

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: P954909

Luminaire Tested: **GALN-SB8A-735-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-735-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

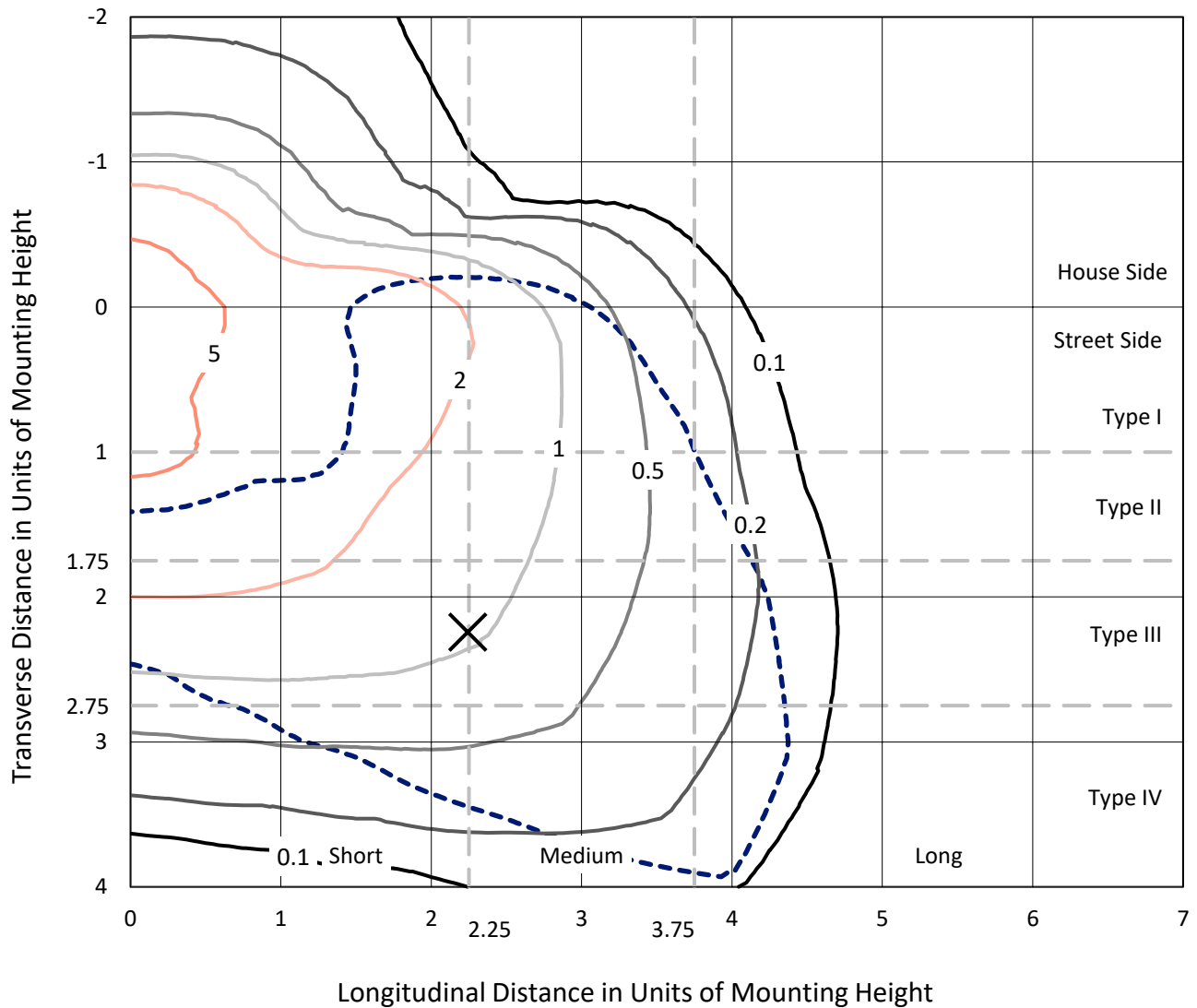
Lumens per Lamp: N/A  
Luminaire Lumens: 36202 lumens  
Efficiency: N/A  
Efficacy: 159.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

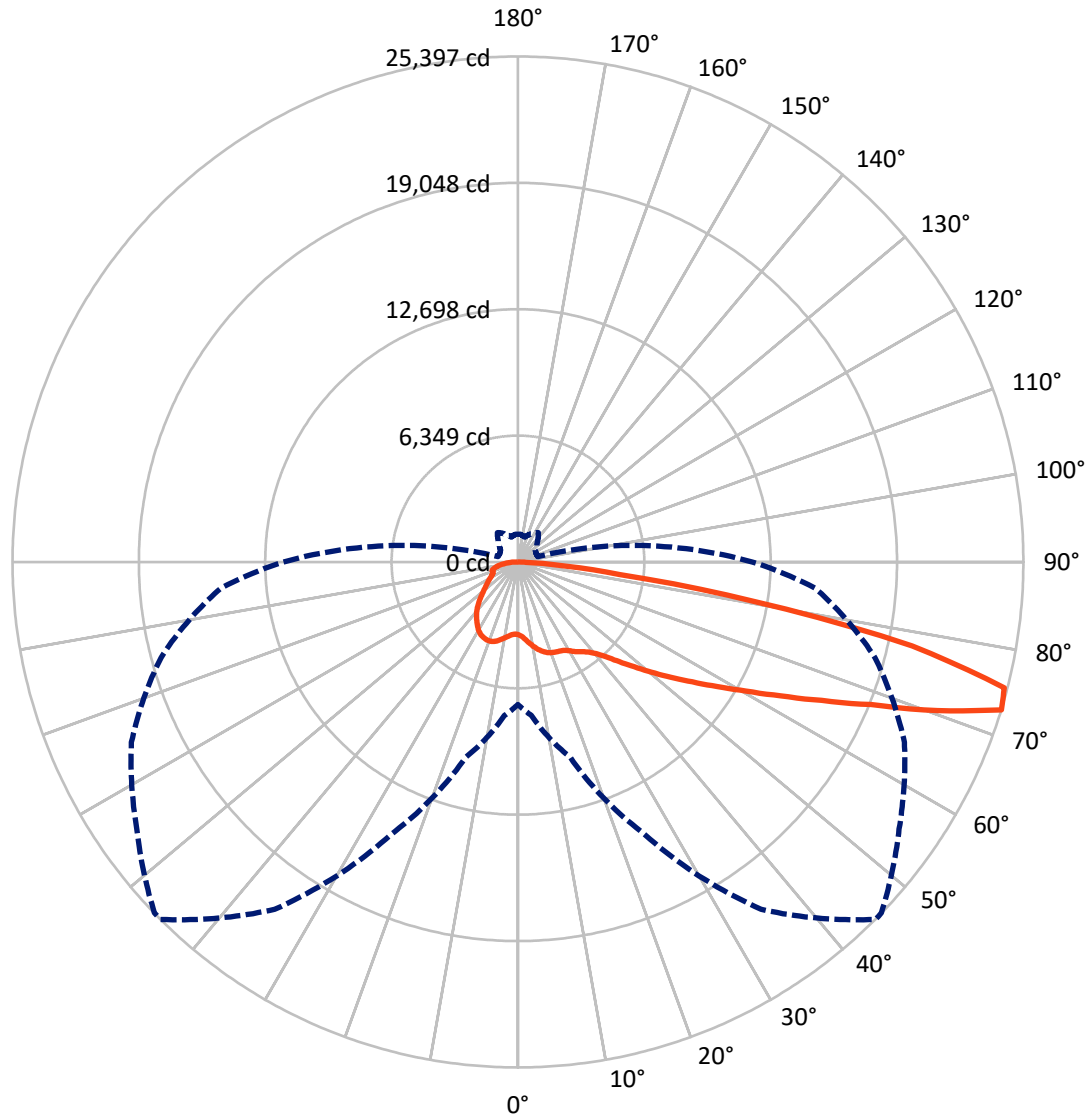
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8184.0	0.0	8184.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	28018.0	0.0	28018.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	36202.0	0.0	36202.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.7	1.0
10°-20°	1239.3	3.4
20°-30°	2155.9	6.0
30°-40°	3090.6	8.5
40°-50°	4351.7	12.0
50°-60°	6665.5	18.4
60°-70°	9656.0	26.7
70°-80°	7710.9	21.3
80°-90°	960.4	2.7
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°	36202.0	100.0
0°-180°	36202.0	100.0

**Coefficient of Utilization**



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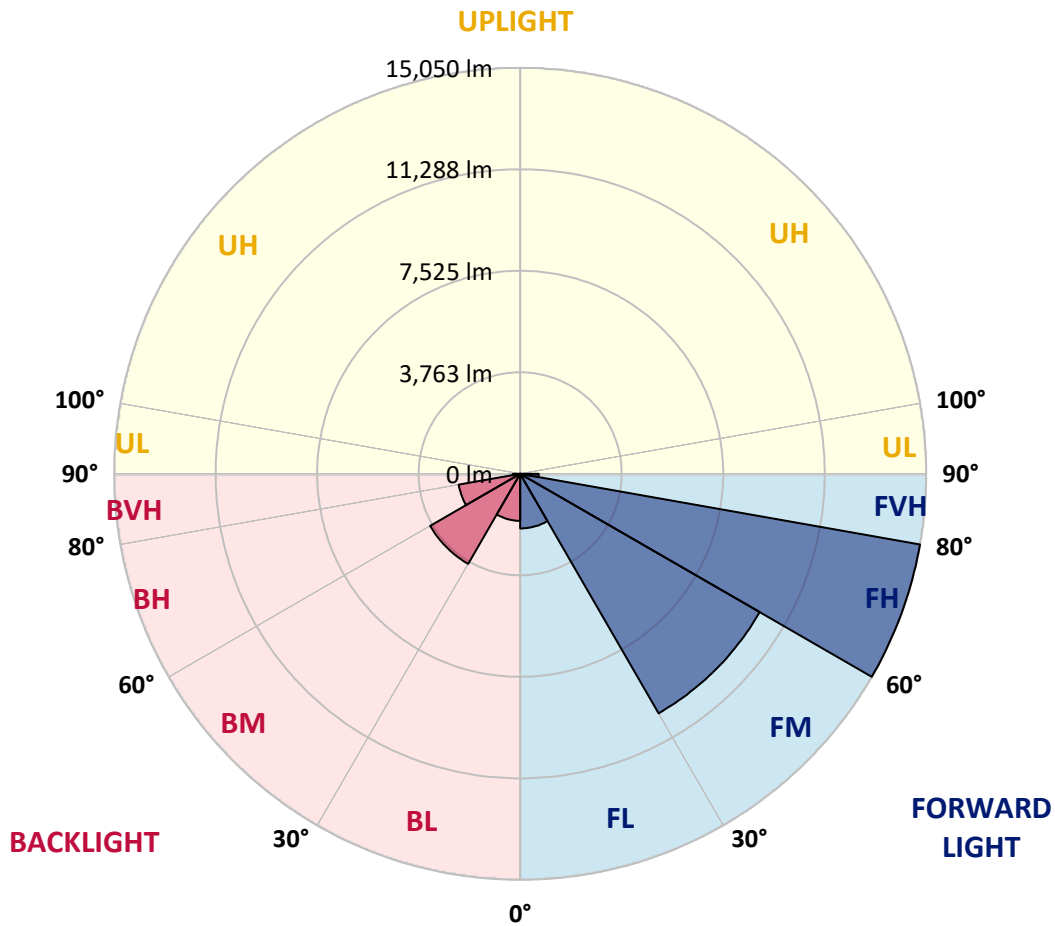
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2024.5	5.6			
FM (30°-60°)	10254.3	28.3			
FH (60°-80°)	15050.2	41.6			G5
FVH (80°-90°)	689.0	1.9			G4/750
BL (0°-30°)	1742.4	4.8	B3/2500		
BM (30°-60°)	3853.5	10.6	B3/5000		
BH (60°-80°)	2316.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	271.4	0.7			G3/500
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1
2.5°	3795.1	3819.9	3797.0	3776.0	3766.5	3741.7	3739.8	3724.5	3715.0	3688.3
