

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: P953643

Luminaire Tested: **GALN-SB7A-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953643
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-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31080 lumens
Efficiency: N/A
Efficacy: 156.1 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

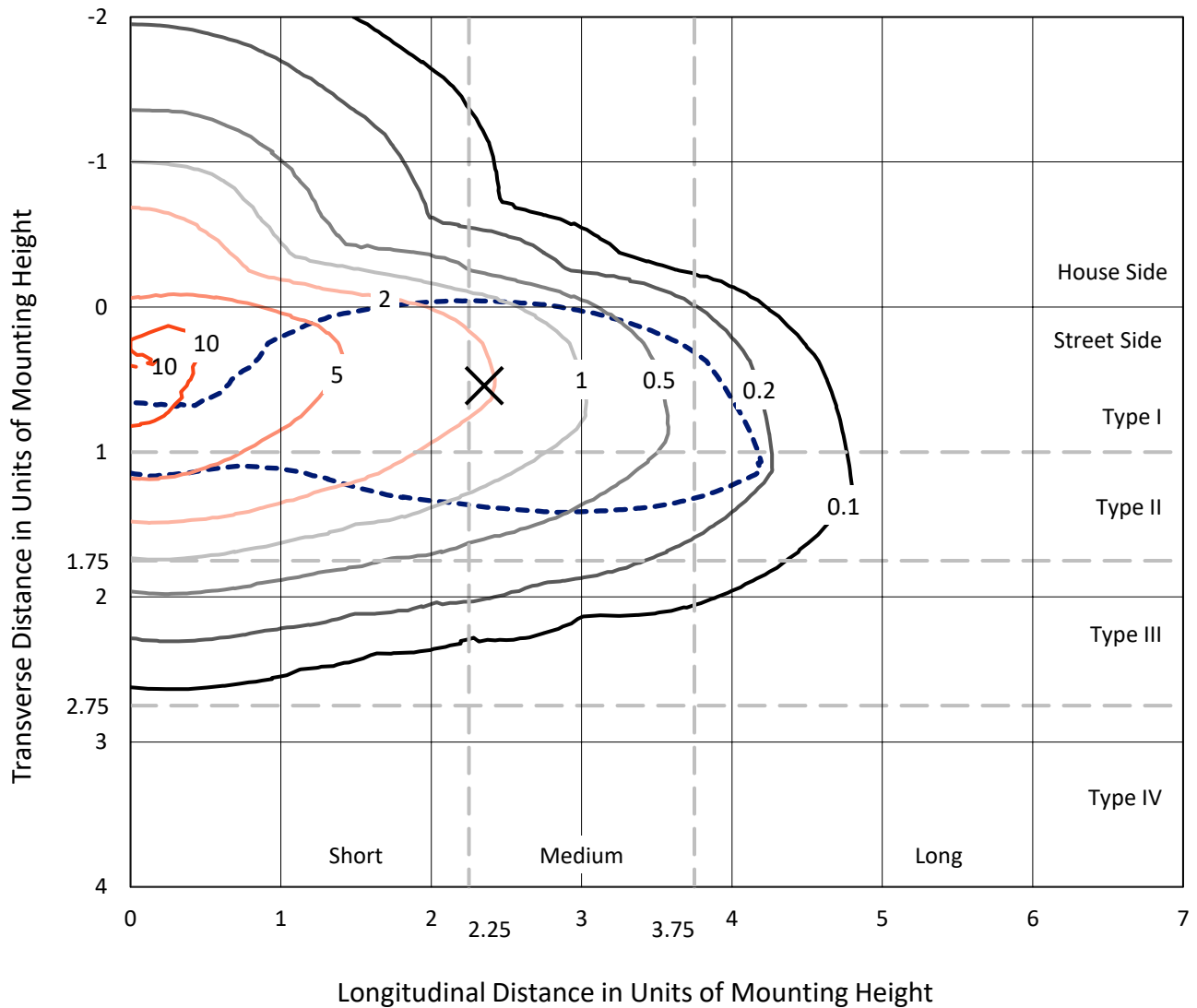
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

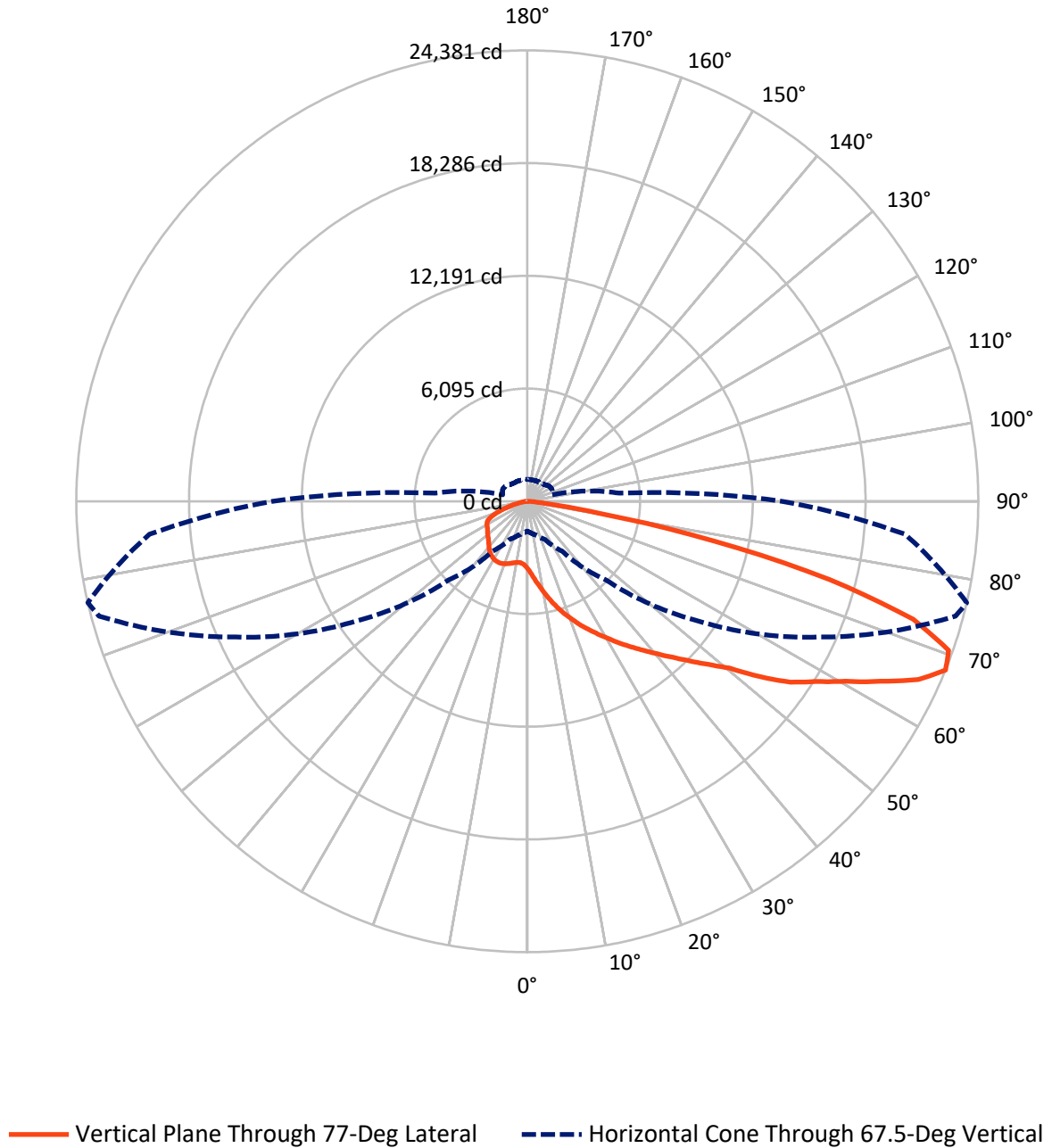
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	5879.1	0.0	5879.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	25200.9	0.0	25200.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	31080.0	0.0	31080.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.9	1.3
10°-20°	1404.2	4.5
20°-30°	2651.3	8.5
30°-40°	4271.3	13.7
40°-50°	5842.3	18.8
50°-60°	6590.2	21.2
60°-70°	6151.1	19.8
70°-80°	3371.9	10.8
80°-90°	406.7	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°	31080.0	100.0
0°-180°	31080.0	100.0



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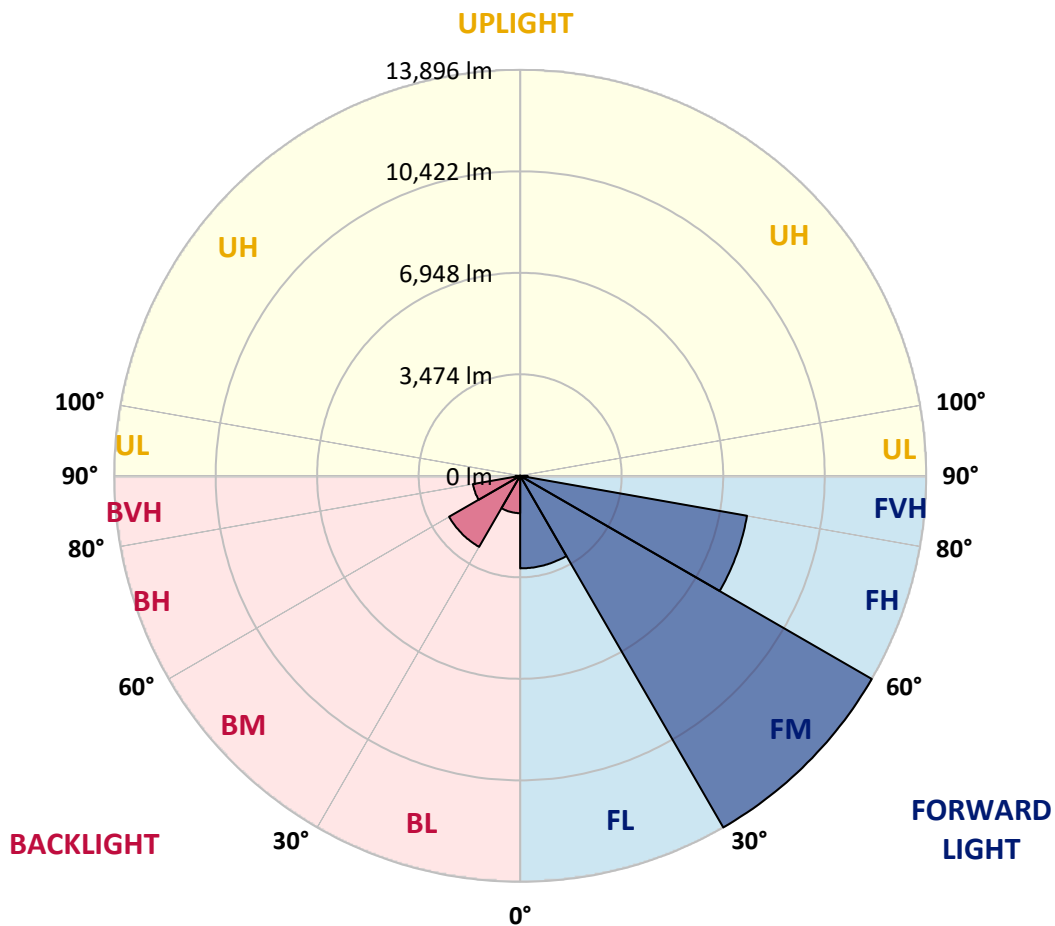
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3168.2	10.2			
FM (30°-60°)	13895.5	44.7			
FH (60°-80°)	7882.8	25.4			G4/12000
FVH (80°-90°)	254.4	0.8			G3/500
BL (0°-30°)	1278.3	4.1	B3/2500		
BM (30°-60°)	2808.3	9.0	B3/5000		
BH (60°-80°)	1640.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	152.4	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°	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6
