

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: P948855

Luminaire Tested: **GALN-SB3D-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948855
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-SB3D-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 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: 32901 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

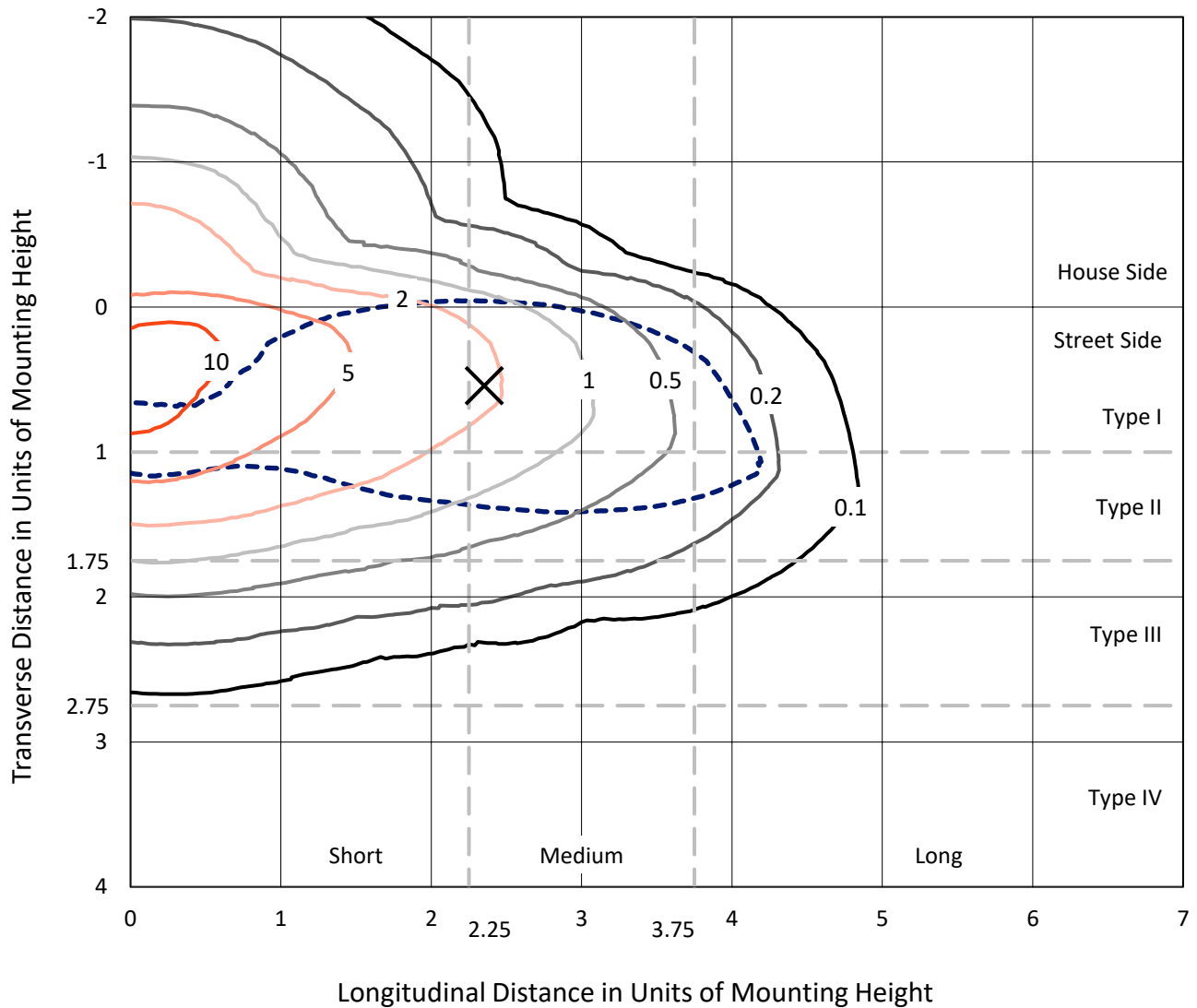
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

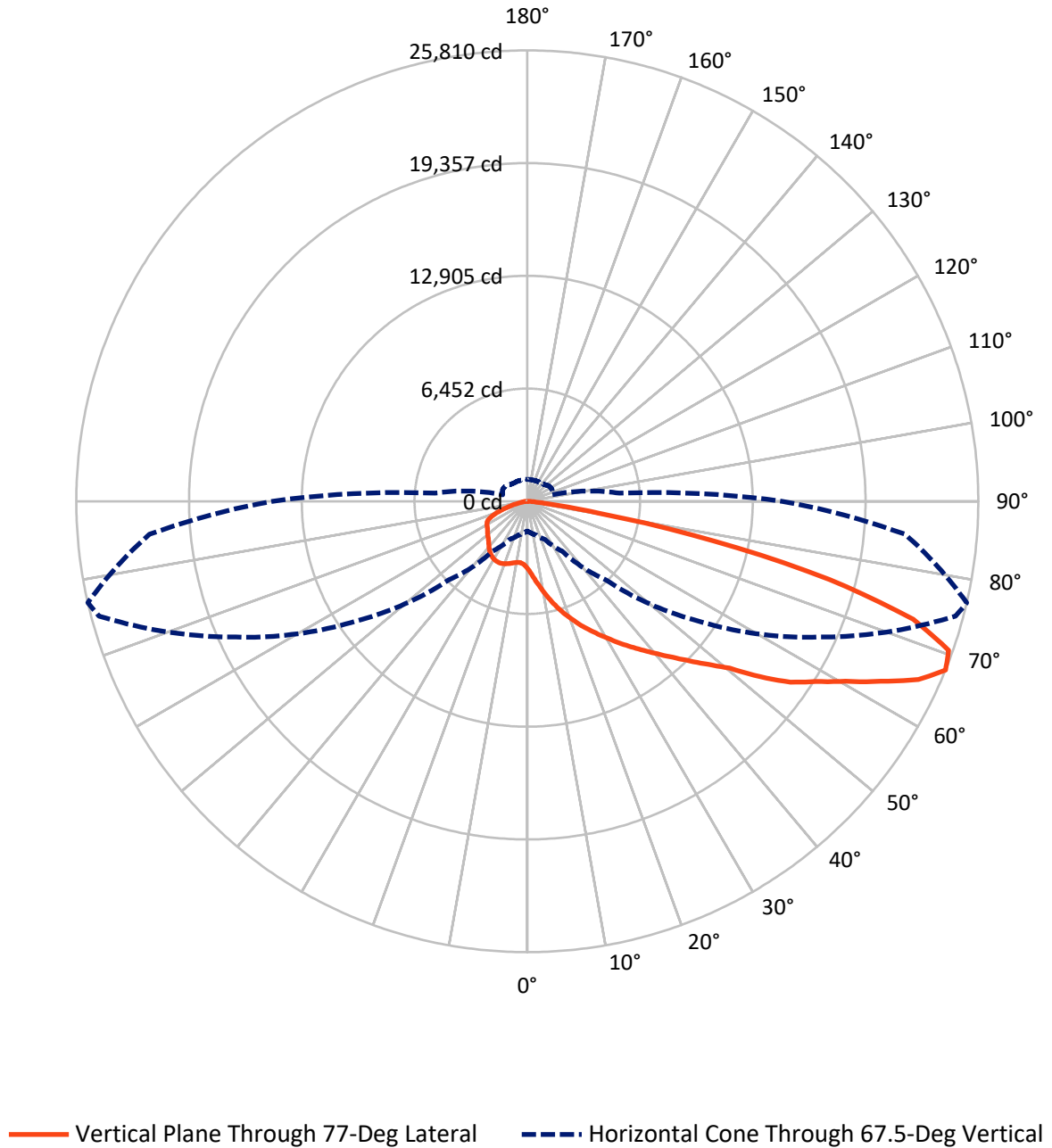
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	6223.6	0.0	6223.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	26677.5	0.0	26677.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	32901.0	0.0	32901.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	1.3
10°-20°	1486.5	4.5
20°-30°	2806.7	8.5
30°-40°	4521.5	13.7
40°-50°	6184.6	18.8
50°-60°	6976.3	21.2
60°-70°	6511.5	19.8
70°-80°	3569.4	10.8
80°-90°	430.6	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°	32901.0	100.0
0°-180°	32901.0	100.0



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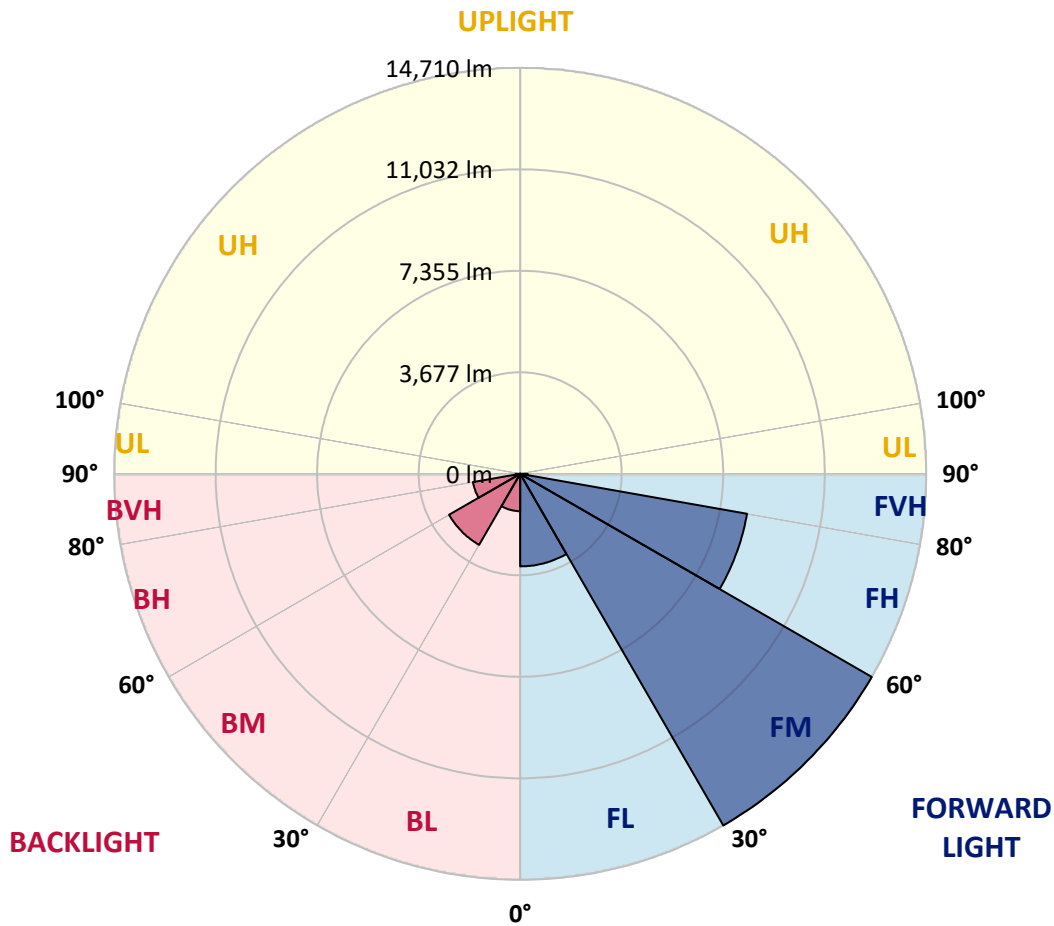
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3353.8	10.2			
FM (30°-60°)	14709.7	44.7			
FH (60°-80°)	8344.7	25.4			G4/12000
FVH (80°-90°)	269.3	0.8			G3/500
BL (0°-30°)	1353.1	4.1	B3/2500		
BM (30°-60°)	2972.8	9.0	B3/5000		
BH (60°-80°)	1736.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	161.3	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°	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3
