

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: P949909

Luminaire Tested: **GALN-SB4C-735-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949909  
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-SB4C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

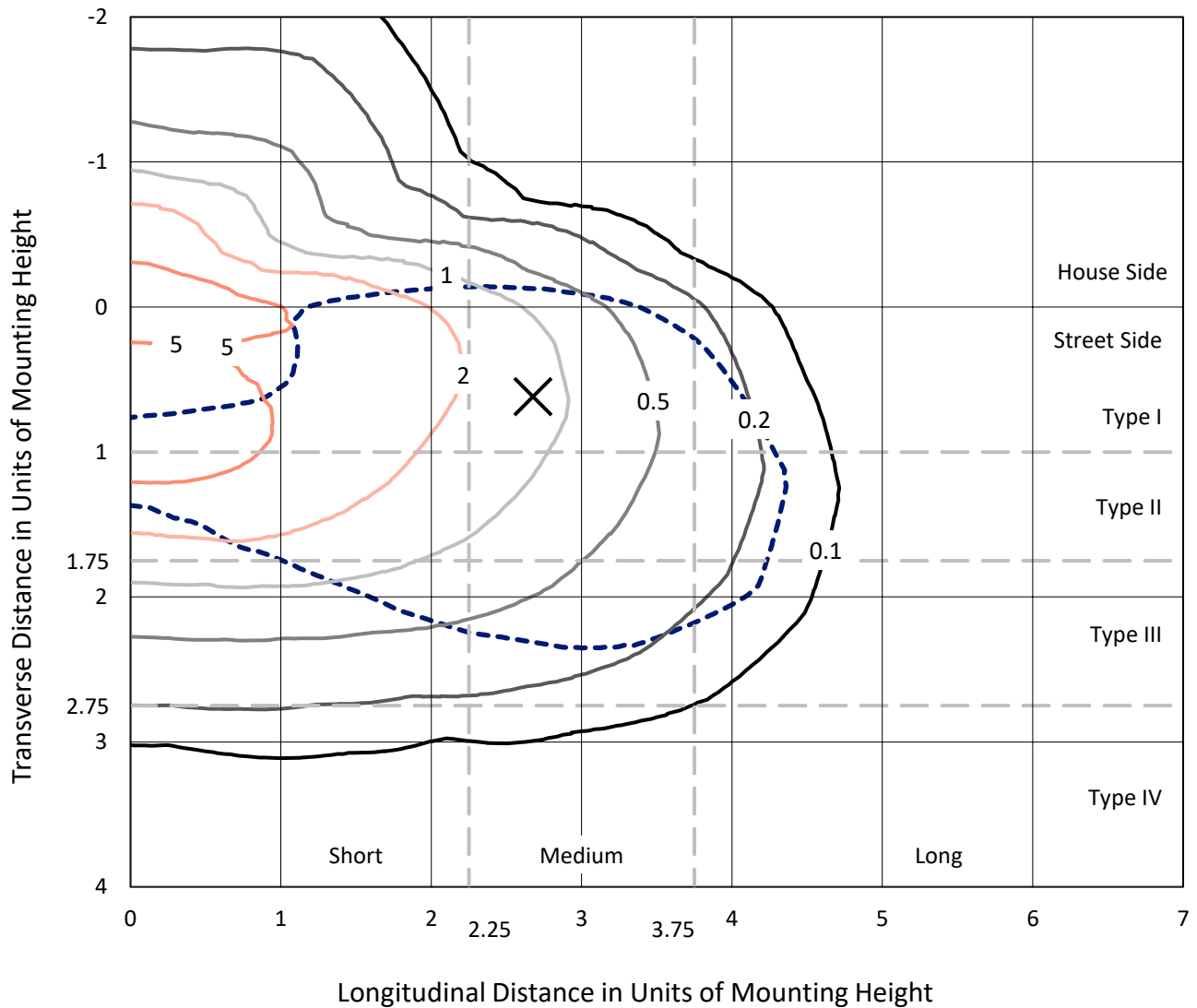
Lumens per Lamp: N/A  
Luminaire Lumens: 30813 lumens  
Efficiency: N/A  
Efficacy: 153.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

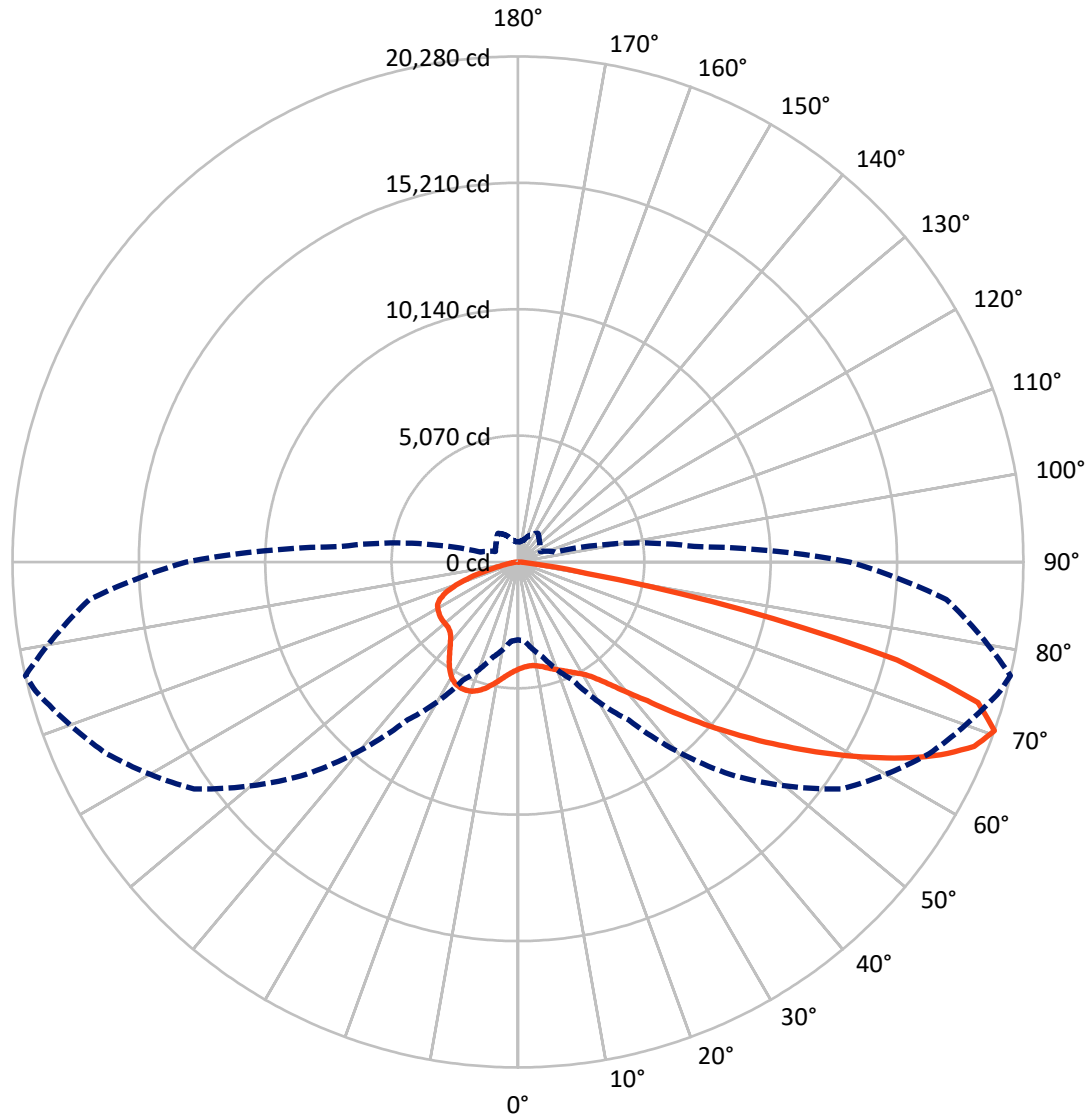
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	6747.6	0.0	6747.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	24065.4	0.0	24065.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	30813.0	0.0	30813.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.0	1.3
10°-20°	1183.2	3.8
20°-30°	2023.5	6.6
30°-40°	3254.0	10.6
40°-50°	5080.4	16.5
50°-60°	6786.2	22.0
60°-70°	7233.0	23.5
70°-80°	4452.6	14.5
80°-90°	390.2	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°	30813.0	100.0
0°-180°	30813.0	100.0



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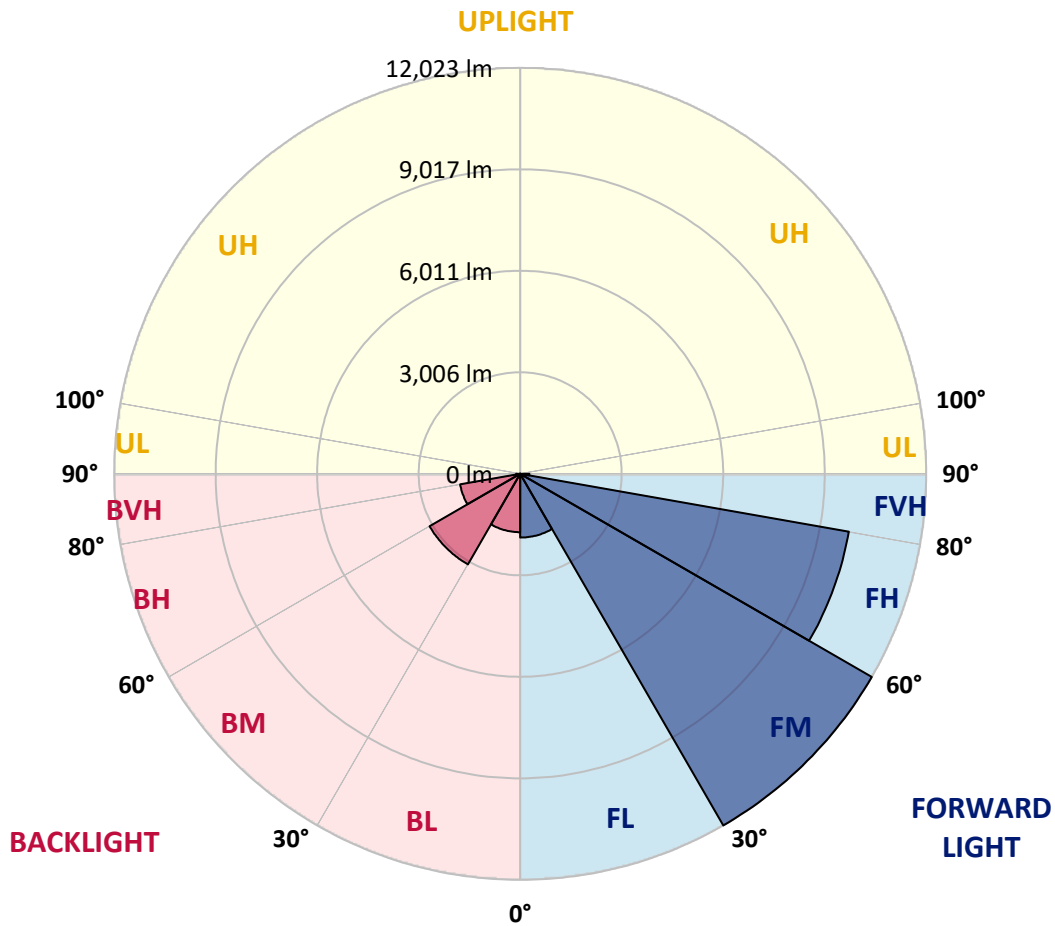
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1887.8	6.1			
FM (30°-60°)	12022.6	39.0			
FH (60°-80°)	9882.2	32.1			G4/12000
FVH (80°-90°)	272.8	0.9			G3/500
BL (0°-30°)	1728.9	5.6	B3/2500		
BM (30°-60°)	3098.0	10.1	B3/5000		
BH (60°-80°)	1803.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	117.3	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7
