

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: P947808

Luminaire Tested: **GALN-SB3A-750-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947808  
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-SB3A-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

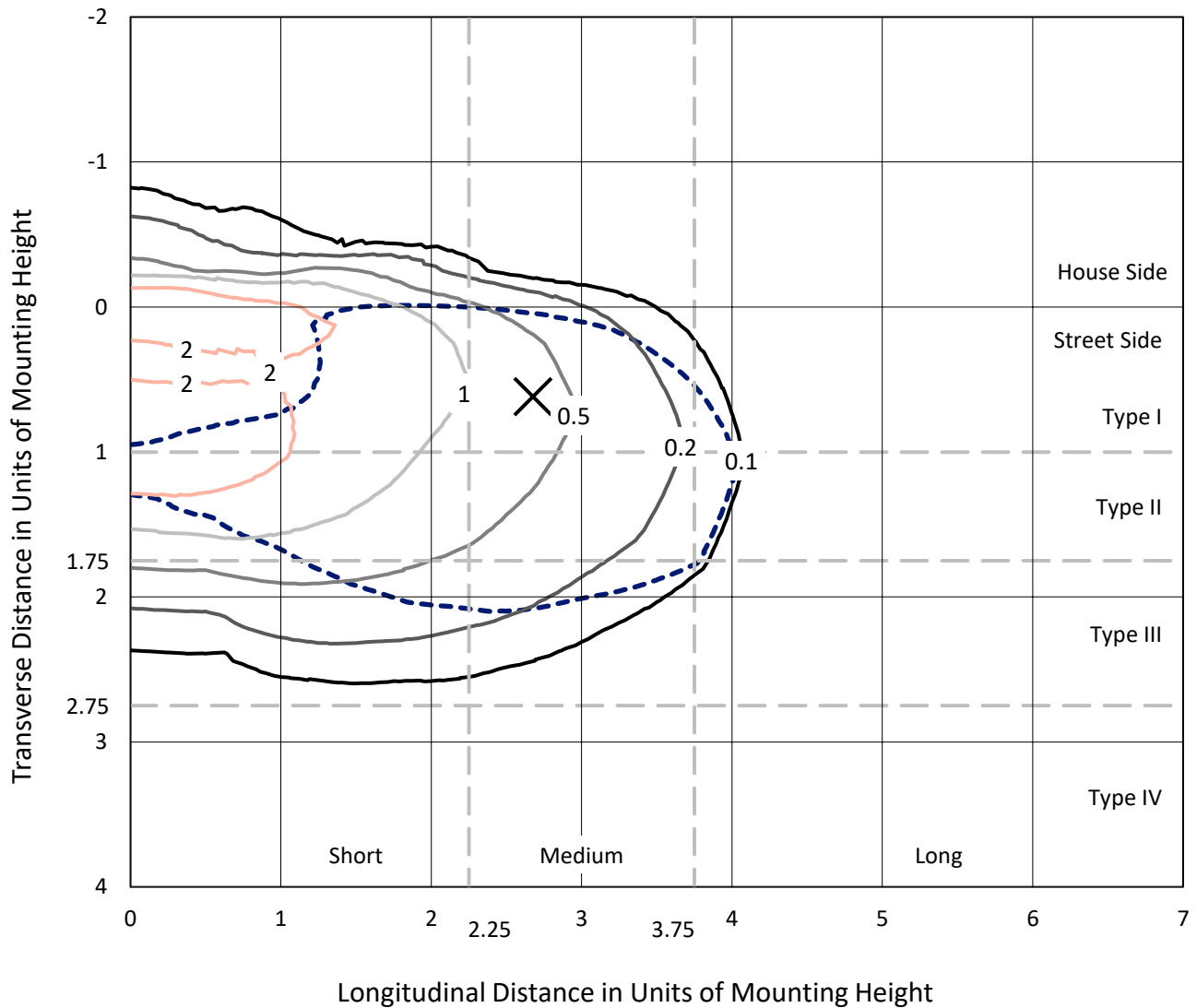
Lumens per Lamp: N/A  
Luminaire Lumens: 11855 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

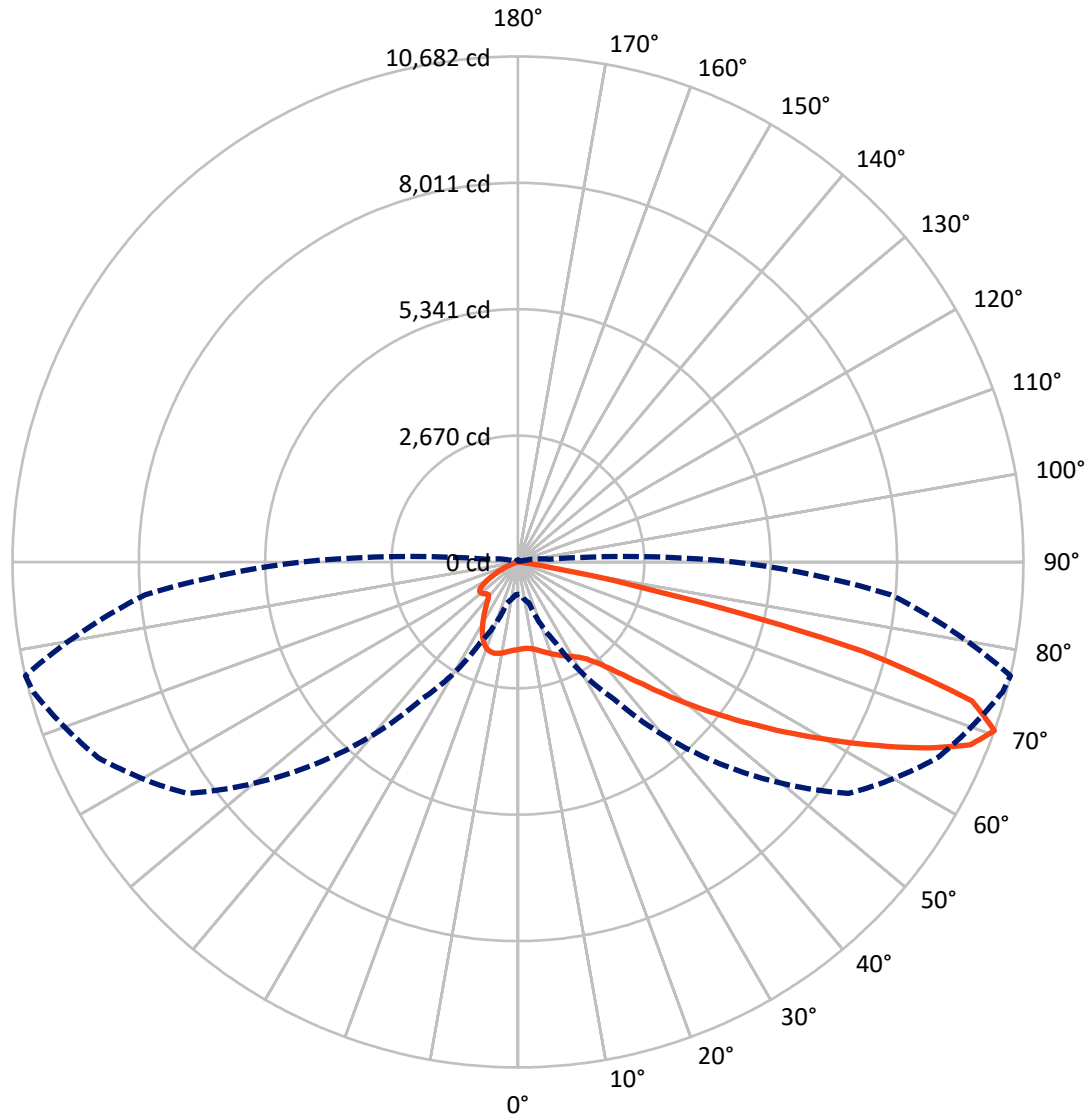
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1249.7	0.0	1249.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	10605.3	0.0	10605.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	11855.0	0.0	11855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.4	1.3
10°-20°	378.3	3.2
20°-30°	585.2	4.9
30°-40°	1061.8	9.0
40°-50°	2004.3	16.9
50°-60°	2896.0	24.4
60°-70°	3082.7	26.0
70°-80°	1633.6	13.8
80°-90°	53.6	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°	11855.0	100.0
0°-180°	11855.0	100.0

**Coefficient of Utilization**



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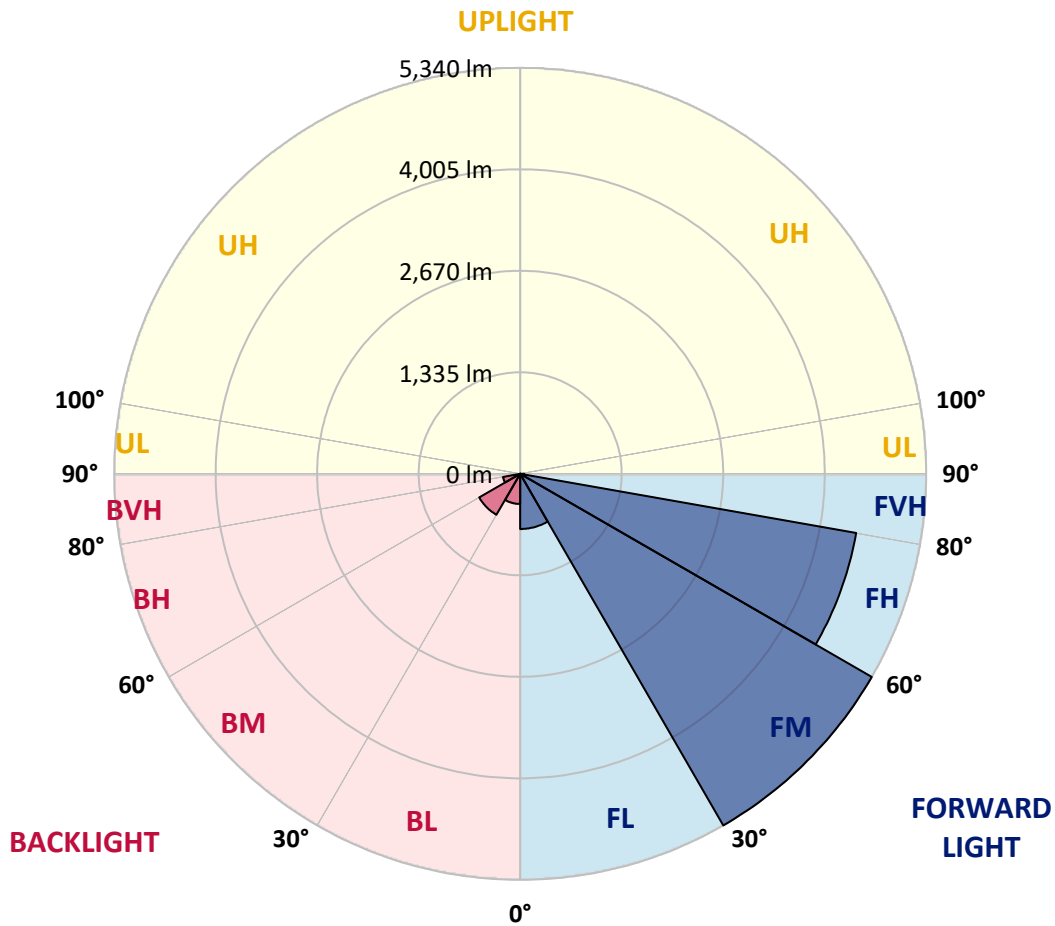
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.8	6.1			
FM (30°-60°)	5340.0	45.0			
FH (60°-80°)	4487.3	37.9			G2/5000
FVH (80°-90°)	52.2	0.4			G1/100
BL (0°-30°)	397.0	3.3	B1/500		
BM (30°-60°)	622.1	5.2	B1/1000		
