

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: P944206

Luminaire Tested: **GALN-SB9A-750-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9A-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

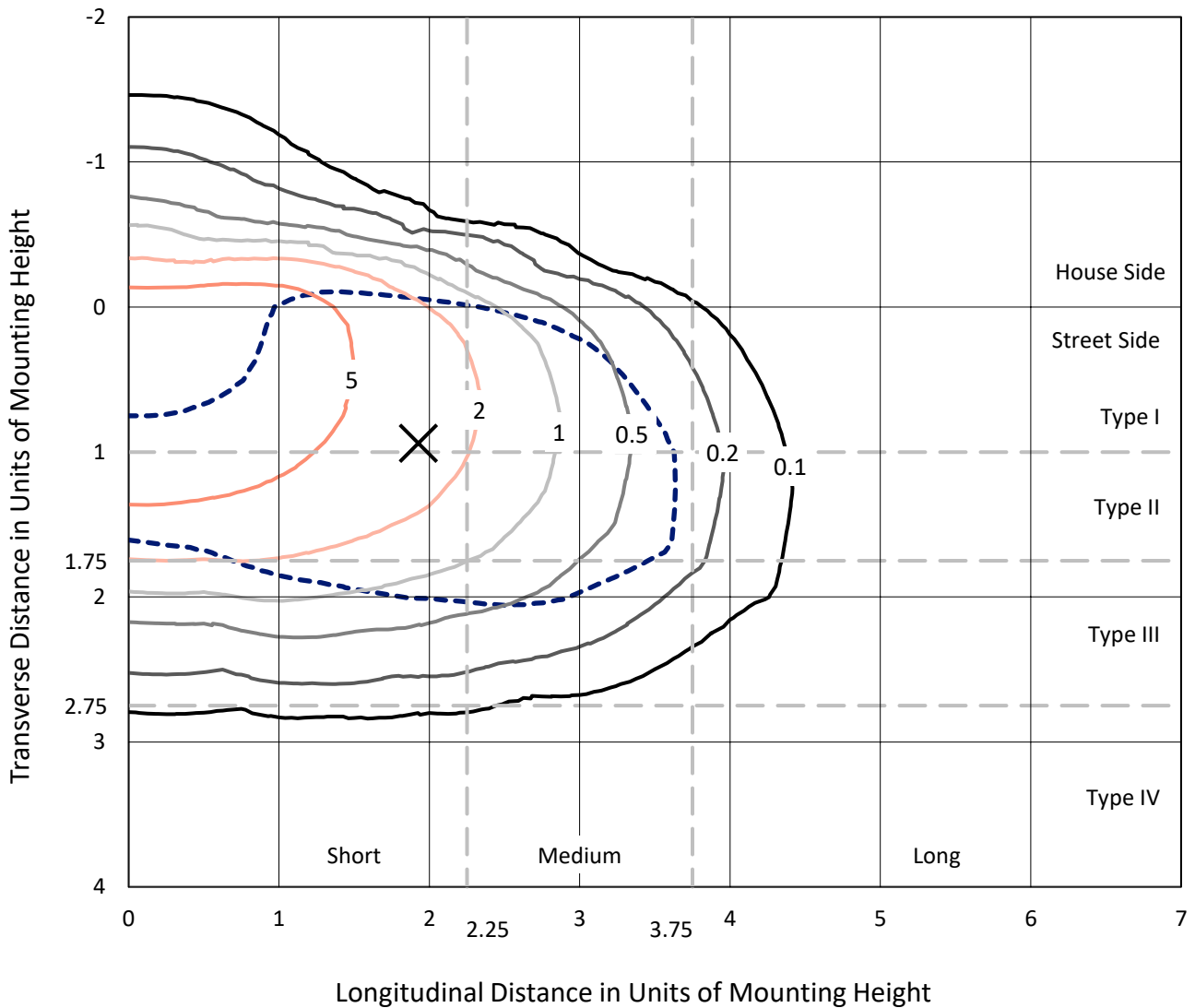
Lumens per Lamp: N/A  
Luminaire Lumens: 33901 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

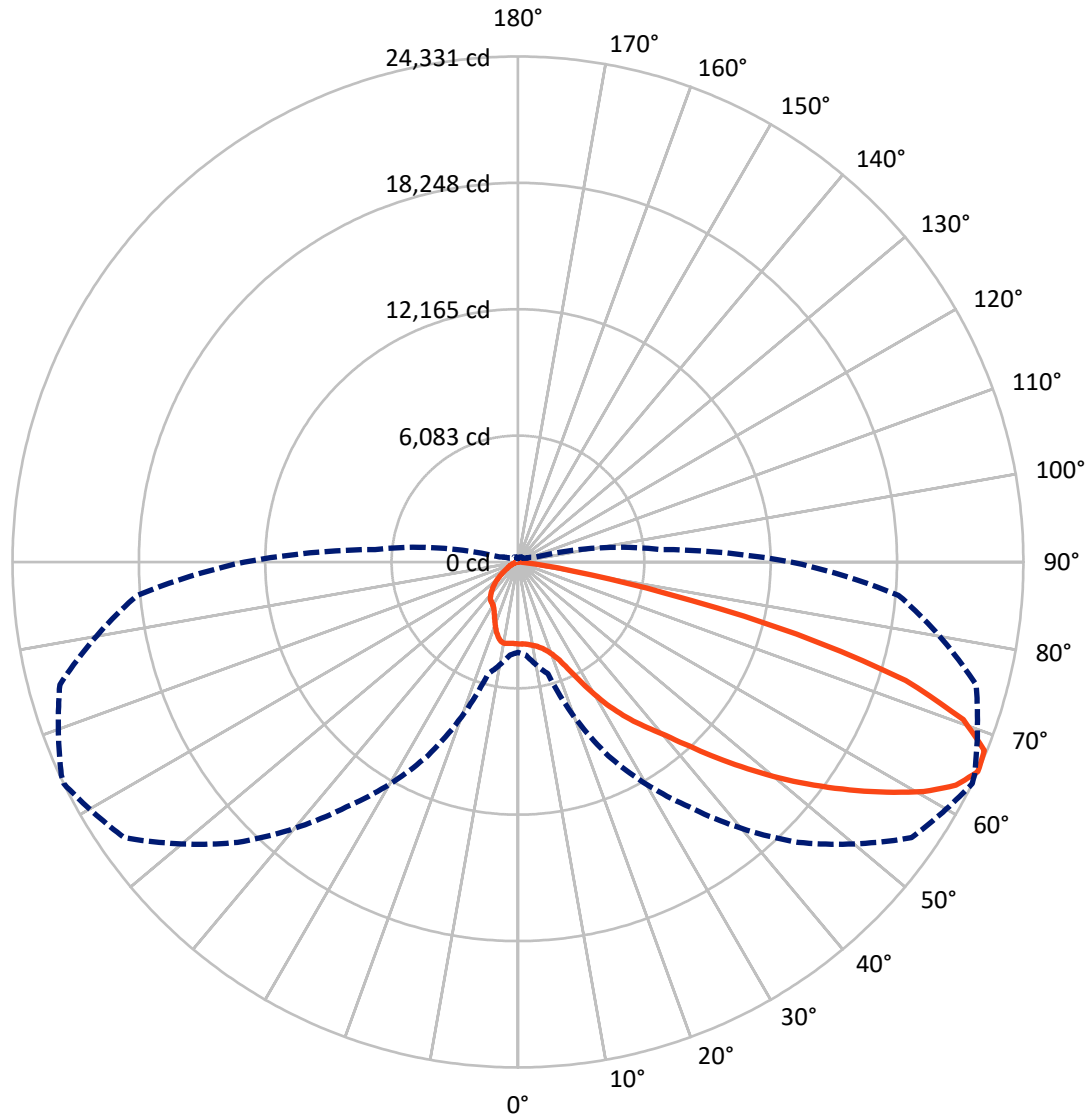
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4533.6	0.0	4533.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	29367.4	0.0	29367.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	33901.0	0.0	33901.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.8	1.1
10°-20°	986.7	2.9
20°-30°	1869.7	5.5
30°-40°	3783.4	11.2
40°-50°	6445.0	19.0
50°-60°	8764.7	25.9
60°-70°	8230.5	24.3
70°-80°	3297.5	9.7
80°-90°	159.8	0.5
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°	33901.0	100.0
0°-180°	33901.0	100.0

**Coefficient of Utilization**



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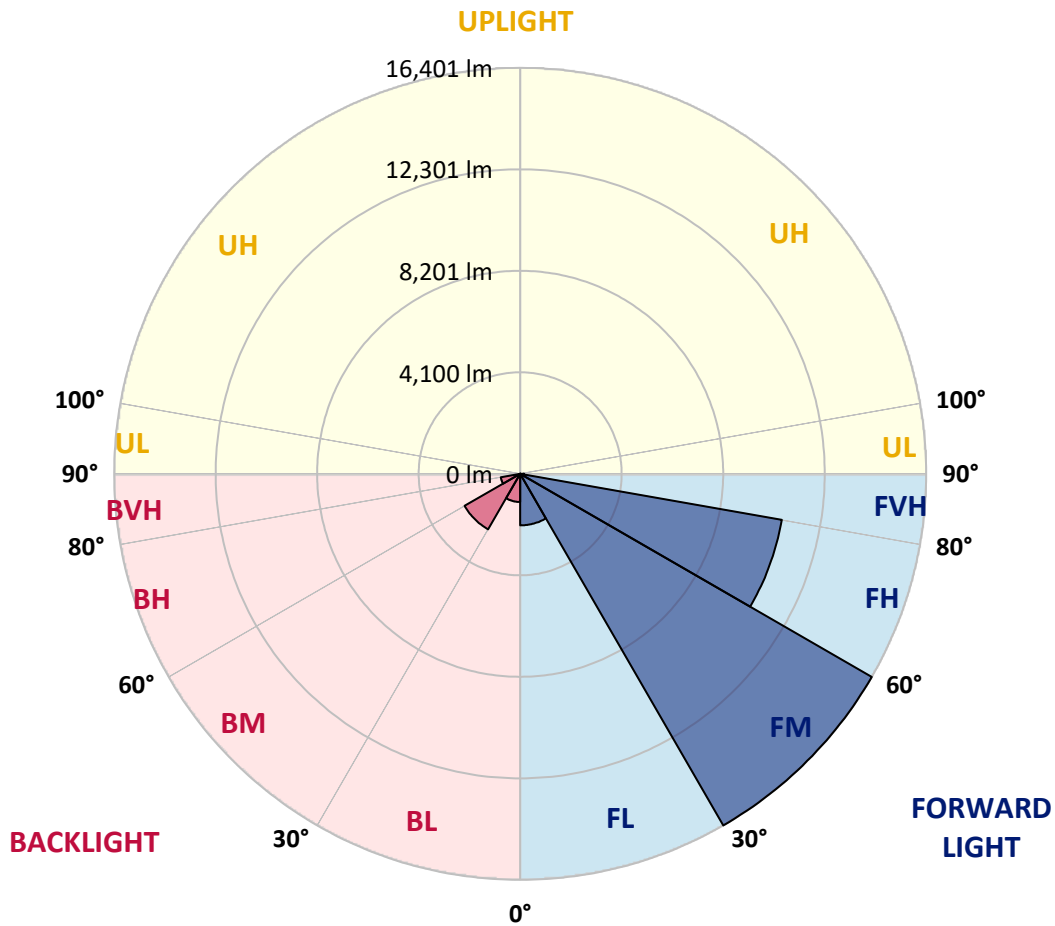
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2081.9	6.1			
FM (30°-60°)	16401.3	48.4			
FH (60°-80°)	10732.3	31.7			G4/12000
FVH (80°-90°)	152.0	0.4			G2/225
BL (0°-30°)	1138.3	3.4	B3/2500		
BM (30°-60°)	2591.8	7.6	B3/5000		
BH (60°-80°)	795.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.8	0.0			G0/10
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0
