

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: P947766

Luminaire Tested: **GALN-SB3A-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947766
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-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 11205 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

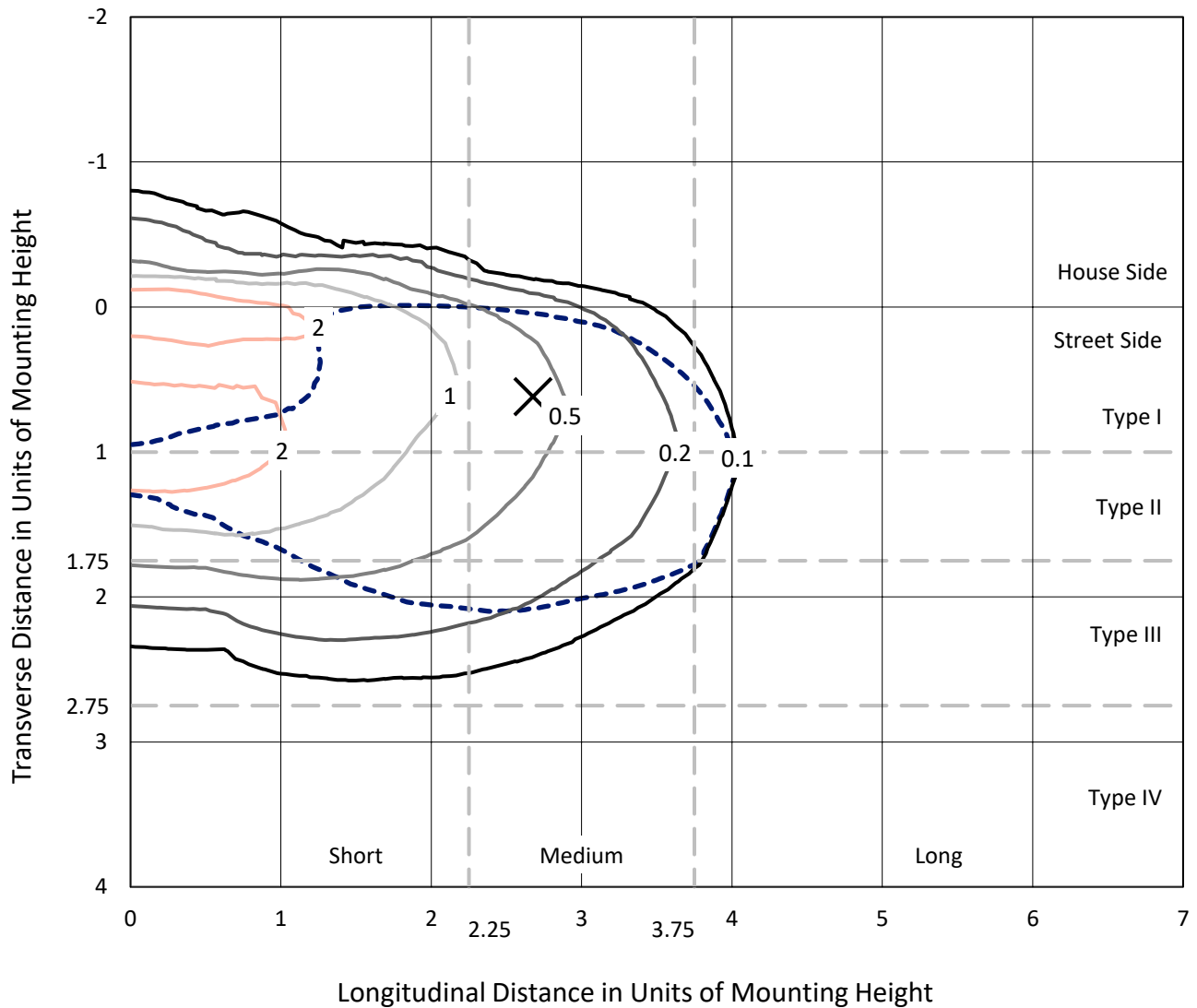
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

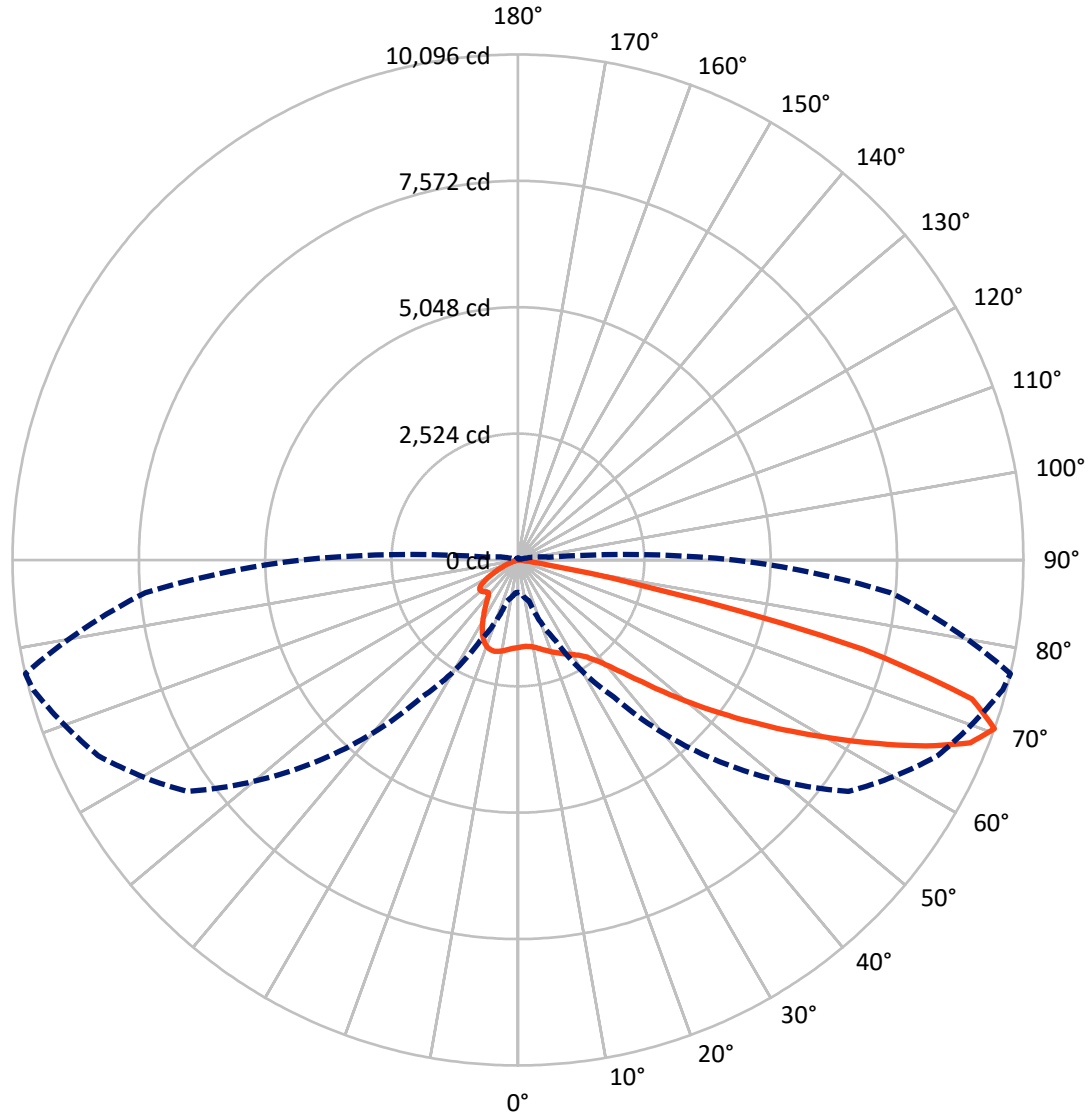
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1181.2	0.0	1181.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10023.8	0.0	10023.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	11205.0	0.0	11205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.3
10°-20°	357.6	3.2
20°-30°	553.1	4.9
30°-40°	1003.6	9.0
40°-50°	1894.4	16.9
50°-60°	2737.2	24.4
60°-70°	2913.7	26.0
70°-80°	1544.1	13.8
80°-90°	50.7	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°	11205.0	100.0
0°-180°	11205.0	100.0

Coefficient of Utilization



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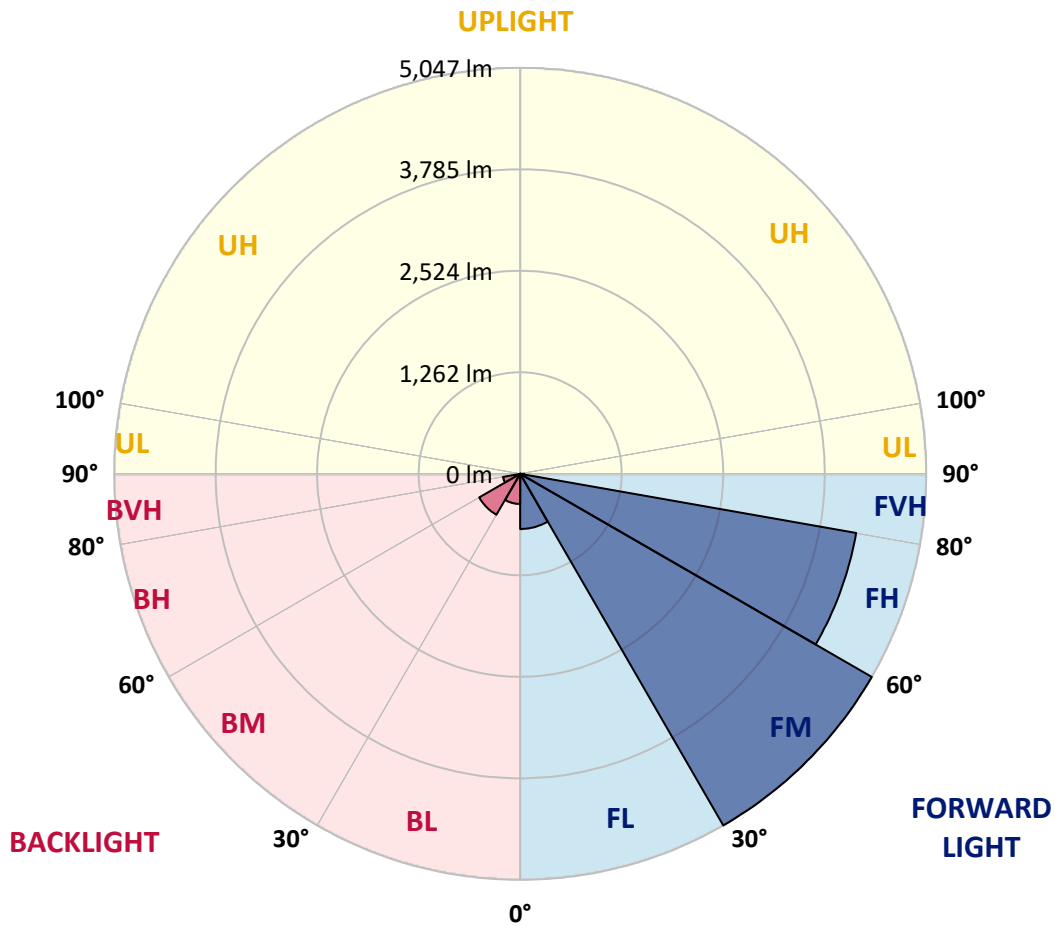
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.0	6.1			
FM (30°-60°)	5047.2	45.0			
FH (60°-80°)	4241.3	37.9			G2/5000
FVH (80°-90°)	49.3	0.4			G1/100
BL (0°-30°)	375.3	3.3	B1/500		
BM (30°-60°)	588.0	5.2	B1/1000		