BH (60°-80°)	229.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2
2.5°	1736.1	1751.8	1749.6	1760.1	1763.8	1778.8	1793.8	1814.0	1836.4	1835.7
5°	1638.0	1653.8	1657.5	1671.7	1689.7	1712.9	1743.6	1784.0	1826.0	1832.7
7.5°	1522.0	1538.5	1548.2	1576.7	1609.6	1657.5	1707.7	1766.8	1836.4	1846.2
10°	1406.0	1420.9	1433.7	1474.1	1526.5	1597.6	1679.2	1764.6	1858.1	1872.4
12.5°	1334.1	1348.3	1362.5	1397.7	1462.9	1549.7	1660.5	1775.0	1894.1	1914.3
15°	1308.6	1321.4	1332.6	1364.0	1424.7	1523.5	1656.8	1796.8	1939.8	1966.7
17.5°	1312.4	1319.1	1326.6	1350.6	1409.7	1511.5	1663.5	1834.2	1993.7	2017.6
20°	1334.1	1337.8	1338.6	1355.1	1407.5	1510.0	1677.0	1870.1	2044.6	2076.8
22.5°	1361.8	1363.3	1361.8	1373.0	1421.7	1521.3	1694.9	1913.5	2101.5	2131.4
25°	1491.3	1462.9	1426.9	1405.2	1445.6	1543.0	1721.9	1971.9	2163.6	2192.8
27.5°	1893.3	1811.7	1683.0	1538.5	1495.1	1574.4	1759.3	2031.1	2226.5	2252.7
30°	2546.2	2439.1	2220.5	1894.8	1653.8	1640.3	1808.0	2090.2	2293.1	2321.6
32.5°	3200.5	3174.3	2922.0	2471.3	2010.9	1787.0	1888.8	2170.3	2381.5	2403.9
35°	3862.3	3809.1	3602.5	3157.1	2561.1	2085.7	2023.6	2275.1	2497.5	2523.0
37.5°	4369.1	4336.9	4208.9	3842.1	3214.0	2546.9	2254.2	2437.6	2665.9	2694.4
40°	4816.8	4801.8	4758.4	4516.6	3943.9	3150.3	2612.8	2689.2	2899.5	2933.2
42.5°	5168.7	5203.9	5228.6	5161.2	4696.3	3839.1	3094.9	3042.5	3225.2	3259.6
45°	5528.8	5540.8	5640.3	5737.7	5443.4	4559.3	3638.4	3456.5	3630.2	3672.9
