

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: P947934

Luminaire Tested: **GALN-SB3A-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947934
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-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 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: 10718 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

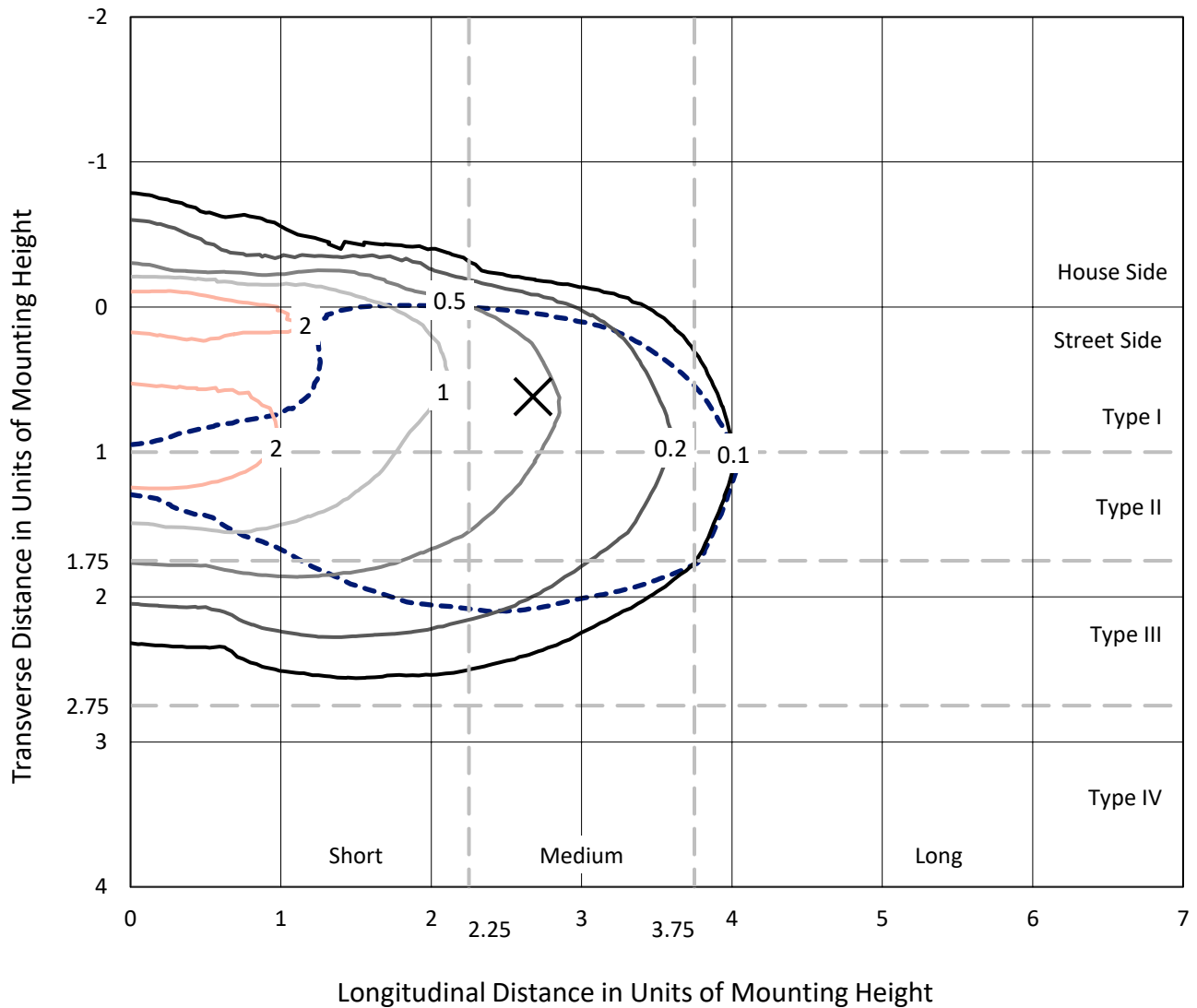
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

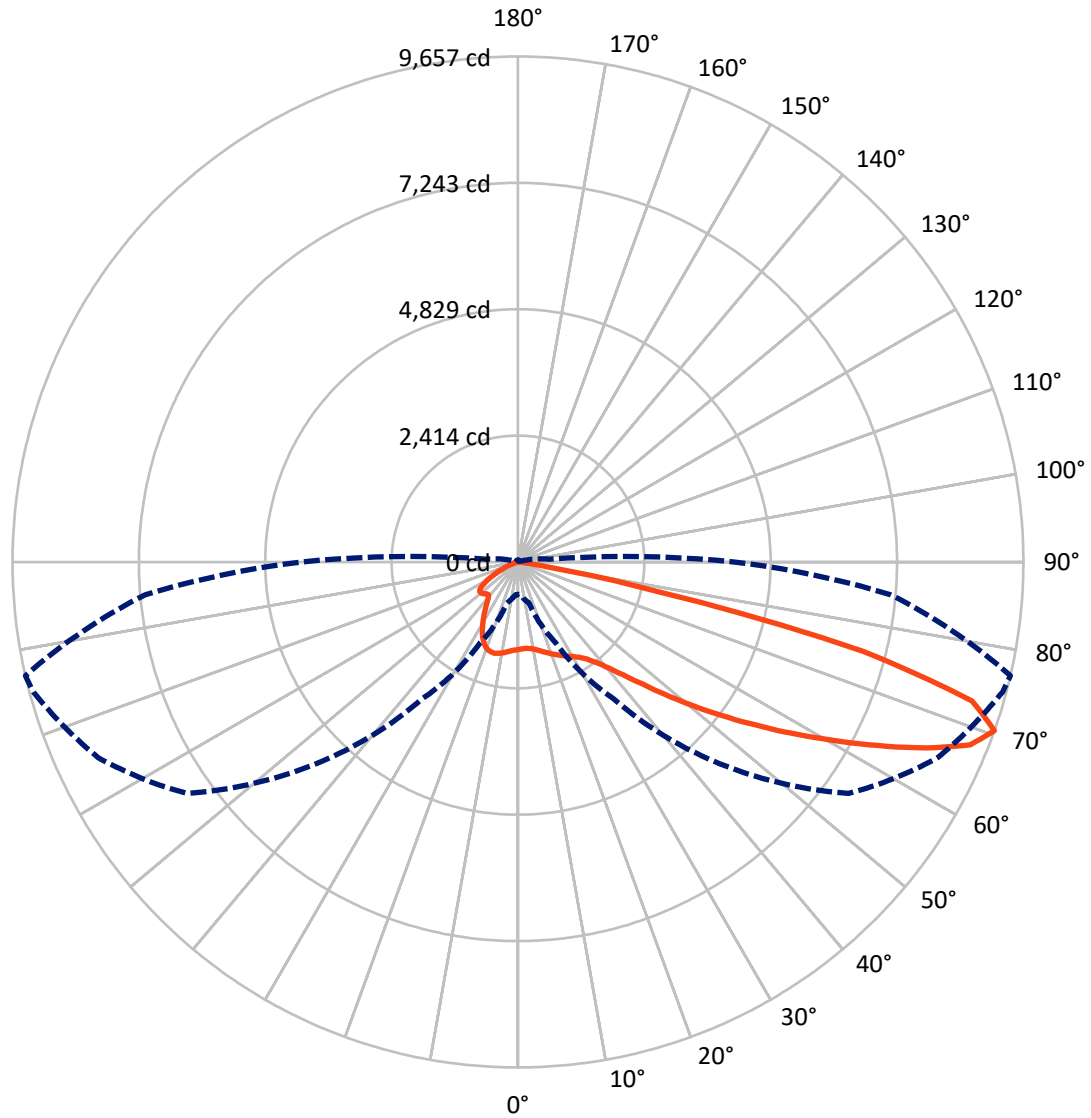
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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
House Side	Lumens	1129.8	0.0	1129.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9588.2	0.0	9588.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	10718.0	0.0	10718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	1.3
10°-20°	342.0	3.2
20°-30°	529.0	4.9
30°-40°	960.0	9.0
40°-50°	1812.1	16.9
50°-60°	2618.3	24.4
60°-70°	2787.1	26.0
70°-80°	1477.0	13.8
80°-90°	48.5	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°	10718.0	100.0
0°-180°	10718.0	100.0

Coefficient of Utilization



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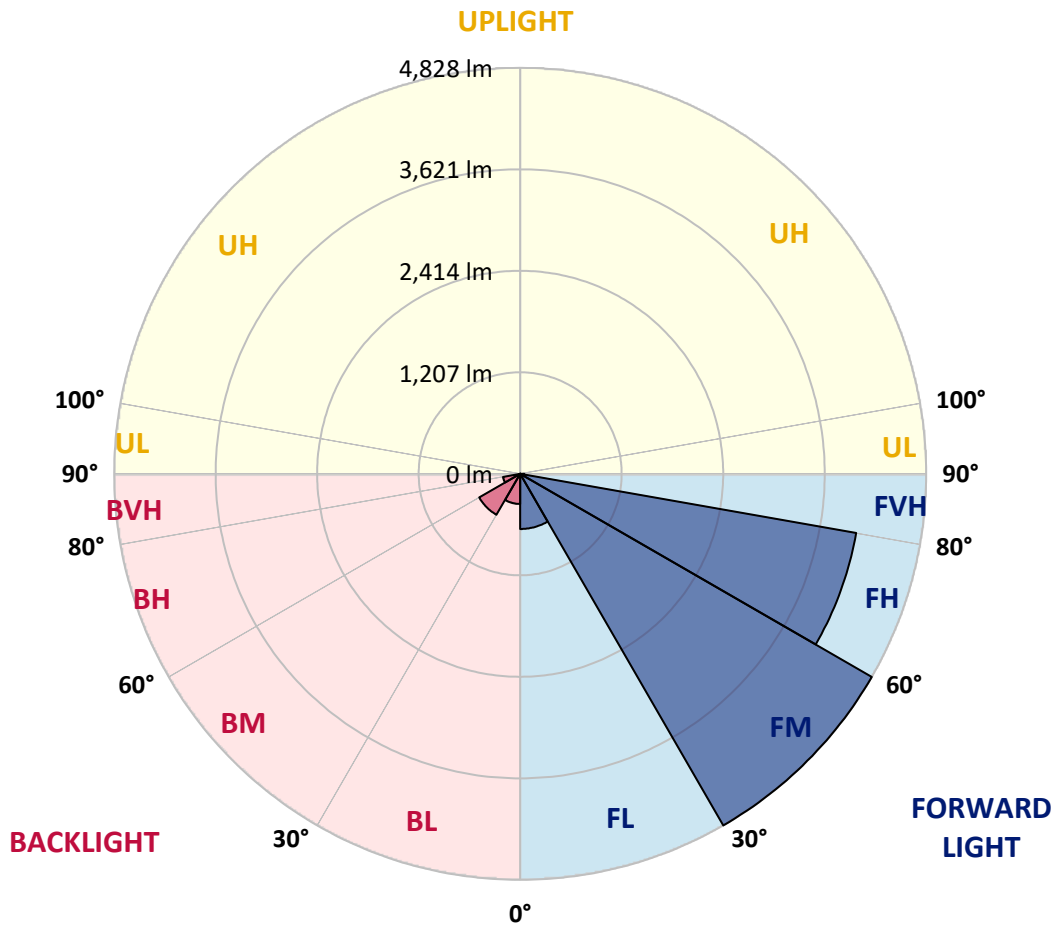
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	656.2	6.1			
FM (30°-60°)	4827.9	45.0			
FH (60°-80°)	4056.9	37.9			G2/5000
FVH (80°-90°)	47.2	0.4			G1/100
