

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: P950811

Luminaire Tested: **GALN-SB5A-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950811  
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-SB5A-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

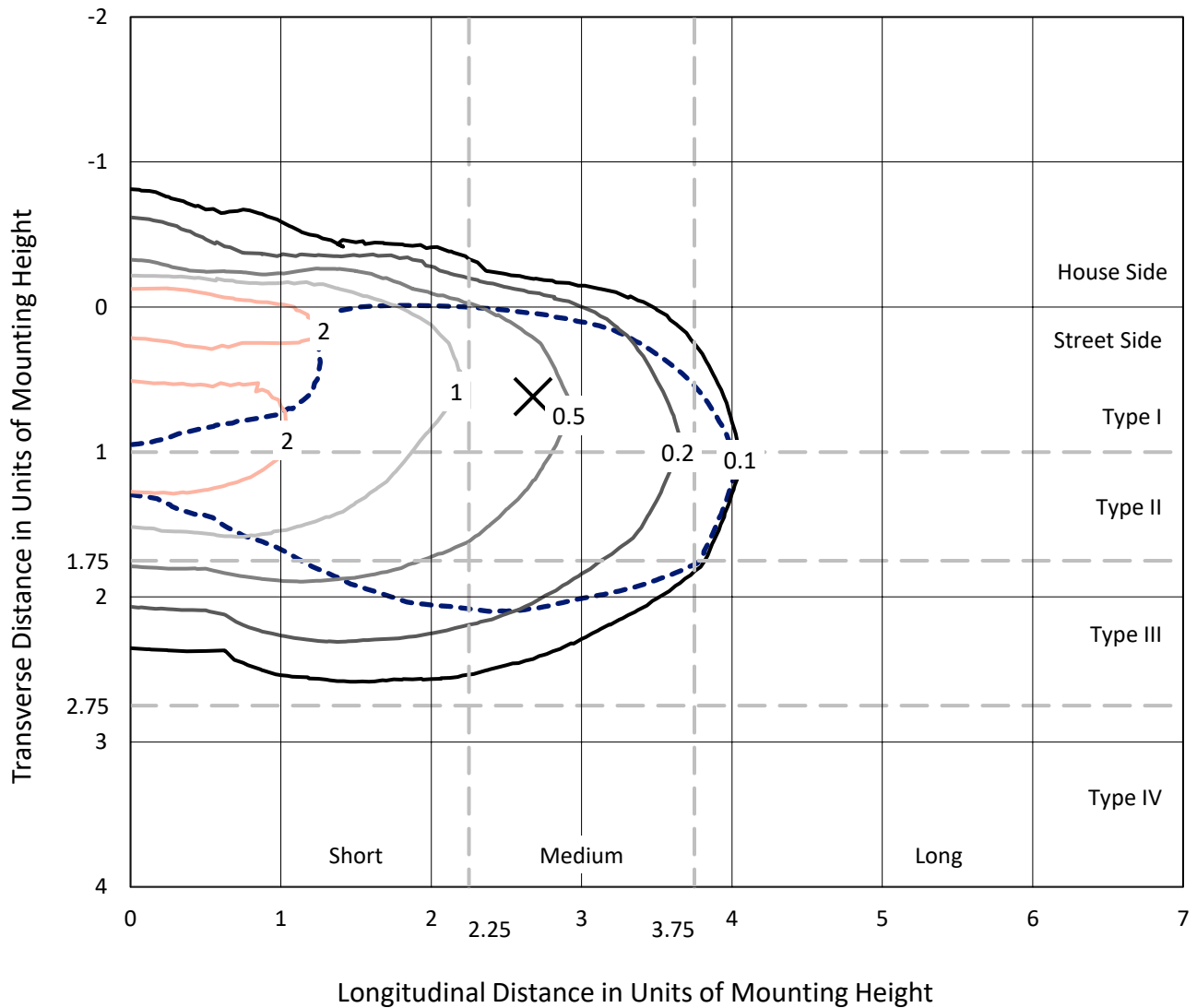
Lumens per Lamp: N/A  
Luminaire Lumens: 11483 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

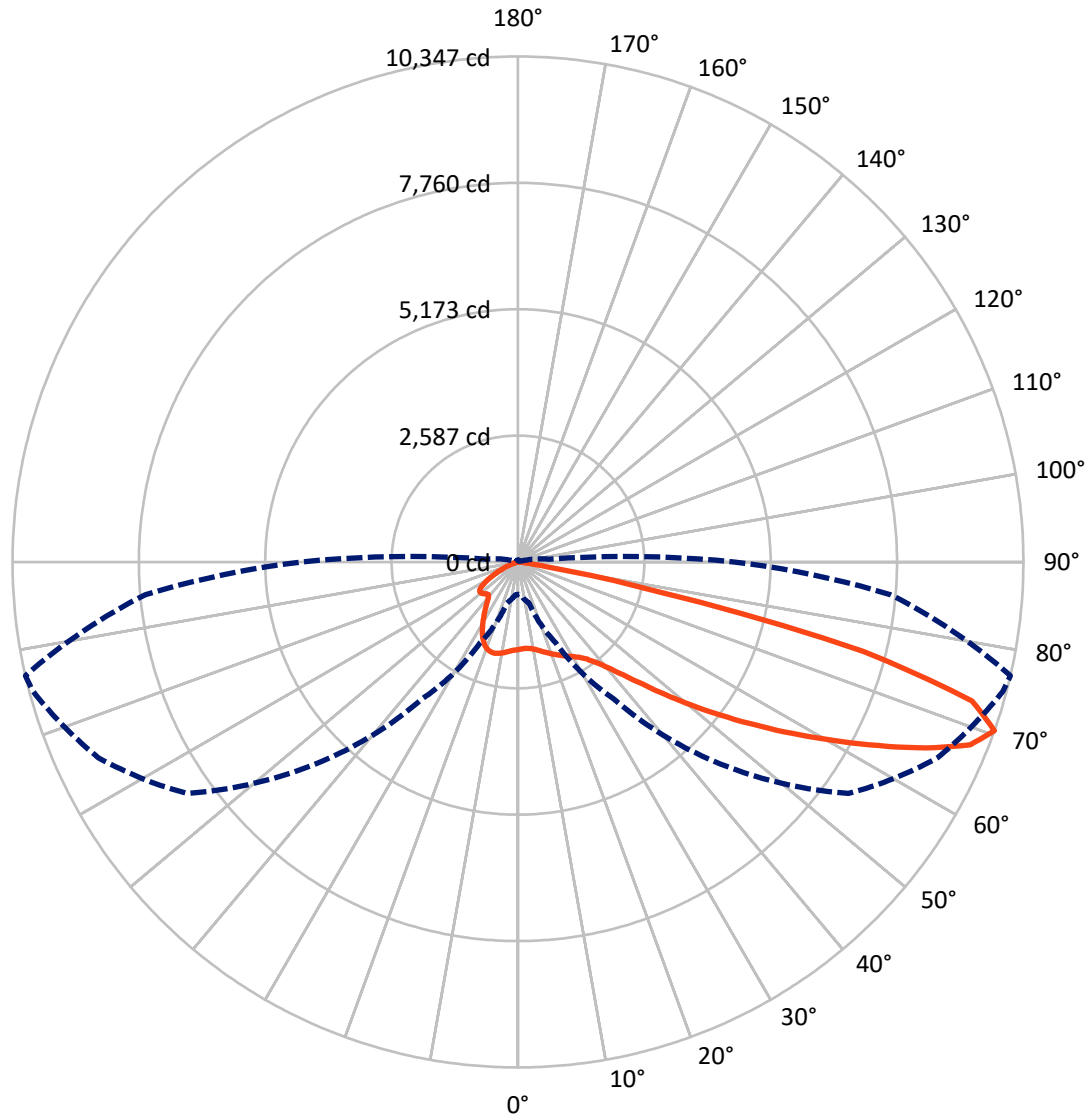
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1210.5	0.0	1210.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	10272.5	0.0	10272.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	11483.0	0.0	11483.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	1.3
10°-20°	366.5	3.2
20°-30°	566.8	4.9
30°-40°	1028.5	9.0
40°-50°	1941.4	16.9
50°-60°	2805.2	24.4
60°-70°	2986.0	26.0
70°-80°	1582.4	13.8
80°-90°	52.0	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°	11483.0	100.0
0°-180°	11483.0	100.0

**Coefficient of Utilization**



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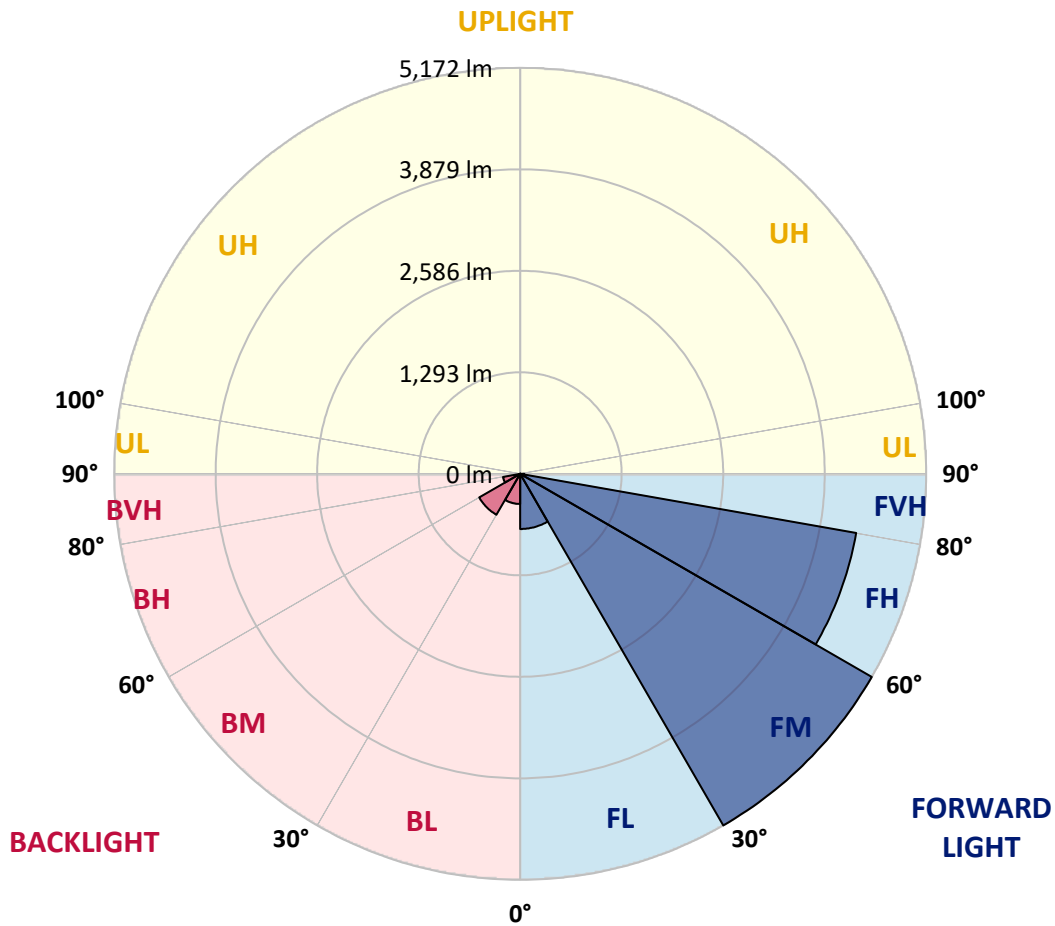
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.0	6.1			
FM (30°-60°)	5172.5	45.0			
FH (60°-80°)	4346.5	37.9			G2/5000
FVH (80°-90°)	50.6	0.4			G1/100
BL (0°-30°)	384.6	3.3	B1/500		
BM (30°-60°)	602.6	5.2	B1/1000		
