

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: P952135

Luminaire Tested: **GALN-SB6A-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952135  
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-SB6A-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

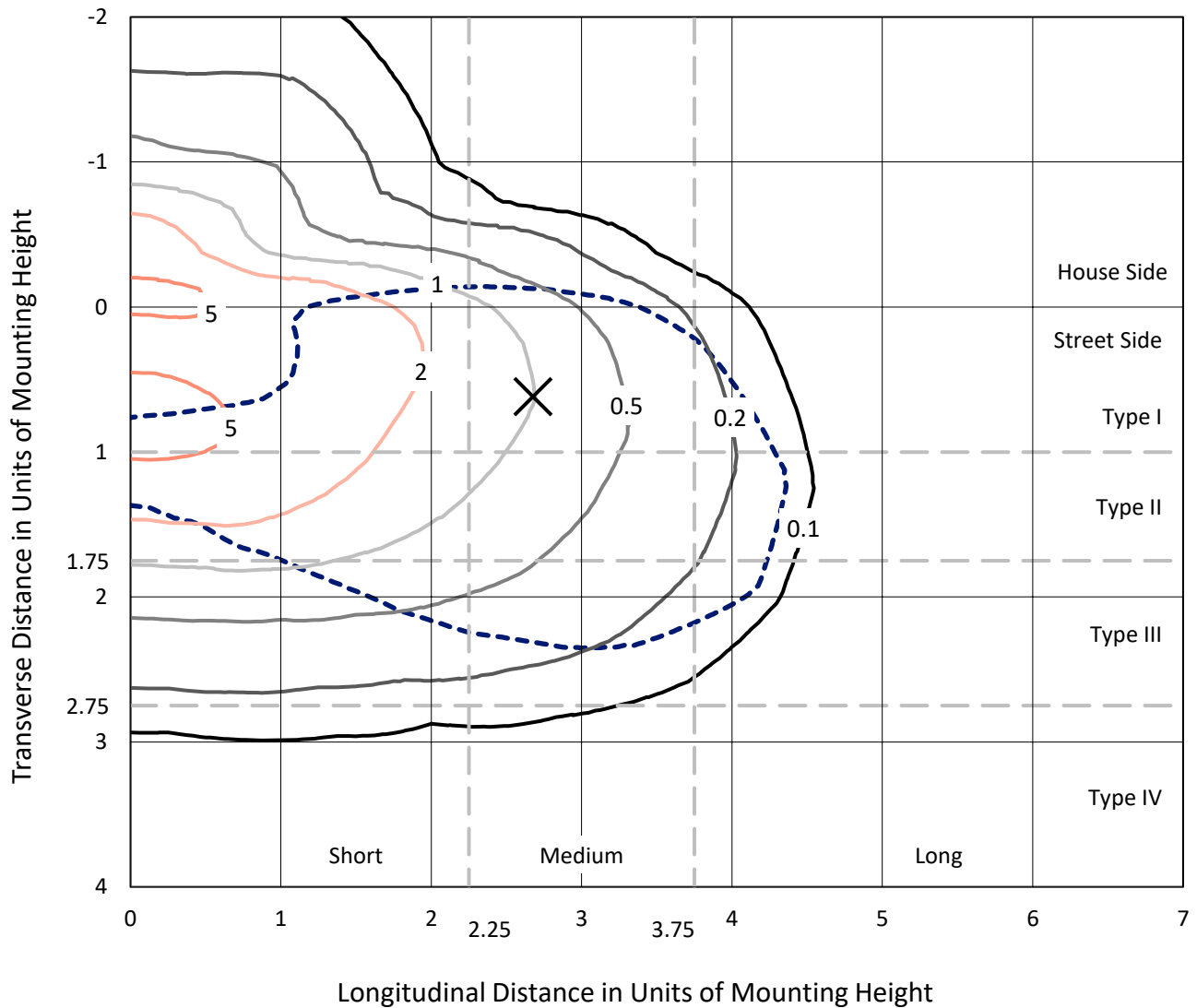
Lumens per Lamp: N/A  
Luminaire Lumens: 24283 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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

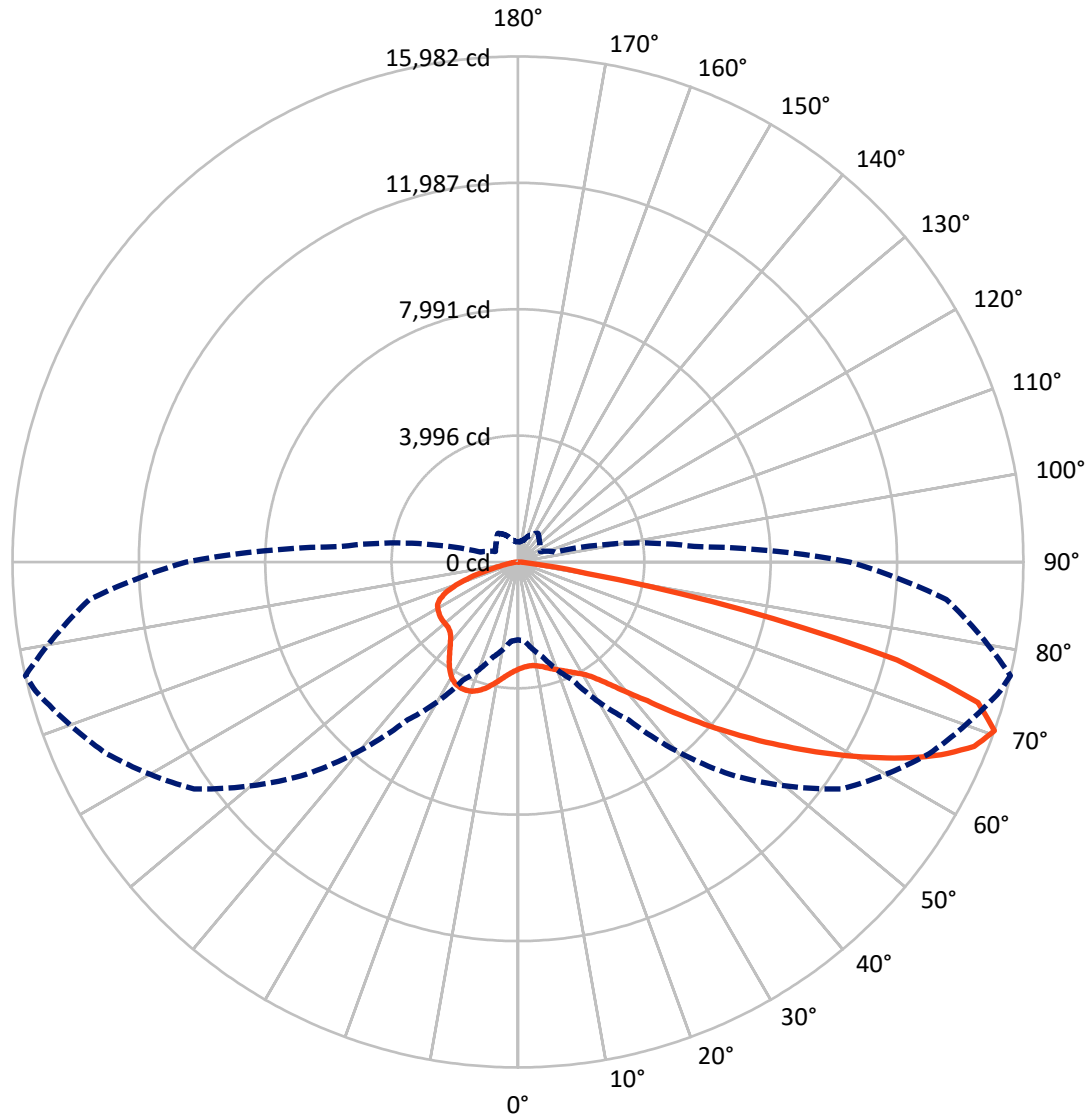
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	5317.6	0.0	5317.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	18965.4	0.0	18965.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	24283.0	0.0	24283.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.1	1.3
10°-20°	932.5	3.8
20°-30°	1594.7	6.6
30°-40°	2564.4	10.6
40°-50°	4003.7	16.5
50°-60°	5348.0	22.0
60°-70°	5700.1	23.5
70°-80°	3509.0	14.5
80°-90°	307.5	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°	24283.0	100.0
0°-180°	24283.0	100.0



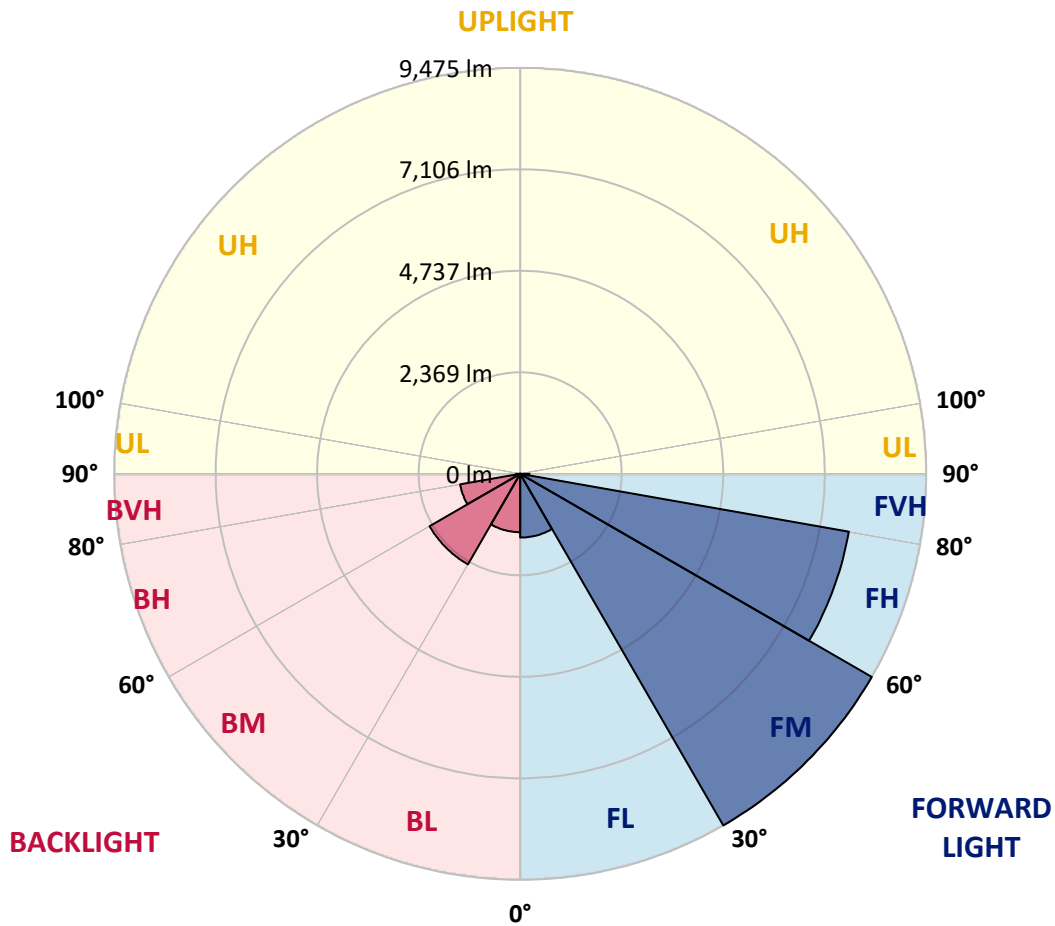
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.7	6.1			
FM (30°-60°)	9474.7	39.0			
FH (60°-80°)	7788.0	32.1			G4/12000
FVH (80°-90°)	215.0	0.9			G2/225
BL (0°-30°)	1362.5	5.6	B3/2500		
BM (30°-60°)	2441.4	10.1	B2/2500		
BH (60°-80°)	1421.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	92.5	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°	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7
