

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: P956430

Luminaire Tested: **GALN-SB9A-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

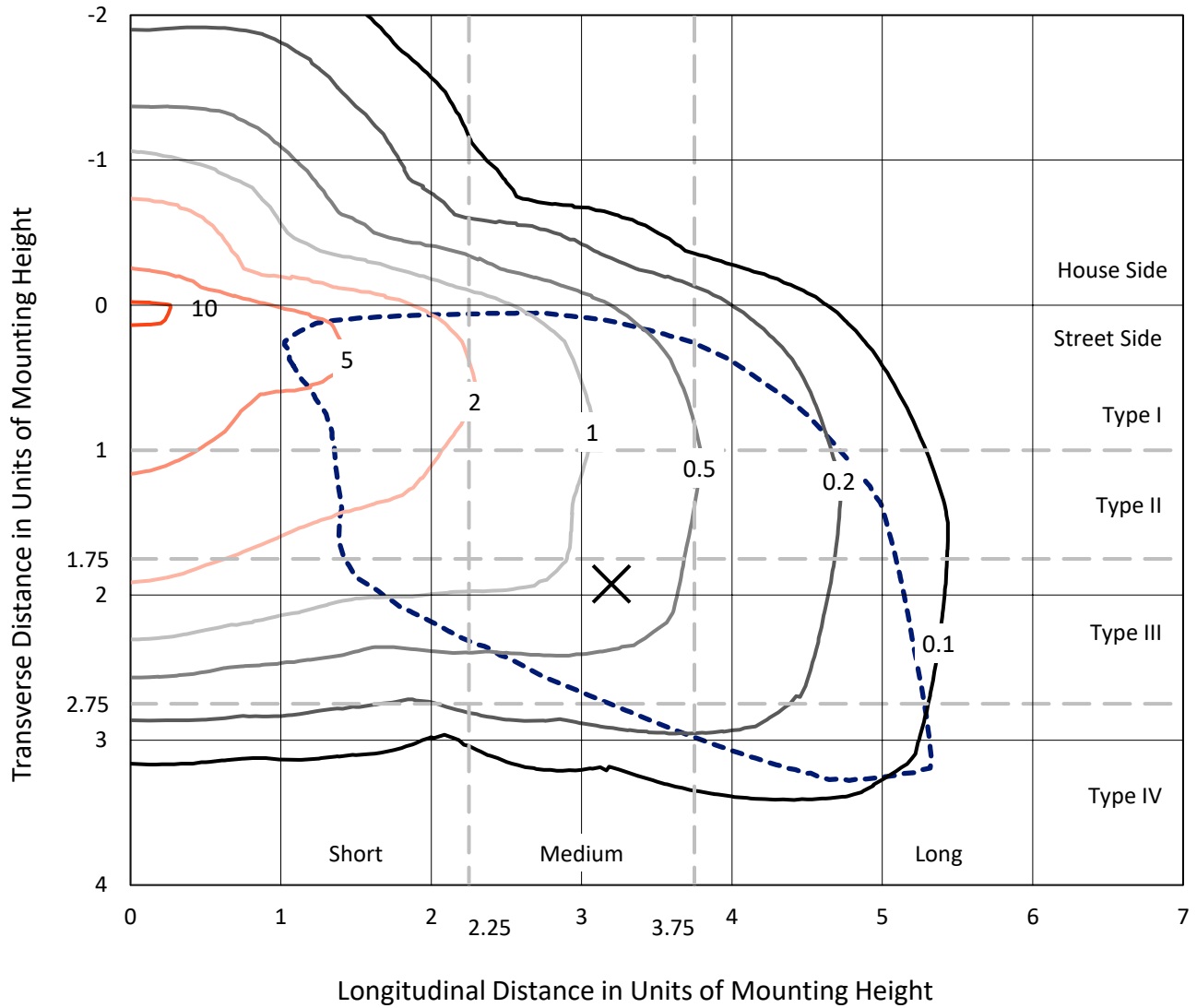
Lumens per Lamp: N/A  
Luminaire Lumens: 35881 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

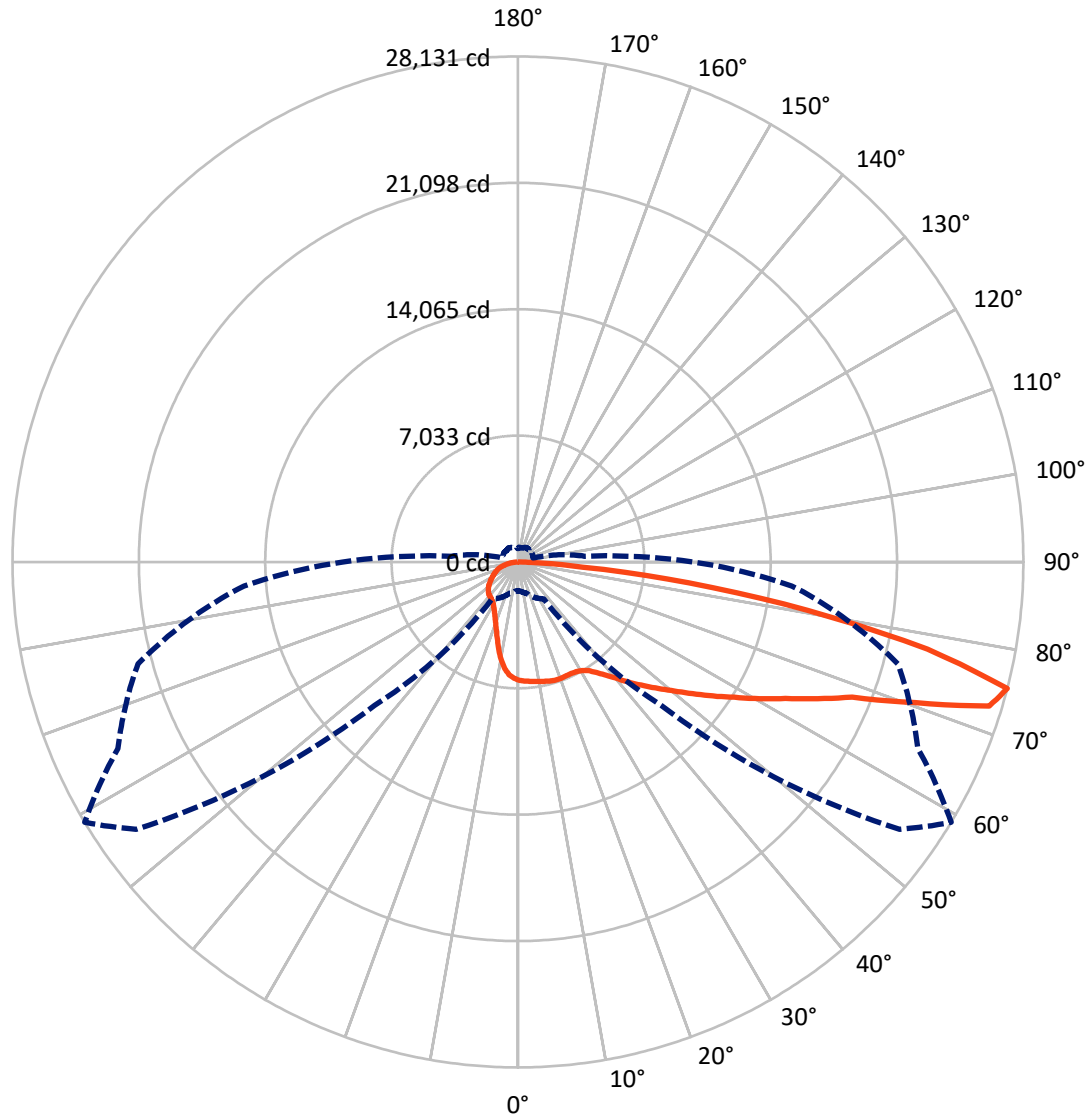
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6729.7	0.0	6729.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	29151.3	0.0	29151.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	35881.0	0.0	35881.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.5	1.6
10°-20°	1509.4	4.2
20°-30°	2292.7	6.4
30°-40°	3408.0	9.5
40°-50°	5068.4	14.1
50°-60°	6879.7	19.2
60°-70°	8399.0	23.4
70°-80°	6591.4	18.4
80°-90°	1141.8	3.2
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°	35881.0	100.0
0°-180°	35881.0	100.0



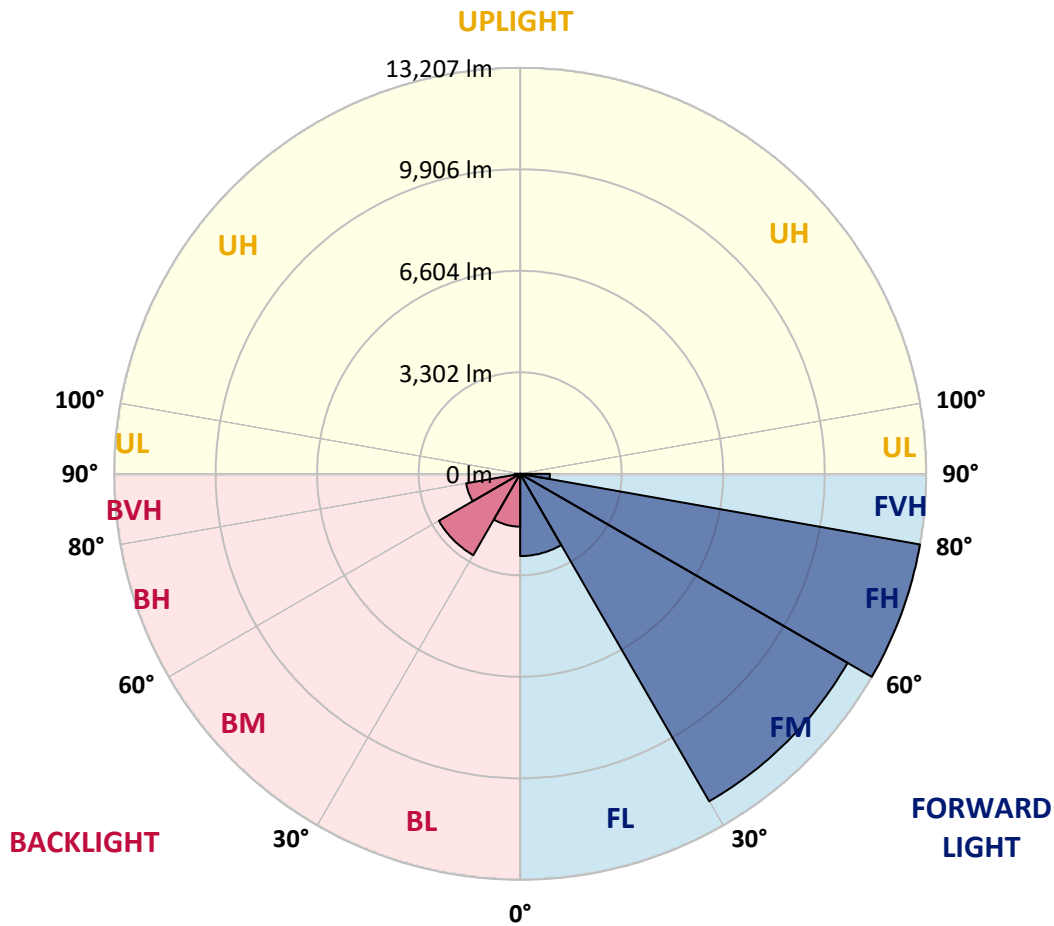
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2675.3	7.5			
FM (30°-60°)	12301.5	34.3			
FH (60°-80°)	13207.4	36.8			G5
FVH (80°-90°)	967.0	2.7			G5
BL (0°-30°)	1717.4	4.8	B3/2500		
BM (30°-60°)	3054.6	8.5	B3/5000		
BH (60°-80°)	1783.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	174.8	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-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9
2.5°	6641.9	6618.7	6641.9	6632.2	6628.3	6620.6	6622.6	6636.1	6628.3	6638.0
5°	6597.5	6583.9	6607.1	6601.3	6626.4	6630.3	6655.4	6670.8	6680.5	6682.4
