

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: P949402

Luminaire Tested: **GALN-SB4A-930-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9558 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

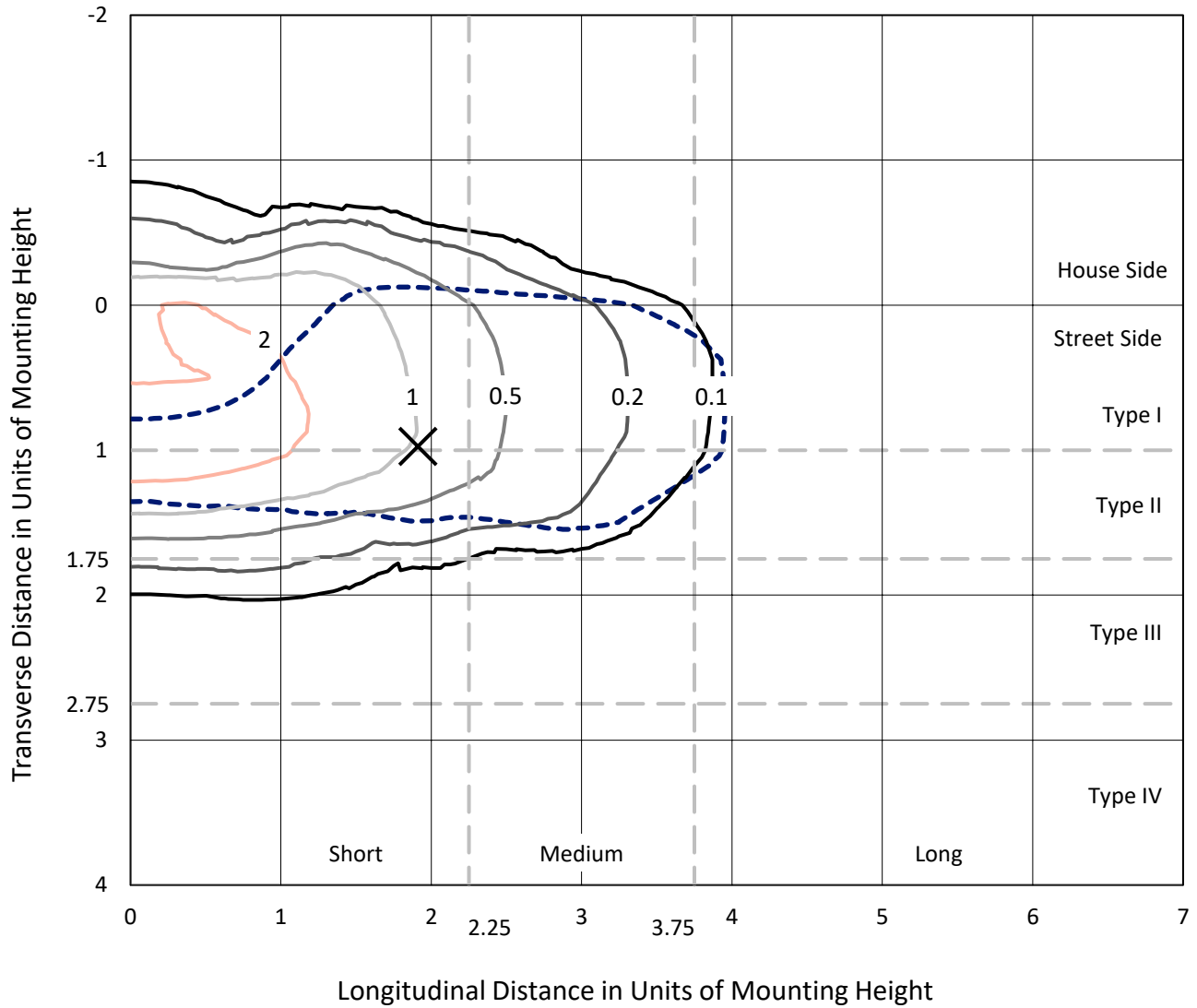
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

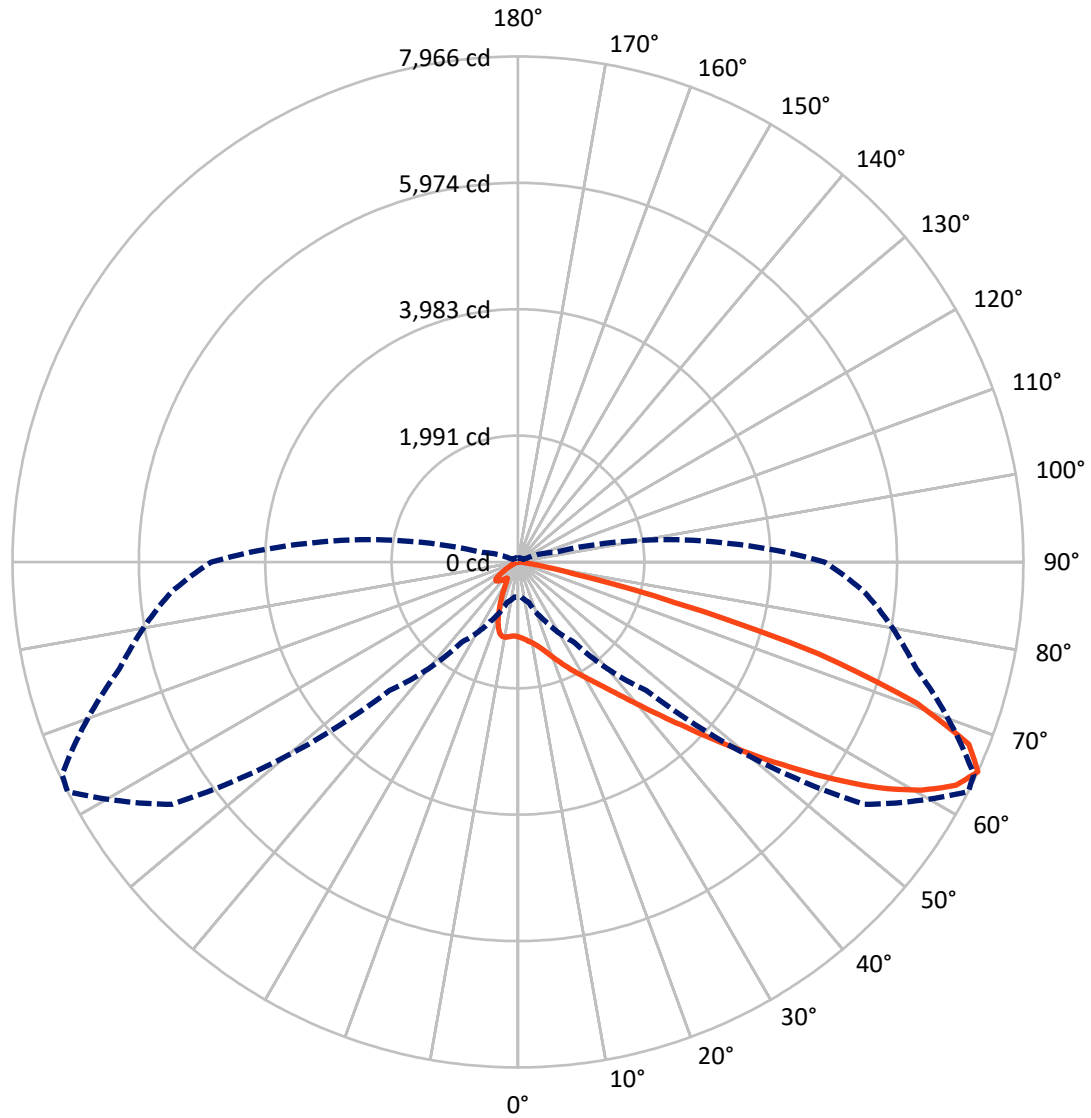
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1405.0	0.0	1405.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8153.1	0.0	8153.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	9558.0	0.0	9558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	1.2
10°-20°	308.4	3.2
20°-30°	537.0	5.6
30°-40°	967.8	10.1
40°-50°	1919.5	20.1
50°-60°	2614.7	27.4
60°-70°	2087.1	21.8
70°-80°	944.4	9.9
80°-90°	67.9	0.7
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°	9558.0	100.0
0°-180°	9558.0	100.0

Coefficient of Utilization



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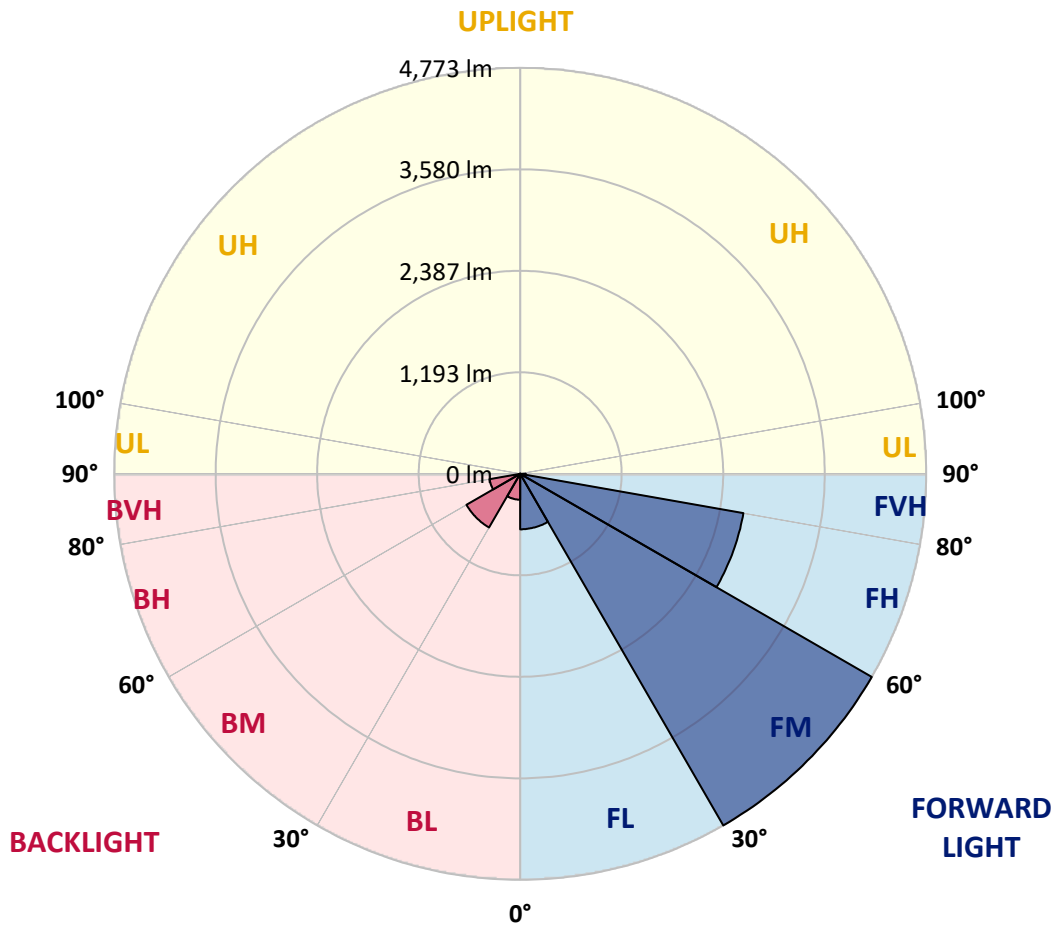
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.4	6.8			
FM (30°-60°)	4773.0	49.9			
FH (60°-80°)	2664.7	27.9			G2/5000
FVH (80°-90°)	62.8	0.7			G1/100
BL (0°-30°)	304.1	3.2	B1/500		
BM (30°-60°)	729.1	7.6	B1/1000		
BH (60°-80°)	366.8	3.8	B1/500		G1/500
BVH (80°-90°)	5.0	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6
