

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: P950514

Luminaire Tested: **GALN-SB4D-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950514
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-SB4D-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30101 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

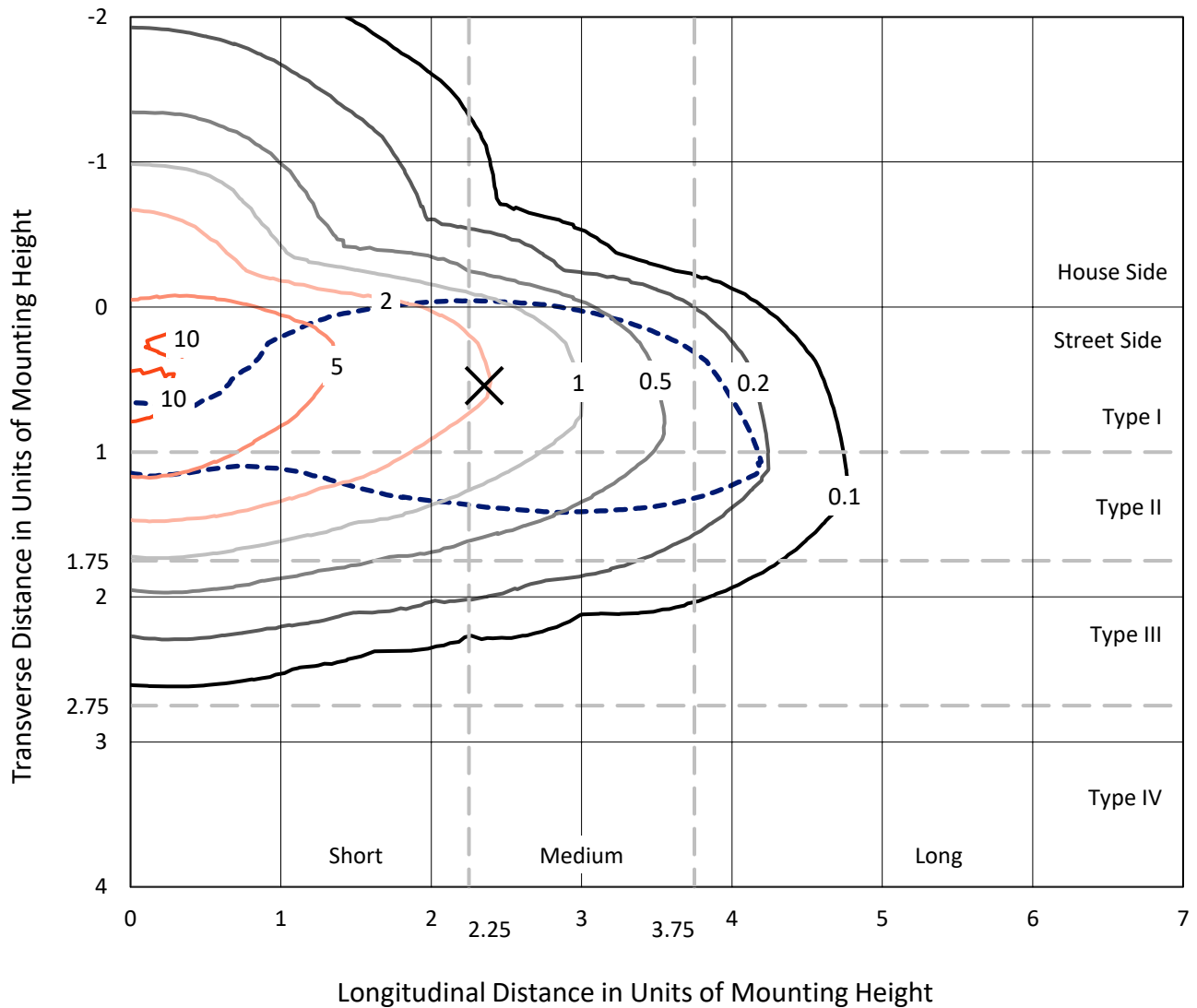
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

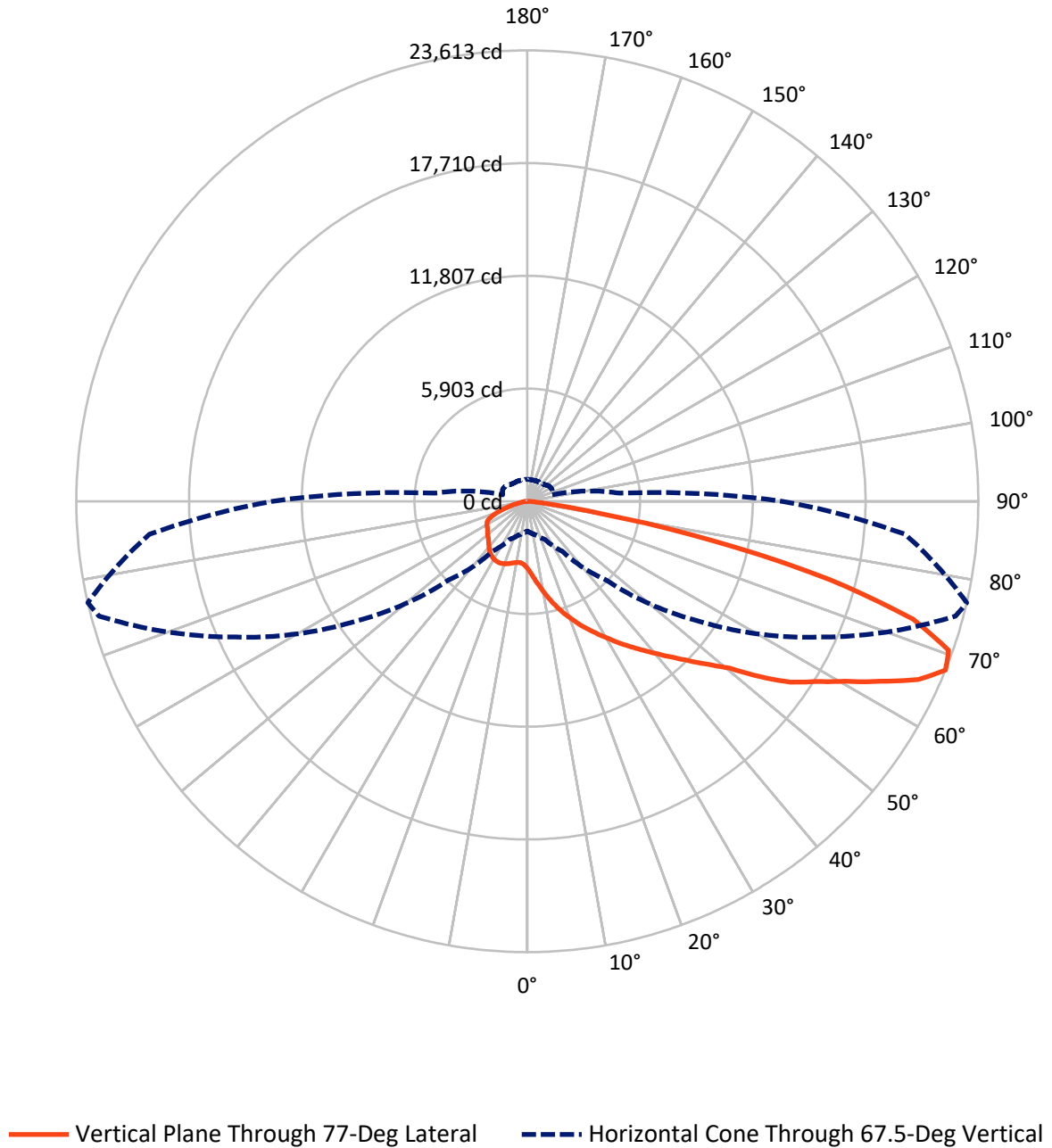
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	5693.9	0.0	5693.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	24407.1	0.0	24407.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	30101.0	0.0	30101.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.6	1.3
10°-20°	1360.0	4.5
20°-30°	2567.8	8.5
30°-40°	4136.7	13.7
40°-50°	5658.3	18.8
50°-60°	6382.6	21.2
60°-70°	5957.4	19.8
70°-80°	3265.6	10.8
80°-90°	393.9	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°	30101.0	100.0
0°-180°	30101.0	100.0

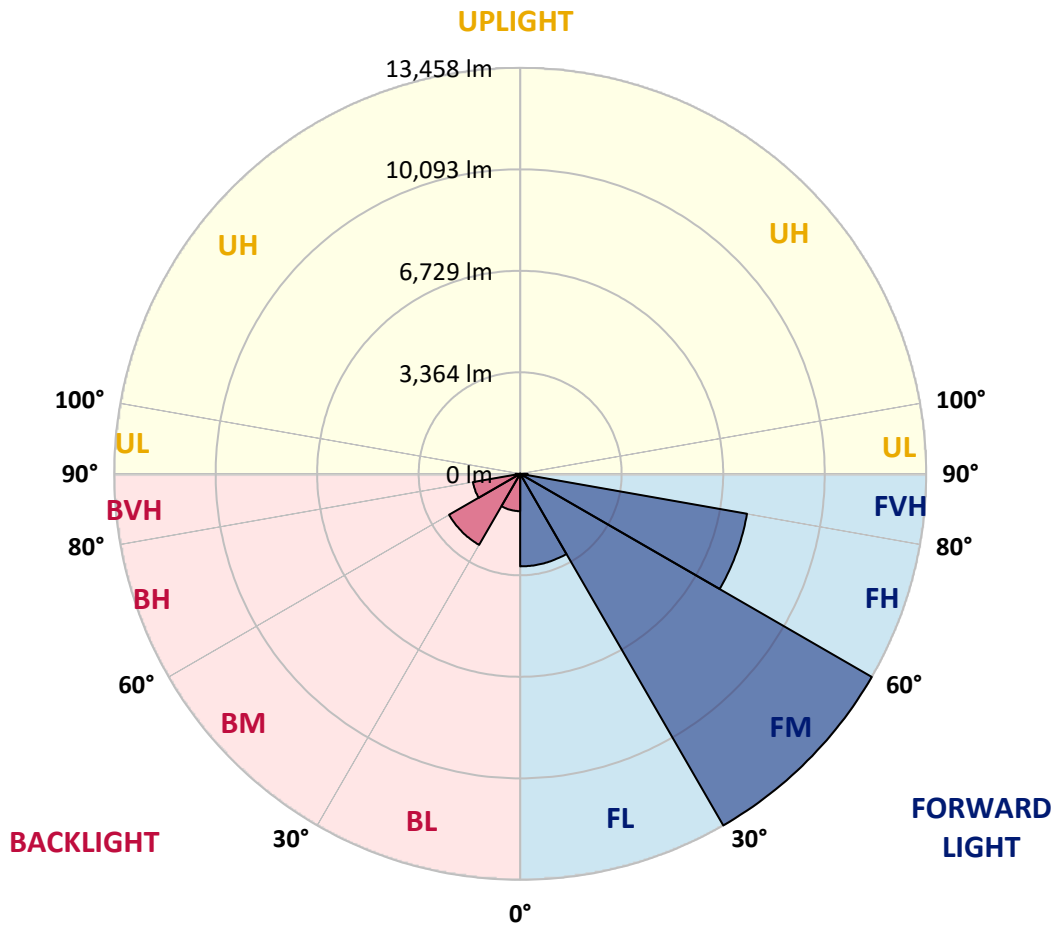


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3068.4	10.2			
FM (30°-60°)	13457.8	44.7			
FH (60°-80°)	7634.5	25.4			G4/12000
FVH (80°-90°)	246.3	0.8			G3/500
BL (0°-30°)	1238.0	4.1	B3/2500		
BM (30°-60°)	2719.8	9.0	B3/5000		
BH (60°-80°)	1588.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	147.6	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-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8
2.5°	4422.1	4453.2	4414.3	4414.3	4283.8	4215.5	4084.9	3985.5	3806.8	3775.7