7.5°	6524.1	6510.6	6543.4	6570.4	6624.5	6639.9	6692.0	6717.1	6730.6	6753.8
10°	6255.8	6250.0	6331.1	6433.4	6560.8	6639.9	6719.1	6761.5	6782.8	6844.5
12.5°	5781.0	5788.7	5894.9	6091.7	6346.5	6601.3	6749.9	6811.7	6844.5	6921.7
15°	5327.4	5325.5	5441.3	5651.7	6008.7	6431.5	6765.4	6871.5	6927.5	7041.4
17.5°	5064.9	5057.2	5138.2	5298.4	5630.4	6170.9	6726.8	6904.4	7024.0	7166.9
20°	5016.6	5001.2	5043.6	5122.8	5358.3	5885.2	6626.4	6904.4	7101.2	7286.5
22.5°	5192.3	5167.2	5149.8	5140.2	5244.4	5649.7	6512.5	6881.2	7215.1	7458.3
25°	5545.5	5506.9	5418.1	5331.2	5300.4	5543.6	6412.2	6875.4	7385.0	7690.0
27.5°	6116.8	6068.6	5889.1	5680.6	5493.4	5597.6	6367.8	6910.2	7572.2	7935.1
30°	6825.2	6773.1	6547.3	6226.9	5891.0	5798.4	6423.7	7012.5	7811.6	8261.3
32.5°	7460.3	7402.4	7209.3	6883.1	6429.5	6145.8	6601.3	7207.4	8188.0	8714.9
35°	8023.9	7956.3	7782.6	7481.5	7089.7	6634.1	6921.7	7552.9	8722.6	9452.2
37.5°	8575.9	8496.8	8307.6	7989.1	7715.1	7284.6	7363.8	7996.9	9432.9	10347.9
40°	9193.6	9079.7	8850.0	8535.4	8269.0	8047.0	7944.7	8541.2	10154.8	11347.7
42.5°	9792.0	9683.9	9409.8	9141.5	8807.5	8743.9	8618.4	9178.2	10944.3	12446.0
45°	10436.6	10307.3	9975.3	9635.6	9425.2	9207.1	9270.8	9815.1	11718.3	13565.5
47.5°	11040.8	10896.0	10504.2	10125.9	10010.1	9597.0	9869.2	10515.8	12523.2	14700.5
50°	11367.0	11224.2	10898.0	10556.3	10465.6	10077.6	10517.7	11285.9	13366.7	15831.6
52.5°	11639.2	11484.8	11058.2	10869.0	10842.0	10600.7	11316.8	12166.1	14210.2	16831.4
