

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: P949278

Luminaire Tested: **GALN-SB4A-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

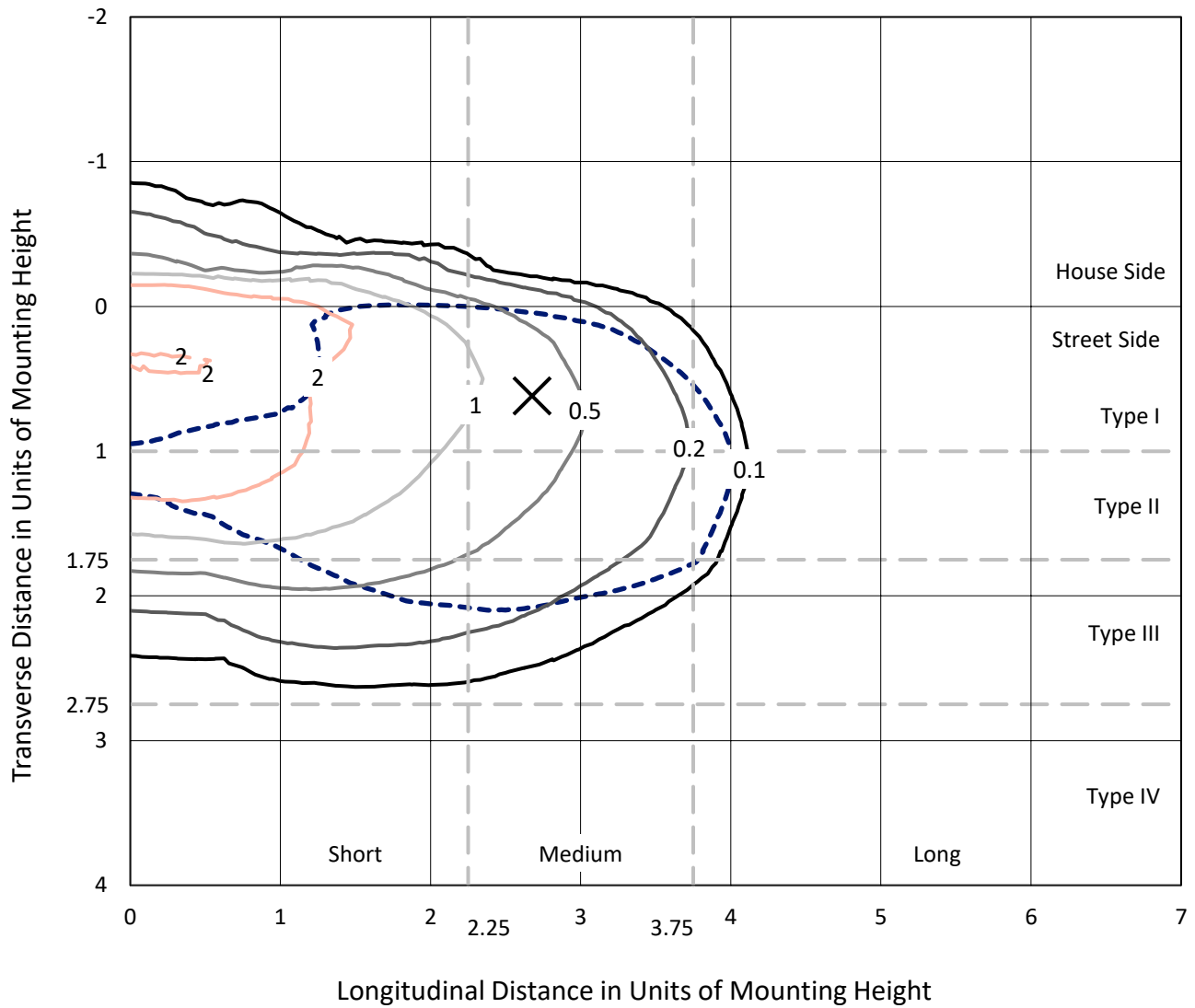
Lumens per Lamp: N/A  
Luminaire Lumens: 13015 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

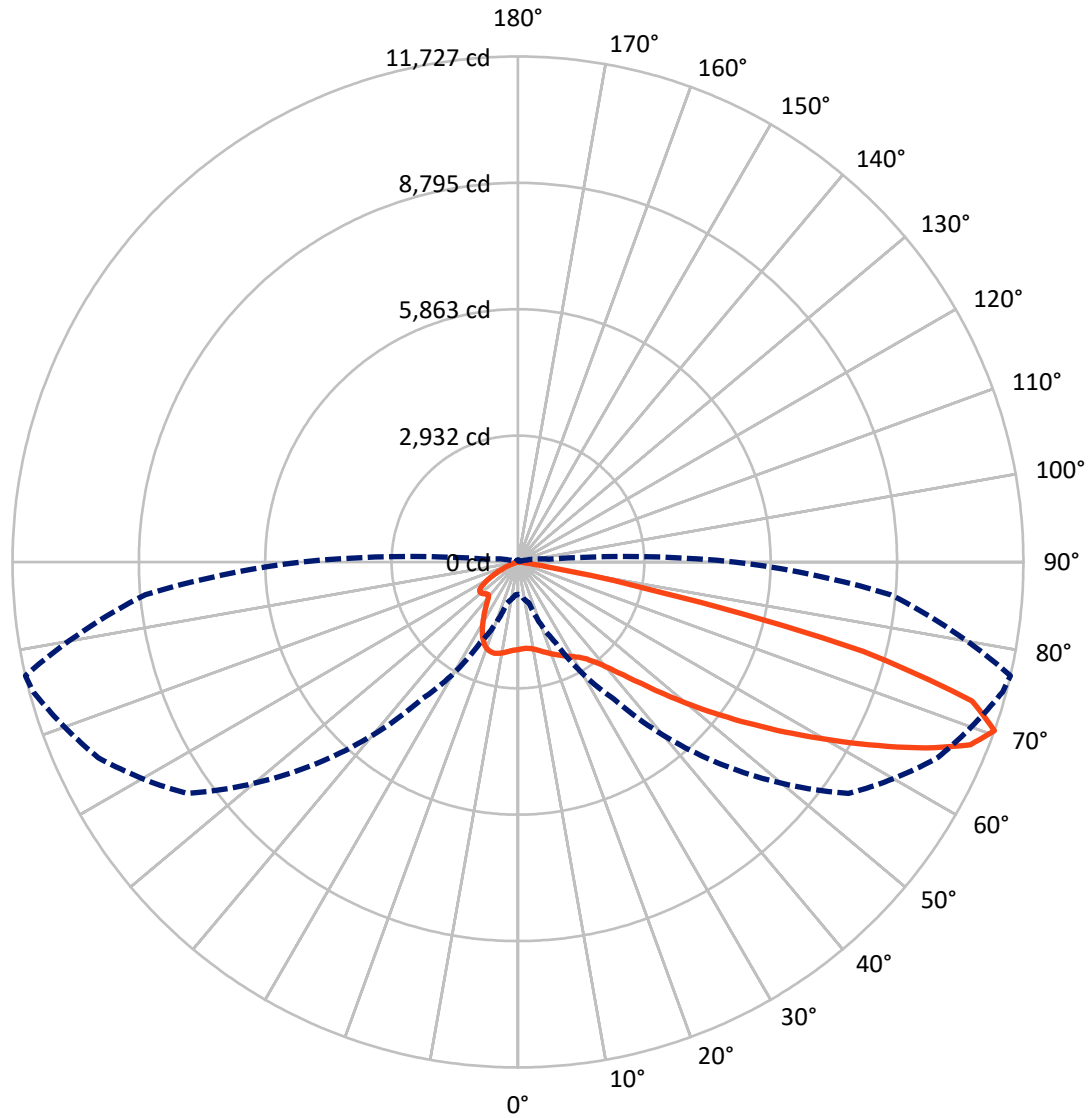
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1372.0	0.0	1372.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	11643.0	0.0	11643.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	13015.0	0.0	13015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	1.3
10°-20°	415.3	3.2
20°-30°	642.4	4.9
30°-40°	1165.7	9.0
40°-50°	2200.4	16.9
50°-60°	3179.4	24.4
60°-70°	3384.4	26.0
70°-80°	1793.5	13.8
80°-90°	58.9	0.5
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°	13015.0	100.0
0°-180°	13015.0	100.0

**Coefficient of Utilization**



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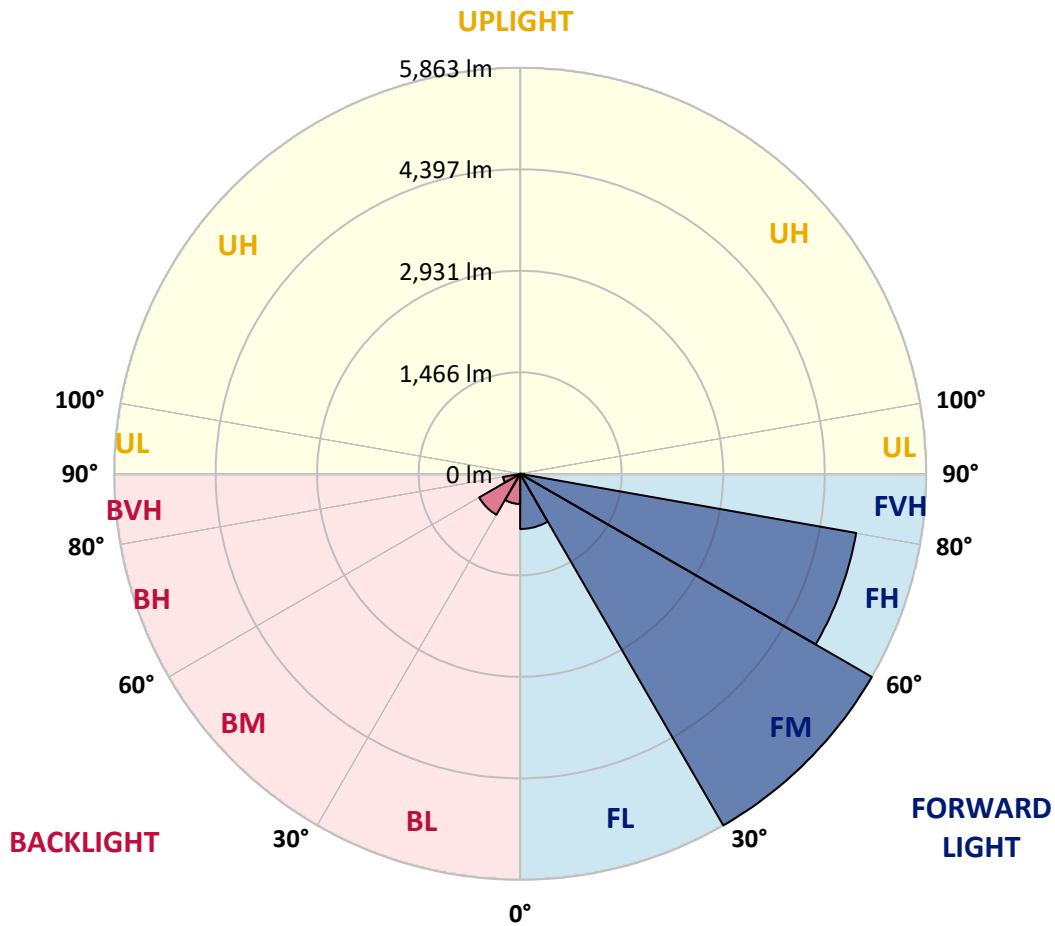
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.8	6.1			
FM (30°-60°)	5862.5	45.0			
FH (60°-80°)	4926.4	37.9			G2/5000
FVH (80°-90°)	57.3	0.4			G1/100
BL (0°-30°)	435.9	3.3	B1/500		
BM (30°-60°)	683.0	5.2	B1/1000		
BH (60°-80°)	251.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1
2.5°	1906.0	1923.3	1920.8	1932.3	1936.4	1952.8	1969.3	1991.5	2016.1	2015.3