5°	4060.2	4092.6	4054.5	4012.5	3974.4	3913.3	3905.7	3861.9	3812.3	3755.1
7.5°	4359.6	4388.2	4344.4	4281.4	4214.7	4113.6	4111.7	4031.6	3953.4	3856.1
10°	4620.9	4659.0	4599.9	4514.1	4430.2	4315.7	4302.4	4210.9	4111.7	3985.8
12.5°	4851.6	4878.3	4821.1	4716.2	4619.0	4504.5	4487.4	4386.3	4275.7	4132.7
15°	5034.7	5069.0	4992.8	4880.2	4777.3	4664.7	4649.5	4557.9	4447.3	4296.7
17.5°	5154.9	5183.5	5105.3	4979.4	4880.2	4786.8	4775.4	4699.1	4601.8	4449.2
20°	5200.6	5231.1	5149.1	5021.4	4929.8	4857.4	4851.6	4796.3	4729.6	4590.4
22.5°	5246.4	5275.0	5168.2	5034.7	4954.6	4908.8	4906.9	4870.7	4844.0	4729.6
25°	5431.4	5439.0	5296.0	5103.4	4988.9	4948.9	4947.0	4945.1	4956.5	4866.9
27.5°	5591.6	5589.7	5467.6	5286.5	5109.1	5025.2	5023.3	5042.3	5078.6	5004.2
30°	5826.2	5805.2	5660.2	5471.4	5309.3	5179.7	5168.2	5151.0	5179.7	5120.5
32.5°	6323.9	6257.2	6022.6	5686.9	5475.3	5376.1	5360.8	5254.0	5265.5	5229.2
35°	7037.2	6949.4	6636.7	6095.1	5681.2	5540.1	5532.5	5397.1	5374.2	5341.8
37.5°	7885.8	7777.1	7412.9	6686.3	6035.9	5730.8	5719.4	5597.3	5503.9	5469.5
40°	8738.3	8601.0	8299.7	7407.1	6558.5	6049.3	6013.1	5828.1	5721.3	5664.1
42.5°	9566.0	9451.5	9194.1	8215.7	7203.1	6514.6	6434.5	6117.9	6037.8	5984.4
45°	10298.3	10195.3	10006.5	9079.7	7958.3	7147.8	7069.6	6552.8	6528.0	6528.0
47.5°	10893.3	10870.4	10670.2	9960.7	8848.9	7868.7	7733.2	7157.3	7224.1	7327.0
50°	11553.2	11490.2	11276.6	10828.5	9895.9	8694.4	8583.8	7899.2	8149.0	8431.2
