

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: P946881

Luminaire Tested: **GALN-SB2B-927-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946881  
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-SB2B-927-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

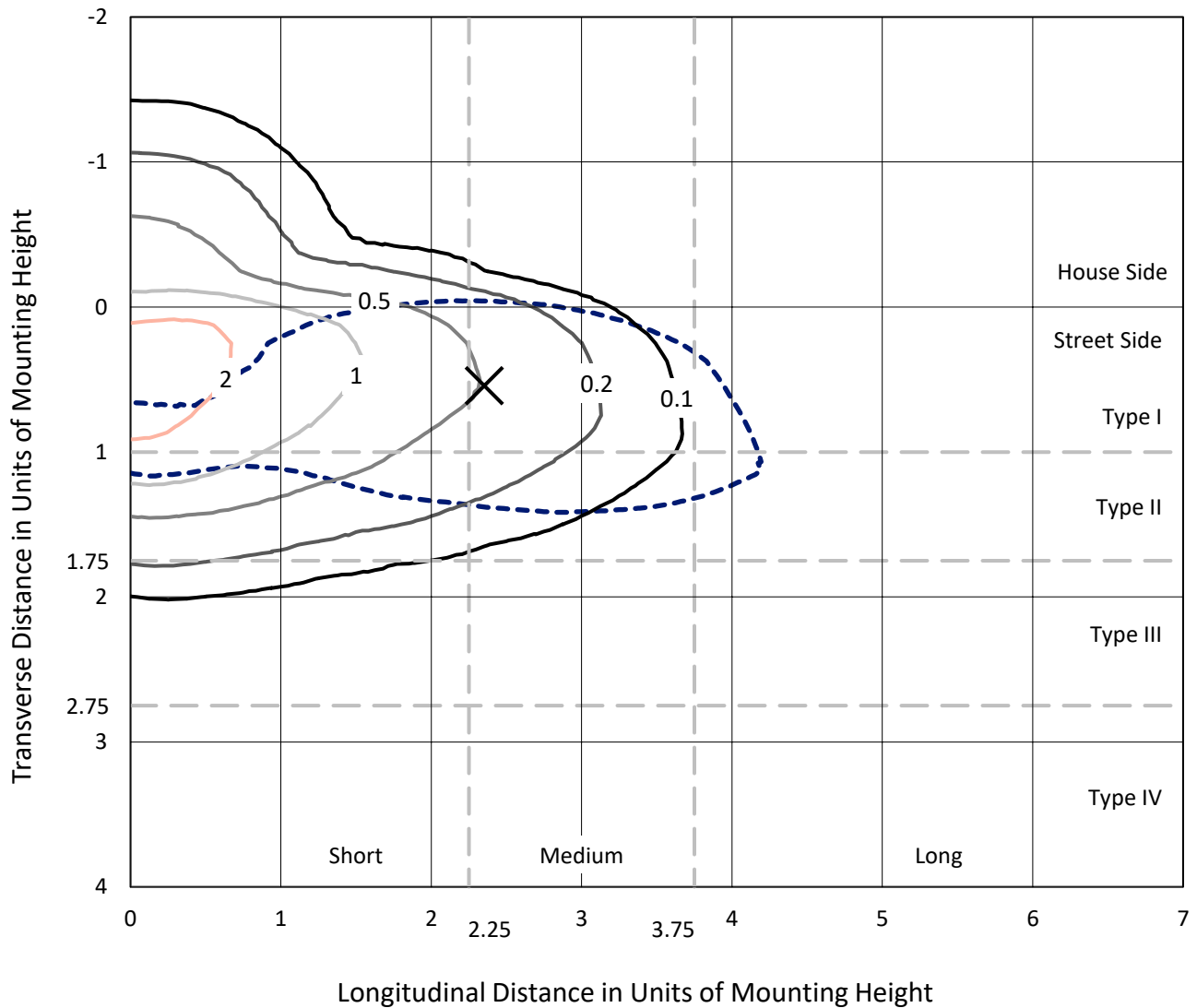
Lumens per Lamp: N/A  
Luminaire Lumens: 6982 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

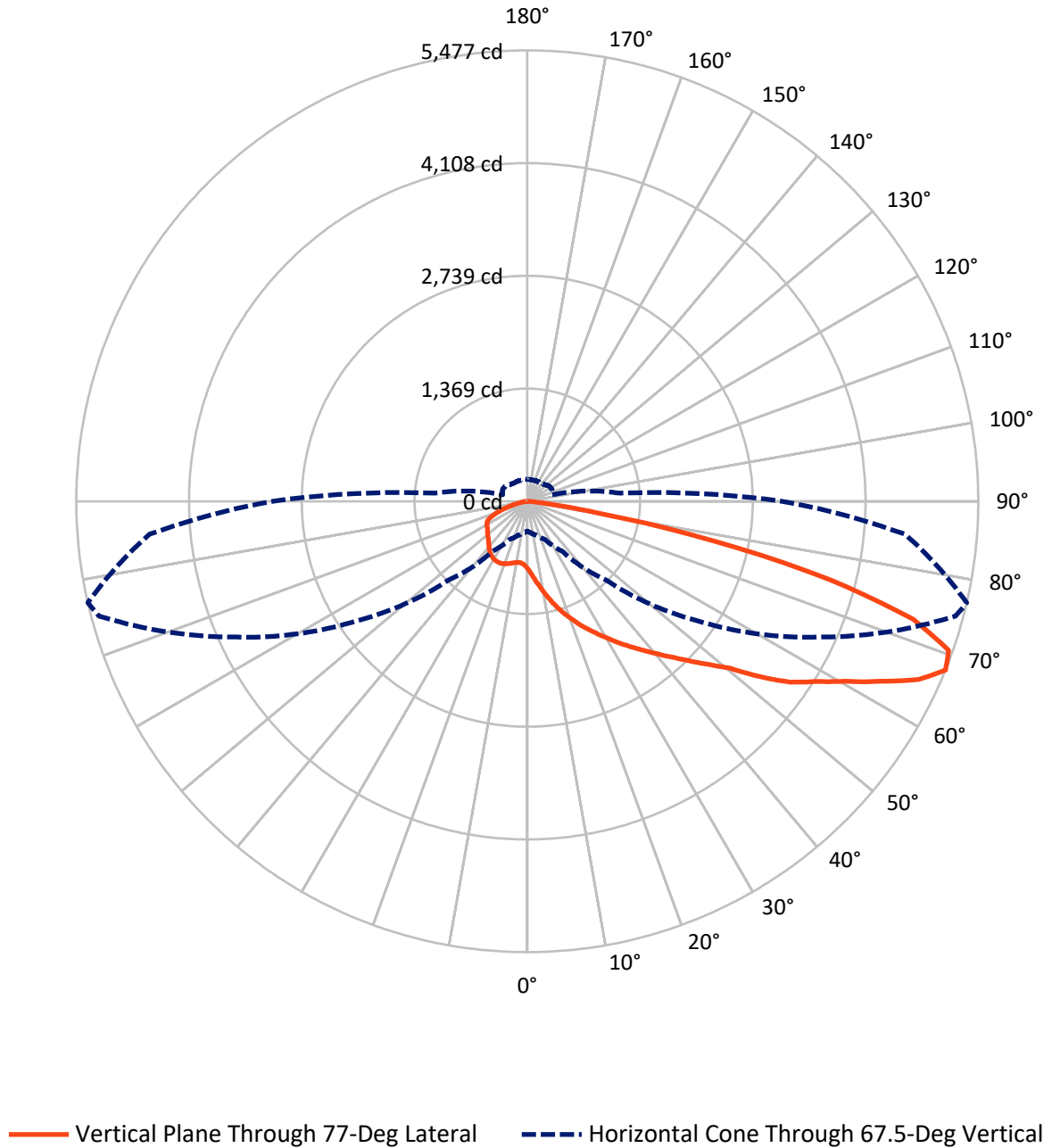
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1320.7	0.0	1320.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	5661.3	0.0	5661.3
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	6982.0	0.0	6982.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	1.3
10°-20°	315.5	4.5
20°-30°	595.6	8.5
30°-40°	959.5	13.7
40°-50°	1312.5	18.8
50°-60°	1480.5	21.2
60°-70°	1381.8	19.8
70°-80°	757.5	10.8
80°-90°	91.4	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°	6982.0	100.0
0°-180°	6982.0	100.0

**Coefficient of Utilization**



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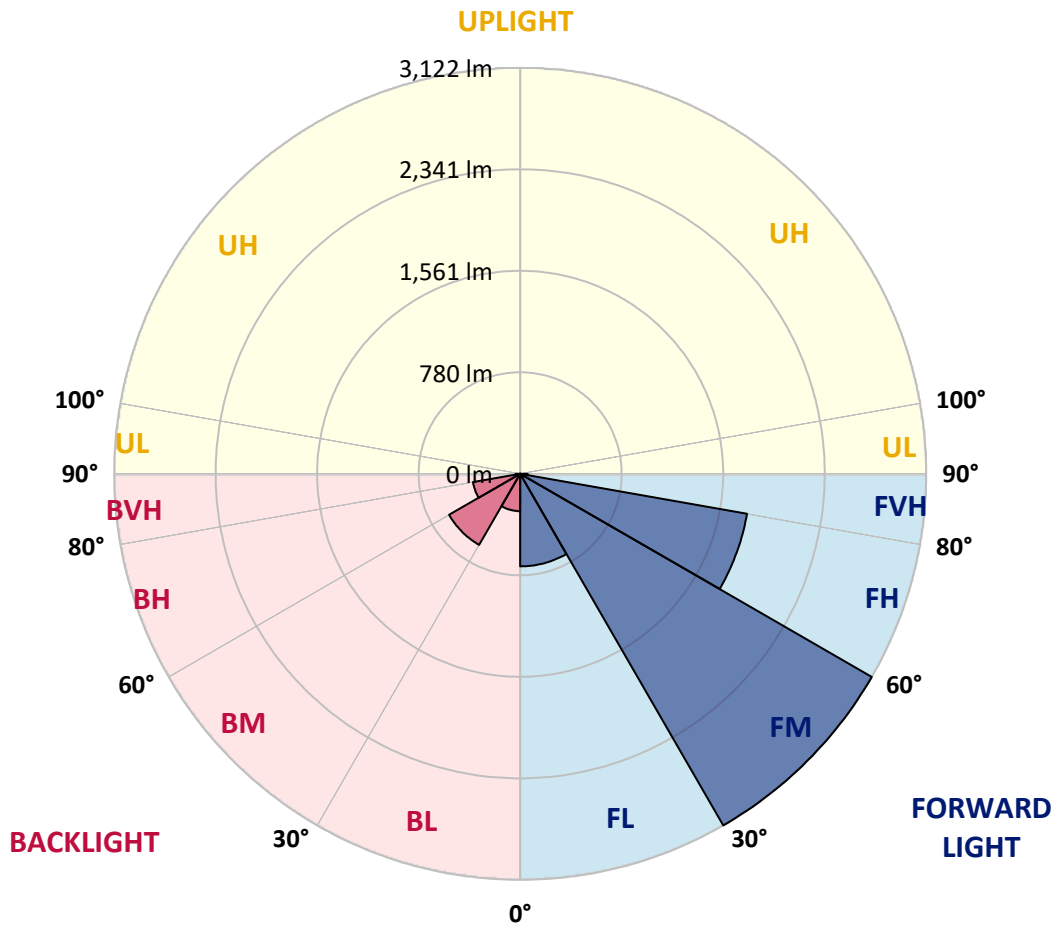
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.7	10.2			
FM (30°-60°)	3121.6	44.7			
FH (60°-80°)	1770.8	25.4			G1/1800
FVH (80°-90°)	57.1	0.8			G1/100
BL (0°-30°)	287.2	4.1	B1/500		
BM (30°-60°)	630.9	9.0	B1/1000		
BH (60°-80°)	368.5	5.3	B1/500		G1/500
