

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: P955177

Luminaire Tested: **GALN-SB8A-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955177
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-SB8A-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 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: 19284 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

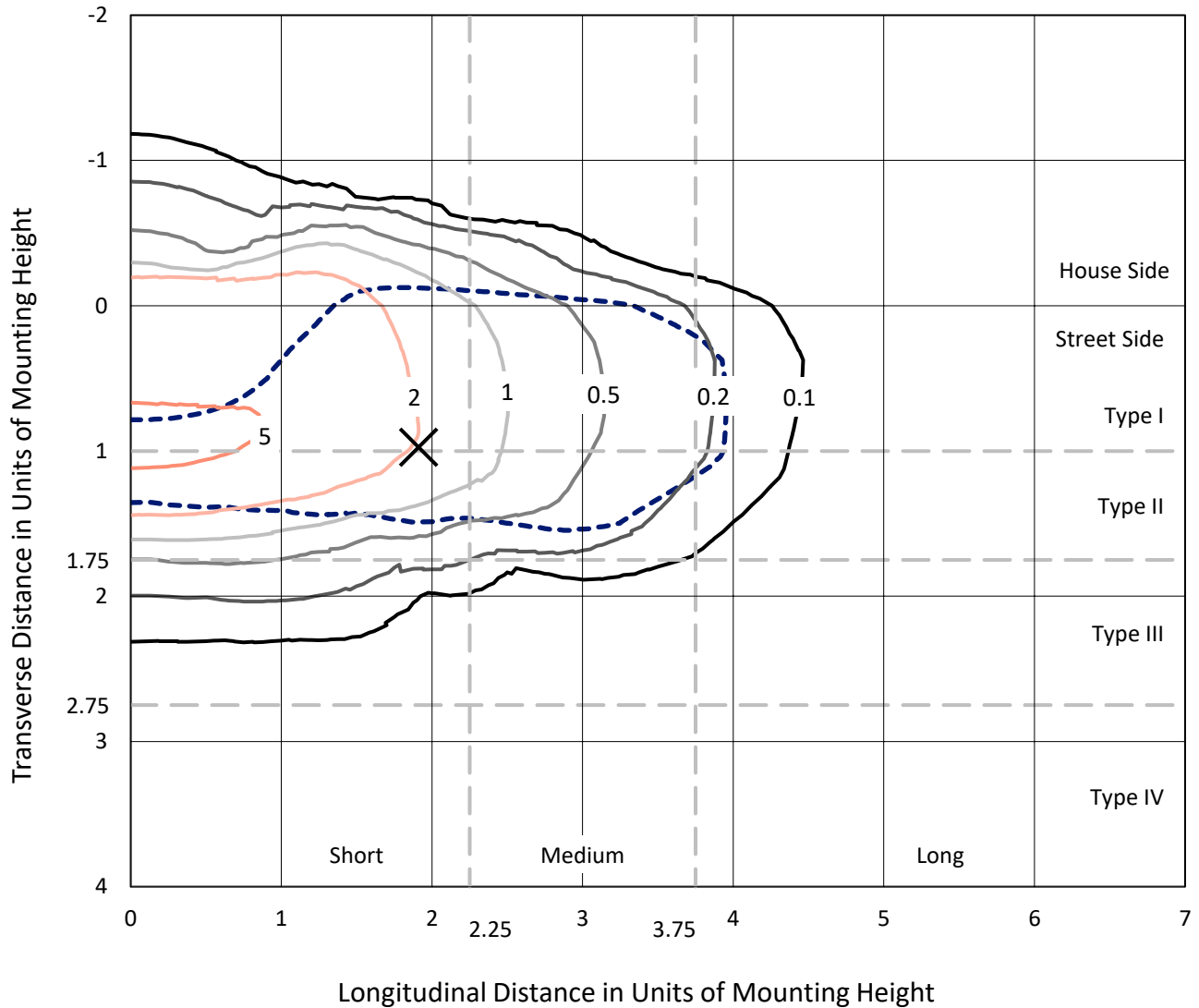
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

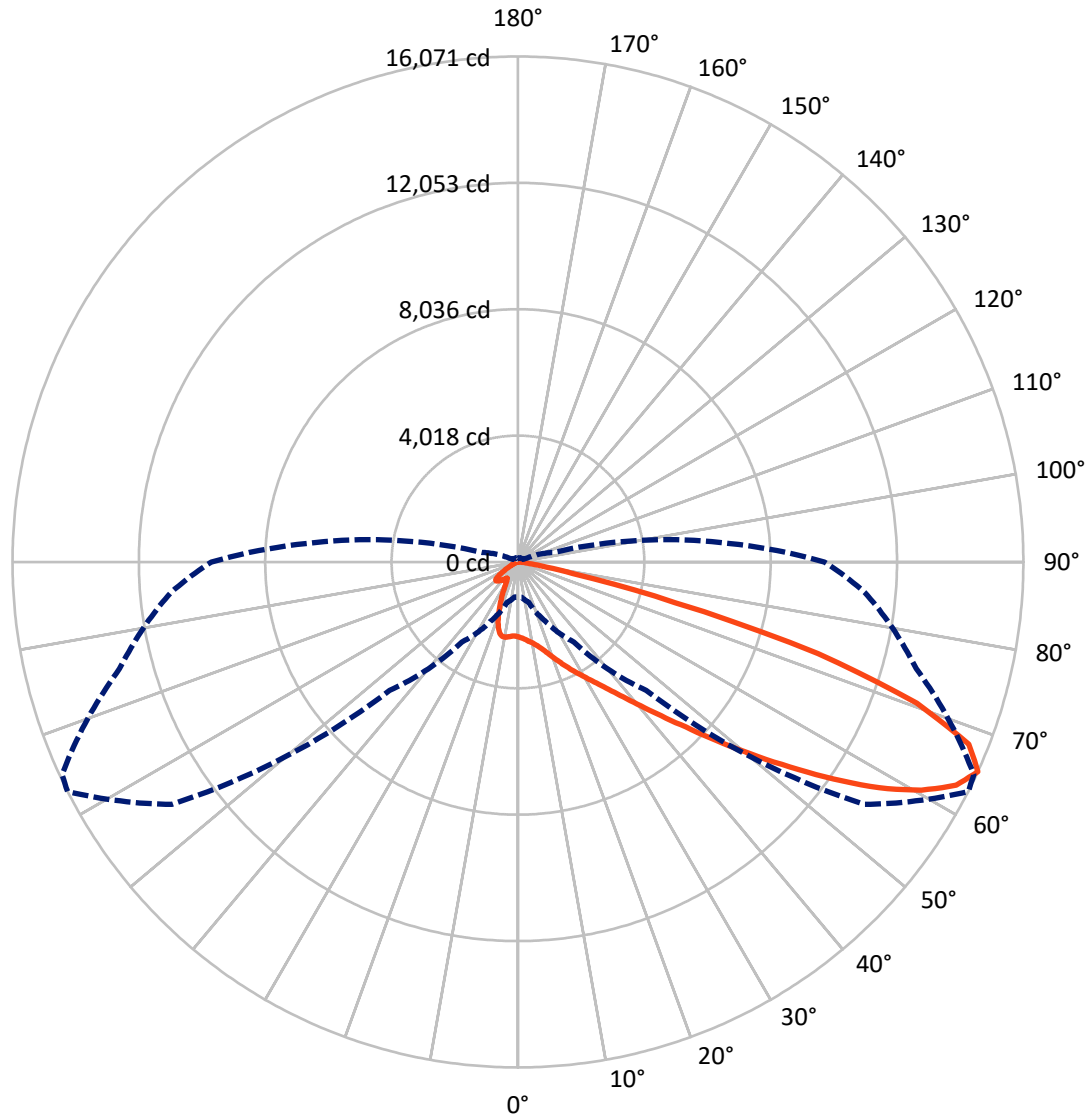
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
House Side	Lumens	2834.6	0.0	2834.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16449.4	0.0	16449.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	19284.0	0.0	19284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	1.2
10°-20°	622.2	3.2
20°-30°	1083.4	5.6
30°-40°	1952.7	10.1
40°-50°	3872.8	20.1
50°-60°	5275.4	27.4
60°-70°	4210.8	21.8
70°-80°	1905.5	9.9
80°-90°	137.0	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°	19284.0	100.0
