

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: P950455

Luminaire Tested: **GALN-SB4D-927-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-927-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

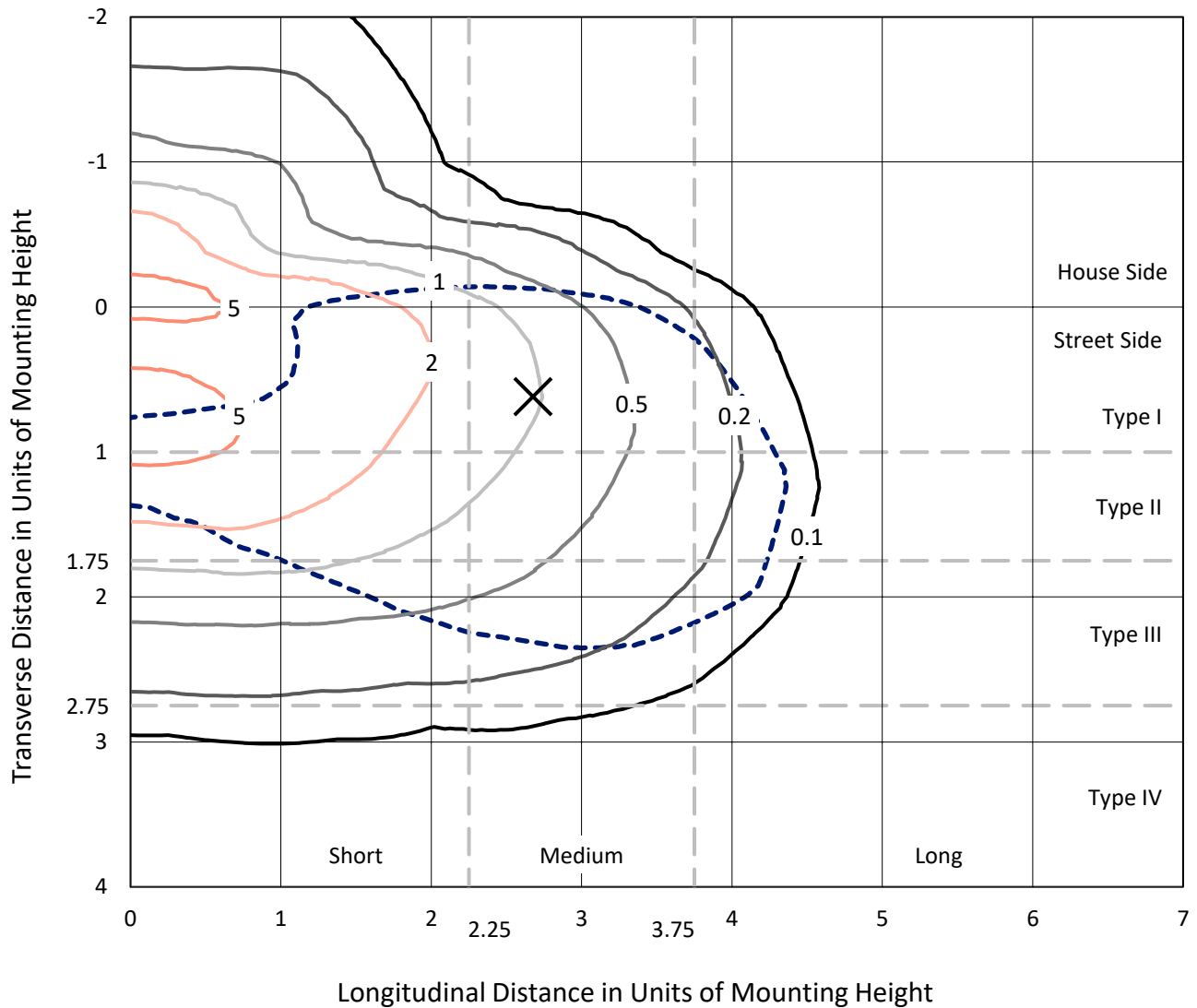
Lumens per Lamp: N/A  
Luminaire Lumens: 25485 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

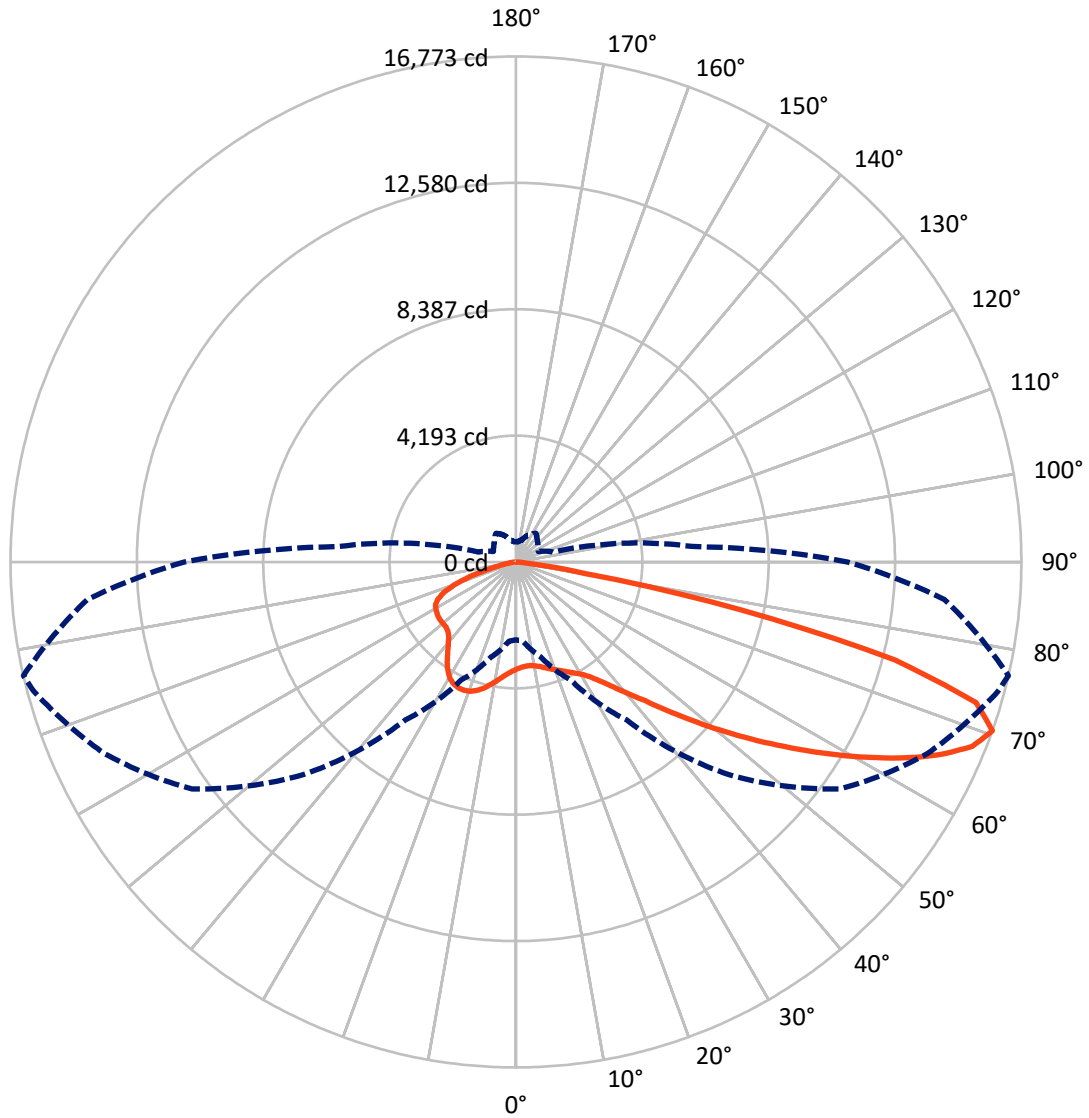
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5580.8	0.0	5580.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	19904.2	0.0	19904.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	25485.0	0.0	25485.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.1	1.3
10°-20°	978.6	3.8
20°-30°	1673.6	6.6
30°-40°	2691.3	10.6
40°-50°	4201.9	16.5
50°-60°	5612.7	22.0
60°-70°	5982.3	23.5
70°-80°	3682.7	14.5
80°-90°	322.7	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°	25485.0	100.0
0°-180°	25485.0	100.0



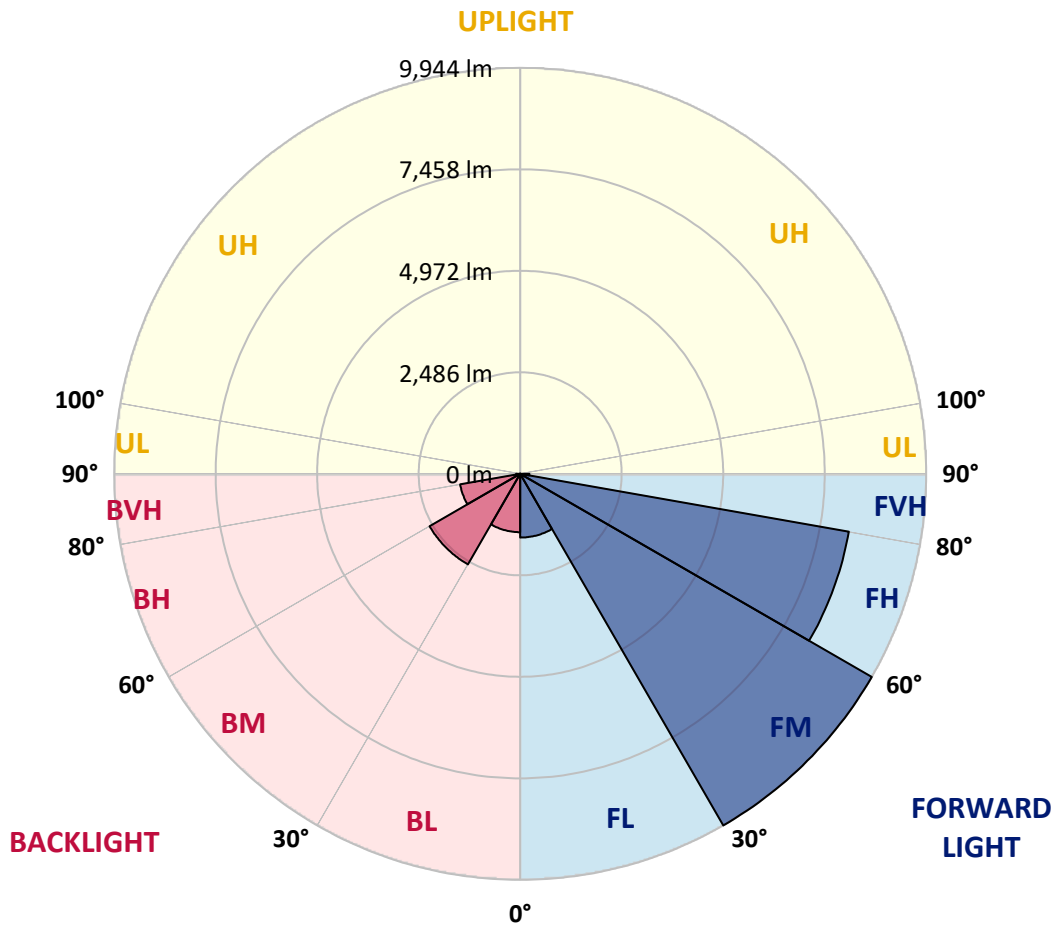
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1561.4	6.1			
FM (30°-60°)	9943.7	39.0			
FH (60°-80°)	8173.5	32.1			G4/12000
FVH (80°-90°)	225.7	0.9			G3/500
BL (0°-30°)	1430.0	5.6	B3/2500		
BM (30°-60°)	2562.3	10.1	B3/5000		
BH (60°-80°)	1491.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	97.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4
2.5°	3277.4	3276.1	3293.0	3298.3	3329.6	3351.8	3393.5	3437.9	3495.4	3501.9
5°	3088.1	3088.1	3107.7	3128.6	3169.0	3213.4	3277.4	3354.4	3453.6	3469.2