5°	1798.3	1815.6	1819.7	1835.3	1855.0	1880.5	1914.2	1958.6	2004.6	2012.0
7.5°	1670.9	1689.0	1699.7	1730.9	1767.1	1819.7	1874.8	1939.7	2016.1	2026.8
10°	1543.5	1560.0	1573.9	1618.3	1675.9	1753.9	1843.5	1937.2	2040.0	2055.6
12.5°	1464.6	1480.3	1495.9	1534.5	1606.0	1701.3	1823.0	1948.7	2079.4	2101.6
15°	1436.7	1450.7	1463.0	1497.5	1564.1	1672.6	1818.9	1972.6	2129.6	2159.1
17.5°	1440.8	1448.2	1456.4	1482.7	1547.6	1659.4	1826.3	2013.7	2188.7	2215.0
20°	1464.6	1468.7	1469.6	1487.6	1545.2	1657.8	1841.1	2053.1	2244.6	2280.0
22.5°	1495.0	1496.7	1495.0	1507.4	1560.8	1670.1	1860.8	2100.8	2307.1	2340.0
25°	1637.2	1606.0	1566.6	1542.7	1587.1	1693.9	1890.4	2164.9	2375.3	2407.4
27.5°	2078.6	1989.0	1847.6	1689.0	1641.3	1728.5	1931.5	2229.8	2444.3	2473.1
30°	2795.3	2677.8	2437.8	2080.2	1815.6	1800.8	1984.9	2294.8	2517.5	2548.7
32.5°	3513.6	3484.9	3207.9	2713.1	2207.6	1961.9	2073.7	2382.7	2614.5	2639.1
35°	4240.2	4181.9	3955.0	3466.0	2811.7	2289.8	2221.6	2497.8	2741.9	2769.8
37.5°	4796.6	4761.3	4620.7	4218.0	3528.4	2796.1	2474.8	2676.1	2926.8	2958.0
40°	5288.1	5271.7	5224.0	4958.6	4329.8	3458.6	2868.4	2952.3	3183.2	3220.2
42.5°	5674.4	5713.1	5740.2	5666.2	5155.8	4214.7	3397.8	3340.2	3540.8	3578.6
45°	6069.8	6082.9	6192.2	6299.1	5976.1	5005.4	3994.5	3794.7	3985.4	4032.3
