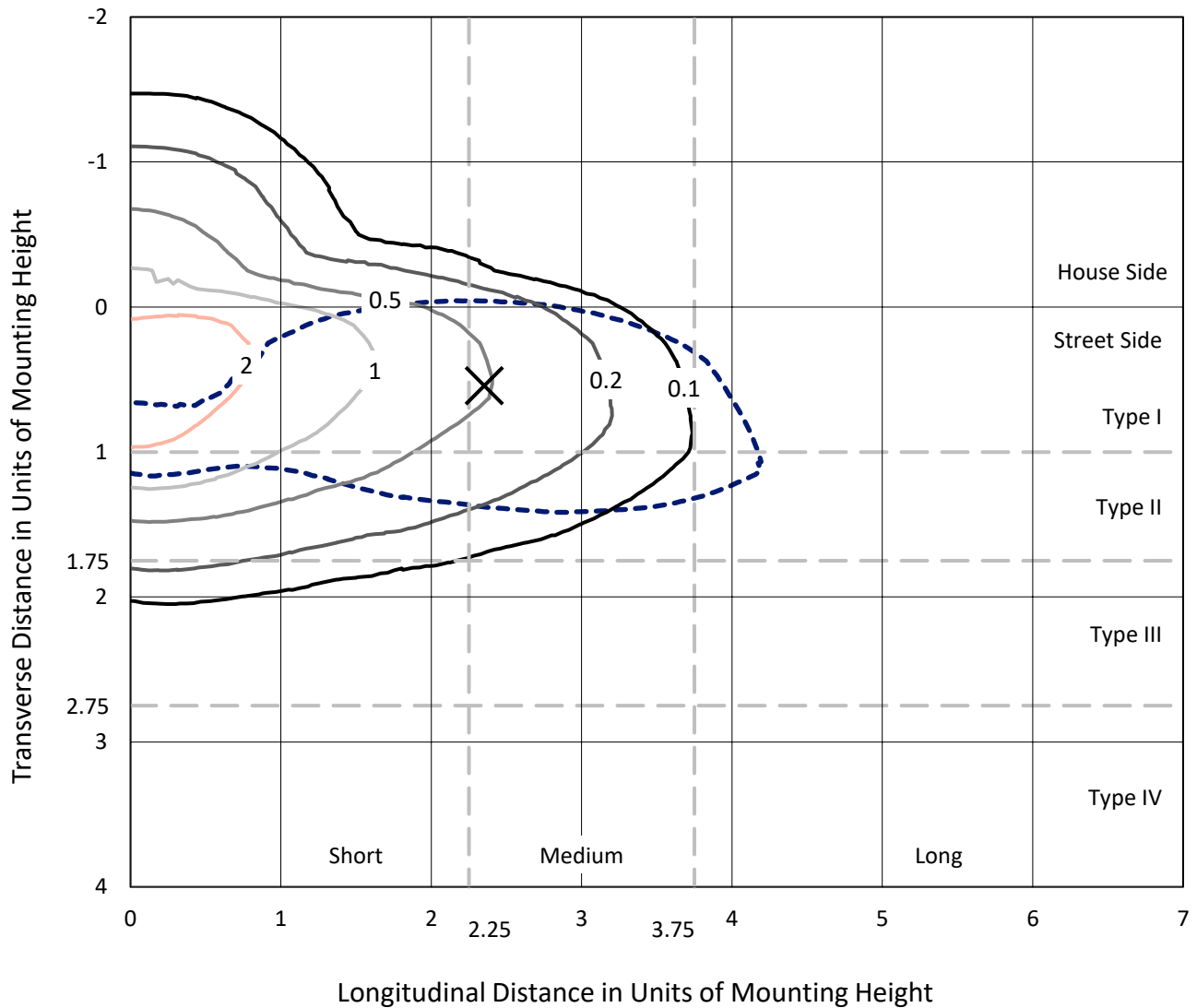
Lumens per Lamp: N/A  
Luminaire Lumens: 7631 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

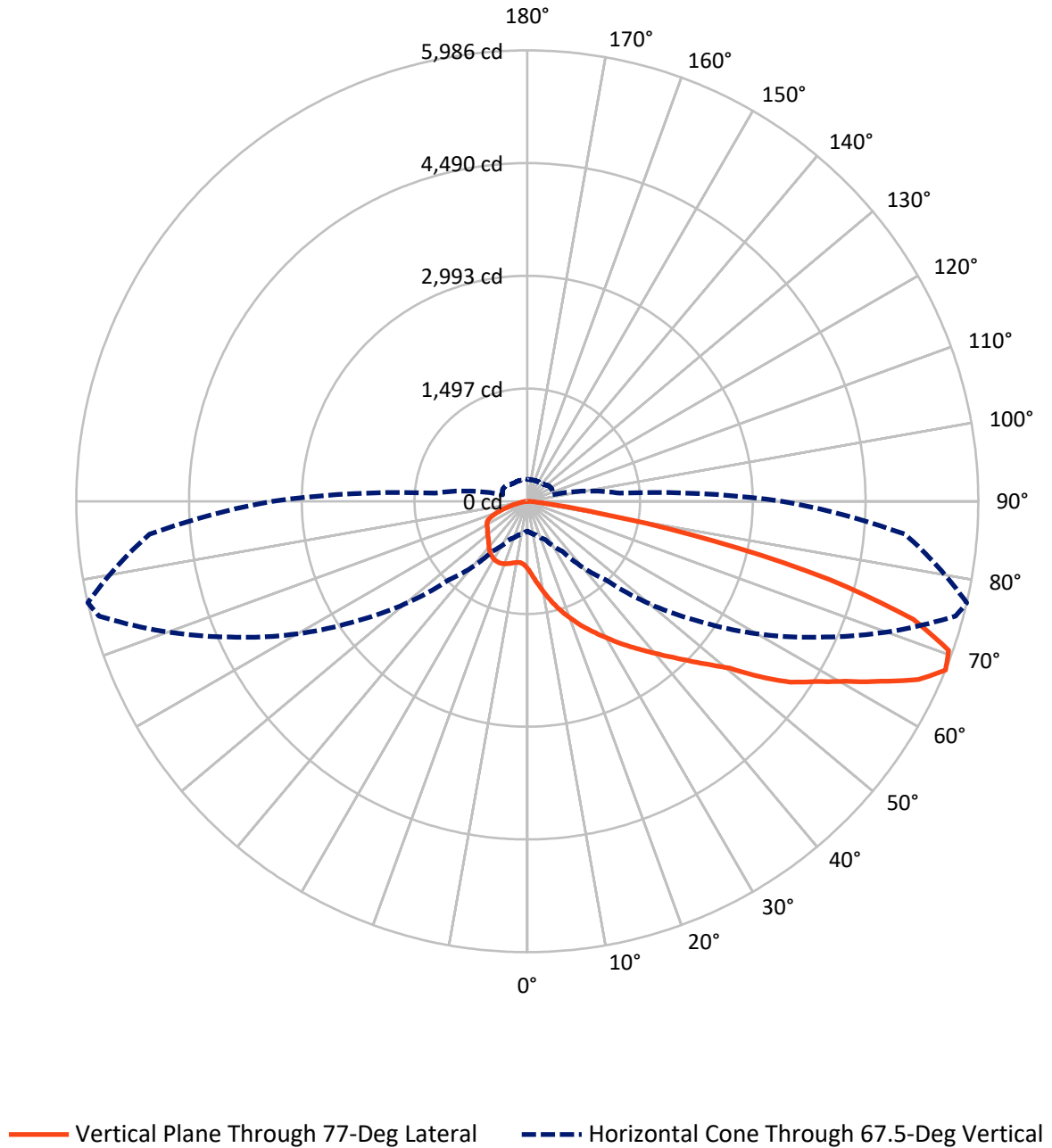
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1443.5	0.0	1443.5
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	6187.5	0.0	6187.5
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	7631.0	0.0	7631.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	1.3
10°-20°	344.8	4.5
20°-30°	651.0	8.5
30°-40°	1048.7	13.7
40°-50°	1434.5	18.8
50°-60°	1618.1	21.2
60°-70°	1510.3	19.8
70°-80°	827.9	10.8
80°-90°	99.9	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°	7631.0	100.0
0°-180°	7631.0	100.0

**Coefficient of Utilization**



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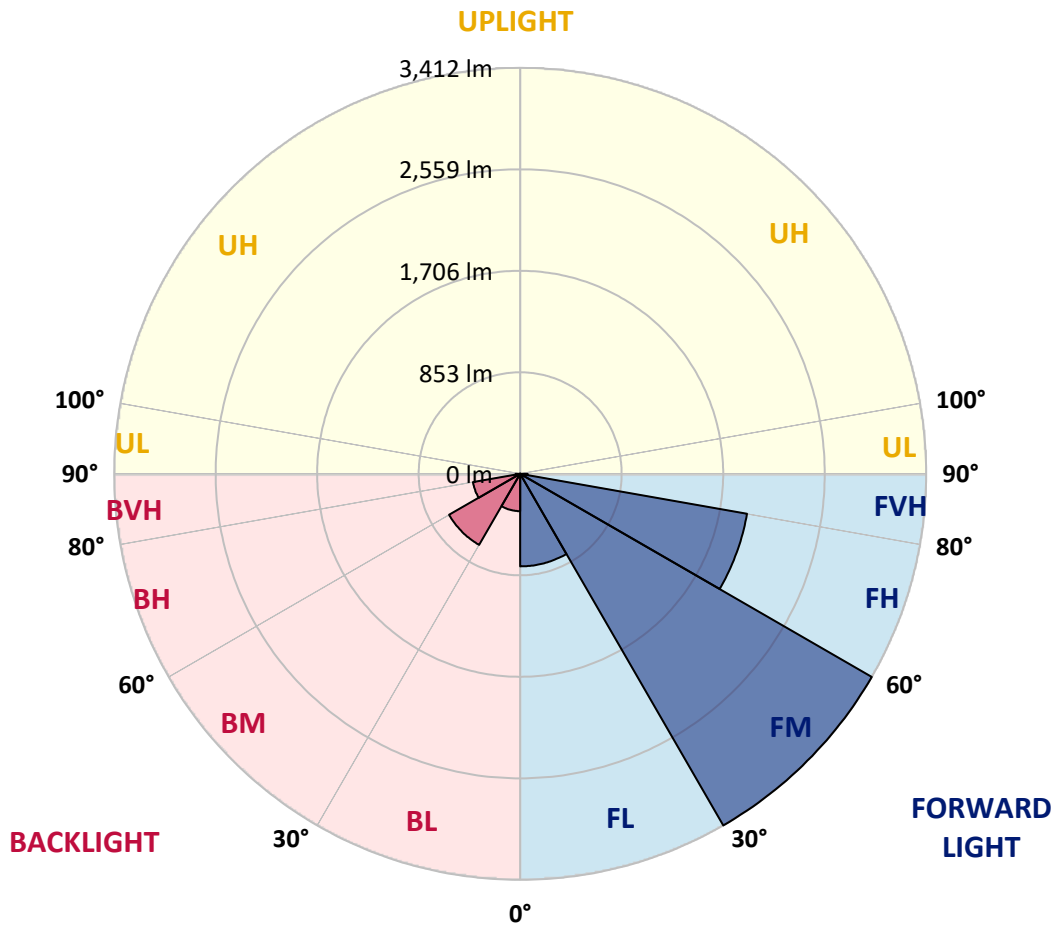
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.9	10.2			
FM (30°-60°)	3411.7	44.7			
FH (60°-80°)	1935.5	25.4			G2/5000
FVH (80°-90°)	62.5	0.8			G1/100
BL (0°-30°)	313.8	4.1	B1/500		
BM (30°-60°)	689.5	9.0	B1/1000		
BH (60°-80°)	402.7	5.3	B1/500		G1/500
BVH (80°-90°)	37.4	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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4
2.5°	1121.1	1128.9	1119.1	1119.1	1086.0	1068.7	1035.6	1010.4	965.1	957.2
5°	1325.1	1335.0	1321.2	1315.3	1276.3	1240.4	1184.9	1130.1	1049.4	1041.1
