

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: P950536

Luminaire Tested: **GALN-SB4D-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950536
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-SB4D-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA 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: 21682 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

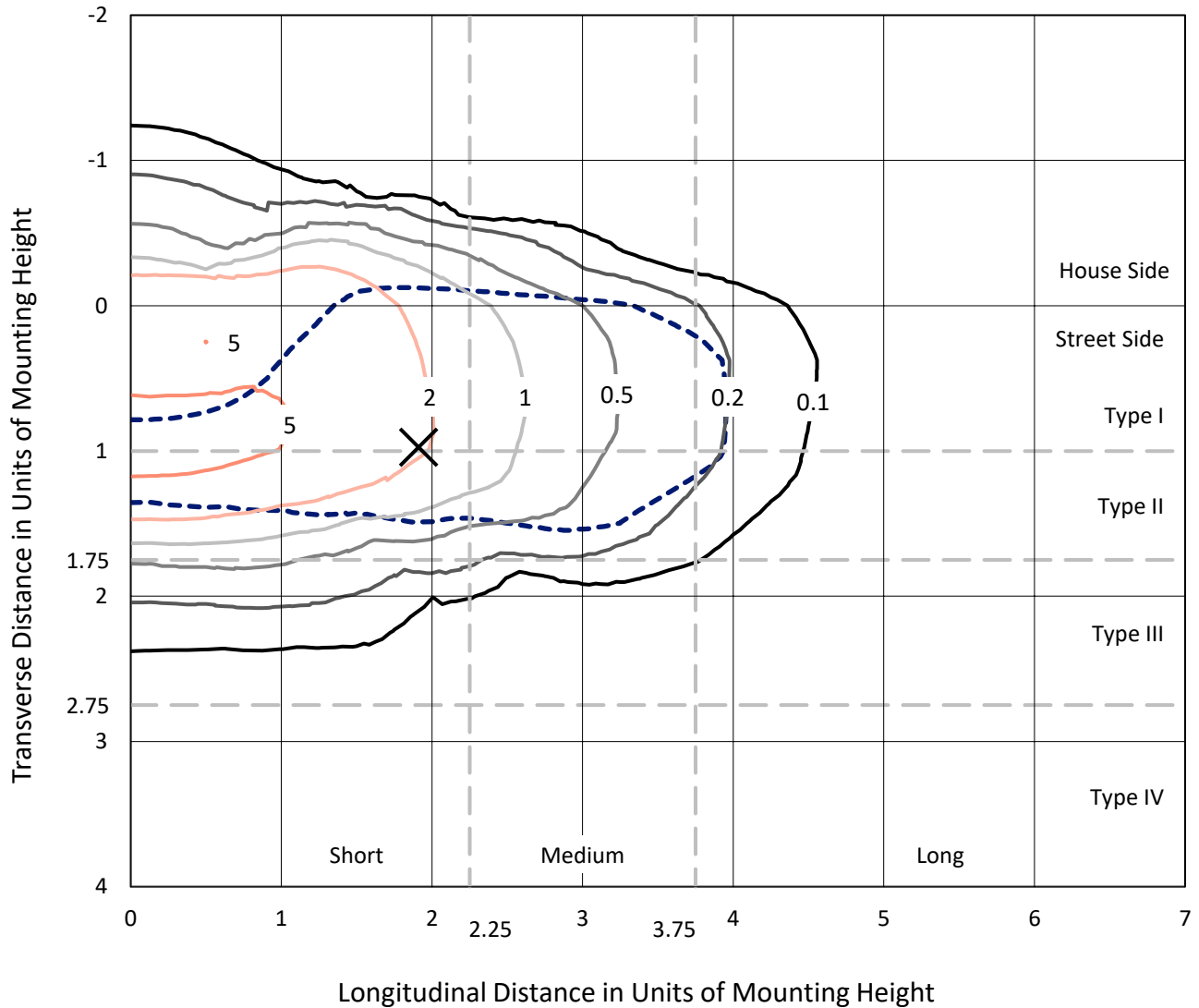
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

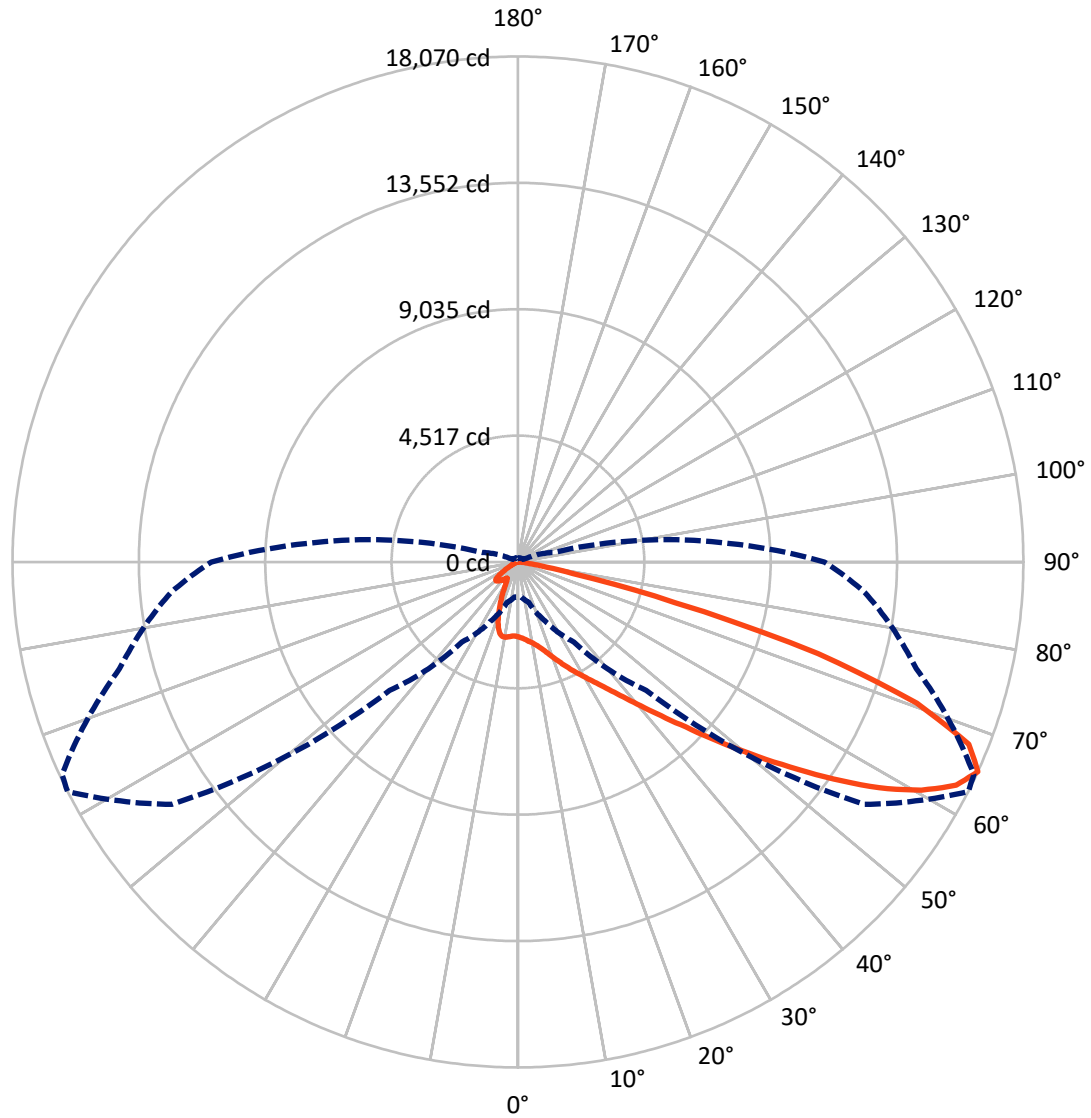
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type 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
House Side	Lumens	3187.1	0.0	3187.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18494.9	0.0	18494.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	21682.0	0.0	21682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	1.2
10°-20°	699.6	3.2
20°-30°	1218.1	5.6
30°-40°	2195.5	10.1
40°-50°	4354.4	20.1
50°-60°	5931.4	27.4
60°-70°	4734.4	21.8
70°-80°	2142.4	9.9
80°-90°	154.0	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°	21682.0	100.0
0°-180°	21682.0	100.0

Coefficient of Utilization



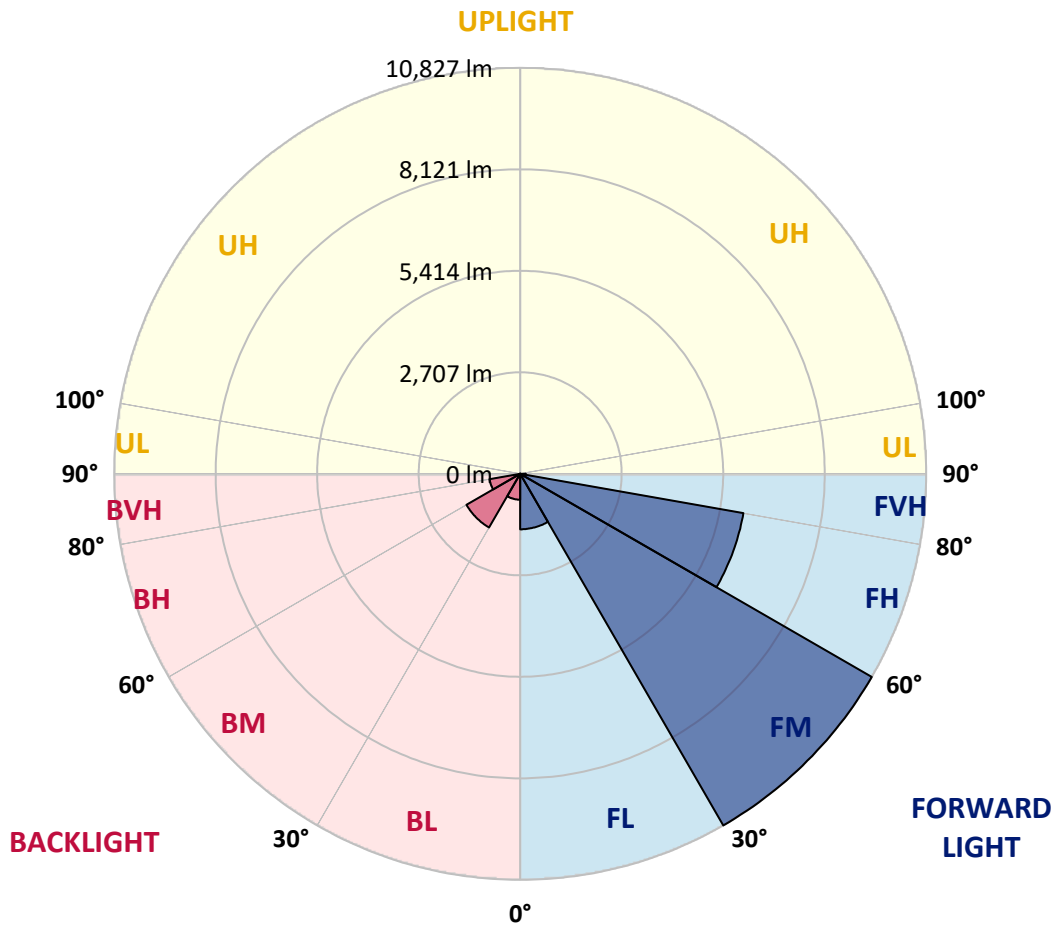
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.1	6.8			
FM	(30°-60°)	10827.4	49.9			
FH	(60°-80°)	6044.8	27.9			G3/7500
FVH	(80°-90°)	142.6	0.7			G2/225
BL	(0°-30°)	689.7	3.2	B2/1000		
BM	(30°-60°)	1653.9	7.6	B2/2500		
BH	(60°-80°)	832.0	3.8	B2/1000		G2/1000
