

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: P945012

Luminaire Tested: **GALN-SB1A-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4107 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

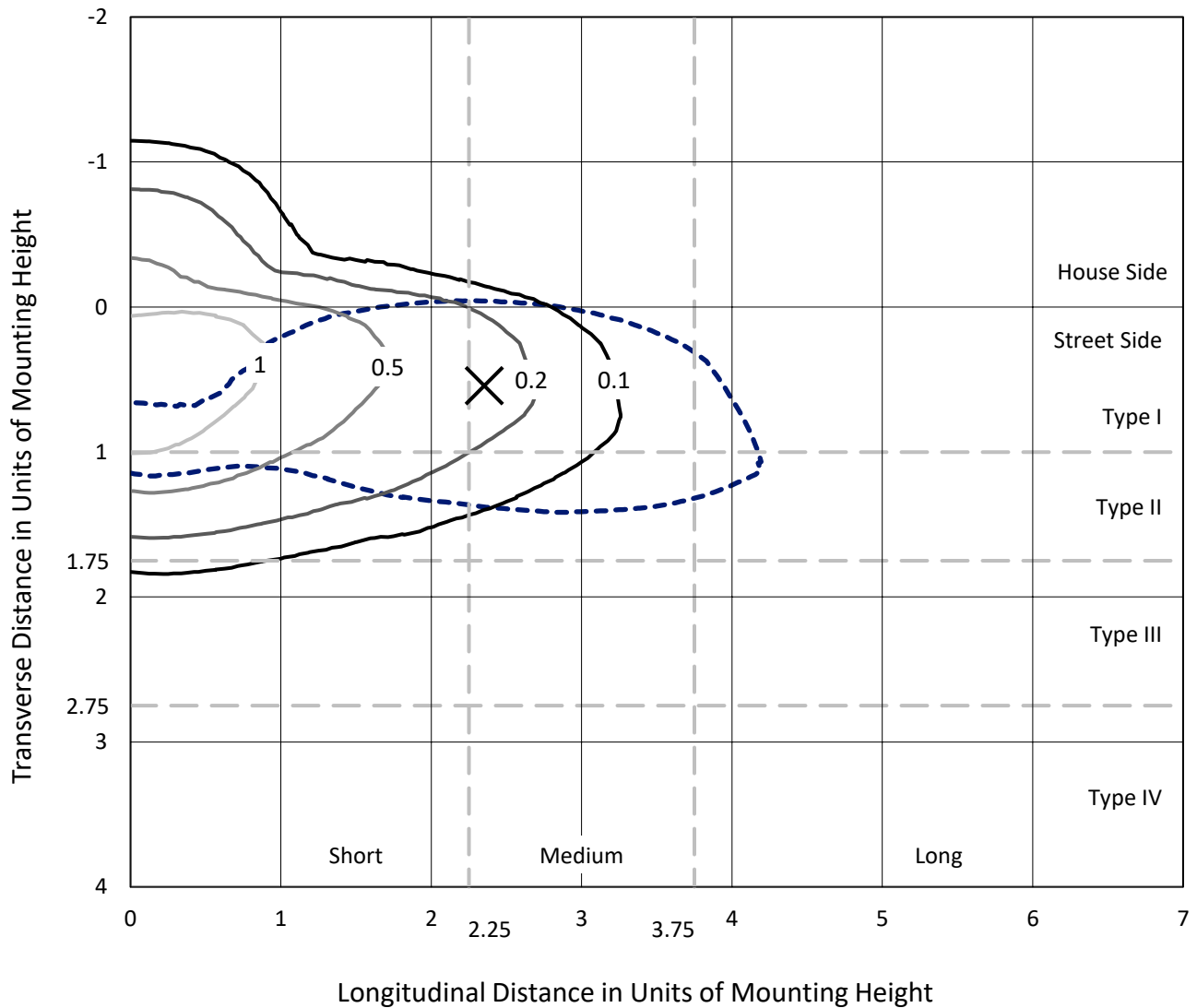
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

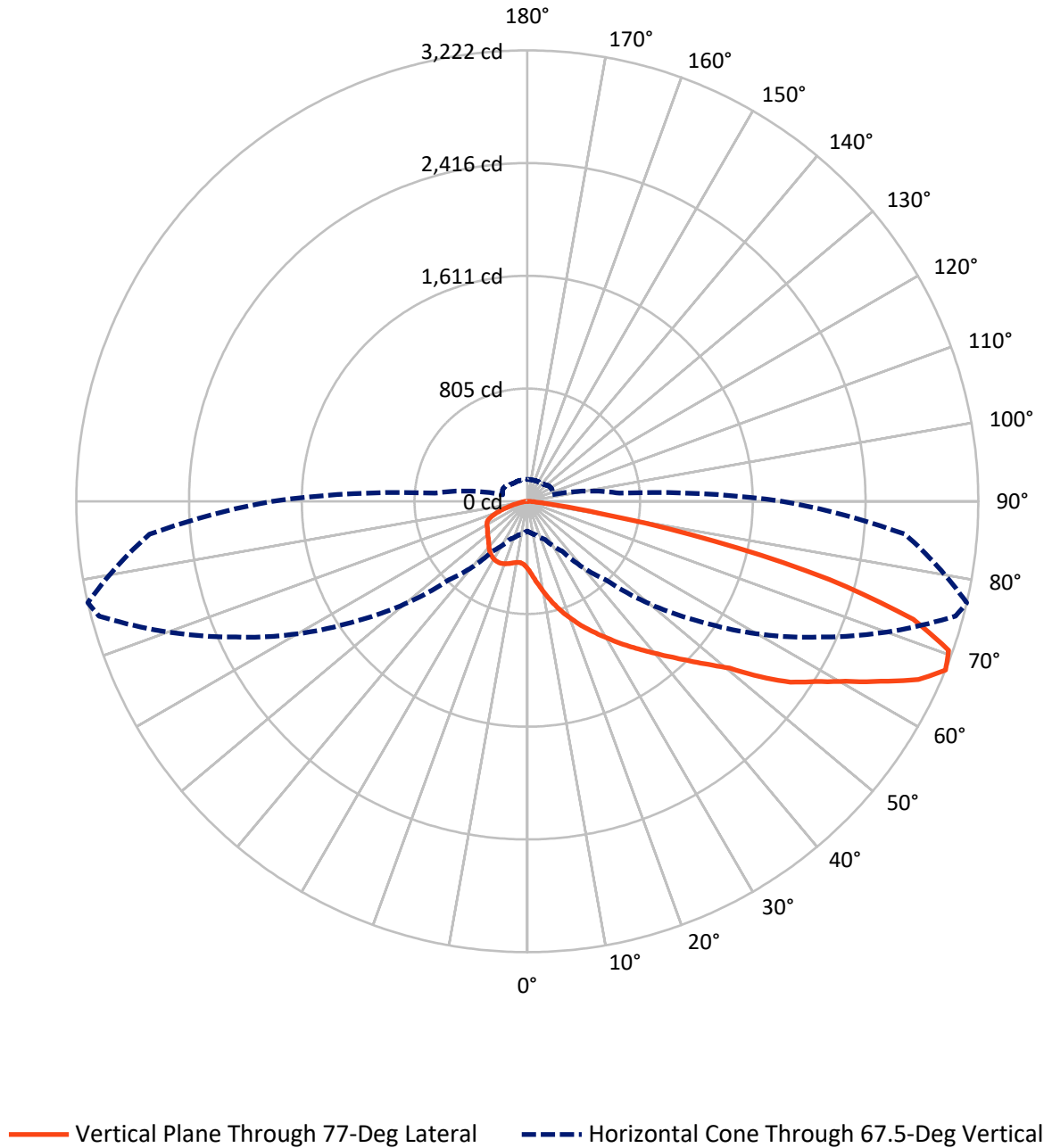
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	776.9	0.0	776.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3330.1	0.0	3330.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	4107.0	0.0	4107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.3
10°-20°	185.6	4.5
20°-30°	350.4	8.5
30°-40°	564.4	13.7
40°-50°	772.0	18.8
50°-60°	870.8	21.2
60°-70°	812.8	19.8
70°-80°	445.6	10.8
80°-90°	53.7	1.3
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°	4107.0	100.0
0°-180°	4107.0	100.0

Coefficient of Utilization



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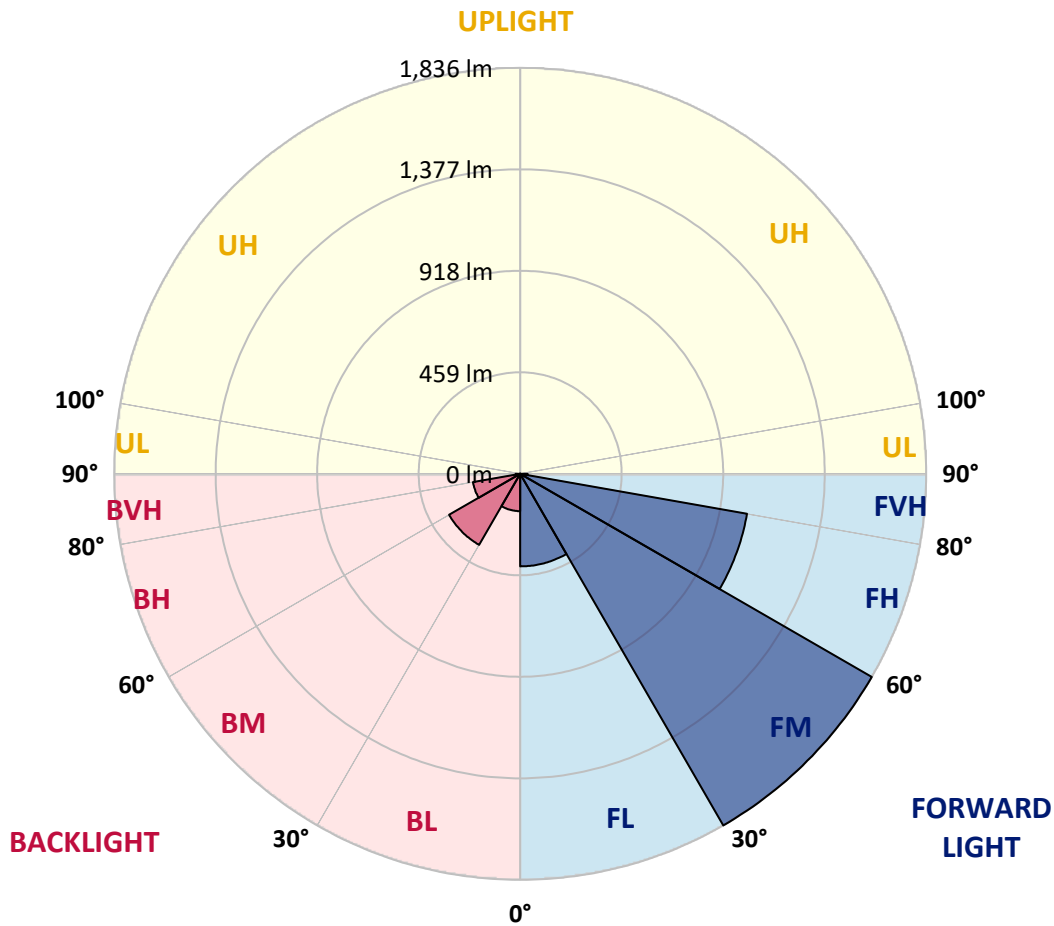
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.7	10.2			
FM (30°-60°)	1836.2	44.7			
FH (60°-80°)	1041.7	25.4			G1/1800
FVH (80°-90°)	33.6	0.8			G1/100
BL (0°-30°)	168.9	4.1	B1/500		
BM (30°-60°)	371.1	9.0	B1/1000		
BH (60°-80°)	216.7	5.3	B1/500		G1/500
BVH (80°-90°)	20.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	603.4	607.6	602.3	602.3	584.5	575.2	557.4	543.8	519.4	515.2