2.5°	4833.5	4867.4	4825.0	4825.0	4682.3	4607.6	4464.9	4356.2	4160.9	4126.9
5°	5713.2	5755.6	5696.2	5670.7	5502.6	5348.0	5108.6	4872.5	4524.4	4488.7
7.5°	6394.2	6448.6	6395.9	6368.7	6219.3	6046.1	5765.8	5436.4	4945.5	4875.9
10°	6949.6	6958.1	6941.1	6951.3	6834.1	6691.4	6404.4	6020.6	5407.5	5312.4
12.5°	7263.8	7302.8	7336.8	7397.9	7377.6	7289.2	7031.1	6572.5	5896.6	5774.3
15°	7411.5	7479.5	7555.9	7696.8	7810.6	7832.7	7635.7	7165.3	6394.2	6246.5
17.5°	7464.2	7528.7	7649.3	7853.1	8097.6	8262.4	8174.1	7741.0	6886.7	6716.9
20°	7730.8	7749.5	7822.5	8016.1	8281.1	8554.5	8620.7	8294.7	7374.2	7182.2
22.5°	8301.4	8264.1	8284.5	8372.8	8563.0	8827.9	8979.1	8783.8	7875.2	7654.4
25°	9244.0	9135.3	9026.6	8924.7	9021.5	9171.0	9342.5	9272.9	8400.0	8119.7
27.5°	10434.6	10302.1	10062.6	9728.0	9610.9	9663.5	9739.9	9726.3	8885.7	8602.1
30°	11606.4	11451.9	11166.5	10682.5	10373.4	10234.2	10176.4	10137.3	9413.9	9111.6
32.5°	12542.2	12419.9	12139.7	11597.9	11149.6	10911.8	10719.9	10580.6	9965.8	9663.5
35°	13360.8	13247.0	12926.0	12335.0	11847.6	11594.5	11343.2	11046.0	10539.9	10234.2
37.5°	14108.0	13994.3	13554.4	12939.6	12448.8	12273.8	12049.7	11545.3	11115.6	10826.9
40°	14580.2	14554.7	14143.7	13447.4	12937.9	12851.3	12776.6	12124.4	11754.2	11485.8
42.5°	14700.8	14756.8	14430.7	13858.4	13372.7	13303.0	13478.0	12780.0	12470.9	12214.4
45°	14410.4	14571.7	14357.7	13968.8	13681.8	13644.4	14099.6	13496.6	13264.0	13029.6
47.5°	13675.0	13948.4	13860.1	13805.7	13765.0	13926.3	14646.4	14257.5	14162.4	13958.6
