

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: P942914

Luminaire Tested: **GALN-SB7A-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942914
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-SB7A-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 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: 14180 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

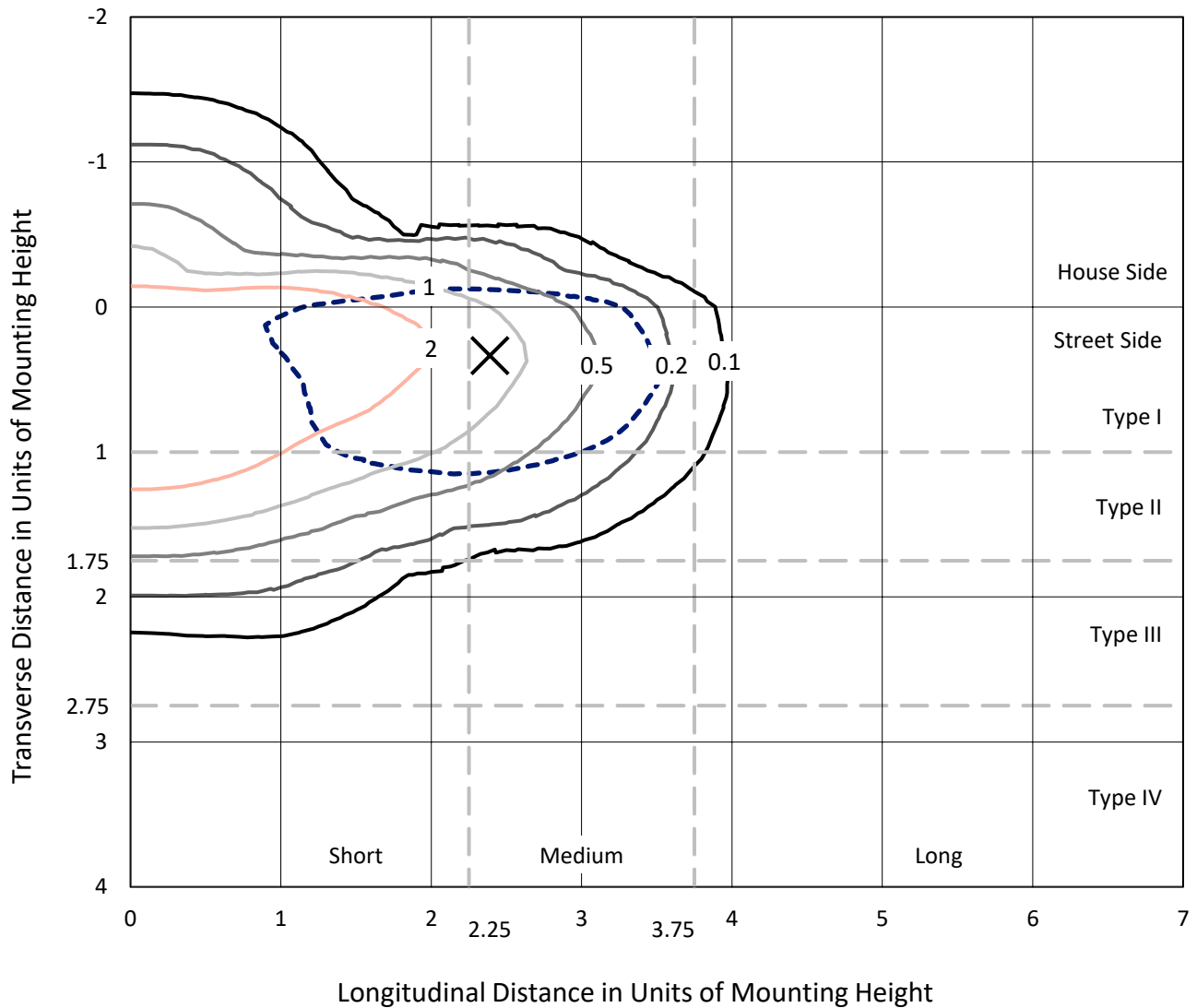
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

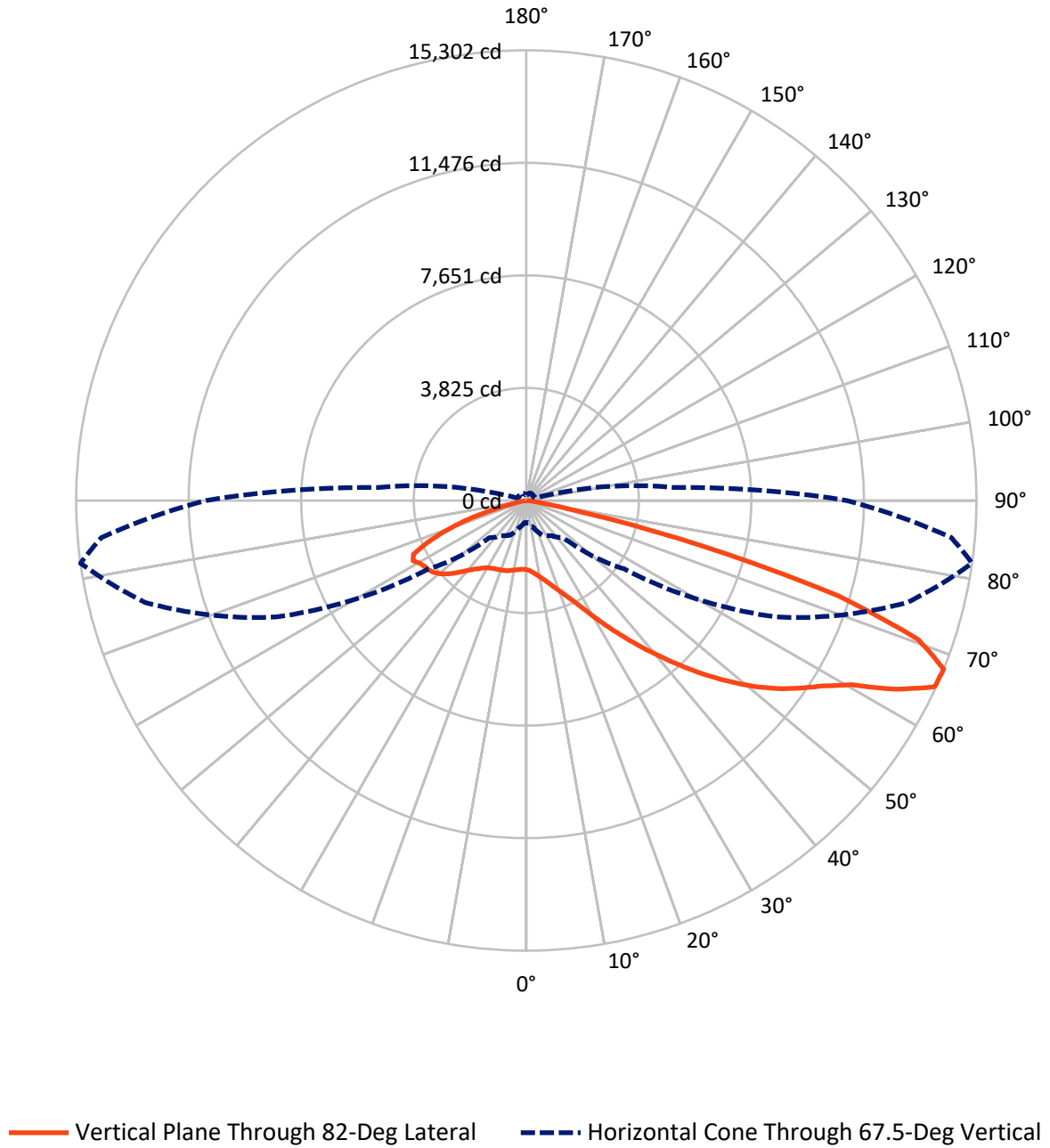
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2568.6	0.0	2568.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11611.4	0.0	11611.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	14180.0	0.0	14180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	1.5
10°-20°	543.9	3.8
20°-30°	871.1	6.1
30°-40°	1540.4	10.9
40°-50°	2698.9	19.0
50°-60°	3599.5	25.4
60°-70°	3351.0	23.6
70°-80°	1286.1	9.1
80°-90°	79.9	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°	14180.0	100.0
0°-180°	14180.0	100.0

Coefficient of Utilization



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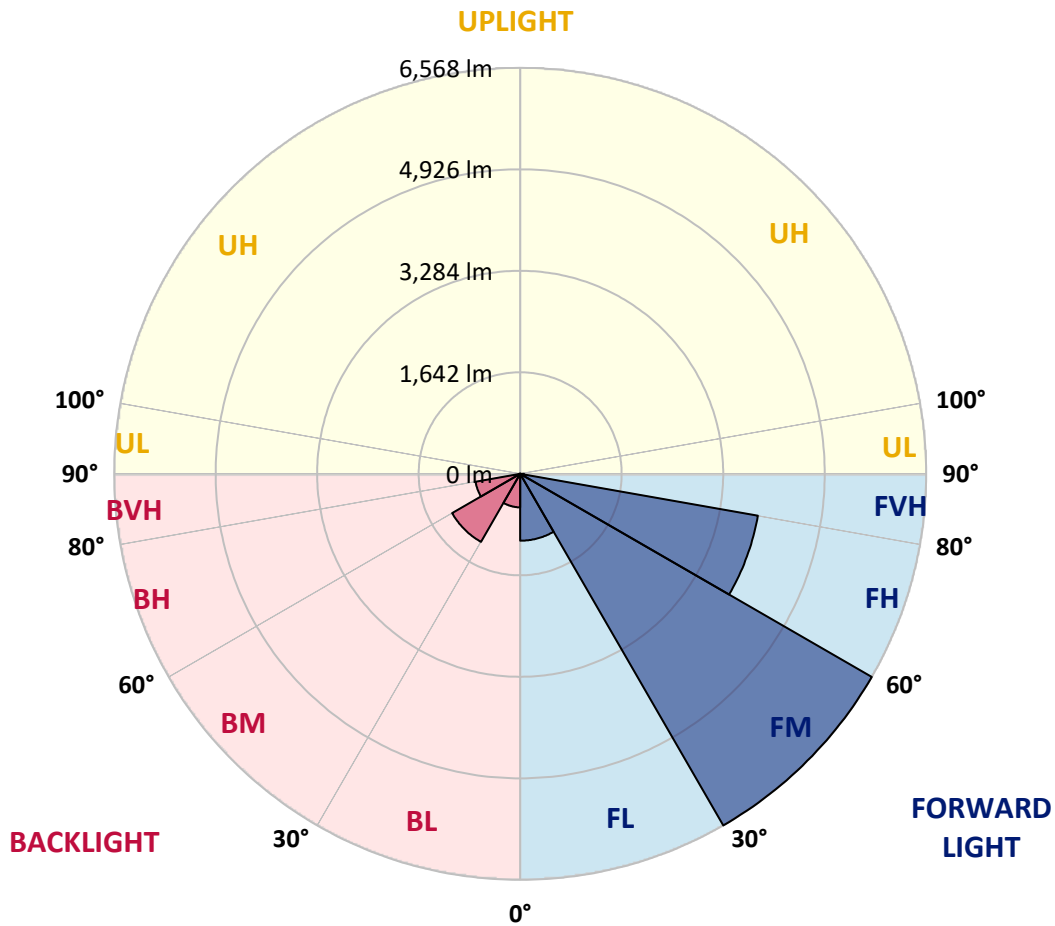
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1081.8	7.6			
FM (30°-60°)	6567.6	46.3			
FH (60°-80°)	3904.0	27.5			G2/5000
FVH (80°-90°)	58.1	0.4			G1/100
BL (0°-30°)	542.5	3.8	B2/1000		
BM (30°-60°)	1271.2	9.0	B2/2500		
