

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: P945981

Luminaire Tested: **GALN-SB1D-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945981
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-SB1D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8475 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

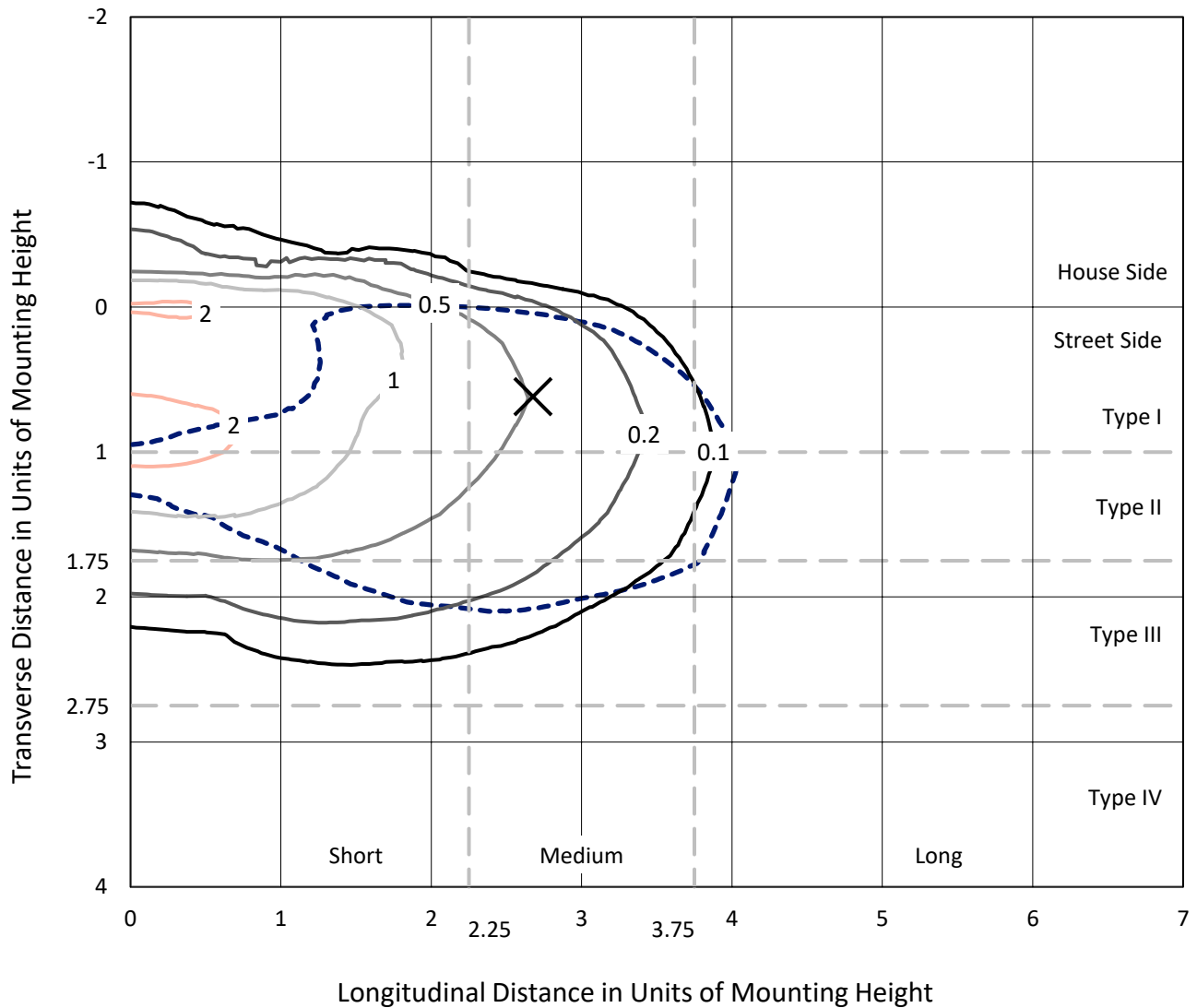
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

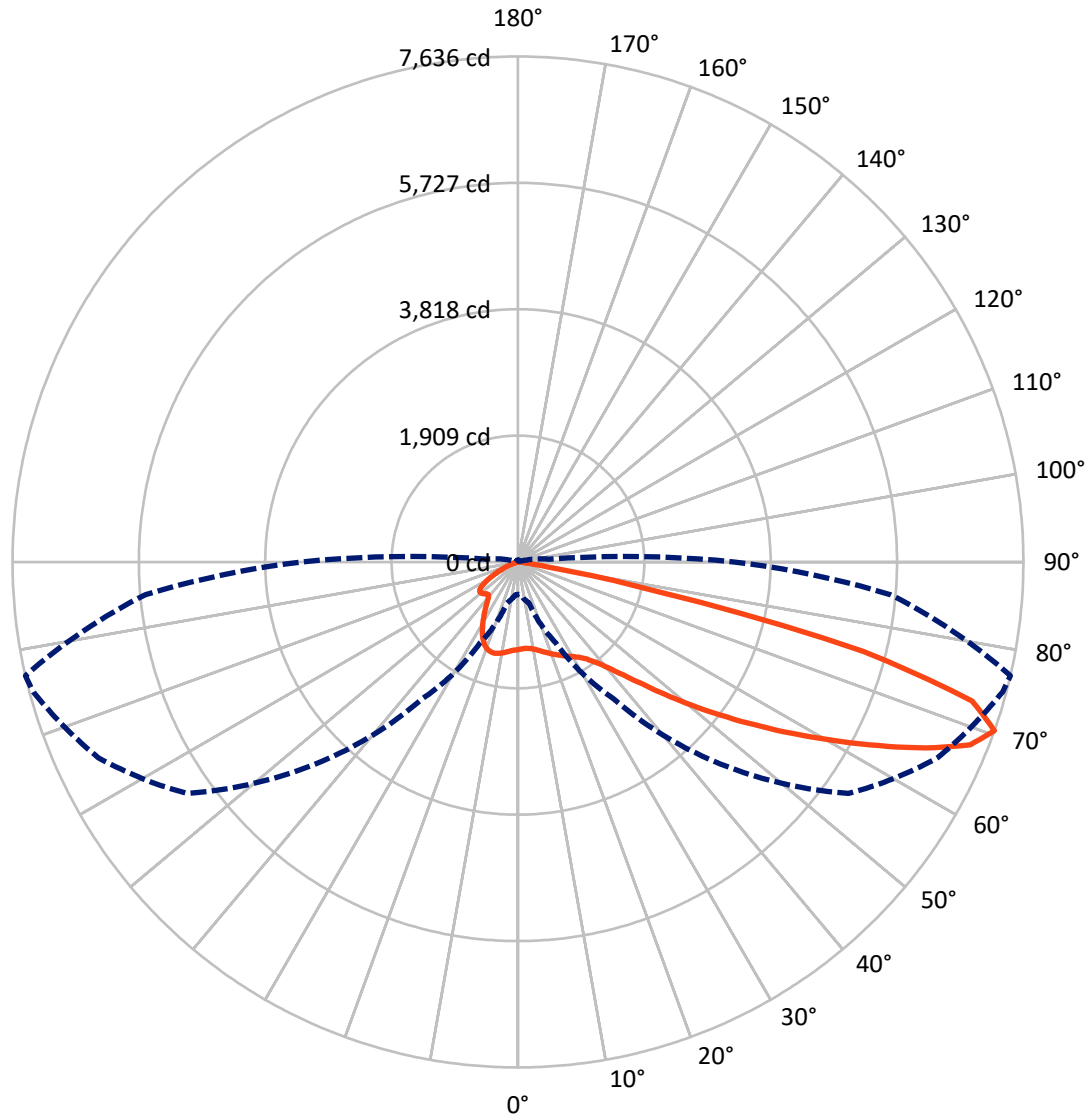
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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
House Side	Lumens	893.4	0.0	893.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7581.6	0.0	7581.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	8475.0	0.0	8475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	1.3
10°-20°	270.5	3.2
20°-30°	418.3	4.9
30°-40°	759.1	9.0
40°-50°	1432.8	16.9
50°-60°	2070.3	24.4
60°-70°	2203.8	26.0
70°-80°	1167.9	13.8
80°-90°	38.3	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°	8475.0	100.0
0°-180°	8475.0	100.0

Coefficient of Utilization



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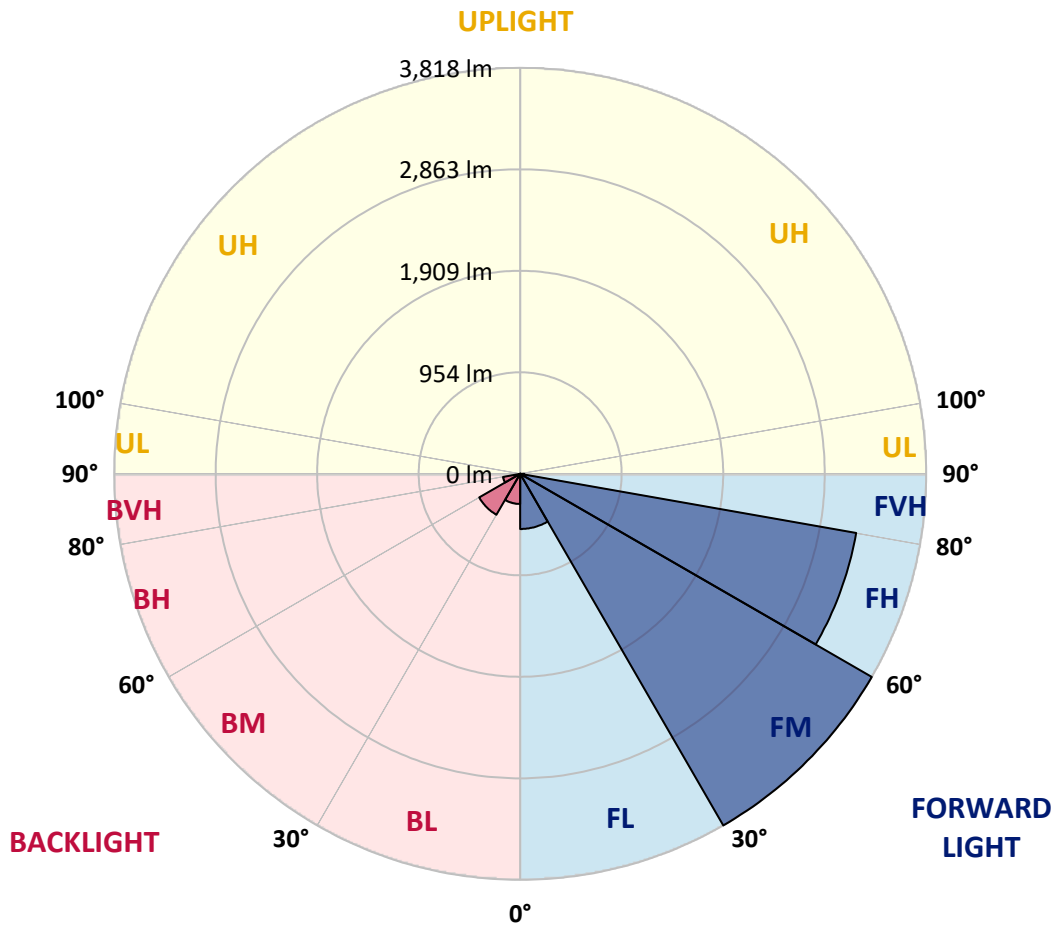
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.9	6.1			
FM (30°-60°)	3817.5	45.0			
FH (60°-80°)	3207.9	37.9			G2/5000
FVH (80°-90°)	37.3	0.4			G1/100
BL (0°-30°)	283.8	3.3	B1/500		
