

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: P947932

Luminaire Tested: **GALN-SB3A-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947932
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-SB3A-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 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: 9839 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

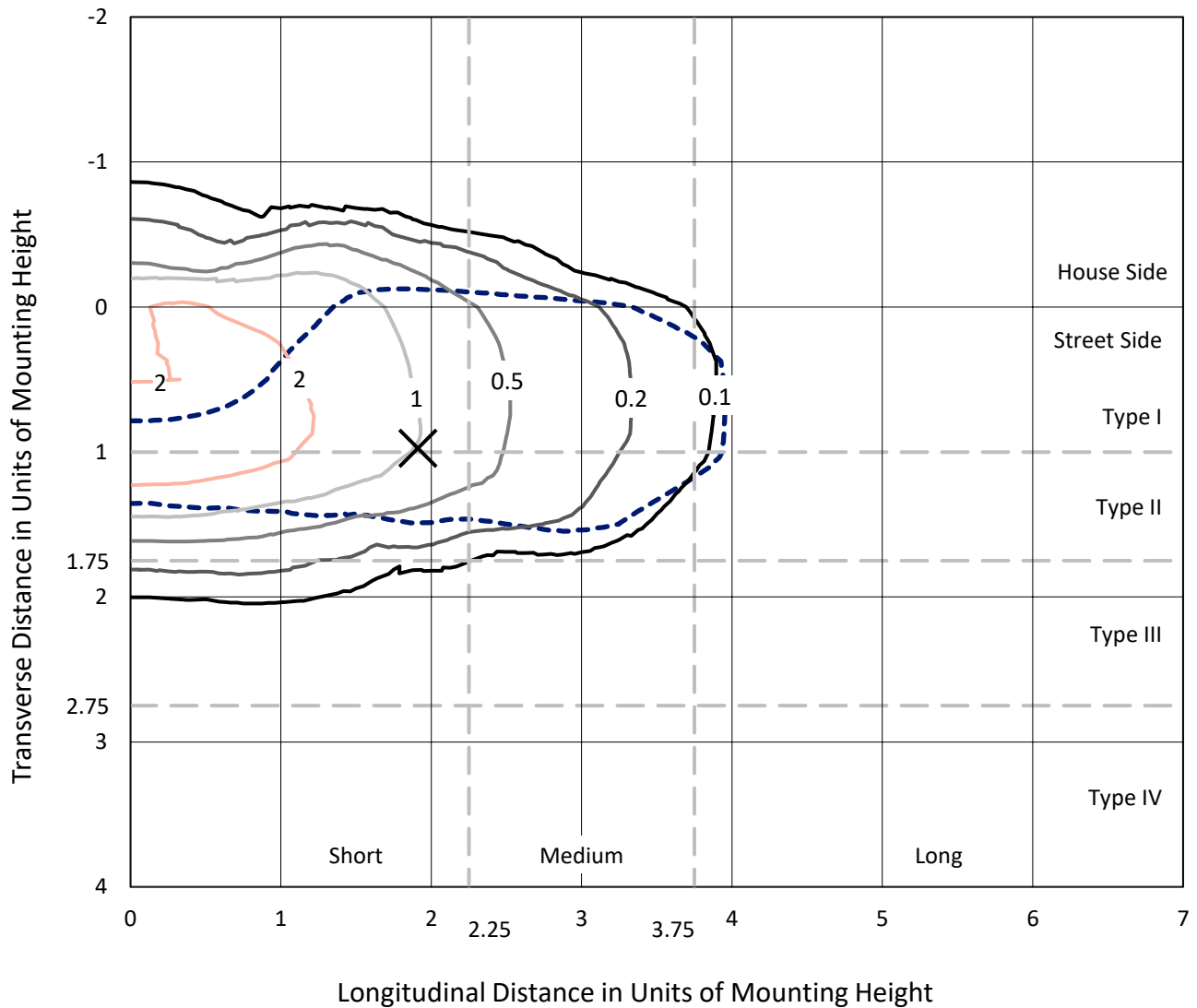
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

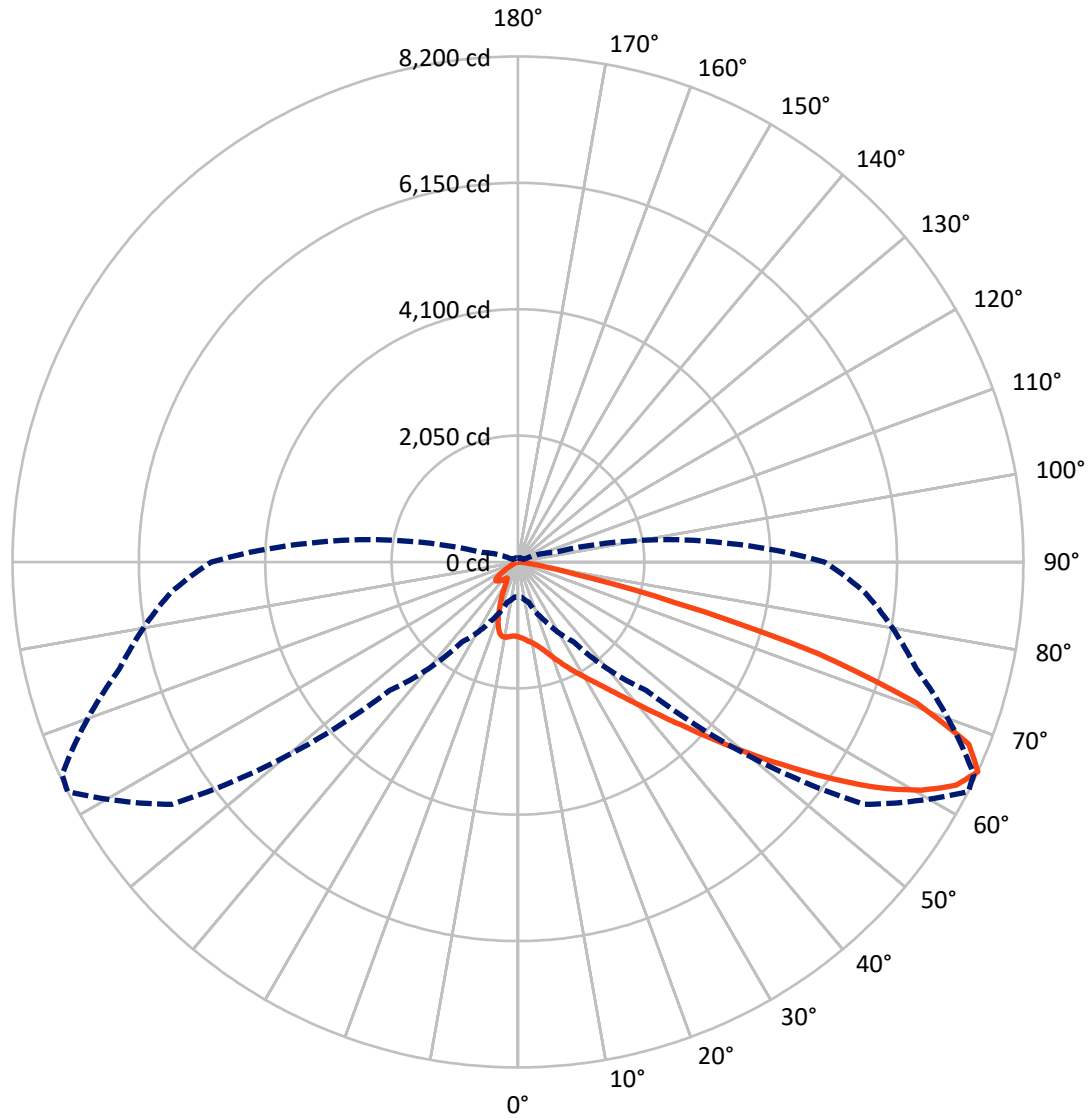
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type 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	1446.3	0.0	1446.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8392.7	0.0	8392.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	9839.0	0.0	9839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.2
10°-20°	317.5	3.2
20°-30°	552.8	5.6
30°-40°	996.3	10.1
40°-50°	1976.0	20.1
50°-60°	2691.6	27.4
60°-70°	2148.4	21.8
70°-80°	972.2	9.9
80°-90°	69.9	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°	9839.0	100.0
0°-180°	9839.0	100.0

Coefficient of Utilization



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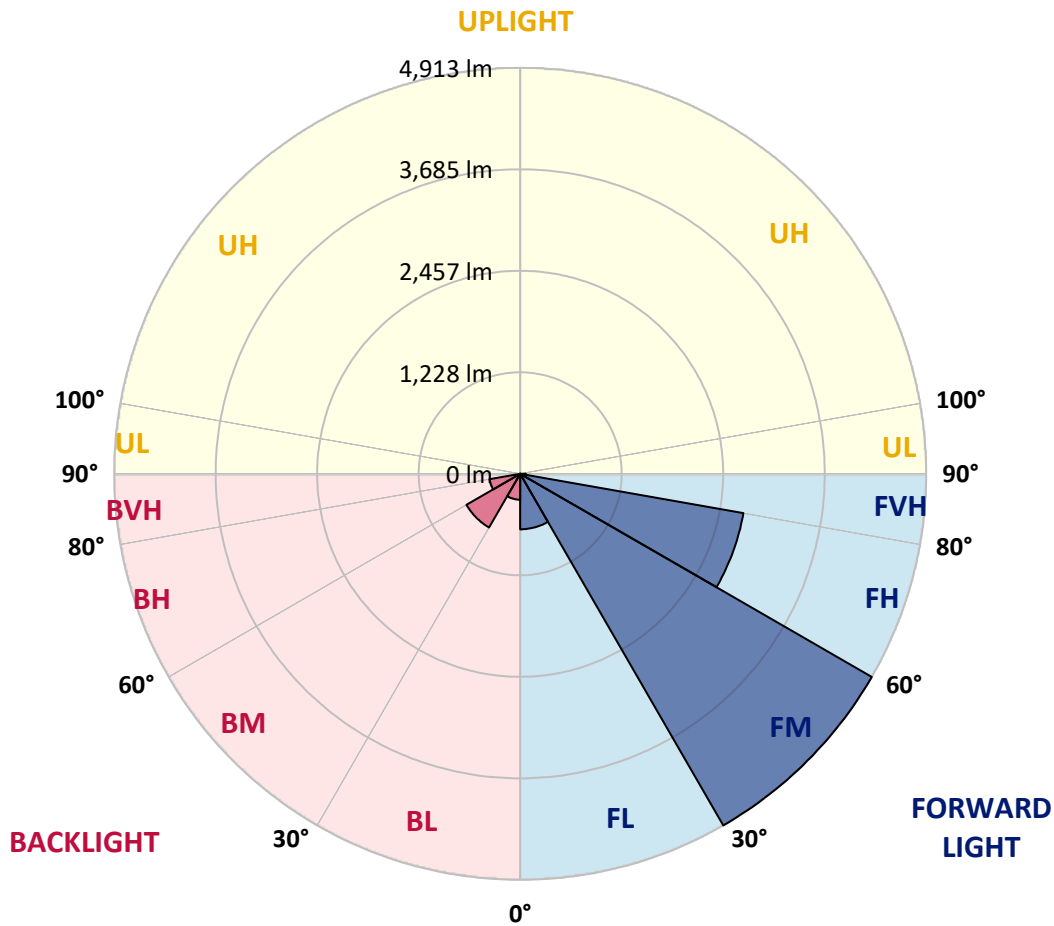
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	671.6	6.8			
FM (30°-60°)	4913.3	49.9			
FH (60°-80°)	2743.1	27.9			G2/5000
FVH (80°-90°)	64.7	0.7			G1/100
BL (0°-30°)	313.0	3.2	B1/500		