47.5°	6323.7	6376.3	6568.7	6756.9	6665.6	5789.5	4635.5	4331.4	4500.8	4588.7
50°	6342.6	6442.1	6706.7	7034.7	7167.8	6535.8	5332.5	4942.9	5122.9	5219.9
52.5°	6027.9	6182.4	6592.5	7072.5	7439.1	7167.8	6053.3	5554.4	5785.4	5912.0
55°	4621.6	4823.8	6162.6	6867.0	7449.7	7647.0	6755.2	6191.4	6523.5	6666.5
57.5°	4026.5	4128.4	4845.1	6510.3	7251.7	7840.2	7389.7	6798.0	7326.5	7504.0
60°	3350.1	3484.1	4063.5	5926.8	6982.9	7859.1	7950.3	7580.4	8196.9	8396.6
62.5°	2276.7	2422.2	2998.3	4924.0	6615.5	7850.0	8409.7	8385.9	9164.2	9378.8
65°	1410.4	1501.6	1881.3	4020.8	6101.8	7859.9	8890.5	9364.0	10185.0	10402.8
67.5°	1114.5	1156.4	1354.5	3087.1	5216.6	7638.0	9370.5	10283.7	11145.9	11318.5
70°	748.8	774.2	985.5	2069.6	3881.0	6613.9	9361.5	10745.6	11640.6	11726.9
72.5°	394.5	414.2	576.2	958.3	2344.1	4701.3	7891.1	10193.3	11148.3	11018.5
75°	197.3	230.1	387.9	486.6	1001.1	2621.9	4900.2	8036.6	8774.7	8271.7
77.5°	149.6	180.8	320.5	320.5	348.5	882.7	2075.3	4383.2	4042.9	3366.5
80°	95.3	123.3	280.3	242.5	145.5	224.4	540.8	1227.9	858.9	653.4
82.5°	55.9	80.5	233.4	160.3	81.4	83.0	152.9	261.4	222.7	173.4
85°	22.2	52.6	160.3	63.3	32.1	20.5	46.0	55.9	46.0	34.5
87.5°	0.0	12.3	27.9	0.0	2.5	1.6	3.3	4.1	4.1	3.3
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°
2030.1	0°	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1	2030.1