2.5°	3122.8	3121.6	3137.7	3142.7	3172.5	3193.7	3233.5	3275.8	3330.5	3336.7
5°	2942.5	2942.5	2961.1	2981.0	3019.6	3061.9	3122.8	3196.2	3290.7	3305.6
7.5°	2789.5	2799.5	2815.6	2854.2	2898.9	2959.9	3053.2	3157.6	3282.0	3305.6
10°	2666.4	2677.6	2697.5	2728.6	2795.7	2880.3	3002.2	3136.5	3303.1	3340.4
12.5°	2627.8	2639.0	2650.2	2673.8	2736.0	2835.5	2981.0	3146.4	3354.1	3391.4
15°	2717.4	2731.1	2722.3	2716.1	2748.5	2839.3	2991.0	3182.5	3417.5	3471.0
17.5°	2923.8	2928.8	2908.9	2850.4	2845.5	2894.0	3038.2	3232.2	3497.1	3555.6
20°	3257.1	3248.4	3207.4	3091.7	3025.8	3015.8	3119.1	3306.9	3579.2	3641.4
22.5°	3709.8	3699.9	3617.8	3435.0	3288.2	3191.2	3236.0	3403.9	3671.3	3740.9
25°	4274.4	4260.7	4140.1	3891.4	3663.8	3423.8	3395.2	3532.0	3784.4	3849.1
27.5°	4933.6	4922.4	4791.8	4463.5	4135.1	3742.1	3592.9	3682.4	3902.6	3975.9
30°	5642.4	5674.8	5443.5	5090.3	4674.9	4157.5	3859.0	3867.7	4055.5	4121.5
32.5°	6475.7	6531.6	6253.1	5805.4	5238.2	4609.0	4194.8	4126.4	4278.2	4332.9
35°	7301.5	7364.9	7133.6	6638.6	5985.7	5141.2	4545.5	4423.7	4574.1	4633.8
37.5°	8015.3	8099.9	7980.5	7550.2	6785.3	5783.0	5003.2	4773.1	4938.5	5013.1
40°	8578.7	8708.0	8699.3	8430.7	7728.0	6561.5	5584.0	5204.7	5391.2	5472.1
42.5°	9036.4	9148.3	9245.3	9231.6	8711.8	7445.7	6266.7	5765.6	5907.3	6000.6
45°	9352.2	9471.6	9680.6	9905.7	9658.2	8392.1	7049.0	6430.9	6560.2	6700.8
47.5°	9634.5	9770.1	10041.2	10398.1	10461.6	9342.3	7905.9	7205.7	7323.8	7469.4