0°-180°	19284.0	100.0

Coefficient of Utilization



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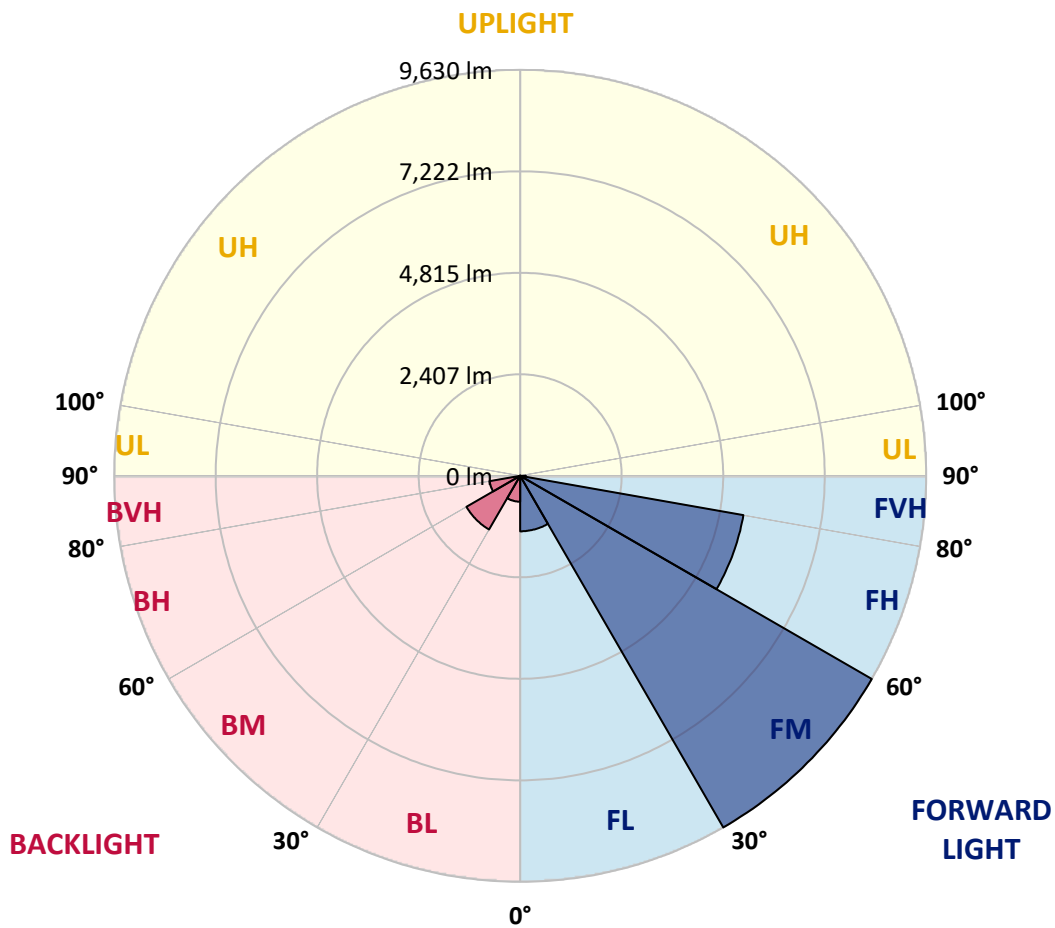
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.4	6.8			
FM (30°-60°)	9629.9	49.9			
FH (60°-80°)	5376.3	27.9			G3/7500
FVH (80°-90°)	126.8	0.7			G2/225
BL (0°-30°)	613.5	3.2	B2/1000		
BM (30°-60°)	1471.0	7.6	B2/2500		
BH (60°-80°)	740.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.2	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°	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0
2.5°	2435.7	2429.1	2438.4	2434.4	2431.7	2426.4	2423.8	2421.1	2415.8	2411.8
5°	2442.4	2438.4	2447.7	2455.6	2463.6	2471.5	2475.5	2480.8	2475.5	2464.9
7.5°	2386.6	2384.0	2403.9	2427.8	2463.6	2494.1	2527.3	2545.8	2547.2	2543.2
10°	2382.7	2376.0	2395.9	2425.1	2471.5	2525.9	2584.3	2624.1	2629.4	2646.7
12.5°	2445.0	2438.4	2466.2	2498.1	2545.8	2602.9	2674.5	2730.2	2738.2	2762.1
15°	2549.8	2540.5	2572.4	2613.5	2674.5	2739.5	2815.2	2865.6	2872.2	2901.4