7.5°	1483.1	1495.7	1483.5	1477.2	1442.5	1402.3	1337.3	1260.9	1147.1	1130.9
10°	1611.9	1613.8	1609.9	1612.3	1585.1	1552.0	1485.4	1396.4	1254.2	1232.1
12.5°	1684.7	1693.8	1701.7	1715.9	1711.1	1690.7	1630.8	1524.4	1367.6	1339.3
15°	1719.0	1734.8	1752.5	1785.2	1811.6	1816.7	1771.0	1661.9	1483.1	1448.8
17.5°	1731.2	1746.2	1774.2	1821.4	1878.2	1916.4	1895.9	1795.4	1597.3	1557.9
20°	1793.1	1797.4	1814.3	1859.2	1920.7	1984.1	1999.5	1923.8	1710.3	1665.8
22.5°	1925.4	1916.8	1921.5	1942.0	1986.1	2047.5	2082.6	2037.3	1826.6	1775.3
25°	2144.0	2118.8	2093.6	2070.0	2092.4	2127.1	2166.9	2150.7	1948.3	1883.3
27.5°	2420.2	2389.4	2333.9	2256.3	2229.1	2241.3	2259.1	2255.9	2060.9	1995.1
30°	2692.0	2656.1	2589.9	2477.7	2406.0	2373.7	2360.3	2351.2	2183.4	2113.3
32.5°	2909.0	2880.7	2815.7	2690.0	2586.0	2530.9	2486.3	2454.0	2311.5	2241.3
35°	3098.9	3072.5	2998.0	2861.0	2747.9	2689.2	2630.9	2562.0	2444.6	2373.7
37.5°	3272.2	3245.8	3143.8	3001.2	2887.3	2846.8	2794.8	2677.8	2578.1	2511.2
40°	3381.7	3375.8	3280.5	3119.0	3000.8	2980.7	2963.4	2812.1	2726.2	2664.0
42.5°	3409.7	3422.7	3347.0	3214.3	3101.6	3085.5	3126.1	2964.2	2892.5	2833.0
45°	3342.3	3379.7	3330.1	3239.9	3173.3	3164.7	3270.2	3130.4	3076.4	3022.1
47.5°	3171.7	3235.2	3214.7	3202.1	3192.6	3230.0	3397.1	3306.9	3284.8	3237.5
50°	2827.5	2947.6	2983.5	3063.0	3154.4	3280.9	3512.5	3499.5	3528.2	3480.6