2.5°	3929.4	3956.7	3949.9	3943.0	3940.8	3945.3	3947.6	3945.3	3945.3	3945.3
5°	3854.4	3877.1	3877.1	3893.0	3915.8	3943.0	3963.5	3968.0	3972.6	3979.4
7.5°	3711.2	3729.4	3743.0	3795.3	3852.1	3924.9	3986.2	4018.0	4022.6	4047.6
10°	3613.5	3636.2	3659.0	3713.5	3795.3	3904.4	4008.9	4086.2	4097.6	4156.7
12.5°	3609.0	3631.7	3661.2	3720.3	3815.8	3931.7	4058.9	4170.3	4190.8	4277.1
15°	3656.7	3684.0	3711.2	3784.0	3886.2	4027.1	4163.5	4302.1	4322.6	4445.3
17.5°	3754.4	3790.8	3811.2	3883.9	3993.0	4149.8	4329.4	4488.5	4506.7	4649.8
20°	3947.6	3990.8	3997.6	4056.7	4163.5	4331.7	4545.3	4743.0	4765.7	4929.4
22.5°	4347.6	4408.9	4354.4	4383.9	4479.4	4647.6	4879.4	5129.4	5161.2	5347.5
25°	5052.1	5138.4	4997.5	4947.5	4988.5	5163.4	5454.3	5770.2	5806.6	5956.6
27.5°	6436.1	6324.8	6111.1	5902.1	5779.3	5879.3	6206.6	6597.5	6642.9	6788.4
30°	7956.5	7858.8	7570.2	7106.6	6815.7	6799.8	7102.0	7538.4	7590.6	7729.3
32.5°	9479.2	9386.0	9072.4	8502.0	7997.4	7747.4	7956.5	8440.6	8467.9	8556.5
35°	10976.9	10881.4	10567.8	9983.7	9363.3	8795.1	8754.2	9299.7	9308.8	9401.9
37.5°	12483.6	12404.1	12070.0	11497.3	10886.0	10101.9	9722.4	10113.3	10124.6	10215.5
40°	13558.6	13592.7	13363.2	12920.0	12395.0	11538.2	10808.7	10979.1	10911.0	11063.2
42.5°	14481.3	14549.5	14349.5	14126.8	13822.2	13067.7	12154.1	12124.6	12015.5	12097.3
45°	15279.0	15335.8	15156.3	15104.0	15097.2	14567.7	13624.5	13447.2	13295.0	13279.1
47.5°	15572.2	15681.2	15758.5	15933.5	16274.4	16051.7	15144.9	14869.9	14699.5	14574.5