50°	12190.6	12708.6	12863.2	13206.2	13600.2	14145.4	15144.0	15088.0	15212.0	15006.5
52.5°	9624.4	10337.7	11234.5	12093.8	13094.1	14072.4	15690.9	16280.2	16803.3	16691.2
55°	7944.8	8265.8	8955.3	10531.4	12112.5	13765.0	15937.2	17243.2	18382.7	18282.5
57.5°	6654.1	6941.1	7365.7	8681.9	10628.2	13067.0	16090.0	17830.8	19464.6	19454.4
60°	5269.9	5573.9	6008.7	6941.1	8894.2	11861.2	16056.0	18499.9	20845.3	20930.2
62.5°	3707.5	4042.0	4524.4	5393.9	7122.8	10298.7	15363.1	18984.0	22470.6	22701.6
65°	2437.1	2657.9	3021.3	3772.0	5307.3	8289.6	14040.1	19046.8	24209.7	24600.3
67.5°	1708.5	1793.4	2007.4	2415.0	3498.6	6356.9	11932.5	18396.3	25369.7	25809.6
70°	1333.2	1375.6	1484.3	1647.4	2197.6	4274.7	9143.8	16704.8	25121.7	25580.3
72.5°	1151.5	1192.2	1233.0	1253.4	1474.2	2639.2	6193.8	13967.1	22786.5	23097.3
75°	1044.5	1054.7	1088.6	1081.8	1124.3	1711.9	3575.0	10176.4	17978.5	17871.6
77.5°	878.0	891.6	947.7	939.2	998.6	1170.2	1856.3	6567.5	11655.7	10928.8
80°	743.9	750.7	811.8	801.6	867.8	847.5	947.7	3347.4	4943.8	4188.1
82.5°	258.1	319.3	619.9	638.6	662.3	512.9	546.9	1365.5	1509.8	1156.6
85°	125.7	134.2	315.9	448.4	446.7	258.1	266.6	487.4	475.5	373.6
87.5°	20.4	25.5	37.4	174.9	139.3	67.9	91.7	95.1	98.5	84.9
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°
3860.3	0°	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3	3860.3
3997.9	2.5°	3902.8	3817.9	3639.5	3474.8	3345.7	3221.7	3152.1	3092.7	3058.7	3051.9
4184.7	5°	4008.1	3833.1	3508.8	3235.3	3057.0	2924.5	2854.9	2810.7	2788.7	2775.1