5°	713.2	718.5	711.1	707.9	686.9	667.6	637.7	608.2	564.8	560.3
7.5°	798.2	805.0	798.4	795.0	776.3	754.7	719.7	678.6	617.3	608.7
10°	867.5	868.6	866.4	867.7	853.1	835.3	799.5	751.5	675.0	663.1
12.5°	906.7	911.6	915.8	923.5	920.9	909.9	877.7	820.4	736.1	720.8
15°	925.2	933.7	943.2	960.8	975.0	977.7	953.2	894.4	798.2	779.7
17.5°	931.7	939.8	954.9	980.3	1010.8	1031.4	1020.4	966.3	859.7	838.5
20°	965.0	967.4	976.5	1000.6	1033.7	1067.8	1076.1	1035.4	920.5	896.6
22.5°	1036.3	1031.6	1034.1	1045.2	1068.9	1102.0	1120.9	1096.5	983.0	955.5
25°	1153.9	1140.4	1126.8	1114.1	1126.2	1144.8	1166.2	1157.5	1048.6	1013.6
27.5°	1302.5	1286.0	1256.1	1214.3	1199.7	1206.3	1215.8	1214.1	1109.2	1073.8
30°	1448.8	1429.5	1393.9	1333.5	1294.9	1277.5	1270.3	1265.4	1175.1	1137.4
32.5°	1565.6	1550.4	1515.4	1447.8	1391.8	1362.1	1338.2	1320.8	1244.0	1206.3
35°	1667.8	1653.6	1613.5	1539.8	1478.9	1447.3	1416.0	1378.9	1315.7	1277.5
37.5°	1761.1	1746.9	1692.0	1615.2	1554.0	1532.1	1504.1	1441.2	1387.5	1351.5
40°	1820.0	1816.9	1765.5	1678.6	1615.0	1604.2	1594.9	1513.5	1467.3	1433.8
42.5°	1835.1	1842.1	1801.4	1729.9	1669.3	1660.6	1682.4	1595.3	1556.7	1524.7
45°	1798.8	1819.0	1792.3	1743.7	1707.9	1703.2	1760.0	1684.8	1655.7	1626.5
47.5°	1707.0	1741.2	1730.1	1723.4	1718.3	1738.4	1828.3	1779.7	1767.9	1742.4