BVH	(80°-90°)	11.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0
2.5°	2738.6	2731.2	2741.6	2737.1	2734.1	2728.2	2725.2	2722.2	2716.2	2711.8
5°	2746.1	2741.6	2752.0	2761.0	2769.9	2778.9	2783.4	2789.3	2783.4	2771.4
7.5°	2683.4	2680.4	2702.8	2729.7	2769.9	2804.2	2841.5	2862.4	2863.9	2859.4
10°	2679.0	2671.5	2693.9	2726.7	2778.9	2840.0	2905.7	2950.4	2956.4	2975.8
12.5°	2749.1	2741.6	2772.9	2808.7	2862.4	2926.6	3007.1	3069.8	3078.7	3105.6
15°	2866.9	2856.5	2892.3	2938.5	3007.1	3080.2	3165.2	3221.9	3229.4	3262.2
17.5°	3004.1	2993.7	3035.4	3084.7	3159.3	3259.2	3357.6	3420.3	3429.2	3450.1
20°	3180.1	3166.7	3199.5	3244.3	3323.3	3442.7	3560.5	3650.0	3648.5	3648.5
22.5°	3384.5	3363.6	3391.9	3427.7	3502.3	3647.0	3803.6	3909.5	3909.5	3867.8
25°	3603.8	3582.9	3614.2	3647.0	3712.6	3876.7	4060.2	4191.5	4197.4	4125.8
27.5°	3878.2	3851.4	3875.2	3914.0	3952.8	4119.9	4337.6	4489.8	4492.8	4382.4
30°	4406.2	4330.2	4255.6	4213.8	4231.7	4397.3	4630.0	4798.5	4813.5	4661.3
32.5°	5372.8	5357.9	5095.4	4752.3	4573.3	4695.6	4956.7	5159.5	5168.5	4973.1
35°	6874.9	6857.0	6434.9	5781.5	5198.3	5095.4	5353.4	5593.6	5587.6	5366.9
37.5°	8667.8	8651.4	8095.0	7220.9	6276.7	5699.5	5865.1	6117.1	6154.4	5865.1
40°	10199.7	10138.5	9786.5	8943.8	7708.7	6701.9	6593.0	6760.0	6798.8	6455.7
42.5°	11360.2	11308.0	11129.0	10602.4	9442.0	8184.5	7450.6	7514.8	7558.0	7146.4
45°	11961.3	11949.4	12021.0	11971.8	11208.0	10004.3	8676.8	8409.8	8426.2	7911.6
