

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: P953475

Luminaire Tested: **GALN-SB7A-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953475
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-SB7A-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32493 lumens
Efficiency: N/A
Efficacy: 163.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

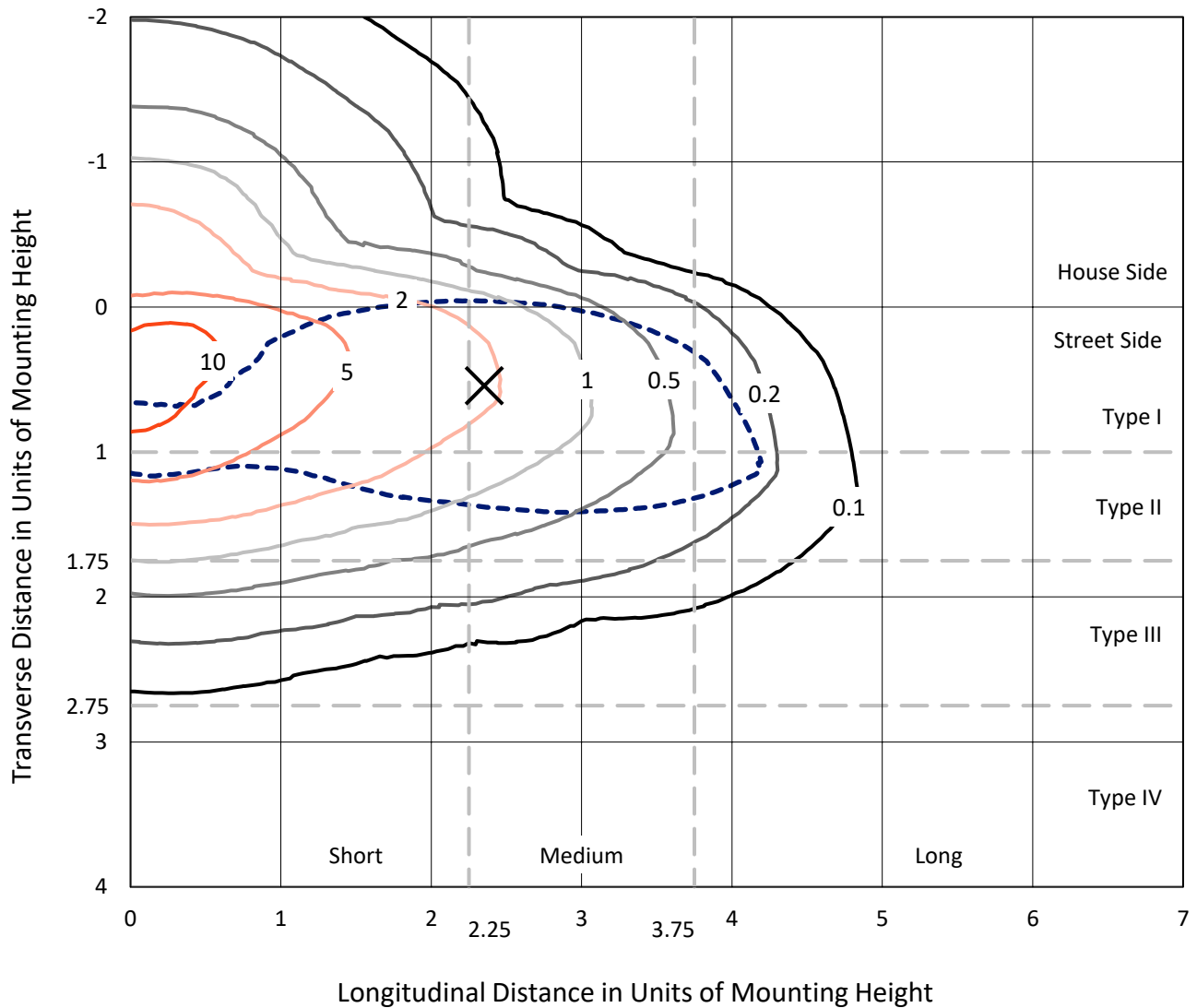
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

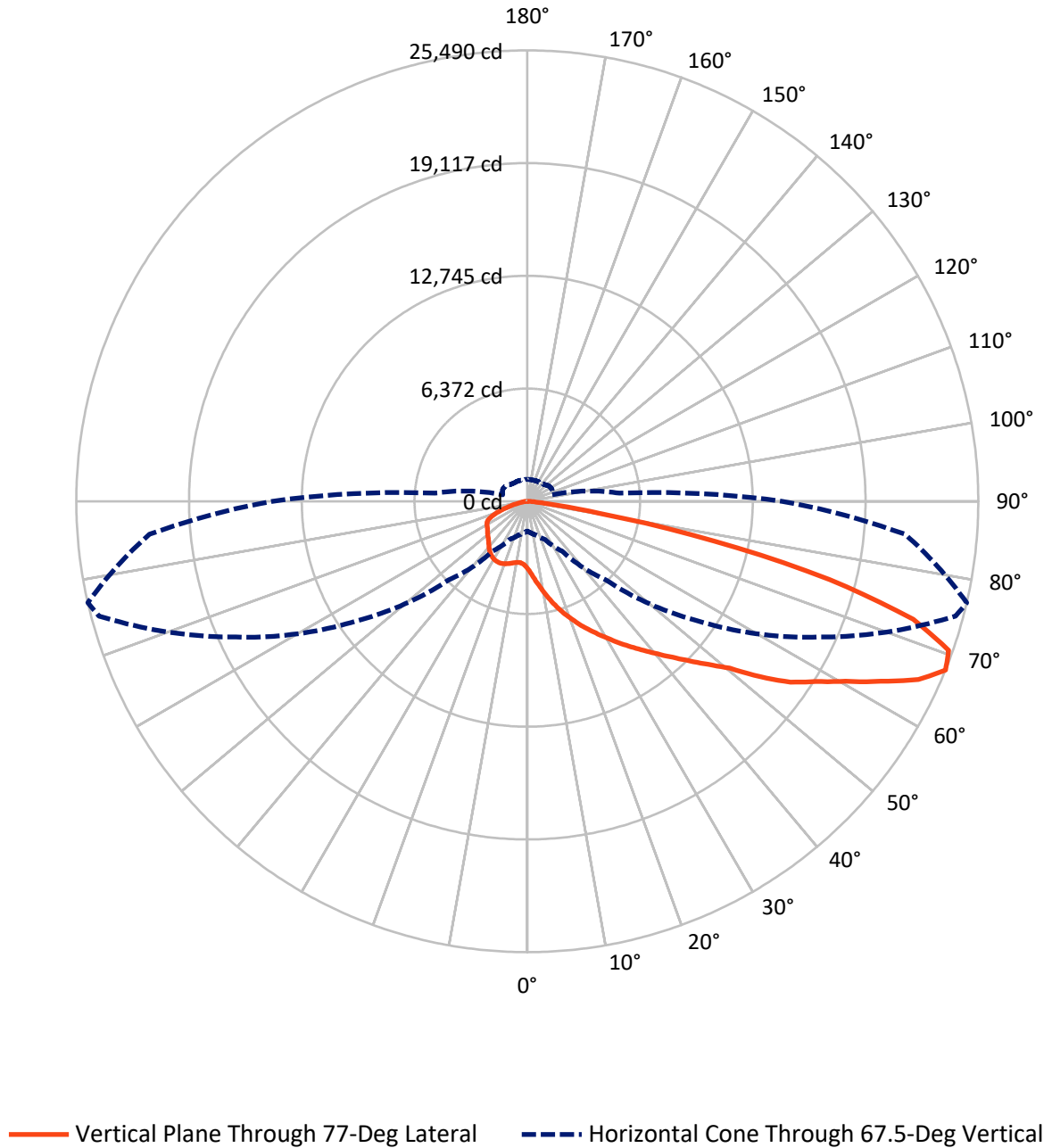
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	6146.4	0.0	6146.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	26346.6	0.0	26346.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	32493.0	0.0	32493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.6	1.3
10°-20°	1468.1	4.5
20°-30°	2771.9	8.5
30°-40°	4465.5	13.7
40°-50°	6108.0	18.8
50°-60°	6889.8	21.2
60°-70°	6430.8	19.8
70°-80°	3525.1	10.8
80°-90°	425.2	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°	32493.0	100.0
0°-180°	32493.0	100.0

Coefficient of Utilization



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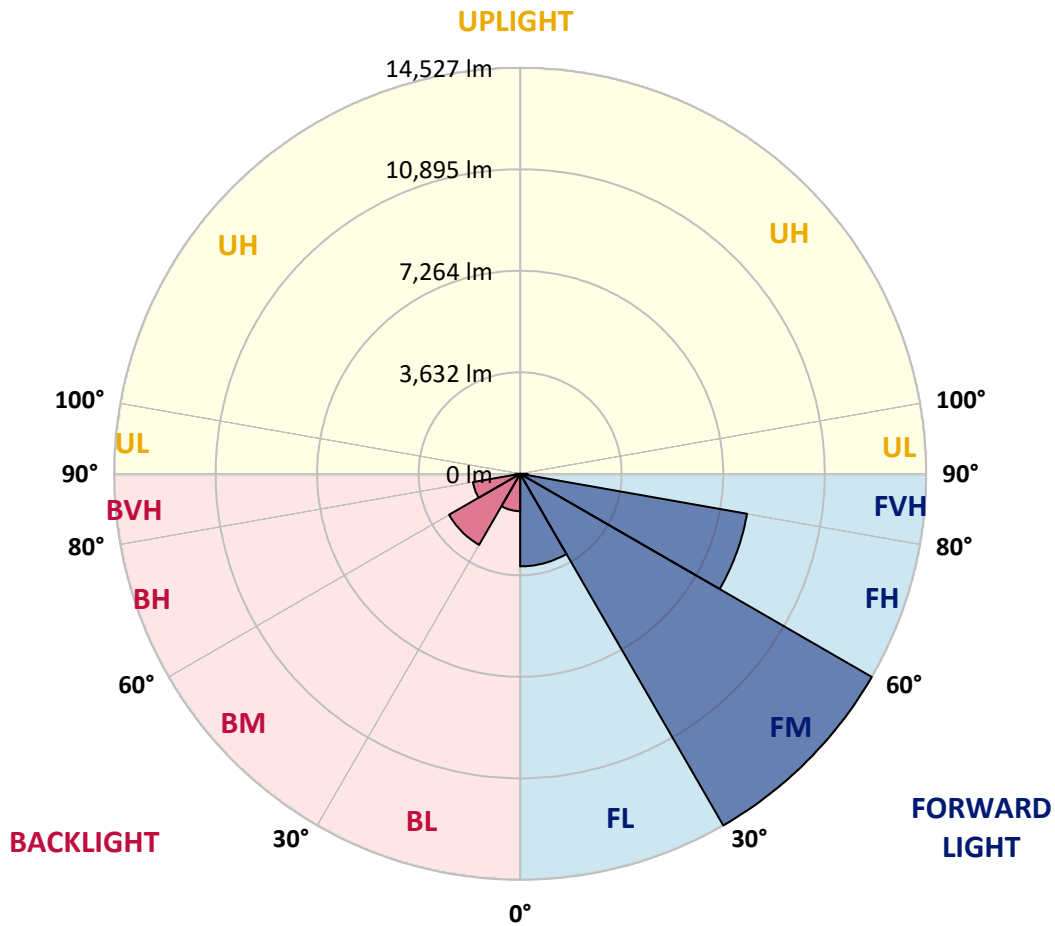
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3312.3	10.2			
FM (30°-60°)	14527.3	44.7			
FH (60°-80°)	8241.2	25.4			G4/12000
FVH (80°-90°)	265.9	0.8			G3/500
BL (0°-30°)	1336.4	4.1	B3/2500		
BM (30°-60°)	2936.0	9.0	B3/5000		
BH (60°-80°)	1714.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	159.3	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°	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4
