

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: P954084

Luminaire Tested: **GALN-SB7B-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954084
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-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29557 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

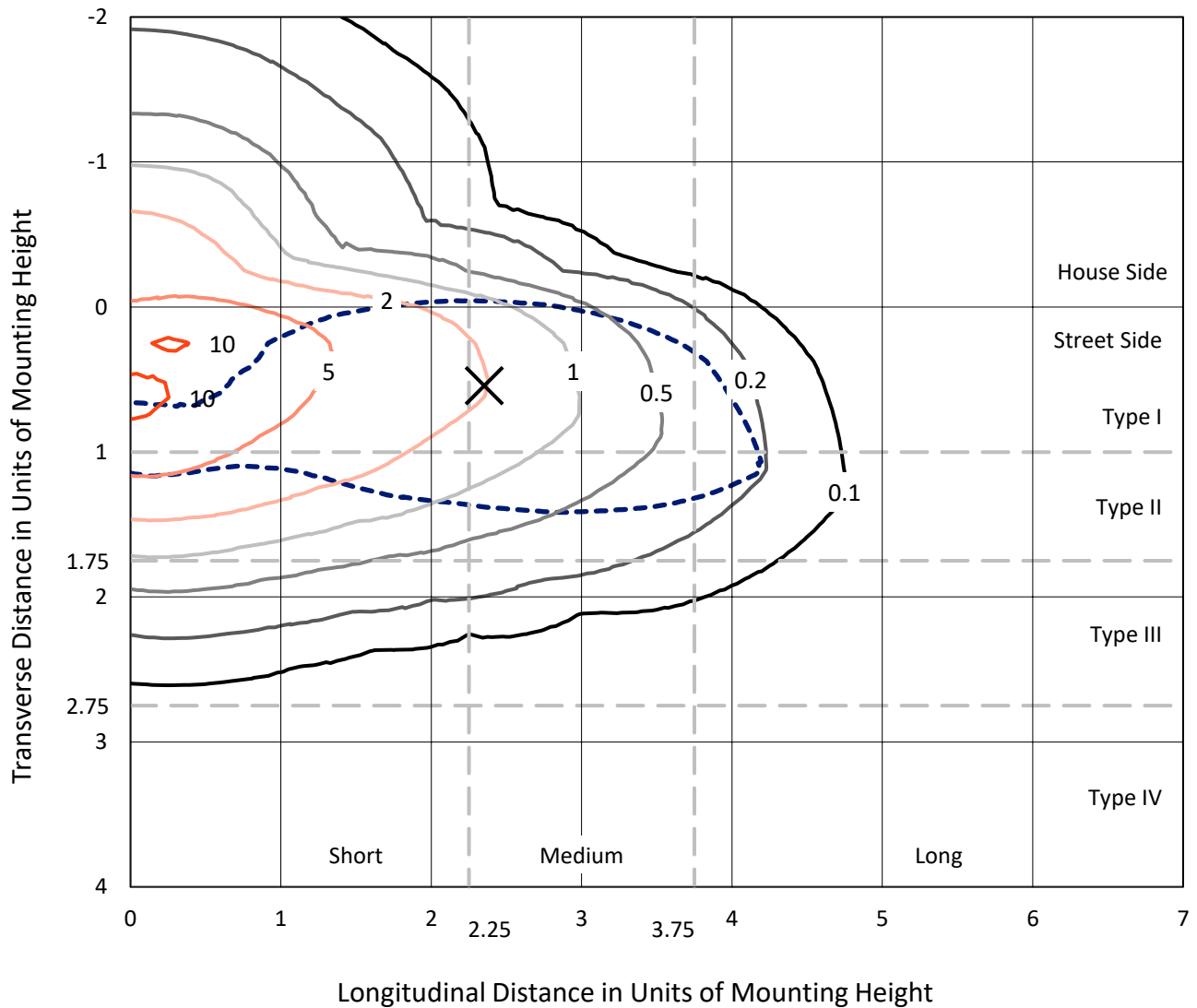
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

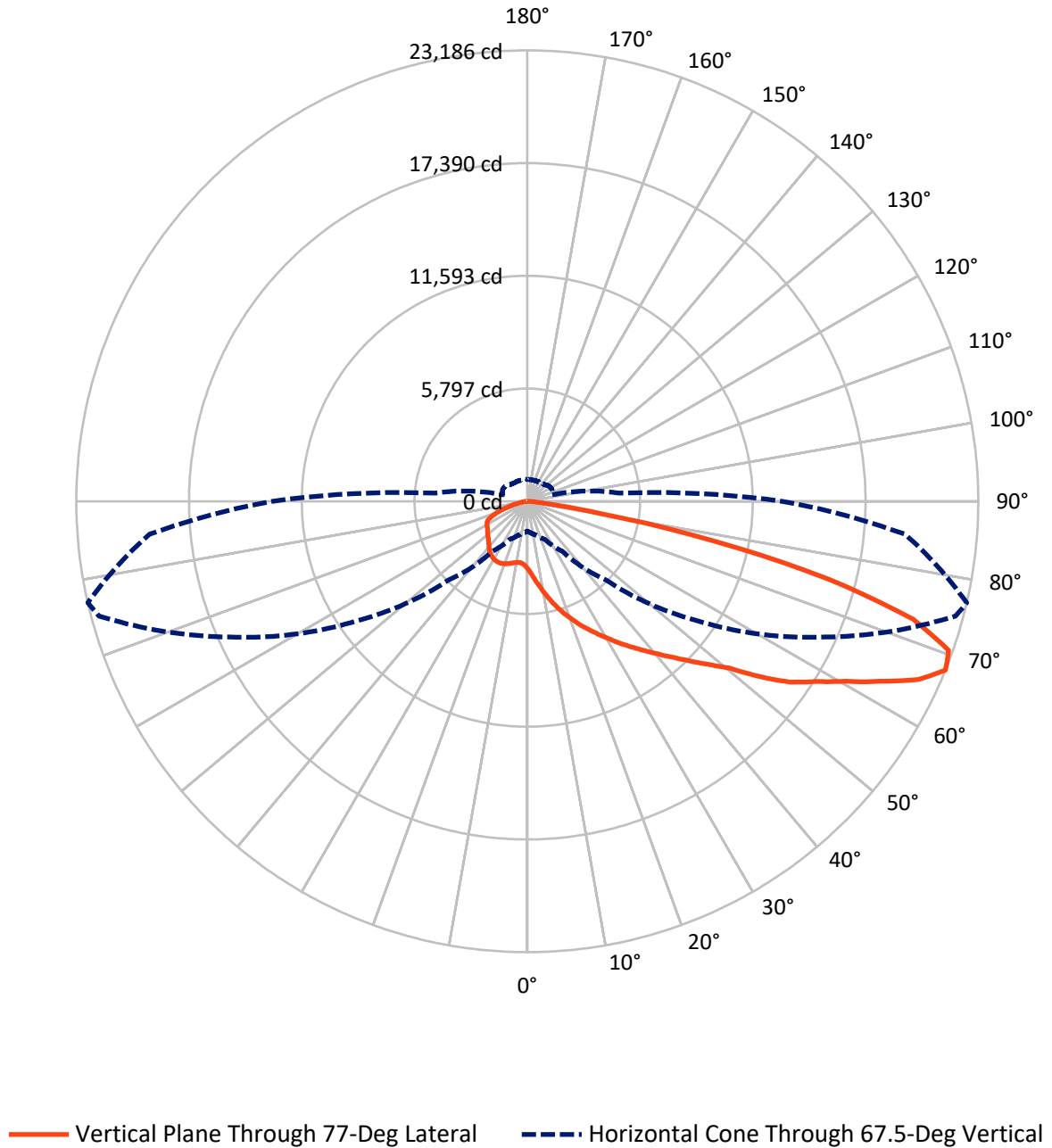
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	5591.0	0.0	5591.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	23966.0	0.0	23966.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	29557.0	0.0	29557.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.7	1.3
10°-20°	1335.4	4.5
20°-30°	2521.4	8.5
30°-40°	4062.0	13.7
40°-50°	5556.0	18.8
50°-60°	6267.3	21.2
60°-70°	5849.7	19.8
70°-80°	3206.6	10.8
80°-90°	386.8	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°	29557.0	100.0
0°-180°	29557.0	100.0



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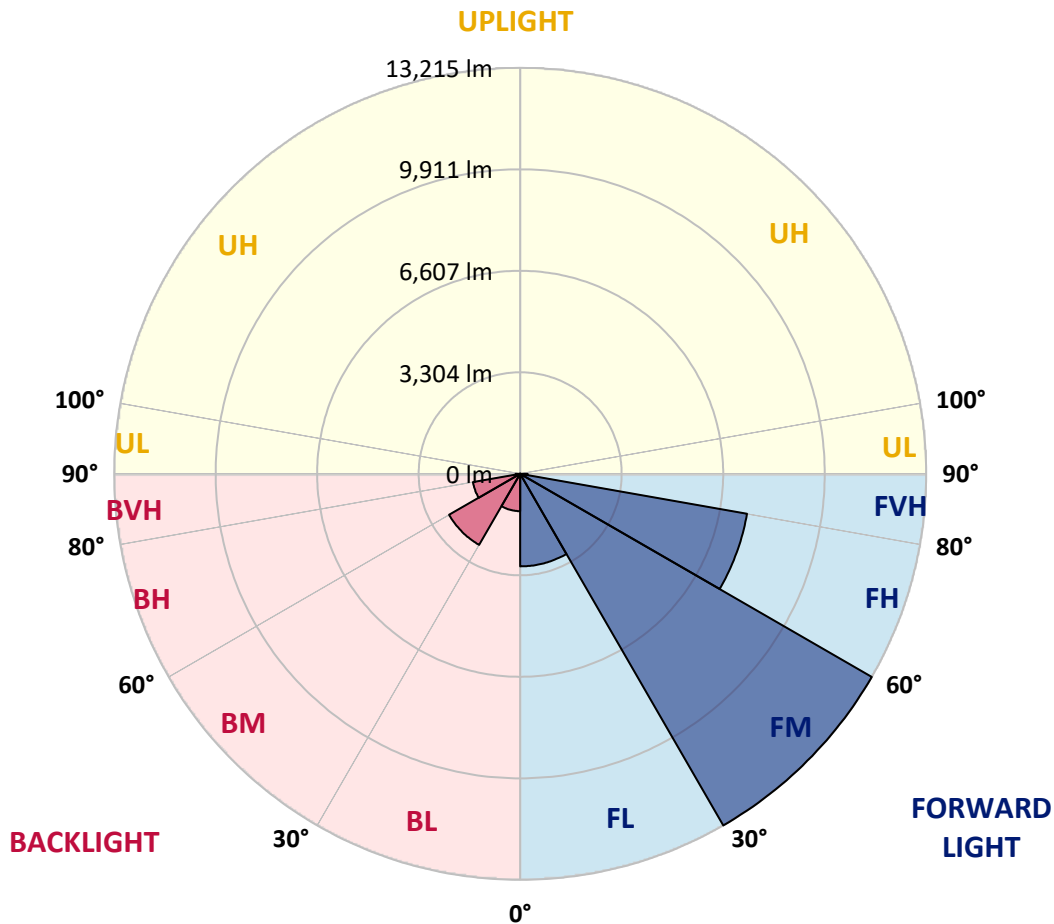
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3013.0	10.2			
FM (30°-60°)	13214.6	44.7			
FH (60°-80°)	7496.5	25.4			G3/7500
FVH (80°-90°)	241.9	0.8			G3/500
BL (0°-30°)	1215.6	4.1	B3/2500		
BM (30°-60°)	2670.7	9.0	B3/5000		
BH (60°-80°)	1559.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	144.9	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°	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0