BVH (80°-90°)	34.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	819.2	819.2	819.2	819.2	819.2	819.2	819.2	819.2	819.2	819.2
2.5°	1025.7	1032.9	1023.9	1023.9	993.6	977.8	947.5	924.4	883.0	875.8
5°	1212.4	1221.4	1208.8	1203.4	1167.7	1134.9	1084.1	1034.0	960.1	952.6
7.5°	1356.9	1368.5	1357.3	1351.5	1319.8	1283.0	1223.6	1153.7	1049.5	1034.7
10°	1474.8	1476.6	1473.0	1475.1	1450.3	1420.0	1359.1	1277.6	1147.5	1127.4
12.5°	1541.5	1549.8	1557.0	1569.9	1565.6	1546.9	1492.1	1394.8	1251.3	1225.4
15°	1572.8	1587.2	1603.5	1633.4	1657.5	1662.2	1620.4	1520.6	1356.9	1325.6
17.5°	1584.0	1597.7	1623.3	1666.5	1718.4	1753.4	1734.6	1642.7	1461.5	1425.4
20°	1640.6	1644.5	1660.0	1701.1	1757.3	1815.4	1829.4	1760.2	1564.9	1524.2
22.5°	1761.7	1753.7	1758.1	1776.8	1817.2	1873.4	1905.5	1864.0	1671.2	1624.4
25°	1961.7	1938.6	1915.6	1893.9	1914.5	1946.2	1982.6	1967.8	1782.6	1723.1
27.5°	2214.3	2186.2	2135.4	2064.4	2039.5	2050.7	2066.9	2064.1	1885.7	1825.5
30°	2463.0	2430.2	2369.7	2267.0	2201.4	2171.8	2159.6	2151.3	1997.7	1933.6
32.5°	2661.6	2635.7	2576.2	2461.2	2366.1	2315.6	2274.9	2245.3	2114.9	2050.7
35°	2835.3	2811.2	2743.1	2617.6	2514.2	2460.5	2407.2	2344.1	2236.7	2171.8
37.5°	2993.9	2969.8	2876.4	2745.9	2641.8	2604.7	2557.1	2450.0	2358.9	2297.6
40°	3094.1	3088.7	3001.5	2853.7	2745.6	2727.2	2711.3	2572.9	2494.4	2437.4
42.5°	3119.7	3131.6	3062.4	2940.9	2837.8	2823.1	2860.2	2712.1	2646.5	2592.0