7.5°	2927.6	2938.0	2955.0	2995.5	3042.4	3106.4	3204.3	3313.9	3444.4	3469.2
10°	2798.4	2810.1	2831.0	2863.6	2934.1	3022.9	3150.8	3291.7	3466.6	3505.8
12.5°	2757.9	2769.7	2781.4	2806.2	2871.5	2975.9	3128.6	3302.2	3520.1	3559.3
15°	2851.9	2866.2	2857.1	2850.6	2884.5	2979.8	3139.0	3340.0	3586.7	3642.8
17.5°	3068.5	3073.8	3052.9	2991.5	2986.3	3037.2	3188.6	3392.2	3670.2	3731.6
20°	3418.3	3409.2	3366.1	3244.8	3175.6	3165.1	3273.5	3470.6	3756.4	3821.7
22.5°	3893.4	3883.0	3796.9	3605.0	3451.0	3349.2	3396.2	3572.4	3853.0	3926.1
25°	4486.0	4471.6	4345.0	4084.0	3845.1	3593.2	3563.2	3706.8	3971.8	4039.6
27.5°	5177.8	5166.0	5029.0	4684.4	4339.8	3927.4	3770.7	3864.7	4095.7	4172.8
30°	5921.7	5955.7	5712.9	5342.2	4906.3	4363.3	4050.1	4059.2	4256.3	4325.5
32.5°	6796.2	6855.0	6562.6	6092.7	5497.5	4837.1	4402.5	4330.7	4489.9	4547.3
35°	7662.9	7729.4	7486.7	6967.2	6282.0	5395.7	4770.5	4642.6	4800.6	4863.2
37.5°	8412.1	8500.8	8375.5	7923.9	7121.2	6069.2	5250.9	5009.4	5183.0	5261.3
40°	9003.3	9139.1	9129.9	8848.0	8110.6	6886.3	5860.4	5462.3	5658.1	5742.9
42.5°	9483.7	9601.1	9702.9	9688.6	9143.0	7814.3	6576.9	6051.0	6199.7	6297.6
45°	9815.2	9940.5	10159.7	10396.0	10136.3	8807.6	7397.9	6749.2	6885.0	7032.5
47.5°	10111.5	10253.7	10538.3	10912.9	10979.4	9804.7	8297.2	7562.4	7686.4	7839.1
50°	10137.6	10260.2	10701.4	11232.6	11578.5	10762.8	9263.1	8474.7	8590.9	8754.0
52.5°	9507.1	9700.3	10470.4	11223.5	11853.9	11564.2	10222.4	9423.6	9554.1	9749.9
