

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: P950014

Luminaire Tested: **GALN-SB4C-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950014  
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-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

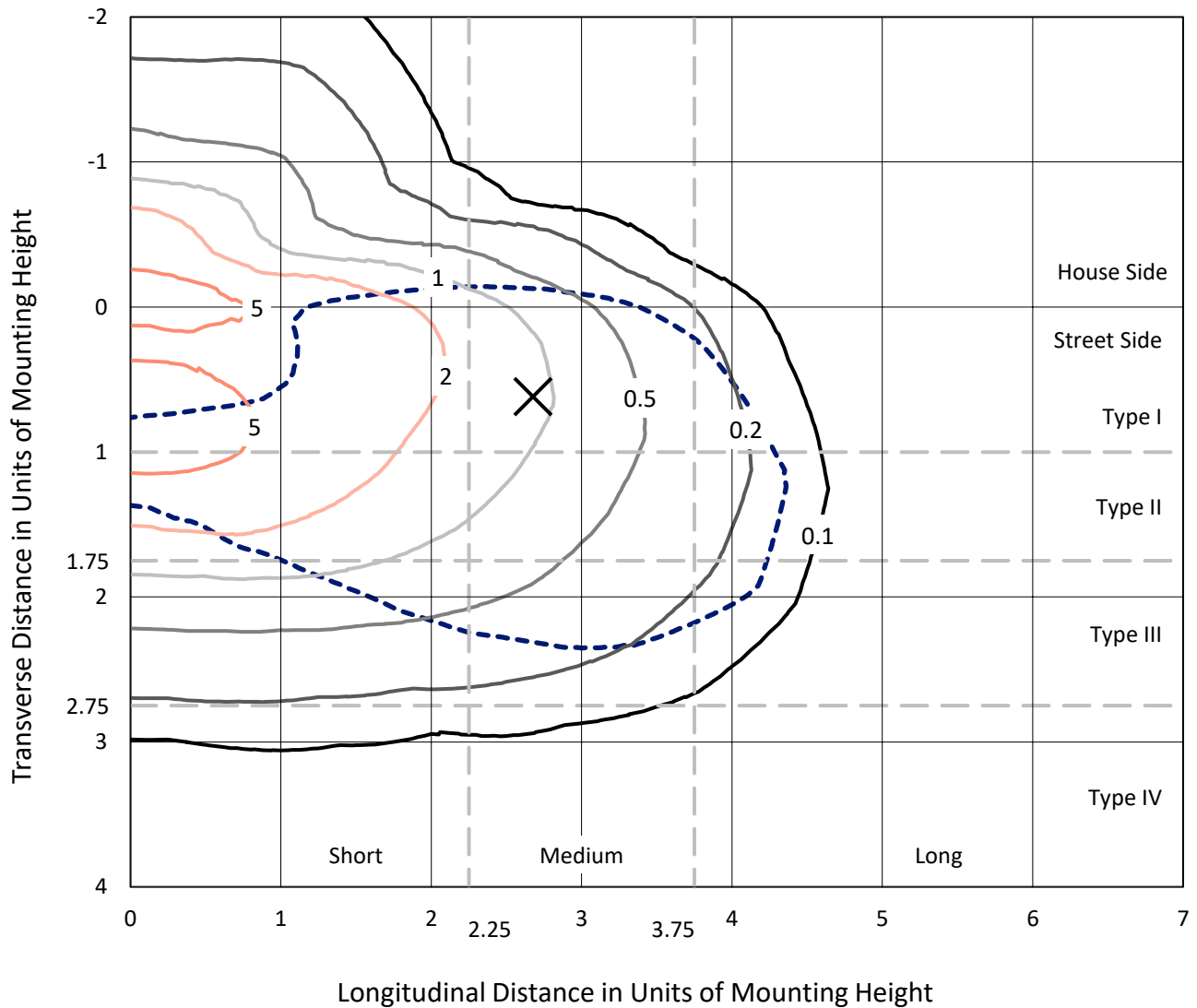
Lumens per Lamp: N/A  
Luminaire Lumens: 27687 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

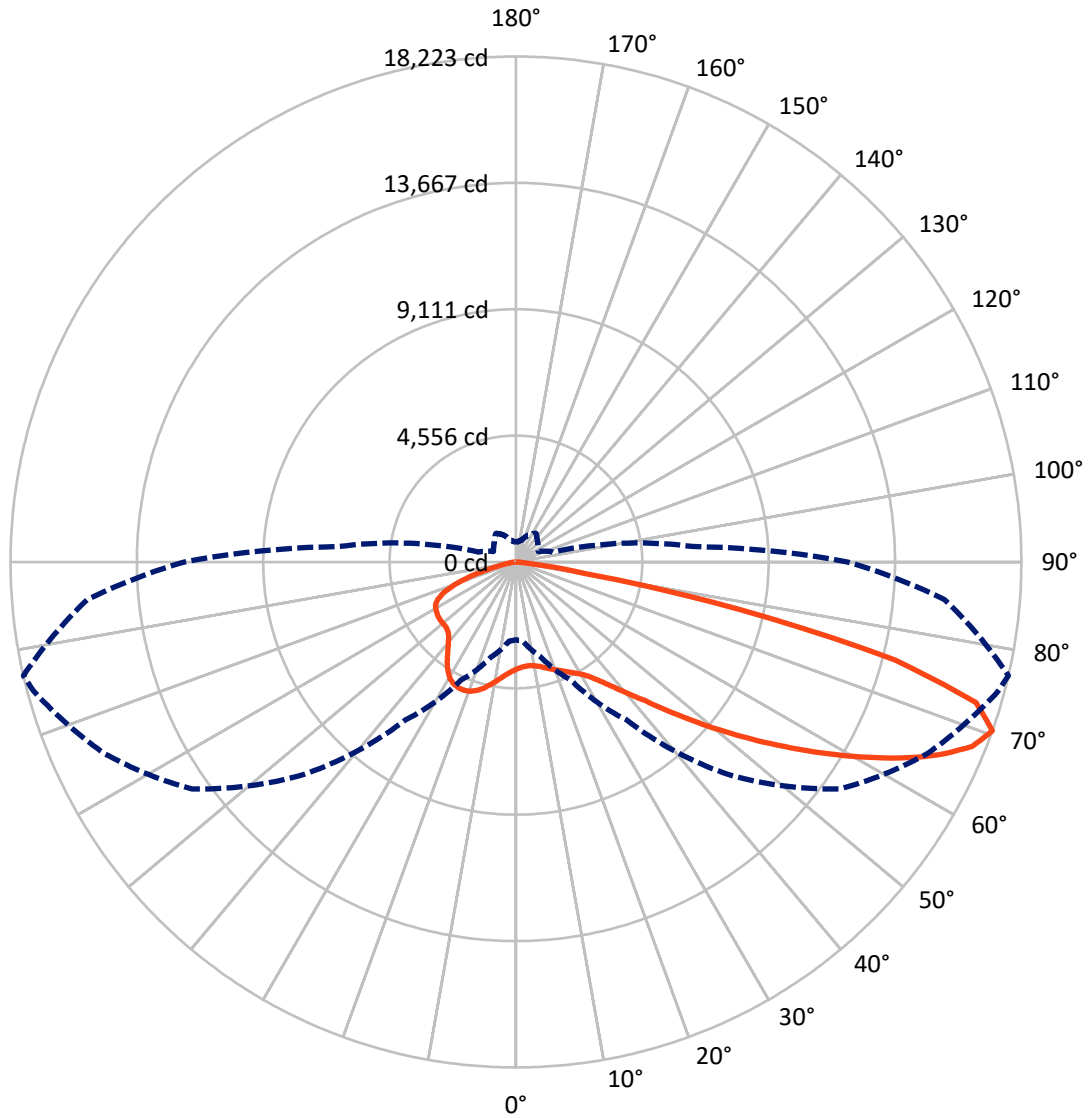
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	6063.0	0.0	6063.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	21624.0	0.0	21624.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	27687.0	0.0	27687.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.4	1.3
10°-20°	1063.2	3.8
20°-30°	1818.2	6.6
30°-40°	2923.9	10.6
40°-50°	4565.0	16.5
50°-60°	6097.7	22.0
60°-70°	6499.2	23.5
70°-80°	4000.9	14.5
80°-90°	350.6	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°	27687.0	100.0
0°-180°	27687.0	100.0



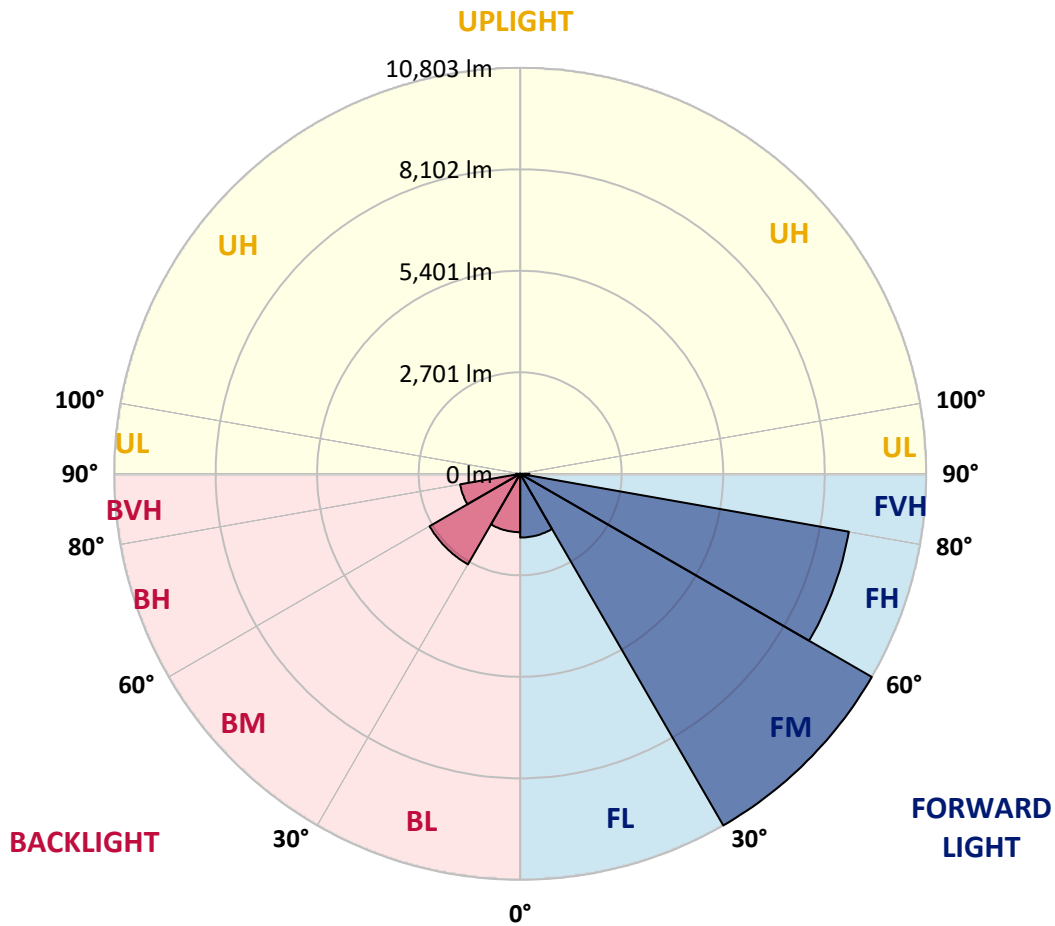
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1696.3	6.1			
FM (30°-60°)	10802.9	39.0			
FH (60°-80°)	8879.7	32.1			G4/12000
FVH (80°-90°)	245.2	0.9			G3/500
BL (0°-30°)	1553.5	5.6	B3/2500		
BM (30°-60°)	2783.7	10.1	B3/5000		
BH (60°-80°)	1620.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	105.4	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°	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6
2.5°	3560.6	3559.1	3577.6	3583.2	3617.3	3641.4	3686.8	3735.0	3797.4	3804.5