52.5°	12159.6	12193.9	11955.5	11732.4	11078.3	9615.5	9421.0	8774.5	9314.2	9781.5
55°	12783.2	12785.1	12718.4	12687.9	12317.9	10633.9	10420.3	9827.2	10685.4	11265.2
57.5°	13368.7	13372.5	13471.7	13740.6	13755.8	11808.7	11566.5	11120.2	12209.2	12800.4
60°	13891.2	13917.9	14188.7	14818.1	15020.2	13155.1	12926.3	12647.8	13784.4	14379.5
62.5°	14066.7	14164.0	14766.6	15661.0	16269.4	14806.6	14581.6	14415.7	15439.8	15992.9
65°	13769.2	13992.3	15157.6	16357.1	17554.8	16769.0	16545.9	16364.7	17160.0	17680.6
67.5°	13038.8	13326.7	15134.7	17087.5	19114.8	19130.0	18922.1	18496.9	19004.2	19204.4
70°	11114.5	11545.5	13801.6	17360.2	20905.5	22358.7	22158.5	21063.8	20844.5	19875.7
72.5°	7161.1	7740.9	10162.9	15115.6	21304.1	25396.7	25385.3	23380.9	21426.2	18571.2
75°	2612.7	2967.4	4722.0	9487.8	17882.8	25242.2	25316.6	22984.2	19559.1	14345.1
77.5°	951.6	1041.3	1540.9	3646.4	10998.2	20253.3	20407.8	18374.8	13921.8	7199.3
80°	499.7	549.2	789.5	1415.1	4712.4	12028.0	12270.2	10920.0	6543.2	2168.4
82.5°	276.5	299.4	442.4	768.6	2122.6	5143.4	5288.4	4313.8	2301.9	919.2
85°	148.8	158.3	207.9	419.6	1037.5	1783.1	1823.2	1289.2	917.3	539.7
87.5°	43.9	53.4	68.7	133.5	406.2	400.5	410.0	255.6	362.3	272.7
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°
3652.1	0°	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1	3652.1
3680.7	2.5°	3669.2	3663.5	3642.5	3633.0	3621.6	3619.7	3629.2	3631.1	3633.0	3634.9
3722.6	5°	3703.6	3684.5	3665.4	3654.0	3657.8	3659.7	3678.8	3692.1	3701.7	3709.3
3800.8	7.5°	3770.3	3755.1	3722.6	3720.7	3726.5	3743.6	3768.4	3798.9	3816.1	3829.4