BL (0°-30°)	359.0	3.3	B1/500		
BM (30°-60°)	562.4	5.2	B1/1000		
BH (60°-80°)	207.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8
2.5°	1569.6	1583.8	1581.8	1591.3	1594.7	1608.2	1621.7	1640.0	1660.3	1659.6
5°	1480.9	1495.2	1498.5	1511.4	1527.6	1548.6	1576.4	1612.9	1650.8	1656.9
7.5°	1376.0	1390.9	1399.7	1425.4	1455.2	1498.5	1543.9	1597.4	1660.3	1669.1
10°	1271.1	1284.7	1296.2	1332.7	1380.1	1444.4	1518.2	1595.3	1679.9	1692.8
12.5°	1206.1	1219.0	1231.9	1263.7	1322.6	1401.1	1501.2	1604.8	1712.4	1730.7
15°	1183.1	1194.6	1204.8	1233.2	1288.0	1377.4	1497.9	1624.4	1753.7	1778.1
17.5°	1186.5	1192.6	1199.4	1221.0	1274.5	1366.6	1504.0	1658.3	1802.4	1824.1
20°	1206.1	1209.5	1210.2	1225.1	1272.5	1365.2	1516.1	1690.8	1848.5	1877.6
22.5°	1231.2	1232.5	1231.2	1241.3	1285.3	1375.4	1532.4	1730.0	1899.9	1927.0
25°	1348.3	1322.6	1290.1	1270.4	1307.0	1395.0	1556.8	1782.8	1956.1	1982.5
27.5°	1711.7	1638.0	1521.6	1390.9	1351.7	1423.4	1590.6	1836.3	2012.9	2036.6
30°	2302.0	2205.2	2007.5	1713.1	1495.2	1483.0	1634.6	1889.8	2073.2	2098.9
32.5°	2893.5	2869.8	2641.7	2234.3	1818.0	1615.6	1707.7	1962.2	2153.1	2173.4
35°	3491.9	3443.8	3257.0	2854.3	2315.5	1885.7	1829.5	2056.9	2258.0	2281.0
37.5°	3950.1	3921.0	3805.2	3473.6	2905.7	2302.6	2038.0	2203.8	2410.3	2436.0
40°	4354.8	4341.3	4302.0	4083.4	3565.6	2848.2	2362.2	2431.2	2621.4	2651.9
42.5°	4673.0	4704.8	4727.1	4666.2	4245.9	3470.9	2798.1	2750.7	2915.9	2947.0
