

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: P939298

Luminaire Tested: **GALN-SB1D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6702 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

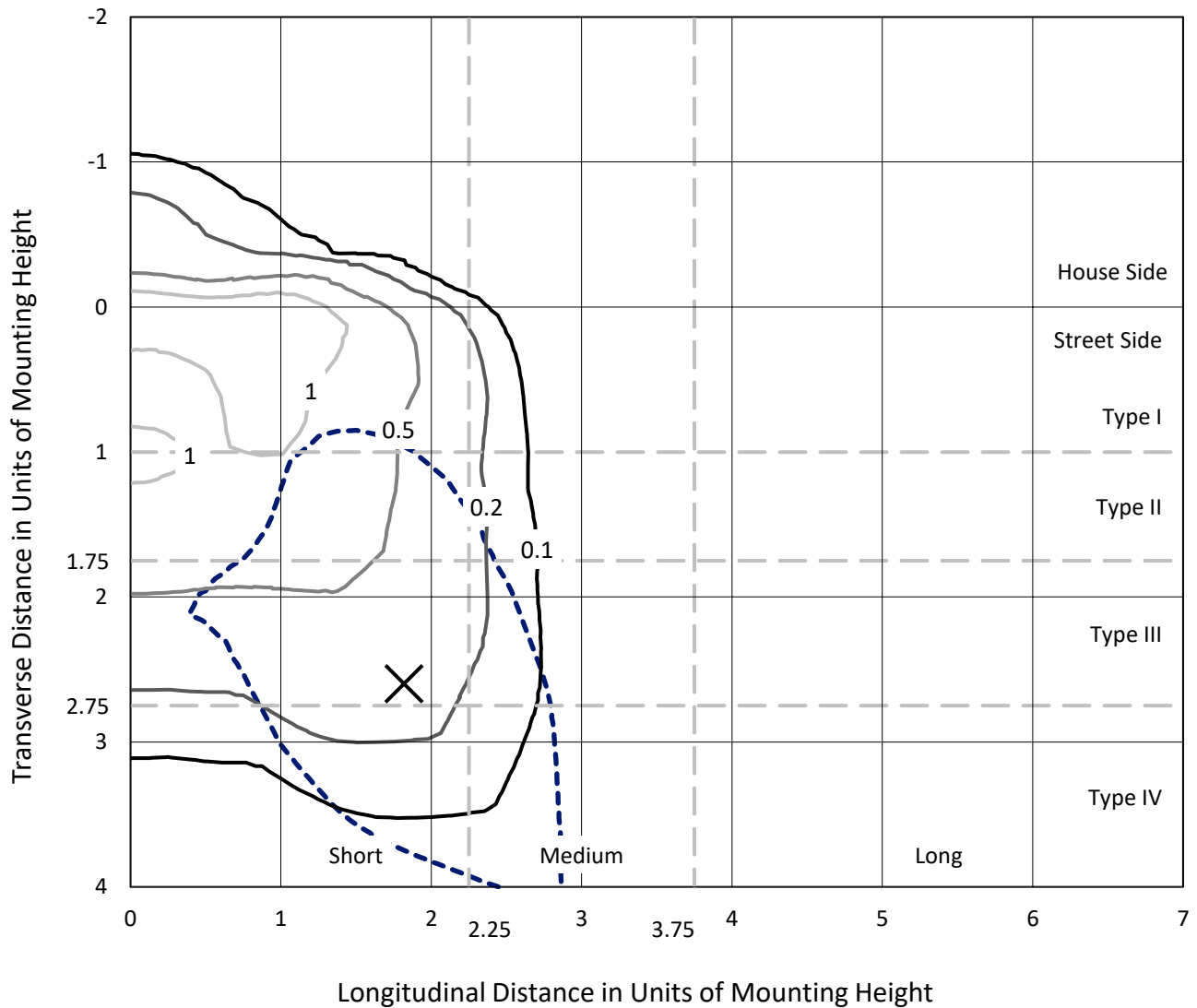
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

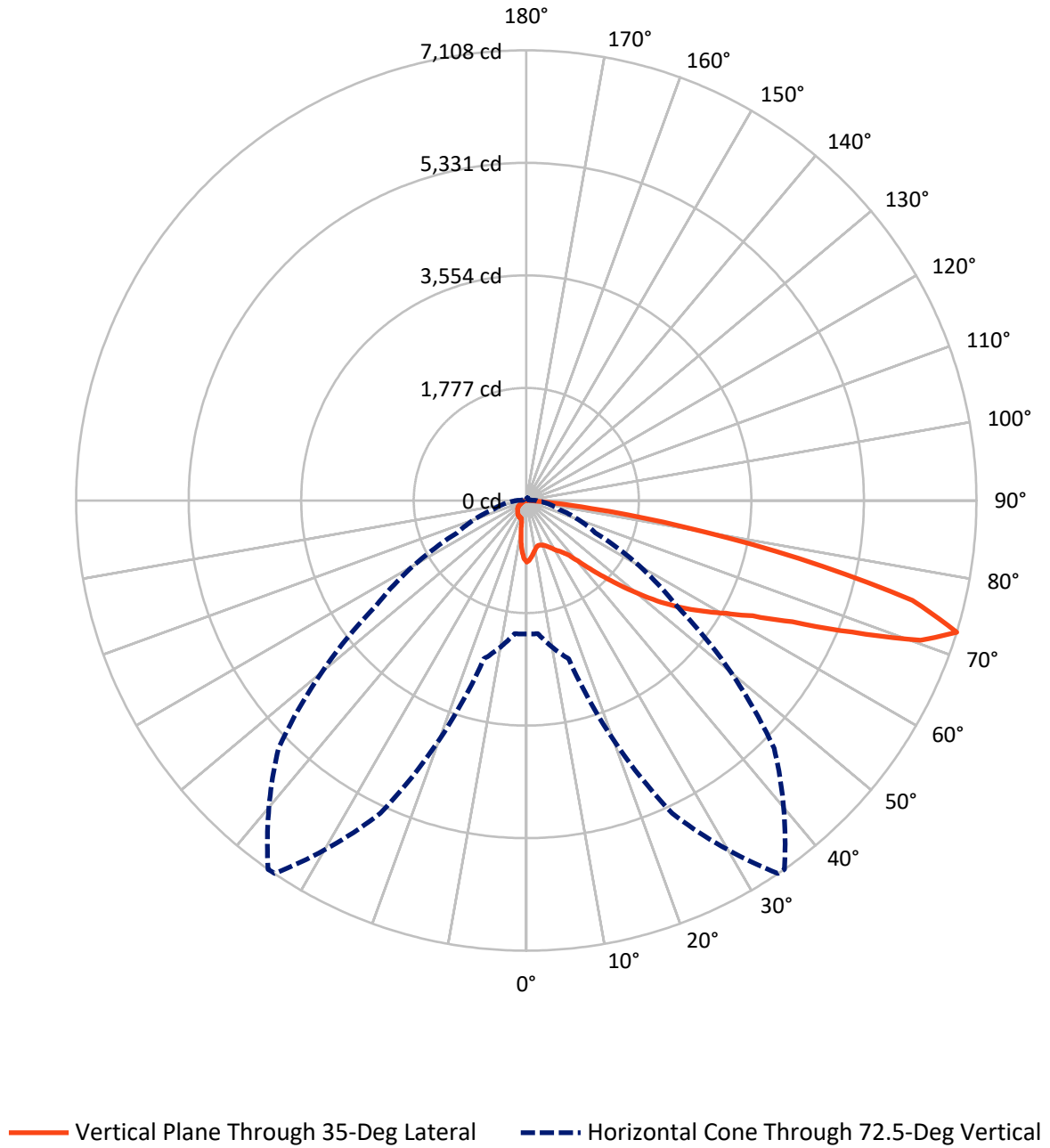
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	754.3	0.0	754.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	5947.7	0.0	5947.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	6702.0	0.0	6702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.2
10°-20°	186.7	2.8
20°-30°	303.3	4.5
30°-40°	506.1	7.6
40°-50°	957.6	14.3
50°-60°	1521.6	22.7
60°-70°	1882.3	28.1
70°-80°	1170.0	17.5
80°-90°	94.6	1.4
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°	6702.0	100.0
0°-180°	6702.0	100.0

Coefficient of Utilization



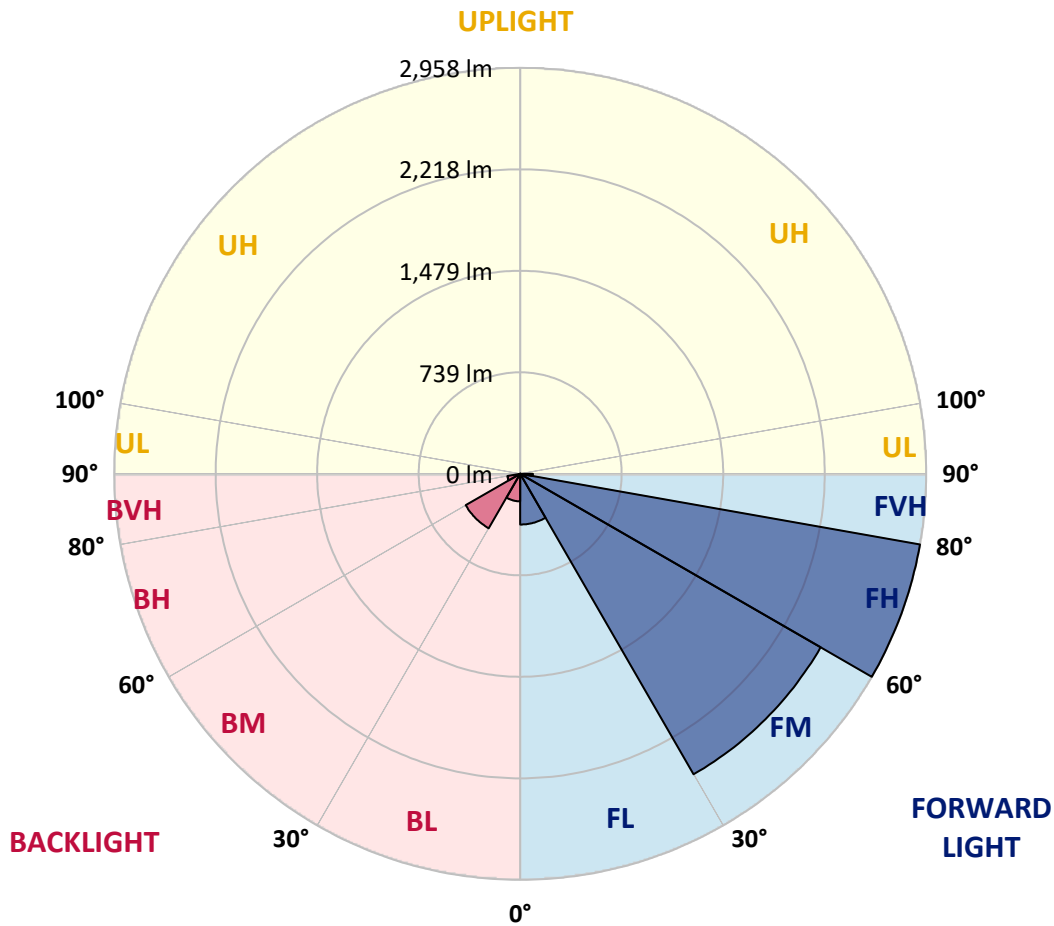
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.5	5.5			
FM	(30°-60°)	2527.3	37.7			
FH	(60°-80°)	2957.7	44.1			G2/5000
FVH	(80°-90°)	93.3	1.4			G1/100
BL	(0°-30°)	200.4	3.0	B1/500		
BM	(30°-60°)	457.9	6.8	B1/1000		
BH	(60°-80°)	94.6	1.4	B0/110		G0/110
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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3
