

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: P949404

Luminaire Tested: **GALN-SB4A-930-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949404  
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-930-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

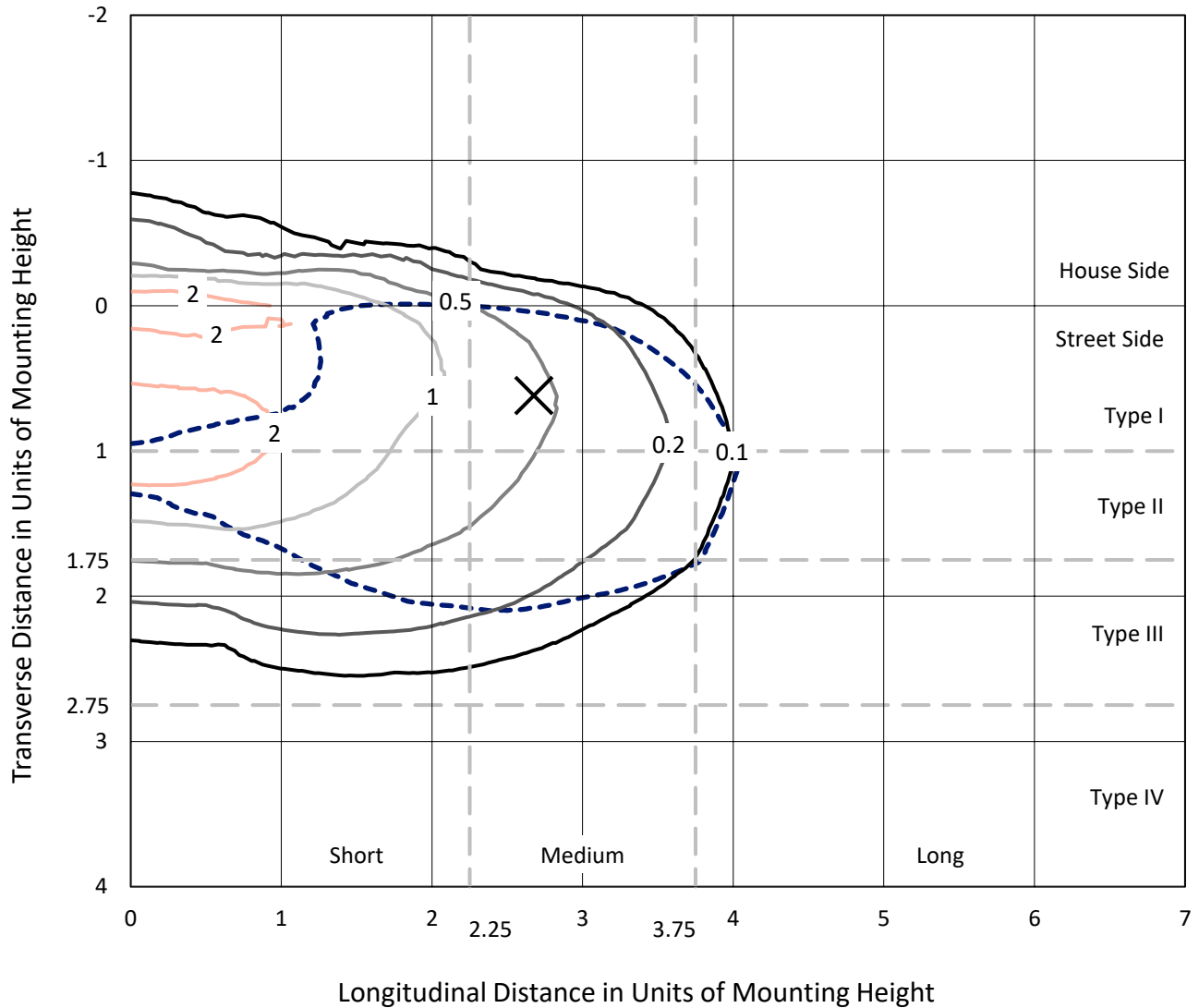
Lumens per Lamp: N/A  
Luminaire Lumens: 10412 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

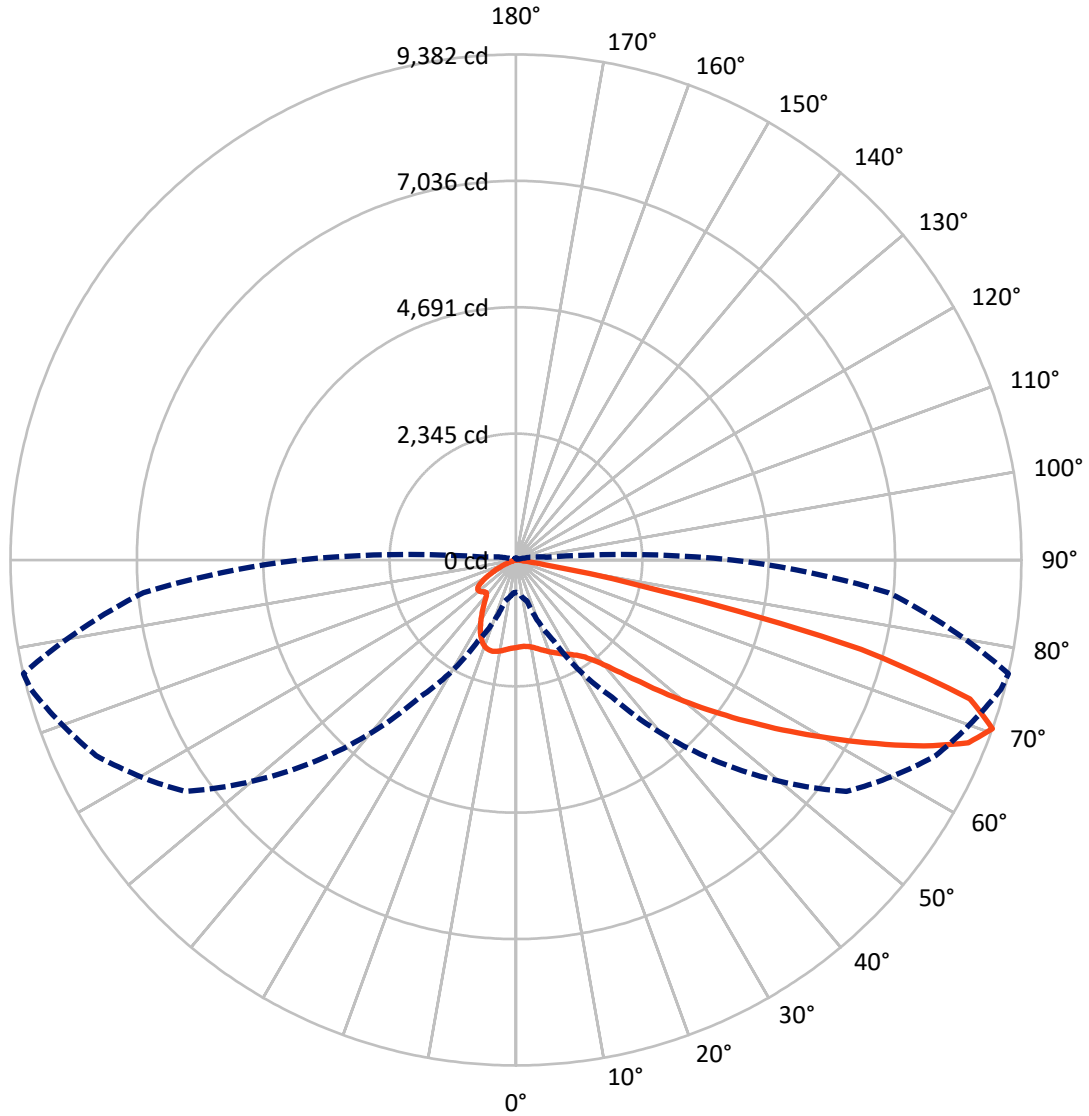
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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
<b>House Side</b>	Lumens	1097.6	0.0	1097.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	9314.4	0.0	9314.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	10412.0	0.0	10412.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.0	1.3
10°-20°	332.3	3.2
20°-30°	513.9	4.9
30°-40°	932.6	9.0
40°-50°	1760.3	16.9
50°-60°	2543.5	24.4
60°-70°	2707.5	26.0
70°-80°	1434.8	13.8
80°-90°	47.1	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°	10412.0	100.0
0°-180°	10412.0	100.0

**Coefficient of Utilization**



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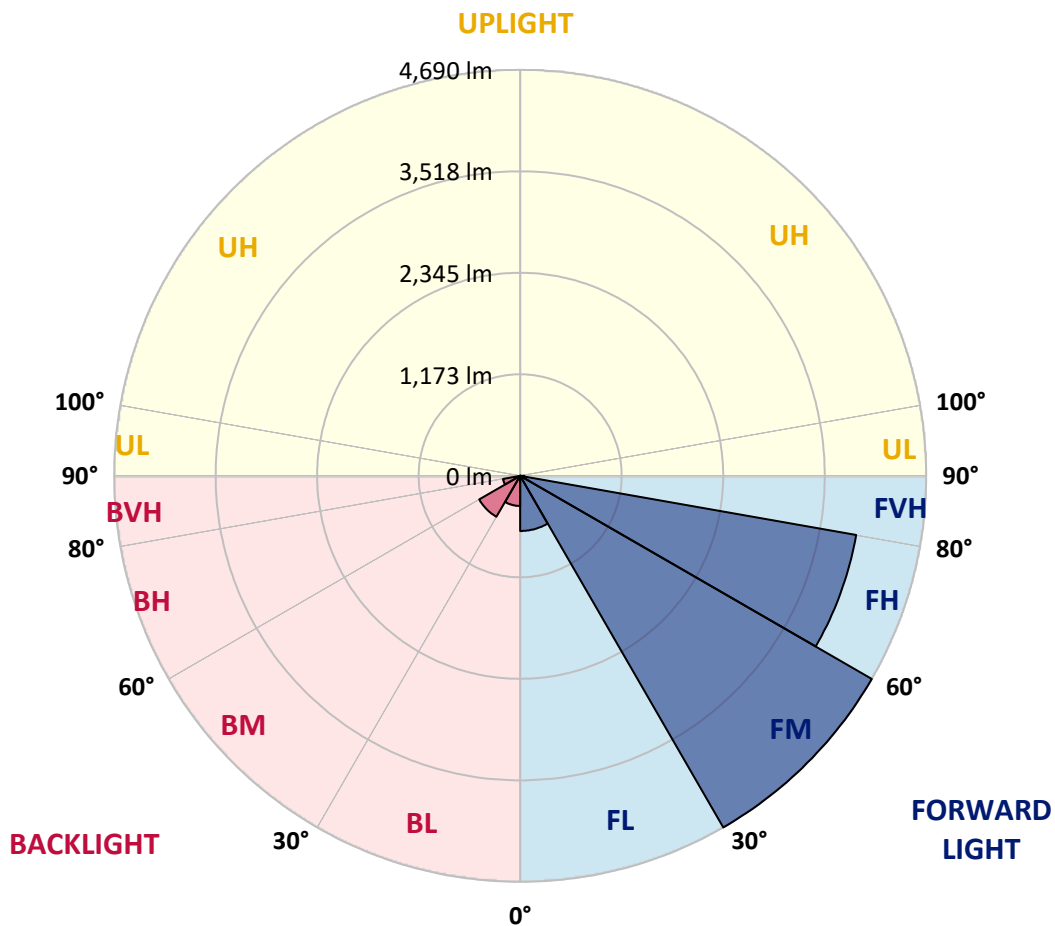
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.5	6.1			
FM (30°-60°)	4690.0	45.0			
FH (60°-80°)	3941.1	37.9			G2/5000
FVH (80°-90°)	45.8	0.4			G1/100
BL (0°-30°)	348.7	3.3	B1/500		