2.5°	1207.3	1204.0	1208.6	1206.6	1205.3	1202.7	1201.3	1200.0	1197.4	1195.4
5°	1210.5	1208.6	1213.2	1217.1	1221.1	1225.0	1227.0	1229.6	1227.0	1221.7
7.5°	1182.9	1181.6	1191.5	1203.3	1221.1	1236.2	1252.6	1261.8	1262.5	1260.5
10°	1181.0	1177.7	1187.5	1202.0	1225.0	1252.0	1280.9	1300.6	1303.3	1311.8
12.5°	1211.9	1208.6	1222.4	1238.2	1261.8	1290.1	1325.6	1353.2	1357.2	1369.0
15°	1263.8	1259.2	1275.0	1295.4	1325.6	1357.8	1395.3	1420.3	1423.6	1438.1
17.5°	1324.3	1319.7	1338.1	1359.8	1392.7	1436.7	1480.1	1507.8	1511.7	1520.9
20°	1401.9	1396.0	1410.4	1430.2	1465.0	1517.6	1569.6	1609.0	1608.4	1608.4
22.5°	1492.0	1482.8	1495.3	1511.0	1543.9	1607.7	1676.7	1723.4	1723.4	1705.0
25°	1588.6	1579.4	1593.2	1607.7	1636.6	1709.0	1789.8	1847.7	1850.3	1818.8
27.5°	1709.6	1697.8	1708.3	1725.4	1742.5	1816.1	1912.1	1979.2	1980.5	1931.9
30°	1942.4	1908.9	1876.0	1857.6	1865.5	1938.4	2041.0	2115.3	2121.9	2054.8
32.5°	2368.5	2361.9	2246.2	2094.9	2016.0	2070.0	2185.0	2274.5	2278.4	2192.3
35°	3030.6	3022.7	2836.7	2548.6	2291.5	2246.2	2359.9	2465.8	2463.2	2365.9
37.5°	3821.0	3813.8	3568.5	3183.2	2767.0	2512.5	2585.5	2696.6	2713.0	2585.5
40°	4496.3	4469.3	4314.2	3942.6	3398.2	2954.4	2906.4	2980.0	2997.1	2845.9
42.5°	5007.9	4984.9	4906.0	4673.8	4162.3	3608.0	3284.4	3312.7	3331.8	3150.3
45°	5272.9	5267.6	5299.2	5277.5	4940.8	4410.2	3824.9	3707.2	3714.5	3487.6
