

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: P946169

Luminaire Tested: **GALN-SB1D-927-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6279 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

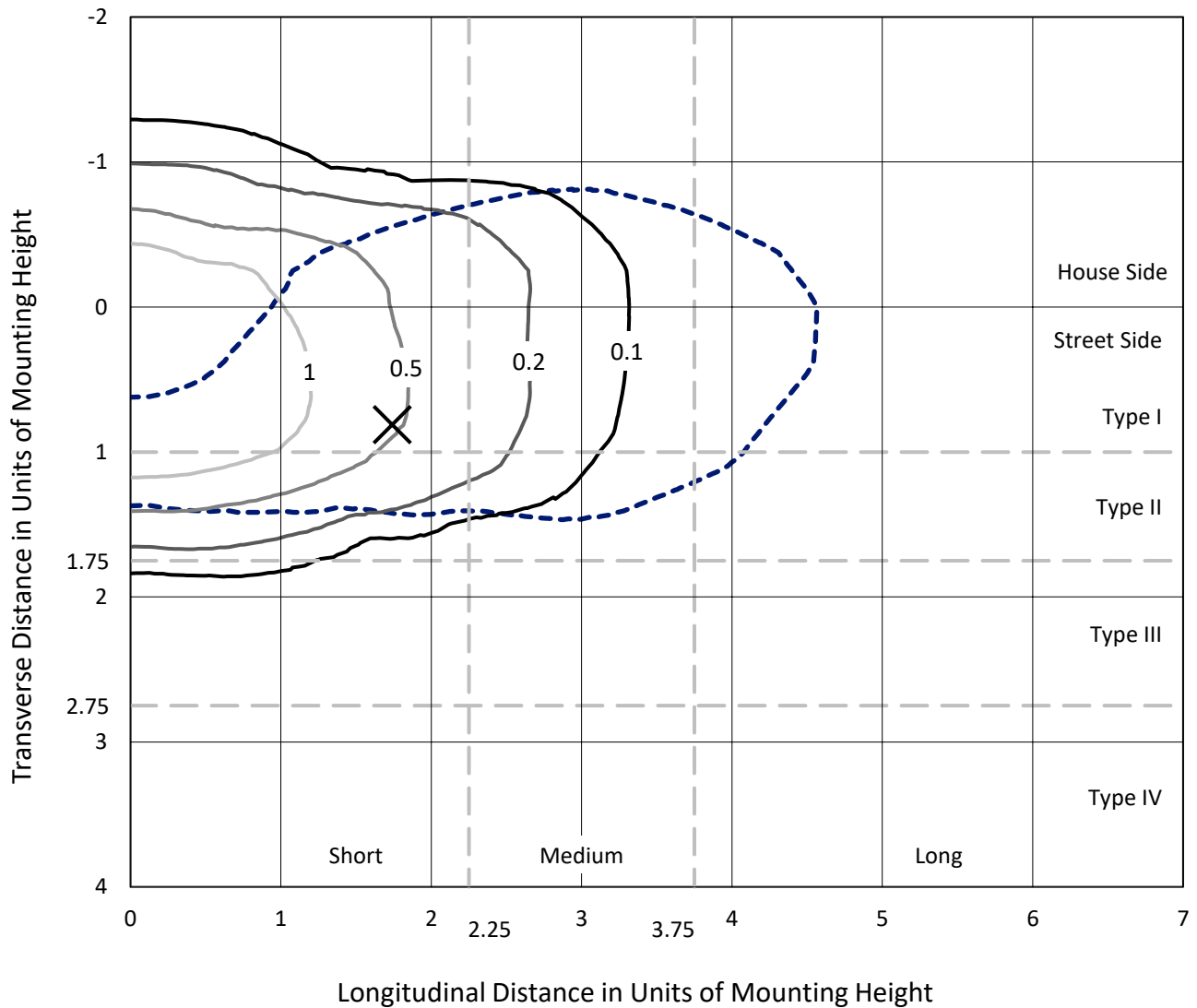
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

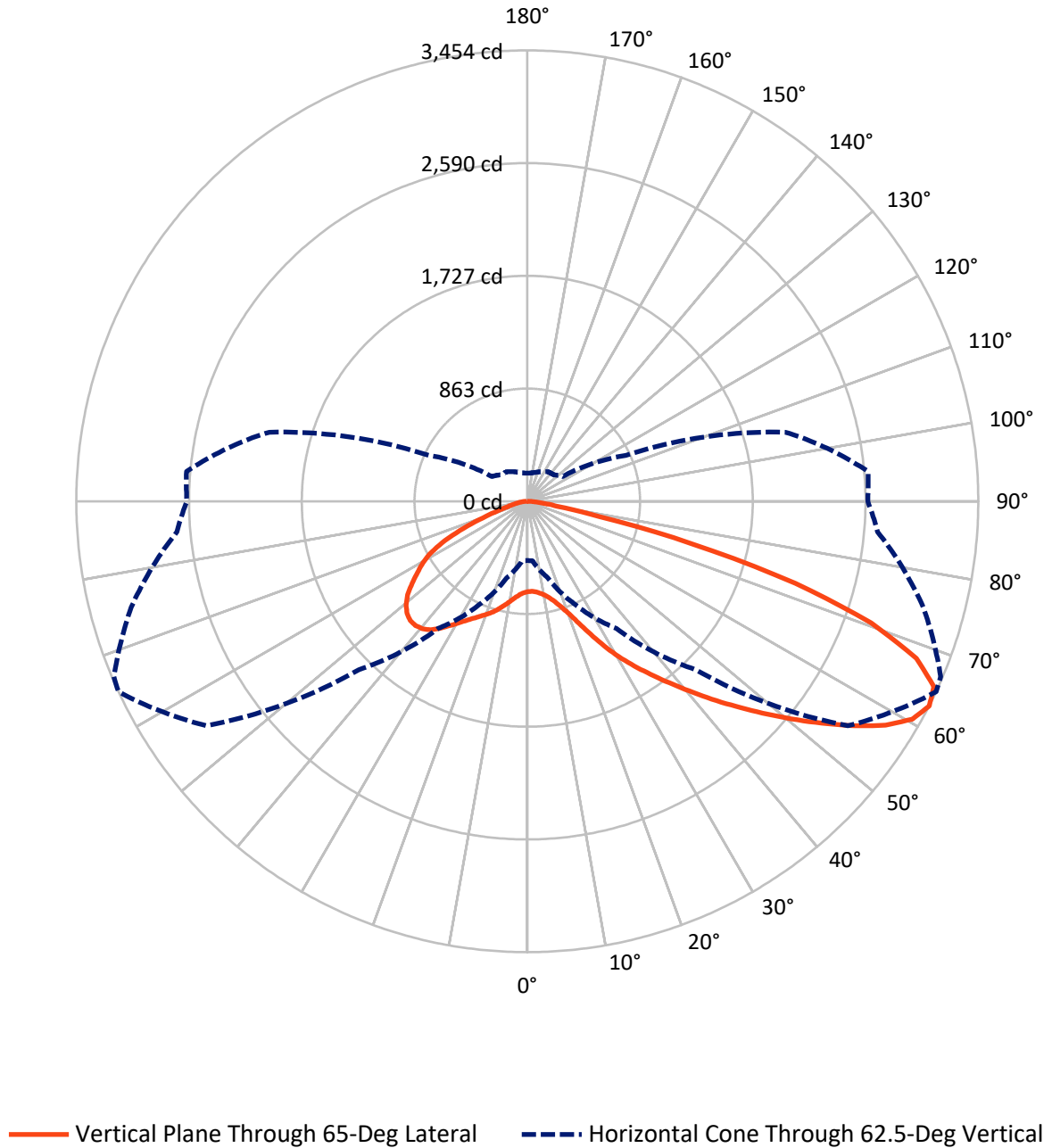
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1981.4	0.0	1981.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	4297.6	0.0	4297.6
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	6279.0	0.0	6279.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	1.1
10°-20°	233.9	3.7
20°-30°	474.3	7.6
30°-40°	820.8	13.1
40°-50°	1242.1	19.8
50°-60°	1456.3	23.2
60°-70°	1220.9	19.4
70°-80°	674.1	10.7
80°-90°	87.6	1.4
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°	6279.0	100.0
0°-180°	6279.0	100.0

**Coefficient of Utilization**



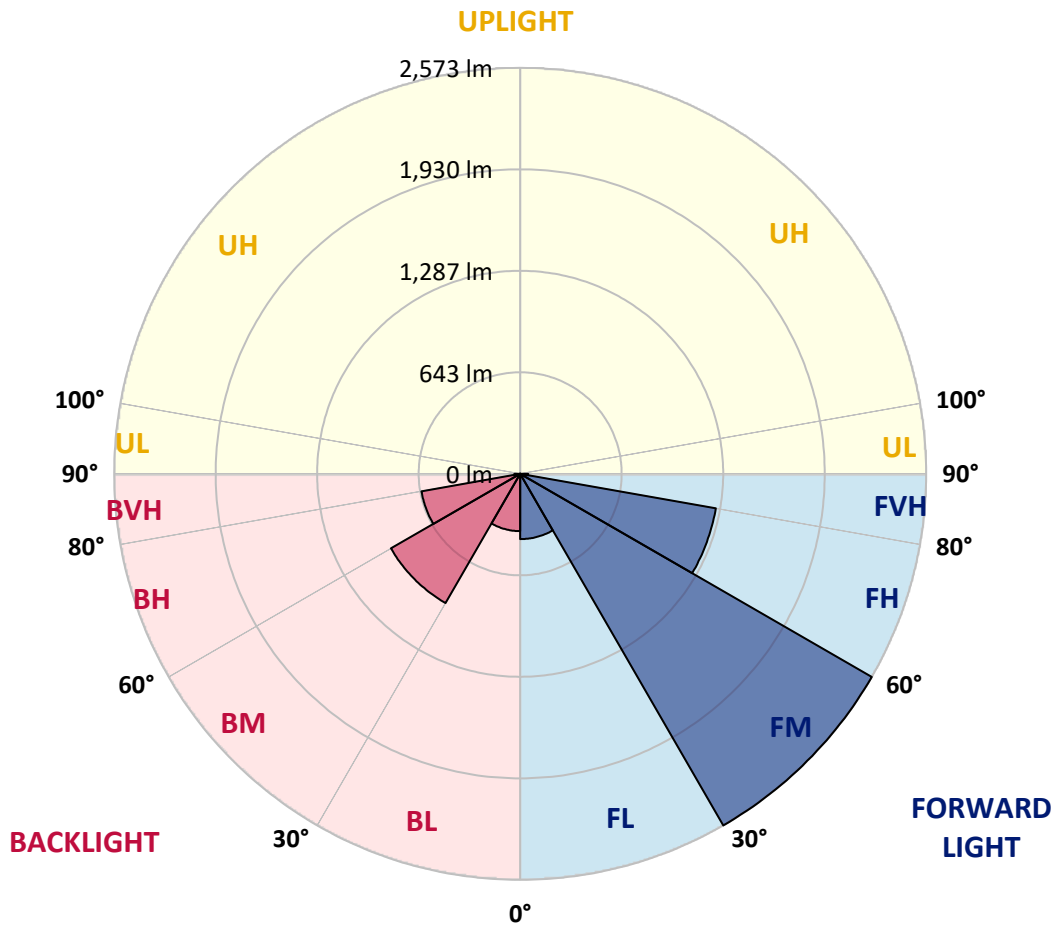
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.9	6.6			
FM (30°-60°)	2573.3	41.0			
FH (60°-80°)	1259.4	20.1			G1/1800
FVH (80°-90°)	51.0	0.8			G1/100
BL (0°-30°)	363.4	5.8	B1/500		
BM (30°-60°)	945.9	15.1	B1/1000		
BH (60°-80°)	635.6	10.1	B2/1000		G2/1000
BVH (80°-90°)	36.5	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.9
2.5°	687.4	685.4	687.0	687.0	687.7	687.4	689.6	690.3	691.3	693.2