2.5°	928.1	936.0	937.5	939.9	939.9	942.9	947.8	954.6	965.9	971.8
5°	855.5	861.3	868.7	874.6	885.9	887.4	906.5	925.2	951.2	970.9
7.5°	782.3	789.2	799.0	813.2	828.0	832.4	861.3	892.8	934.0	970.9
10°	730.7	731.2	740.0	754.3	777.9	783.3	818.6	863.3	914.9	965.0
12.5°	701.7	705.2	709.1	719.9	742.5	745.9	783.8	836.3	895.7	961.5
15°	701.7	704.2	706.7	712.1	730.2	733.2	766.6	819.1	885.9	963.0
17.5°	709.1	713.0	711.1	717.5	736.6	738.6	768.0	814.2	885.4	972.3
20°	726.8	729.7	725.8	729.7	748.9	752.8	783.3	823.5	893.8	988.5
22.5°	754.8	756.3	746.9	749.9	769.5	774.4	809.8	850.0	913.9	1014.6
25°	790.1	793.1	778.8	782.3	800.9	806.8	847.6	889.8	945.8	1050.4
27.5°	830.9	832.4	820.1	819.6	843.7	852.0	893.3	938.9	988.5	1095.6
30°	877.5	882.0	870.2	868.2	898.7	905.5	946.3	999.3	1051.4	1163.4
32.5°	914.4	917.8	910.9	915.9	946.8	952.2	1010.6	1084.8	1150.1	1259.6
35°	967.4	969.4	953.7	962.5	997.9	1011.6	1098.5	1204.6	1274.3	1380.4
37.5°	1159.4	1159.4	1092.6	1048.9	1082.8	1095.1	1218.8	1355.4	1427.6	1542.5
40°	1425.1	1420.7	1323.0	1233.6	1229.2	1253.2	1390.2	1545.4	1625.5	1736.9
42.5°	1708.4	1701.6	1568.5	1480.1	1465.4	1473.7	1588.1	1779.7	1861.2	1974.1
45°	1959.9	1957.9	1836.1	1717.3	1690.8	1717.3	1835.1	2053.7	2112.1	2230.9
47.5°	2170.5	2170.5	2081.7	2004.1	1990.3	2006.0	2169.6	2357.6	2352.2	2504.5