BM (30°-60°)	546.4	5.2	B1/1000		
BH (60°-80°)	201.2	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°	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1
2.5°	1524.8	1538.6	1536.6	1545.8	1549.1	1562.3	1575.4	1593.2	1612.9	1612.2
5°	1438.7	1452.5	1455.8	1468.3	1484.0	1504.4	1531.4	1566.9	1603.7	1609.6
7.5°	1336.7	1351.2	1359.8	1384.7	1413.7	1455.8	1499.8	1551.8	1612.9	1621.5
10°	1234.8	1248.0	1259.2	1294.7	1340.7	1403.2	1474.8	1549.8	1632.0	1644.5
12.5°	1171.7	1184.2	1196.7	1227.6	1284.8	1361.1	1458.4	1559.0	1663.5	1681.3
15°	1149.4	1160.5	1170.4	1198.0	1251.3	1338.1	1455.1	1578.1	1703.6	1727.3
17.5°	1152.6	1158.6	1165.1	1186.2	1238.1	1327.5	1461.0	1610.9	1751.0	1772.0
20°	1171.7	1175.0	1175.7	1190.1	1236.1	1326.2	1472.9	1642.5	1795.7	1824.0
22.5°	1196.0	1197.4	1196.0	1205.9	1248.6	1336.1	1488.6	1680.6	1845.7	1872.0
25°	1309.8	1284.8	1253.2	1234.2	1269.7	1355.2	1512.3	1731.9	1900.2	1925.9
27.5°	1662.9	1591.2	1478.1	1351.2	1313.1	1382.8	1545.2	1783.9	1955.5	1978.5
30°	2236.2	2142.2	1950.2	1664.2	1452.5	1440.6	1587.9	1835.8	2014.0	2039.0
32.5°	2810.9	2787.9	2566.3	2170.5	1766.1	1569.5	1658.9	1906.2	2091.6	2111.3
35°	3392.2	3345.5	3164.0	2772.8	2249.4	1831.9	1777.3	1998.2	2193.5	2215.9
37.5°	3837.3	3809.0	3696.6	3374.4	2822.7	2236.9	1979.8	2140.9	2341.4	2366.4
40°	4230.5	4217.4	4179.2	3966.8	3463.8	2766.9	2294.8	2361.8	2546.6	2576.2
42.5°	4539.5	4570.4	4592.1	4533.0	4124.6	3371.8	2718.2	2672.2	2832.6	2862.9