BH (60°-80°)	221.9	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°	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1
2.5°	1681.6	1696.9	1694.7	1704.8	1708.5	1723.0	1737.5	1757.1	1778.8	1778.1
5°	1586.6	1601.9	1605.5	1619.3	1636.7	1659.2	1688.9	1728.1	1768.7	1775.2
7.5°	1474.2	1490.2	1499.6	1527.2	1559.1	1605.5	1654.1	1711.4	1778.8	1788.2
10°	1361.8	1376.4	1388.7	1427.8	1478.6	1547.5	1626.5	1709.2	1799.8	1813.6
12.5°	1292.2	1306.0	1319.8	1353.9	1417.0	1501.1	1608.4	1719.3	1834.7	1854.2
15°	1267.6	1279.9	1290.8	1321.2	1380.0	1475.7	1604.8	1740.4	1878.9	1905.0
17.5°	1271.2	1277.7	1285.0	1308.2	1365.5	1464.1	1611.3	1776.6	1931.1	1954.3
20°	1292.2	1295.9	1296.6	1312.5	1363.3	1462.6	1624.4	1811.4	1980.4	2011.6
22.5°	1319.1	1320.5	1319.1	1329.9	1377.1	1473.5	1641.8	1853.5	2035.5	2064.5
25°	1444.5	1417.0	1382.2	1361.1	1400.3	1494.6	1667.9	1910.1	2095.7	2124.0
27.5°	1833.9	1754.9	1630.2	1490.2	1448.1	1525.0	1704.1	1967.4	2156.6	2182.0
30°	2466.3	2362.6	2150.8	1835.4	1601.9	1588.8	1751.3	2024.6	2221.2	2248.7
32.5°	3100.1	3074.7	2830.3	2393.7	1947.8	1731.0	1829.6	2102.2	2306.7	2328.5
35°	3741.1	3689.6	3489.5	3058.0	2480.8	2020.3	1960.1	2203.8	2419.1	2443.8
37.5°	4232.0	4200.8	4076.8	3721.5	3113.1	2467.0	2183.5	2361.1	2582.3	2609.8
40°	4665.7	4651.2	4609.1	4374.9	3820.1	3051.5	2530.8	2604.8	2808.5	2841.2
42.5°	5006.5	5040.6	5064.5	4999.2	4548.9	3718.6	2997.8	2947.0	3124.0	3157.3