52.5°	2232.3	2397.7	2605.7	2805.0	3037.0	3263.9	3639.3	3776.0	3897.3	3871.3
55°	1842.7	1917.2	2077.1	2442.6	2809.4	3192.6	3696.4	3999.4	4263.7	4240.4
57.5°	1543.3	1609.9	1708.4	2013.7	2465.1	3030.7	3731.9	4135.6	4514.6	4512.2
60°	1222.3	1292.8	1393.6	1609.9	2062.9	2751.1	3724.0	4290.8	4834.8	4854.5
62.5°	859.9	937.5	1049.4	1251.1	1652.1	2388.7	3563.3	4403.1	5211.8	5265.4
65°	565.3	616.5	700.8	874.9	1231.0	1922.7	3256.4	4417.7	5615.2	5705.8
67.5°	396.3	416.0	465.6	560.1	811.5	1474.4	2767.6	4266.8	5884.2	5986.2
70°	309.2	319.1	344.3	382.1	509.7	991.5	2120.8	3874.5	5826.7	5933.0
72.5°	267.1	276.5	286.0	290.7	341.9	612.1	1436.6	3239.5	5285.1	5357.2
75°	242.3	244.6	252.5	250.9	260.8	397.1	829.2	2360.3	4169.9	4145.1
77.5°	203.7	206.8	219.8	217.8	231.6	271.4	430.5	1523.2	2703.4	2534.8
80°	172.5	174.1	188.3	185.9	201.3	196.6	219.8	776.4	1146.7	971.4
82.5°	59.9	74.1	143.8	148.1	153.6	119.0	126.8	316.7	350.2	268.3
85°	29.1	31.1	73.3	104.0	103.6	59.9	61.8	113.1	110.3	86.7
87.5°	4.7	5.9	8.7	40.6	32.3	15.8	21.3	22.1	22.8	19.7
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°
895.4	0°	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4
927.3	2.5°	905.2	885.5	844.1	805.9	776.0	747.2	731.1	717.3	709.4	707.9
970.6	5°	929.6	889.1	813.8	750.4	709.0	678.3	662.2	651.9	646.8	643.6
