

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: P955008

Luminaire Tested: **GALN-SB8A-830-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955008  
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-SB8A-830-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

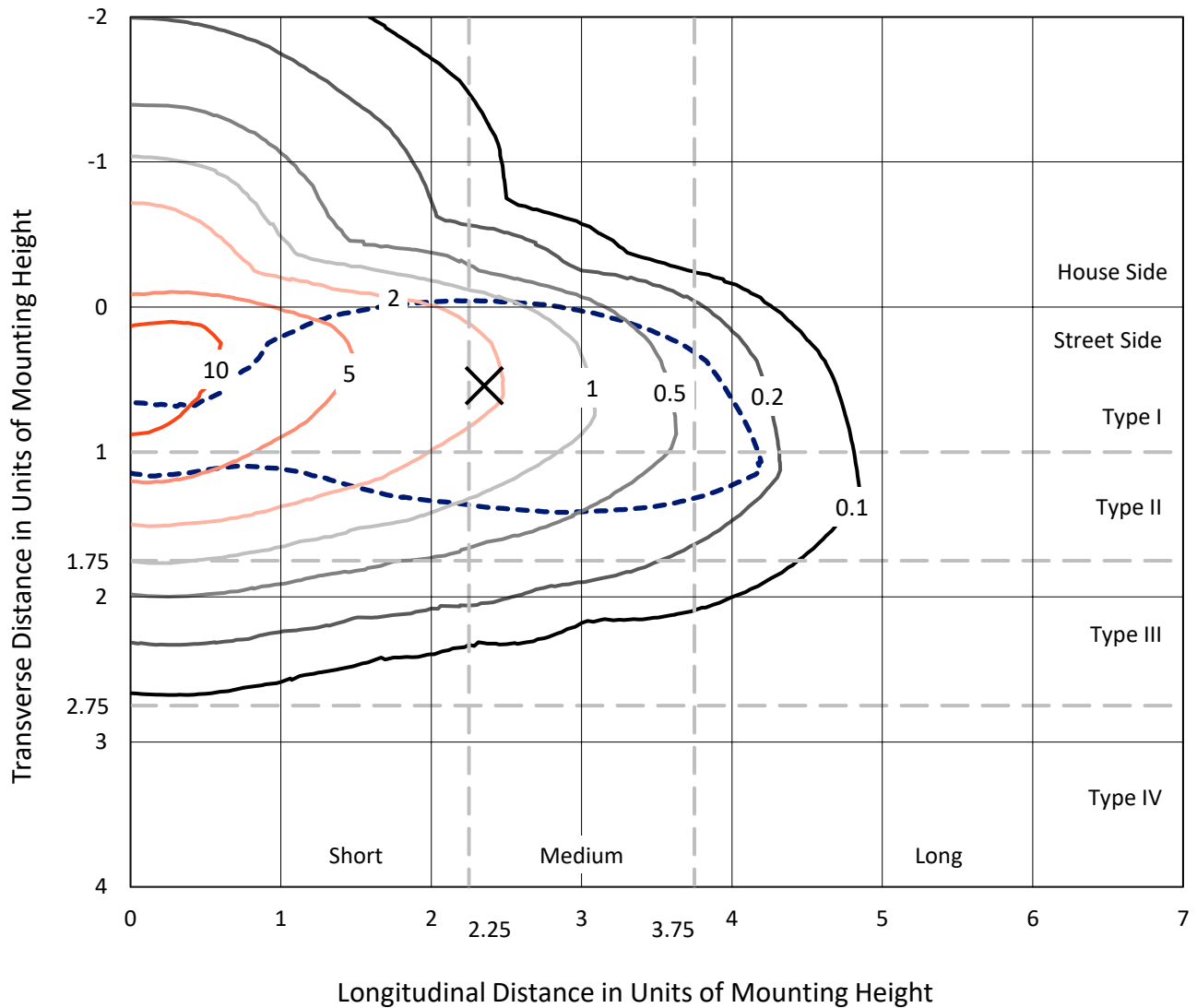
Lumens per Lamp: N/A  
Luminaire Lumens: 33197 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

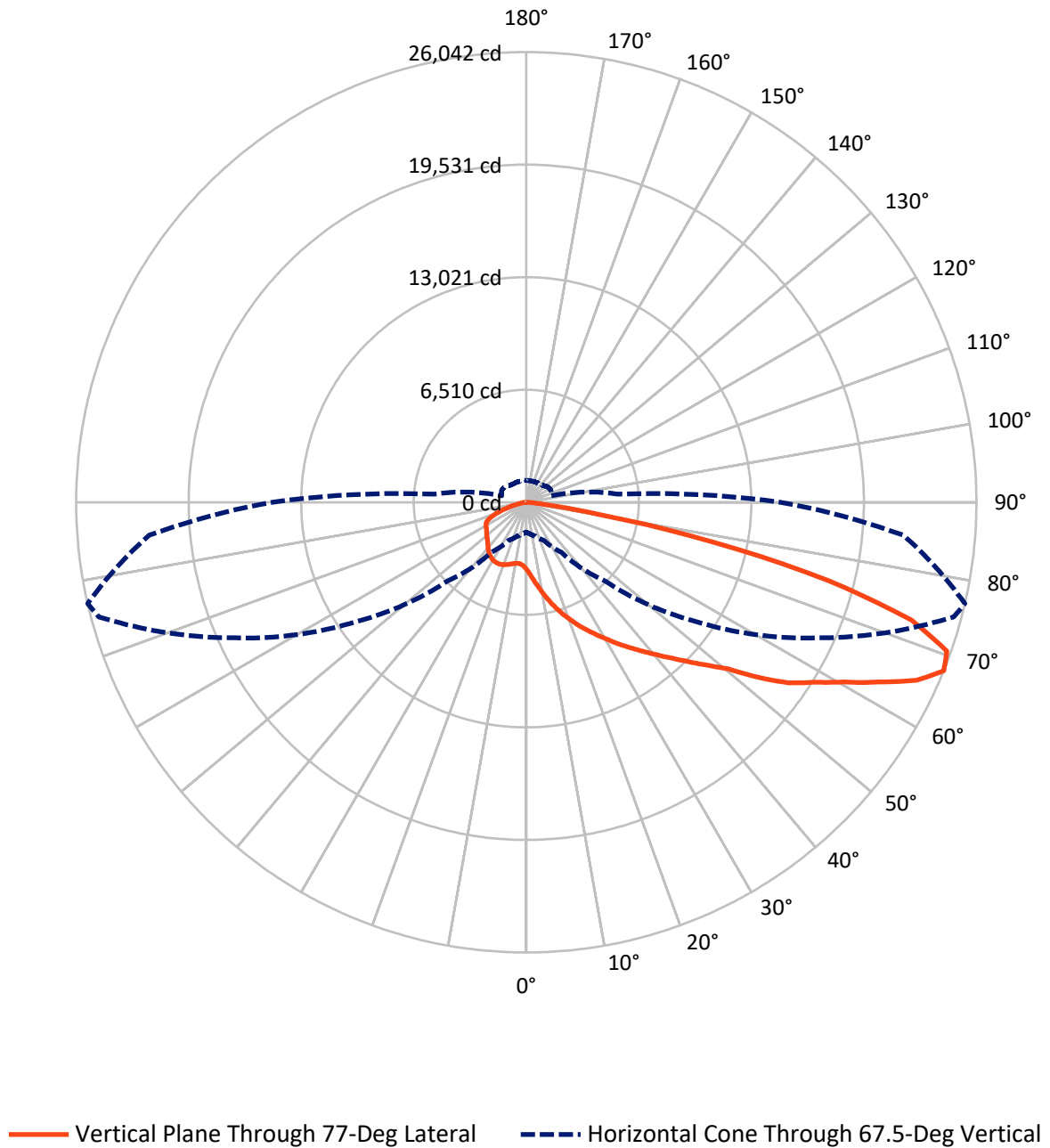
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6279.5	0.0	6279.5
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	26917.5	0.0	26917.5
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	33197.0	0.0	33197.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.5	1.3
10°-20°	1499.9	4.5
20°-30°	2831.9	8.5
30°-40°	4562.2	13.7
40°-50°	6240.3	18.8
50°-60°	7039.1	21.2
60°-70°	6570.1	19.8
70°-80°	3601.5	10.8
80°-90°	434.4	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°	33197.0	100.0
0°-180°	33197.0	100.0

**Coefficient of Utilization**

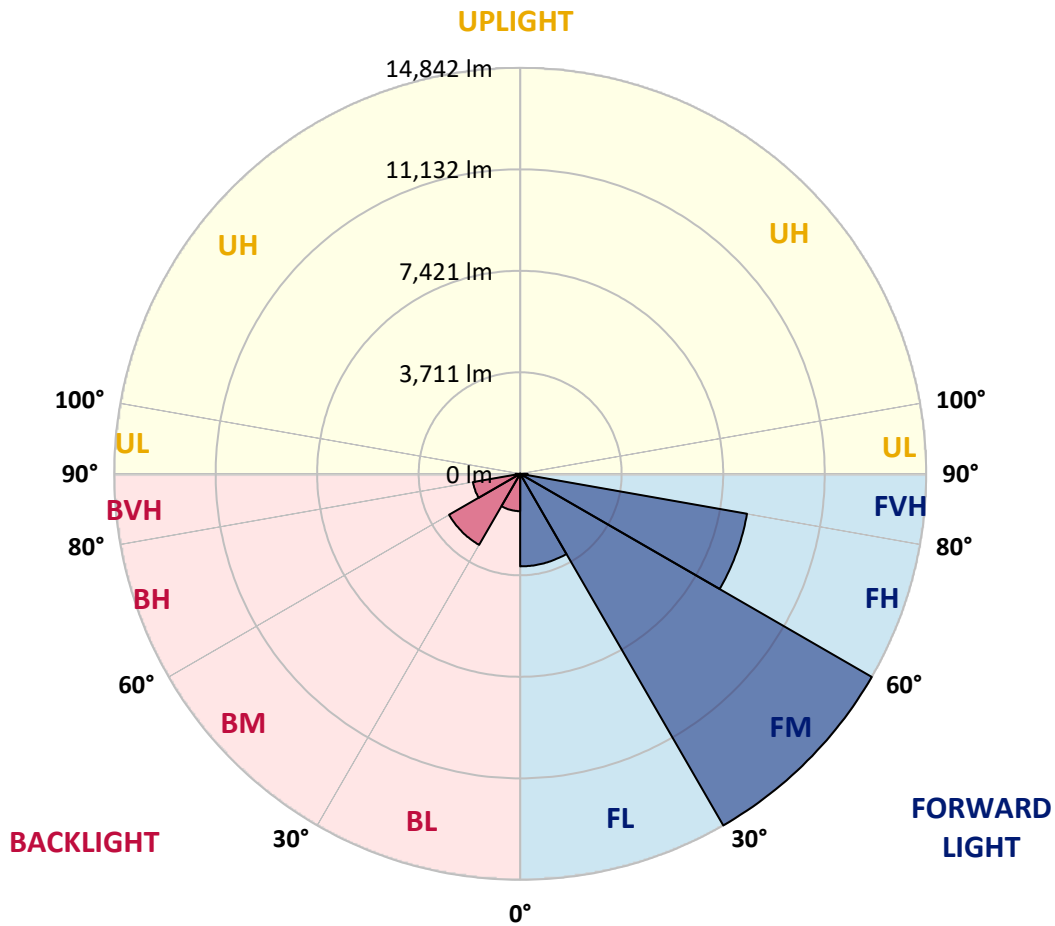


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3384.0	10.2			
FM (30°-60°)	14842.0	44.7			
FH (60°-80°)	8419.7	25.4			G4/12000
FVH (80°-90°)	271.7	0.8			G3/500
BL (0°-30°)	1365.3	4.1	B3/2500		
BM (30°-60°)	2999.6	9.0	B3/5000		
BH (60°-80°)	1751.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	162.7	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°	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0
