

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: P945081

Luminaire Tested: **GALN-SB1A-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4284 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

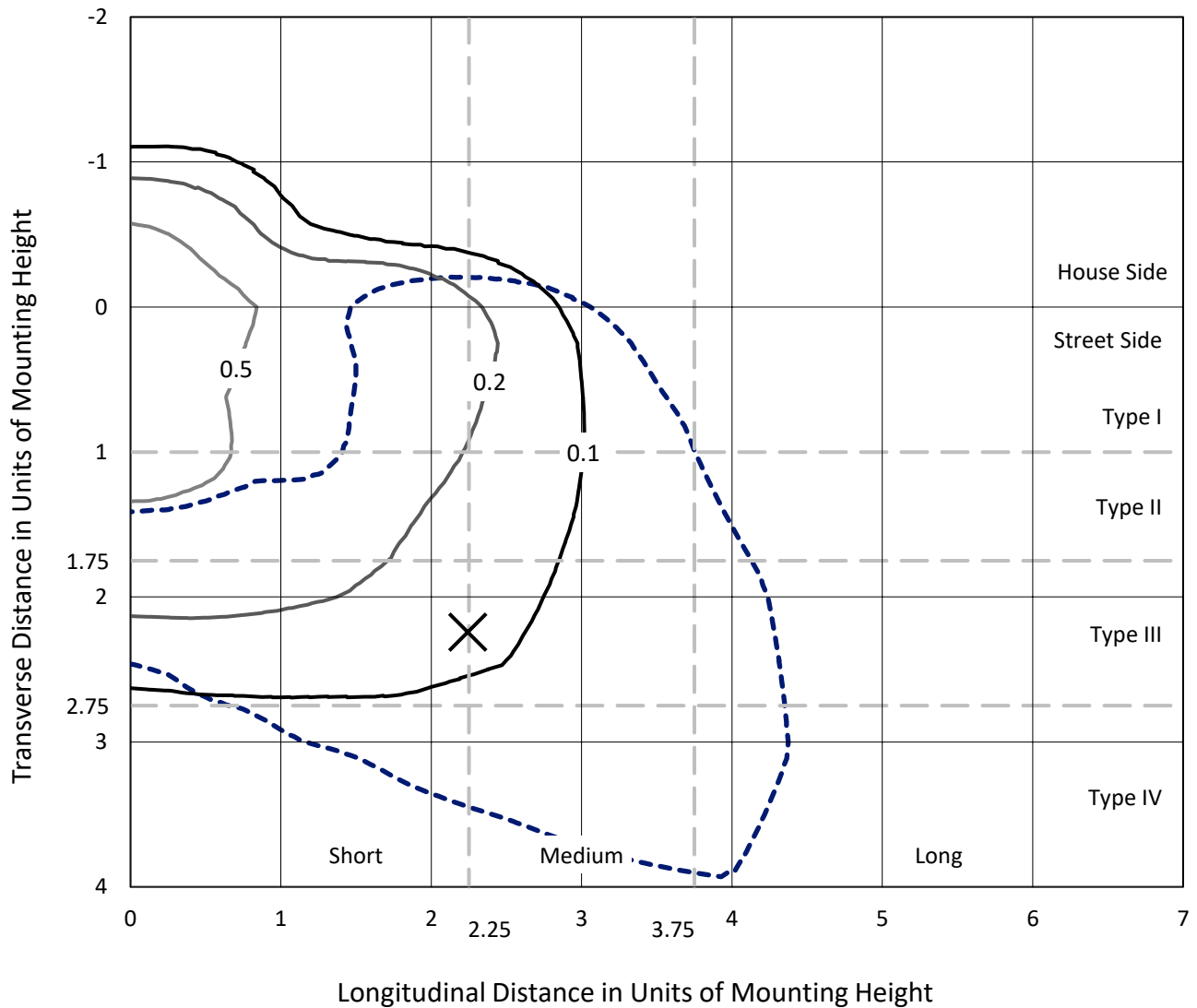
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

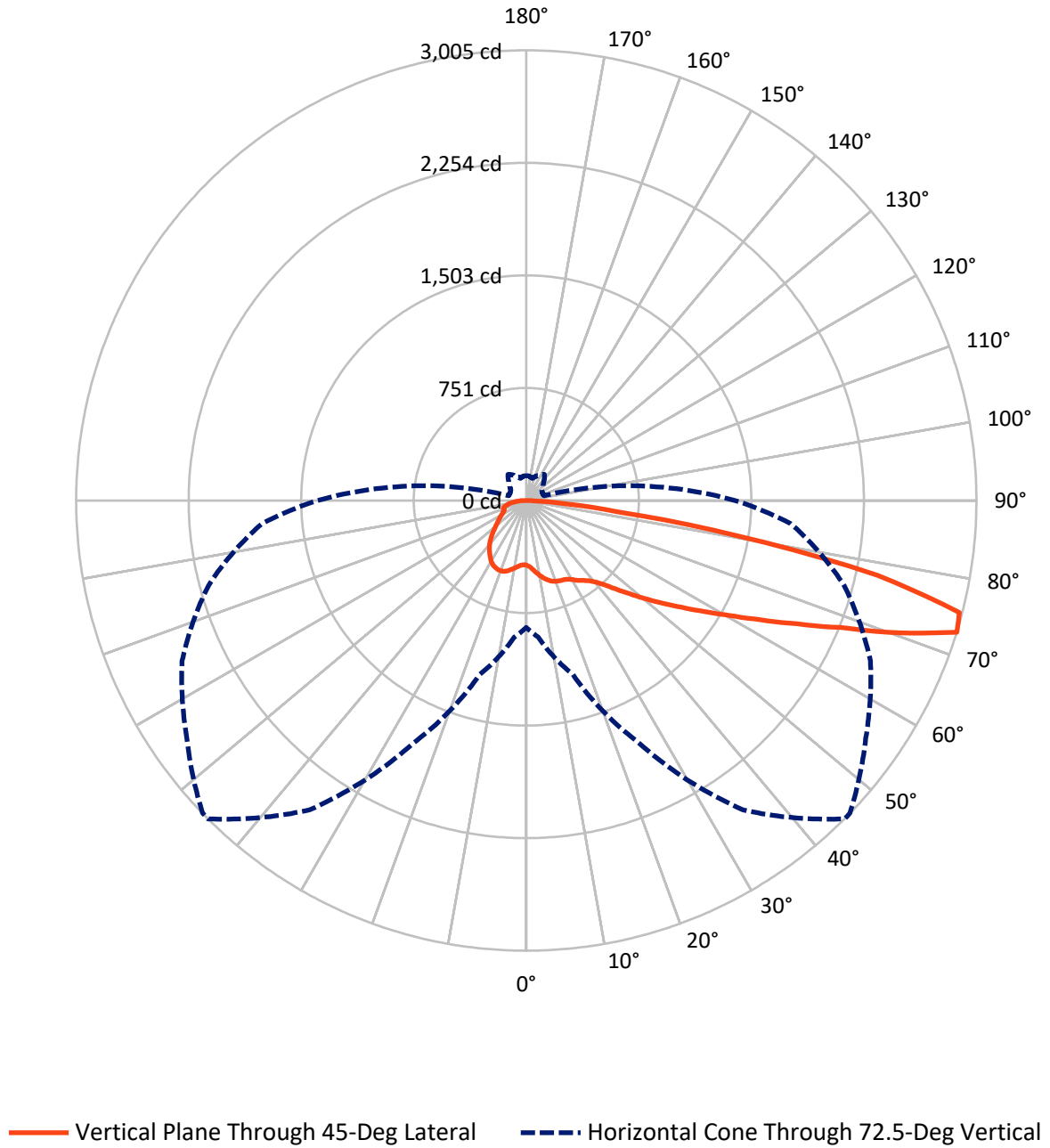
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	968.5	0.0	968.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3315.5	0.0	3315.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	4284.0	0.0	4284.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.0
10°-20°	146.7	3.4
20°-30°	255.1	6.0
30°-40°	365.7	8.5
40°-50°	515.0	12.0
50°-60°	788.8	18.4
60°-70°	1142.7	26.7
70°-80°	912.5	21.3
80°-90°	113.6	2.7
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°	4284.0	100.0
0°-180°	4284.0	100.0



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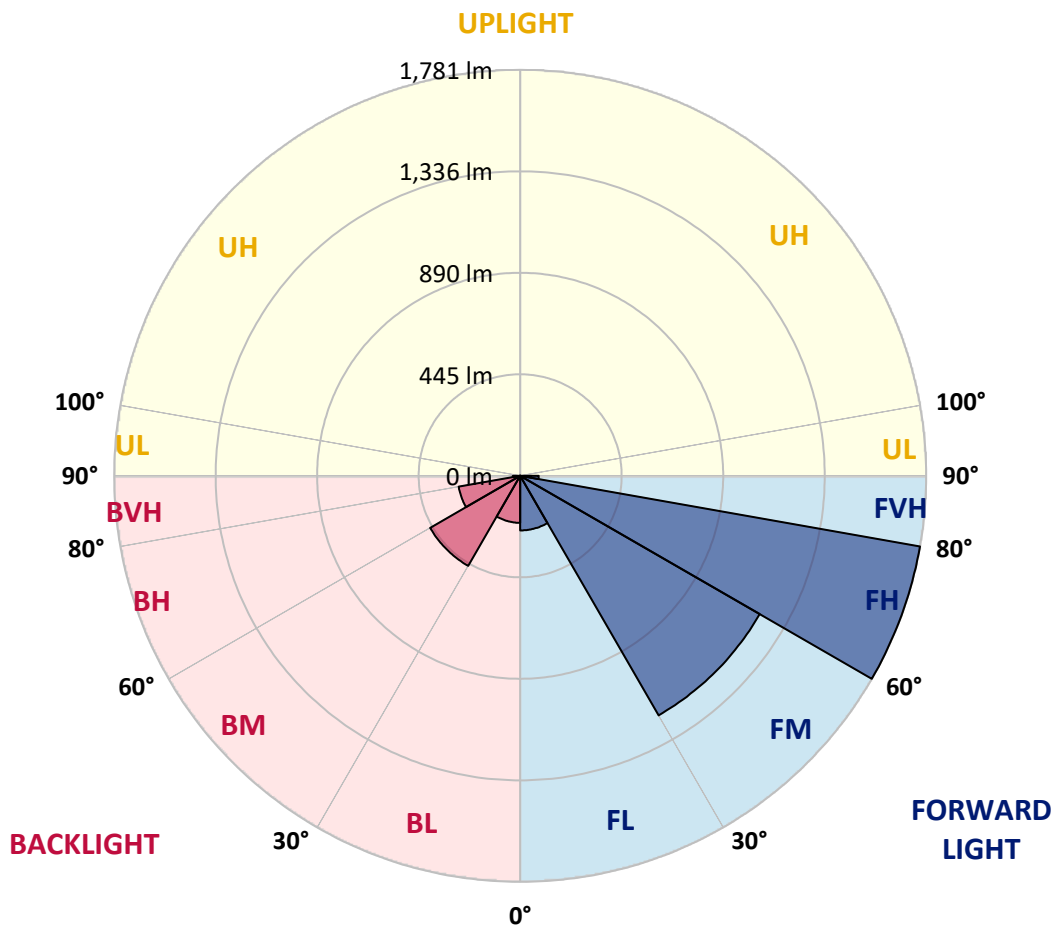
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.6	5.6			
FM (30°-60°)	1213.5	28.3			
FH (60°-80°)	1781.0	41.6			G1/1800
FVH (80°-90°)	81.5	1.9			G1/100
BL (0°-30°)	206.2	4.8	B1/500		
BM (30°-60°)	456.0	10.6	B1/1000		
BH (60°-80°)	274.1	6.4	B1/500		G1/500
BVH (80°-90°)	32.1	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2
2.5°	449.1	452.0	449.3	446.8	445.7	442.8	442.6	440.7	439.6	436.5