50°	1521.7	1586.4	1605.7	1648.5	1697.7	1765.8	1890.4	1883.4	1898.9	1873.2
52.5°	1201.4	1290.5	1402.4	1509.7	1634.5	1756.6	1958.7	2032.2	2097.5	2083.5
55°	991.7	1031.8	1117.9	1314.6	1512.0	1718.3	1989.4	2152.4	2294.7	2282.2
57.5°	830.6	866.4	919.4	1083.8	1326.7	1631.1	2008.5	2225.8	2429.7	2428.5
60°	657.8	695.8	750.1	866.4	1110.3	1480.6	2004.3	2309.3	2602.1	2612.7
62.5°	462.8	504.6	564.8	673.3	889.1	1285.6	1917.8	2369.7	2805.0	2833.8
65°	304.2	331.8	377.2	470.9	662.5	1034.8	1752.6	2377.6	3022.1	3070.8
67.5°	213.3	223.9	250.6	301.5	436.7	793.5	1489.5	2296.4	3166.9	3221.8
70°	166.4	171.7	185.3	205.6	274.3	533.6	1141.4	2085.2	3135.9	3193.2
72.5°	143.7	148.8	153.9	156.5	184.0	329.4	773.2	1743.5	2844.4	2883.2
75°	130.4	131.7	135.9	135.0	140.3	213.7	446.3	1270.3	2244.2	2230.9
77.5°	109.6	111.3	118.3	117.2	124.7	146.1	231.7	819.8	1455.0	1364.2
80°	92.9	93.7	101.3	100.1	108.3	105.8	118.3	417.9	617.1	522.8
82.5°	32.2	39.9	77.4	79.7	82.7	64.0	68.3	170.4	188.5	144.4
85°	15.7	16.7	39.4	56.0	55.8	32.2	33.3	60.8	59.4	46.6
87.5°	2.5	3.2	4.7	21.8	17.4	8.5	11.4	11.9	12.3	10.6
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°
481.9	0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
499.1	2.5°	487.2	476.6	454.3	433.8	417.6	402.2	393.5	386.1	381.8	381.0
522.4	5°	500.3	478.5	438.0	403.9	381.6	365.1	356.4	350.9	348.1	346.4
