

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: P955052

Luminaire Tested: **GALN-SB8A-840-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-840-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

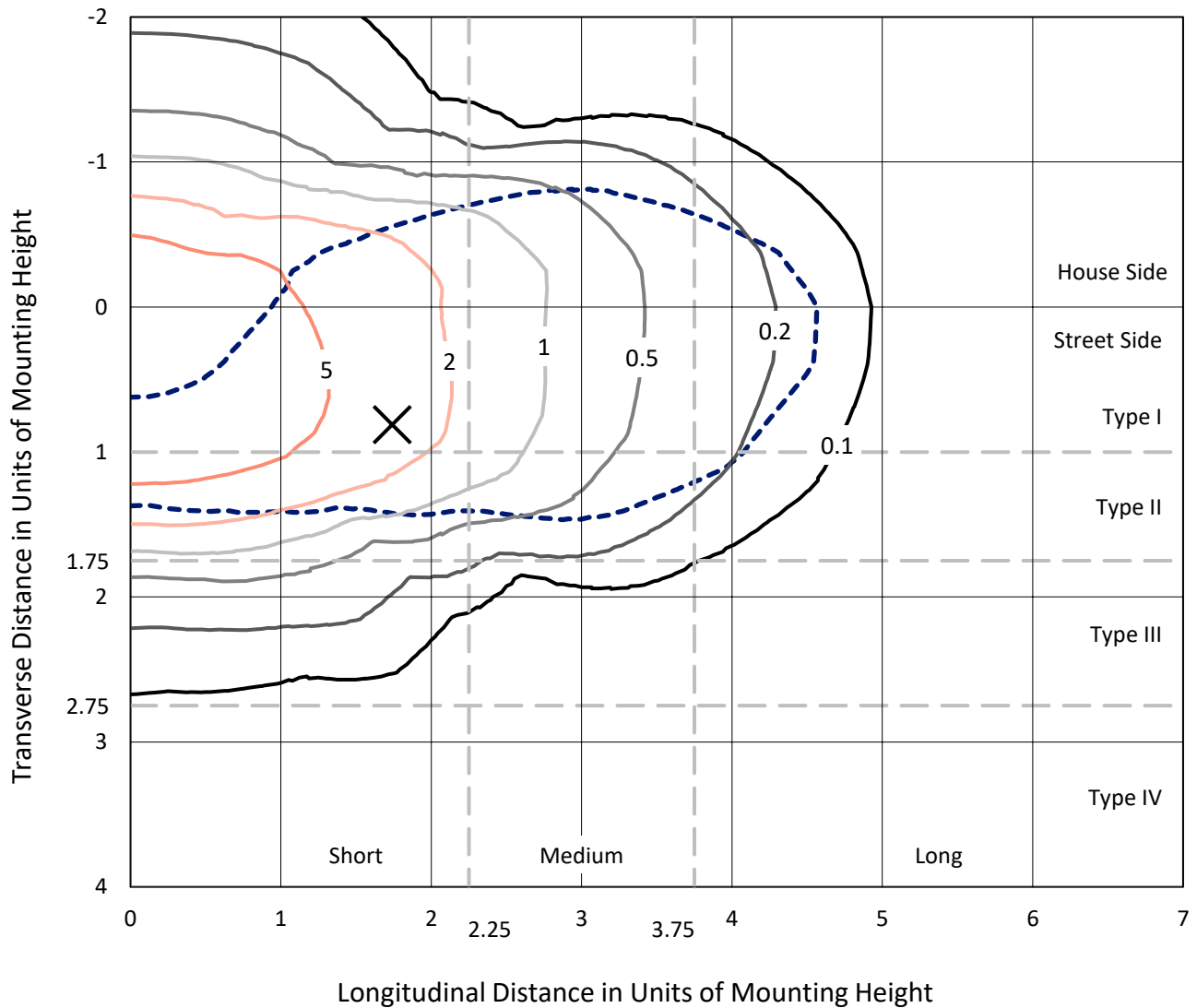
Lumens per Lamp: N/A  
Luminaire Lumens: 35160 lumens  
Efficiency: N/A  
Efficacy: 154.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

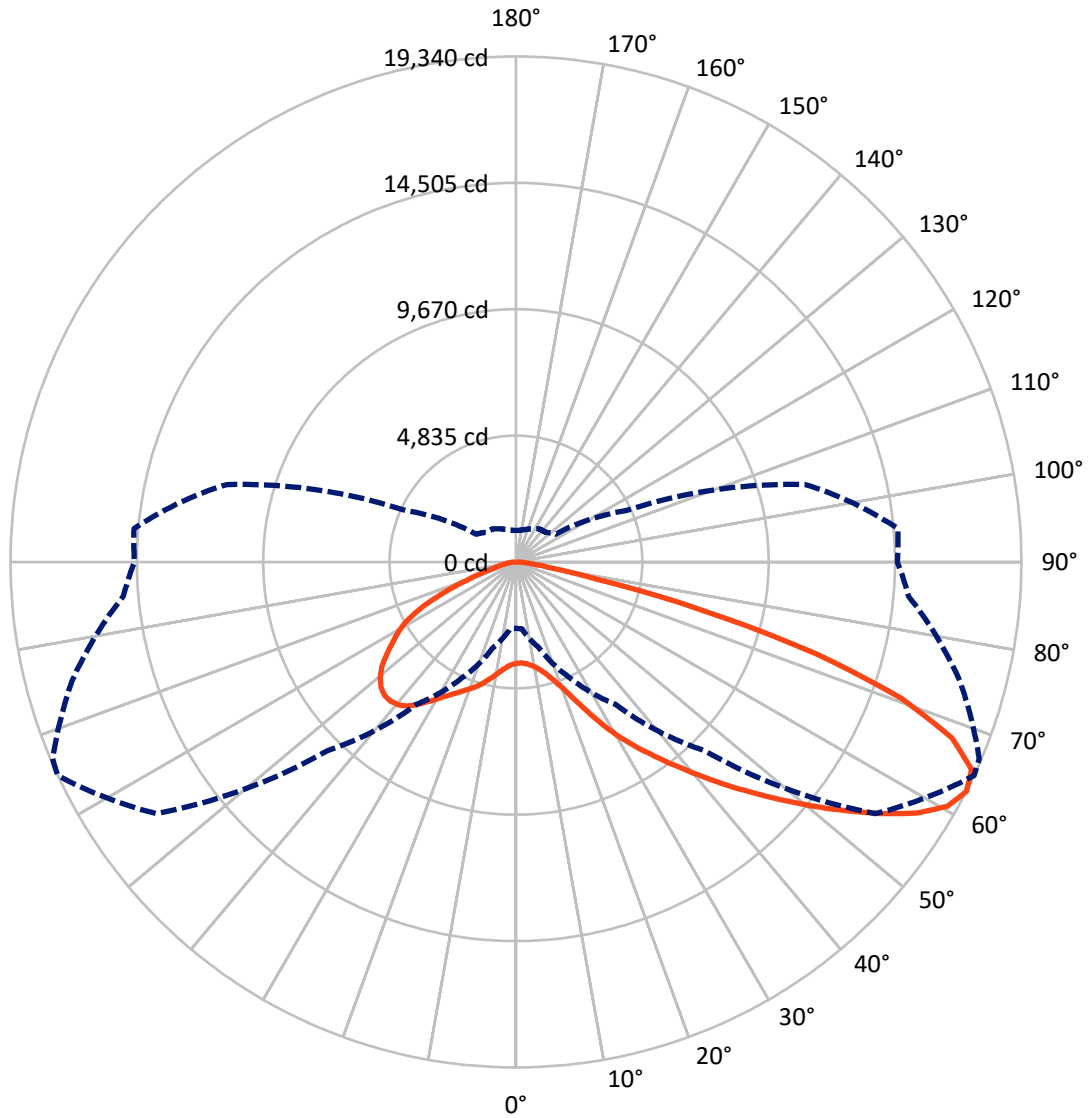
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11095.0	0.0	11095.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	24065.0	0.0	24065.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	35160.0	0.0	35160.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.3	1.1
10°-20°	1309.9	3.7
20°-30°	2656.0	7.6
30°-40°	4596.1	13.1
40°-50°	6955.4	19.8
50°-60°	8154.7	23.2
60°-70°	6836.8	19.4
70°-80°	3774.5	10.7
80°-90°	490.3	1.4
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°	35160.0	100.0
0°-180°	35160.0	100.0

**Coefficient of Utilization**



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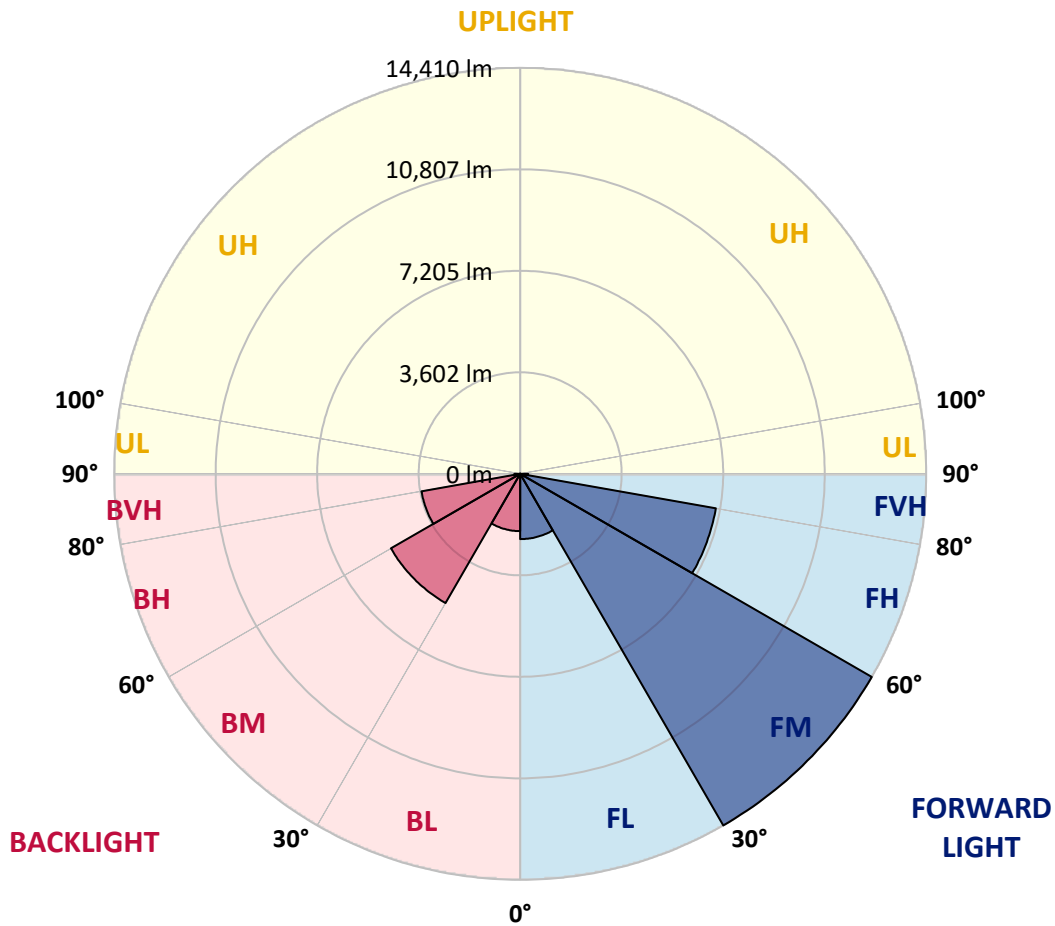
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.5	6.6			
FM (30°-60°)	14409.7	41.0			
FH (60°-80°)	7052.1	20.1			G3/7500
FVH (80°-90°)	285.8	0.8			G3/500
BL (0°-30°)	2034.7	5.8	B3/2500		
BM (30°-60°)	5296.6	15.1	B4/8500		
BH (60°-80°)	3559.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	204.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5
2.5°	3848.9	3838.0	3847.1	3847.1	3850.8	3848.9	3861.7	3865.4	3870.8	3881.8