5°	3355.0	3355.0	3376.2	3398.9	3442.9	3491.1	3560.6	3644.2	3752.0	3769.0
7.5°	3180.5	3191.9	3210.3	3254.3	3305.3	3374.8	3481.2	3600.3	3742.1	3769.0
10°	3040.2	3052.9	3075.6	3111.1	3187.6	3284.1	3423.0	3576.2	3766.2	3808.7
12.5°	2996.2	3009.0	3021.7	3048.7	3119.6	3233.0	3398.9	3587.5	3824.3	3866.8
15°	3098.3	3113.9	3104.0	3096.9	3133.7	3237.3	3410.3	3628.6	3896.6	3957.6
17.5°	3333.7	3339.4	3316.7	3250.0	3244.3	3299.6	3464.1	3685.3	3987.4	4054.0
20°	3713.7	3703.8	3657.0	3525.1	3450.0	3438.6	3556.3	3770.4	4081.0	4151.9
22.5°	4229.8	4218.5	4124.9	3916.5	3749.2	3638.5	3689.6	3881.0	4185.9	4265.3
25°	4873.6	4858.0	4720.5	4436.9	4177.4	3903.7	3871.1	4027.1	4314.9	4388.7
27.5°	5625.1	5612.4	5463.5	5089.1	4714.8	4266.7	4096.6	4198.7	4449.6	4533.3
30°	6433.4	6470.3	6206.5	5803.8	5330.2	4740.3	4400.0	4409.9	4624.0	4699.2
32.5°	7383.4	7447.3	7129.6	6619.2	5972.5	5255.0	4782.9	4704.9	4877.9	4940.3
35°	8325.0	8397.3	8133.6	7569.2	6824.8	5861.9	5182.7	5043.8	5215.3	5283.4
37.5°	9138.9	9235.3	9099.2	8608.6	7736.5	6593.6	5704.6	5442.2	5630.8	5715.9
40°	9781.3	9928.7	9918.8	9612.5	8811.4	7481.3	6366.7	5934.3	6147.0	6239.1
42.5°	10303.1	10430.7	10541.3	10525.7	9933.0	8489.5	7145.2	6573.8	6735.4	6841.8
45°	10663.2	10799.4	11037.6	11294.2	11012.1	9568.6	8037.1	7332.4	7479.9	7640.1
47.5°	10985.1	11139.7	11448.8	11855.8	11928.1	10651.9	9014.1	8215.8	8350.5	8516.4
50°	11013.5	11146.8	11626.1	12203.2	12578.9	11692.7	10063.4	9207.0	9333.2	9510.4
