

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: P953583

Luminaire Tested: **GALN-SB7A-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23865 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

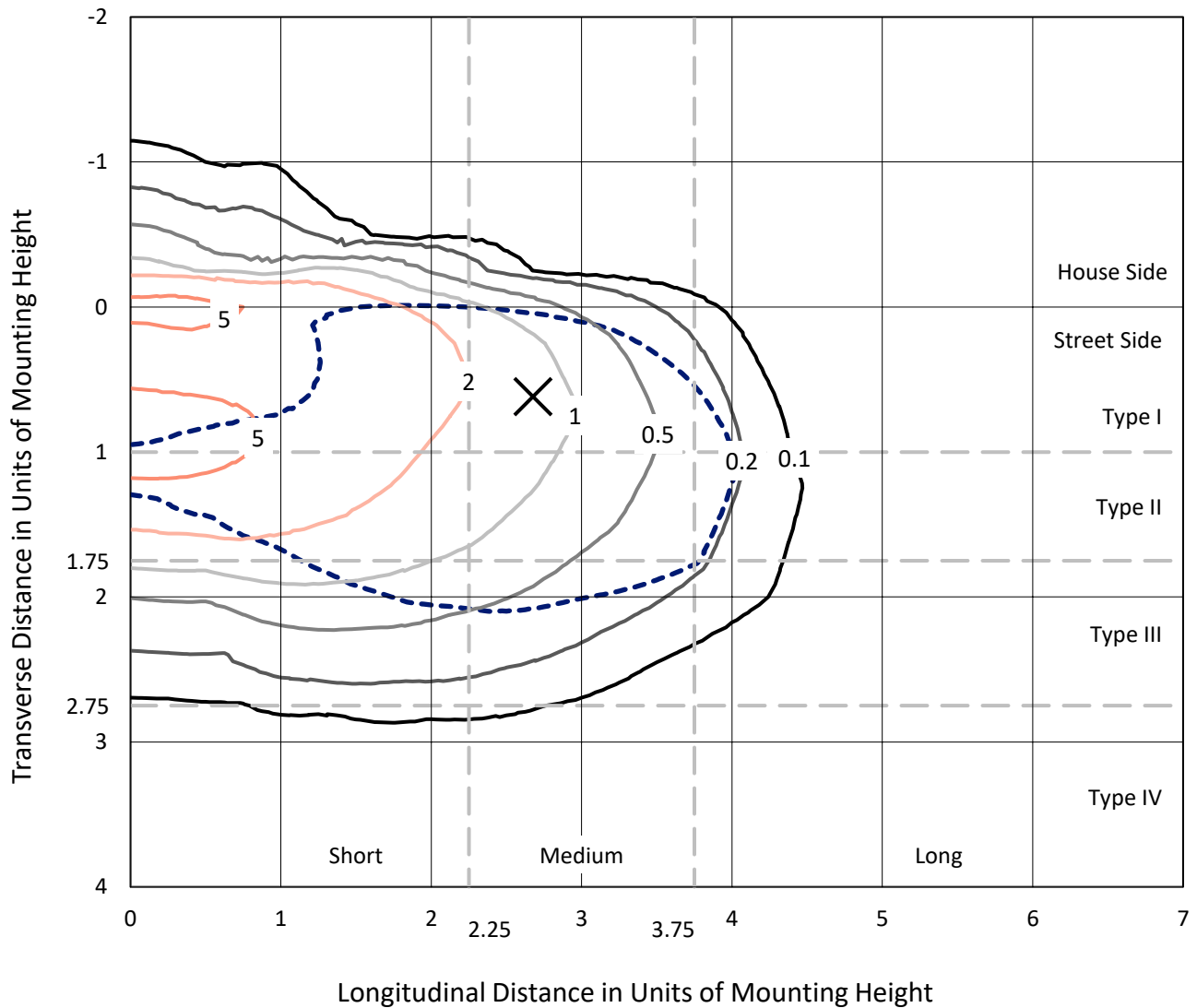
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

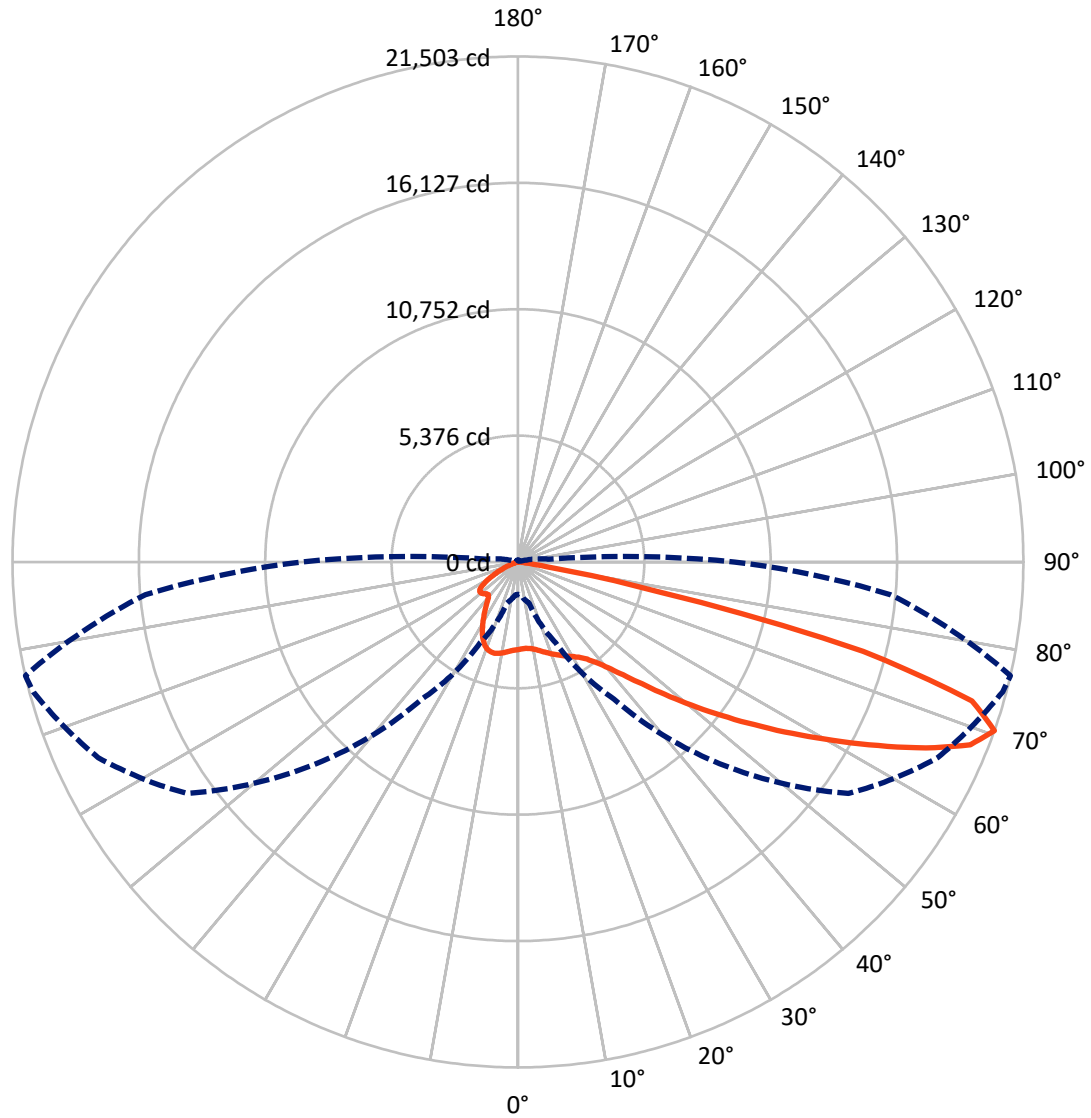
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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
House Side	Lumens	2515.7	0.0	2515.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21349.3	0.0	21349.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	23865.0	0.0	23865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.8	1.3
10°-20°	761.6	3.2
20°-30°	1178.0	4.9
30°-40°	2137.5	9.0
40°-50°	4034.8	16.9
50°-60°	5829.9	24.4
60°-70°	6205.8	26.0
70°-80°	3288.6	13.8
80°-90°	108.0	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°	23865.0	100.0
0°-180°	23865.0	100.0

Coefficient of Utilization



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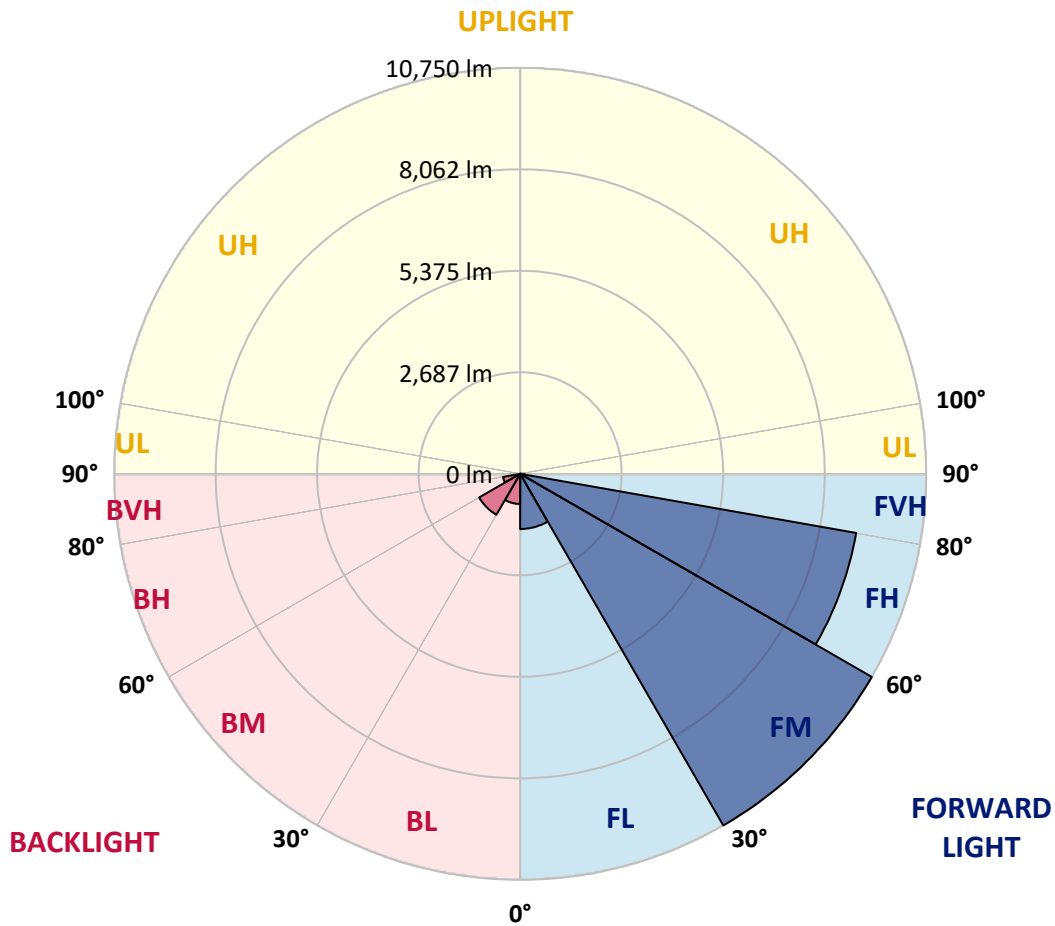
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.1	6.1			
FM (30°-60°)	10749.9	45.0			
FH (60°-80°)	9033.2	37.9			G4/12000
FVH (80°-90°)	105.1	0.4			G2/225
BL (0°-30°)	799.3	3.3	B2/1000		
BM (30°-60°)	1252.3	5.2	B2/2500		
BH (60°-80°)	461.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5