5°	5227.0	5265.8	5211.4	5188.1	5034.3	4892.9	4673.8	4457.8	4139.3	4106.7
7.5°	5850.0	5899.8	5851.6	5826.7	5690.0	5531.5	5275.1	4973.7	4524.7	4461.0
10°	6358.1	6365.9	6350.4	6359.7	6252.5	6122.0	5859.4	5508.2	4947.3	4860.3
12.5°	6645.6	6681.3	6712.4	6768.3	6749.7	6668.9	6432.7	6013.2	5394.8	5282.9
15°	6780.8	6842.9	6912.8	7041.8	7145.9	7166.1	6985.9	6555.5	5850.0	5714.9
17.5°	6828.9	6888.0	6998.3	7184.8	7408.5	7559.2	7478.4	7082.2	6300.7	6145.3
20°	7072.9	7090.0	7156.8	7333.9	7576.3	7826.5	7887.1	7588.7	6746.6	6571.0
22.5°	7595.0	7560.8	7579.4	7660.2	7834.2	8076.6	8214.9	8036.2	7205.0	7003.0
25°	8457.3	8357.9	8258.4	8165.2	8253.8	8390.5	8547.4	8483.7	7685.1	7428.7
27.5°	9546.5	9425.3	9206.3	8900.2	8792.9	8841.1	8911.0	8898.6	8129.5	7870.0
30°	10618.7	10477.3	10216.2	9773.4	9490.6	9363.2	9310.4	9274.6	8612.7	8336.1
32.5°	11474.8	11362.9	11106.5	10610.9	10200.7	9983.2	9807.6	9680.2	9117.7	8841.1
35°	12223.7	12119.6	11826.0	11285.2	10839.3	10607.8	10377.8	10105.9	9642.9	9363.2
37.5°	12907.4	12803.3	12400.9	11838.4	11389.3	11229.3	11024.2	10562.7	10169.6	9905.5
40°	13339.4	13316.0	12940.0	12303.0	11836.8	11757.6	11689.2	11092.6	10753.8	10508.3
42.5°	13449.7	13500.9	13202.6	12679.0	12234.6	12170.9	12330.9	11692.3	11409.5	11174.9
45°	13184.0	13331.6	13135.8	12780.0	12517.4	12483.2	12899.6	12348.0	12135.2	11920.7
47.5°	12511.2	12761.3	12680.5	12630.8	12593.5	12741.1	13400.0	13044.1	12957.1	12770.7