2.5°	4876.9	4911.2	4868.4	4868.4	4724.4	4649.0	4505.1	4395.4	4198.3	4164.1
5°	5764.6	5807.4	5747.5	5721.7	5552.1	5396.2	5154.5	4916.4	4565.1	4529.1
7.5°	6451.7	6506.6	6453.5	6426.0	6275.2	6100.5	5817.7	5485.3	4990.0	4919.8
10°	7012.1	7020.7	7003.5	7013.8	6895.6	6751.6	6462.0	6074.8	5456.1	5360.2
12.5°	7329.1	7368.5	7402.8	7464.5	7443.9	7354.8	7094.4	6631.7	5949.7	5826.3
15°	7478.2	7546.7	7623.9	7766.1	7880.9	7903.2	7704.4	7229.7	6451.7	6302.7
17.5°	7531.3	7596.4	7718.1	7923.7	8170.5	8336.7	8247.6	7810.6	6948.7	6777.3
20°	7800.4	7819.2	7892.9	8088.2	8355.6	8631.5	8698.3	8369.3	7440.5	7246.9
22.5°	8376.1	8338.4	8359.0	8448.1	8640.0	8907.4	9059.9	8862.8	7946.0	7723.2
25°	9327.2	9217.5	9107.8	9005.0	9102.7	9253.5	9426.6	9356.3	8475.5	8192.8
27.5°	10528.4	10394.8	10153.1	9815.6	9697.3	9750.5	9827.6	9813.9	8965.6	8679.4
30°	11710.8	11554.9	11267.0	10778.6	10466.7	10326.2	10268.0	10228.5	9498.5	9193.5
32.5°	12655.0	12531.6	12248.9	11702.3	11249.9	11010.0	10816.3	10675.8	10055.5	9750.5
35°	13481.0	13366.2	13042.3	12446.0	11954.2	11698.8	11445.2	11145.3	10634.7	10326.2
37.5°	14235.0	14120.2	13676.3	13056.0	12560.8	12384.3	12158.1	11649.1	11215.6	10924.3
40°	14711.4	14685.7	14271.0	13568.4	13054.3	12966.9	12891.5	12233.5	11859.9	11589.2
42.5°	14833.0	14889.6	14560.6	13983.1	13493.0	13422.7	13599.2	12894.9	12583.1	12324.3
45°	14540.0	14702.8	14486.9	14094.5	13804.9	13767.2	14226.4	13618.1	13383.3	13146.8
47.5°	13798.0	14073.9	13984.8	13929.9	13888.8	14051.6	14778.2	14385.8	14289.8	14084.2