5°	680.5	680.2	683.1	685.7	688.3	690.6	693.5	697.8	698.4	700.7
7.5°	678.2	676.3	680.8	684.1	690.3	695.8	703.6	710.8	713.7	714.7
10°	695.8	692.6	696.8	698.8	704.0	709.5	718.6	730.0	733.3	737.2
12.5°	725.8	722.2	728.4	731.3	736.2	741.1	747.3	758.4	760.0	767.2
15°	766.8	762.6	766.5	770.1	778.2	782.8	789.0	799.7	799.7	805.3
17.5°	822.5	817.0	819.9	821.2	826.5	833.3	843.7	853.2	858.1	856.1
20°	905.6	898.8	898.8	892.3	890.3	895.8	909.5	922.6	927.8	917.7
22.5°	1030.4	1020.6	1015.1	992.9	984.1	984.8	998.5	1014.4	1018.7	1000.7
25°	1189.0	1173.7	1166.2	1133.7	1113.8	1096.5	1107.3	1127.8	1133.7	1111.5
27.5°	1347.7	1348.7	1341.5	1302.4	1269.5	1237.9	1232.4	1253.9	1260.0	1235.0
30°	1570.2	1547.0	1533.4	1486.5	1439.5	1395.2	1372.4	1381.2	1382.9	1352.9
32.5°	1762.0	1756.2	1726.9	1685.8	1625.6	1556.2	1518.1	1504.0	1501.4	1458.8
35°	1980.6	1977.4	1946.4	1897.6	1832.4	1736.0	1667.3	1627.2	1623.9	1564.0
37.5°	2202.8	2202.8	2172.5	2119.1	2051.6	1931.1	1826.5	1763.0	1752.6	1674.4
40°	2380.0	2369.3	2374.8	2352.3	2275.1	2147.1	2003.4	1911.2	1897.2	1803.4
42.5°	2480.7	2477.1	2510.3	2535.4	2503.8	2401.5	2198.2	2071.8	2052.3	1945.5
45°	2503.2	2499.2	2558.5	2650.4	2694.7	2652.7	2410.0	2240.9	2217.1	2094.0
47.5°	2451.4	2443.5	2530.5	2675.5	2817.5	2891.5	2639.3	2424.3	2389.8	2238.6
50°	2295.6	2288.2	2419.8	2612.3	2858.9	3053.7	2888.2	2618.8	2566.0	2393.7