5°	480.5	484.3	479.8	474.8	470.3	463.1	462.2	457.0	451.1	444.4
7.5°	515.9	519.3	514.1	506.6	498.7	486.8	486.6	477.1	467.8	456.3
10°	546.8	551.3	544.3	534.2	524.2	510.7	509.1	498.3	486.6	471.7
12.5°	574.1	577.3	570.5	558.1	546.6	533.1	531.0	519.1	506.0	489.0
15°	595.8	599.9	590.8	577.5	565.3	552.0	550.2	539.4	526.3	508.5
17.5°	610.0	613.4	604.1	589.2	577.5	566.5	565.1	556.1	544.6	526.5
20°	615.4	619.0	609.3	594.2	583.4	574.8	574.1	567.6	559.7	543.2
22.5°	620.8	624.2	611.6	595.8	586.3	580.9	580.7	576.4	573.2	559.7
25°	642.7	643.6	626.7	603.9	590.4	585.6	585.4	585.2	586.5	575.9
27.5°	661.7	661.5	647.0	625.6	604.6	594.7	594.4	596.7	601.0	592.2
30°	689.4	687.0	669.8	647.5	628.3	612.9	611.6	609.6	612.9	605.9
32.5°	748.3	740.4	712.7	673.0	647.9	636.2	634.4	621.7	623.1	618.8
35°	832.7	822.4	785.4	721.3	672.3	655.6	654.7	638.7	636.0	632.1
37.5°	933.2	920.3	877.2	791.2	714.3	678.2	676.8	662.4	651.3	647.2
40°	1034.1	1017.8	982.1	876.5	776.1	715.8	711.6	689.7	677.0	670.3
42.5°	1132.0	1118.5	1088.0	972.2	852.4	770.9	761.4	724.0	714.5	708.2
45°	1218.7	1206.5	1184.1	1074.5	941.8	845.8	836.6	775.4	772.5	772.5
47.5°	1289.1	1286.4	1262.7	1178.7	1047.1	931.1	915.1	847.0	854.9	867.1
50°	1367.2	1359.7	1334.4	1281.4	1171.0	1028.9	1015.8	934.8	964.3	997.7
