

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: P954063

Luminaire Tested: **GALN-SB7B-935-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954063
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-SB7B-935-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28375 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

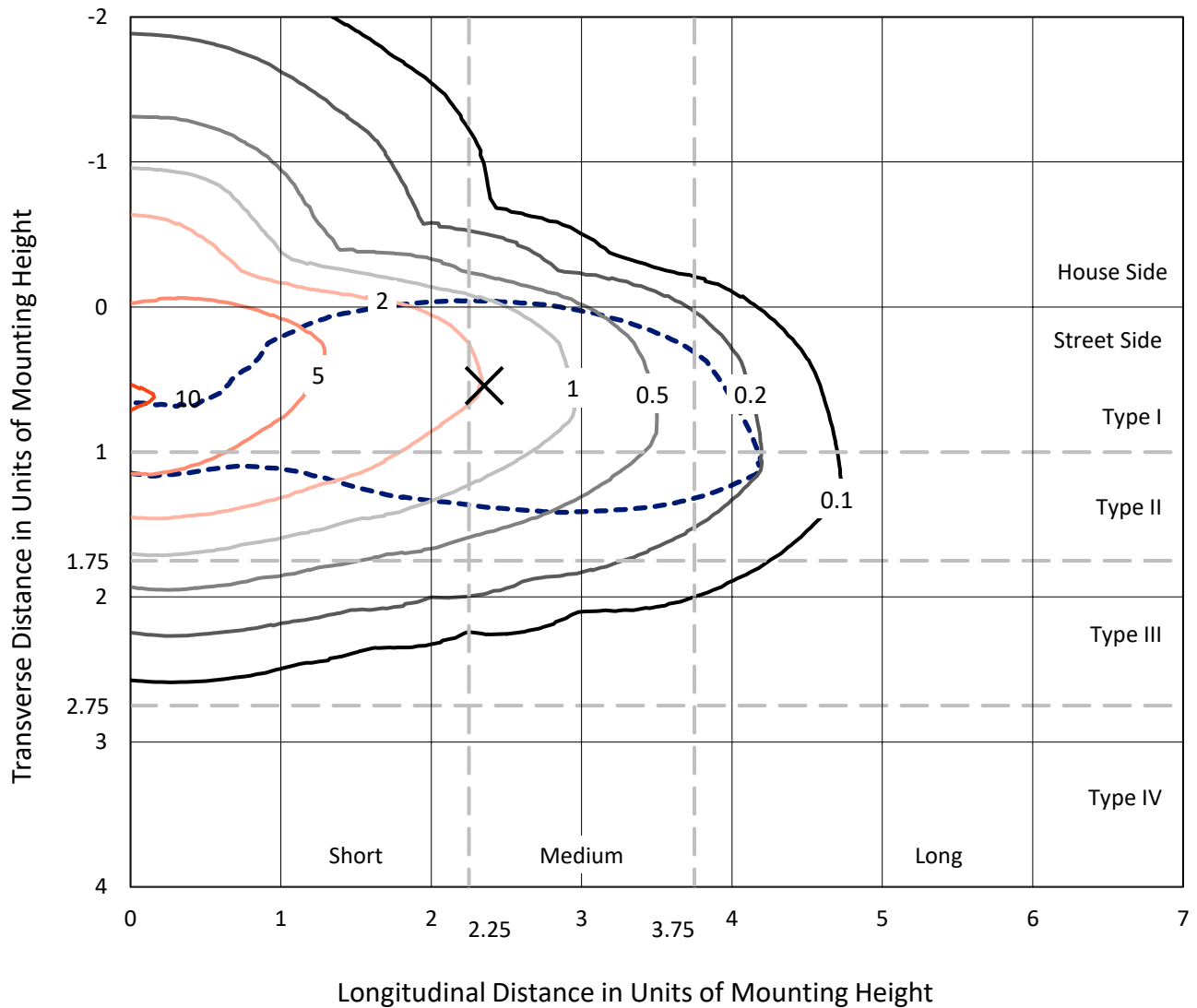
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

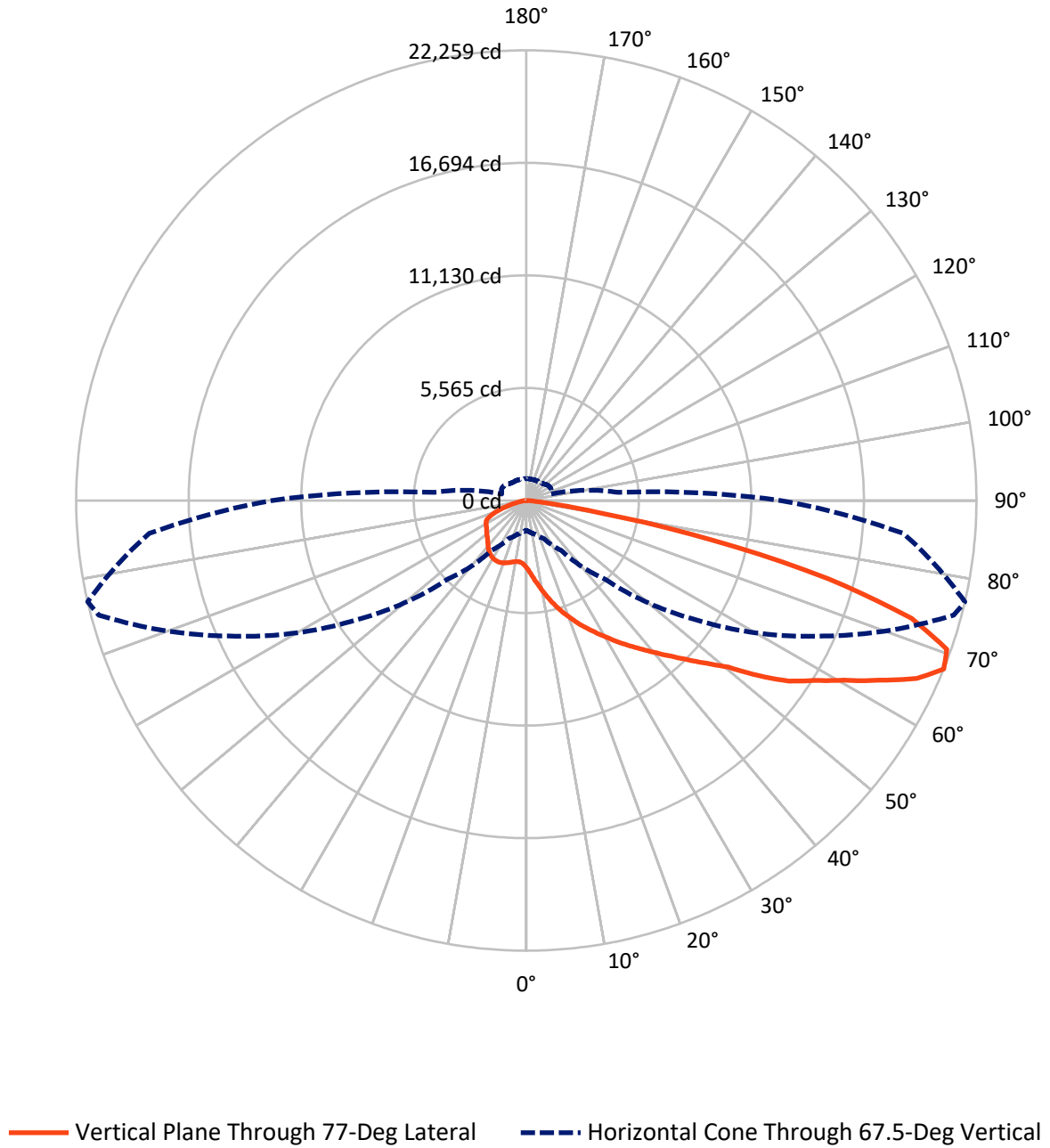
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	5367.4	0.0	5367.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	23007.6	0.0	23007.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	28375.0	0.0	28375.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.9	1.3
10°-20°	1282.0	4.5
20°-30°	2420.6	8.5
30°-40°	3899.5	13.7
40°-50°	5333.9	18.8
50°-60°	6016.6	21.2
60°-70°	5615.8	19.8
70°-80°	3078.4	10.8
80°-90°	371.3	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°	28375.0	100.0
0°-180°	28375.0	100.0



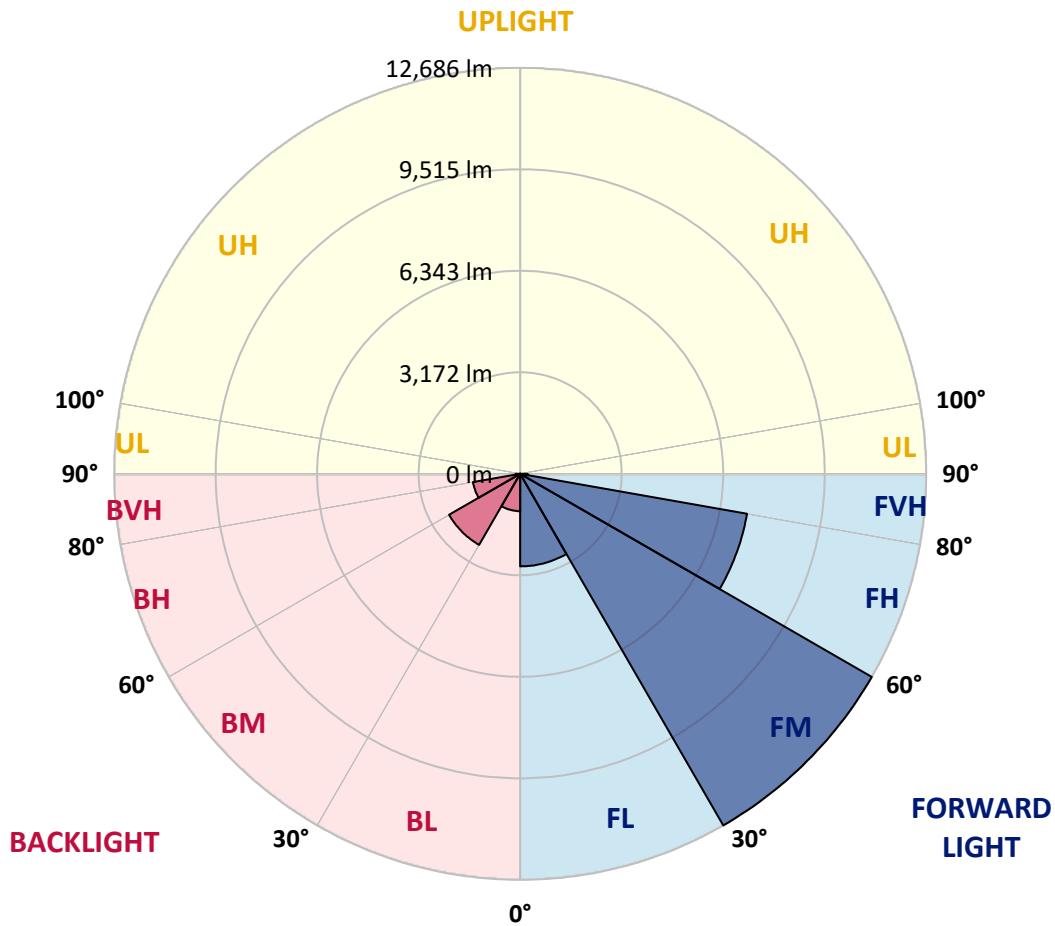
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2892.5	10.2			
FM (30°-60°)	12686.2	44.7			
FH (60°-80°)	7196.7	25.4			G3/7500
FVH (80°-90°)	232.2	0.8			G3/500
BL (0°-30°)	1167.0	4.1	B3/2500		
BM (30°-60°)	2563.9	9.0	B3/5000		
BH (60°-80°)	1497.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	139.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3
2.5°	4168.5	4197.8	4161.2	4161.2	4038.2	3973.7	3850.7	3757.0	3588.5	3559.2