52.5°	1957.2	1960.8	2167.0	2431.5	2804.5	3154.7	3102.6	2823.7	2760.2	2552.3
55°	1524.6	1532.4	1785.8	2077.1	2586.9	3139.4	3248.8	3034.8	2971.6	2701.5
57.5°	1091.6	1126.2	1363.6	1651.9	2168.9	2896.7	3280.7	3235.5	3174.2	2864.4
60°	707.6	713.7	958.1	1248.6	1651.6	2465.4	3215.9	3387.6	3339.7	3030.6
62.5°	453.5	457.7	606.6	873.4	1188.7	1823.9	2997.7	3453.7	3439.1	3140.3
65°	333.3	330.0	407.5	577.3	800.7	1124.9	2573.8	3421.8	3450.8	3209.1
67.5°	278.2	273.6	311.8	399.7	590.0	638.8	1904.4	3214.3	3320.5	3201.3
70°	253.4	249.5	272.7	296.8	460.3	427.7	960.0	2794.4	2957.9	3112.3
72.5°	214.7	207.8	239.4	263.5	358.0	328.0	396.8	2146.4	2345.8	2827.3
75°	166.5	161.9	188.9	231.9	269.1	256.0	250.8	1303.4	1521.0	2186.5
77.5°	131.9	125.7	150.5	180.8	242.0	193.2	182.8	561.3	776.9	1395.9
80°	99.4	93.8	114.3	143.0	186.0	145.6	118.3	229.0	292.9	707.2
82.5°	70.7	65.8	79.8	104.9	125.1	130.6	72.6	128.4	144.3	272.7
85°	45.3	42.3	53.4	65.8	79.5	84.0	44.3	67.1	73.6	112.4
87.5°	24.8	20.2	28.7	30.6	36.8	33.6	21.2	24.4	26.4	40.7
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°
691.9	0°	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.9
693.2	2.5°	694.5	695.5	698.8	699.7	702.0	704.9	706.9	708.9	708.9	710.8
703.6	5°	704.0	706.3	713.1	716.7	722.5	728.4	732.0	736.2	738.8	740.1
720.3	7.5°	722.2	725.8	735.6	741.8	751.9	760.0	765.5	771.4	772.7	776.3