50°	15683.5	15799.4	16063.1	16572.1	17378.9	17474.4	16658.5	16349.4	16140.3	15913.1
52.5°	15533.5	15740.3	16094.9	16951.7	18122.1	18615.2	18110.7	17840.3	17601.6	17231.2
55°	14649.5	14856.3	15581.3	16947.1	18492.5	19415.2	19483.4	19362.9	19094.8	18510.7
57.5°	12785.9	13092.7	14240.4	16369.9	18485.7	20103.8	20828.8	20915.1	20615.2	19778.8
60°	10204.2	10620.1	12020.0	15090.4	17915.3	20476.5	22008.3	22440.1	22121.9	21028.8
62.5°	7120.2	7602.0	8926.9	13085.9	16610.8	20208.4	22869.6	23667.3	23426.4	22146.9
65°	4343.0	4497.6	5565.7	10297.4	14392.7	19085.7	23135.5	24330.9	24251.4	22831.0
67.5°	2893.1	3022.6	3329.4	7061.1	11172.3	16842.6	22499.2	24215.0	24237.8	22719.6
70°	1743.1	1854.5	2054.5	4106.7	7240.6	13331.3	20528.8	22737.8	22869.6	21231.0
72.5°	718.2	793.2	975.0	1861.3	3749.9	8461.1	16347.1	19522.0	19828.8	17851.6
75°	406.8	445.4	572.7	934.1	1627.2	3943.0	9901.9	13858.6	14310.8	12304.1
77.5°	270.4	288.6	370.4	604.5	915.9	1345.4	4231.7	7220.2	8083.8	6720.2
80°	181.8	197.7	254.5	404.5	595.4	577.3	1347.7	2674.9	3290.8	2309.0
82.5°	122.7	125.0	181.8	265.9	377.3	279.5	397.7	831.8	1045.4	668.2
85°	70.5	68.2	134.1	154.5	168.2	115.9	120.5	250.0	327.3	281.8
87.5°	9.1	13.6	52.3	40.9	22.7	25.0	25.0	43.2	63.6	68.2
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°
3943.0	0°	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0
3947.6	2.5°	3947.6	3945.3	3938.5	3931.7	3915.8	3906.7	3911.2	3906.7	3904.4	3906.7
