

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: P956437

Luminaire Tested: **GALN-SB9A-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9A-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

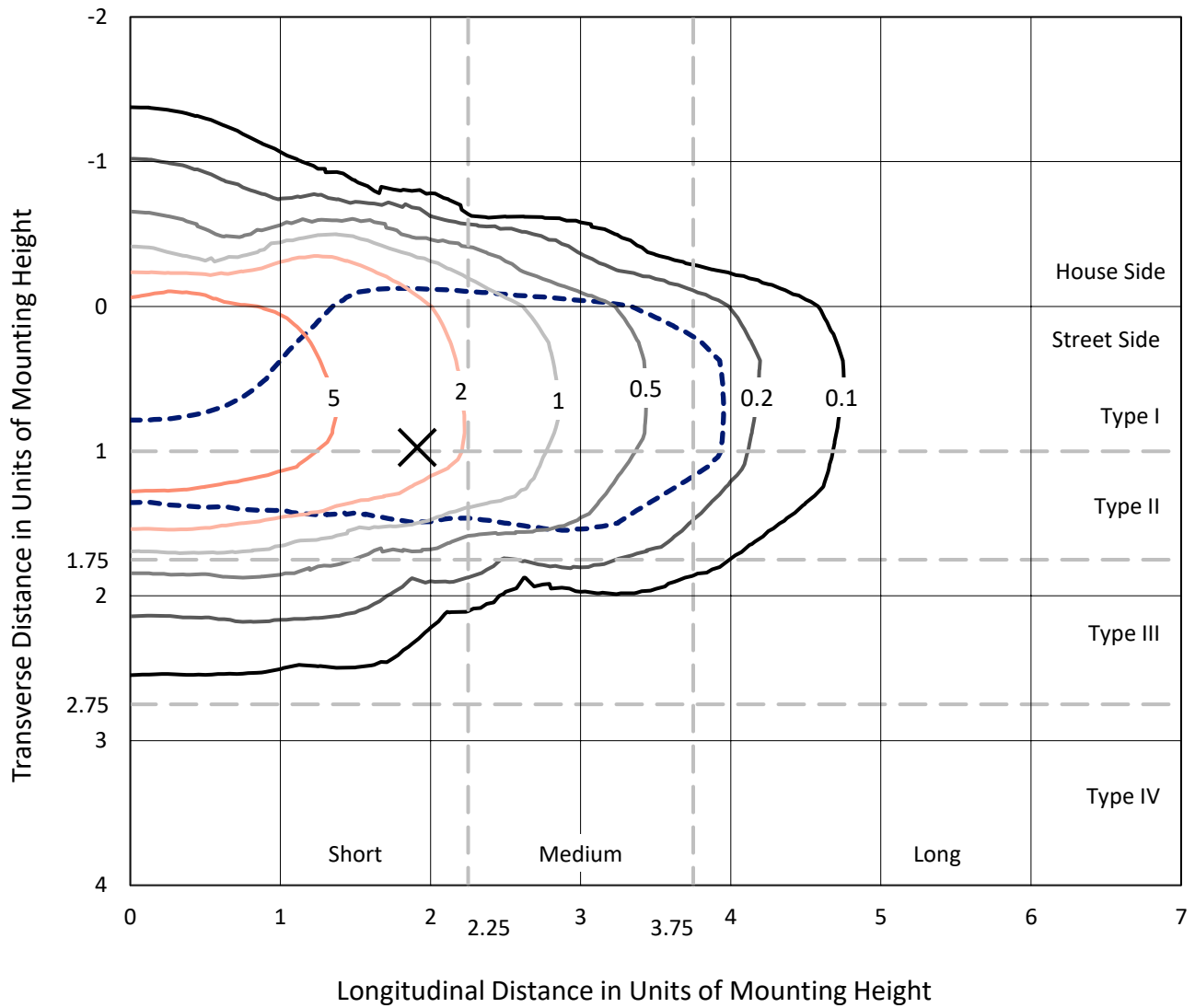
Lumens per Lamp: N/A  
Luminaire Lumens: 28058 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

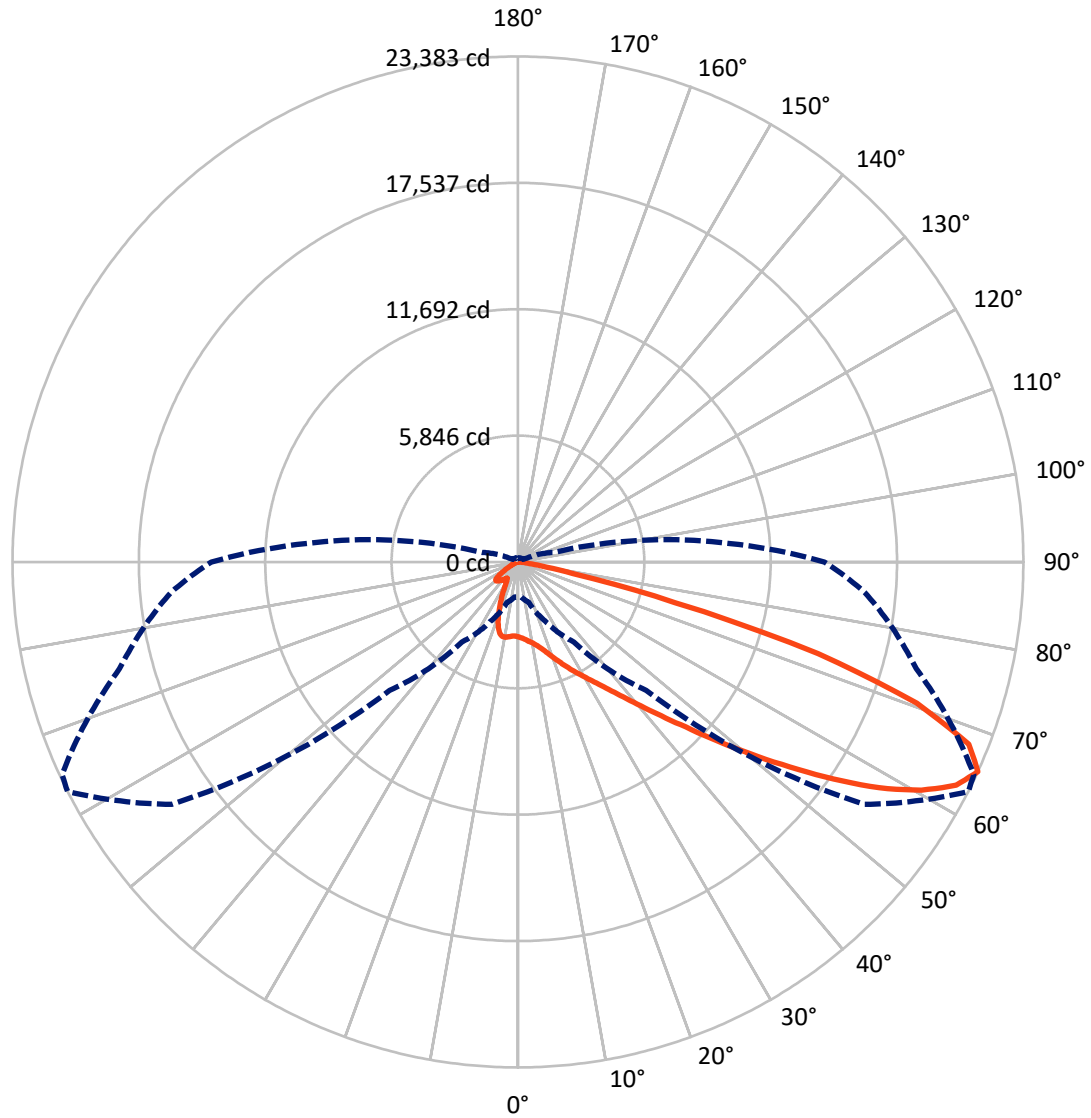
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4124.3	0.0	4124.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	23933.7	0.0	23933.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	28058.0	0.0	28058.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.3	1.2
10°-20°	905.3	3.2
20°-30°	1576.3	5.6
30°-40°	2841.2	10.1
40°-50°	5634.9	20.1
50°-60°	7675.7	27.4
60°-70°	6126.7	21.8
70°-80°	2772.5	9.9
80°-90°	199.3	0.7
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°	28058.0	100.0
0°-180°	28058.0	100.0

**Coefficient of Utilization**



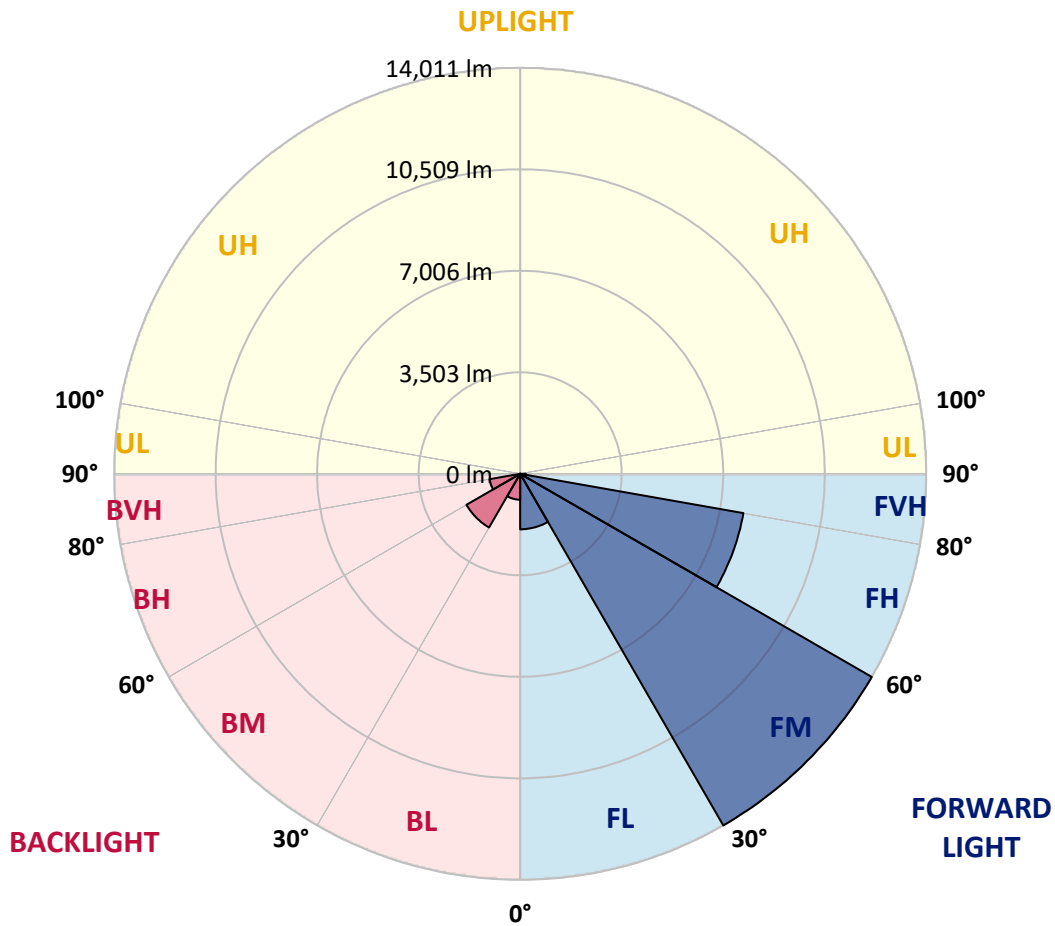
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.3	6.8			
FM (30°-60°)	14011.5	49.9			
FH (60°-80°)	7822.4	27.9			G4/12000
FVH (80°-90°)	184.5	0.7			G2/225
BL (0°-30°)	892.6	3.2	B2/1000		
BM (30°-60°)	2140.3	7.6	B2/2500		
BH (60°-80°)	1076.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.8	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9
2.5°	3544.0	3534.3	3547.8	3542.0	3538.2	3530.4	3526.6	3522.7	3515.0	3509.2