47.5°	12046.3	12040.4	12367.0	12829.4	12726.5	12056.8	10250.4	9525.5	9467.3	8775.2
50°	11545.1	11533.2	12159.7	13026.3	13740.8	13781.1	12037.4	10782.9	10654.7	9668.7
52.5°	9944.6	9941.7	10970.9	12413.3	14097.3	15290.6	13803.5	12164.2	11949.4	10614.4
55°	7652.0	7707.2	8887.1	10592.0	13447.0	16017.0	15389.1	13697.6	13367.9	11566.0
57.5°	5420.6	5501.1	6667.5	8186.0	11430.3	15587.4	16461.5	15233.9	14878.9	12514.7
60°	2911.6	2983.2	4151.2	5963.5	8503.7	13985.4	17026.9	16567.4	16231.8	13415.6
62.5°	1734.8	1758.6	2241.9	3849.9	5751.7	10684.5	16786.7	17583.2	17307.3	14171.9
65°	1245.5	1250.0	1493.1	2350.8	3491.9	6491.5	15102.7	18069.5	17984.5	14741.7
67.5°	1048.6	1045.6	1147.1	1561.7	2379.1	3251.7	11575.0	17381.9	17742.8	15102.7
70°	899.4	903.9	1023.3	1144.1	1788.5	1840.7	5754.7	15134.0	15903.7	15198.1
72.5°	669.7	684.7	795.0	1042.6	1349.9	1266.4	1986.8	11221.5	12613.1	14319.6
75°	472.8	480.3	559.4	877.1	1006.8	921.8	1014.3	5800.9	7584.9	10978.3
77.5°	364.0	377.4	423.6	613.1	991.9	647.4	620.5	2007.7	3084.7	6631.7
80°	196.9	220.8	305.8	443.0	696.6	457.9	307.3	799.5	1045.6	3101.1
82.5°	101.4	113.4	213.3	319.2	396.8	399.8	152.1	332.6	431.1	957.6
85°	40.3	49.2	143.2	176.0	204.4	196.9	68.6	134.2	155.1	265.5
87.5°	8.9	14.9	52.2	40.3	38.8	41.8	16.4	31.3	29.8	31.3
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°
2676.0	0°	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0