5°	4927.3	4963.9	4912.6	4890.6	4745.6	4612.3	4405.8	4202.2	3902.0	3871.2
7.5°	5514.6	5561.5	5516.1	5492.6	5363.7	5214.3	4972.7	4688.5	4265.2	4205.2
10°	5993.6	6000.9	5986.2	5995.0	5894.0	5770.9	5523.4	5192.4	4663.6	4581.6
12.5°	6264.5	6298.2	6327.5	6380.2	6362.7	6286.5	6063.9	5668.4	5085.4	4980.0
15°	6392.0	6450.6	6516.5	6638.0	6736.2	6755.2	6585.3	6179.6	5514.6	5387.2
17.5°	6437.4	6493.0	6597.0	6772.8	6983.7	7125.8	7049.6	6676.1	5939.4	5792.9
20°	6667.3	6683.4	6746.4	6913.4	7141.9	7377.7	7434.8	7153.6	6359.7	6194.2
22.5°	7159.5	7127.2	7144.8	7221.0	7385.0	7613.5	7743.9	7575.4	6791.8	6601.4
25°	7972.4	7878.6	7784.9	7697.0	7780.5	7909.4	8057.3	7997.3	7244.4	7002.7
27.5°	8999.1	8884.9	8678.4	8389.8	8288.8	8334.2	8400.1	8388.4	7663.3	7418.7
30°	10009.8	9876.5	9630.4	9213.0	8946.4	8826.3	8776.5	8742.8	8118.8	7858.1
32.5°	10816.8	10711.4	10469.7	10002.5	9615.8	9410.7	9245.2	9125.1	8594.9	8334.2
35°	11522.8	11424.7	11147.9	10638.1	10217.8	9999.5	9782.7	9526.4	9089.9	8826.3
37.5°	12167.3	12069.1	11689.8	11159.6	10736.3	10585.4	10392.1	9957.0	9586.5	9337.5
40°	12574.5	12552.5	12198.0	11597.5	11158.1	11083.4	11019.0	10456.5	10137.2	9905.8
42.5°	12678.5	12726.8	12445.6	11952.0	11533.1	11473.0	11623.9	11021.9	10755.3	10534.1
45°	12428.0	12567.1	12382.6	12047.2	11799.6	11767.4	12160.0	11640.0	11439.3	11237.2
47.5°	11793.8	12029.6	11953.4	11906.6	11871.4	12010.6	12631.6	12296.2	12214.2	12038.4
50°	10513.6	10960.4	11093.7	11389.5	11729.3	12199.5	13060.8	13012.4	13119.3	12942.1