45°	4998.5	5009.4	5099.4	5187.4	4921.4	4122.0	3289.5	3125.0	3282.0	3320.6
47.5°	5207.7	5251.0	5409.4	5564.4	5489.2	4767.7	3817.4	3567.0	3706.4	3778.8
50°	5223.2	5305.1	5523.1	5793.1	5902.8	5382.3	4391.4	4070.6	4218.8	4298.7
52.5°	4964.0	5091.3	5429.0	5824.3	6126.2	5902.8	4985.0	4574.1	4764.3	4868.6
55°	3805.9	3972.4	5075.0	5655.1	6134.9	6297.4	5563.0	5098.7	5372.1	5489.9
57.5°	3315.9	3399.8	3990.0	5361.3	5971.8	6456.5	6085.5	5598.2	6033.4	6179.6
60°	2758.8	2869.2	3346.3	4880.8	5750.5	6472.0	6547.2	6242.6	6750.2	6914.7
62.5°	1874.9	1994.7	2469.1	4055.0	5447.9	6464.6	6925.5	6905.9	7546.9	7723.5
65°	1161.5	1236.6	1549.3	3311.1	5024.9	6472.7	7321.5	7711.3	8387.5	8566.9
67.5°	917.8	952.3	1115.4	2542.2	4296.0	6289.9	7716.7	8468.7	9178.7	9320.9
70°	616.6	637.6	811.5	1704.3	3196.1	5446.6	7709.3	8849.1	9586.2	9657.3
72.5°	324.9	341.1	474.5	789.2	1930.4	3871.6	6498.4	8394.3	9180.8	9073.8
75°	162.4	189.5	319.5	400.7	824.4	2159.1	4035.4	6618.2	7226.0	6811.8
77.5°	123.2	148.9	264.0	264.0	287.0	726.9	1709.0	3609.6	3329.4	2772.4
80°	78.5	101.5	230.8	199.7	119.8	184.8	445.4	1011.2	707.3	538.1
82.5°	46.0	66.3	192.2	132.0	67.0	68.4	125.9	215.2	183.4	142.8
85°	18.3	43.3	132.0	52.1	26.4	16.9	37.9	46.0	37.9	28.4
87.5°	0.0	10.2	23.0	0.0	2.0	1.4	2.7	3.4	3.4	2.7
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°
1671.8	0°	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8