743.4	10°	747.0	751.2	762.3	774.0	786.1	796.2	801.4	805.6	807.2	807.9
773.0	12.5°	775.3	781.5	795.8	810.2	822.9	831.7	833.0	832.0	827.4	823.5
809.5	15°	810.2	815.7	831.7	847.3	859.7	861.3	853.2	848.0	842.4	841.4
850.2	17.5°	851.9	854.8	869.5	884.8	885.7	880.2	868.2	863.3	858.1	854.5
903.3	20°	900.4	899.4	909.9	916.4	909.5	892.6	874.3	866.2	861.0	856.8
968.5	22.5°	958.4	950.9	949.6	948.0	929.7	894.2	869.5	859.0	850.9	845.0
1059.4	25°	1042.8	1014.1	994.2	983.1	942.1	885.4	853.8	830.7	815.4	805.3
1170.5	27.5°	1148.3	1100.1	1049.9	1022.9	942.1	867.5	816.0	778.6	753.5	743.1
1278.0	30°	1249.0	1198.5	1124.5	1070.8	939.8	838.2	755.1	703.0	673.7	663.3
1369.8	32.5°	1335.0	1279.9	1203.7	1123.2	934.3	790.6	679.5	621.9	593.5	581.2
1460.7	35°	1414.8	1356.1	1283.2	1180.9	919.6	720.9	596.5	552.5	520.9	501.0
1553.2	37.5°	1496.6	1426.8	1358.4	1233.0	893.2	639.5	532.6	495.2	458.0	431.3
1651.6	40°	1585.5	1502.1	1438.9	1264.0	849.9	561.9	483.1	448.9	409.5	381.1
1765.0	42.5°	1689.4	1592.3	1528.5	1279.9	790.6	506.9	450.9	417.3	380.2	357.0
1886.5	45°	1797.9	1691.7	1610.2	1279.6	724.5	481.2	440.4	407.2	366.2	342.1
2011.3	47.5°	1911.6	1795.6	1680.9	1258.7	667.2	484.7	434.6	385.4	340.1	316.6
2137.3	50°	2025.6	1909.3	1749.3	1219.7	642.7	476.9	412.7	354.8	301.3	280.2
2255.6	52.5°	2138.6	2030.1	1808.3	1163.9	618.0	447.9	384.7	315.0	285.4	270.7