52.5°	1438.9	1443.0	1414.8	1388.4	1311.0	1137.9	1114.8	1038.3	1102.2	1157.5
55°	1512.7	1512.9	1505.0	1501.4	1457.7	1258.4	1233.1	1162.9	1264.5	1333.1
57.5°	1582.0	1582.4	1594.2	1626.0	1627.8	1397.4	1368.7	1315.9	1444.8	1514.7
60°	1643.8	1647.0	1679.0	1753.5	1777.4	1556.7	1529.6	1496.7	1631.2	1701.6
62.5°	1664.6	1676.1	1747.4	1853.3	1925.3	1752.2	1725.5	1705.9	1827.1	1892.5
65°	1629.4	1655.8	1793.7	1935.6	2077.4	1984.4	1958.0	1936.5	2030.6	2092.3
67.5°	1543.0	1577.0	1791.0	2022.1	2262.0	2263.8	2239.2	2188.8	2248.9	2272.6
70°	1315.2	1366.3	1633.2	2054.3	2473.9	2645.8	2622.1	2492.6	2466.7	2352.0
72.5°	847.4	916.0	1202.6	1788.7	2521.0	3005.3	3004.0	2766.8	2535.5	2197.6
75°	309.2	351.2	558.8	1122.7	2116.2	2987.1	2995.9	2719.9	2314.5	1697.5
77.5°	112.6	123.2	182.3	431.5	1301.5	2396.7	2415.0	2174.4	1647.4	851.9
80°	59.1	65.0	93.4	167.5	557.6	1423.3	1452.0	1292.2	774.3	256.6
82.5°	32.7	35.4	52.4	90.9	251.2	608.7	625.8	510.5	272.4	108.8
85°	17.6	18.7	24.6	49.6	122.8	211.0	215.7	152.6	108.6	63.9
87.5°	5.2	6.3	8.1	15.8	48.1	47.4	48.5	30.2	42.9	32.3
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°
432.2	0°	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2
435.6	2.5°	434.2	433.5	431.0	429.9	428.6	428.3	429.5	429.7	429.9	430.1
440.5	5°	438.3	436.0	433.8	432.4	432.8	433.1	435.3	436.9	438.0	438.9