1673.2	2.5°	1679.3	1680.6	1684.7	1685.4	1675.9	1663.7	1659.0	1656.9	1648.8	1648.1
1684.0	5°	1699.6	1705.7	1699.6	1682.0	1640.0	1581.1	1536.4	1499.9	1466.7	1456.6
1721.2	7.5°	1740.2	1746.3	1728.0	1659.0	1553.4	1436.3	1330.7	1256.2	1189.2	1164.2
1766.6	10°	1798.4	1806.5	1749.0	1609.5	1422.7	1234.6	1055.9	930.0	831.8	791.9
1828.2	12.5°	1871.5	1874.9	1760.5	1534.4	1252.8	984.1	731.0	596.3	509.0	476.5
1902.6	15°	1952.0	1947.3	1761.8	1432.2	1021.4	695.8	477.2	391.9	356.7	345.9
1977.1	17.5°	2036.6	2017.0	1734.8	1284.7	767.5	475.8	354.0	333.7	327.6	324.9
2050.8	20°	2119.9	2075.9	1685.4	1091.8	551.0	355.3	321.5	315.4	312.0	310.7
2125.3	22.5°	2195.7	2120.6	1600.7	867.7	400.0	314.1	303.9	298.5	292.4	289.7
2197.7	25°	2269.5	2146.3	1481.6	658.6	320.1	293.8	285.6	275.5	267.4	264.0
2275.6	27.5°	2341.2	2162.5	1332.7	487.3	285.6	274.8	259.9	245.7	239.6	238.3
2358.8	30°	2417.7	2167.9	1163.5	363.5	264.6	251.1	229.5	213.2	209.8	210.5
2471.2	32.5°	2511.1	2176.1	992.9	297.8	247.0	222.7	197.0	180.0	177.3	180.0
2635.0	35°	2622.8	2192.3	828.5	274.1	231.5	193.6	165.8	151.6	148.9	150.9
2844.8	37.5°	2774.4	2218.7	674.8	269.4	218.6	169.2	139.4	127.9	127.9	128.6
3102.0	40°	2976.1	2289.1	537.4	266.0	211.9	150.9	117.8	113.0	115.1	116.4
3429.6	42.5°	3221.8	2438.7	444.7	261.9	204.4	142.8	106.9	104.9	108.3	109.6
3822.2	45°	3497.3	2628.2	412.2	255.2	197.6	148.2	102.2	99.5	103.6	104.2