45°	4855.8	4866.3	4953.8	5039.3	4780.9	4004.3	3195.6	3035.8	3188.3	3225.8
47.5°	5059.0	5101.1	5254.9	5405.5	5332.5	4631.6	3708.4	3465.2	3600.6	3671.0
50°	5074.1	5153.7	5365.4	5627.7	5734.3	5228.6	4266.0	3954.3	4098.3	4175.9
52.5°	4822.3	4945.9	5274.0	5658.0	5951.2	5734.3	4842.7	4443.5	4628.3	4729.6
55°	3697.3	3859.0	4930.1	5493.6	5959.8	6117.6	5404.2	4953.1	5218.8	5333.2
57.5°	3221.2	3302.7	3876.1	5208.2	5801.3	6272.1	5911.8	5438.4	5861.2	6003.2
60°	2680.1	2787.2	3250.8	4741.4	5586.3	6287.2	6360.2	6064.3	6557.5	6717.3
62.5°	1821.3	1937.7	2398.6	3939.2	5292.4	6280.0	6727.8	6708.7	7331.4	7503.0
65°	1128.3	1201.3	1505.1	3216.6	4881.5	6287.9	7112.4	7491.2	8148.0	8322.3
67.5°	891.6	925.1	1083.6	2469.7	4173.3	6110.4	7496.4	8226.9	8916.7	9054.8
70°	599.0	619.4	788.4	1655.6	3104.8	5291.1	7489.2	8596.5	9312.5	9381.6
72.5°	315.6	331.4	460.9	766.7	1875.3	3761.0	6312.9	8154.6	8918.7	8814.8
75°	157.8	184.1	310.4	389.3	800.9	2097.5	3920.2	6429.3	7019.7	6617.3
77.5°	119.7	144.7	256.4	256.4	278.8	706.2	1660.2	3506.6	3234.4	2693.2
80°	76.3	98.6	224.2	194.0	116.4	179.5	432.7	982.3	687.1	522.7
82.5°	44.7	64.4	186.7	128.2	65.1	66.4	122.3	209.1	178.2	138.7
85°	17.8	42.1	128.2	50.6	25.6	16.4	36.8	44.7	36.8	27.6
87.5°	0.0	9.9	22.4	0.0	2.0	1.3	2.6	3.3	3.3	2.6
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°
1624.1	0°	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1