55°	11928.7	11756.9	11212.6	11042.7	11166.3	11187.5	12264.6	13164.0	15102.0	17806.2
57.5°	12262.6	12044.5	11361.2	11189.4	11482.8	11874.7	13353.2	14198.6	15978.3	18709.5
60°	12577.3	12357.2	11646.9	11423.0	11824.5	12671.8	14602.0	15451.3	16970.4	19514.4
62.5°	12639.0	12457.6	11874.7	11872.7	12287.7	13602.2	16080.6	16715.6	17837.1	20309.7
65°	11569.7	11455.8	11110.3	11855.4	12951.7	14941.8	17727.1	18333.1	18939.2	21004.5
67.5°	8805.6	8821.1	8796.0	10234.0	12415.1	16866.2	20110.9	20064.5	20300.0	21784.4
70°	4026.4	4117.1	4707.8	7064.6	9946.4	17088.2	24052.4	23452.1	22008.3	22793.9
72.5°	2175.3	2244.8	2486.1	3422.3	5979.8	15192.7	26997.9	27424.4	24280.1	23473.3
75°	1596.3	1634.9	1802.8	2175.3	2511.2	11291.7	25942.0	28130.9	24563.9	21888.6
77.5°	1194.8	1212.2	1349.2	1723.7	1285.5	5952.8	20728.5	23297.6	21027.7	17983.8
80°	866.7	886.0	988.3	1293.2	901.4	2177.3	14233.4	16352.7	14401.3	11463.5
82.5°	598.4	606.1	650.5	880.2	629.2	845.4	8076.0	9589.3	8039.3	4022.6
85°	360.9	370.6	389.9	513.4	357.1	401.5	3486.0	3605.6	2403.1	961.2
87.5°	148.6	158.3	173.7	216.2	140.9	112.0	575.2	721.9	449.7	281.8
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°
6585.9	0°	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9	6585.9
6605.2	2.5°	6595.5	6582.0	6545.3	6495.2	6448.8	6390.9	6365.8	6344.6	6325.3	6288.6
6657.3	5°	6636.1	6599.4	6500.9	6373.6	6228.8	6070.5	5916.1	5809.9	5719.2	5651.7
6717.1	7.5°	6697.8	6628.3	6448.8	6188.3	5856.3	5516.5	5209.6	4991.5	4827.5	4767.6