50°	2413.1	2411.2	2326.7	2293.3	2307.6	2329.7	2554.6	2677.8	2600.7	2773.1
52.5°	2583.0	2594.8	2565.9	2560.5	2633.1	2671.4	2945.5	2991.1	2823.2	3028.0
55°	2717.6	2731.4	2764.7	2802.6	2942.5	2992.6	3324.1	3288.2	3009.3	3248.9
57.5°	2908.1	2888.5	2940.1	3014.7	3241.1	3301.5	3690.9	3568.6	3159.1	3428.2
60°	3139.4	3142.4	3151.2	3245.5	3539.2	3616.8	4052.3	3833.8	3255.3	3538.2
62.5°	3417.4	3421.8	3440.0	3584.8	3939.4	4012.6	4437.3	4050.9	3299.5	3507.3
65°	3398.2	3416.9	3619.7	4115.2	4547.8	4620.0	4886.7	4203.1	3232.7	3224.4
67.5°	3095.7	3126.2	3465.5	4748.7	5465.2	5545.7	5429.8	4233.1	2944.5	2507.4
70°	2698.9	2709.7	3117.8	5318.3	6527.4	6608.9	5916.0	3903.5	2234.4	1398.6
72.5°	2107.7	2110.1	2588.9	5450.4	7103.9	7108.3	5534.4	2897.8	1201.7	537.2
75°	1505.6	1490.9	1734.0	4420.2	6249.9	6300.0	4149.1	1359.3	459.2	253.9
77.5°	807.3	823.5	981.2	2621.4	4317.5	4403.0	2263.9	391.9	233.8	172.9
80°	249.5	263.2	402.2	1200.2	2445.5	2497.1	839.2	174.3	163.0	123.3
82.5°	78.6	81.5	187.6	504.3	1015.1	1038.6	243.1	98.7	111.5	81.5
85°	22.6	23.1	83.5	188.1	250.9	255.8	68.3	38.3	63.8	50.6
87.5°	2.5	7.9	31.4	31.4	22.1	21.6	7.4	8.3	18.2	6.4
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°
971.3	0°	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3	971.3
