

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: P940906

Luminaire Tested: **GALN-SB4A-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10217 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

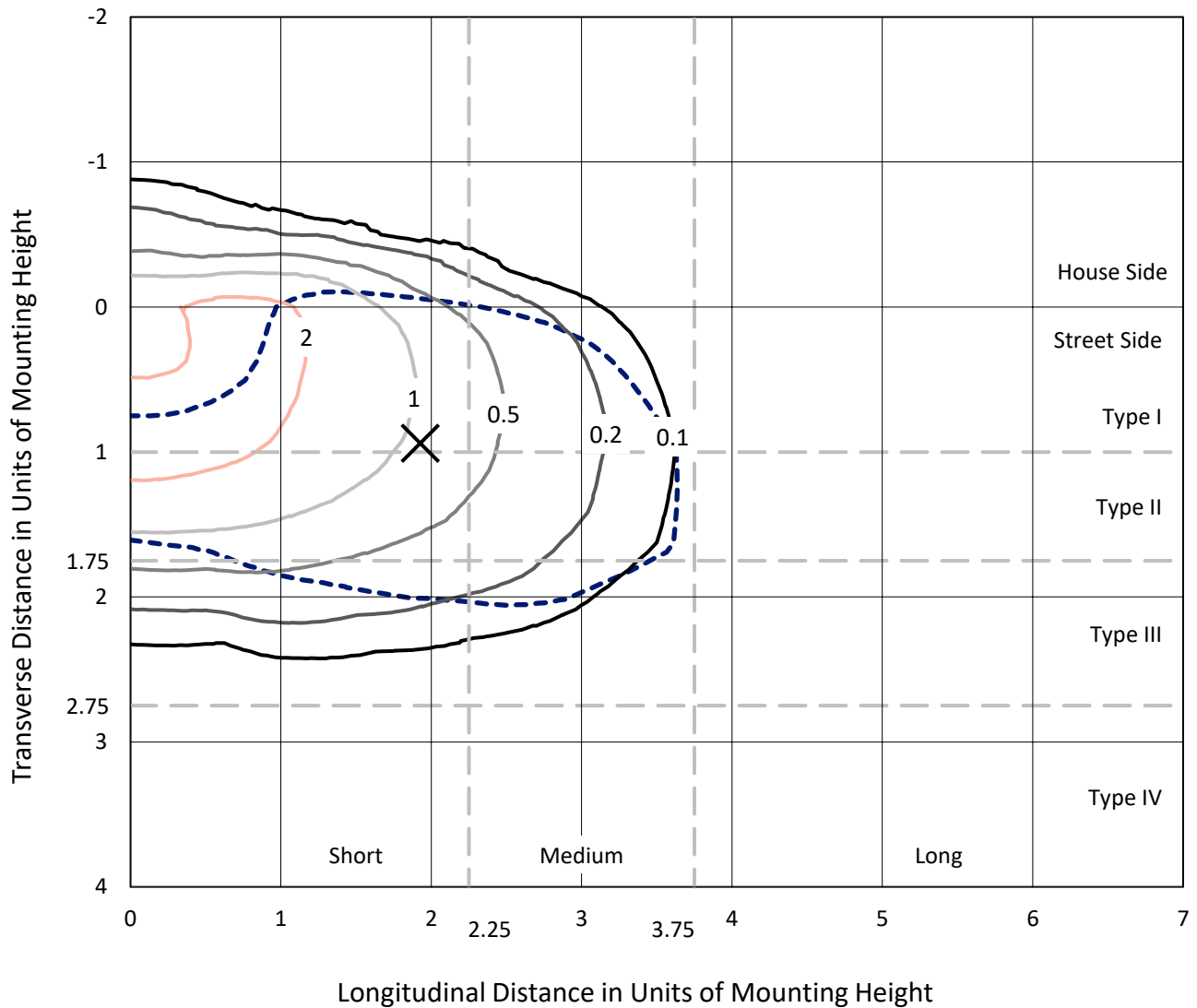
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

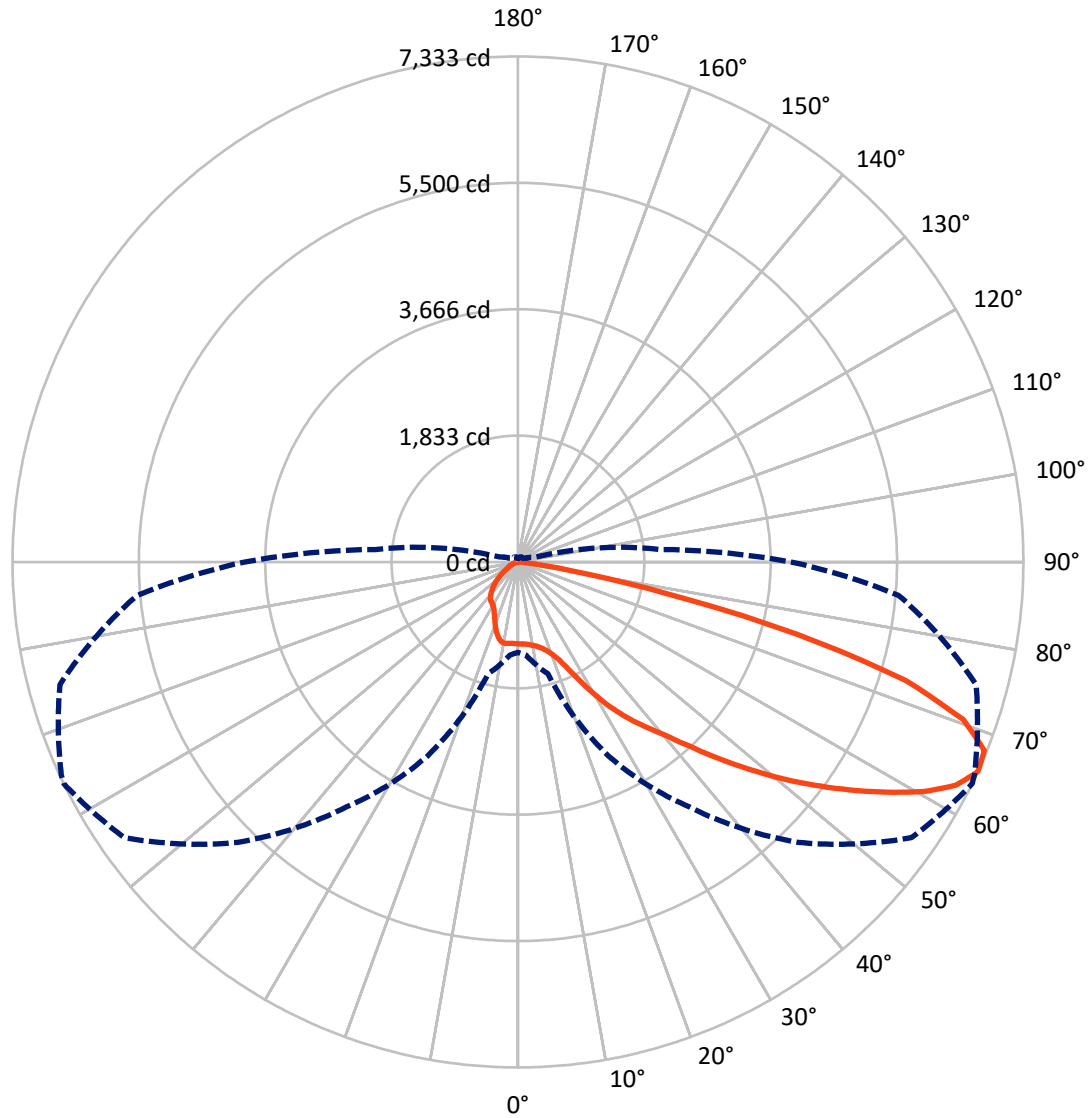
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1366.3	0.0	1366.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8850.7	0.0	8850.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	10217.0	0.0	10217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	1.1
10°-20°	297.4	2.9
20°-30°	563.5	5.5
30°-40°	1140.2	11.2
40°-50°	1942.4	19.0
50°-60°	2641.5	25.9
60°-70°	2480.5	24.3
70°-80°	993.8	9.7
80°-90°	48.1	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°	10217.0	100.0
0°-180°	10217.0	100.0

Coefficient of Utilization



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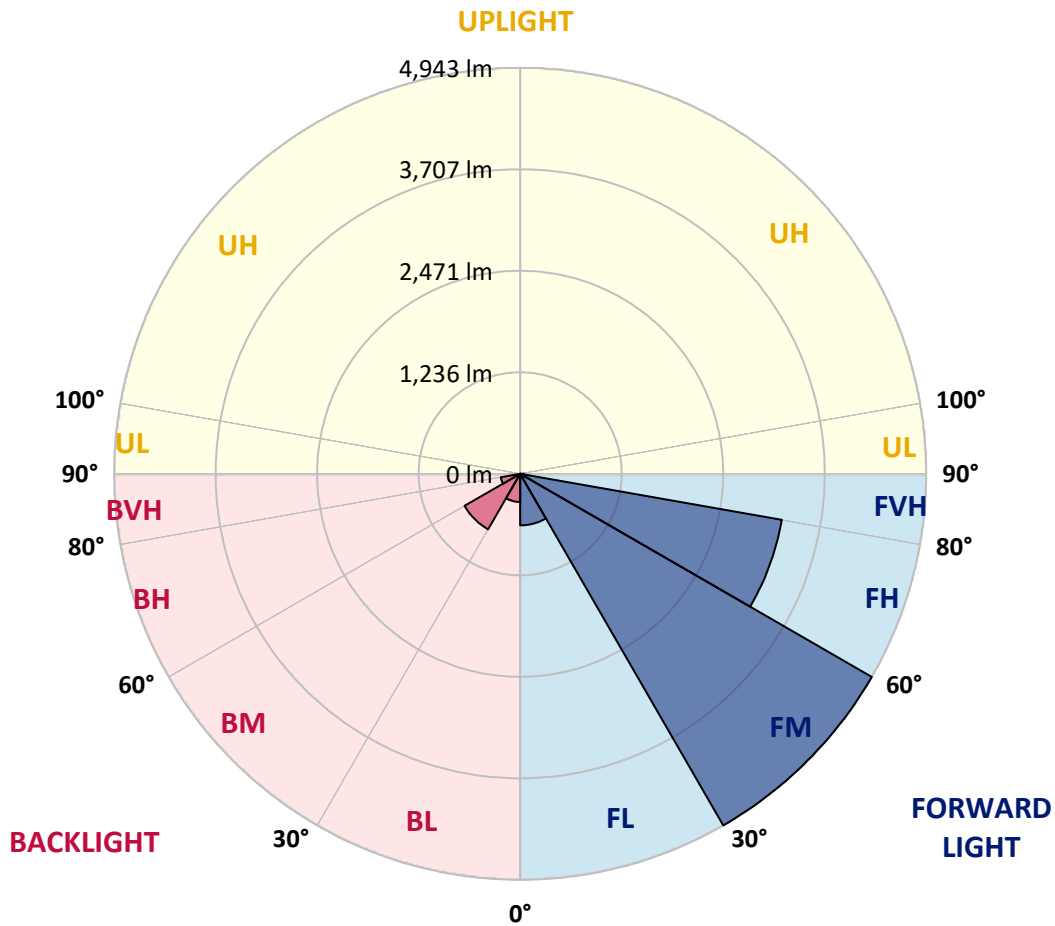
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.4	6.1			
FM (30°-60°)	4943.0	48.4			
FH (60°-80°)	3234.5	31.7			G2/5000
FVH (80°-90°)	45.8	0.4			G1/100
BL (0°-30°)	343.0	3.4	B1/500		
BM (30°-60°)	781.1	7.6	B1/1000		
BH (60°-80°)	239.8	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1184.2	1192.5	1190.4	1188.3	1187.7	1189.0	1189.7	1189.0	1189.0	1189.0