2693.9	2.5°	2692.4	2686.4	2670.0	2652.1	2631.2	2619.3	2611.8	2610.3	2599.9	2592.4
2753.5	5°	2737.1	2731.2	2699.8	2662.5	2622.3	2590.9	2561.1	2534.3	2495.5	2488.0
2840.0	7.5°	2826.6	2810.2	2759.5	2708.8	2632.7	2541.7	2431.3	2304.6	2191.2	2156.9
2954.9	10°	2937.0	2914.6	2850.5	2761.0	2592.4	2344.8	2077.8	1830.2	1633.3	1578.1
3090.6	12.5°	3062.3	3042.9	2957.9	2792.3	2423.9	1974.9	1566.2	1258.9	1068.0	1020.3
3235.3	15°	3211.5	3183.1	3065.3	2744.6	2122.6	1500.6	1075.5	893.5	824.9	815.9
3400.9	17.5°	3369.6	3323.3	3160.7	2573.0	1716.9	1066.5	830.8	778.6	748.8	739.8
3568.0	20°	3514.3	3454.6	3217.4	2313.5	1282.8	830.8	744.3	710.0	683.2	672.7
3735.0	22.5°	3658.9	3573.9	3217.4	1960.0	962.1	736.9	683.2	651.8	620.5	607.1
3914.0	25°	3809.6	3696.2	3160.7	1566.2	774.2	675.7	625.0	590.7	563.8	547.4
4084.1	27.5°	3955.8	3799.2	3031.0	1193.3	689.1	622.0	571.3	538.5	513.1	501.2
4269.0	30°	4094.5	3900.6	2849.0	905.4	633.9	569.8	522.1	493.7	468.4	456.4
4509.2	32.5°	4282.4	4028.9	2655.1	742.8	586.2	520.6	477.3	450.5	428.1	419.1
4820.9	35°	4543.5	4218.3	2488.0	729.4	545.9	480.3	437.0	411.7	389.3	381.9
5223.7	37.5°	4913.4	4524.1	2400.0	818.9	513.1	444.5	404.2	377.4	356.5	350.5
5735.3	40°	5369.8	4938.8	2447.8	908.4	490.7	413.2	374.4	347.5	329.6	322.2
6323.0	42.5°	5911.3	5450.4	2711.8	977.0	475.8	386.3	346.1	316.2	304.3	301.3
6989.7	45°	6533.3	6012.7	3116.0	1050.1	452.0	361.0	317.7	295.3	286.4	284.9
7714.7	47.5°	7240.3	6630.3	3584.4	1141.1	428.1	337.1	295.3	280.4	273.0	270.0