975.8	2.5°	973.3	973.8	967.4	956.6	944.8	935.0	922.7	912.9	906.0	904.1
984.6	5°	980.2	976.7	958.6	925.7	886.4	852.5	814.7	784.7	765.1	756.7
993.9	7.5°	990.5	980.7	940.9	876.1	800.9	734.2	666.4	613.8	580.4	563.8
1002.8	10°	999.3	979.7	911.4	804.4	689.5	588.3	497.0	433.6	398.3	381.6
1013.1	12.5°	1007.7	979.2	873.1	719.4	563.8	440.0	355.0	323.6	313.8	310.4
1029.8	15°	1023.4	980.7	825.0	622.2	438.5	332.5	301.5	301.0	303.0	302.0
1055.3	17.5°	1045.0	982.1	770.5	519.1	338.4	293.2	291.7	296.1	299.1	297.6
1087.2	20°	1073.0	988.0	712.5	416.9	290.7	283.3	286.8	290.7	293.2	290.7
1130.0	22.5°	1112.3	998.4	649.2	334.9	275.5	277.5	280.4	284.8	287.3	283.8
1184.5	25°	1160.4	1014.6	586.8	291.2	268.1	270.6	275.0	279.9	282.9	279.4
1253.2	27.5°	1222.8	1040.6	529.4	281.4	260.8	262.2	268.6	276.0	279.9	275.5
1350.9	30°	1313.1	1083.3	479.8	285.8	256.3	252.9	261.7	272.1	276.5	272.5
1484.0	32.5°	1433.0	1143.7	449.3	292.7	254.4	242.1	250.4	263.7	271.1	268.6
1657.9	35°	1590.1	1235.5	437.5	300.5	252.9	230.8	236.7	250.9	263.7	266.2
1876.9	37.5°	1780.6	1363.2	441.0	304.0	248.5	221.5	224.4	236.7	253.4	261.3
2123.4	40°	1997.2	1512.0	460.6	300.5	243.6	213.6	214.1	223.4	238.2	250.0
2388.6	42.5°	2220.6	1685.9	497.0	287.8	239.2	206.7	205.3	211.7	221.5	229.8
2653.3	45°	2433.3	1864.6	532.8	270.1	233.8	199.9	196.4	198.9	200.8	204.3