BM (30°-60°)	750.5	7.6	B1/1000		
BH (60°-80°)	377.6	3.8	B1/500		G1/500
BVH (80°-90°)	5.2	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°	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3
2.5°	1242.7	1239.4	1244.1	1242.1	1240.7	1238.0	1236.7	1235.3	1232.6	1230.6
5°	1246.1	1244.1	1248.8	1252.9	1257.0	1261.0	1263.1	1265.8	1263.1	1257.6
7.5°	1217.7	1216.3	1226.5	1238.7	1257.0	1272.5	1289.5	1298.9	1299.6	1297.6
10°	1215.7	1212.3	1222.4	1237.3	1261.0	1288.8	1318.6	1338.9	1341.6	1350.4
12.5°	1247.5	1244.1	1258.3	1274.6	1298.9	1328.0	1364.6	1393.0	1397.1	1409.3
15°	1301.0	1296.2	1312.5	1333.4	1364.6	1397.8	1436.3	1462.1	1465.4	1480.3
17.5°	1363.2	1358.5	1377.4	1399.8	1433.6	1479.0	1523.7	1552.1	1556.1	1565.6
20°	1443.1	1437.0	1451.9	1472.2	1508.1	1562.2	1615.7	1656.3	1655.6	1655.6
22.5°	1535.8	1526.4	1539.2	1555.5	1589.3	1655.0	1726.0	1774.1	1774.1	1755.1
25°	1635.3	1625.9	1640.1	1655.0	1684.7	1759.2	1842.5	1902.0	1904.7	1872.2
27.5°	1759.9	1747.7	1758.5	1776.1	1793.7	1869.5	1968.4	2037.4	2038.8	1988.7
30°	1999.5	1965.0	1931.1	1912.2	1920.3	1995.4	2101.0	2177.5	2184.3	2115.2
32.5°	2438.1	2431.3	2312.2	2156.5	2075.3	2130.8	2249.3	2341.3	2345.4	2256.7
35°	3119.7	3111.6	2920.1	2623.6	2358.9	2312.2	2429.3	2538.3	2535.6	2435.4
37.5°	3933.3	3925.9	3673.4	3276.8	2848.3	2586.3	2661.5	2775.9	2792.8	2661.5
40°	4628.5	4600.7	4441.0	4058.6	3498.1	3041.2	2991.8	3067.6	3085.2	2929.5