45°	5355.3	5366.9	5463.3	5557.6	5272.6	4416.2	3524.3	3348.1	3516.3	3557.6
47.5°	5579.4	5625.8	5795.5	5961.5	5881.0	5108.0	4089.9	3821.6	3971.0	4048.6
50°	5596.0	5683.8	5917.3	6206.6	6324.1	5766.5	4704.8	4361.1	4519.9	4605.5
52.5°	5318.3	5454.6	5816.5	6240.0	6563.4	6324.1	5340.8	4900.6	5104.4	5216.1
55°	4077.6	4256.0	5437.2	6058.7	6572.8	6746.9	5960.1	5462.6	5755.6	5881.8
57.5°	3552.5	3642.5	4274.8	5744.0	6398.1	6917.3	6519.9	5997.8	6464.1	6620.7
60°	2955.7	3073.9	3585.2	5229.1	6160.9	6934.0	7014.5	6688.1	7232.0	7408.2
62.5°	2008.7	2137.0	2645.4	4344.4	5836.8	6926.0	7419.8	7398.8	8085.5	8274.8
65°	1244.4	1324.9	1659.9	3547.5	5383.6	6934.7	7844.0	8261.7	8986.2	9178.3
67.5°	983.3	1020.3	1195.1	2723.7	4602.6	6738.9	8267.5	9073.2	9833.9	9986.2
70°	660.6	683.1	869.5	1825.9	3424.2	5835.3	8259.6	9480.7	10270.4	10346.6
72.5°	348.1	365.5	508.3	845.5	2068.2	4147.9	6962.2	8993.4	9836.0	9721.5
75°	174.0	203.0	342.3	429.3	883.2	2313.3	4323.4	7090.6	7741.8	7298.0
77.5°	132.0	159.5	282.8	282.8	307.5	778.8	1831.0	3867.3	3567.1	2970.2
80°	84.1	108.8	247.3	213.9	128.4	198.0	477.2	1083.4	757.8	576.5
82.5°	49.3	71.1	205.9	141.4	71.8	73.2	134.9	230.6	196.5	153.0
85°	19.6	46.4	141.4	55.8	28.3	18.1	40.6	49.3	40.6	30.5
87.5°	0.0	10.9	24.7	0.0	2.2	1.5	2.9	3.6	3.6	2.9
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°
1791.1	0°	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1	1791.1