2.5°	4342.2	4372.7	4334.6	4334.6	4206.4	4139.3	4011.1	3913.5	3738.0	3707.5
5°	5132.5	5170.7	5117.3	5094.4	4943.3	4804.5	4589.4	4377.3	4064.5	4032.5
7.5°	5744.3	5793.1	5745.8	5721.4	5587.2	5431.6	5179.8	4883.8	4442.9	4380.3
10°	6243.2	6250.9	6235.6	6244.8	6139.5	6011.3	5753.5	5408.7	4857.9	4772.4
12.5°	6525.5	6560.6	6591.1	6646.0	6627.7	6548.4	6316.5	5904.5	5297.3	5187.4
15°	6658.2	6719.3	6787.9	6914.5	7016.8	7036.6	6859.6	6437.0	5744.3	5611.6
17.5°	6705.5	6763.5	6871.8	7054.9	7274.6	7422.6	7343.3	6954.2	6186.8	6034.2
20°	6945.1	6961.8	7027.5	7201.4	7439.4	7685.0	7744.5	7451.6	6624.7	6452.3
22.5°	7457.7	7424.1	7442.4	7521.8	7692.7	7930.7	8066.5	7891.0	7074.7	6876.4
25°	8304.5	8206.8	8109.2	8017.6	8104.6	8238.9	8393.0	8330.4	7546.2	7294.5
27.5°	9374.0	9255.0	9039.9	8739.3	8634.0	8681.3	8750.0	8737.8	7982.6	7727.8
30°	10426.7	10287.9	10031.6	9596.8	9319.1	9194.0	9142.1	9107.0	8457.0	8185.5
32.5°	11267.4	11157.6	10905.8	10419.1	10016.3	9802.7	9630.3	9505.2	8952.9	8681.3
35°	12002.8	11900.6	11612.2	11081.3	10643.4	10416.1	10190.3	9923.3	9468.6	9194.0
37.5°	12674.1	12571.9	12176.7	11624.4	11183.5	11026.4	10825.0	10371.8	9985.8	9726.4
40°	13098.3	13075.4	12706.2	12080.6	11622.9	11545.1	11478.0	10892.1	10559.5	10318.4
42.5°	13206.6	13257.0	12964.0	12449.8	12013.5	11950.9	12108.1	11481.0	11203.3	10973.0
45°	12945.7	13090.7	12898.4	12549.0	12291.2	12257.6	12666.5	12124.9	11915.8	11705.3
47.5°	12285.1	12530.7	12451.4	12402.6	12365.9	12510.9	13157.8	12808.4	12723.0	12539.9