2.5°	3962.6	3961.0	3981.5	3987.8	4025.7	4052.5	4103.0	4156.7	4226.1	4234.0
5°	3733.7	3733.7	3757.4	3782.7	3831.6	3885.2	3962.6	4055.7	4175.6	4194.5
7.5°	3539.6	3552.3	3572.8	3621.7	3678.5	3755.8	3874.2	4006.7	4164.6	4194.5
10°	3383.4	3397.6	3422.9	3462.3	3547.5	3654.8	3809.5	3979.9	4191.4	4238.7
12.5°	3334.5	3348.7	3362.9	3392.9	3471.8	3598.0	3782.7	3992.5	4256.1	4303.4
15°	3448.1	3465.5	3454.4	3446.5	3487.6	3602.8	3795.3	4038.3	4336.6	4404.4
17.5°	3710.1	3716.4	3691.1	3617.0	3610.7	3672.2	3855.3	4101.4	4437.6	4511.7
20°	4133.0	4121.9	4069.9	3923.1	3839.5	3826.8	3957.8	4196.1	4541.7	4620.6
22.5°	4707.4	4694.8	4590.6	4358.7	4172.4	4049.4	4106.2	4319.2	4658.5	4746.9
25°	5423.9	5406.5	5253.4	4937.8	4649.0	4344.5	4308.2	4481.8	4802.1	4884.2
27.5°	6260.3	6246.0	6080.3	5663.7	5247.1	4748.4	4559.1	4672.7	4952.0	5045.1
30°	7159.8	7200.8	6907.3	6459.1	5932.0	5275.5	4896.8	4907.8	5146.1	5229.8
32.5°	8217.1	8288.1	7934.6	7366.5	6646.9	5848.4	5322.9	5236.1	5428.6	5498.0
35°	9264.9	9345.4	9051.9	8423.8	7595.3	6523.8	5767.9	5613.2	5804.2	5879.9
37.5°	10170.7	10278.0	10126.6	9580.5	8610.0	7338.1	6348.6	6056.7	6266.6	6361.2
40°	10885.6	11049.7	11038.7	10697.8	9806.2	8326.0	7085.6	6604.3	6841.0	6943.6
42.5°	11466.3	11608.4	11731.5	11714.1	11054.5	9448.0	7952.0	7316.0	7495.9	7614.2
45°	11867.2	12018.7	12283.8	12569.4	12255.4	10648.9	8944.6	8160.3	8324.4	8502.7
47.5°	12225.4	12397.4	12741.4	13194.3	13274.8	11854.5	10031.9	9143.4	9293.3	9478.0
50°	12257.0	12405.3	12938.7	13581.0	13999.2	13012.9	11199.6	10246.5	10386.9	10584.2