5°	3810.6	3808.8	3825.2	3839.8	3854.4	3867.2	3883.6	3907.3	3911.0	3923.7
7.5°	3797.9	3786.9	3812.5	3830.7	3865.4	3896.4	3940.1	3980.3	3996.7	4002.2
10°	3896.4	3878.1	3901.8	3912.8	3942.0	3973.0	4024.1	4087.9	4106.1	4128.0
12.5°	4064.2	4044.1	4078.8	4095.2	4122.6	4149.9	4184.6	4246.6	4255.7	4295.9
15°	4294.0	4270.3	4292.2	4312.3	4357.9	4383.4	4418.1	4478.3	4478.3	4509.3
17.5°	4606.0	4575.0	4591.4	4598.7	4627.9	4666.2	4724.5	4777.4	4804.8	4793.8
20°	5071.1	5032.8	5032.8	4996.3	4985.4	5016.4	5093.0	5166.0	5195.2	5138.6
22.5°	5769.8	5715.0	5684.0	5560.0	5510.7	5514.4	5591.0	5680.4	5704.1	5603.8
25°	6658.1	6572.4	6530.4	6348.0	6236.7	6140.1	6200.3	6315.2	6348.0	6224.0
27.5°	7546.5	7552.0	7511.8	7292.9	7108.7	6931.7	6900.7	7021.1	7055.8	6915.3
30°	8792.4	8662.9	8586.2	8323.6	8060.9	7812.8	7685.1	7734.4	7743.5	7575.7
32.5°	9866.8	9834.0	9669.8	9439.9	9102.5	8713.9	8500.5	8422.1	8407.5	8168.5
35°	11090.8	11072.5	10899.3	10625.6	10260.8	9720.9	9336.0	9111.6	9093.4	8757.7
37.5°	12334.9	12334.9	12165.2	11866.0	11488.5	10813.5	10228.0	9872.3	9813.9	9376.1
40°	13327.2	13267.0	13298.0	13172.1	12739.8	12022.9	11218.5	10702.2	10623.8	10098.5
42.5°	13890.8	13870.8	14056.8	14197.3	14020.4	13447.6	12309.3	11601.5	11492.1	10893.8
45°	14016.7	13994.8	14326.8	14841.2	15089.3	14854.0	13495.0	12548.3	12415.1	11725.6
47.5°	13726.7	13682.9	14169.9	14981.7	15777.0	16191.1	14779.2	13575.3	13381.9	12535.5
50°	12854.7	12812.8	13549.7	14627.8	16008.7	17099.5	16172.9	14664.3	14368.8	13403.8
