

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: P949318

Luminaire Tested: **GALN-SB4A-835-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-835-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

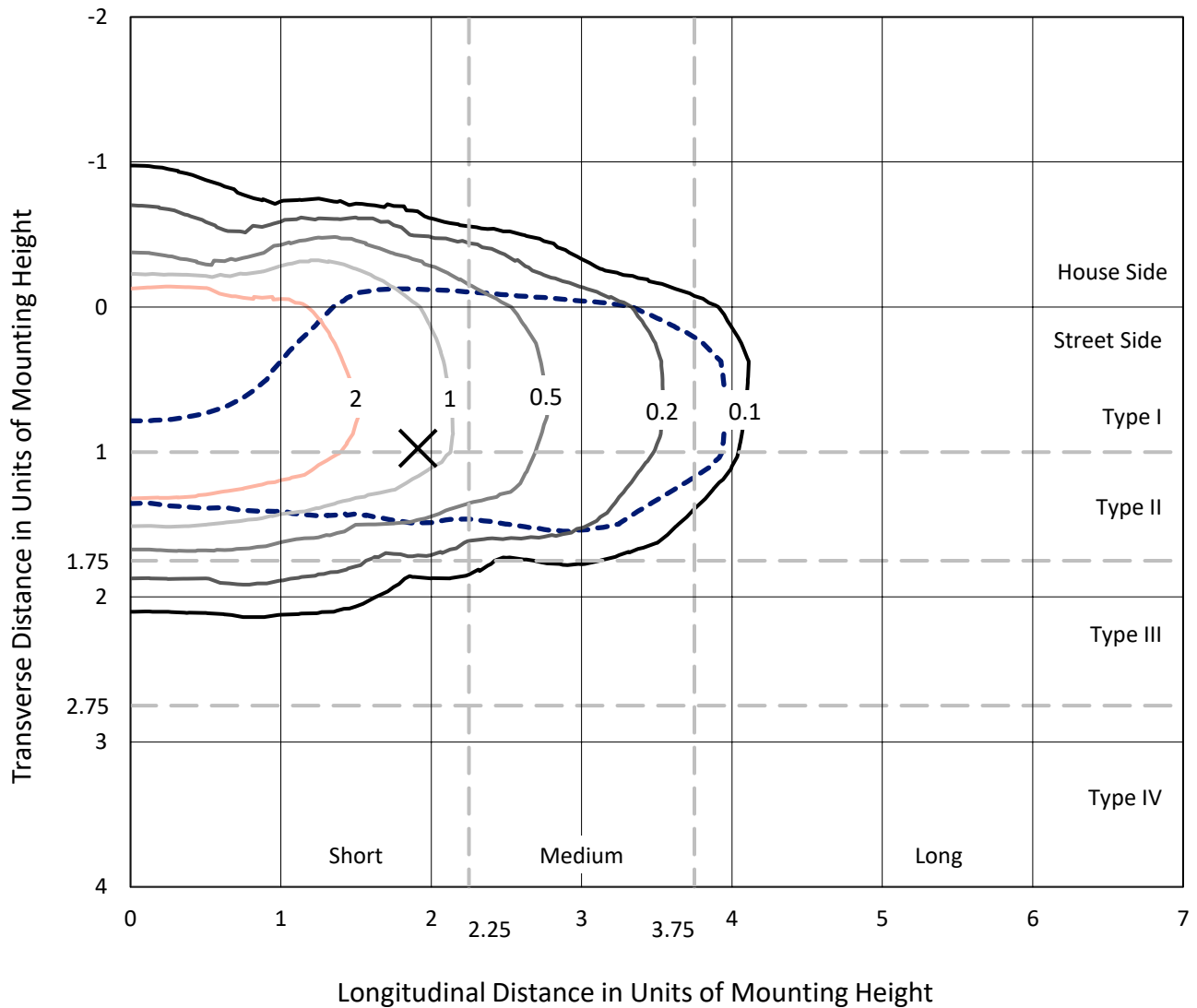
Lumens per Lamp: N/A  
Luminaire Lumens: 12744 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

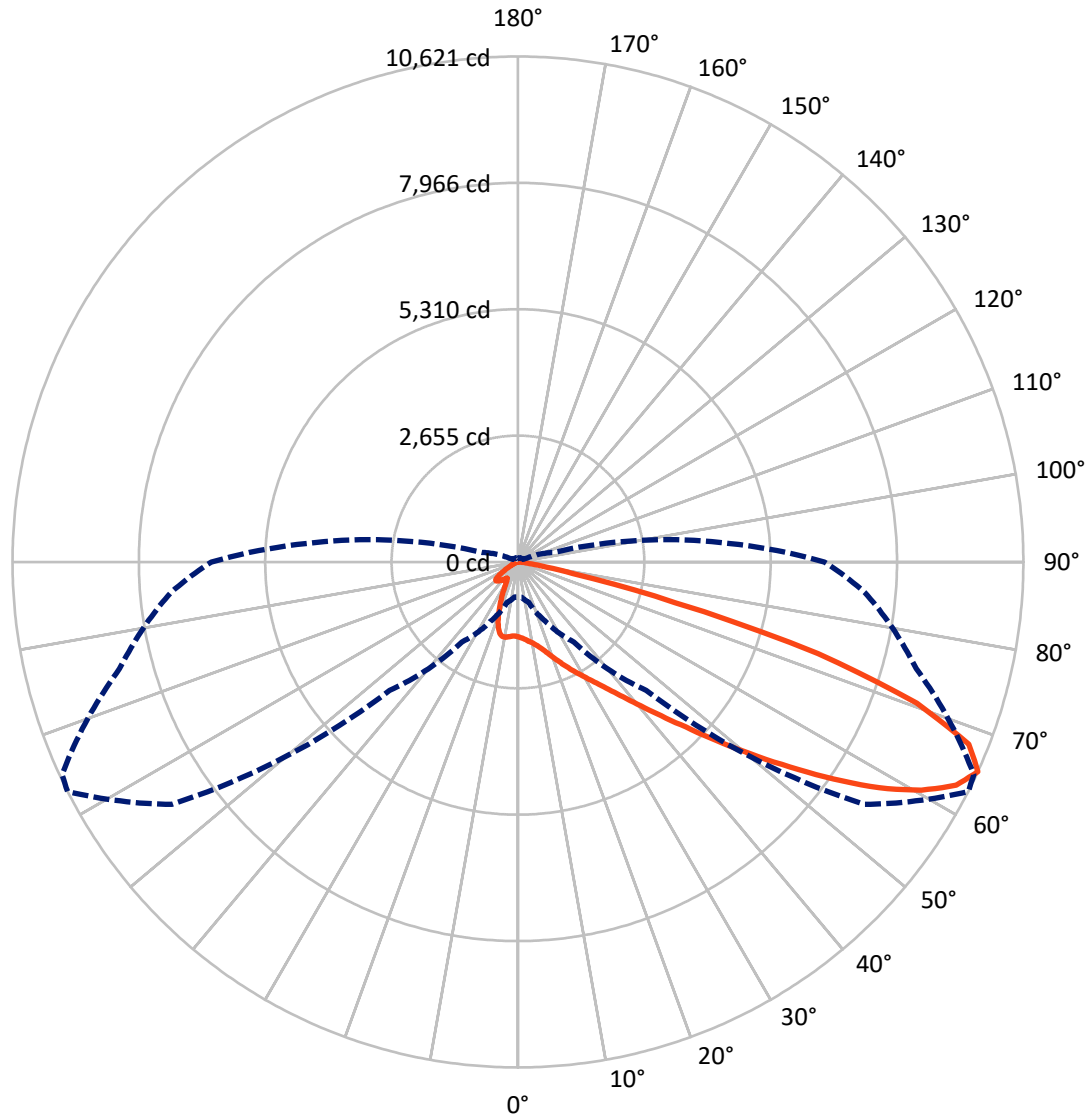
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1873.3	0.0	1873.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	10870.7	0.0	10870.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	12744.0	0.0	12744.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.2	1.2
10°-20°	411.2	3.2
20°-30°	716.0	5.6
30°-40°	1290.5	10.1
40°-50°	2559.4	20.1
50°-60°	3486.3	27.4
60°-70°	2782.7	21.8
70°-80°	1259.3	9.9
80°-90°	90.5	0.7
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°	12744.0	100.0
0°-180°	12744.0	100.0

**Coefficient of Utilization**



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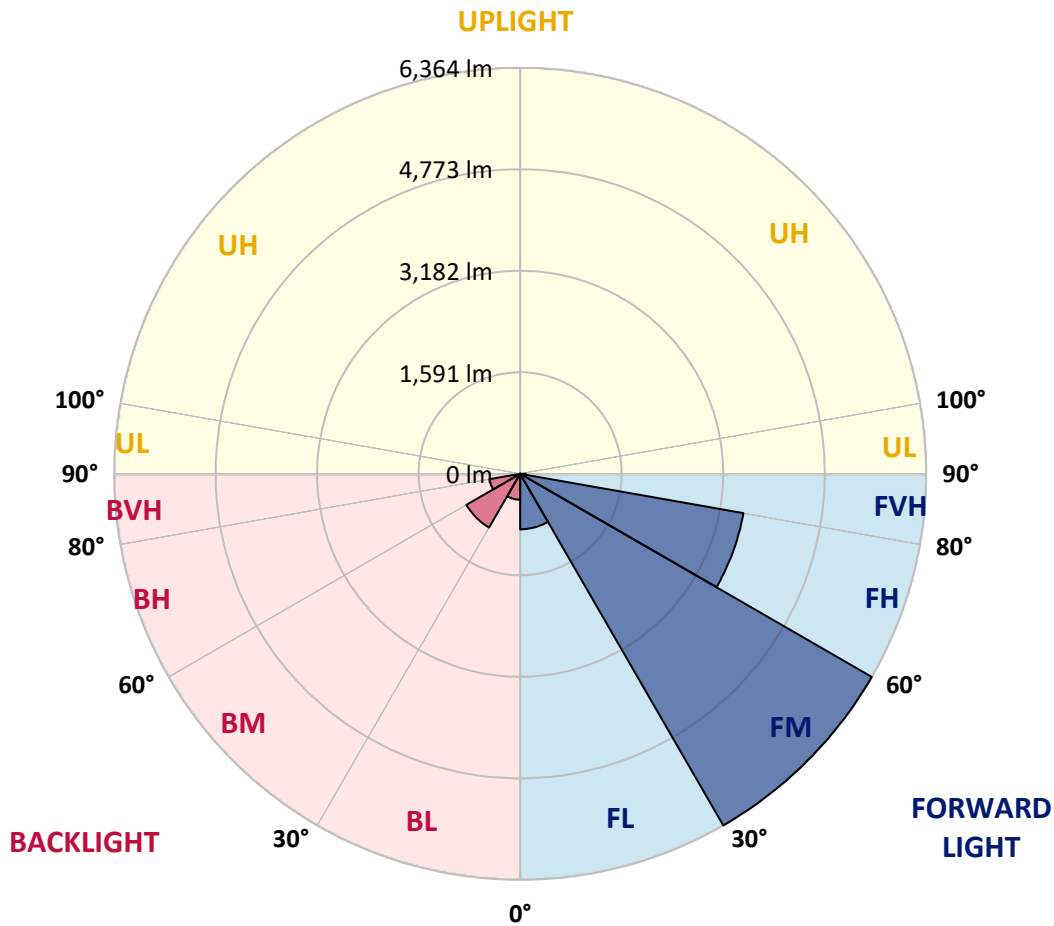
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.9	6.8			
FM (30°-60°)	6364.0	49.9			
FH (60°-80°)	3553.0	27.9			G2/5000
FVH (80°-90°)	83.8	0.7			G1/100
BL (0°-30°)	405.4	3.2	B1/500		
BM (30°-60°)	972.1	7.6	B1/1000		
BH (60°-80°)	489.0	3.8	B1/500		G1/500