50°	11153.2	11627.1	11768.5	12082.3	12442.8	12941.6	13855.2	13803.9	13917.4	13729.4
52.5°	8805.4	9458.0	10278.4	11064.6	11979.8	12874.8	14355.5	14894.7	15373.3	15270.7
55°	7268.7	7562.3	8193.2	9635.1	11081.7	12593.5	14580.8	15775.7	16818.3	16726.6
57.5°	6087.8	6350.4	6738.8	7943.0	9723.7	11954.9	14720.7	16313.3	17808.1	17798.8
60°	4821.4	5099.6	5497.3	6350.4	8137.2	10851.7	14689.6	16925.5	19071.3	19149.0
62.5°	3391.9	3698.0	4139.3	4934.9	6516.6	9422.2	14055.7	17368.4	20558.3	20769.6
65°	2229.7	2431.7	2764.2	3451.0	4855.6	7584.1	12845.2	17425.8	22149.4	22506.8
67.5°	1563.1	1640.8	1836.6	2209.5	3200.8	5815.9	10917.0	16830.7	23210.6	23613.1
70°	1219.7	1258.6	1358.0	1507.2	2010.6	3910.9	8365.6	15283.2	22983.8	23403.3
72.5°	1053.5	1090.8	1128.1	1146.7	1348.7	2414.6	5666.7	12778.4	20847.3	21131.7
75°	955.6	964.9	996.0	989.8	1028.6	1566.2	3270.7	9310.4	16448.5	16350.6
77.5°	803.3	815.7	867.0	859.3	913.6	1070.6	1698.3	6008.5	10663.7	9998.7
80°	680.6	686.8	742.7	733.4	794.0	775.3	867.0	3062.5	4523.1	3831.7
82.5°	236.2	292.1	567.1	584.2	606.0	469.2	500.3	1249.3	1381.3	1058.1
85°	115.0	122.8	289.0	410.2	408.6	236.2	243.9	445.9	435.1	341.8
87.5°	18.6	23.3	34.2	160.0	127.4	62.2	83.9	87.0	90.1	77.7
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°
3531.8	0°	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8
3657.6	2.5°	3570.6	3492.9	3329.8	3179.1	3061.0	2947.6	2883.8	2829.5	2798.4	2792.2
3828.6	5°	3667.0	3506.9	3210.1	2960.0	2796.8	2675.6	2611.9	2571.5	2551.3	2538.9
4058.5	7.5°	3805.3	3570.6	3148.0	2863.6	2692.7	2605.7	2573.1	2566.9	2565.3	2566.9