449.8	7.5°	446.2	444.4	440.5	440.3	441.0	443.0	445.9	449.5	451.6	453.2
461.7	10°	457.9	454.5	450.0	450.7	452.0	455.0	461.1	464.0	467.4	470.3
476.4	12.5°	469.9	466.9	461.7	462.2	464.4	469.6	475.5	479.1	481.4	483.6
492.2	15°	485.4	480.2	474.6	474.6	478.7	484.3	487.0	489.9	491.3	493.8
509.1	17.5°	501.5	494.7	487.2	486.8	491.8	494.5	496.0	496.5	496.9	499.6
525.6	20°	517.5	510.0	499.4	498.5	499.6	499.2	499.0	498.5	499.2	502.6
542.5	22.5°	533.3	524.7	510.0	506.0	502.8	498.5	498.3	498.1	498.5	501.9
560.8	25°	551.8	541.4	521.8	509.6	499.0	493.1	493.8	494.0	494.5	497.2
579.8	27.5°	571.9	560.4	532.6	508.5	489.3	485.2	484.1	484.8	486.3	490.6
598.7	30°	592.0	578.4	542.5	503.9	477.1	471.4	467.8	469.4	474.4	478.7
615.2	32.5°	610.2	596.7	550.4	494.0	461.5	452.7	448.0	450.0	455.0	456.5
633.5	35°	631.7	616.3	553.8	478.2	444.6	431.0	424.7	421.8	424.3	422.7
654.9	37.5°	655.6	639.6	553.4	457.4	424.7	409.2	400.4	389.3	384.1	378.7
686.5	40°	691.0	668.0	547.9	432.4	400.1	385.9	370.1	351.4	339.6	329.0
737.5	42.5°	739.3	707.5	538.0	404.9	372.4	359.1	337.6	315.7	297.2	279.6
814.9	45°	811.3	759.2	525.6	375.5	342.4	329.3	306.0	281.4	260.4	237.9
924.8	47.5°	915.1	828.7	513.9	342.1	310.8	298.8	277.8	255.0	230.2	208.3
1083.7	50°	1057.7	928.4	503.0	309.6	279.6	270.6	253.9	230.6	205.6	188.0
1269.9	52.5°	1239.2	1064.1	498.5	278.3	250.5	247.1	233.8	212.1	188.4	173.5