BH (60°-80°)	733.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	21.8	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°	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1
2.5°	2482.9	2497.2	2489.0	2484.9	2477.8	2467.6	2459.4	2433.9	2407.3	2390.0
5°	2532.9	2547.2	2546.2	2550.3	2555.4	2558.4	2556.4	2527.8	2490.0	2460.4
7.5°	2490.0	2506.4	2519.6	2540.1	2575.8	2613.6	2631.9	2625.8	2587.0	2546.2
10°	2368.5	2385.9	2417.5	2465.5	2541.1	2622.8	2691.2	2722.8	2698.3	2653.4
12.5°	2146.0	2163.3	2225.6	2329.7	2456.3	2598.3	2728.9	2813.7	2819.8	2774.9
15°	1895.9	1913.2	1979.6	2110.2	2303.2	2530.9	2749.3	2909.6	2963.7	2924.9
17.5°	1740.7	1756.0	1806.0	1911.2	2112.3	2396.1	2742.2	3011.7	3135.3	3104.6
20°	1693.7	1707.0	1730.5	1804.0	1971.4	2256.2	2695.2	3107.7	3320.0	3302.7
22.5°	1743.7	1756.0	1763.1	1795.8	1901.0	2164.4	2636.0	3205.7	3534.4	3536.5
25°	1859.1	1871.4	1863.2	1883.6	1929.5	2135.8	2613.6	3321.1	3804.0	3826.4
27.5°	2049.0	2050.0	2030.6	2029.6	2036.7	2178.7	2637.0	3444.6	4143.9	4185.8
30°	2429.8	2414.5	2340.0	2259.3	2222.6	2307.3	2702.4	3590.6	4545.2	4619.7
32.5°	3016.8	2994.4	2857.6	2664.6	2470.6	2514.5	2819.8	3757.0	4982.1	5116.9
35°	3653.9	3647.8	3504.8	3218.0	2879.0	2809.6	3010.7	3975.5	5458.9	5673.3
37.5°	4246.0	4243.0	4161.3	3823.4	3410.9	3221.0	3317.0	4261.3	5969.3	6279.7
40°	4787.1	4796.3	4714.6	4412.4	3996.9	3748.8	3733.5	4614.6	6537.0	6940.2
42.5°	5254.7	5264.9	5182.2	4958.6	4575.8	4332.8	4245.0	5047.4	7091.3	7649.8