50°	12300.3	12823.0	12978.9	13325.0	13722.6	14272.7	15280.3	15223.7	15348.8	15141.5
52.5°	9711.0	10430.8	11335.5	12202.6	13211.9	14199.0	15832.1	16426.7	16954.5	16841.4
55°	8016.3	8340.1	9035.9	10626.1	12221.5	13888.8	16080.5	17398.3	18548.1	18447.0
57.5°	6713.9	7003.5	7431.9	8760.0	10723.8	13184.5	16234.8	17991.2	19639.7	19629.4
60°	5317.3	5624.1	6062.8	7003.5	8974.2	11967.9	16200.5	18666.4	21032.9	21118.6
62.5°	3740.8	4078.4	4565.1	5442.4	7186.9	10391.3	15501.3	19154.8	22672.8	22905.8
65°	2459.0	2681.8	3048.5	3805.9	5355.0	8364.1	14166.4	19218.2	24427.5	24821.7
67.5°	1723.9	1809.6	2025.5	2436.8	3530.0	6414.0	12039.8	18561.8	25597.9	26041.8
70°	1345.2	1388.0	1497.7	1662.2	2217.4	4313.2	9226.1	16855.1	25347.7	25810.4
72.5°	1161.8	1203.0	1244.1	1264.6	1487.4	2663.0	6249.5	14092.7	22991.5	23305.1
75°	1053.9	1064.2	1098.4	1091.6	1134.4	1727.3	3607.2	10268.0	18140.3	18032.3
77.5°	885.9	899.6	956.2	947.6	1007.6	1180.7	1873.0	6626.5	11760.5	11027.1
80°	750.6	757.4	819.1	808.8	875.7	855.1	956.2	3377.5	4988.3	4225.8
82.5°	260.5	322.2	625.5	644.3	668.3	517.5	551.8	1377.7	1523.4	1167.0
85°	126.8	135.4	318.7	452.4	450.7	260.5	269.0	491.8	479.8	377.0
87.5°	20.6	25.7	37.7	176.5	140.5	68.5	92.5	96.0	99.4	85.7
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°
3895.0	0°	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0	3895.0
4033.8	2.5°	3937.9	3852.2	3672.3	3506.0	3375.8	3250.7	3180.5	3120.5	3086.2	3079.4
4222.3	5°	4044.1	3867.6	3540.3	3264.4	3084.5	2950.8	2880.6	2836.0	2813.8	2800.0