47.5°	5310.3	5307.7	5451.7	5655.6	5610.2	5314.9	4518.7	4199.1	4173.4	3868.3
50°	5089.4	5084.1	5360.3	5742.4	6057.3	6075.1	5306.4	4753.4	4696.9	4262.2
52.5°	4383.9	4382.5	4836.3	5472.1	6214.5	6740.5	6084.9	5362.3	5267.6	4679.1
55°	3373.2	3397.5	3917.7	4669.2	5927.8	7060.7	6783.9	6038.2	5892.9	5098.6
57.5°	2389.5	2425.0	2939.2	3608.6	5038.8	6871.4	7256.7	6715.5	6559.0	5516.8
60°	1283.5	1315.1	1830.0	2628.9	3748.7	6165.2	7505.9	7303.4	7155.4	5914.0
62.5°	764.7	775.2	988.3	1697.1	2535.5	4710.0	7400.0	7751.2	7629.5	6247.3
65°	549.1	551.0	658.2	1036.3	1539.3	2861.6	6657.7	7965.5	7928.0	6498.5
67.5°	462.3	460.9	505.7	688.5	1048.8	1433.5	5102.6	7662.4	7821.5	6657.7
70°	396.5	398.5	451.1	504.3	788.4	811.4	2536.8	6671.5	7010.8	6699.7
72.5°	295.2	301.8	350.5	459.6	595.1	558.3	875.9	4946.7	5560.2	6312.4
75°	208.4	211.7	246.6	386.6	443.8	406.4	447.1	2557.2	3343.6	4839.5
77.5°	160.4	166.4	186.7	270.3	437.3	285.4	273.5	885.1	1359.8	2923.5
80°	86.8	97.3	134.8	195.3	307.1	201.9	135.5	352.4	460.9	1367.0
82.5°	44.7	50.0	94.0	140.7	174.9	176.2	67.1	146.6	190.0	422.1
85°	17.8	21.7	63.1	77.6	90.1	86.8	30.2	59.2	68.4	117.0
87.5°	3.9	6.6	23.0	17.8	17.1	18.4	7.2	13.8	13.2	13.8
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°
1179.6	0°	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6	1179.6
1187.5	2.5°	1186.9	1184.2	1177.0	1169.1	1159.9	1154.7	1151.4	1150.7	1146.1	1142.8