BM (30°-60°)	444.7	5.2	B1/1000		
BH (60°-80°)	163.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1241.1	1252.4	1250.8	1258.3	1260.9	1271.6	1282.3	1296.8	1312.8	1312.3
5°	1171.0	1182.3	1184.9	1195.1	1207.9	1224.5	1246.5	1275.4	1305.4	1310.2
7.5°	1088.1	1099.8	1106.8	1127.1	1150.7	1184.9	1220.8	1263.1	1312.8	1319.8
10°	1005.1	1015.8	1024.9	1053.8	1091.3	1142.1	1200.5	1261.5	1328.4	1338.5
12.5°	953.7	963.9	974.1	999.2	1045.8	1107.9	1187.1	1269.0	1354.1	1368.5
15°	935.5	944.6	952.7	975.1	1018.5	1089.1	1184.4	1284.5	1386.7	1406.0
17.5°	938.2	943.0	948.4	965.5	1007.8	1080.6	1189.2	1311.2	1425.2	1442.4
20°	953.7	956.4	956.9	968.7	1006.2	1079.5	1198.9	1336.9	1461.6	1484.6
22.5°	973.5	974.6	973.5	981.6	1016.3	1087.5	1211.7	1368.0	1502.3	1523.7
25°	1066.1	1045.8	1020.1	1004.6	1033.5	1103.0	1231.0	1409.7	1546.7	1567.6
27.5°	1353.5	1295.2	1203.1	1099.8	1068.8	1125.5	1257.7	1452.0	1591.7	1610.4
30°	1820.2	1743.7	1587.4	1354.6	1182.3	1172.6	1292.5	1494.3	1639.3	1659.7
32.5°	2288.0	2269.3	2088.9	1766.7	1437.6	1277.5	1350.3	1551.5	1702.5	1718.5
35°	2761.1	2723.1	2575.4	2256.9	1830.9	1491.1	1446.6	1626.5	1785.4	1803.6
37.5°	3123.4	3100.4	3008.9	2746.7	2297.6	1820.8	1611.5	1742.6	1905.9	1926.2
40°	3443.5	3432.8	3401.7	3228.9	2819.4	2252.1	1867.9	1922.4	2072.8	2096.9
42.5°	3695.0	3720.2	3737.8	3689.7	3357.3	2744.5	2212.5	2175.1	2305.6	2330.3