5°	3553.6	3547.8	3561.3	3572.9	3584.5	3596.1	3601.9	3609.6	3601.9	3586.4
7.5°	3472.5	3468.7	3497.6	3532.4	3584.5	3628.9	3677.1	3704.2	3706.1	3700.3
10°	3466.7	3457.1	3486.1	3528.5	3596.1	3675.2	3760.1	3818.1	3825.8	3850.9
12.5°	3557.5	3547.8	3588.4	3634.7	3704.2	3787.2	3891.4	3972.5	3984.1	4018.8
15°	3710.0	3696.4	3742.8	3802.6	3891.4	3986.0	4096.0	4169.4	4179.0	4221.5
17.5°	3887.5	3874.0	3928.1	3991.8	4088.3	4217.6	4345.0	4426.1	4437.7	4464.7
20°	4115.3	4097.9	4140.4	4198.3	4300.6	4455.0	4607.5	4723.3	4721.4	4721.4
22.5°	4379.8	4352.7	4389.4	4435.7	4532.3	4719.5	4922.2	5059.2	5059.2	5005.2
25°	4663.5	4636.5	4677.0	4719.5	4804.4	5016.7	5254.2	5424.0	5431.8	5339.1
27.5°	5018.7	4983.9	5014.8	5065.0	5115.2	5331.4	5613.2	5810.1	5813.9	5671.1
30°	5702.0	5603.5	5507.0	5453.0	5476.1	5690.4	5991.5	6209.6	6229.0	6032.1
32.5°	6952.8	6933.5	6593.8	6149.8	5918.2	6076.5	6414.3	6676.8	6688.4	6435.5
35°	8896.6	8873.4	8327.1	7481.7	6727.0	6593.8	6927.7	7238.5	7230.8	6945.1
37.5°	11216.7	11195.5	10475.5	9344.4	8122.5	7375.5	7589.8	7916.0	7964.3	7589.8
40°	13199.1	13120.0	12664.4	11573.8	9975.6	8672.7	8531.8	8747.9	8798.1	8354.2
42.5°	14700.9	14633.3	14401.7	13720.3	12218.5	10591.3	9641.7	9724.7	9780.6	9247.9
45°	15478.8	15463.3	15556.0	15492.3	14504.0	12946.3	11228.3	10882.8	10904.0	10238.1
47.5°	15588.8	15581.1	16003.8	16602.2	16469.0	15602.3	13264.8	12326.6	12251.4	11355.7