3977.1	5°	3977.1	3970.3	3952.1	3929.4	3897.6	3859.0	3834.0	3797.6	3763.5	3743.0
4056.7	7.5°	4056.7	4049.9	4024.9	3961.2	3859.0	3697.6	3549.9	3420.3	3322.6	3265.8
4183.9	10°	4183.9	4172.6	4133.9	3993.0	3724.9	3372.6	3079.4	2836.3	2677.2	2602.2
4333.9	12.5°	4333.9	4320.3	4252.1	3963.5	3470.3	2920.3	2515.8	2245.4	2097.7	2031.7
4506.7	15°	4511.2	4493.0	4358.9	3822.6	3099.9	2420.4	2049.9	1847.7	1752.2	1693.1
4727.1	17.5°	4731.6	4699.8	4438.5	3611.2	2697.6	2038.6	1763.6	1611.3	1527.2	1470.4
5015.7	20°	5018.0	4965.7	4502.1	3359.0	2327.2	1797.7	1570.4	1443.1	1379.5	1329.5
5424.8	22.5°	5418.0	5343.0	4579.4	3086.3	2065.8	1631.8	1427.2	1334.0	1281.8	1225.0
5995.2	25°	5913.4	5824.8	4674.8	2834.0	1886.3	1488.6	1322.7	1245.4	1184.0	1118.1
6742.9	27.5°	6606.6	6447.5	4788.5	2627.2	1731.8	1365.9	1227.2	1140.9	1070.4	1015.9
7590.6	30°	7379.3	7117.9	4888.5	2502.2	1590.9	1252.2	1102.2	1015.9	950.0	911.3
8352.0	32.5°	8111.1	7756.5	4954.4	2447.6	1463.6	1122.7	965.9	872.7	822.7	811.3
9097.4	35°	8802.0	8333.8	4947.5	2395.4	1350.0	993.1	831.8	736.3	697.7	704.5
9899.6	37.5°	9597.4	8949.7	4899.8	2313.6	1256.8	875.0	715.9	631.8	597.7	600.0
10874.6	40°	10522.3	9661.0	4870.3	2159.0	1154.5	765.9	620.4	552.3	527.3	518.2
11901.8	42.5°	11508.7	10349.6	4874.8	1984.0	1027.2	668.2	554.5	497.7	475.0	468.2
13045.0	45°	12499.5	11006.4	4881.6	1802.2	893.1	593.2	506.8	459.1	445.4	436.3
14204.0	47.5°	13431.3	11565.5	4754.4	1606.8	761.3	536.3	468.2	436.3	425.0	413.6