5°	1161.6	1168.5	1168.5	1173.3	1180.1	1188.3	1194.5	1197.2	1199.3	1199.3
7.5°	1118.5	1124.0	1128.1	1143.8	1160.9	1182.9	1201.4	1212.3	1219.8	1219.8
10°	1089.0	1095.9	1102.7	1119.2	1143.8	1176.7	1208.2	1234.9	1252.7	1252.7
12.5°	1087.7	1094.5	1103.4	1121.2	1150.0	1184.9	1223.3	1263.0	1289.0	1289.0
15°	1102.0	1110.3	1118.5	1140.4	1171.2	1213.7	1254.8	1302.7	1339.7	1339.7
17.5°	1131.5	1142.5	1148.6	1170.5	1203.4	1250.7	1304.8	1358.2	1401.4	1401.4
20°	1189.7	1202.7	1204.8	1222.6	1254.8	1305.5	1369.8	1436.3	1485.6	1485.6
22.5°	1310.3	1328.8	1312.3	1321.2	1350.0	1400.7	1470.5	1555.5	1611.6	1611.6
25°	1522.6	1548.6	1506.1	1491.1	1503.4	1556.1	1643.8	1750.0	1795.2	1795.2
27.5°	1939.7	1906.1	1841.8	1778.7	1741.8	1771.9	1870.5	2002.0	2045.9	2045.9
30°	2397.9	2368.5	2281.5	2141.8	2054.1	2049.3	2140.4	2287.6	2329.4	2329.4
32.5°	2856.8	2828.7	2734.2	2562.3	2410.2	2334.9	2397.9	2552.0	2578.7	2578.7
35°	3308.2	3279.4	3184.9	3008.9	2821.9	2650.7	2638.3	2805.4	2833.5	2833.5
37.5°	3762.3	3738.3	3637.6	3465.0	3280.8	3044.5	2930.1	3051.3	3078.7	3078.7
40°	4086.3	4096.5	4027.4	3893.8	3735.6	3477.4	3257.5	3288.3	3334.2	3334.2
42.5°	4364.3	4384.9	4324.6	4257.5	4165.7	3938.3	3663.0	3621.2	3645.9	3645.9
45°	4604.7	4621.9	4567.8	4552.0	4550.0	4390.4	4106.1	4006.8	4002.0	4002.0
47.5°	4693.1	4726.0	4749.3	4802.0	4904.7	4837.6	4564.3	4430.1	4392.4	4392.4