50°	14940.2	14924.8	15735.5	16857.0	17781.6	17833.7	15577.2	13953.9	13787.9	12511.9
52.5°	12869.0	12865.2	14197.1	16063.6	18242.9	19787.1	17862.6	15741.3	15463.3	13735.7
55°	9902.2	9973.7	11500.5	13706.8	17401.3	20727.1	19914.5	17725.6	17299.0	14967.2
57.5°	7014.6	7118.8	8628.3	10593.3	14791.6	20171.2	21302.4	19713.8	19254.3	16194.9
60°	3767.9	3860.5	5371.9	7717.2	11004.4	18098.1	22033.9	21439.4	21005.1	17360.8
62.5°	2244.9	2275.8	2901.2	4982.0	7443.1	13826.5	21723.2	22753.9	22396.8	18339.4
65°	1611.8	1617.6	1932.2	3042.1	4518.7	8400.5	19543.9	23383.2	23273.2	19076.8
67.5°	1357.0	1353.1	1484.4	2021.0	3078.8	4208.0	14978.8	22493.3	22960.4	19543.9
70°	1163.9	1169.7	1324.2	1480.5	2314.4	2381.9	7446.9	19584.4	20580.4	19667.4
72.5°	866.7	886.0	1028.8	1349.3	1746.9	1638.8	2571.1	14521.3	16322.3	18530.5
75°	611.9	621.5	723.8	1135.0	1302.9	1192.9	1312.6	7506.8	9815.4	14206.7
77.5°	471.0	488.4	548.2	793.3	1283.6	837.7	803.0	2598.1	3991.8	8581.9
80°	254.8	285.7	395.7	573.3	901.4	592.6	397.6	1034.6	1353.1	4013.0
82.5°	131.3	146.7	276.0	413.1	513.4	517.3	196.9	430.4	557.8	1239.2
85°	52.1	63.7	185.3	227.8	264.4	254.8	88.8	173.7	200.7	343.6
87.5°	11.6	19.3	67.6	52.1	50.2	54.0	21.2	40.5	38.6	40.5
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°
3462.9	0°	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9
3486.1	2.5°	3484.1	3476.4	3455.2	3432.0	3405.0	3389.5	3379.9	3378.0	3364.4	3354.8