47.5°	5760.1	5808.0	5983.2	6154.7	6071.6	5273.5	4222.4	3945.4	4099.6	4179.7
50°	5777.3	5867.9	6109.0	6407.7	6529.0	5953.3	4857.2	4502.4	4666.3	4754.7
52.5°	5490.6	5631.3	6004.9	6442.1	6776.0	6529.0	5513.8	5059.4	5269.7	5385.0
55°	4209.7	4393.8	5613.4	6255.0	6785.8	6965.4	6153.2	5639.6	5942.0	6072.3
57.5°	3667.6	3760.5	4413.3	5930.1	6605.3	7141.4	6731.1	6192.1	6673.5	6835.2
60°	3051.5	3173.5	3701.3	5398.5	6360.5	7158.6	7241.7	6904.8	7466.3	7648.2
62.5°	2073.8	2206.3	2731.1	4485.2	6025.9	7150.4	7660.2	7638.5	8347.4	8542.8
65°	1284.7	1367.8	1713.7	3662.4	5558.0	7159.3	8098.1	8529.4	9277.3	9475.7
67.5°	1015.2	1053.4	1233.8	2811.9	4751.7	6957.2	8535.4	9367.1	10152.4	10309.7
70°	682.0	705.2	897.6	1885.1	3535.1	6024.4	8527.1	9787.9	10603.1	10681.7
72.5°	359.4	377.3	524.8	872.9	2135.2	4282.3	7187.8	9284.8	10154.7	10036.4
75°	179.7	209.6	353.4	443.2	911.9	2388.2	4463.5	7320.3	7992.6	7534.4
77.5°	136.3	164.7	292.0	292.0	317.4	804.1	1890.3	3992.6	3682.6	3066.5
80°	86.8	112.3	255.3	220.9	132.5	204.4	492.6	1118.5	782.3	595.2
82.5°	50.9	73.4	212.6	146.0	74.1	75.6	139.2	238.1	202.9	158.0
85°	20.2	47.9	146.0	57.6	29.2	18.7	41.9	50.9	41.9	31.4
87.5°	0.0	11.2	25.5	0.0	2.2	1.5	3.0	3.7	3.7	3.0
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°
1849.2	0°	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2