50°	10951.6	11416.9	11555.8	11864.0	12217.9	12707.7	13604.8	13554.5	13665.8	13481.2
52.5°	8646.2	9287.0	10092.6	10864.6	11763.3	12642.1	14096.1	14625.5	15095.4	14994.7
55°	7137.3	7425.7	8045.1	9461.0	10881.4	12365.9	14317.3	15490.6	16514.4	16424.3
57.5°	5977.8	6235.6	6617.0	7799.5	9547.9	11738.9	14454.6	16018.5	17486.2	17477.1
60°	4734.3	5007.4	5398.0	6235.6	7990.2	10655.6	14424.1	16619.6	18726.6	18802.9
62.5°	3330.6	3631.2	4064.5	4845.7	6398.9	9251.9	13801.6	17054.5	20186.8	20394.3
65°	2189.4	2387.7	2714.3	3388.6	4767.9	7447.0	12613.1	17110.9	21749.1	22100.0
67.5°	1534.9	1611.2	1803.4	2169.6	3143.0	5710.8	10719.7	16526.6	22791.2	23186.3
70°	1197.7	1235.8	1333.5	1479.9	1974.3	3840.2	8214.5	15007.0	22568.4	22980.3
72.5°	1034.4	1071.1	1107.7	1126.0	1324.3	2371.0	5564.3	12547.5	20470.5	20749.7
75°	938.3	947.5	978.0	971.9	1010.0	1537.9	3211.6	9142.1	16151.2	16055.1
77.5°	788.8	801.0	851.3	843.7	897.1	1051.2	1667.6	5899.9	10471.0	9818.0
80°	668.3	674.4	729.3	720.1	779.6	761.3	851.3	3007.2	4441.4	3762.4
82.5°	231.9	286.8	556.9	573.7	595.0	460.8	491.3	1226.7	1356.4	1039.0
85°	112.9	120.5	283.8	402.8	401.3	231.9	239.5	437.9	427.2	335.7
87.5°	18.3	22.9	33.6	157.1	125.1	61.0	82.4	85.4	88.5	76.3
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°
3468.0	0°	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0	3468.0
3591.5	2.5°	3506.1	3429.8	3269.6	3121.6	3005.7	2894.3	2831.7	2778.3	2747.8	2741.7
3759.4	5°	3600.7	3443.5	3152.1	2906.5	2746.3	2627.3	2564.7	2525.1	2505.2	2493.0