42.5°	5155.1	5131.4	5050.2	4811.2	4284.6	3714.0	3381.0	3410.1	3429.7	3242.9
45°	5427.9	5422.5	5455.0	5432.6	5086.1	4539.8	3937.4	3816.2	3823.7	3590.2
47.5°	5466.5	5463.8	5612.0	5821.8	5775.1	5471.2	4651.5	4322.5	4296.1	3982.1
50°	5239.0	5233.6	5517.9	5911.2	6235.4	6253.7	5462.4	4893.1	4834.9	4387.5
52.5°	4512.7	4511.4	4978.4	5633.0	6397.2	6938.7	6263.8	5519.9	5422.5	4816.7
55°	3472.4	3497.4	4032.8	4806.5	6102.1	7268.3	6983.3	6215.8	6066.2	5248.5
57.5°	2459.8	2496.3	3025.6	3714.7	5186.9	7073.4	7470.0	6913.0	6751.9	5679.0
60°	1321.3	1353.8	1883.8	2706.2	3858.9	6346.4	7726.6	7518.1	7365.8	6087.8
62.5°	787.2	798.0	1017.3	1747.0	2610.0	4848.5	7617.6	7979.0	7853.8	6431.0
65°	565.2	567.2	677.6	1066.8	1584.6	2945.8	6853.4	8199.7	8161.1	6689.6
67.5°	475.8	474.5	520.5	708.7	1079.6	1475.6	5252.6	7887.7	8051.5	6853.4
70°	408.2	410.2	464.3	519.2	811.6	835.3	2611.4	6867.6	7216.9	6896.7
72.5°	303.9	310.7	360.8	473.1	612.6	574.7	901.6	5092.2	5723.7	6498.0
75°	214.6	218.0	253.8	398.0	456.9	418.3	460.3	2632.4	3441.9	4981.8
77.5°	165.2	171.3	192.2	278.2	450.1	293.8	281.6	911.1	1399.8	3009.4
80°	89.3	100.2	138.8	201.0	316.1	207.8	139.4	362.8	474.5	1407.2
82.5°	46.0	51.4	96.8	144.9	180.0	181.4	69.0	150.9	195.6	434.6
85°	18.3	22.3	65.0	79.9	92.7	89.3	31.1	60.9	70.4	120.5
87.5°	4.1	6.8	23.7	18.3	17.6	19.0	7.4	14.2	13.5	14.2
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°
1214.3	0°	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3