45°	3952.5	3961.0	4032.2	4101.8	3891.4	3259.4	2601.1	2471.0	2595.2	2625.7
47.5°	4117.8	4152.1	4277.3	4399.9	4340.5	3770.0	3018.5	2820.5	2930.8	2988.0
50°	4130.1	4194.9	4367.2	4580.8	4667.5	4255.9	3472.4	3218.7	3335.9	3399.1
52.5°	3925.2	4025.8	4292.8	4605.4	4844.1	4667.5	3941.8	3616.9	3767.3	3849.7
55°	3009.4	3141.1	4012.9	4471.6	4851.1	4979.5	4398.8	4031.7	4247.9	4341.0
57.5°	2622.0	2688.3	3155.0	4239.3	4722.1	5105.3	4812.0	4426.6	4770.8	4886.4
60°	2181.5	2268.7	2646.0	3859.3	4547.1	5117.6	5177.0	4936.2	5337.6	5467.6
62.5°	1482.5	1577.2	1952.4	3206.4	4307.8	5111.7	5476.2	5460.7	5967.5	6107.2
65°	918.4	977.8	1225.1	2618.2	3973.3	5118.1	5789.3	6097.5	6632.2	6774.0
67.5°	725.7	753.0	882.0	2010.2	3396.9	4973.6	6101.8	6696.4	7257.9	7370.3
70°	487.6	504.2	641.7	1347.6	2527.2	4306.8	6095.9	6997.2	7580.1	7636.3
72.5°	256.9	269.7	375.2	624.0	1526.4	3061.4	5138.5	6637.6	7259.5	7174.9
75°	128.4	149.9	252.6	316.8	651.9	1707.3	3190.9	5233.2	5713.8	5386.3
77.5°	97.4	117.7	208.7	208.7	226.9	574.8	1351.4	2854.2	2632.7	2192.2
80°	62.1	80.3	182.5	157.9	94.7	146.1	352.2	799.6	559.3	425.5
82.5°	36.4	52.4	152.0	104.4	53.0	54.1	99.5	170.2	145.0	112.9
85°	14.5	34.3	104.4	41.2	20.9	13.4	30.0	36.4	30.0	22.5
87.5°	0.0	8.0	18.2	0.0	1.6	1.1	2.1	2.7	2.7	2.1
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°
1321.9	0°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