52.5°	11494.7	11728.3	12659.4	13569.9	14332.1	13981.8	12359.5	11393.7	11551.6	11788.3
55°	8922.5	9264.9	11840.3	13147.0	14213.8	14608.3	13462.6	12613.6	12815.6	13063.4
57.5°	7685.3	7835.2	9399.1	12376.9	13674.1	14770.8	14393.7	13846.1	14171.2	14442.6
60°	6907.3	7031.9	7956.7	11179.1	12963.9	14513.6	15113.3	14994.9	15556.7	15880.2
62.5°	6074.0	6192.4	7033.5	9334.4	12055.0	14086.0	15567.8	16055.4	16977.0	17330.5
65°	5247.1	5348.1	6154.5	7843.1	10899.8	13658.3	15802.9	16972.3	18291.5	18657.7
67.5°	4325.5	4409.2	5171.4	6616.9	9495.3	13072.8	15919.7	17693.5	19435.7	19749.7
70°	3121.4	3186.1	3973.6	5232.9	7732.6	12066.0	15872.3	18204.8	20029.0	20279.9
72.5°	1475.5	1533.9	2458.7	3397.6	5461.7	10106.0	14914.5	17799.2	19426.2	19301.5
75°	787.5	838.0	1412.4	1863.7	2884.7	6927.8	12204.9	15332.6	16312.6	15706.6
77.5°	533.4	572.8	874.3	1118.9	1317.7	3288.7	7844.6	10615.8	10213.3	9212.8
80°	422.9	464.0	716.4	757.5	637.5	1188.3	3241.4	4914.1	3530.2	2823.2
82.5°	325.1	370.8	602.8	549.2	347.2	487.6	943.7	1554.4	904.2	688.0
85°	198.8	247.8	473.4	350.3	195.7	222.5	320.4	432.4	276.2	230.4
87.5°	101.0	142.0	239.9	127.8	88.4	52.1	85.2	85.2	72.6	63.1
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°
4298.7	0°	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7	4298.7
4276.6	2.5°	4314.5	4346.0	4399.7	4450.2	4489.6	4527.5	4565.4	4585.9	4592.2	4617.5
4300.3	5°	4365.0	4423.4	4527.5	4625.4	4686.9	4724.8	4751.6	4767.4	4770.5	4778.4
4365.0	7.5°	4458.1	4551.2	4696.4	4794.2	4840.0	4836.8	4825.8	4786.3	4770.5	4756.3