3901.9	10°	3869.5	3840.9	3802.7	3808.5	3819.9	3844.7	3896.2	3921.0	3949.6	3974.4
4025.9	12.5°	3970.6	3945.8	3901.9	3905.7	3924.8	3968.7	4018.2	4048.8	4067.8	4086.9
4159.4	15°	4102.2	4058.3	4010.6	4010.6	4044.9	4092.6	4115.5	4140.3	4151.7	4172.7
4302.4	17.5°	4237.6	4180.3	4117.4	4113.6	4155.5	4178.4	4191.8	4195.6	4199.4	4222.3
4441.6	20°	4373.0	4310.0	4220.4	4212.8	4222.3	4218.5	4216.6	4212.8	4218.5	4247.1
4584.6	22.5°	4506.5	4434.0	4310.0	4275.7	4249.0	4212.8	4210.9	4208.9	4212.8	4241.4
4739.1	25°	4662.8	4575.1	4409.2	4306.2	4216.6	4167.0	4172.7	4174.6	4178.4	4201.3
4899.3	27.5°	4832.6	4735.3	4500.7	4296.7	4134.6	4100.2	4090.7	4096.4	4109.8	4146.0
5059.5	30°	5002.3	4887.9	4584.6	4258.5	4031.6	3983.9	3953.4	3966.7	4008.7	4044.9
5198.7	32.5°	5156.8	5042.3	4651.4	4174.6	3900.0	3825.6	3785.6	3802.7	3844.7	3858.0
5353.2	35°	5337.9	5208.3	4680.0	4041.1	3757.0	3642.5	3589.1	3564.4	3585.3	3572.0
5534.4	37.5°	5540.1	5404.7	4676.2	3865.7	3589.1	3457.6	3383.2	3289.7	3245.9	3200.1
5801.4	40°	5839.5	5645.0	4630.4	3654.0	3381.3	3261.1	3127.6	2969.3	2870.2	2780.5
6232.4	42.5°	6247.6	5978.7	4546.5	3421.3	3146.7	3034.2	2853.0	2668.0	2511.6	2362.9
6886.5	45°	6856.0	6415.5	4441.6	3173.4	2893.1	2782.4	2586.0	2378.1	2200.8	2010.1
7815.3	47.5°	7733.2	7002.8	4342.4	2891.1	2626.1	2525.0	2347.6	2155.0	1945.2	1760.2
9157.8	50°	8938.5	7845.8	4250.9	2616.5	2362.9	2286.6	2145.5	1949.0	1737.4	1588.6
10731.2	52.5°	10471.8	8991.9	4212.8	2351.4	2116.9	2088.3	1975.7	1792.7	1592.4	1466.6