52.5°	8300.5	8915.6	9689.0	10430.1	11292.9	12136.5	13532.4	14040.6	14491.8	14395.1
55°	6851.9	7128.7	7723.4	9082.6	10446.3	11871.4	13744.8	14871.1	15853.9	15767.5
57.5°	5738.7	5986.2	6352.4	7487.6	9166.1	11269.4	13876.6	15377.9	16787.0	16778.2
60°	4545.0	4807.2	5182.1	5986.2	7670.6	10229.5	13847.3	15955.0	17977.8	18051.0
62.5°	3197.4	3486.0	3902.0	4651.9	6143.0	8882.0	13249.7	16372.4	19379.5	19578.7
65°	2101.8	2292.3	2605.7	3253.1	4577.2	7149.2	12108.7	16426.6	20879.3	21216.2
67.5°	1473.5	1546.7	1731.3	2082.8	3017.3	5482.4	10291.0	15865.7	21879.7	22259.1
70°	1149.8	1186.4	1280.2	1420.8	1895.3	3686.7	7886.0	14406.8	21665.9	22061.4
72.5°	993.1	1028.2	1063.4	1081.0	1271.4	2276.1	5341.8	12045.7	19651.9	19920.0
75°	900.8	909.6	938.9	933.0	969.6	1476.4	3083.2	8776.5	15505.3	15413.1
77.5°	757.3	769.0	817.3	810.0	861.2	1009.2	1600.9	5664.0	10052.3	9425.4
80°	641.5	647.4	700.1	691.3	748.5	730.9	817.3	2886.9	4263.7	3612.0
82.5°	222.6	275.4	534.6	550.7	571.2	442.3	471.6	1177.6	1302.1	997.5
85°	108.4	115.7	272.4	386.7	385.2	222.6	230.0	420.4	410.1	322.2
87.5°	17.6	22.0	32.2	150.9	120.1	58.6	79.1	82.0	85.0	73.2
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°
3329.3	0°	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3
3447.9	2.5°	3365.9	3292.7	3138.9	2996.8	2885.5	2778.5	2718.5	2667.2	2637.9	2632.1
3609.0	5°	3456.7	3305.8	3026.1	2790.3	2636.5	2522.2	2462.2	2424.1	2405.0	2393.3
3825.8	7.5°	3587.1	3365.9	2967.5	2699.4	2538.3	2456.3	2425.5	2419.7	2418.2	2419.7
