

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: P941594

Luminaire Tested: **GALN-SB5A-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11511 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

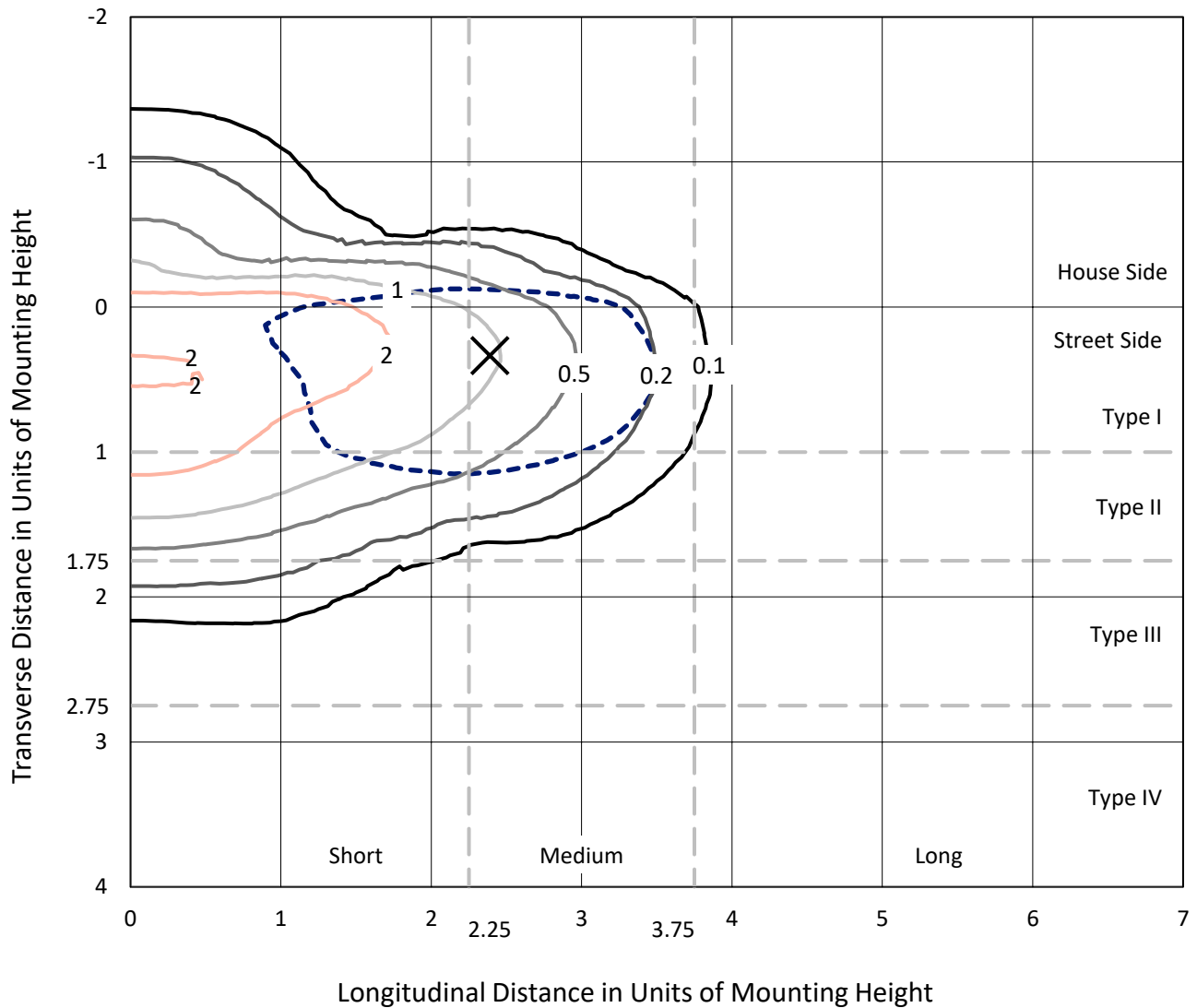
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

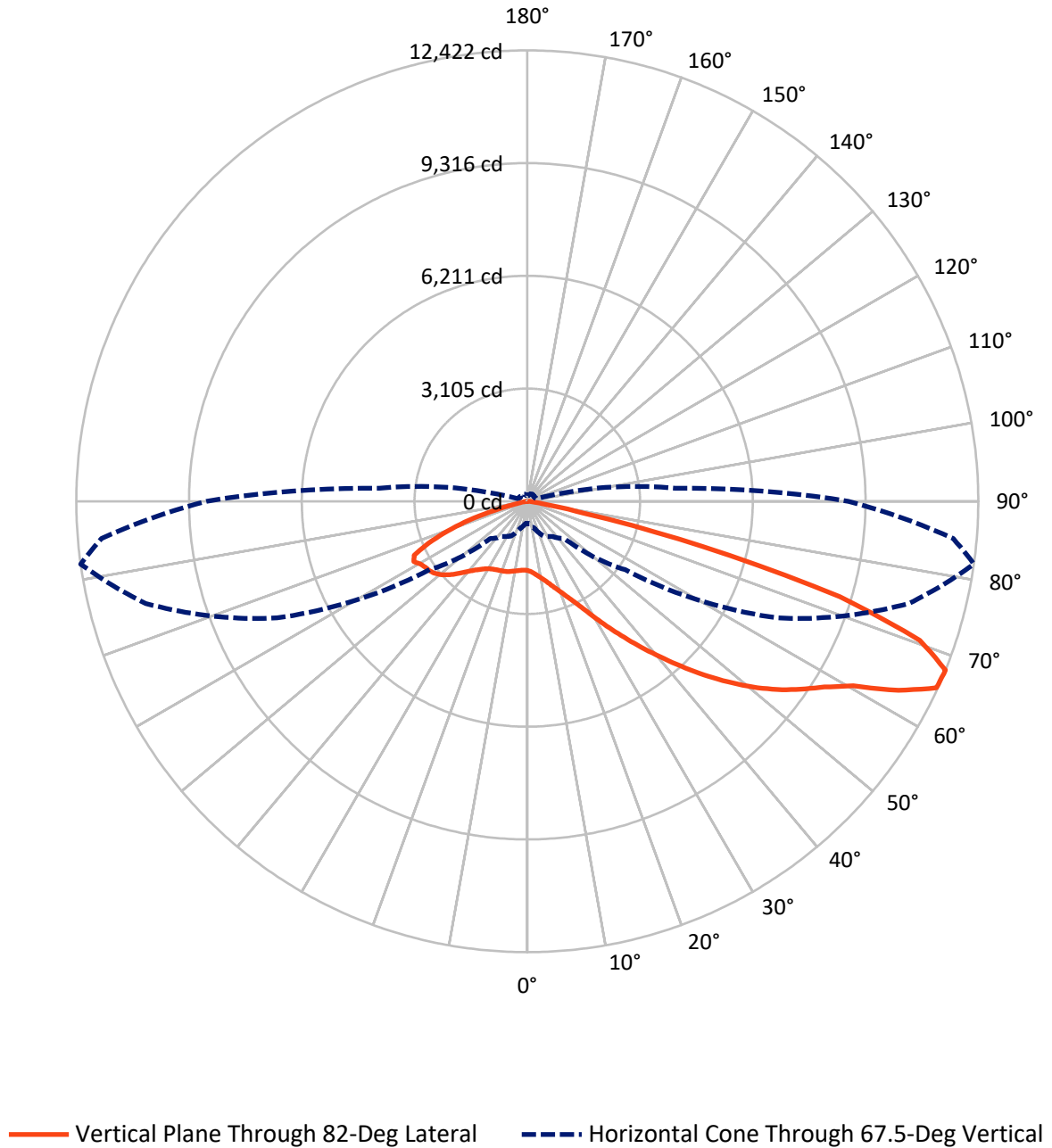
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	2085.1	0.0	2085.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9425.9	0.0	9425.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	11511.0	0.0	11511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	1.5
10°-20°	441.5	3.8
20°-30°	707.1	6.1
30°-40°	1250.4	10.9
40°-50°	2190.9	19.0
50°-60°	2922.0	25.4
60°-70°	2720.2	23.6
70°-80°	1044.0	9.1
80°-90°	64.8	0.6
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°	11511.0	100.0
0°-180°	11511.0	100.0



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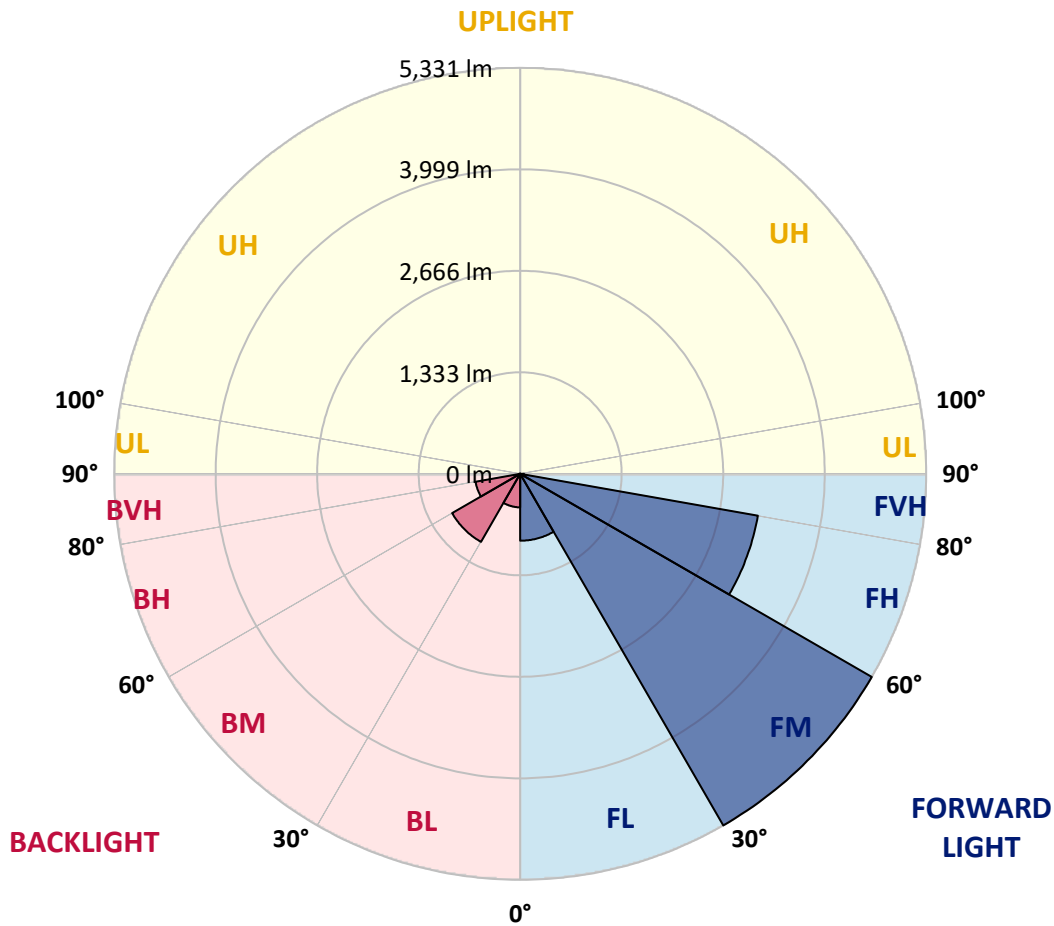
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.2	7.6			
FM (30°-60°)	5331.4	46.3			
FH (60°-80°)	3169.1	27.5			G2/5000
FVH (80°-90°)	47.1	0.4			G1/100
BL (0°-30°)	440.4	3.8	B1/500		
BM (30°-60°)	1031.9	9.0	B2/2500		
BH (60°-80°)	595.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	17.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0
2.5°	2015.6	2027.2	2020.5	2017.2	2011.4	2003.1	1996.5	1975.8	1954.2	1940.1