52.5°	10328.6	10538.5	11375.1	12193.2	12878.1	12563.3	11105.7	10237.8	10379.6	10592.3
55°	8017.3	8325.0	10639.1	11813.2	12771.8	13126.3	12096.8	11333.9	11515.5	11738.1
57.5°	6905.6	7040.3	8445.5	11121.3	12286.8	13272.3	12933.4	12441.4	12733.5	12977.4
60°	6206.5	6318.5	7149.5	10045.0	11648.7	13041.2	13580.0	13473.7	13978.5	14269.2
62.5°	5457.8	5564.2	6320.0	8387.4	10832.0	12656.9	13988.4	14426.6	15254.7	15572.3
65°	4714.8	4805.5	5530.1	7047.4	9794.0	12272.7	14199.7	15250.4	16435.9	16764.8
67.5°	3886.7	3961.8	4646.7	5945.6	8532.0	11746.6	14304.6	15898.4	17463.9	17746.1
70°	2804.8	2862.9	3570.5	4702.0	6948.1	10841.9	14262.1	16357.9	17997.1	18222.5
72.5°	1325.8	1378.3	2209.2	3052.9	4907.6	9080.8	13401.4	15993.4	17455.4	17343.4
75°	707.6	752.9	1269.1	1674.6	2592.1	6225.0	10966.7	13777.1	14657.7	14113.2
77.5°	479.3	514.7	785.6	1005.4	1184.0	2955.1	7048.8	9538.8	9177.2	8278.2
80°	380.0	416.9	643.8	680.6	572.9	1067.7	2912.5	4415.6	3172.0	2536.8
82.5°	292.1	333.2	541.7	493.5	312.0	438.2	848.0	1396.7	812.5	618.2
85°	178.7	222.6	425.4	314.8	175.8	199.9	287.9	388.5	248.1	207.0
87.5°	90.8	127.6	215.5	114.9	79.4	46.8	76.6	76.6	65.2	56.7
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°
3862.6	0°	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6	3862.6
3842.7	2.5°	3876.8	3905.1	3953.3	3998.7	4034.2	4068.2	4102.2	4120.7	4126.3	4149.0
3864.0	5°	3922.1	3974.6	4068.2	4156.1	4211.4	4245.4	4269.6	4283.7	4286.6	4293.7
3922.1	7.5°	4005.8	4089.5	4219.9	4307.8	4349.0	4346.1	4336.2	4300.7	4286.6	4273.8