52.5°	10959.5	10979.5	12134.2	13615.4	15704.0	17665.0	17373.1	15811.7	15456.0	14292.2
55°	8537.0	8580.8	10000.0	11630.7	14485.5	17579.3	18192.2	16993.7	16639.8	15127.6
57.5°	6112.7	6306.1	7635.9	9250.2	12145.1	16220.3	18370.9	18117.4	17774.4	16039.7
60°	3962.0	3996.7	5364.8	6991.9	9248.4	13805.1	18007.9	18969.3	18701.1	16970.0
62.5°	2539.2	2562.9	3396.6	4890.5	6656.3	10213.4	16785.8	19339.6	19257.5	17584.7
65°	1866.1	1847.9	2282.0	3232.4	4483.7	6298.8	14412.6	19160.8	19323.1	17969.6
67.5°	1557.8	1532.3	1745.7	2238.2	3303.5	3577.1	10663.9	17998.8	18593.5	17925.9
70°	1419.2	1397.3	1526.8	1661.8	2577.5	2395.1	5375.7	15647.5	16563.2	17427.9
72.5°	1202.1	1163.8	1340.7	1475.7	2004.7	1836.9	2221.8	12019.3	13135.7	15831.7
75°	932.1	906.6	1058.0	1298.8	1506.7	1433.8	1404.6	7298.4	8516.9	12243.6
77.5°	738.8	704.1	842.8	1012.4	1355.3	1081.7	1023.3	3143.0	4350.6	7816.5
80°	556.4	525.4	640.3	800.8	1041.6	815.4	662.2	1282.4	1639.9	3960.2
82.5°	395.8	368.5	446.9	587.4	700.5	731.5	406.8	718.7	808.1	1526.8
85°	253.6	237.1	299.2	368.5	445.1	470.6	248.1	375.8	412.3	629.3
87.5°	138.6	113.1	160.5	171.5	206.1	187.9	118.6	136.8	147.8	228.0
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°
3874.5	0°	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5	3874.5
3881.8	2.5°	3889.1	3894.5	3912.8	3918.3	3931.0	3947.4	3958.4	3969.3	3969.3	3980.3
3940.1	5°	3942.0	3954.7	3993.0	4013.1	4045.9	4078.8	4098.8	4122.6	4137.2	4144.5
4033.2	7.5°	4044.1	4064.2	4118.9	4153.6	4210.1	4255.7	4286.7	4319.6	4326.9	4346.9