5°	2056.2	2067.8	2066.9	2070.2	2074.4	2076.9	2075.2	2052.0	2021.4	1997.3
7.5°	2021.4	2034.6	2045.4	2062.0	2091.0	2121.6	2136.6	2131.6	2100.1	2066.9
10°	1922.7	1936.8	1962.5	2001.5	2062.8	2129.1	2184.6	2210.3	2190.4	2154.0
12.5°	1742.1	1756.1	1806.7	1891.2	1994.0	2109.2	2215.3	2284.1	2289.0	2252.6
15°	1539.0	1553.1	1607.0	1713.1	1869.7	2054.5	2231.9	2362.0	2405.9	2374.4
17.5°	1413.0	1425.5	1466.1	1551.4	1714.7	1945.1	2226.1	2444.9	2545.1	2520.3
20°	1374.9	1385.7	1404.8	1464.4	1600.3	1831.6	2187.9	2522.8	2695.1	2681.0
22.5°	1415.5	1425.5	1431.3	1457.8	1543.2	1757.0	2139.9	2602.3	2869.2	2870.8
25°	1509.2	1519.1	1512.5	1529.1	1566.4	1733.8	2121.6	2696.0	3088.0	3106.2
27.5°	1663.3	1664.2	1648.4	1647.6	1653.4	1768.6	2140.7	2796.2	3363.9	3397.9
30°	1972.5	1960.0	1899.5	1834.1	1804.2	1873.0	2193.7	2914.8	3689.7	3750.2
32.5°	2449.0	2430.8	2319.7	2163.1	2005.6	2041.2	2289.0	3049.8	4044.4	4153.8
35°	2966.1	2961.2	2845.1	2612.3	2337.1	2280.8	2444.0	3227.2	4431.4	4605.4
37.5°	3446.8	3444.3	3378.0	3103.7	2768.9	2614.7	2692.7	3459.3	4845.8	5097.7
40°	3886.1	3893.5	3827.2	3581.9	3244.6	3043.2	3030.8	3746.0	5306.6	5633.9
42.5°	4265.6	4273.9	4206.8	4025.3	3714.5	3517.3	3446.0	4097.4	5756.6	6209.9
45°	4523.4	4574.8	4564.8	4419.8	4196.9	3992.2	3944.9	4538.3	6269.6	6820.7
47.5°	4596.3	4643.6	4718.1	4738.0	4602.1	4400.7	4457.1	5069.5	6788.4	7432.3