4476.0	7.5°	4196.6	3937.9	3471.8	3158.2	2969.7	2873.7	2837.7	2830.9	2829.2	2830.9
4782.7	10°	4407.4	4052.7	3464.9	3132.5	2974.8	2921.7	2920.0	2921.7	2928.6	2930.3
5116.8	12.5°	4635.3	4170.9	3492.3	3154.8	3039.9	3010.8	3005.7	3004.0	3009.1	3012.5
5454.4	15°	4883.8	4326.9	3538.6	3202.7	3111.9	3081.1	3075.9	3065.7	3063.9	3062.2
5809.1	17.5°	5139.1	4481.1	3590.0	3254.1	3158.2	3115.3	3096.5	3072.5	3053.7	3048.5
6175.9	20°	5397.9	4633.6	3626.0	3279.9	3161.6	3101.6	3063.9	3022.8	2990.3	2971.4
6546.0	22.5°	5673.8	4793.0	3648.3	3273.0	3130.8	3048.5	2980.0	2932.0	2882.3	2849.7
6919.6	25°	5942.8	4931.8	3646.6	3237.0	3070.8	2966.3	2878.9	2817.2	2748.6	2714.4
7305.1	27.5°	6201.6	5056.9	3603.7	3173.6	2985.1	2868.6	2764.1	2690.4	2623.5	2591.0
7694.1	30°	6468.9	5161.4	3536.9	3081.1	2884.0	2755.5	2640.7	2577.3	2517.3	2486.5
8105.4	32.5°	6734.5	5257.4	3442.6	2966.3	2767.5	2644.1	2531.0	2472.7	2436.8	2436.8
8547.5	35°	7015.5	5324.2	3317.6	2832.6	2644.1	2525.9	2436.8	2402.5	2399.1	2378.5
9015.3	37.5°	7312.0	5367.0	3165.0	2695.5	2522.4	2411.1	2383.6	2342.5	2308.2	2263.7
9529.4	40°	7623.9	5409.9	2981.7	2553.3	2393.9	2332.2	2320.2	2265.4	2167.7	2058.0
10112.0	42.5°	8002.6	5439.0	2791.5	2411.1	2258.5	2238.0	2255.1	2160.9	2004.9	1922.7
10814.6	45°	8441.3	5487.0	2616.7	2270.5	2119.7	2119.7	2191.7	2068.3	1939.8	1888.4
11616.6	47.5°	9010.2	5598.4	2453.9	2116.3	1991.2	2025.5	2051.2	1956.9	1885.0	1821.6
12593.3	50°	9832.7	5865.7	2286.0	1960.4	1893.5	1962.1	1926.1	1871.3	1787.3	1735.9
14145.9	52.5°	10854.0	6023.3	2136.9	1819.9	1809.6	1878.1	1826.7	1775.3	1711.9	1643.4