1213.8	5°	1206.6	1204.0	1190.2	1173.7	1156.0	1142.2	1129.0	1117.2	1100.1	1096.8
1252.0	7.5°	1246.0	1238.8	1216.5	1194.1	1160.6	1120.5	1071.8	1015.9	965.9	950.8
1302.6	10°	1294.7	1284.8	1256.6	1217.1	1142.8	1033.7	916.0	806.8	720.0	695.7
1362.4	12.5°	1349.9	1341.4	1303.9	1230.9	1068.5	870.6	690.4	555.0	470.8	449.8
1426.2	15°	1415.7	1403.2	1351.3	1209.9	935.7	661.5	474.1	393.9	363.6	359.7
1499.2	17.5°	1485.4	1465.0	1393.3	1134.3	756.8	470.1	366.3	343.2	330.1	326.1
1572.9	20°	1549.2	1522.9	1418.3	1019.9	565.5	366.3	328.1	313.0	301.2	296.6
1646.5	22.5°	1613.0	1575.5	1418.3	864.0	424.1	324.8	301.2	287.3	273.5	267.6
1725.4	25°	1679.4	1629.4	1393.3	690.4	341.3	297.9	275.5	260.4	248.6	241.3
1800.4	27.5°	1743.8	1674.8	1336.1	526.0	303.8	274.2	251.8	237.4	226.2	220.9
1881.9	30°	1805.0	1719.5	1255.9	399.1	279.5	251.2	230.1	217.6	206.5	201.2
1987.8	32.5°	1887.8	1776.0	1170.4	327.5	258.4	229.5	210.4	198.6	188.7	184.8
2125.2	35°	2002.9	1859.5	1096.8	321.5	240.7	211.7	192.7	181.5	171.6	168.3
2302.7	37.5°	2166.0	1994.3	1058.0	361.0	226.2	195.9	178.2	166.4	157.2	154.5
2528.3	40°	2367.2	2177.1	1079.0	400.4	216.3	182.1	165.0	153.2	145.3	142.0
2787.3	42.5°	2605.9	2402.7	1195.4	430.7	209.8	170.3	152.6	139.4	134.1	132.8
3081.3	45°	2880.1	2650.6	1373.6	462.9	199.2	159.1	140.1	130.2	126.2	125.6
3400.8	47.5°	3191.7	2922.8	1580.1	503.0	188.7	148.6	130.2	123.6	120.3	119.0