2911.1	47.5°	2618.9	1990.3	522.5	253.9	226.4	192.0	186.1	185.1	179.2	178.8
3141.4	50°	2747.1	2017.8	464.1	237.7	215.6	183.2	173.8	167.9	157.6	152.7
3313.8	52.5°	2787.8	1909.3	379.1	221.5	197.9	171.4	158.1	148.8	136.0	131.6
3413.0	55°	2733.8	1696.7	303.0	201.8	173.3	155.7	140.9	128.7	118.3	112.9
3423.8	57.5°	2601.7	1426.1	239.6	178.8	147.3	138.0	123.3	111.0	102.1	96.7
3303.9	60°	2382.7	1132.4	189.6	151.3	125.7	118.8	103.6	95.8	87.9	81.5
2994.6	62.5°	2050.2	808.3	148.8	119.8	105.1	97.2	88.4	82.5	73.2	64.3
2438.2	65°	1599.9	494.5	114.9	87.9	84.5	80.5	75.1	69.7	58.4	49.6
1590.6	67.5°	1009.2	234.2	82.0	66.3	66.8	64.8	62.4	57.9	49.6	41.7
712.5	70°	444.4	113.4	54.0	50.6	49.6	49.6	51.6	50.1	42.2	34.9
247.5	72.5°	151.3	60.9	40.3	38.3	35.8	35.4	43.2	41.7	33.9	27.0
123.3	75°	79.1	40.8	29.5	27.5	21.6	26.0	34.4	32.4	24.1	17.7
81.5	77.5°	51.6	29.0	20.1	17.7	12.3	17.2	25.5	22.6	14.2	8.8
53.5	80°	32.4	19.2	11.8	8.3	5.9	9.3	13.8	9.8	5.4	2.0
31.4	82.5°	17.2	9.8	4.4	2.9	2.5	2.9	3.4	2.5	1.0	0.0
16.2	85°	6.9	3.4	1.5	1.0	0.5	0.0	1.0	0.5	0.0	0.0
2.9	87.5°	2.5	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>
971.3
907.5
759.7
566.2
382.1
309.4
301.5
297.1
290.2
283.3
278.9
275.5
272.1
268.6
266.2
263.2
253.9
233.3
206.3
178.3
153.2
131.1
112.9
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