4007.2	10°	4123.5	4234.1	4394.3	4455.3	4429.8	4361.7	4273.8	4170.3	4122.1	4075.3
4123.5	12.5°	4269.6	4409.9	4567.3	4564.5	4438.3	4263.9	4059.7	3900.9	3800.2	3727.9
4266.7	15°	4446.8	4608.4	4729.0	4632.6	4356.0	4042.7	3743.5	3536.5	3445.7	3366.3
4411.3	17.5°	4629.7	4802.7	4858.0	4611.3	4149.0	3715.1	3376.2	3213.2	3123.8	3081.3
4567.3	20°	4808.4	4980.0	4934.6	4489.3	3834.2	3343.6	3041.6	2952.2	2933.8	2943.7
4719.1	22.5°	4997.0	5150.1	4950.2	4254.0	3432.9	2963.6	2797.7	2800.5	2841.6	2871.4
4877.9	25°	5189.8	5293.3	4909.1	3913.6	3001.9	2684.2	2643.1	2688.5	2769.3	2827.5
5056.5	27.5°	5375.6	5421.0	4819.7	3492.5	2631.8	2484.3	2491.4	2585.0	2706.9	2787.8
5273.5	30°	5585.4	5534.4	4648.2	3018.9	2375.1	2312.7	2372.3	2481.5	2603.4	2675.7
5547.2	32.5°	5822.2	5632.2	4375.9	2580.7	2193.6	2175.2	2273.0	2343.9	2397.8	2419.1
5910.2	35°	6117.2	5769.8	4027.1	2273.0	2030.6	2074.5	2168.1	2132.6	2111.4	2100.0
6397.9	37.5°	6500.0	5955.5	3618.7	2073.1	1898.7	2002.2	2040.5	1929.9	1846.2	1805.1
6989.2	40°	6960.9	6227.8	3225.9	1918.5	1815.0	1939.8	1873.2	1739.9	1633.5	1575.4
7654.3	42.5°	7472.8	6512.8	2895.5	1802.3	1768.2	1888.8	1749.8	1591.0	1419.4	1401.0
8446.9	45°	8010.2	6806.3	2670.1	1712.9	1745.5	1844.8	1678.9	1422.2	1300.3	1375.4
9242.4	47.5°	8547.6	7075.7	2533.9	1646.3	1734.2	1795.2	1616.5	1328.7	1242.2	1351.3
10094.6	50°	9146.0	7316.8	2473.0	1598.1	1721.4	1775.3	1522.9	1304.5	1181.2	1253.5
10976.6	52.5°	9740.1	7504.0	2427.6	1549.9	1703.0	1759.7	1477.5	1276.2	1107.4	1111.7