1028.9	7.5°	964.7	905.2	798.1	726.0	682.6	660.6	652.3	650.7	650.3	650.7
1099.4	10°	1013.1	931.6	796.5	720.1	683.8	671.6	671.2	671.6	673.2	673.6
1176.2	12.5°	1065.5	958.8	802.8	725.2	698.8	692.1	690.9	690.5	691.7	692.5
1253.8	15°	1122.6	994.6	813.4	736.2	715.3	708.2	707.1	704.7	704.3	703.9
1335.3	17.5°	1181.3	1030.1	825.2	748.0	726.0	716.1	711.8	706.3	701.9	700.8
1419.6	20°	1240.8	1065.1	833.5	753.9	726.8	713.0	704.3	694.9	687.4	683.0
1504.7	22.5°	1304.2	1101.8	838.6	752.4	719.7	700.8	685.0	674.0	662.6	655.1
1590.6	25°	1366.1	1133.7	838.2	744.1	705.9	681.9	661.8	647.6	631.8	624.0
1679.2	27.5°	1425.6	1162.4	828.4	729.5	686.2	659.4	635.4	618.4	603.1	595.6
1768.6	30°	1487.0	1186.5	813.0	708.2	662.9	633.4	607.0	592.4	578.7	571.6
1863.2	32.5°	1548.1	1208.5	791.4	681.9	636.2	607.8	581.8	568.4	560.1	560.1
1964.8	35°	1612.7	1223.9	762.6	651.1	607.8	580.6	560.1	552.3	551.5	546.7
2072.4	37.5°	1680.8	1233.7	727.5	619.6	579.8	554.2	547.9	538.5	530.6	520.4
2190.5	40°	1752.5	1243.6	685.4	586.9	550.3	536.1	533.4	520.7	498.3	473.1
2324.5	42.5°	1839.6	1250.3	641.7	554.2	519.2	514.4	518.4	496.7	460.9	442.0
2486.0	45°	1940.4	1261.3	601.5	521.9	487.3	487.3	503.8	475.4	445.9	434.1
2670.3	47.5°	2071.2	1286.9	564.1	486.5	457.7	465.6	471.5	449.8	433.3	418.7
2894.8	50°	2260.2	1348.3	525.5	450.6	435.3	451.0	442.8	430.1	410.8	399.0
3251.7	52.5°	2495.0	1384.6	491.2	418.3	416.0	431.7	419.9	408.1	393.5	377.8