45°	5572.2	5635.5	5623.2	5444.6	5170.0	4917.8	4859.6	5590.6	7723.3	8402.2
47.5°	5662.0	5720.2	5812.1	5836.6	5669.2	5421.1	5490.5	6245.0	8362.4	9155.6
50°	5440.5	5494.6	5685.5	5939.7	6056.1	5979.6	6104.1	6946.4	9016.8	9907.0
52.5°	5003.5	5058.7	5299.6	5701.9	6176.6	6417.5	6719.7	7637.5	9650.8	10618.6
55°	4371.6	4429.8	4739.1	5194.5	5946.9	6598.2	7233.2	8327.7	10231.7	11258.7
57.5°	3512.0	3554.9	3876.4	4513.5	5369.0	6418.5	7612.0	9081.1	10778.9	11887.6
60°	2288.9	2326.7	2700.3	3410.9	4411.4	5818.2	7687.6	9921.3	11505.8	12705.4
62.5°	1522.2	1547.7	1769.3	2291.0	3106.7	4665.6	7245.5	10592.1	12571.7	14128.6
65°	1044.4	1069.9	1291.5	1654.9	2007.1	3086.3	5974.4	10503.3	13537.5	15258.7
67.5°	745.3	766.7	954.6	1297.6	1452.8	1792.7	4050.0	9368.0	13398.6	15301.6
70°	533.9	546.2	701.4	1010.7	1154.7	1077.1	2252.2	7164.8	11731.4	14129.6
72.5°	373.7	377.7	487.0	769.8	930.1	786.1	1072.0	4776.9	8872.9	11090.3
75°	253.2	258.3	327.7	564.6	746.3	600.3	567.6	2561.5	5208.8	6138.8
77.5°	155.2	157.2	211.3	385.9	558.4	457.4	365.5	1085.2	2015.3	1978.6
80°	87.8	87.8	134.8	239.9	380.8	295.0	256.3	461.5	638.1	560.5
82.5°	49.0	50.0	98.0	149.1	252.2	174.6	140.9	213.4	275.6	244.0
85°	20.4	22.5	60.2	70.4	120.5	86.8	57.2	89.8	102.1	90.9
87.5°	2.0	3.1	18.4	13.3	14.3	17.4	8.2	17.4	14.3	14.3
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°
2349.1	0°	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1	2349.1
2383.9	2.5°	2364.5	2349.1	2310.4	2265.4	2206.2	2177.6	2138.8	2112.3	2089.8	2091.9