2.5°	3494.9	3526.6	3522.1	3543.2	3550.7	3580.8	3611.0	3651.7	3696.9	3695.4
5°	3297.5	3329.2	3336.7	3365.3	3401.5	3448.2	3510.0	3591.4	3675.8	3689.4
7.5°	3063.9	3097.1	3116.7	3173.9	3240.2	3336.7	3437.7	3556.7	3696.9	3716.5
10°	2830.3	2860.5	2886.1	2967.5	3073.0	3216.1	3380.4	3552.2	3740.6	3769.2
12.5°	2685.6	2714.3	2742.9	2813.7	2944.9	3119.7	3342.7	3573.3	3812.9	3853.6
15°	2634.4	2660.0	2682.6	2745.9	2868.0	3066.9	3335.2	3617.0	3904.9	3959.1
17.5°	2641.9	2655.5	2670.6	2718.8	2837.8	3042.8	3348.8	3692.4	4013.4	4061.6
20°	2685.6	2693.2	2694.7	2727.8	2833.3	3039.8	3375.9	3764.7	4115.9	4180.7
22.5°	2741.4	2744.4	2741.4	2764.0	2862.0	3062.4	3412.0	3852.1	4230.4	4290.7
25°	3002.1	2944.9	2872.5	2828.8	2910.2	3106.1	3466.3	3969.7	4355.5	4414.3
27.5°	3811.4	3647.2	3387.9	3097.1	3009.7	3169.4	3541.7	4088.7	4482.1	4534.8
30°	5125.6	4910.1	4470.0	3814.4	3329.2	3302.0	3639.6	4207.8	4616.2	4673.5
32.5°	6442.8	6390.1	5882.2	4974.9	4048.0	3597.4	3802.4	4369.1	4794.0	4839.3
35°	7775.1	7668.1	7252.1	6355.4	5155.8	4198.7	4073.7	4580.0	5027.6	5078.9
37.5°	8795.4	8730.6	8472.9	7734.4	6469.9	5127.1	4537.8	4907.1	5366.7	5424.0
40°	9696.6	9666.5	9579.1	9092.3	7939.3	6341.8	5259.7	5413.5	5837.0	5904.8
42.5°	10404.9	10475.8	10525.5	10389.9	9454.0	7728.4	6230.3	6124.8	6492.5	6561.9
45°	11129.8	11154.0	11354.4	11550.3	10958.0	9178.2	7324.5	6958.2	7307.9	7393.8