2.5°	4773.5	4807.1	4765.1	4765.1	4624.2	4550.4	4409.5	4302.2	4109.3	4075.8
5°	5642.3	5684.3	5625.6	5600.4	5434.4	5281.7	5045.2	4812.1	4468.3	4433.0
7.5°	6314.9	6368.6	6316.6	6289.8	6142.2	5971.1	5694.3	5368.9	4884.2	4815.4
10°	6863.4	6871.8	6855.0	6865.1	6749.3	6608.5	6325.0	5945.9	5340.4	5246.5
12.5°	7173.7	7212.3	7245.8	7306.2	7286.1	7198.8	6943.9	6491.0	5823.5	5702.7
15°	7319.6	7386.7	7462.2	7601.4	7713.8	7735.6	7541.0	7076.4	6314.9	6169.0
17.5°	7371.6	7435.3	7554.4	7755.7	7997.2	8159.9	8072.7	7645.0	6801.3	6633.6
20°	7634.9	7653.4	7725.5	7916.7	8178.4	8448.4	8513.8	8191.8	7282.7	7093.2
22.5°	8198.5	8161.6	8181.7	8268.9	8456.8	8718.5	8867.7	8674.8	7777.5	7559.5
25°	9129.4	9022.0	8914.7	8814.1	8909.7	9057.3	9226.7	9157.9	8295.8	8019.0
27.5°	10305.2	10174.3	9937.8	9607.4	9491.7	9543.7	9619.2	9605.7	8775.5	8495.4
30°	11462.5	11309.8	11028.1	10550.0	10244.8	10107.2	10050.2	10011.6	9297.1	8998.6
32.5°	12386.7	12265.9	11989.1	11454.1	11011.3	10776.5	10586.9	10449.4	9842.2	9543.7
35°	13195.1	13082.7	12765.7	12182.0	11700.6	11450.7	11202.5	10909.0	10409.1	10107.2
37.5°	13933.1	13820.7	13386.3	12779.1	12294.4	12121.6	11900.2	11402.1	10977.7	10692.6
40°	14399.4	14374.2	13968.3	13280.6	12777.5	12691.9	12618.1	11974.0	11608.4	11343.4
42.5°	14518.5	14573.8	14251.8	13686.5	13206.8	13138.1	13310.8	12621.5	12316.2	12062.9
45°	14231.6	14391.0	14179.7	13795.6	13512.1	13475.2	13924.7	13329.3	13099.5	12868.0
47.5°	13505.4	13775.4	13688.2	13634.5	13594.3	13753.6	14464.8	14080.7	13986.8	13785.5