1323.0	2.5°	1327.8	1328.9	1332.1	1332.7	1325.2	1315.5	1311.8	1310.2	1303.8	1303.2
1331.6	5°	1343.9	1348.7	1343.9	1330.0	1296.8	1250.2	1214.9	1186.0	1159.8	1151.8
1361.0	7.5°	1376.0	1380.8	1366.4	1311.8	1228.3	1135.7	1052.2	993.3	940.3	920.5
1396.9	10°	1422.0	1428.5	1383.0	1272.7	1125.0	976.2	834.9	735.4	657.8	626.2
1445.6	12.5°	1479.8	1482.5	1392.1	1213.3	990.7	778.2	578.0	471.5	402.5	376.8
1504.5	15°	1543.5	1539.8	1393.1	1132.5	807.6	550.2	377.3	309.9	282.1	273.5
1563.3	17.5°	1610.4	1594.9	1371.7	1015.8	606.9	376.2	279.9	263.9	259.0	256.9
1621.7	20°	1676.3	1641.5	1332.7	863.3	435.7	281.0	254.2	249.4	246.7	245.7
1680.5	22.5°	1736.2	1676.8	1265.8	686.1	316.3	248.3	240.3	236.0	231.2	229.1
1737.8	25°	1794.5	1697.1	1171.6	520.8	253.2	232.3	225.9	217.8	211.4	208.7
1799.3	27.5°	1851.3	1710.0	1053.8	385.3	225.9	217.3	205.5	194.3	189.5	188.4
1865.2	30°	1911.7	1714.2	920.0	287.4	209.3	198.6	181.4	168.6	165.9	166.4
1954.0	32.5°	1985.6	1720.7	785.1	235.5	195.3	176.1	155.7	142.4	140.2	142.4
2083.5	35°	2073.9	1733.5	655.1	216.8	183.0	153.1	131.1	119.9	117.7	119.3
2249.5	37.5°	2193.8	1754.4	533.6	213.0	172.9	133.8	110.3	101.2	101.2	101.7
2452.8	40°	2353.3	1810.1	424.9	210.3	167.5	119.3	93.1	89.4	91.0	92.1
2711.9	42.5°	2547.6	1928.3	351.6	207.1	161.6	112.9	84.6	83.0	85.6	86.7
3022.3	45°	2765.4	2078.2	325.9	201.8	156.3	117.2	80.8	78.7	81.9	82.4