50°	9659.4	9776.3	10196.7	10702.8	11032.4	10255.1	8826.2	8075.0	8185.7	8341.2
52.5°	9058.7	9242.8	9976.6	10694.1	11294.8	11018.7	9740.3	8979.1	9103.5	9290.1
55°	7031.6	7301.5	9331.1	10360.8	11201.5	11512.5	10609.6	9940.5	10099.7	10294.9
57.5°	6056.6	6174.7	7407.2	9753.9	10776.2	11640.6	11343.3	10911.8	11168.0	11381.9
60°	5443.5	5541.7	6270.5	8810.0	10216.6	11437.8	11910.4	11817.2	12259.9	12514.8
62.5°	4786.8	4880.1	5542.9	7356.2	9500.2	11100.8	12268.6	12652.9	13379.2	13657.8
65°	4135.1	4214.7	4850.2	6180.9	8589.9	10763.8	12453.9	13375.4	14415.1	14703.7
67.5°	3408.8	3474.8	4075.4	5214.6	7483.0	10302.4	12545.9	13943.8	15316.8	15564.3
70°	2459.9	2510.9	3131.5	4123.9	6093.9	9508.9	12508.6	14346.7	15784.4	15982.1
72.5°	1162.8	1208.8	1937.6	2677.6	4304.3	7964.3	11753.7	14027.1	15309.3	15211.1
75°	620.6	660.4	1113.1	1468.7	2273.4	5459.6	9618.4	12083.3	12855.6	12378.0
77.5°	420.4	451.4	689.0	881.7	1038.4	2591.8	6182.2	8366.0	8048.9	7260.4
80°	333.3	365.6	564.6	597.0	502.4	936.5	2554.5	3872.7	2782.0	2224.9
82.5°	256.2	292.3	475.1	432.8	273.6	384.3	743.7	1225.0	712.6	542.2
85°	156.7	195.3	373.1	276.1	154.2	175.4	252.5	340.8	217.6	181.6
87.5°	79.6	111.9	189.0	100.7	69.6	41.0	67.2	67.2	57.2	49.7
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°
3387.7	0°	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7	3387.7
3370.3	2.5°	3400.1	3425.0	3467.3	3507.1	3538.2	3568.0	3597.9	3614.0	3619.0	3638.9
3388.9	5°	3439.9	3485.9	3568.0	3645.1	3693.6	3723.5	3744.6	3757.1	3759.6	3765.8