4459.7	10°	4589.1	4712.2	4890.5	4958.3	4929.9	4854.2	4756.3	4641.1	4587.5	4535.4
4589.1	12.5°	4751.6	4907.8	5083.0	5079.8	4939.4	4745.3	4518.0	4341.3	4229.3	4148.8
4748.4	15°	4948.9	5128.8	5262.9	5155.6	4847.9	4499.1	4166.1	3935.7	3834.7	3746.4
4909.4	17.5°	5152.4	5345.0	5406.5	5131.9	4617.5	4134.6	3757.4	3575.9	3476.5	3429.2
5083.0	20°	5351.3	5542.2	5491.7	4996.2	4267.1	3721.1	3385.0	3285.6	3265.1	3276.1
5251.9	22.5°	5561.2	5731.6	5509.1	4734.2	3820.5	3298.2	3113.6	3116.7	3162.5	3195.6
5428.6	25°	5775.8	5891.0	5463.3	4355.5	3340.8	2987.3	2941.5	2992.0	3082.0	3146.7
5627.4	27.5°	5982.5	6033.0	5363.9	3886.8	2928.9	2764.8	2772.7	2876.8	3012.6	3102.5
5868.9	30°	6216.1	6159.3	5173.0	3359.7	2643.3	2573.9	2640.1	2761.6	2897.4	2977.8
6173.5	32.5°	6479.6	6268.1	4870.0	2872.1	2441.3	2420.8	2529.7	2608.6	2668.5	2692.2
6577.4	35°	6807.8	6421.2	4481.8	2529.7	2259.8	2308.7	2412.9	2373.4	2349.8	2337.1
7120.3	37.5°	7233.9	6627.9	4027.3	2307.2	2113.1	2228.3	2270.9	2147.8	2054.7	2008.9
7778.4	40°	7746.8	6930.9	3590.1	2135.1	2019.9	2158.8	2084.6	1936.3	1818.0	1753.2
8518.5	42.5°	8316.5	7248.1	3222.4	2005.7	1967.9	2102.0	1947.4	1770.6	1579.7	1559.1
9400.6	45°	8914.6	7574.8	2971.5	1906.3	1942.6	2053.1	1868.4	1582.8	1447.1	1530.7
10285.9	47.5°	9512.7	7874.6	2820.0	1832.2	1930.0	1997.9	1799.0	1478.7	1382.4	1503.9
11234.4	50°	10178.6	8142.9	2752.2	1778.5	1915.8	1975.8	1694.9	1451.8	1314.5	1395.0
12215.9	52.5°	10839.8	8351.2	2701.7	1724.8	1895.3	1958.4	1644.4	1420.3	1232.5	1237.2