3985.2	7.5°	3736.5	3506.1	3091.1	2811.9	2644.1	2558.6	2526.6	2520.5	2519.0	2520.5
4258.3	10°	3924.1	3608.3	3085.0	2789.0	2648.6	2601.3	2599.8	2601.3	2607.5	2609.0
4555.8	12.5°	4127.1	3713.6	3109.4	2808.8	2706.6	2680.7	2676.1	2674.6	2679.2	2682.2
4856.4	15°	4348.3	3852.4	3150.6	2851.6	2770.7	2743.2	2738.7	2729.5	2728.0	2726.5
5172.2	17.5°	4575.6	3989.7	3196.4	2897.3	2811.9	2773.8	2757.0	2735.6	2718.8	2714.3
5498.7	20°	4806.0	4125.5	3228.4	2920.2	2814.9	2761.5	2728.0	2691.4	2662.4	2645.6
5828.2	22.5°	5051.6	4267.4	3248.3	2914.1	2787.5	2714.3	2653.2	2610.5	2566.3	2537.3
6160.8	25°	5291.2	4391.0	3246.7	2882.1	2734.1	2641.0	2563.2	2508.3	2447.2	2416.7
6504.1	27.5°	5521.6	4502.4	3208.6	2825.6	2657.8	2554.0	2461.0	2395.4	2335.9	2306.9
6850.5	30°	5759.6	4595.5	3149.1	2743.2	2567.8	2453.4	2351.1	2294.7	2241.3	2213.8
7216.6	32.5°	5996.1	4680.9	3065.2	2641.0	2464.0	2354.2	2253.5	2201.6	2169.6	2169.6
7610.3	35°	6246.3	4740.4	2953.8	2522.0	2354.2	2248.9	2169.6	2139.1	2136.0	2117.7
8026.8	37.5°	6510.2	4778.5	2818.0	2400.0	2245.9	2146.7	2122.3	2085.7	2055.1	2015.5
8484.5	40°	6787.9	4816.7	2654.7	2273.3	2131.4	2076.5	2065.8	2017.0	1930.0	1832.4
9003.3	42.5°	7125.1	4842.6	2485.4	2146.7	2010.9	1992.6	2007.8	1923.9	1785.1	1711.9
9628.8	45°	7515.7	4885.3	2329.8	2021.6	1887.3	1887.3	1951.4	1841.5	1727.1	1681.3
10342.8	47.5°	8022.2	4984.5	2184.8	1884.3	1772.9	1803.4	1826.3	1742.4	1678.3	1621.8
11212.5	50°	8754.6	5222.5	2035.3	1745.4	1685.9	1746.9	1714.9	1666.1	1591.3	1545.6