2.5°	4565.9	4598.0	4557.9	4557.9	4423.1	4352.6	4217.8	4115.1	3930.6	3898.5
5°	5397.0	5437.1	5380.9	5356.9	5198.0	5052.0	4825.8	4602.8	4273.9	4240.3
7.5°	6040.3	6091.7	6041.9	6016.2	5875.1	5711.4	5446.7	5135.5	4671.8	4606.0
10°	6564.9	6573.0	6556.9	6566.5	6455.8	6321.1	6049.9	5687.4	5108.2	5018.4
12.5°	6861.7	6898.6	6930.7	6988.5	6969.2	6885.8	6641.9	6208.8	5570.2	5454.7
15°	7001.3	7065.5	7137.7	7270.8	7378.3	7399.2	7213.1	6768.7	6040.3	5900.7
17.5°	7051.0	7112.0	7225.9	7418.4	7649.5	7805.1	7721.7	7312.6	6505.6	6345.1
20°	7302.9	7320.6	7389.6	7572.5	7822.7	8081.0	8143.6	7835.6	6966.0	6784.7
22.5°	7842.0	7806.7	7825.9	7909.4	8089.0	8339.3	8482.1	8297.6	7439.3	7230.7
25°	8732.4	8629.7	8527.0	8430.8	8522.2	8663.4	8825.4	8759.7	7935.0	7670.3
27.5°	9857.0	9731.9	9505.7	9189.6	9078.9	9128.7	9200.9	9188.0	8393.9	8125.9
30°	10964.0	10818.0	10548.5	10091.3	9799.3	9667.7	9613.2	9576.3	8892.8	8607.2
32.5°	11848.0	11732.5	11467.8	10956.0	10532.4	10307.8	10126.6	9995.0	9414.2	9128.7
35°	12621.3	12513.8	12210.6	11652.3	11191.8	10952.8	10715.3	10434.6	9956.5	9667.7
37.5°	13327.2	13219.7	12804.2	12223.4	11759.8	11594.5	11382.7	10906.3	10500.4	10227.6
40°	13773.2	13749.1	13360.9	12703.1	12221.8	12140.0	12069.4	11453.3	11103.6	10850.1
42.5°	13887.1	13940.1	13632.0	13091.4	12632.5	12566.7	12732.0	12072.6	11780.6	11538.4
45°	13612.8	13765.2	13563.0	13195.6	12924.5	12889.2	13319.2	12749.6	12529.8	12308.4
47.5°	12918.1	13176.4	13093.0	13041.6	13003.1	13155.5	13835.8	13468.4	13378.5	13186.0