15323.1	55°	11549.7	6052.5	2011.8	1717.0	1753.0	1746.2	1727.3	1681.1	1646.8	1556.0
16484.9	57.5°	12327.7	6110.7	1909.0	1655.3	1717.0	1641.6	1634.8	1595.4	1550.8	1489.1
17902.1	60°	13258.2	6201.6	1819.9	1631.4	1686.2	1573.1	1538.8	1523.4	1478.8	1448.0
19607.1	62.5°	14272.7	6283.8	1729.0	1634.8	1650.2	1506.3	1454.9	1449.7	1422.3	1412.0
21207.7	65°	14965.0	6059.3	1615.9	1631.4	1593.7	1437.7	1372.6	1370.9	1348.6	1345.2
21901.7	67.5°	14723.4	5348.2	1463.4	1583.4	1535.4	1369.2	1297.2	1290.3	1261.2	1262.9
21176.8	70°	13513.5	4333.7	1252.7	1465.1	1463.4	1307.5	1218.4	1196.1	1156.7	1163.5
18412.8	72.5°	11244.7	3211.3	969.9	1268.1	1348.6	1250.9	1127.6	1091.6	1041.9	1048.7
13592.4	75°	8120.8	2183.1	706.0	964.8	1173.8	1184.1	1038.4	976.8	916.8	927.1
7565.6	77.5°	4155.5	1237.2	519.2	664.9	921.9	1076.1	957.9	875.7	861.9	957.9
2181.4	80°	1355.5	620.3	359.9	466.1	604.9	880.8	839.7	745.4	742.0	764.3
457.5	82.5°	404.4	262.2	231.3	306.7	334.2	675.2	724.9	563.8	485.0	510.7
152.5	85°	138.8	126.8	131.9	152.5	159.4	395.8	507.2	373.6	353.0	389.0
34.3	87.5°	32.6	44.6	37.7	34.3	34.3	96.0	197.1	155.9	215.9	143.9
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>
3895.0
3079.4
2798.3
2836.0
2932.0
3014.2
3060.5
3053.7
2978.3
2851.4
2714.4
2589.3
2484.7
2438.5
2373.4
2256.8
2042.6
1924.4
1897.0
1819.9
1730.7
1629.6
1557.7
1468.6
1456.6
1412.0
1343.5
1262.9
1170.4
1047.0
930.5
944.2
656.3
527.8
383.8
138.8
0.0

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