1222.4	2.5°	1221.8	1219.1	1211.6	1203.5	1194.0	1188.6	1185.2	1184.5	1179.8	1176.4
1249.5	5°	1242.1	1239.4	1225.1	1208.2	1190.0	1175.7	1162.2	1150.0	1132.4	1129.0
1288.8	7.5°	1282.7	1275.2	1252.2	1229.2	1194.7	1153.4	1103.3	1045.8	994.3	978.8
1340.9	10°	1332.8	1322.6	1293.5	1252.9	1176.4	1064.1	942.9	830.5	741.2	716.1
1402.5	12.5°	1389.6	1380.8	1342.2	1267.1	1099.9	896.2	710.7	571.3	484.6	463.0
1468.1	15°	1457.3	1444.5	1391.0	1245.5	963.2	680.9	488.0	405.4	374.3	370.3
1543.3	17.5°	1529.1	1508.1	1434.3	1167.6	779.1	484.0	377.0	353.3	339.8	335.7
1619.1	20°	1594.7	1567.6	1460.0	1049.8	582.1	377.0	337.8	322.2	310.0	305.3
1694.9	22.5°	1660.4	1621.8	1460.0	889.4	436.6	334.4	310.0	295.8	281.6	275.5
1776.1	25°	1728.7	1677.3	1434.3	710.7	351.3	306.6	283.6	268.0	255.9	248.4
1853.3	27.5°	1795.1	1724.0	1375.4	541.5	312.7	282.3	259.2	244.4	232.8	227.4
1937.2	30°	1858.0	1770.0	1292.8	410.9	287.7	258.6	236.9	224.0	212.5	207.1
2046.2	32.5°	1943.3	1828.2	1204.8	337.1	266.0	236.2	216.6	204.4	194.3	190.2
2187.7	35°	2061.8	1914.2	1129.0	331.0	247.7	218.0	198.3	186.8	176.7	173.3
2370.4	37.5°	2229.6	2053.0	1089.1	371.6	232.8	201.7	183.4	171.3	161.8	159.1
2602.6	40°	2436.8	2241.1	1110.8	412.2	222.7	187.5	169.9	157.7	149.6	146.2
2869.3	42.5°	2682.5	2473.3	1230.6	443.4	215.9	175.3	157.0	143.5	138.1	136.7
3171.8	45°	2964.7	2728.5	1414.0	476.5	205.1	163.8	144.2	134.0	130.0	129.3