50°	4416.5	4460.4	4615.4	4821.7	4916.2	4854.1	4955.2	5638.9	7319.6	8042.3
52.5°	4061.8	4106.5	4302.1	4628.6	5014.0	5209.6	5454.9	6200.0	7834.3	8620.0
55°	3548.8	3596.0	3847.1	4216.7	4827.5	5356.3	5871.8	6760.2	8305.9	9139.6
57.5°	2850.9	2885.8	3146.8	3664.0	4358.5	5210.4	6179.3	7371.8	8750.1	9650.1
60°	1858.1	1888.8	2192.1	2768.9	3581.1	4723.1	6240.6	8053.9	9340.2	10314.0
62.5°	1235.7	1256.4	1436.2	1859.7	2521.9	3787.4	5881.7	8598.4	10205.4	11469.2
65°	847.8	868.5	1048.4	1343.4	1629.3	2505.3	4849.9	8526.3	10989.4	12386.7
67.5°	605.0	622.4	774.9	1053.4	1179.3	1455.3	3287.7	7604.7	10876.7	12421.5
70°	433.4	443.4	569.4	820.5	937.3	874.3	1828.3	5816.3	9523.3	11470.1
72.5°	303.3	306.6	395.3	624.9	755.0	638.1	870.2	3877.8	7202.8	9002.9
75°	205.5	209.7	266.0	458.3	605.8	487.3	460.8	2079.4	4228.3	4983.4
77.5°	126.0	127.6	171.6	313.3	453.3	371.3	296.7	881.0	1636.0	1606.1
80°	71.3	71.3	109.4	194.8	309.1	239.5	208.0	374.6	518.0	455.0
82.5°	39.8	40.6	79.6	121.0	204.7	141.7	114.4	173.2	223.8	198.1
85°	16.6	18.2	48.9	57.2	97.8	70.4	46.4	72.9	82.9	73.8
87.5°	1.7	2.5	14.9	10.8	11.6	14.1	6.6	14.1	11.6	11.6
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°
1907.0	0°	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0	1907.0
1935.2	2.5°	1919.4	1907.0	1875.5	1839.0	1791.0	1767.8	1736.3	1714.7	1696.5	1698.1
1983.2	5°	1956.7	1925.2	1854.8	1766.9	1657.5	1579.6	1496.7	1439.6	1393.2	1383.2