50°	12039.5	12551.0	12703.7	13042.5	13431.6	13970.0	14956.2	14900.9	15023.3	14820.4
52.5°	9505.1	10209.6	11095.2	11943.9	12931.8	13897.9	15496.3	16078.3	16594.9	16484.2
55°	7846.3	8163.3	8844.3	10400.8	11962.3	13594.3	15739.5	17029.3	18154.8	18055.8
57.5°	6571.6	6855.0	7274.3	8574.2	10496.4	12904.9	15890.5	17609.7	19223.2	19213.1
60°	5204.6	5504.8	5934.2	6855.0	8783.9	11714.1	15856.9	18270.5	20586.8	20670.7
62.5°	3661.5	3991.9	4468.3	5327.0	7034.5	10171.0	15172.6	18748.5	22192.0	22420.1
65°	2406.9	2624.9	2983.9	3725.2	5241.5	8186.8	13866.0	18810.6	23909.5	24295.3
67.5°	1687.3	1771.2	1982.5	2385.1	3455.2	6278.0	11784.5	18168.2	25055.1	25489.5
70°	1316.7	1358.6	1465.9	1627.0	2170.4	4221.7	9030.4	16497.6	24810.2	25263.1
72.5°	1137.2	1177.4	1217.7	1237.8	1455.9	2606.5	6117.0	13793.9	22504.0	22810.9
75°	1031.5	1041.6	1075.1	1068.4	1110.4	1690.7	3530.7	10050.2	17755.6	17649.9
77.5°	867.1	880.6	935.9	927.5	986.2	1155.6	1833.3	6486.0	11511.1	10793.2
80°	734.6	741.4	801.7	791.7	857.1	837.0	935.9	3305.9	4882.5	4136.2
82.5°	254.9	315.3	612.2	630.7	654.1	506.5	540.1	1348.5	1491.1	1142.2
85°	124.1	132.5	312.0	442.8	441.1	254.9	263.3	481.4	469.6	369.0
87.5°	20.1	25.2	36.9	172.8	137.5	67.1	90.6	93.9	97.3	83.9
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°
3812.4	0°	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4	3812.4
3948.3	2.5°	3854.4	3770.5	3594.4	3431.7	3304.2	3181.8	3113.0	3054.3	3020.8	3014.1
4132.8	5°	3958.4	3785.6	3465.2	3195.2	3019.1	2888.3	2819.5	2775.9	2754.1	2740.7