1850.7	2.5°	1857.4	1858.9	1863.4	1864.1	1853.7	1840.2	1834.9	1832.7	1823.7	1823.0
1862.6	5°	1879.9	1886.6	1879.9	1860.4	1814.0	1748.8	1699.4	1659.0	1622.3	1611.1
1903.8	7.5°	1924.8	1931.5	1911.3	1834.9	1718.2	1588.6	1471.8	1389.5	1315.4	1287.7
1954.0	10°	1989.2	1998.1	1934.5	1780.3	1573.7	1365.5	1167.9	1028.6	920.1	875.9
2022.1	12.5°	2070.0	2073.8	1947.2	1697.2	1385.8	1088.5	808.5	659.6	563.0	527.0
2104.5	15°	2159.1	2153.9	1948.7	1584.1	1129.7	769.6	527.8	433.5	394.5	382.6
2186.8	17.5°	2252.7	2231.0	1918.8	1420.9	849.0	526.3	391.5	369.1	362.3	359.4
2268.4	20°	2344.8	2296.1	1864.1	1207.6	609.4	393.0	355.6	348.9	345.1	343.6
2350.8	22.5°	2428.6	2345.5	1770.6	959.8	442.5	347.4	336.1	330.2	323.4	320.4
2430.9	25°	2510.2	2374.0	1638.8	728.4	354.1	324.9	315.9	304.7	295.7	292.0
2517.0	27.5°	2589.6	2391.9	1474.1	539.0	315.9	304.0	287.5	271.8	265.0	263.5
2609.0	30°	2674.2	2397.9	1286.9	402.0	292.7	277.7	253.8	235.8	232.1	232.8
2733.3	32.5°	2777.5	2406.9	1098.3	329.4	273.3	246.3	217.9	199.1	196.1	199.1
2914.5	35°	2901.0	2424.9	916.3	303.2	256.0	214.1	183.4	167.7	164.7	166.9
3146.6	37.5°	3068.7	2454.1	746.4	298.0	241.8	187.2	154.2	141.5	141.5	142.2
3431.1	40°	3291.8	2531.9	594.4	294.2	234.3	166.9	130.3	125.0	127.3	128.8
3793.4	42.5°	3563.6	2697.4	491.9	289.7	226.1	158.0	118.3	116.0	119.8	121.3
4227.6	45°	3868.3	2907.0	455.9	282.2	218.6	164.0	113.0	110.1	114.5	115.3