BVH (80°-90°)	6.7	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1609.7	1605.3	1611.4	1608.8	1607.0	1603.5	1601.8	1600.0	1596.5	1593.9
5°	1614.1	1611.4	1617.6	1622.8	1628.1	1633.3	1636.0	1639.5	1636.0	1629.0
7.5°	1577.2	1575.5	1588.6	1604.4	1628.1	1648.2	1670.2	1682.4	1683.3	1680.7
10°	1574.6	1570.2	1583.4	1602.7	1633.3	1669.3	1707.9	1734.2	1737.7	1749.1
12.5°	1615.8	1611.4	1629.8	1650.9	1682.4	1720.1	1767.5	1804.3	1809.6	1825.3
15°	1685.1	1678.9	1700.0	1727.2	1767.5	1810.4	1860.4	1893.7	1898.1	1917.4
17.5°	1765.7	1759.6	1784.1	1813.1	1856.9	1915.7	1973.5	2010.3	2015.6	2027.9
20°	1869.2	1861.3	1880.6	1906.9	1953.4	2023.5	2092.8	2145.4	2144.5	2144.5
22.5°	1989.3	1977.0	1993.7	2014.7	2058.6	2143.6	2235.7	2297.9	2297.9	2273.4
25°	2118.2	2105.9	2124.3	2143.6	2182.2	2278.6	2386.5	2463.6	2467.1	2425.0
27.5°	2279.5	2263.7	2277.7	2300.5	2323.3	2421.5	2549.5	2639.0	2640.7	2575.8
30°	2589.9	2545.1	2501.3	2476.8	2487.3	2584.6	2721.4	2820.4	2829.2	2739.8
32.5°	3158.0	3149.2	2994.9	2793.3	2688.0	2759.9	2913.4	3032.6	3037.9	2923.0
35°	4040.8	4030.3	3782.2	3398.2	3055.4	2994.9	3146.6	3287.7	3284.2	3154.5
37.5°	5094.7	5085.0	4758.0	4244.2	3689.3	3350.0	3447.3	3595.5	3617.4	3447.3
40°	5995.1	5959.1	5752.2	5256.9	4530.9	3939.1	3875.1	3973.3	3996.1	3794.5
42.5°	6677.2	6646.5	6541.3	6231.8	5549.7	4810.6	4379.3	4417.0	4442.4	4200.4
45°	7030.5	7023.5	7065.6	7036.6	6587.7	5880.2	5099.9	4943.0	4952.6	4650.2