3563.3	5°	3542.0	3534.3	3493.8	3445.5	3393.4	3352.9	3314.3	3279.5	3229.3	3219.7
3675.2	7.5°	3657.8	3636.6	3571.0	3505.4	3406.9	3289.2	3146.3	2982.3	2835.6	2791.2
3823.8	10°	3800.7	3771.7	3688.7	3572.9	3354.8	3034.4	2688.9	2368.4	2113.6	2042.2
3999.5	12.5°	3962.8	3937.7	3827.7	3613.4	3136.7	2555.7	2026.8	1629.1	1382.1	1320.3
4186.7	15°	4155.9	4119.2	3966.7	3551.7	2746.8	1941.8	1391.7	1156.2	1067.4	1055.9
4401.0	17.5°	4360.5	4300.6	4090.2	3329.7	2221.7	1380.1	1075.2	1007.6	969.0	957.4
4617.2	20°	4547.7	4470.5	4163.6	2993.8	1660.0	1075.2	963.2	918.8	884.1	870.5
4833.4	22.5°	4734.9	4624.9	4163.6	2536.4	1245.0	953.5	884.1	843.5	803.0	785.6
5065.0	25°	4929.9	4783.2	4090.2	2026.8	1001.8	874.4	808.8	764.4	729.6	708.4
5285.1	27.5°	5119.1	4916.4	3922.3	1544.2	891.8	804.9	739.3	696.8	664.0	648.6
5524.4	30°	5298.6	5047.6	3686.8	1171.7	820.4	737.4	675.6	638.9	606.1	590.7
5835.2	32.5°	5541.8	5213.6	3435.9	961.3	758.6	673.7	617.7	582.9	554.0	542.4
6238.6	35°	5879.6	5458.8	3219.7	943.9	706.5	621.5	565.6	532.8	503.8	494.1
6759.8	37.5°	6358.3	5854.5	3105.8	1059.7	664.0	575.2	523.1	488.4	461.3	453.6
7421.9	40°	6948.9	6391.1	3167.6	1175.5	635.1	534.7	484.5	449.8	426.6	416.9
8182.4	42.5°	7649.6	7053.2	3509.2	1264.3	615.8	499.9	447.8	409.2	393.8	389.9
9045.2	45°	8454.5	7780.9	4032.3	1358.9	584.9	467.1	411.1	382.2	370.6	368.7
9983.3	47.5°	9369.5	8580.0	4638.4	1476.6	554.0	436.2	382.2	362.9	353.2	349.4