15367.6	50°	14299.5	11938.2	4447.6	1379.5	656.8	490.9	438.6	415.9	404.5	393.2
16422.1	52.5°	14974.5	11997.3	3940.8	1145.4	584.1	456.8	420.4	400.0	386.3	375.0
17274.4	55°	15274.4	11626.8	3220.3	927.2	527.3	427.3	402.3	381.8	365.9	354.5
17944.8	57.5°	15197.2	10847.3	2511.3	745.4	472.7	397.7	379.5	365.9	347.7	329.5
18488.0	60°	14817.6	9804.2	1893.1	620.4	422.7	365.9	354.5	343.2	318.2	290.9
18697.0	62.5°	14160.8	8492.9	1350.0	513.6	368.2	329.5	325.0	315.9	279.5	229.5
18388.0	65°	13156.3	6899.7	909.1	427.3	315.9	288.6	290.9	275.0	227.3	170.4
17256.2	67.5°	11688.2	5045.3	581.8	350.0	263.6	240.9	243.2	234.1	193.2	145.4
15110.8	70°	9817.8	3340.8	379.5	265.9	211.4	186.4	200.0	202.3	163.6	118.2
11597.3	72.5°	7197.5	1972.7	265.9	197.7	154.5	129.5	163.6	168.2	131.8	88.6
6977.0	75°	4102.1	936.3	200.0	143.2	95.5	90.9	127.3	127.3	90.9	59.1
3020.3	77.5°	1722.7	390.9	140.9	93.2	54.5	52.3	86.4	79.5	45.5	27.3
736.3	80°	497.7	175.0	75.0	45.5	22.7	20.5	34.1	25.0	11.4	4.5
279.5	82.5°	195.4	77.3	29.5	18.2	9.1	9.1	4.5	0.0	0.0	0.0
159.1	85°	115.9	31.8	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0
34.1	87.5°	29.5	6.8	4.5	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

<u>180°</u>
3943.0
3915.8
3747.6
3268.1
2595.4
2024.9
1695.4
1465.9
1320.4
1215.9
1111.3
1004.5
904.5
818.2
704.5
609.1
515.9
465.9
436.3
413.6
393.2
372.7
352.3
327.3
286.4
225.0
165.9
138.6
113.6
84.1
54.5
27.3
4.5
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