4162.7	10°	4182.8	4206.5	4268.5	4334.2	4401.7	4458.2	4487.4	4511.1	4520.2	4523.9
4328.7	12.5°	4341.5	4376.1	4456.4	4536.6	4607.8	4657.0	4664.3	4658.9	4633.3	4611.4
4533.0	15°	4536.6	4567.7	4657.0	4744.6	4813.9	4823.0	4777.4	4748.2	4717.2	4711.8
4761.0	17.5°	4770.1	4786.6	4868.6	4954.4	4959.8	4928.8	4861.3	4834.0	4804.8	4784.7
5058.3	20°	5041.9	5036.5	5094.8	5131.3	5093.0	4998.2	4896.0	4850.4	4821.2	4797.5
5423.2	22.5°	5366.6	5324.7	5317.4	5308.3	5206.1	5007.3	4868.6	4810.3	4764.7	4731.8
5932.1	25°	5839.1	5678.6	5567.3	5505.3	5275.4	4958.0	4781.1	4651.6	4565.8	4509.3
6554.1	27.5°	6430.1	6160.1	5879.2	5727.8	5275.4	4857.7	4569.5	4359.7	4219.2	4160.9
7156.1	30°	6993.8	6711.0	6296.9	5996.0	5262.7	4693.5	4228.4	3936.5	3772.3	3714.0
7670.5	32.5°	7475.3	7167.1	6740.2	6289.6	5231.6	4427.2	3805.2	3482.3	3323.6	3254.3
8179.5	35°	7922.3	7593.9	7185.3	6612.5	5149.6	4036.8	3340.0	3093.7	2916.8	2805.5
8697.5	37.5°	8380.1	7989.7	7606.7	6904.4	5001.8	3580.8	2982.5	2772.7	2564.7	2415.2
9248.4	40°	8878.1	8411.1	8057.2	7077.7	4759.2	3146.6	2705.2	2513.7	2292.9	2134.2
9883.2	42.5°	9460.0	8916.4	8558.9	7167.1	4427.2	2838.4	2524.6	2336.7	2128.8	1999.3
10563.6	45°	10067.4	9472.8	9016.7	7165.2	4056.9	2694.3	2466.2	2280.2	2050.3	1915.4
11262.3	47.5°	10704.1	10054.7	9412.6	7048.5	3735.8	2714.3	2433.4	2158.0	1904.4	1773.1
11968.2	50°	11342.5	10691.3	9795.6	6829.6	3599.0	2670.5	2311.2	1986.5	1687.3	1568.8
12630.4	52.5°	11975.5	11368.1	10125.8	6517.7	3460.4	2508.2	2154.3	1763.9	1597.9	1515.9