17.5°	2671.9	2662.6	2699.7	2743.5	2809.8	2898.7	2986.3	3042.0	3050.0	3068.5
20°	2828.4	2816.5	2845.7	2885.5	2955.8	3061.9	3166.7	3246.3	3245.0	3245.0
22.5°	3010.2	2991.6	3016.8	3048.6	3115.0	3243.7	3383.0	3477.1	3477.1	3440.0
25°	3205.2	3186.6	3214.5	3243.7	3302.0	3448.0	3611.1	3727.9	3733.2	3669.5
27.5°	3449.3	3425.4	3446.6	3481.1	3515.6	3664.2	3857.9	3993.2	3995.9	3897.7
30°	3918.9	3851.3	3784.9	3747.8	3763.7	3911.0	4117.9	4267.8	4281.1	4145.8
32.5°	4778.6	4765.3	4531.8	4226.7	4067.5	4176.3	4408.5	4588.9	4596.8	4423.1
35°	6114.5	6098.6	5723.2	5142.1	4623.4	4531.8	4761.3	4974.9	4969.6	4773.3
37.5°	7709.2	7694.6	7199.7	6422.3	5582.5	5069.1	5216.4	5440.6	5473.8	5216.4
40°	9071.6	9017.2	8704.2	7954.6	6856.1	5960.6	5863.8	6012.4	6046.9	5741.7
42.5°	10103.8	10057.3	9898.1	9429.8	8397.7	7279.3	6626.6	6683.7	6722.1	6356.0
45°	10638.4	10627.8	10691.5	10647.7	9968.4	8897.8	7717.1	7479.7	7494.2	7036.6
47.5°	10714.0	10708.7	10999.3	11410.5	11319.0	10723.3	9116.7	8472.0	8420.2	7804.7