4436.0	7.5°	4159.2	3902.8	3440.8	3130.0	2943.2	2848.1	2812.4	2805.6	2803.9	2805.6
4740.0	10°	4368.1	4016.6	3434.0	3104.6	2948.3	2895.7	2894.0	2895.7	2902.4	2904.1
5071.2	12.5°	4594.0	4133.7	3461.2	3126.6	3012.8	2984.0	2978.9	2977.2	2982.3	2985.7
5405.8	15°	4840.2	4288.3	3507.1	3174.2	3084.2	3053.6	3048.5	3038.3	3036.6	3034.9
5757.3	17.5°	5093.3	4441.1	3558.0	3225.1	3130.0	3087.6	3068.9	3045.1	3026.4	3021.3
6120.8	20°	5349.7	4592.3	3593.7	3250.6	3133.4	3074.0	3036.6	2995.9	2963.6	2944.9
6487.6	22.5°	5623.2	4750.2	3615.7	3243.8	3102.9	3021.3	2953.4	2905.8	2856.6	2824.3
6857.9	25°	5889.8	4887.8	3614.1	3208.1	3043.4	2939.8	2853.2	2792.1	2724.1	2690.2
7240.0	27.5°	6146.3	5011.8	3571.6	3145.3	2958.5	2843.0	2739.4	2666.4	2600.1	2567.9
7625.5	30°	6411.2	5115.4	3505.4	3053.6	2858.3	2730.9	2617.1	2554.3	2494.9	2464.3
8033.1	32.5°	6674.4	5210.5	3411.9	2939.8	2742.8	2620.5	2508.4	2450.7	2415.0	2415.0
8471.3	35°	6953.0	5276.7	3288.0	2807.3	2620.5	2503.3	2415.0	2381.1	2377.7	2357.3
8934.9	37.5°	7246.8	5319.2	3136.8	2671.5	2499.9	2389.6	2362.4	2321.6	2287.7	2243.5
9444.4	40°	7555.9	5361.6	2955.1	2530.5	2372.6	2311.4	2299.5	2245.2	2148.4	2039.7
10021.9	42.5°	7931.2	5390.5	2766.6	2389.6	2238.4	2218.0	2235.0	2141.6	1987.0	1905.5
10718.2	45°	8366.0	5438.1	2593.4	2250.3	2100.8	2100.8	2172.2	2049.9	1922.5	1871.6
11513.0	47.5°	8929.8	5548.5	2432.0	2097.4	1973.5	2007.4	2032.9	1939.5	1868.2	1805.3
12481.0	50°	9745.0	5813.4	2265.6	1942.9	1876.7	1944.6	1908.9	1854.6	1771.4	1720.4