47.5°	7080.5	7077.0	7269.0	7540.7	7480.2	7086.6	6024.9	5598.8	5564.6	5157.8
50°	6785.9	6778.9	7147.1	7656.5	8076.4	8100.1	7075.2	6337.9	6262.5	5683.0
52.5°	5845.1	5843.4	6448.3	7296.1	8286.0	8987.3	8113.2	7149.7	7023.5	6238.8
55°	4497.6	4530.1	5223.5	6225.6	7903.7	9414.3	9045.2	8051.0	7857.2	6798.2
57.5°	3186.0	3233.4	3919.0	4811.5	6718.4	9161.8	9675.6	8954.0	8745.4	7355.7
60°	1711.4	1753.5	2439.9	3505.2	4998.2	8220.2	10007.9	9737.8	9540.6	7885.3
62.5°	1019.6	1033.7	1317.7	2262.8	3380.7	6280.0	9866.7	10334.9	10172.7	8329.8
65°	732.1	734.7	877.6	1381.7	2052.4	3815.5	8876.9	10620.7	10570.7	8664.7
67.5°	616.3	614.6	674.2	917.9	1398.4	1911.3	6803.4	10216.5	10428.7	8876.9
70°	528.7	531.3	601.4	672.5	1051.2	1081.9	3382.4	8895.3	9347.7	8933.0
72.5°	393.7	402.4	467.3	612.8	793.4	744.3	1167.8	6595.6	7413.6	8416.6
75°	277.9	282.3	328.8	515.5	591.8	541.8	596.2	3409.6	4458.2	6452.7
77.5°	213.9	221.8	249.0	360.3	583.0	380.5	364.7	1180.1	1813.1	3897.9
80°	115.7	129.8	179.7	260.4	409.4	269.2	180.6	469.9	614.6	1822.7
82.5°	59.6	66.6	125.4	187.6	233.2	235.0	89.4	195.5	253.4	562.9
85°	23.7	28.9	84.2	103.5	120.1	115.7	40.3	78.9	91.2	156.1
87.5°	5.3	8.8	30.7	23.7	22.8	24.5	9.6	18.4	17.5	18.4
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°
1572.9	0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
1583.4	2.5°	1582.5	1579.0	1569.3	1558.8	1546.5	1539.5	1535.2	1534.3	1528.1	1523.8