47.5°	11595.5	11692.0	12044.7	12389.8	12222.5	10615.9	8500.0	7942.4	8252.8	8414.1
50°	11630.2	11812.6	12297.8	12899.2	13143.3	11984.4	9778.0	9063.6	9393.7	9571.5
52.5°	11053.0	11336.3	12088.4	12968.5	13640.7	13143.3	11099.7	10184.9	10608.4	10840.5
55°	8474.4	8845.1	11300.2	12591.7	13660.3	14022.0	12386.8	11352.9	11961.8	12224.0
57.5°	7383.2	7570.1	8884.3	11937.6	13297.0	14376.1	13550.2	12465.1	13434.2	13759.7
60°	6142.9	6388.5	7451.0	10867.6	12804.2	14410.8	14578.1	13899.9	15030.2	15396.4
62.5°	4174.6	4441.4	5497.9	9029.0	12130.6	14394.2	15420.5	15376.8	16804.0	17197.4
65°	2586.2	2753.5	3449.7	7372.7	11188.6	14412.3	16302.2	17170.3	18675.8	19075.2
67.5°	2043.6	2120.5	2483.7	5660.6	9565.5	14005.4	17182.3	18856.7	20437.6	20754.1
70°	1373.0	1419.7	1807.0	3794.8	7116.5	12127.5	17165.7	19703.7	21344.9	21503.1
72.5°	723.4	759.6	1056.5	1757.3	4298.2	8620.5	14469.6	18690.9	20442.2	20204.0
75°	361.7	422.0	711.3	892.2	1835.6	4807.6	8985.3	14736.3	16089.7	15167.3
77.5°	274.3	331.6	587.8	587.8	639.0	1618.6	3805.4	8037.3	7413.4	6173.0
80°	174.8	226.1	513.9	444.6	266.8	411.4	991.7	2251.6	1574.9	1198.1
82.5°	102.5	147.7	428.0	293.9	149.2	152.2	280.3	479.3	408.4	318.0
85°	40.7	96.5	293.9	116.0	58.8	37.7	84.4	102.5	84.4	63.3
87.5°	0.0	22.6	51.2	0.0	4.5	3.0	6.0	7.5	7.5	6.0
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°