BH (60°-80°)	216.5	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°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8
2.5°	1640.9	1655.8	1653.7	1663.6	1667.1	1681.3	1695.4	1714.5	1735.7	1735.0
5°	1548.2	1563.1	1566.6	1580.1	1597.1	1619.0	1648.0	1686.2	1725.8	1732.2
7.5°	1438.6	1454.1	1463.3	1490.2	1521.3	1566.6	1614.0	1669.9	1735.7	1744.9
10°	1328.9	1343.0	1355.1	1393.3	1442.8	1510.0	1587.2	1667.8	1756.3	1769.7
12.5°	1260.9	1274.4	1287.8	1321.1	1382.7	1464.7	1569.5	1677.7	1790.2	1809.3
15°	1236.9	1248.9	1259.5	1289.3	1346.6	1440.0	1565.9	1698.2	1833.4	1858.9
17.5°	1240.4	1246.8	1253.9	1276.5	1332.4	1428.6	1572.3	1733.6	1884.3	1907.0
20°	1260.9	1264.5	1265.2	1280.8	1330.3	1427.2	1585.0	1767.6	1932.5	1962.9
22.5°	1287.1	1288.5	1287.1	1297.7	1343.7	1437.8	1602.0	1808.6	1986.2	2014.5
25°	1409.5	1382.7	1348.7	1328.2	1366.4	1458.4	1627.5	1863.8	2045.0	2072.6
27.5°	1789.5	1712.4	1590.7	1454.1	1413.1	1488.1	1662.9	1919.7	2104.4	2129.2
30°	2406.6	2305.4	2098.7	1790.9	1563.1	1550.4	1708.9	1975.6	2167.4	2194.3
32.5°	3025.0	3000.2	2761.8	2335.8	1900.6	1689.0	1785.3	2051.3	2250.9	2272.1
35°	3650.5	3600.3	3405.0	2984.0	2420.7	1971.4	1912.6	2150.4	2360.6	2384.6
37.5°	4129.6	4099.1	3978.1	3631.4	3037.7	2407.3	2130.6	2304.0	2519.8	2546.7
40°	4552.7	4538.6	4497.5	4269.0	3727.6	2977.6	2469.5	2541.7	2740.5	2772.4
42.5°	4885.3	4918.5	4941.9	4878.2	4438.8	3628.6	2925.2	2875.7	3048.4	3080.9