2443.1	5°	2410.4	2371.6	2284.8	2176.6	2041.8	1945.9	1843.8	1773.3	1716.2	1703.9
2524.7	7.5°	2473.7	2412.4	2260.3	2065.3	1837.7	1665.1	1511.0	1411.9	1341.5	1319.0
2623.8	10°	2555.4	2466.6	2228.7	1925.5	1597.7	1378.2	1212.9	1135.3	1087.3	1070.9
2740.2	12.5°	2650.3	2528.8	2186.8	1755.0	1350.7	1139.4	1034.2	995.4	980.1	975.0
2883.1	15°	2769.8	2606.4	2123.5	1552.8	1141.4	993.4	948.4	943.3	945.4	943.3
3054.6	17.5°	2911.7	2691.2	2020.4	1344.6	1000.5	918.8	902.5	906.6	911.7	910.7
3246.5	20°	3066.9	2774.9	1888.7	1159.8	904.5	865.7	856.6	860.6	864.7	862.7
3468.1	22.5°	3243.5	2864.7	1742.7	1015.8	840.2	816.7	806.5	807.6	807.6	803.5
3748.8	25°	3454.8	2963.7	1589.6	913.7	791.2	772.8	760.6	756.5	750.4	738.1
4089.8	27.5°	3707.0	3068.9	1442.6	842.3	752.4	735.1	720.8	710.6	695.2	674.8
4499.2	30°	3990.8	3196.5	1318.0	797.3	721.8	704.4	688.1	672.8	650.3	624.8
4969.9	32.5°	4324.6	3333.3	1227.2	767.7	694.2	675.9	656.5	638.1	613.6	588.1
5498.7	35°	4722.8	3498.7	1174.1	747.3	672.8	648.3	626.8	606.4	588.1	565.6
6073.5	37.5°	5154.6	3674.3	1157.7	737.1	658.5	620.7	596.2	581.9	579.9	566.6
6695.2	40°	5627.3	3882.6	1170.0	731.0	643.2	594.2	567.6	564.6	569.7	546.2
7359.8	42.5°	6127.6	4129.6	1190.4	723.8	621.7	567.6	542.1	542.1	538.0	505.4
8062.2	45°	6668.7	4414.5	1210.8	706.5	596.2	541.1	521.7	514.5	497.2	465.5
8768.7	47.5°	7213.8	4704.4	1226.1	674.8	565.6	518.6	501.3	484.9	459.4	430.8