2049.5	7.5°	2008.1	1958.4	1834.9	1676.6	1491.8	1351.7	1226.6	1146.2	1089.0	1070.8
2129.9	10°	2074.4	2002.3	1809.2	1563.0	1297.0	1118.8	984.6	921.6	882.6	869.4
2224.4	12.5°	2151.5	2052.8	1775.2	1424.6	1096.5	924.9	839.5	808.0	795.6	791.5
2340.4	15°	2248.4	2115.8	1723.8	1260.5	926.6	806.4	769.9	765.8	767.4	765.8
2479.7	17.5°	2363.6	2184.6	1640.1	1091.5	812.2	745.9	732.6	735.9	740.1	739.3
2635.5	20°	2489.6	2252.6	1533.2	941.5	734.3	702.8	695.3	698.6	702.0	700.3
2815.3	22.5°	2633.0	2325.5	1414.7	824.6	682.1	663.0	654.7	655.6	655.6	652.2
3043.2	25°	2804.5	2405.9	1290.4	741.7	642.3	627.4	617.4	614.1	609.1	599.2
3320.0	27.5°	3009.2	2491.3	1171.0	683.7	610.8	596.7	585.1	576.8	564.4	547.8
3652.4	30°	3239.6	2594.9	1069.9	647.3	585.9	571.8	558.6	546.2	527.9	507.2
4034.4	32.5°	3510.6	2705.9	996.2	623.2	563.6	548.6	532.9	518.0	498.1	477.4
4463.7	35°	3833.9	2840.2	953.1	606.7	546.2	526.3	508.9	492.3	477.4	459.1
4930.3	37.5°	4184.4	2982.7	939.8	598.4	534.6	503.9	484.0	472.4	470.7	460.0
5435.0	40°	4568.1	3151.8	949.8	593.4	522.1	482.3	460.8	458.3	462.4	443.4
5974.6	42.5°	4974.2	3352.3	966.3	587.6	504.7	460.8	440.1	440.1	436.8	410.2
6544.7	45°	5413.5	3583.6	982.9	573.5	484.0	439.2	423.5	417.7	403.6	377.9
7118.2	47.5°	5856.0	3818.9	995.3	547.8	459.1	421.0	406.9	393.7	372.9	349.7
7681.0	50°	6276.2	4030.3	982.1	509.7	431.0	403.6	388.7	370.5	348.1	332.3