4381.0	7.5°	4107.6	3854.4	3398.2	3091.2	2906.7	2812.8	2777.6	2770.9	2769.2	2770.9
4681.3	10°	4313.9	3966.7	3391.4	3066.1	2911.7	2859.7	2858.1	2859.7	2866.5	2868.1
5008.3	12.5°	4537.0	4082.5	3418.3	3087.9	2975.5	2947.0	2941.9	2940.3	2945.3	2948.6
5338.8	15°	4780.2	4235.1	3463.6	3134.8	3045.9	3015.7	3010.7	3000.6	2999.0	2997.3
5686.0	17.5°	5030.1	4386.1	3513.9	3185.1	3091.2	3049.3	3030.8	3007.3	2988.9	2983.9
6044.9	20°	5283.4	4535.3	3549.1	3210.3	3094.6	3035.9	2999.0	2958.7	2926.8	2908.4
6407.2	22.5°	5553.4	4691.3	3570.9	3203.6	3064.4	2983.9	2916.8	2869.8	2821.2	2789.3
6772.8	25°	5816.8	4827.2	3569.2	3168.4	3005.7	2903.4	2817.8	2757.4	2690.3	2656.8
7150.2	27.5°	6070.0	4949.6	3527.3	3106.3	2921.8	2807.8	2705.4	2633.3	2567.9	2536.0
7530.9	30°	6331.7	5051.9	3461.9	3015.7	2822.8	2697.1	2584.7	2522.6	2463.9	2433.7
7933.5	32.5°	6591.7	5145.9	3369.6	2903.4	2708.8	2588.0	2477.3	2420.3	2385.1	2385.1
8366.2	35°	6866.7	5211.3	3247.2	2772.5	2588.0	2472.3	2385.1	2351.5	2348.2	2328.1
8824.1	37.5°	7156.9	5253.2	3097.9	2638.3	2468.9	2359.9	2333.1	2292.8	2259.3	2215.7
9327.3	40°	7462.2	5295.1	2918.5	2499.1	2343.1	2282.8	2271.0	2217.4	2121.7	2014.4
9897.6	42.5°	7832.9	5323.7	2732.3	2359.9	2210.6	2190.5	2207.3	2115.0	1962.4	1881.9
10585.3	45°	8262.2	5370.6	2561.2	2222.4	2074.8	2074.8	2145.2	2024.5	1898.7	1848.4
11370.2	47.5°	8819.1	5479.6	2401.9	2071.4	1949.0	1982.5	2007.7	1915.4	1845.0	1782.9
12326.3	50°	9624.2	5741.3	2237.5	1918.8	1853.4	1920.5	1885.3	1831.6	1749.4	1699.1