11864.3	55°	10332.9	7625.9	2378.0	1486.0	1661.9	1725.7	1473.3	1245.0	1052.1	1032.3
12803.0	57.5°	10965.3	7695.4	2317.0	1415.1	1591.0	1639.2	1469.0	1220.9	1035.1	1002.5
13763.0	60°	11609.0	7797.5	2237.6	1328.7	1496.0	1535.7	1459.1	1212.4	1025.2	969.9
14667.6	62.5°	12186.2	7832.9	2142.6	1246.4	1374.0	1433.6	1437.8	1205.3	998.3	903.3
15419.2	65°	12564.8	7679.8	1976.7	1152.8	1242.2	1328.7	1396.7	1181.2	950.0	855.0
15790.7	67.5°	12549.2	7243.1	1717.2	1032.3	1114.5	1212.4	1337.2	1140.1	891.9	795.5
15509.9	70°	11965.0	6380.9	1388.2	891.9	974.2	1087.6	1260.6	1079.1	822.4	730.3
13791.3	72.5°	10262.0	4994.1	1008.2	727.4	811.1	958.6	1161.3	1005.4	751.5	672.1
10192.5	75°	7331.0	3160.7	683.5	558.7	631.0	812.5	1038.0	918.9	686.3	675.0
5104.7	77.5°	3744.9	1510.2	452.3	408.4	439.6	640.9	872.1	821.0	696.2	557.3
1452.0	80°	1218.0	557.3	285.0	277.9	292.1	426.8	675.0	673.5	527.5	378.6
351.7	82.5°	388.5	239.6	185.8	178.7	171.6	268.0	470.8	533.2	355.9	239.6
126.2	85°	154.6	143.2	109.2	100.7	72.3	126.2	246.7	354.5	265.2	173.0
32.6	87.5°	56.7	56.7	29.8	21.3	15.6	42.5	66.6	106.3	151.7	89.3
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>
3862.6
4161.8
4305.0
4276.6
4061.1
3710.9
3357.8
3094.0
2939.5
2878.5
2843.1
2807.6
2692.8
2430.4
2111.4
1815.0
1579.6
1419.4
1415.1
1402.4
1307.4
1141.5
1046.5
1006.8
974.2
903.3
855.0
799.7
738.8
667.9
636.7
496.3
334.6
238.2
177.2
87.9
0.0

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