14019.7	52.5°	10757.2	5969.6	2117.8	1803.6	1793.4	1861.4	1810.4	1759.5	1696.6	1628.7
15186.5	55°	11446.8	5998.5	1993.8	1701.7	1737.4	1730.6	1711.9	1666.1	1632.1	1542.1
16338.0	57.5°	12217.8	6056.3	1891.9	1640.6	1701.7	1627.0	1620.2	1581.1	1537.0	1475.9
17742.5	60°	13140.0	6146.3	1803.6	1616.8	1671.2	1559.1	1525.1	1509.8	1465.7	1435.1
19432.3	62.5°	14145.4	6227.8	1713.6	1620.2	1635.5	1492.8	1441.9	1436.8	1409.6	1399.4
21018.6	65°	14831.5	6005.3	1601.5	1616.8	1579.4	1424.9	1360.4	1358.7	1336.6	1333.2
21706.4	67.5°	14592.1	5300.5	1450.4	1569.3	1521.7	1357.0	1285.6	1278.8	1250.0	1251.7
20988.0	70°	13393.0	4295.1	1241.5	1452.1	1450.4	1295.8	1207.5	1185.4	1146.4	1153.2
18248.6	72.5°	11144.5	3182.7	961.3	1256.8	1336.6	1239.8	1117.5	1081.8	1032.6	1039.4
13471.2	75°	8048.4	2163.7	699.7	956.2	1163.4	1173.5	1029.2	968.0	908.6	918.8
7498.1	77.5°	4118.5	1226.2	514.6	659.0	913.7	1066.6	949.4	867.8	854.3	949.4
2162.0	80°	1343.4	614.8	356.6	461.9	599.5	872.9	832.2	738.8	735.4	757.5
453.5	82.5°	400.8	259.8	229.3	304.0	331.2	669.1	718.4	558.8	480.6	506.1
151.2	85°	137.6	125.7	130.8	151.2	157.9	392.3	502.7	370.2	349.9	385.5
34.0	87.5°	32.3	44.2	37.4	34.0	34.0	95.1	195.3	154.5	214.0	142.7
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>
3860.3
3051.9
2773.4
2810.7
2905.8
2987.4
3033.2
3026.4
2951.7
2826.0
2690.2
2566.2
2462.6
2416.7
2352.2
2236.7
2024.4
1907.2
1880.1
1803.6
1715.3
1615.1
1543.8
1455.5
1443.6
1399.4
1331.5
1251.7
1160.0
1037.7
922.2
935.8
650.5
523.1
380.4
137.6
0.0

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