50°	11515.9	12005.2	12151.2	12475.3	12847.5	13362.5	14305.8	14252.9	14370.0	14175.9
52.5°	9091.8	9765.6	10612.7	11424.5	12369.4	13293.5	14822.4	15379.1	15873.3	15767.4
55°	7505.1	7808.3	8459.6	9948.5	11442.1	13003.1	15055.1	16288.8	17365.3	17270.6
57.5°	6285.8	6556.9	6958.0	8201.4	10039.9	12343.7	15199.5	16843.9	18387.3	18377.6
60°	4978.2	5265.4	5676.1	6556.9	8401.9	11204.7	15167.4	17476.0	19691.6	19771.8
62.5°	3502.3	3818.3	4273.9	5095.4	6728.6	9728.7	14512.8	17933.2	21226.9	21445.1
65°	2302.2	2510.8	2854.1	3563.2	5013.5	7830.8	13263.0	17992.6	22869.8	23238.8
67.5°	1614.0	1694.2	1896.3	2281.4	3304.9	6005.0	11272.0	17378.1	23965.5	24381.1
70°	1259.4	1299.5	1402.2	1556.2	2076.0	4038.1	8637.7	15780.2	23731.3	24164.5
72.5°	1087.7	1126.2	1164.7	1184.0	1392.6	2493.1	5851.0	13194.0	21525.3	21818.9
75°	986.7	996.3	1028.4	1022.0	1062.1	1617.2	3377.1	9613.2	16983.5	16882.4
77.5°	829.4	842.3	895.2	887.2	943.3	1105.4	1753.5	6204.0	11010.5	10323.9
80°	702.7	709.1	766.9	757.2	819.8	800.6	895.2	3162.1	4670.2	3956.3
82.5°	243.9	301.6	585.6	603.2	625.7	484.5	516.6	1289.9	1426.3	1092.6
85°	118.7	126.7	298.4	423.5	421.9	243.9	251.9	460.4	449.2	353.0
87.5°	19.3	24.1	35.3	165.2	131.6	64.2	86.6	89.8	93.1	80.2
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°
3646.6	0°	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6	3646.6
3776.6	2.5°	3686.8	3606.5	3438.1	3282.5	3160.5	3043.4	2977.6	2921.5	2889.4	2883.0
3953.1	5°	3786.2	3621.0	3314.6	3056.3	2887.8	2762.7	2696.9	2655.2	2634.3	2621.5