55°	7379.7	7662.9	9793.0	10873.7	11756.0	12082.3	11134.7	10432.5	10599.6	10804.5
57.5°	6356.4	6480.4	7773.8	10236.8	11309.6	12216.8	11904.8	11451.9	11720.8	11945.3
60°	5712.9	5816.0	6580.9	9246.1	10722.3	12004.0	12500.0	12402.1	12866.8	13134.3
62.5°	5023.8	5121.6	5817.3	7720.3	9970.5	11650.3	12875.9	13279.2	14041.4	14333.8
65°	4339.8	4423.4	5090.3	6486.9	9015.1	11296.6	13070.4	14037.5	15128.7	15431.5
67.5°	3577.6	3646.8	4277.2	5472.7	7853.4	10812.4	13167.0	14634.0	16075.0	16334.7
70°	2581.7	2635.2	3286.5	4328.1	6395.5	9979.6	13127.8	15056.9	16565.7	16773.2
72.5°	1220.4	1268.7	2033.5	2810.1	4517.3	8358.6	12335.5	14721.5	16067.1	15964.0
75°	651.3	693.1	1168.2	1541.5	2385.9	5729.9	10094.5	12681.4	13491.9	12990.7
77.5°	441.2	473.8	723.1	925.4	1089.8	2720.1	6488.2	8780.1	8447.3	7619.8
80°	349.8	383.7	592.6	626.5	527.3	982.8	2680.9	4064.4	2919.8	2335.0
82.5°	268.9	306.7	498.6	454.2	287.1	403.3	780.5	1285.6	747.9	569.1
85°	164.5	204.9	391.6	289.8	161.8	184.0	265.0	357.6	228.4	190.6
87.5°	83.5	117.5	198.4	105.7	73.1	43.1	70.5	70.5	60.0	52.2
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°
3555.4	0°	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4
3537.1	2.5°	3568.4	3594.5	3638.9	3680.7	3713.3	3744.6	3776.0	3792.9	3798.2	3819.0
3556.7	5°	3610.2	3658.5	3744.6	3825.6	3876.5	3907.8	3930.0	3943.0	3945.6	3952.2
3610.2	7.5°	3687.2	3764.2	3884.3	3965.2	4003.1	4000.5	3991.3	3958.7	3945.6	3933.9