6802.1	10°	6761.5	6678.5	6365.8	5906.4	5333.2	4810.1	4402.8	4178.9	4047.7	4005.2
6902.4	12.5°	6836.8	6715.2	6236.5	5514.6	4748.3	4175.0	3819.9	3688.6	3621.1	3597.9
7026.0	15°	6946.8	6746.1	6041.6	5024.3	4190.5	3711.8	3482.1	3391.4	3356.6	3354.7
7153.4	17.5°	7029.8	6751.9	5738.5	4499.3	3762.0	3431.9	3242.8	3208.0	3231.2	3265.9
7278.8	20°	7122.5	6699.8	5340.9	4020.6	3460.9	3186.8	3107.6	3130.8	3186.8	3237.0
7444.8	22.5°	7188.1	6605.2	4860.3	3648.1	3200.3	3045.9	3042.0	3090.3	3121.2	3146.2
7639.8	25°	7246.0	6445.0	4350.7	3335.4	2986.0	2960.9	3003.4	2988.0	2966.7	2988.0
7834.7	27.5°	7288.5	6192.1	3895.2	3061.3	2835.5	2903.0	2877.9	2843.2	2841.3	2852.9
8064.4	30°	7275.0	5854.3	3520.7	2800.7	2729.3	2794.9	2735.1	2729.3	2723.5	2729.3
8409.9	32.5°	7275.0	5470.2	3233.1	2621.2	2661.8	2636.7	2630.9	2617.4	2594.2	2592.3
8879.0	35°	7315.5	5086.1	2986.0	2524.7	2605.8	2545.9	2549.8	2517.0	2468.7	2445.6
9500.5	37.5°	7398.5	4777.3	2740.9	2478.4	2507.3	2505.4	2490.0	2434.0	2349.1	2275.7
10276.4	40°	7599.2	4686.6	2573.0	2457.2	2461.0	2484.2	2443.6	2335.6	2142.5	2022.9
11064.0	42.5°	7913.9	4839.0	2536.3	2405.0	2430.1	2453.3	2374.2	2123.2	1986.2	1914.8
11890.1	45°	8313.4	5105.4	2615.4	2329.8	2356.8	2397.3	2161.8	2042.2	1980.4	1982.3
12708.5	47.5°	8819.1	5385.3	2762.1	2264.1	2250.6	2273.8	2020.9	1947.6	1862.7	1883.9
13494.1	50°	9404.0	5669.0	2901.1	2175.3	2132.9	2057.6	1930.2	1860.7	1752.6	1702.4
14252.7	52.5°	10037.1	5943.1	2957.1	2067.3	2005.5	1918.6	1868.4	1783.5	1652.3	1569.3