4088.0	10°	3767.2	3464.0	2961.6	2677.5	2542.7	2497.3	2495.9	2497.3	2503.2	2504.6
4373.6	12.5°	3962.0	3565.1	2985.1	2696.5	2598.4	2573.5	2569.1	2567.6	2572.0	2574.9
4662.1	15°	4174.4	3698.4	3024.6	2737.5	2659.9	2633.5	2629.1	2620.4	2618.9	2617.4
4965.3	17.5°	4392.6	3830.2	3068.6	2781.5	2699.4	2662.8	2646.7	2626.2	2610.1	2605.7
5278.8	20°	4613.8	3960.6	3099.3	2803.4	2702.4	2651.1	2618.9	2583.7	2555.9	2539.8
5595.2	22.5°	4849.6	4096.8	3118.4	2797.6	2676.0	2605.7	2547.1	2506.1	2463.6	2435.8
5914.5	25°	5079.6	4215.4	3116.9	2766.8	2624.7	2535.4	2460.7	2408.0	2349.4	2320.1
6244.0	27.5°	5300.8	4322.3	3080.3	2712.6	2551.5	2451.9	2362.6	2299.6	2242.5	2214.6
6576.5	30°	5529.3	4411.7	3023.1	2633.5	2465.1	2355.2	2257.1	2202.9	2151.6	2125.3
6928.0	32.5°	5756.3	4493.7	2942.6	2535.4	2365.5	2260.0	2163.4	2113.6	2082.8	2082.8
7305.9	35°	5996.5	4550.8	2835.7	2421.2	2260.0	2159.0	2082.8	2053.5	2050.6	2033.0
7705.8	37.5°	6249.9	4587.4	2705.3	2304.0	2156.0	2060.8	2037.4	2002.2	1973.0	1934.9
8145.2	40°	6516.5	4624.1	2548.6	2182.4	2046.2	1993.5	1983.2	1936.3	1852.8	1759.1
8643.2	42.5°	6840.2	4649.0	2386.0	2060.8	1930.5	1912.9	1927.5	1847.0	1713.7	1643.4
9243.7	45°	7215.1	4690.0	2236.6	1940.7	1811.8	1811.8	1873.4	1767.9	1658.0	1614.1
9929.2	47.5°	7701.4	4785.2	2097.5	1808.9	1702.0	1731.3	1753.2	1672.7	1611.2	1557.0
10764.1	50°	8404.5	5013.7	1953.9	1675.6	1618.5	1677.1	1646.3	1599.5	1527.7	1483.7
12091.1	52.5°	9277.4	5148.4	1826.5	1555.5	1546.7	1605.3	1561.4	1517.4	1463.2	1404.6