2031.7	2.5°	2039.1	2040.8	2045.7	2046.5	2035.0	2020.2	2014.5	2012.0	2002.2	2001.3
2044.9	5°	2063.8	2071.2	2063.8	2042.4	1991.5	1920.0	1865.7	1821.3	1781.1	1768.7
2090.1	7.5°	2113.1	2120.5	2098.3	2014.5	1886.3	1744.1	1615.9	1525.5	1444.1	1413.7
2145.2	10°	2183.8	2193.7	2123.8	1954.5	1727.6	1499.2	1282.2	1129.3	1010.1	961.6
2220.0	12.5°	2272.6	2276.7	2137.8	1863.3	1521.3	1195.0	887.7	724.1	618.1	578.6
2310.4	15°	2370.4	2364.6	2139.4	1739.2	1240.3	844.9	579.4	475.9	433.1	420.0
2400.8	17.5°	2473.1	2449.3	2106.5	1560.0	932.0	577.8	429.9	405.2	397.8	394.5
2490.4	20°	2574.2	2520.8	2046.5	1325.7	669.0	431.5	390.4	383.0	378.9	377.3
2580.8	22.5°	2666.3	2575.0	1943.8	1053.7	485.7	381.4	369.0	362.5	355.1	351.8
2668.7	25°	2755.8	2606.3	1799.1	799.7	388.8	356.7	346.8	334.5	324.7	320.5
2763.2	27.5°	2843.0	2626.0	1618.3	591.8	346.8	333.7	315.6	298.4	291.0	289.3
2864.3	30°	2935.8	2632.6	1412.9	441.4	321.4	304.9	278.6	258.9	254.8	255.6
3000.8	32.5°	3049.3	2642.4	1205.7	361.6	300.0	270.4	239.2	218.6	215.3	218.6
3199.7	35°	3184.9	2662.1	1006.0	332.9	281.1	235.1	201.4	184.1	180.8	183.3
3454.5	37.5°	3369.0	2694.2	819.4	327.1	265.5	205.5	169.3	155.3	155.3	156.2
3766.8	40°	3613.9	2779.7	652.6	323.0	257.3	183.3	143.0	137.3	139.7	141.4
4164.6	42.5°	3912.3	2961.3	540.0	318.1	248.2	173.4	129.9	127.4	131.5	133.1
4641.3	45°	4246.8	3191.5	500.5	309.9	240.0	180.0	124.1	120.8	125.8	126.6