3688.5	10°	3795.5	3897.4	4044.8	4101.0	4077.5	4014.8	3933.9	3838.6	3794.2	3751.2
3795.5	12.5°	3930.0	4059.2	4204.1	4201.5	4085.3	3924.8	3736.8	3590.6	3498.0	3431.4
3927.4	15°	4093.1	4241.9	4352.9	4264.1	4009.6	3721.2	3445.8	3255.2	3171.7	3098.6
4060.5	17.5°	4261.5	4420.7	4471.6	4244.5	3819.0	3419.6	3107.7	2957.6	2875.4	2836.2
4204.1	20°	4426.0	4583.9	4542.1	4132.3	3529.3	3077.7	2799.7	2717.4	2700.5	2709.6
4343.7	22.5°	4599.6	4740.5	4556.5	3915.6	3159.9	2727.9	2575.2	2577.8	2615.6	2643.0
4489.9	25°	4777.1	4872.3	4518.6	3602.4	2763.1	2470.8	2432.9	2474.7	2549.1	2602.6
4654.4	27.5°	4948.0	4989.8	4436.4	3214.7	2422.5	2286.7	2293.3	2379.4	2491.6	2566.0
4854.1	30°	5141.2	5094.2	4278.5	2778.8	2186.2	2128.8	2183.6	2284.1	2396.4	2462.9
5106.0	32.5°	5359.2	5184.3	4027.9	2375.5	2019.2	2002.2	2092.3	2157.5	2207.1	2226.7
5440.1	35°	5630.7	5310.9	3706.8	2092.3	1869.1	1909.5	1995.7	1963.0	1943.5	1933.0
5889.1	37.5°	5983.1	5481.9	3330.9	1908.2	1747.7	1843.0	1878.2	1776.4	1699.4	1661.5
6433.4	40°	6407.3	5732.5	2969.4	1765.9	1670.7	1785.5	1724.2	1601.5	1503.6	1450.1
7045.5	42.5°	6878.5	5994.8	2665.2	1658.9	1627.6	1738.5	1610.6	1464.4	1306.5	1289.5
7775.1	45°	7373.1	6265.0	2457.7	1576.7	1606.7	1698.1	1545.4	1309.1	1196.9	1266.1
8507.4	47.5°	7867.8	6513.0	2332.4	1515.3	1596.3	1652.4	1487.9	1223.0	1143.4	1243.9
9291.8	50°	8418.6	6734.9	2276.3	1471.0	1584.5	1634.1	1401.8	1200.8	1087.2	1153.8
10103.6	52.5°	8965.5	6907.2	2234.5	1426.6	1567.6	1619.8	1360.0	1174.7	1019.4	1023.3