4336.6	10°	3996.4	3674.7	3141.8	2840.3	2697.4	2649.2	2647.7	2649.2	2655.4	2657.0
4639.6	12.5°	4203.0	3781.9	3166.6	2860.5	2756.4	2730.0	2725.4	2723.8	2728.5	2731.6
4945.7	15°	4428.3	3923.3	3208.6	2904.0	2821.7	2793.7	2789.1	2779.7	2778.2	2776.6
5267.4	17.5°	4659.8	4063.2	3255.2	2950.7	2863.6	2824.8	2807.7	2786.0	2768.9	2764.2
5599.9	20°	4894.5	4201.5	3287.8	2974.0	2866.8	2812.4	2778.2	2740.9	2711.4	2694.3
5935.5	22.5°	5144.6	4346.0	3308.0	2967.8	2838.8	2764.2	2702.1	2658.5	2613.5	2584.0
6274.2	25°	5388.6	4471.8	3306.5	2935.1	2784.4	2689.6	2610.4	2554.4	2492.3	2461.2
6623.8	27.5°	5623.2	4585.3	3267.6	2877.6	2706.7	2601.1	2506.3	2439.5	2378.9	2349.3
6976.6	30°	5865.6	4680.0	3207.0	2793.7	2615.0	2498.5	2394.4	2336.9	2282.5	2254.6
7349.5	32.5°	6106.4	4767.1	3121.6	2689.6	2509.4	2397.5	2295.0	2242.1	2209.5	2209.5
7750.3	35°	6361.2	4827.6	3008.2	2568.4	2397.5	2290.3	2209.5	2178.4	2175.3	2156.7
8174.5	37.5°	6630.1	4866.5	2869.9	2444.1	2287.2	2186.2	2161.3	2124.0	2093.0	2052.6
8640.7	40°	6912.8	4905.3	2703.6	2315.2	2170.7	2114.7	2103.8	2054.1	1965.6	1866.1
9169.0	42.5°	7256.2	4931.8	2531.1	2186.2	2047.9	2029.3	2044.8	1959.3	1817.9	1743.4
9806.0	45°	7654.0	4975.3	2372.6	2058.8	1922.0	1922.0	1987.3	1875.4	1758.9	1712.3
10533.2	47.5°	8169.9	5076.3	2225.0	1918.9	1805.5	1836.6	1859.9	1774.4	1709.2	1651.7
11418.9	50°	8915.7	5318.6	2072.8	1777.5	1716.9	1779.1	1746.5	1696.7	1620.6	1574.0
12826.6	52.5°	9841.8	5461.6	1937.6	1650.1	1640.8	1703.0	1656.3	1609.7	1552.2	1490.1