2377.7	55°	2252.3	2149.7	1872.5	1082.8	556.1	414.0	337.8	300.0	272.7	259.3
2497.3	57.5°	2366.3	2287.8	1933.4	1001.7	478.2	372.3	312.1	281.8	260.0	248.6
2597.3	60°	2484.9	2445.8	1996.3	927.1	401.3	318.9	293.2	267.1	245.0	232.3
2693.4	62.5°	2607.1	2619.8	2045.5	831.0	330.6	286.3	276.2	249.5	228.0	216.0
2772.9	65°	2730.2	2787.5	2077.7	697.8	268.1	255.4	258.0	230.3	208.5	198.1
2831.2	67.5°	2823.1	2908.4	2068.6	528.1	219.9	226.1	235.2	210.1	189.6	181.4
2821.8	70°	2833.5	2894.1	1978.7	361.6	184.1	197.4	209.8	190.2	169.1	163.2
2688.8	72.5°	2694.7	2698.6	1728.2	236.2	155.7	173.3	183.1	170.0	149.5	143.7
2352.3	75°	2330.8	2231.8	1268.8	155.7	130.3	148.9	158.0	148.9	129.0	130.3
1760.1	77.5°	1766.0	1580.6	770.4	110.8	108.8	125.1	137.5	131.0	114.0	128.0
885.1	80°	909.9	855.1	343.7	82.7	86.0	100.0	113.0	104.6	90.2	86.0
197.7	82.5°	208.5	242.4	135.5	59.3	62.2	72.0	86.3	78.5	64.8	54.7
82.4	85°	73.0	79.8	59.9	37.1	36.5	45.0	58.6	52.4	44.0	35.2
34.9	87.5°	23.1	30.3	22.5	15.0	15.6	20.2	27.0	24.8	20.5	13.4
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>
691.9
710.8
740.8
775.0
806.3
823.5
841.4
854.8
857.1
847.0
809.2
748.3
669.4
587.3
507.5
438.5
386.7
361.6
346.0
319.9
281.5
270.7
258.0
246.6
231.3
215.7
197.7
181.8
163.5
143.3
125.7
112.7
78.5
54.1
37.1
14.0
0.0

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