8213.9	52.5°	6651.7	4213.4	925.7	464.9	401.1	385.4	372.1	353.1	334.8	318.2
8694.6	55°	6978.2	4361.8	826.3	422.7	374.6	369.6	356.4	332.3	307.5	293.4
9171.1	57.5°	7291.5	4474.5	702.0	387.9	350.6	352.2	332.3	310.8	287.6	272.7
9813.4	60°	7708.3	4625.3	576.0	355.5	324.9	329.8	308.3	292.6	263.5	244.5
10914.8	62.5°	8374.6	4859.9	457.5	315.8	295.0	296.7	287.6	268.5	233.7	211.3
11731.1	65°	8903.4	4773.7	360.5	272.7	261.1	263.5	263.5	242.8	205.5	179.8
11775.1	67.5°	8843.7	4087.5	287.6	230.4	228.7	230.4	236.2	218.8	182.3	161.6
10878.3	70°	8146.7	3251.2	230.4	191.4	198.9	194.8	211.3	199.7	164.1	143.4
8433.5	72.5°	6647.5	2342.1	175.7	158.3	152.5	159.1	190.6	179.8	136.7	113.5
4467.0	75°	3884.4	1249.8	130.9	125.1	110.2	132.6	169.1	153.3	104.4	83.7
1369.1	77.5°	1264.7	435.9	96.1	92.0	82.0	106.9	144.2	129.3	85.4	66.3
401.1	80°	339.0	131.8	65.5	60.5	53.0	79.6	114.4	102.8	61.3	43.1
172.4	82.5°	135.9	55.5	38.1	34.0	29.0	54.7	90.3	82.9	45.6	27.3
53.9	85°	43.9	18.2	14.1	10.8	13.3	34.0	53.9	56.4	32.3	14.1
8.3	87.5°	5.8	2.5	2.5	3.3	2.5	5.8	16.6	15.7	9.1	1.7
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>
1907.0
1681.6
1360.8
1052.5
859.4
789.0
764.9
737.6
699.5
650.6
597.5
546.2
505.5
478.2
457.5
459.1
444.2
410.2
377.1
348.9
329.8
316.6
291.7
271.0
242.0
209.7
177.4
158.3
140.9
111.1
81.2
63.8
42.3
27.3
10.8
0.0
0.0

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