50°	4726.7	4761.6	4841.0	4994.5	5237.6	5266.4	5020.5	4864.3	4795.8	4795.8
52.5°	4681.5	4743.8	4850.6	5108.8	5461.6	5610.2	5458.2	5304.7	5193.1	5193.1
55°	4415.0	4477.3	4695.8	5107.5	5573.2	5851.3	5871.9	5754.7	5578.7	5578.7
57.5°	3853.4	3945.8	4291.7	4933.5	5571.2	6058.8	6277.3	6212.9	5960.9	5960.9
60°	3075.3	3200.6	3622.6	4547.9	5399.3	6171.2	6632.8	6667.1	6337.6	6337.6
62.5°	2145.9	2291.1	2690.4	3943.8	5006.1	6090.3	6892.4	7060.2	6674.6	6674.6
65°	1308.9	1355.5	1677.4	3103.4	4337.6	5752.0	6972.5	7308.8	6880.7	6880.7
67.5°	871.9	910.9	1003.4	2128.1	3367.1	5076.0	6780.7	7304.7	6847.2	6847.2
70°	525.3	558.9	619.2	1237.7	2182.2	4017.8	6186.9	6892.4	6398.6	6398.6
72.5°	216.4	239.0	293.8	561.0	1130.1	2550.0	4926.7	5976.0	5380.1	5380.1
75°	122.6	134.2	172.6	281.5	490.4	1188.3	2984.2	4313.0	3708.2	3708.2
77.5°	81.5	87.0	111.6	182.2	276.0	405.5	1275.3	2436.3	2025.3	2025.3
80°	54.8	59.6	76.7	121.9	179.5	174.0	406.2	991.8	695.9	695.9
82.5°	37.0	37.7	54.8	80.1	113.7	84.2	119.9	315.1	201.4	201.4
85°	21.2	20.5	40.4	46.6	50.7	34.9	36.3	98.6	84.9	84.9
87.5°	2.7	4.1	15.8	12.3	6.8	7.5	7.5	19.2	20.5	20.5
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°
1188.3	0°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
1189.7	2.5°	1189.7	1189.0	1187.0	1184.9	1180.1	1177.4	1178.8	1177.4	1176.7	1177.4