553.7	7.5°	519.2	487.2	429.5	390.7	367.4	355.5	351.1	350.2	350.0	350.2
591.7	10°	545.3	501.4	428.7	387.5	368.0	361.5	361.3	361.5	362.3	362.5
633.0	12.5°	573.5	516.0	432.1	390.3	376.1	372.5	371.9	371.6	372.3	372.7
674.8	15°	604.2	535.3	437.8	396.2	385.0	381.2	380.5	379.3	379.1	378.8
718.7	17.5°	635.8	554.4	444.1	402.6	390.7	385.4	383.1	380.1	377.8	377.2
764.1	20°	667.8	573.3	448.6	405.8	391.1	383.7	379.1	374.0	369.9	367.6
809.8	22.5°	701.9	593.0	451.4	404.9	387.3	377.2	368.7	362.7	356.6	352.6
856.1	25°	735.2	610.1	451.1	400.5	379.9	367.0	356.2	348.5	340.0	335.8
903.8	27.5°	767.2	625.6	445.8	392.6	369.3	354.9	342.0	332.8	324.6	320.5
951.9	30°	800.3	638.5	437.6	381.2	356.8	340.9	326.7	318.8	311.4	307.6
1002.8	32.5°	833.2	650.4	425.9	367.0	342.4	327.1	313.1	305.9	301.5	301.5
1057.5	35°	867.9	658.7	410.4	350.4	327.1	312.5	301.5	297.2	296.8	294.3
1115.3	37.5°	904.6	664.0	391.6	333.5	312.1	298.3	294.9	289.8	285.6	280.1
1178.9	40°	943.2	669.3	368.9	315.9	296.2	288.5	287.0	280.3	268.2	254.6
1251.0	42.5°	990.0	672.9	345.3	298.3	279.4	276.9	279.0	267.3	248.0	237.9
1337.9	45°	1044.3	678.8	323.7	280.9	262.2	262.2	271.1	255.9	240.0	233.6
1437.2	47.5°	1114.7	692.6	303.6	261.8	246.3	250.6	253.8	242.1	233.2	225.4
1558.0	50°	1216.5	725.7	282.8	242.5	234.3	242.7	238.3	231.5	221.1	214.8