4190.5	7.5°	3929.0	3686.8	3250.4	2956.8	2780.3	2690.5	2656.8	2650.4	2648.8	2650.4
4477.7	10°	4126.3	3794.2	3244.0	2932.7	2785.1	2735.4	2733.8	2735.4	2741.8	2743.4
4790.5	12.5°	4339.7	3904.9	3269.6	2953.6	2846.1	2818.8	2814.0	2812.4	2817.2	2820.4
5106.6	15°	4572.3	4050.9	3312.9	2998.5	2913.5	2884.6	2879.8	2870.2	2868.5	2866.9
5438.7	17.5°	4811.4	4195.3	3361.1	3046.6	2956.8	2916.7	2899.0	2876.6	2858.9	2854.1
5782.0	20°	5053.6	4338.1	3394.8	3070.7	2960.0	2903.8	2868.5	2830.0	2799.6	2781.9
6128.6	22.5°	5311.9	4487.3	3415.6	3064.3	2931.1	2854.1	2789.9	2745.0	2698.5	2668.0
6478.3	25°	5563.8	4617.3	3414.0	3030.6	2875.0	2777.1	2695.3	2637.5	2573.4	2541.3
6839.3	27.5°	5806.1	4734.4	3373.9	2971.2	2794.7	2685.7	2587.8	2518.8	2456.2	2425.8
7203.5	30°	6056.4	4832.3	3311.3	2884.6	2700.1	2579.8	2472.3	2412.9	2356.8	2327.9
7588.5	32.5°	6305.0	4922.1	3223.1	2777.1	2591.0	2475.5	2369.6	2315.1	2281.4	2281.4
8002.4	35°	6568.1	4984.7	3106.0	2652.0	2475.5	2364.8	2281.4	2249.3	2246.1	2226.8
8440.4	37.5°	6845.7	5024.8	2963.2	2523.6	2361.6	2257.3	2231.6	2193.1	2161.0	2119.3
8921.7	40°	7137.7	5064.9	2791.5	2390.5	2241.3	2183.5	2172.3	2120.9	2029.5	1926.8
9467.2	42.5°	7492.2	5092.2	2613.5	2257.3	2114.5	2095.3	2111.3	2023.1	1877.1	1800.1
10124.9	45°	7902.9	5137.1	2449.8	2125.7	1984.6	1984.6	2051.9	1936.4	1816.1	1768.0
10875.8	47.5°	8435.6	5241.4	2297.4	1981.4	1864.2	1896.3	1920.4	1832.1	1764.8	1705.4
11790.2	50°	9205.7	5491.6	2140.2	1835.4	1772.8	1837.0	1803.3	1751.9	1673.3	1625.2