1198.6	5°	1198.6	1196.6	1191.1	1184.2	1174.6	1163.0	1155.5	1144.5	1134.2	1128.1
1222.6	7.5°	1222.6	1220.5	1213.0	1193.8	1163.0	1114.4	1069.9	1030.8	1001.4	984.2
1260.9	10°	1260.9	1257.5	1245.9	1203.4	1122.6	1016.4	928.1	854.8	806.8	784.2
1306.2	12.5°	1306.2	1302.0	1281.5	1194.5	1045.9	880.1	758.2	676.7	632.2	612.3
1358.2	15°	1359.6	1354.1	1313.7	1152.0	934.2	729.4	617.8	556.8	528.1	510.3
1424.6	17.5°	1426.0	1416.4	1337.7	1088.3	813.0	614.4	531.5	485.6	460.3	443.1
1511.6	20°	1512.3	1496.6	1356.8	1012.3	701.4	541.8	473.3	434.9	415.7	400.7
1634.9	22.5°	1632.9	1610.3	1380.1	930.1	622.6	491.8	430.1	402.1	386.3	369.2
1806.8	25°	1782.2	1755.5	1408.9	854.1	568.5	448.6	398.6	375.3	356.8	337.0
2032.2	27.5°	1991.1	1943.1	1443.1	791.8	521.9	411.6	369.9	343.8	322.6	306.2
2287.6	30°	2223.9	2145.2	1473.3	754.1	479.4	377.4	332.2	306.2	286.3	274.7
2517.1	32.5°	2444.5	2337.6	1493.1	737.7	441.1	338.4	291.1	263.0	247.9	244.5
2741.8	35°	2652.7	2511.6	1491.1	721.9	406.8	299.3	250.7	221.9	210.3	212.3
2983.5	37.5°	2892.4	2697.2	1476.7	697.3	378.8	263.7	215.8	190.4	180.1	180.8
3277.4	40°	3171.2	2911.6	1467.8	650.7	347.9	230.8	187.0	166.4	158.9	156.2
3586.9	42.5°	3468.5	3119.1	1469.2	597.9	309.6	201.4	167.1	150.0	143.1	141.1
3931.5	45°	3767.1	3317.1	1471.2	543.1	269.2	178.8	152.7	138.4	134.2	131.5
4280.8	47.5°	4047.9	3485.6	1432.9	484.2	229.4	161.6	141.1	131.5	128.1	124.7