1750.1	52.5°	1342.8	745.2	264.4	225.1	223.9	232.4	226.0	219.6	211.8	203.3
1895.7	55°	1428.9	748.8	248.9	212.4	216.9	216.0	213.7	208.0	203.7	192.5
2039.5	57.5°	1525.1	756.0	236.2	204.8	212.4	203.1	202.2	197.4	191.9	184.2
2214.8	60°	1640.3	767.2	225.1	201.8	208.6	194.6	190.4	188.5	183.0	179.1
2425.7	62.5°	1765.8	777.4	213.9	202.2	204.2	186.3	180.0	179.4	176.0	174.7
2623.7	65°	1851.4	749.6	199.9	201.8	197.2	177.9	169.8	169.6	166.8	166.4
2709.6	67.5°	1821.5	661.7	181.0	195.9	190.0	169.4	160.5	159.6	156.0	156.2
2619.9	70°	1671.8	536.2	155.0	181.3	181.0	161.8	150.7	148.0	143.1	143.9
2278.0	72.5°	1391.2	397.3	120.0	156.9	166.8	154.8	139.5	135.0	128.9	129.7
1681.6	75°	1004.7	270.1	87.3	119.4	145.2	146.5	128.5	120.8	113.4	114.7
936.0	77.5°	514.1	153.1	64.2	82.3	114.1	133.1	118.5	108.3	106.6	118.5
269.9	80°	167.7	76.7	44.5	57.7	74.8	109.0	103.9	92.2	91.8	94.6
56.6	82.5°	50.0	32.4	28.6	37.9	41.3	83.5	89.7	69.7	60.0	63.2
18.9	85°	17.2	15.7	16.3	18.9	19.7	49.0	62.8	46.2	43.7	48.1
4.2	87.5°	4.0	5.5	4.7	4.2	4.2	11.9	24.4	19.3	26.7	17.8
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>
481.9
381.0
346.2
350.9
362.7
372.9
378.6
377.8
368.5
352.8
335.8
320.3
307.4
301.7
293.6
279.2
252.7
238.1
234.7
225.1
214.1
201.6
192.7
181.7
180.2
174.7
166.2
156.2
144.8
129.5
115.1
116.8
81.2
65.3
47.5
17.2
0.0

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