13314.4	55°	12612.1	12037.5	10485.2	6063.5	3113.8	2318.5	1891.6	1680.0	1526.8	1452.0
13983.9	57.5°	13250.6	12811.0	10826.3	5609.2	2677.8	2085.0	1747.5	1577.9	1455.7	1391.8
14543.9	60°	13914.6	13695.7	11178.3	5191.5	2247.3	1785.8	1641.7	1495.8	1371.8	1300.6
15082.0	62.5°	14598.6	14669.8	11453.8	4653.4	1851.5	1603.4	1546.9	1397.3	1276.9	1209.4
15527.1	65°	15288.1	15609.2	11634.4	3907.3	1501.3	1430.1	1444.7	1289.7	1167.5	1109.1
15853.6	67.5°	15808.0	16285.9	11583.3	2956.9	1231.3	1266.0	1317.0	1176.6	1061.7	1016.0
15800.7	70°	15866.4	16205.7	11079.8	2024.8	1030.6	1105.4	1174.7	1065.3	946.7	913.9
15056.5	72.5°	15089.3	15111.2	9677.1	1322.5	871.9	970.4	1025.2	952.2	837.3	804.4
13172.1	75°	13051.7	12497.2	7105.0	871.9	729.7	833.6	884.7	833.6	722.4	729.7
9855.8	77.5°	9888.7	8850.7	4314.1	620.2	609.3	700.5	769.8	733.3	638.5	716.9
4956.2	80°	5094.8	4788.4	1924.5	463.3	481.6	560.0	633.0	585.5	505.3	481.6
1107.3	82.5°	1167.5	1357.2	758.8	332.0	348.4	403.1	483.4	439.6	363.0	306.5
461.5	85°	408.6	446.9	335.6	208.0	204.3	251.7	328.3	293.7	246.3	197.0
195.2	87.5°	129.5	169.6	125.9	83.9	87.6	113.1	151.4	138.6	114.9	74.8
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>
3874.5
3980.3
4148.1
4339.6
4514.8
4611.4
4711.8
4786.6
4799.3
4742.8
4531.2
4190.1
3748.6
3288.9
2842.0
2455.3
2165.3
2024.8
1937.2
1791.3
1576.1
1515.9
1444.7
1380.9
1295.1
1207.6
1107.3
1017.9
915.7
802.6
704.1
631.2
439.6
302.8
208.0
78.4
0.0

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