1625.4	2.5°	1631.3	1632.6	1636.6	1637.2	1628.0	1616.2	1611.6	1609.6	1601.7	1601.1
1635.9	5°	1651.0	1657.0	1651.0	1633.9	1593.2	1536.0	1492.6	1457.1	1424.9	1415.0
1672.1	7.5°	1690.5	1696.4	1678.7	1611.6	1509.0	1395.3	1292.7	1220.4	1155.3	1130.9
1716.1	10°	1747.0	1754.9	1699.0	1563.6	1382.1	1199.3	1025.7	903.4	808.1	769.3
1776.0	12.5°	1818.1	1821.3	1710.2	1490.6	1217.1	956.0	710.1	579.3	494.5	462.9
1848.3	15°	1896.3	1891.7	1711.5	1391.3	992.2	675.9	463.6	380.7	346.5	336.0
1920.6	17.5°	1978.5	1959.4	1685.2	1248.0	745.6	462.2	343.9	324.2	318.2	315.6
1992.3	20°	2059.4	2016.6	1637.2	1060.6	535.2	345.2	312.3	306.4	303.1	301.8
2064.6	22.5°	2133.0	2060.0	1555.0	842.9	388.6	305.1	295.2	290.0	284.1	281.4
2135.0	25°	2204.7	2085.0	1439.3	639.8	311.0	285.4	277.5	267.6	259.7	256.4
2210.6	27.5°	2274.4	2100.8	1294.7	473.4	277.5	267.0	252.5	238.7	232.8	231.4
2291.5	30°	2348.7	2106.0	1130.3	353.1	257.1	243.9	222.9	207.1	203.8	204.5
2400.6	32.5°	2439.4	2113.9	964.6	289.3	240.0	216.3	191.3	174.9	172.3	174.9
2559.7	35°	2547.9	2129.7	804.8	266.3	224.9	188.1	161.1	147.3	144.7	146.6
2763.6	37.5°	2695.2	2155.4	655.6	261.7	212.4	164.4	135.4	124.3	124.3	124.9
3013.4	40°	2891.1	2223.7	522.1	258.4	205.8	146.6	114.4	109.8	111.8	113.1
3331.7	42.5°	3129.8	2369.1	432.0	254.5	198.6	138.7	103.9	101.9	105.2	106.5
3713.0	45°	3397.4	2553.2	400.4	247.9	192.0	144.0	99.3	96.7	100.6	101.3