9461.9	50°	7731.5	4964.8	1209.8	627.9	530.9	497.2	478.8	456.4	428.8	409.4
10118.4	52.5°	8193.9	5190.4	1140.4	572.7	494.1	474.7	458.4	434.9	412.5	392.0
10710.5	55°	8596.2	5373.1	1017.9	520.7	461.5	455.3	439.0	409.4	378.8	361.4
11297.5	57.5°	8982.1	5512.0	864.7	477.8	431.9	433.9	409.4	382.8	354.3	335.9
12088.8	60°	9495.6	5697.8	709.5	438.0	400.2	406.3	379.8	360.4	324.7	301.2
13445.6	62.5°	10316.4	5986.7	563.6	389.0	363.4	365.5	354.3	330.8	287.9	260.3
14451.2	65°	10967.8	5880.5	444.1	335.9	321.6	324.7	324.7	299.1	253.2	221.5
14505.3	67.5°	10894.3	5035.2	354.3	283.8	281.8	283.8	291.0	269.5	224.6	199.1
13400.6	70°	10035.7	4005.1	283.8	235.8	245.0	239.9	260.3	246.0	202.1	176.6
10388.9	72.5°	8188.8	2885.1	216.4	195.0	187.9	196.0	234.8	221.5	168.5	139.9
5502.8	75°	4785.1	1539.6	161.3	154.2	135.8	163.3	208.3	188.9	128.6	103.1
1686.6	77.5°	1557.9	537.0	118.4	113.3	101.1	131.7	177.6	159.3	105.2	81.7
494.1	80°	417.6	162.3	80.7	74.5	65.3	98.0	140.9	126.6	75.5	53.1
212.4	82.5°	167.4	68.4	47.0	41.9	35.7	67.4	111.3	102.1	56.2	33.7
66.4	85°	54.1	22.5	17.4	13.3	16.3	41.9	66.4	69.4	39.8	17.4
10.2	87.5°	7.1	3.1	3.1	4.1	3.1	7.1	20.4	19.4	11.2	2.0
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>
2349.1
2071.5
1676.4
1296.6
1058.7
971.9
942.3
908.6
861.7
801.4
736.1
672.8
622.8
589.1
563.6
565.6
547.2
505.4
464.5
429.8
406.3
390.0
359.4
333.8
298.1
258.3
218.5
195.0
173.6
136.8
100.1
78.6
52.1
33.7
13.3
0.0
0.0

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