3734.2	50°	3500.8	3197.0	1792.5	525.4	180.2	138.7	122.3	117.0	114.4	113.8
4086.6	52.5°	3824.3	3479.1	1964.1	504.3	172.9	130.9	115.7	111.8	109.2	108.5
4411.5	55°	4132.7	3707.2	1993.7	428.1	158.5	123.0	108.5	106.5	103.2	103.2
4740.9	57.5°	4398.3	3821.7	1784.6	314.3	144.0	111.1	101.3	99.3	96.7	96.0
5038.1	60°	4642.3	3788.8	1377.6	211.7	128.2	99.3	92.1	90.7	88.1	84.8
5296.5	62.5°	4779.7	3644.1	942.3	138.1	112.4	86.8	81.5	80.9	75.0	68.4
5487.9	65°	4831.6	3346.9	587.8	100.6	94.0	74.3	70.4	69.0	60.5	53.3
5596.4	67.5°	4786.3	2857.7	296.6	79.6	74.3	61.8	57.9	57.9	51.9	45.4
5589.8	70°	4604.8	2142.3	124.9	63.8	57.2	47.3	47.3	50.0	44.1	36.8
5299.8	72.5°	4210.9	1441.3	66.4	48.7	42.7	33.5	38.8	40.8	34.8	27.6
4337.8	75°	3347.6	879.1	46.0	36.2	27.0	23.7	29.6	30.9	23.7	18.4
2974.1	77.5°	2289.6	505.0	30.9	23.0	17.1	13.8	20.4	19.1	12.5	8.5
1146.8	80°	1005.4	210.4	17.8	10.5	6.6	5.3	7.2	5.3	3.9	2.6
157.2	82.5°	117.7	49.3	6.6	3.9	2.6	1.3	0.7	0.0	0.0	0.0
48.0	85°	24.3	5.9	3.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	4.6	1.3	0.7	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>
1179.6
1146.1
1095.5
943.6
686.5
443.8
355.7
324.2
293.9
264.3
238.7
220.9
201.9
184.8
168.3
153.9
141.4
132.8
124.9
119.0
113.8
108.5
102.6
95.3
84.2
67.1
52.6
44.7
36.2
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