4262.1	47.5°	3782.2	2813.7	408.1	247.7	190.9	156.4	100.9	94.8	99.5	100.2
4731.8	50°	4070.6	2934.8	412.2	236.2	180.0	156.4	101.5	90.0	94.1	96.1
5219.2	52.5°	4360.9	2990.3	409.5	211.2	161.1	146.9	101.5	86.0	90.0	91.4
5745.8	55°	4642.5	2979.5	368.2	173.9	136.7	130.0	98.8	82.6	85.3	86.0
6243.2	57.5°	4865.2	2828.5	291.7	135.4	111.0	108.3	90.0	78.5	80.5	79.9
6699.4	60°	4981.6	2496.9	208.5	104.2	87.3	85.3	79.2	73.1	74.5	71.1
7085.9	62.5°	4983.0	2058.3	139.4	82.6	69.7	67.7	67.7	65.7	64.3	57.5
7385.1	65°	4876.7	1571.6	92.7	65.7	56.2	52.8	56.9	56.2	51.4	42.0
7476.5	67.5°	4635.7	1030.2	70.4	51.4	43.3	41.3	45.3	47.4	44.0	35.2
7143.5	70°	4140.3	599.7	58.2	39.9	32.5	30.5	36.5	40.6	36.5	28.4
6105.8	72.5°	3439.1	323.5	47.4	29.8	22.3	20.3	29.1	33.2	29.1	21.0
3917.6	75°	2231.6	173.3	36.5	19.6	11.5	12.9	21.7	24.4	20.3	13.5
1150.0	77.5°	749.3	76.5	23.0	9.5	5.4	5.4	12.9	14.9	9.5	4.7
209.1	80°	167.2	31.8	9.5	4.1	2.0	2.0	2.7	2.7	1.4	0.0
64.3	82.5°	54.8	12.9	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
16.2	85°	21.0	4.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.4	87.5°	8.1	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>
1671.8
1649.5
1450.5
1154.0
775.0
466.3
345.9
324.2
309.3
289.0
262.6
236.9
210.5
179.4
150.3
127.9
116.4
109.6
104.9
100.9
96.8
91.4
86.0
79.9
70.4
55.5
40.6
34.5
27.1
20.3
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