45°	5225.6	5237.0	5331.1	5423.1	5145.0	4309.3	3438.9	3267.0	3431.2	3471.5
47.5°	5444.3	5489.6	5655.2	5817.2	5738.7	4984.4	3990.9	3729.1	3874.8	3950.5
50°	5460.6	5546.2	5774.0	6056.4	6171.0	5626.9	4590.9	4255.5	4410.5	4494.0
52.5°	5189.6	5322.6	5675.7	6088.9	6404.5	6171.0	5211.5	4782.0	4980.8	5089.8
55°	3978.8	4152.9	5305.6	5912.0	6413.7	6583.5	5815.8	5330.4	5616.2	5739.4
57.5°	3466.5	3554.3	4171.3	5604.9	6243.2	6749.8	6362.1	5852.6	6307.6	6460.4
60°	2884.2	2999.5	3498.4	5102.5	6011.8	6766.1	6844.6	6526.2	7056.9	7228.9
62.5°	1960.1	2085.3	2581.3	4239.2	5695.5	6758.3	7240.2	7219.7	7889.8	8074.4
65°	1214.2	1292.8	1619.7	3461.6	5253.2	6766.8	7654.1	8061.7	8768.6	8956.1
67.5°	959.5	995.6	1166.1	2657.8	4491.2	6575.7	8067.4	8853.5	9595.8	9744.4
70°	644.6	666.6	848.4	1781.7	3341.3	5694.1	8059.6	9251.2	10021.8	10096.1
72.5°	339.6	356.6	496.0	825.1	2018.1	4047.5	6793.7	8775.7	9597.9	9486.1
75°	169.8	198.1	334.0	418.9	861.9	2257.3	4218.7	6918.9	7554.4	7121.3
77.5°	128.8	155.7	276.0	276.0	300.0	760.0	1786.7	3773.6	3480.7	2898.3
80°	82.1	106.1	241.3	208.7	125.2	193.2	465.6	1057.2	739.4	562.5
82.5°	48.1	69.3	201.0	138.0	70.1	71.5	131.6	225.0	191.8	149.3
85°	19.1	45.3	138.0	54.5	27.6	17.7	39.6	48.1	39.6	29.7
87.5°	0.0	10.6	24.1	0.0	2.1	1.4	2.8	3.5	3.5	2.8
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°
1747.8	0°	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8