3522.3	55°	2654.9	1391.3	462.4	394.7	403.0	401.4	397.1	386.4	378.5	357.7
3789.4	57.5°	2833.8	1404.7	438.8	380.5	394.7	377.4	375.8	366.7	356.5	342.3
4115.2	60°	3047.7	1425.6	418.3	375.0	387.6	361.6	353.7	350.2	339.9	332.9
4507.1	62.5°	3280.9	1444.5	397.5	375.8	379.3	346.2	334.4	333.2	326.9	324.6
4875.0	65°	3440.0	1392.9	371.5	375.0	366.3	330.5	315.5	315.1	310.0	309.2
5034.5	67.5°	3384.5	1229.4	336.4	364.0	352.9	314.7	298.2	296.6	289.9	290.3
4867.9	70°	3106.4	996.2	287.9	336.8	336.4	300.6	280.1	274.9	265.9	267.5
4232.5	72.5°	2584.8	738.2	223.0	291.5	310.0	287.6	259.2	250.9	239.5	241.1
3124.5	75°	1866.7	501.8	162.3	221.8	269.8	272.2	238.7	224.5	210.7	213.1
1739.1	77.5°	955.2	284.4	119.4	152.8	211.9	247.4	220.2	201.3	198.1	220.2
501.4	80°	311.6	142.6	82.7	107.1	139.0	202.5	193.0	171.4	170.6	175.7
105.2	82.5°	93.0	60.3	53.2	70.5	76.8	155.2	166.6	129.6	111.5	117.4
35.1	85°	31.9	29.1	30.3	35.1	36.6	91.0	116.6	85.9	81.1	89.4
7.9	87.5°	7.5	10.2	8.7	7.9	7.9	22.1	45.3	35.8	49.6	33.1
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>
895.4
707.9
643.3
651.9
674.0
692.9
703.5
701.9
684.6
655.5
624.0
595.2
571.2
560.5
545.6
518.8
469.5
442.4
436.1
418.3
397.8
374.6
358.1
337.6
334.8
324.6
308.8
290.3
269.0
240.7
213.9
217.0
150.9
121.3
88.2
31.9
0.0

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