10961.9	50°	10276.7	9384.9	5261.9	1542.3	528.9	407.3	359.0	343.6	335.9	333.9
11996.6	52.5°	11226.4	10213.0	5765.7	1480.5	507.7	384.1	339.7	328.1	320.4	318.5
12950.1	55°	12131.7	10882.8	5852.5	1256.6	465.2	361.0	318.5	312.7	303.1	303.1
13917.2	57.5°	12911.5	11218.7	5238.7	922.7	422.7	326.2	297.3	291.5	283.7	281.8
14789.7	60°	13627.6	11122.2	4043.9	621.5	376.4	291.5	270.2	266.4	258.7	249.0
15548.2	62.5°	14031.1	10697.5	2766.1	405.4	330.1	254.8	239.4	237.4	220.0	200.7
16110.0	65°	14183.6	9825.0	1725.7	295.3	276.0	218.1	206.5	202.7	177.6	156.4
16428.4	67.5°	14050.4	8388.9	870.5	233.6	218.1	181.4	169.9	169.9	152.5	133.2
16409.1	70°	13517.6	6288.8	366.7	187.2	167.9	139.0	139.0	146.7	129.3	108.1
15557.9	72.5°	12361.4	4231.1	195.0	142.8	125.5	98.4	113.9	119.7	102.3	81.1
12733.9	75°	9827.0	2580.8	135.1	106.2	79.1	69.5	86.9	90.7	69.5	54.0
8730.6	77.5°	6721.2	1482.4	90.7	67.6	50.2	40.5	59.8	56.0	36.7	25.1
3366.4	80°	2951.4	617.7	52.1	30.9	19.3	15.4	21.2	15.4	11.6	7.7
461.3	82.5°	345.5	144.8	19.3	11.6	7.7	3.9	1.9	0.0	0.0	0.0
140.9	85°	71.4	17.4	9.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0
25.1	87.5°	13.5	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
3462.9
3364.4
3215.8
2769.9
2015.2
1302.9
1044.3
951.6
862.8
776.0
700.7
648.6
592.6
542.4
494.1
451.7
415.0
389.9
366.7
349.4
333.9
318.5
301.1
279.9
247.1
196.9
154.4
131.3
106.2
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