45°	3058.1	3092.3	3046.9	2964.3	2903.4	2895.5	2992.1	2864.2	2814.8	2765.0
47.5°	2902.0	2960.0	2941.3	2929.7	2921.1	2955.3	3108.2	3025.6	3005.4	2962.2
50°	2587.0	2696.9	2729.7	2802.5	2886.1	3001.8	3213.8	3201.9	3228.2	3184.6
52.5°	2042.4	2193.8	2384.1	2566.5	2778.7	2986.3	3329.8	3454.9	3565.9	3542.1
55°	1686.0	1754.1	1900.4	2234.9	2570.4	2921.1	3382.1	3659.2	3901.0	3879.8
57.5°	1412.1	1473.0	1563.1	1842.4	2255.4	2773.0	3414.5	3783.9	4130.6	4128.5
60°	1118.3	1182.9	1275.1	1473.0	1887.5	2517.1	3407.3	3925.9	4423.6	4441.7
62.5°	786.8	857.8	960.1	1144.7	1511.5	2185.5	3260.2	4028.6	4768.5	4817.6
65°	517.2	564.0	641.2	800.5	1126.3	1759.1	2979.5	4042.0	5137.6	5220.5
67.5°	362.6	380.6	426.0	512.5	742.4	1349.0	2532.2	3903.9	5383.8	5477.1
70°	282.9	291.9	315.0	349.6	466.4	907.1	1940.4	3545.0	5331.1	5428.5
72.5°	244.4	253.0	261.7	266.0	312.8	560.1	1314.4	2964.0	4835.6	4901.5
75°	221.7	223.8	231.0	229.6	238.6	363.3	758.7	2159.6	3815.3	3792.6
77.5°	186.3	189.2	201.1	199.3	211.9	248.3	393.9	1393.7	2473.5	2319.2
80°	157.9	159.3	172.3	170.1	184.2	179.8	201.1	710.4	1049.1	888.8
82.5°	54.8	67.8	131.5	135.5	140.6	108.8	116.1	289.8	320.4	245.4
85°	26.7	28.5	67.0	95.1	94.8	54.8	56.6	103.4	100.9	79.3
87.5°	4.3	5.4	7.9	37.1	29.6	14.4	19.5	20.2	20.9	18.0
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°
819.2	0°	819.2	819.2	819.2	819.2	819.2	819.2	819.2	819.2	819.2	819.2
848.4	2.5°	828.2	810.2	772.4	737.4	710.0	683.7	668.9	656.3	649.1	647.7