1792.6	2.5°	1799.1	1800.6	1804.9	1805.6	1795.5	1782.4	1777.4	1775.2	1766.5	1765.8
1804.2	5°	1820.9	1827.4	1820.9	1802.0	1757.1	1694.0	1646.1	1607.0	1571.4	1560.5
1844.1	7.5°	1864.4	1870.9	1851.3	1777.4	1664.2	1538.8	1425.7	1345.9	1274.1	1247.3
1892.7	10°	1926.7	1935.4	1873.8	1724.4	1524.3	1322.7	1131.2	996.4	891.2	848.4
1958.7	12.5°	2005.1	2008.7	1886.1	1643.9	1342.3	1054.4	783.2	638.9	545.3	510.5
2038.4	15°	2091.4	2086.3	1887.6	1534.4	1094.3	745.5	511.2	419.9	382.2	370.6
2118.2	17.5°	2182.0	2161.0	1858.6	1376.4	822.3	509.8	379.3	357.5	351.0	348.1
2197.2	20°	2271.2	2224.1	1805.6	1169.7	590.3	380.7	344.5	337.9	334.3	332.8
2277.0	22.5°	2352.4	2271.9	1715.0	929.7	428.6	336.5	325.6	319.8	313.3	310.4
2354.6	25°	2431.5	2299.5	1587.4	705.6	343.0	314.7	306.0	295.1	286.4	282.8
2438.0	27.5°	2508.3	2316.9	1427.8	522.1	306.0	294.4	278.5	263.2	256.7	255.3
2527.2	30°	2590.3	2322.7	1246.5	389.4	283.5	269.0	245.8	228.4	224.8	225.5
2647.6	32.5°	2690.3	2331.4	1063.8	319.1	264.7	238.6	211.0	192.9	190.0	192.9
2823.0	35°	2810.0	2348.8	887.6	293.7	248.0	207.4	177.7	162.4	159.5	161.7
3047.8	37.5°	2972.4	2377.1	723.0	288.6	234.2	181.3	149.4	137.1	137.1	137.8
3323.4	40°	3188.5	2452.5	575.8	285.0	227.0	161.7	126.2	121.1	123.3	124.7
3674.4	42.5°	3451.8	2612.7	476.4	280.6	219.0	153.0	114.6	112.4	116.0	117.5
4095.0	45°	3746.9	2815.8	441.6	273.4	211.7	158.8	109.5	106.6	110.9	111.7