13845.9	52.5°	10623.8	5895.6	2091.6	1781.3	1771.2	1838.3	1788.0	1737.7	1675.6	1608.5
14998.2	55°	11304.8	5924.1	1969.1	1680.6	1715.8	1709.1	1690.7	1645.4	1611.9	1523.0
16135.4	57.5°	12066.3	5981.2	1868.5	1620.2	1680.6	1606.8	1600.1	1561.5	1517.9	1457.5
17522.5	60°	12977.1	6070.0	1781.3	1596.8	1650.4	1539.7	1506.2	1491.1	1447.5	1417.3
19191.3	62.5°	13970.0	6150.6	1692.4	1600.1	1615.2	1474.3	1424.0	1419.0	1392.1	1382.1
20757.9	65°	14647.6	5930.8	1581.7	1596.8	1559.9	1407.2	1343.5	1341.8	1320.0	1316.7
21437.2	67.5°	14411.1	5234.8	1432.4	1549.8	1502.8	1340.1	1269.7	1263.0	1234.5	1236.1
20727.7	70°	13227.0	4241.8	1226.1	1434.1	1432.4	1279.8	1192.5	1170.7	1132.2	1138.9
18022.3	72.5°	11006.3	3143.2	949.3	1241.2	1320.0	1224.4	1103.6	1068.4	1019.8	1026.5
13304.1	75°	7948.6	2136.8	691.0	944.3	1148.9	1159.0	1016.4	956.0	897.3	907.4
7405.2	77.5°	4067.4	1211.0	508.2	650.8	902.4	1053.3	937.6	857.1	843.7	937.6
2135.2	80°	1326.7	607.2	352.2	456.2	592.1	862.1	821.9	729.6	726.3	748.1
447.8	82.5°	395.8	256.6	226.4	300.2	327.1	660.8	709.5	551.8	474.7	499.8
149.3	85°	135.9	124.1	129.1	149.3	156.0	387.4	496.5	365.6	345.5	380.7
33.5	87.5°	31.9	43.6	36.9	33.5	33.5	93.9	192.9	152.6	211.3	140.9
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>
3812.4
3014.1
2739.0
2775.9
2869.8
2950.3
2995.6
2988.9
2915.1
2791.0
2656.8
2534.4
2432.0
2386.8
2323.0
2209.0
1999.3
1883.6
1856.7
1781.3
1694.0
1595.1
1524.6
1437.4
1425.7
1382.1
1315.0
1236.1
1145.6
1024.8
910.8
924.2
642.4
516.6
375.7
135.9
0.0

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