12594.8	52.5°	9663.9	5362.9	1902.6	1620.3	1611.2	1672.2	1626.4	1580.6	1524.2	1463.2
13643.0	55°	10283.3	5388.8	1791.2	1528.8	1560.8	1554.7	1537.9	1496.7	1466.2	1385.4
14677.4	57.5°	10976.0	5440.7	1699.6	1473.8	1528.8	1461.6	1455.5	1420.4	1380.8	1325.8
15939.2	60°	11804.5	5521.6	1620.3	1452.5	1501.3	1400.6	1370.1	1356.4	1316.7	1289.2
17457.3	62.5°	12707.7	5594.8	1539.4	1455.5	1469.3	1341.1	1295.3	1290.8	1266.3	1257.2
18882.3	65°	13324.1	5394.9	1438.8	1452.5	1418.9	1280.1	1222.1	1220.6	1200.7	1197.7
19500.2	67.5°	13109.0	4761.8	1303.0	1409.8	1367.0	1219.0	1155.0	1148.9	1122.9	1124.5
18854.8	70°	12031.8	3858.5	1115.3	1304.5	1303.0	1164.1	1084.8	1065.0	1029.9	1036.0
16393.8	72.5°	10011.8	2859.2	863.6	1129.0	1200.7	1113.8	1003.9	971.9	927.6	933.7
12102.0	75°	7230.4	1943.8	628.6	859.0	1045.1	1054.3	924.6	869.7	816.3	825.4
6736.0	77.5°	3699.9	1101.6	462.3	592.0	820.8	958.2	852.9	779.6	767.4	852.9
1942.2	80°	1206.8	552.3	320.4	415.0	538.6	784.2	747.6	663.7	660.6	680.5
407.4	82.5°	360.1	233.4	206.0	273.1	297.5	601.1	645.4	502.0	431.8	454.7
135.8	85°	123.6	112.9	117.5	135.8	141.9	352.4	451.6	332.6	314.3	346.3
30.5	87.5°	29.0	39.7	33.6	30.5	30.5	85.4	175.5	138.8	192.2	128.2
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>
3468.0
2741.7
2491.5
2525.1
2610.5
2683.7
2724.9
2718.8
2651.7
2538.8
2416.7
2305.4
2212.3
2171.1
2113.1
2009.4
1818.7
1713.4
1689.0
1620.3
1541.0
1451.0
1386.9
1307.5
1296.9
1257.2
1196.2
1124.5
1042.1
932.2
828.5
840.7
584.3
469.9
341.8
123.6
0.0

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