13097.4	55°	9872.1	5173.3	1719.6	1467.6	1498.4	1492.5	1476.4	1436.9	1407.6	1329.9
14090.4	57.5°	10537.1	5223.1	1631.7	1414.9	1467.6	1403.2	1397.3	1363.6	1325.6	1272.8
15301.7	60°	11332.4	5300.8	1555.5	1394.4	1441.3	1344.6	1315.3	1302.1	1264.0	1237.7
16759.1	62.5°	12199.5	5371.1	1477.9	1397.3	1410.5	1287.5	1243.5	1239.1	1215.7	1206.9
18127.2	65°	12791.2	5179.2	1381.2	1394.4	1362.2	1228.9	1173.2	1171.8	1152.7	1149.8
18720.4	67.5°	12584.7	4571.3	1250.9	1353.4	1312.4	1170.3	1108.8	1102.9	1078.0	1079.5
18100.8	70°	11550.6	3704.2	1070.7	1252.3	1250.9	1117.6	1041.4	1022.4	988.7	994.5
15738.2	72.5°	9611.4	2744.9	829.0	1083.9	1152.7	1069.2	963.8	933.0	890.5	896.4
11618.0	75°	6941.2	1866.0	603.5	824.6	1003.3	1012.1	887.6	834.9	783.6	792.4
6466.7	77.5°	3551.9	1057.5	443.8	568.3	788.0	919.8	818.8	748.5	736.7	818.8
1864.6	80°	1158.6	530.2	307.6	398.4	517.0	752.9	717.7	637.1	634.2	653.3
391.1	82.5°	345.7	224.1	197.7	262.2	285.6	577.1	619.6	481.9	414.5	436.5
130.4	85°	118.6	108.4	112.8	130.4	136.2	338.3	433.6	319.3	301.7	332.5
29.3	87.5°	27.8	38.1	32.2	29.3	29.3	82.0	168.4	133.3	184.6	123.0
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>
3329.3
2632.1
2391.9
2424.1
2506.1
2576.4
2616.0
2610.1
2545.7
2437.3
2320.1
2213.2
2123.8
2084.3
2028.6
1929.0
1745.9
1644.9
1621.4
1555.5
1479.3
1392.9
1331.4
1255.3
1245.0
1206.9
1148.3
1079.5
1000.4
894.9
795.3
807.1
561.0
451.1
328.1
118.6
0.0

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