888.0	5°	850.6	813.4	744.6	686.6	648.7	620.6	605.8	596.5	591.8	588.9
941.4	7.5°	882.6	828.2	730.2	664.2	624.6	604.4	596.8	595.4	595.0	595.4
1005.9	10°	927.0	852.4	728.7	658.8	625.7	614.5	614.1	614.5	615.9	616.3
1076.2	12.5°	974.9	877.2	734.5	663.5	639.4	633.2	632.2	631.8	632.9	633.6
1147.2	15°	1027.2	910.0	744.2	673.6	654.5	648.0	646.9	644.8	644.4	644.0
1221.8	17.5°	1080.9	942.5	755.1	684.4	664.2	655.2	651.3	646.2	642.2	641.2
1298.9	20°	1135.3	974.5	762.6	689.8	665.0	652.3	644.4	635.8	628.9	624.9
1376.8	22.5°	1193.3	1008.1	767.3	688.4	658.5	641.2	626.7	616.7	606.2	599.4
1455.3	25°	1249.9	1037.3	766.9	680.8	645.8	623.9	605.5	592.5	578.1	570.9
1536.4	27.5°	1304.3	1063.6	757.9	667.5	627.8	603.3	581.3	565.8	551.8	544.9
1618.2	30°	1360.5	1085.5	743.9	648.0	606.6	579.5	555.4	542.1	529.4	523.0
1704.7	32.5°	1416.4	1105.7	724.1	623.9	582.1	556.1	532.3	520.1	512.5	512.5
1797.7	35°	1475.5	1119.8	697.7	595.8	556.1	531.2	512.5	505.3	504.6	500.2
1896.1	37.5°	1537.9	1128.8	665.7	566.9	530.5	507.1	501.3	492.7	485.5	476.1
2004.2	40°	1603.5	1137.8	627.1	537.0	503.5	490.5	488.0	476.5	455.9	432.8
2126.8	42.5°	1683.1	1143.9	587.1	507.1	475.0	470.7	474.3	454.5	421.7	404.4
2274.5	45°	1775.4	1154.0	550.3	477.5	445.8	445.8	461.0	435.0	408.0	397.2
2443.2	47.5°	1895.0	1177.5	516.1	445.1	418.8	426.0	431.4	411.6	396.4	383.1
2648.6	50°	2068.0	1233.7	480.8	412.3	398.2	412.7	405.1	393.6	375.9	365.1