12565.8	55°	12232.1	10363.1	4212.8	2097.8	1901.4	1910.9	1832.7	1663.0	1489.4	1376.9
14457.6	57.5°	14028.6	11751.5	4136.5	1863.2	1718.3	1758.3	1708.8	1560.0	1403.6	1287.3
16446.7	60°	15683.9	12914.8	3827.5	1649.6	1556.2	1619.1	1586.7	1458.9	1268.2	1171.0
18109.7	62.5°	16955.9	13570.9	3232.5	1479.9	1422.7	1495.2	1478.0	1325.4	1243.4	1203.4
19475.2	65°	17592.9	13464.1	2471.6	1329.2	1310.2	1422.7	1386.5	1380.7	1315.9	1270.1
19919.6	67.5°	17202.0	12544.8	1792.7	1218.6	1245.3	1355.9	1495.2	1518.0	1397.9	1308.3
18668.5	70°	15487.5	10881.9	1335.0	1113.7	1163.3	1357.8	1704.9	1588.6	1371.2	1266.3
14972.6	72.5°	11782.0	8114.7	1035.5	1003.1	1056.5	1367.4	1798.4	1556.2	1294.9	1399.8
9327.6	75°	6737.7	4455.0	831.5	867.7	923.0	1277.8	1750.7	1472.3	1235.8	1285.4
3695.9	77.5°	2568.9	1712.6	686.6	734.2	741.9	1115.6	1674.4	1466.6	1176.7	1148.1
1108.0	80°	890.6	669.4	568.3	583.6	574.0	991.7	1605.8	1275.8	963.1	862.0
457.7	82.5°	364.3	333.7	450.1	431.0	408.1	770.5	1296.8	1043.2	787.6	696.1
221.2	85°	158.3	211.7	297.5	261.3	236.5	534.0	1039.4	883.0	665.6	574.0
72.5	87.5°	32.4	80.1	125.9	118.2	122.1	356.6	738.0	627.4	471.1	352.8
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>
3652.1
3642.5
3713.1
3833.3
3968.7
4094.5
4180.3
4229.9
4258.5
4260.4
4231.8
4182.2
4085.0
3905.7
3613.9
3228.7
2786.3
2349.5
1987.2
1739.3
1579.1
1457.0
1365.5
1268.2
1155.7
1190.0
1254.9
1293.0
1249.1
1388.4
1285.4
1047.0
833.4
688.5
572.1
276.5
0.0

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