13894.1	55°	10472.6	5488.0	1824.2	1556.9	1589.5	1583.3	1566.2	1524.3	1493.2	1410.8
14947.5	57.5°	11178.0	5540.8	1730.9	1501.0	1556.9	1488.5	1482.3	1446.6	1406.2	1350.3
16232.5	60°	12021.7	5623.2	1650.1	1479.2	1528.9	1426.4	1395.3	1381.3	1340.9	1313.0
17778.6	62.5°	12941.6	5697.8	1567.8	1482.3	1496.3	1365.8	1319.2	1314.5	1289.7	1280.3
19229.8	65°	13569.3	5494.2	1465.2	1479.2	1445.0	1303.6	1244.6	1243.0	1222.8	1219.7
19859.1	67.5°	13350.2	4849.4	1326.9	1435.7	1392.2	1241.5	1176.2	1170.0	1143.6	1145.1
19201.8	70°	12253.2	3929.6	1135.8	1328.5	1326.9	1185.5	1104.8	1084.6	1048.8	1055.0
16695.6	72.5°	10196.0	2911.8	879.4	1149.8	1222.8	1134.3	1022.4	989.8	944.7	950.9
12324.7	75°	7363.4	1979.5	640.2	874.8	1064.4	1073.7	941.6	885.7	831.3	840.6
6860.0	77.5°	3768.0	1121.8	470.8	602.9	835.9	975.8	868.6	794.0	781.6	868.6
1978.0	80°	1229.1	562.5	326.3	422.6	548.5	798.7	761.4	675.9	672.8	693.0
414.9	82.5°	366.7	237.7	209.8	278.1	303.0	612.2	657.3	511.2	439.7	463.0
138.3	85°	125.9	115.0	119.6	138.3	144.5	358.9	459.9	338.7	320.1	352.7
31.1	87.5°	29.5	40.4	34.2	31.1	31.1	87.0	178.7	141.4	195.8	130.5
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>
3531.8
2792.2
2537.4
2571.5
2658.5
2733.1
2775.1
2768.9
2700.5
2585.5
2461.2
2347.8
2253.0
2211.1
2152.0
2046.4
1852.1
1744.9
1720.1
1650.1
1569.3
1477.7
1412.4
1331.6
1320.7
1280.3
1218.2
1145.1
1061.2
949.4
843.7
856.1
595.1
478.6
348.1
125.9
0.0

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