2975.2	52.5°	2282.8	1266.8	449.4	382.8	380.6	395.0	384.2	373.4	360.0	345.6
3222.8	55°	2429.1	1273.0	423.1	361.1	368.7	367.3	363.3	353.6	346.4	327.2
3467.1	57.5°	2592.8	1285.2	401.5	348.2	361.1	345.3	343.8	335.5	326.2	313.2
3765.2	60°	2788.5	1304.3	382.8	343.1	354.6	330.9	323.6	320.4	311.0	304.5
4123.8	62.5°	3001.8	1321.6	363.7	343.8	347.1	316.8	306.0	304.9	299.1	297.0
4460.4	65°	3147.4	1274.4	339.9	343.1	335.2	302.4	288.7	288.3	283.6	282.9
4606.4	67.5°	3096.6	1124.8	307.8	333.0	322.9	288.0	272.8	271.4	265.3	265.6
4453.9	70°	2842.2	911.5	263.5	308.1	307.8	275.0	256.2	251.6	243.3	244.7
3872.6	72.5°	2365.0	675.4	204.0	266.7	283.6	263.1	237.1	229.6	219.1	220.6
2858.7	75°	1708.0	459.2	148.5	202.9	246.9	249.0	218.4	205.4	192.8	195.0
1591.2	77.5°	874.0	260.2	109.2	139.8	193.9	226.3	201.5	184.2	181.3	201.5
458.8	80°	285.1	130.5	75.7	98.0	127.2	185.2	176.6	156.8	156.1	160.7
96.2	82.5°	85.1	55.1	48.7	64.5	70.3	142.0	152.5	118.6	102.0	107.4
32.1	85°	29.2	26.7	27.8	32.1	33.5	83.3	106.7	78.6	74.2	81.8
7.2	87.5°	6.8	9.4	7.9	7.2	7.2	20.2	41.4	32.8	45.4	30.3
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>
819.2
647.7
588.5
596.5
616.7
634.0
643.7
642.2
626.4
599.7
570.9
544.6
522.6
512.9
499.2
474.7
429.6
404.7
399.0
382.8
364.0
342.7
327.6
308.9
306.3
297.0
282.6
265.6
246.2
220.2
195.7
198.6
138.0
111.0
80.7
29.2
0.0

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