3439.9	7.5°	3513.3	3586.7	3701.1	3778.2	3814.3	3811.8	3803.1	3772.0	3759.6	3748.4
3514.6	10°	3616.5	3713.5	3854.1	3907.5	3885.2	3825.5	3748.4	3657.6	3615.3	3574.2
3616.5	12.5°	3744.6	3867.7	4005.8	4003.3	3892.6	3739.7	3560.6	3421.3	3333.0	3269.6
3742.1	15°	3900.1	4041.9	4147.6	4063.0	3820.5	3545.6	3283.2	3101.7	3022.1	2952.4
3869.0	17.5°	4060.5	4212.2	4260.7	4044.3	3638.9	3258.4	2961.1	2818.1	2739.8	2702.4
4005.8	20°	4217.2	4367.7	4327.9	3937.4	3362.8	2932.5	2667.6	2589.3	2573.1	2581.8
4138.9	22.5°	4382.6	4516.9	4341.6	3730.9	3010.9	2599.2	2453.7	2456.2	2492.3	2518.4
4278.2	25°	4551.8	4642.5	4305.5	3432.5	2632.8	2354.2	2318.2	2358.0	2428.8	2479.8
4434.9	27.5°	4714.7	4754.5	4227.2	3063.1	2308.2	2178.9	2185.1	2267.2	2374.1	2445.0
4625.1	30°	4898.7	4854.0	4076.7	2647.7	2083.1	2028.4	2080.6	2176.4	2283.3	2346.8
4865.2	32.5°	5106.4	4939.8	3837.9	2263.4	1923.9	1907.8	1993.6	2055.8	2103.0	2121.7
5183.5	35°	5365.1	5060.4	3532.0	1993.6	1780.9	1819.5	1901.5	1870.4	1851.8	1841.8
5611.3	37.5°	5700.9	5223.3	3173.8	1818.2	1665.2	1756.0	1789.6	1692.6	1619.2	1583.2
6129.9	40°	6105.1	5462.1	2829.3	1682.7	1591.9	1701.3	1642.9	1526.0	1432.7	1381.7
6713.2	42.5°	6554.0	5712.1	2539.5	1580.7	1550.8	1656.5	1534.7	1395.4	1244.9	1228.7
7408.4	45°	7025.4	5969.5	2341.8	1502.3	1530.9	1618.0	1472.5	1247.4	1140.4	1206.3
8106.1	47.5°	7496.7	6205.8	2222.4	1443.9	1521.0	1574.5	1417.8	1165.3	1089.4	1185.2
8853.5	50°	8021.5	6417.2	2168.9	1401.6	1509.8	1557.0	1335.7	1144.2	1036.0	1099.4