1618.4	5°	1608.8	1605.3	1586.9	1565.0	1541.3	1522.9	1505.3	1489.6	1466.8	1462.4
1669.3	7.5°	1661.4	1651.8	1621.9	1592.1	1547.4	1493.9	1429.1	1354.5	1287.9	1267.7
1736.8	10°	1726.3	1713.1	1675.4	1622.8	1523.8	1378.2	1221.3	1075.7	960.0	927.6
1816.6	12.5°	1799.9	1788.5	1738.6	1641.2	1424.7	1160.8	920.6	740.0	627.7	599.7
1901.6	15°	1887.6	1870.9	1801.7	1613.2	1247.6	882.0	632.1	525.2	484.8	479.6
1998.9	17.5°	1980.5	1953.4	1857.8	1512.4	1009.1	626.9	488.3	457.7	440.1	434.9
2097.1	20°	2065.6	2030.5	1891.1	1359.8	754.0	488.3	437.5	417.3	401.5	395.4
2195.3	22.5°	2150.6	2100.6	1891.1	1152.0	565.5	433.1	401.5	383.1	364.7	356.8
2300.5	25°	2239.2	2172.5	1857.8	920.6	455.0	397.2	367.3	347.2	331.4	321.8
2400.5	27.5°	2325.1	2233.0	1781.5	701.4	405.0	365.6	335.8	316.5	301.6	294.6
2509.2	30°	2406.6	2292.6	1674.6	532.2	372.6	334.9	306.9	290.2	275.3	268.3
2650.3	32.5°	2517.1	2368.0	1560.6	436.6	344.6	306.0	280.6	264.8	251.6	246.4
2833.6	35°	2670.5	2479.4	1462.4	428.7	320.9	282.3	256.9	242.0	228.8	224.4
3070.3	37.5°	2887.9	2659.1	1410.7	481.3	301.6	261.3	237.6	221.8	209.5	206.0
3371.0	40°	3156.2	2902.8	1438.7	533.9	288.4	242.9	220.1	204.3	193.8	189.4
3716.5	42.5°	3474.5	3203.6	1593.9	574.3	279.7	227.1	203.4	185.9	178.9	177.1
4108.3	45°	3840.1	3534.1	1831.5	617.2	265.6	212.2	186.7	173.6	168.3	167.5