3722.5	0°	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5	3722.5
3725.5	2.5°	3739.1	3742.1	3751.1	3752.7	3731.6	3704.4	3693.9	3689.4	3671.3	3669.8
3749.6	5°	3784.3	3797.9	3784.3	3745.1	3651.7	3520.6	3421.1	3339.7	3265.9	3243.3
3832.5	7.5°	3874.7	3888.3	3847.6	3693.9	3458.8	3198.0	2962.9	2797.2	2648.0	2592.2
3933.5	10°	4004.3	4022.4	3894.3	3583.9	3167.9	2748.9	2351.1	2070.7	1852.2	1763.3
4070.6	12.5°	4167.1	4174.6	3919.9	3416.6	2789.6	2191.3	1627.7	1327.7	1133.3	1061.0
4236.4	15°	4346.4	4335.9	3923.0	3189.0	2274.2	1549.3	1062.5	872.6	794.2	770.1
4402.2	17.5°	4534.8	4491.1	3862.7	2860.5	1709.0	1059.5	788.2	743.0	729.4	723.4
4566.5	20°	4720.2	4622.2	3752.7	2430.9	1226.8	791.2	715.9	702.3	694.8	691.8
4732.3	22.5°	4889.0	4721.7	3564.3	1932.1	890.7	699.3	676.7	664.6	651.1	645.0
4893.5	25°	5053.3	4779.0	3299.0	1466.4	712.9	654.1	636.0	613.4	595.3	587.8
5066.8	27.5°	5213.0	4815.1	2967.5	1085.1	636.0	611.9	578.7	547.1	533.5	530.5
5252.2	30°	5383.3	4827.2	2590.7	809.3	589.3	559.1	510.9	474.7	467.2	468.7
5502.4	32.5°	5591.3	4845.3	2210.9	663.1	550.1	495.8	438.6	400.9	394.9	400.9
5867.1	35°	5840.0	4881.5	1844.7	610.4	515.4	431.0	369.2	337.6	331.6	336.1
6334.3	37.5°	6177.6	4940.2	1502.6	599.8	486.8	376.8	310.5	284.8	284.8	286.3
6907.0	40°	6626.7	5097.0	1196.6	592.3	471.7	336.1	262.2	251.7	256.2	259.2
7636.4	42.5°	7173.7	5430.0	990.2	583.2	455.1	318.0	238.1	233.6	241.1	244.1