14968.8	55°	10637.4	6192.1	2895.3	1937.9	1878.1	1810.5	1802.8	1750.7	1609.8	1494.0
15605.8	57.5°	11204.9	6400.6	2740.9	1806.7	1748.8	1708.2	1760.4	1735.3	1557.7	1409.1
16208.0	60°	11685.5	6543.4	2517.0	1673.5	1633.0	1611.7	1690.9	1683.1	1484.3	1318.3
16748.4	62.5°	12067.7	6599.4	2269.9	1546.1	1536.4	1497.8	1594.4	1594.4	1391.7	1229.5
17223.3	65°	12366.9	6545.3	2019.0	1420.6	1439.9	1382.0	1476.6	1465.0	1293.2	1150.4
17769.5	67.5°	12631.3	6367.8	1741.0	1297.1	1341.5	1268.1	1353.1	1326.1	1185.1	1071.3
18242.4	70°	12749.0	5954.7	1424.5	1173.6	1227.6	1156.2	1229.5	1179.4	1063.5	986.3
17723.2	72.5°	11803.2	4949.1	1121.5	1044.2	1090.6	1032.7	1096.4	1038.5	932.3	897.5
15304.6	75°	9764.9	3713.7	862.8	903.3	938.1	893.7	936.2	893.7	797.2	822.3
11305.2	77.5°	7091.6	2507.3	660.1	754.7	770.2	747.0	783.7	735.4	648.6	642.8
5634.3	80°	3526.5	1468.9	517.3	596.4	590.6	575.2	617.7	594.5	521.2	552.0
1521.0	82.5°	1021.1	629.2	376.4	418.9	407.3	411.1	442.0	453.6	679.4	673.6
472.9	85°	320.4	247.1	225.8	233.6	222.0	227.8	260.6	517.3	478.7	279.9
146.7	87.5°	83.0	84.9	56.0	59.8	61.8	73.3	83.0	314.6	150.6	98.4
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>
6585.9
6271.3
5595.7
4663.4
3939.6
3603.7
3362.4
3279.4
3254.3
3159.8
3001.5
2872.2
2750.5
2617.4
2468.7
2300.8
2038.3
1914.8
1992.0
1937.9
1716.0
1567.3
1494.0
1401.3
1312.5
1223.8
1142.7
1063.5
970.9
868.6
750.9
613.8
546.2
689.1
303.0
104.2
0.0

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