3370.2	47.5°	2990.7	2224.8	322.7	195.9	150.9	123.6	79.7	74.9	78.7	79.2
3741.6	50°	3218.7	2320.6	325.9	186.8	142.4	123.6	80.3	71.2	74.4	76.0
4126.9	52.5°	3448.3	2364.5	323.8	167.0	127.4	116.1	80.3	68.0	71.2	72.3
4543.3	55°	3670.9	2356.0	291.1	137.5	108.1	102.8	78.1	65.3	67.4	68.0
4936.7	57.5°	3847.0	2236.6	230.7	107.0	87.8	85.6	71.2	62.1	63.7	63.2
5297.4	60°	3939.1	1974.4	164.8	82.4	69.0	67.4	62.6	57.8	58.9	56.2
5603.0	62.5°	3940.2	1627.5	110.3	65.3	55.1	53.5	53.5	51.9	50.8	45.5
5839.6	65°	3856.1	1242.7	73.3	51.9	44.4	41.7	45.0	44.4	40.7	33.2
5911.8	67.5°	3665.6	814.6	55.7	40.7	34.3	32.6	35.9	37.5	34.8	27.8
5648.5	70°	3273.8	474.2	46.0	31.6	25.7	24.1	28.9	32.1	28.9	22.5
4828.0	72.5°	2719.4	255.8	37.5	23.5	17.7	16.1	23.0	26.2	23.0	16.6
3097.7	75°	1764.6	137.0	28.9	15.5	9.1	10.2	17.1	19.3	16.1	10.7
909.3	77.5°	592.5	60.5	18.2	7.5	4.3	4.3	10.2	11.8	7.5	3.7
165.4	80°	132.2	25.2	7.5	3.2	1.6	1.6	2.1	2.1	1.1	0.0
50.8	82.5°	43.4	10.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
12.8	85°	16.6	3.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	6.4	0.5	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>
1321.9
1304.3
1146.9
912.5
612.8
368.8
273.5
256.4
244.6
228.5
207.7
187.3
166.4
141.8
118.8
101.2
92.1
86.7
83.0
79.7
76.5
72.3
68.0
63.2
55.7
43.9
32.1
27.3
21.4
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