1749.2	2.5°	1755.6	1757.0	1761.2	1761.9	1752.0	1739.3	1734.3	1732.2	1723.7	1723.0
1760.5	5°	1776.8	1783.2	1776.8	1758.4	1714.5	1653.0	1606.3	1568.0	1533.4	1522.8
1799.4	7.5°	1819.2	1825.6	1806.5	1734.3	1623.9	1501.5	1391.1	1313.3	1243.3	1217.1
1846.8	10°	1880.1	1888.6	1828.4	1682.7	1487.4	1290.7	1103.9	972.2	869.6	827.9
1911.2	12.5°	1956.5	1960.1	1840.5	1604.1	1309.8	1028.9	764.2	623.4	532.1	498.2
1989.1	15°	2040.7	2035.8	1841.9	1497.3	1067.8	727.4	498.9	409.7	372.9	361.6
2066.9	17.5°	2129.2	2108.7	1813.6	1343.0	802.4	497.4	370.1	348.8	342.5	339.6
2144.0	20°	2216.2	2170.2	1761.9	1141.4	576.0	371.5	336.1	329.7	326.2	324.8
2221.9	22.5°	2295.5	2216.9	1673.5	907.1	418.2	328.3	317.7	312.1	305.7	302.9
2297.6	25°	2372.6	2243.8	1548.9	688.5	334.7	307.1	298.6	288.0	279.5	276.0
2379.0	27.5°	2447.6	2260.8	1393.3	509.5	298.6	287.3	271.7	256.9	250.5	249.1
2466.0	30°	2527.6	2266.5	1216.4	380.0	276.7	262.5	239.9	222.9	219.4	220.1
2583.5	32.5°	2625.2	2274.9	1038.1	311.3	258.3	232.8	205.9	188.2	185.4	188.2
2754.7	35°	2742.0	2291.9	866.1	286.6	242.0	202.4	173.4	158.5	155.7	157.8
2974.1	37.5°	2900.5	2319.5	705.5	281.6	228.6	176.9	145.8	133.7	133.7	134.4
3242.9	40°	3111.3	2393.1	561.8	278.1	221.5	157.8	123.1	118.2	120.3	121.7
3585.4	42.5°	3368.2	2549.5	464.9	273.8	213.7	149.3	111.8	109.7	113.2	114.6
3995.8	45°	3656.2	2747.6	430.9	266.8	206.6	155.0	106.8	104.0	108.3	109.0