13243.8	52.5°	10161.8	5639.2	2000.6	1703.8	1694.2	1758.3	1710.2	1662.1	1602.7	1538.6
14345.9	55°	10813.2	5666.5	1883.5	1607.5	1641.2	1634.8	1617.2	1573.9	1541.8	1456.7
15433.7	57.5°	11541.6	5721.1	1787.2	1549.8	1607.5	1537.0	1530.5	1493.6	1451.9	1394.2
16760.5	60°	12412.7	5806.1	1703.8	1527.3	1578.7	1472.8	1440.7	1426.3	1384.5	1355.7
18356.8	62.5°	13362.5	5883.1	1618.8	1530.5	1545.0	1410.2	1362.1	1357.3	1331.6	1322.0
19855.2	65°	14010.6	5672.9	1512.9	1527.3	1492.0	1346.0	1285.1	1283.5	1262.6	1259.4
20505.0	67.5°	13784.4	5007.1	1370.1	1482.4	1437.5	1281.9	1214.5	1208.1	1180.8	1182.4
19826.4	70°	12651.8	4057.4	1172.8	1371.7	1370.1	1224.1	1140.7	1119.8	1082.9	1089.3
17238.6	72.5°	10527.6	3006.5	908.1	1187.2	1262.6	1171.2	1055.7	1022.0	975.4	981.9
12725.6	75°	7602.9	2043.9	661.0	903.2	1099.0	1108.6	972.2	914.5	858.3	867.9
7083.1	77.5°	3890.5	1158.3	486.1	622.5	863.1	1007.5	896.8	819.8	807.0	896.8
2042.3	80°	1269.0	580.8	336.9	436.4	566.3	824.6	786.1	697.9	694.7	715.5
428.4	82.5°	378.6	245.5	216.6	287.2	312.8	632.1	678.6	527.8	454.0	478.1
142.8	85°	130.0	118.7	123.5	142.8	149.2	370.6	474.9	349.7	330.5	364.2
32.1	87.5°	30.5	41.7	35.3	32.1	32.1	89.8	184.5	146.0	202.1	134.8
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>
3646.6
2883.0
2619.9
2655.2
2745.0
2822.0
2865.3
2858.9
2788.3
2669.6
2541.3
2424.1
2326.3
2283.0
2222.0
2112.9
1912.4
1801.7
1776.0
1703.8
1620.4
1525.7
1458.3
1374.9
1363.7
1322.0
1257.8
1182.4
1095.8
980.2
871.2
884.0
614.5
494.1
359.4
130.0
0.0

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