4140.4	47.5°	3674.2	2733.3	396.5	240.7	185.4	151.9	98.0	92.1	96.7	97.3
4596.7	50°	3954.3	2851.0	400.4	229.5	174.9	151.9	98.6	87.5	91.4	93.4
5070.2	52.5°	4236.4	2904.9	397.8	205.1	156.5	142.7	98.6	83.5	87.5	88.8
5581.7	55°	4510.0	2894.4	357.7	169.0	132.8	126.2	96.0	80.2	82.8	83.5
6065.0	57.5°	4726.3	2747.8	283.4	131.5	107.8	105.2	87.5	76.3	78.2	77.6
6508.2	60°	4839.4	2425.6	202.5	101.3	84.8	82.8	76.9	71.0	72.3	69.0
6883.6	62.5°	4840.7	1999.5	135.4	80.2	67.7	65.8	65.8	63.8	62.5	55.9
7174.2	65°	4737.5	1526.8	90.1	63.8	54.6	51.3	55.2	54.6	50.0	40.8
7263.0	67.5°	4503.4	1000.8	68.4	50.0	42.1	40.1	44.1	46.0	42.7	34.2
6939.5	70°	4022.1	582.6	56.5	38.8	31.6	29.6	35.5	39.5	35.5	27.6
5931.5	72.5°	3340.9	314.3	46.0	28.9	21.7	19.7	28.3	32.2	28.3	20.4
3805.7	75°	2167.9	168.3	35.5	19.1	11.2	12.5	21.0	23.7	19.7	13.2
1117.1	77.5°	727.9	74.3	22.4	9.2	5.3	5.3	12.5	14.5	9.2	4.6
203.2	80°	162.4	30.9	9.2	3.9	2.0	2.0	2.6	2.6	1.3	0.0
62.5	82.5°	53.3	12.5	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
15.8	85°	20.4	4.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.3	87.5°	7.9	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>
1624.1
1602.4
1409.1
1121.1
752.9
453.0
336.0
315.0
300.5
280.8
255.1
230.1
204.5
174.2
146.0
124.3
113.1
106.5
101.9
98.0
94.0
88.8
83.5
77.6
68.4
53.9
39.5
33.5
26.3
19.7
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