3500.8	47.5°	3285.6	3008.7	1626.5	517.8	194.3	153.0	134.0	127.3	123.9	122.5
3844.0	50°	3603.7	3291.0	1845.2	540.8	185.5	142.8	125.9	120.5	117.8	117.1
4206.8	52.5°	3936.7	3581.4	2021.8	519.2	178.0	134.7	119.1	115.1	112.4	111.7
4541.2	55°	4254.2	3816.2	2052.3	440.6	163.1	126.6	111.7	109.7	106.3	106.3
4880.3	57.5°	4527.6	3934.0	1837.0	323.5	148.2	114.4	104.2	102.2	99.5	98.8
5186.2	60°	4778.8	3900.2	1418.1	218.0	132.0	102.2	94.8	93.4	90.7	87.3
5452.2	62.5°	4920.2	3751.3	970.0	142.1	115.7	89.3	83.9	83.3	77.2	70.4
5649.2	65°	4973.7	3445.3	605.1	103.6	96.8	76.5	72.4	71.1	62.3	54.8
5760.9	67.5°	4927.0	2941.7	305.3	81.9	76.5	63.6	59.6	59.6	53.5	46.7
5754.1	70°	4740.2	2205.3	128.6	65.7	58.9	48.7	48.7	51.4	45.4	37.9
5455.6	72.5°	4334.7	1483.7	68.4	50.1	44.0	34.5	39.9	42.0	35.9	28.4
4465.4	75°	3446.0	905.0	47.4	37.2	27.8	24.4	30.5	31.8	24.4	19.0
3061.5	77.5°	2356.9	519.8	31.8	23.7	17.6	14.2	21.0	19.6	12.9	8.8
1180.5	80°	1034.9	216.6	18.3	10.8	6.8	5.4	7.4	5.4	4.1	2.7
161.8	82.5°	121.2	50.8	6.8	4.1	2.7	1.4	0.7	0.0	0.0	0.0
49.4	85°	25.0	6.1	3.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
8.8	87.5°	4.7	1.4	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>
1214.3
1179.8
1127.7
971.3
706.7
456.9
366.2
333.7
302.6
272.1
245.7
227.4
207.8
190.2
173.3
158.4
145.5
136.7
128.6
122.5
117.1
111.7
105.6
98.1
86.6
69.0
54.2
46.0
37.2
28.4
18.3
9.5
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