10920.7	55°	9511.1	7019.4	2188.8	1367.9	1529.7	1588.4	1356.1	1146.0	968.5	950.2
11784.7	57.5°	10093.2	7083.4	2132.7	1302.6	1464.4	1508.8	1352.2	1123.8	952.8	922.8
12668.4	60°	10685.7	7177.3	2059.6	1223.0	1377.0	1413.5	1343.1	1116.0	943.7	892.8
13501.1	62.5°	11217.0	7210.0	1972.2	1147.3	1264.7	1319.6	1323.5	1109.4	918.9	831.4
14192.8	65°	11565.5	7069.0	1819.5	1061.1	1143.4	1223.0	1285.6	1087.2	874.5	787.0
14534.8	67.5°	11551.1	6667.0	1580.6	950.2	1025.9	1116.0	1230.8	1049.4	821.0	732.2
14276.4	70°	11013.4	5873.4	1277.8	821.0	896.7	1001.1	1160.3	993.3	757.0	672.2
12694.5	72.5°	9445.8	4596.9	928.0	669.6	746.6	882.3	1069.0	925.4	691.8	618.7
9381.8	75°	6747.9	2909.3	629.1	514.3	580.8	747.9	955.4	845.8	631.7	621.3
4698.8	77.5°	3447.1	1390.0	416.4	375.9	404.6	590.0	802.7	755.7	640.9	512.9
1336.5	80°	1121.2	512.9	262.3	255.8	268.9	392.9	621.3	620.0	485.5	348.5
323.7	82.5°	357.6	220.6	171.0	164.5	157.9	246.7	433.3	490.8	327.6	220.6
116.2	85°	142.3	131.8	100.5	92.7	66.6	116.2	227.1	326.3	244.1	159.2
30.0	87.5°	52.2	52.2	27.4	19.6	14.4	39.2	61.3	97.9	139.7	82.2
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>
3555.4
3830.8
3962.6
3936.5
3738.1
3415.7
3090.7
2848.0
2705.7
2649.6
2616.9
2584.3
2478.6
2237.1
1943.5
1670.7
1454.0
1306.5
1302.6
1290.9
1203.4
1050.7
963.2
926.7
896.7
831.4
787.0
736.1
680.0
614.8
586.0
456.8
308.0
219.3
163.2
80.9
0.0

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