4714.3	47.5°	4183.5	3112.1	451.4	274.0	211.1	172.9	111.5	104.8	110.1	110.8
5233.8	50°	4502.4	3246.1	455.9	261.3	199.1	172.9	112.3	99.6	104.1	106.3
5772.8	52.5°	4823.6	3307.5	452.9	233.6	178.2	162.5	112.3	95.1	99.6	101.1
6355.3	55°	5135.0	3295.6	407.3	192.4	151.2	143.7	109.3	91.3	94.3	95.1
6905.5	57.5°	5381.3	3128.6	322.7	149.7	122.8	119.8	99.6	86.8	89.1	88.3
7410.1	60°	5510.1	2761.8	230.6	115.3	96.6	94.3	87.6	80.9	82.4	78.6
7837.6	62.5°	5511.6	2276.6	154.2	91.3	77.1	74.9	74.9	72.6	71.1	63.6
8168.5	65°	5394.0	1738.4	102.6	72.6	62.1	58.4	62.9	62.1	56.9	46.4
8269.6	67.5°	5127.5	1139.4	77.9	56.9	47.9	45.7	50.2	52.4	48.7	38.9
7901.3	70°	4579.5	663.3	64.4	44.2	35.9	33.7	40.4	44.9	40.4	31.4
6753.6	72.5°	3803.9	357.9	52.4	32.9	24.7	22.5	32.2	36.7	32.2	23.2
4333.2	75°	2468.3	191.7	40.4	21.7	12.7	14.2	24.0	27.0	22.5	15.0
1272.0	77.5°	828.8	84.6	25.5	10.5	6.0	6.0	14.2	16.5	10.5	5.2
231.3	80°	184.9	35.2	10.5	4.5	2.2	2.2	3.0	3.0	1.5	0.0
71.1	82.5°	60.6	14.2	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
18.0	85°	23.2	5.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	9.0	0.7	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°
1849.2
1824.5
1604.4
1276.4
857.2
515.8
382.6
358.6
342.1
319.7
290.5
262.0
232.8
198.4
166.2
141.5
128.8
121.3
116.0
111.5
107.1
101.1
95.1
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