8470.9	50°	7941.4	7252.3	4066.2	1191.8	408.7	314.7	277.4	265.5	259.5	258.1
9270.4	52.5°	8675.3	7892.2	4455.5	1144.1	392.3	296.8	262.5	253.6	247.6	246.1
10007.3	55°	9374.8	8409.8	4522.6	971.0	359.5	278.9	246.1	241.6	234.2	234.2
10754.6	57.5°	9977.5	8669.3	4048.3	713.0	326.7	252.1	229.7	225.2	219.3	217.8
11428.8	60°	10530.8	8594.7	3124.9	480.3	290.9	225.2	208.8	205.8	199.9	192.4
12015.0	62.5°	10842.6	8266.6	2137.5	313.2	255.1	196.9	185.0	183.5	170.0	155.1
12449.1	65°	10960.4	7592.4	1333.5	228.2	213.3	168.6	159.6	156.6	137.2	120.8
12695.2	67.5°	10857.5	6482.6	672.7	180.5	168.6	140.2	131.3	131.3	117.8	102.9
12680.3	70°	10445.8	4859.7	283.4	144.7	129.8	107.4	107.4	113.4	99.9	83.5
12022.5	72.5°	9552.3	3269.6	150.7	110.4	97.0	76.1	88.0	92.5	79.1	62.6
9840.2	75°	7593.8	1994.3	104.4	82.0	61.2	53.7	67.1	70.1	53.7	41.8
6746.6	77.5°	5193.8	1145.6	70.1	52.2	38.8	31.3	46.2	43.3	28.3	19.4
2601.4	80°	2280.7	477.3	40.3	23.9	14.9	11.9	16.4	11.9	8.9	6.0
356.5	82.5°	267.0	111.9	14.9	8.9	6.0	3.0	1.5	0.0	0.0	0.0
108.9	85°	55.2	13.4	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
19.4	87.5°	10.4	3.0	1.5	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

180°
2676.0
2599.9
2485.0
2140.5
1557.3
1006.8
807.0
735.4
666.8
599.6
541.5
501.2
457.9
419.1
381.9
349.0
320.7
301.3
283.4
270.0
258.1
246.1
232.7
216.3
190.9
152.1
119.3
101.4
82.0
62.6
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