9627.1	52.5°	8542.6	6581.4	2129.1	1359.3	1493.6	1543.4	1295.9	1119.3	971.3	975.0
10405.6	55°	9062.5	6688.3	2085.6	1303.3	1457.6	1513.5	1292.2	1091.9	922.8	905.4
11228.9	57.5°	9617.1	6749.3	2032.1	1241.2	1395.4	1437.7	1288.4	1070.8	907.9	879.3
12070.9	60°	10181.8	6838.8	1962.5	1165.3	1312.0	1346.9	1279.7	1063.3	899.2	850.7
12864.3	62.5°	10687.9	6869.9	1879.2	1093.2	1205.1	1257.3	1261.1	1057.1	875.5	792.2
13523.4	65°	11020.0	6735.6	1733.6	1011.1	1089.4	1165.3	1225.0	1036.0	833.2	749.9
13849.3	67.5°	11006.3	6352.6	1506.1	905.4	977.5	1063.3	1172.8	999.9	782.3	697.7
13603.0	70°	10493.9	5596.4	1217.5	782.3	854.4	953.9	1105.6	946.4	721.3	640.5
12095.7	72.5°	9000.3	4380.1	884.2	638.0	711.4	840.7	1018.5	881.7	659.1	589.5
8939.3	75°	6429.7	2772.1	599.4	490.0	553.4	712.6	910.4	805.9	601.9	592.0
4477.1	77.5°	3284.5	1324.5	396.7	358.2	385.5	562.1	764.8	720.1	610.6	488.8
1273.5	80°	1068.3	488.8	250.0	243.8	256.2	374.3	592.0	590.7	462.6	332.1
308.4	82.5°	340.8	210.2	162.9	156.7	150.5	235.0	412.9	467.6	312.2	210.2
110.7	85°	135.6	125.6	95.8	88.3	63.4	110.7	216.4	310.9	232.6	151.7
28.6	87.5°	49.7	49.7	26.1	18.7	13.7	37.3	58.5	93.3	133.1	78.3
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>
3387.7
3650.1
3775.7
3750.8
3561.8
3254.6
2945.0
2713.6
2578.1
2524.6
2493.5
2462.4
2361.7
2131.6
1851.8
1591.9
1385.4
1244.9
1241.2
1230.0
1146.6
1001.1
917.8
883.0
854.4
792.2
749.9
701.4
647.9
585.8
558.4
435.3
293.5
208.9
155.5
77.1
0.0

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