13203.8	55°	11499.5	8486.9	2646.4	1653.8	1849.5	1920.5	1639.6	1385.6	1170.9	1148.8
14248.5	57.5°	12203.3	8564.2	2578.6	1574.9	1770.6	1824.3	1634.9	1358.7	1152.0	1115.7
15316.9	60°	12919.8	8677.9	2490.2	1478.7	1664.9	1709.1	1623.8	1349.3	1141.0	1079.4
16323.7	62.5°	13562.0	8717.3	2384.5	1387.1	1529.2	1595.4	1600.2	1341.4	1111.0	1005.2
17160.1	65°	13983.4	8546.9	2199.8	1283.0	1382.4	1478.7	1554.4	1314.5	1057.3	951.6
17573.5	67.5°	13966.0	8060.8	1911.1	1148.8	1240.4	1349.3	1488.1	1268.8	992.6	885.3
17261.1	70°	13315.9	7101.4	1544.9	992.6	1084.1	1210.4	1402.9	1200.9	915.3	812.7
15348.4	72.5°	11420.6	5558.0	1122.0	809.6	902.7	1066.8	1292.4	1118.9	836.4	748.0
11343.3	75°	8158.7	3517.5	760.6	621.8	702.2	904.2	1155.2	1022.6	763.8	751.2
5681.1	77.5°	4167.7	1680.7	503.4	454.5	489.2	713.3	970.5	913.7	774.8	620.2
1616.0	80°	1355.6	620.2	317.2	309.3	325.1	475.0	751.2	749.6	587.0	421.3
391.4	82.5°	432.4	266.7	206.7	198.8	190.9	298.3	523.9	593.4	396.1	266.7
140.4	85°	172.0	159.4	121.5	112.0	80.5	140.4	274.6	394.5	295.1	192.5
36.3	87.5°	63.1	63.1	33.1	23.7	17.4	47.3	74.2	118.4	168.9	99.4
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

180°  
4298.7  
4631.7  
4791.1  
4759.5  
4519.6  
4129.8  
3736.9  
3443.4  
3271.4  
3203.5  
3164.1  
3124.6  
2996.8  
2704.8  
2349.8  
2019.9  
1758.0  
1579.7  
1574.9  
1560.7  
1455.0  
1270.4  
1164.6  
1120.4  
1084.1  
1005.2  
951.6  
890.0  
822.2  
743.3  
708.6  
552.3  
372.4  
265.1  
197.3  
97.8  
0.0

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