4566.3	47.5°	4052.2	3014.5	437.3	265.4	204.5	167.5	108.0	101.5	106.6	107.3
5069.6	50°	4361.1	3144.3	441.6	253.1	192.9	167.5	108.8	96.4	100.8	103.0
5591.7	52.5°	4672.2	3203.7	438.7	226.2	172.6	157.4	108.8	92.1	96.4	97.9
6155.9	55°	4973.9	3192.1	394.5	186.4	146.5	139.2	105.9	88.5	91.4	92.1
6688.9	57.5°	5212.4	3030.4	312.5	145.0	118.9	116.0	96.4	84.1	86.3	85.6
7177.6	60°	5337.2	2675.1	223.3	111.7	93.5	91.4	84.8	78.3	79.8	76.1
7591.7	62.5°	5338.6	2205.2	149.4	88.5	74.7	72.5	72.5	70.3	68.9	61.6
7912.2	65°	5224.8	1683.8	99.3	70.3	60.2	56.6	60.9	60.2	55.1	45.0
8010.1	67.5°	4966.6	1103.7	75.4	55.1	46.4	44.2	48.6	50.8	47.1	37.7
7653.3	70°	4435.8	642.5	62.4	42.8	34.8	32.6	39.2	43.5	39.2	30.5
6541.7	72.5°	3684.5	346.6	50.8	31.9	23.9	21.8	31.2	35.5	31.2	22.5
4197.2	75°	2390.8	185.6	39.2	21.0	12.3	13.8	23.2	26.1	21.8	14.5
1232.0	77.5°	802.8	81.9	24.7	10.2	5.8	5.8	13.8	16.0	10.2	5.1
224.1	80°	179.1	34.1	10.2	4.4	2.2	2.2	2.9	2.9	1.5	0.0
68.9	82.5°	58.7	13.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
17.4	85°	22.5	5.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	8.7	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

<u>180°</u>
1791.1
1767.2
1554.0
1236.4
830.3
499.6
370.6
347.4
331.4
309.6
281.4
253.8
225.5
192.2
161.0
137.1
124.7
117.5
112.4
108.0
103.7
97.9
92.1
85.6
75.4
59.5
43.5
37.0
29.0
21.8
13.1
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