1487.0	55°	1447.5	1226.3	498.5	248.2	225.0	226.1	216.9	196.8	176.3	162.9
1710.9	57.5°	1660.1	1390.6	489.5	220.5	203.3	208.1	202.2	184.6	166.1	152.3
1946.2	60°	1856.0	1528.3	452.9	195.2	184.2	191.6	187.8	172.6	150.1	138.6
2143.0	62.5°	2006.5	1605.9	382.5	175.1	168.4	176.9	174.9	156.8	147.1	142.4
2304.6	65°	2081.9	1593.3	292.5	157.3	155.0	168.4	164.1	163.4	155.7	150.3
2357.2	67.5°	2035.6	1484.5	212.1	144.2	147.4	160.5	176.9	179.6	165.4	154.8
2209.2	70°	1832.7	1287.7	158.0	131.8	137.7	160.7	201.8	188.0	162.3	149.8
1771.8	72.5°	1394.2	960.3	122.5	118.7	125.0	161.8	212.8	184.2	153.2	165.6
1103.8	75°	797.3	527.2	98.4	102.7	109.2	151.2	207.2	174.2	146.2	152.1
437.4	77.5°	304.0	202.7	81.2	86.9	87.8	132.0	198.1	173.5	139.2	135.9
131.1	80°	105.4	79.2	67.3	69.1	67.9	117.4	190.0	151.0	114.0	102.0
54.2	82.5°	43.1	39.5	53.3	51.0	48.3	91.2	153.5	123.4	93.2	82.4
26.2	85°	18.7	25.1	35.2	30.9	28.0	63.2	123.0	104.5	78.8	67.9
8.6	87.5°	3.8	9.5	14.9	14.0	14.4	42.2	87.3	74.2	55.7	41.8
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>
432.2
431.0
439.4
453.6
469.6
484.5
494.7
500.6
503.9
504.2
500.8
494.9
483.4
462.2
427.7
382.1
329.7
278.0
235.2
205.8
186.9
172.4
161.6
150.1
136.8
140.8
148.5
153.0
147.8
164.3
152.1
123.9
98.6
81.5
67.7
32.7
0.0

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