8510.5	45°	7787.1	5852.0	917.8	568.2	440.1	330.1	227.6	221.5	230.6	232.1
9490.1	47.5°	8421.6	6265.0	908.8	551.6	425.0	348.1	224.6	211.0	221.5	223.0
10536.1	50°	9063.6	6534.7	917.8	526.0	400.9	348.1	226.1	200.4	209.5	214.0
11621.2	52.5°	9710.2	6658.3	911.8	470.2	358.7	327.0	226.1	191.4	200.4	203.5
12793.7	55°	10337.1	6634.2	819.9	387.3	304.4	289.4	220.0	183.9	189.9	191.4
13901.4	57.5°	10833.0	6298.1	649.6	301.4	247.2	241.1	200.4	174.8	179.3	177.8
14917.2	60°	11092.2	5559.7	464.2	232.1	194.4	189.9	176.3	162.8	165.8	158.2
15777.7	62.5°	11095.2	4583.1	310.5	183.9	155.2	150.7	150.7	146.2	143.2	128.1
16443.8	65°	10858.6	3499.5	206.5	146.2	125.1	117.6	126.6	125.1	114.5	93.4
16647.3	67.5°	10322.1	2293.8	156.7	114.5	96.5	91.9	101.0	105.5	98.0	78.4
15905.8	70°	9218.9	1335.3	129.6	88.9	72.3	67.8	81.4	90.4	81.4	63.3
13595.4	72.5°	7657.5	720.4	105.5	66.3	49.7	45.2	64.8	73.8	64.8	46.7
8723.0	75°	4968.9	385.8	81.4	43.7	25.6	28.6	48.2	54.3	45.2	30.1
2560.5	77.5°	1668.3	170.3	51.2	21.1	12.1	12.1	28.6	33.2	21.1	10.5
465.7	80°	372.3	70.8	21.1	9.0	4.5	4.5	6.0	6.0	3.0	0.0
143.2	82.5°	122.1	28.6	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
36.2	85°	46.7	10.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.1	87.5°	18.1	1.5	0.0	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°
3722.5
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