4534.4	47.5°	4255.6	3897.1	2106.8	670.7	251.6	198.1	173.6	164.8	160.4	158.7
4978.9	50°	4667.7	4262.7	2390.0	700.5	240.2	185.0	163.1	156.1	152.6	151.7
5448.9	52.5°	5099.1	4638.8	2618.8	672.5	230.6	174.5	154.3	149.0	145.5	144.7
5882.0	55°	5510.2	4943.0	2658.2	570.8	211.3	163.9	144.7	142.0	137.6	137.6
6321.2	57.5°	5864.4	5095.5	2379.4	419.1	192.0	148.2	135.0	132.4	128.9	128.0
6717.5	60°	6189.7	5051.7	1836.7	282.3	171.0	132.4	122.7	121.0	117.5	113.1
7062.0	62.5°	6372.9	4858.8	1256.4	184.1	149.9	115.7	108.7	107.8	99.9	91.2
7317.2	65°	6442.2	4462.5	783.8	134.1	125.4	99.1	93.8	92.1	80.7	71.0
7461.8	67.5°	6381.7	3810.3	395.4	106.1	99.1	82.4	77.2	77.2	69.3	60.5
7453.1	70°	6139.7	2856.4	166.6	85.0	76.3	63.1	63.1	66.6	58.7	49.1
7066.4	72.5°	5614.6	1921.8	88.5	64.9	57.0	44.7	51.7	54.4	46.5	36.8
5783.8	75°	4463.4	1172.2	61.4	48.2	35.9	31.6	39.5	41.2	31.6	24.5
3965.4	77.5°	3052.8	673.3	41.2	30.7	22.8	18.4	27.2	25.4	16.7	11.4
1529.0	80°	1340.5	280.6	23.7	14.0	8.8	7.0	9.6	7.0	5.3	3.5
209.5	82.5°	156.9	65.8	8.8	5.3	3.5	1.8	0.9	0.0	0.0	0.0
64.0	85°	32.4	7.9	4.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0
11.4	87.5°	6.1	1.8	0.9	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

<u>180°</u>
1572.9
1528.1
1460.6
1258.1
915.3
591.8
474.3
432.2
391.9
352.4
318.3
294.6
269.2
246.4
224.4
205.2
188.5
177.1
166.6
158.7
151.7
144.7
136.8
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