5175.5	47.5°	4592.8	3416.7	495.6	300.8	231.8	189.9	122.5	115.1	120.8	121.6
5745.9	50°	4942.9	3563.8	500.5	286.8	218.6	189.9	123.3	109.3	114.2	116.7
6337.7	52.5°	5295.5	3631.2	497.3	256.4	195.6	178.4	123.3	104.4	109.3	111.0
6977.2	55°	5637.4	3618.0	447.1	211.2	166.0	157.8	120.0	100.3	103.6	104.4
7581.3	57.5°	5907.9	3434.7	354.2	164.4	134.8	131.5	109.3	95.3	97.8	97.0
8135.2	60°	6049.2	3032.0	253.1	126.6	106.0	103.6	96.2	88.8	90.4	86.3
8604.5	62.5°	6050.9	2499.4	169.3	100.3	84.7	82.2	82.2	79.7	78.1	69.9
8967.8	65°	5921.8	1908.5	112.6	79.7	68.2	64.1	69.0	68.2	62.5	51.0
9078.8	67.5°	5629.2	1250.9	85.5	62.5	52.6	50.1	55.1	57.5	53.4	42.7
8674.4	70°	5027.6	728.2	70.7	48.5	39.5	37.0	44.4	49.3	44.4	34.5
7414.4	72.5°	4176.1	392.9	57.5	36.2	27.1	24.7	35.3	40.3	35.3	25.5
4757.2	75°	2709.8	210.4	44.4	23.8	14.0	15.6	26.3	29.6	24.7	16.4
1396.4	77.5°	909.8	92.9	27.9	11.5	6.6	6.6	15.6	18.1	11.5	5.8
254.0	80°	203.0	38.6	11.5	4.9	2.5	2.5	3.3	3.3	1.6	0.0
78.1	82.5°	66.6	15.6	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
19.7	85°	25.5	5.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.6	87.5°	9.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
2030.1
2003.0
1761.3
1401.3
941.1
566.3
420.0
393.7
375.6
351.0
318.9
287.7
255.6
217.8
182.5
155.3
141.4
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