4631.5	50°	4309.5	3597.9	1340.4	415.7	197.9	147.9	132.2	125.3	121.9	118.5
4949.3	52.5°	4513.0	3615.7	1187.7	345.2	176.0	137.7	126.7	120.5	116.4	113.0
5206.1	55°	4603.4	3504.1	970.5	279.4	158.9	128.8	121.2	115.1	110.3	106.8
5408.2	57.5°	4580.1	3269.1	756.8	224.7	142.5	119.9	114.4	110.3	104.8	99.3
5571.9	60°	4465.7	2954.8	570.5	187.0	127.4	110.3	106.8	103.4	95.9	87.7
5634.9	62.5°	4267.8	2559.6	406.8	154.8	111.0	99.3	97.9	95.2	84.2	69.2
5541.7	65°	3965.0	2079.4	274.0	128.8	95.2	87.0	87.7	82.9	68.5	51.4
5200.6	67.5°	3522.6	1520.5	175.3	105.5	79.5	72.6	73.3	70.5	58.2	43.8
4554.1	70°	2958.9	1006.8	114.4	80.1	63.7	56.2	60.3	61.0	49.3	35.6
3495.2	72.5°	2169.2	594.5	80.1	59.6	46.6	39.0	49.3	50.7	39.7	26.7
2102.7	75°	1236.3	282.2	60.3	43.2	28.8	27.4	38.4	38.4	27.4	17.8
910.3	77.5°	519.2	117.8	42.5	28.1	16.4	15.8	26.0	24.0	13.7	8.2
221.9	80°	150.0	52.7	22.6	13.7	6.8	6.2	10.3	7.5	3.4	1.4
84.2	82.5°	58.9	23.3	8.9	5.5	2.7	2.7	1.4	0.0	0.0	0.0
47.9	85°	34.9	9.6	4.1	2.1	0.7	0.0	0.0	0.0	0.0	0.0
10.3	87.5°	8.9	2.1	1.4	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>
1188.3
1180.1
1129.4
984.9
782.2
610.3
511.0
441.8
397.9
366.4
334.9
302.7
272.6
246.6
212.3
183.6
155.5
140.4
131.5
124.7
118.5
112.3
106.2
98.6
86.3
67.8
50.0
41.8
34.2
25.3
16.4
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