4455.8	47.5°	3954.1	2941.5	426.7	259.0	199.5	163.5	105.4	99.1	104.0	104.7
4946.8	50°	4255.5	3068.2	430.9	247.0	188.2	163.5	106.1	94.1	98.4	100.5
5456.3	52.5°	4559.1	3126.2	428.1	220.8	168.4	153.5	106.1	89.9	94.1	95.5
6006.8	55°	4853.4	3114.9	384.9	181.9	142.9	135.9	103.3	86.3	89.2	89.9
6526.9	57.5°	5086.2	2957.1	305.0	141.5	116.0	113.2	94.1	82.1	84.2	83.5
7003.8	60°	5208.0	2610.3	217.9	109.0	91.3	89.2	82.8	76.4	77.8	74.3
7407.9	62.5°	5209.4	2151.8	145.8	86.3	72.9	70.8	70.8	68.6	67.2	60.1
7720.6	65°	5098.3	1643.1	96.9	68.6	58.7	55.2	59.4	58.7	53.8	43.9
7816.2	67.5°	4846.4	1077.0	73.6	53.8	45.3	43.2	47.4	49.5	46.0	36.8
7468.0	70°	4328.4	626.9	60.9	41.7	34.0	31.8	38.2	42.5	38.2	29.7
6383.3	72.5°	3595.3	338.2	49.5	31.1	23.4	21.2	30.4	34.7	30.4	21.9
4095.6	75°	2333.0	181.1	38.2	20.5	12.0	13.4	22.6	25.5	21.2	14.2
1202.2	77.5°	783.3	80.0	24.1	9.9	5.7	5.7	13.4	15.6	9.9	5.0
218.6	80°	174.8	33.3	9.9	4.2	2.1	2.1	2.8	2.8	1.4	0.0
67.2	82.5°	57.3	13.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
17.0	85°	21.9	5.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.7	87.5°	8.5	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>
1747.8
1724.4
1516.4
1206.5
810.2
487.5
361.6
338.9
323.4
302.1
274.5
247.7
220.1
187.5
157.1
133.7
121.7
114.6
109.7
105.4
101.2
95.5
89.9
83.5
73.6
58.0
42.5
36.1
28.3
21.2
12.7
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