50°	10268.3	10257.7	10814.9	11585.6	12221.1	12256.9	10706.1	9590.4	9476.3	8599.3
52.5°	8844.8	8842.1	9757.5	11040.4	12538.2	13599.5	12276.8	10818.8	10627.8	9440.4
55°	6805.7	6854.8	7904.2	9420.5	11959.7	14245.6	13687.0	12182.6	11889.4	10286.8
57.5°	4821.0	4892.7	5930.1	7280.7	10166.1	13863.5	14640.9	13549.1	13233.3	11130.6
60°	2589.6	2653.3	3692.1	5303.9	7563.2	12438.7	15143.7	14735.1	14436.6	11931.9
62.5°	1542.9	1564.1	1994.0	3424.1	5115.6	9502.8	14930.1	15638.5	15393.1	12604.5
65°	1107.8	1111.7	1328.0	2090.8	3105.7	5773.6	13432.3	16071.0	15995.4	13111.3
67.5°	932.6	930.0	1020.2	1389.0	2116.0	2892.1	10294.8	15459.5	15780.5	13432.3
70°	800.0	803.9	910.1	1017.5	1590.7	1637.1	5118.2	13460.2	14144.7	13517.2
72.5°	595.7	608.9	707.1	927.3	1200.6	1126.3	1767.1	9980.4	11218.2	12735.8
75°	420.5	427.2	497.5	780.1	895.5	819.9	902.1	5159.3	6746.0	9764.1
77.5°	323.7	335.6	376.8	545.3	882.2	575.8	551.9	1785.7	2743.5	5898.3
80°	175.1	196.3	272.0	394.0	619.5	407.3	273.3	711.1	930.0	2758.1
82.5°	90.2	100.8	189.7	283.9	352.9	355.5	135.3	295.8	383.4	851.7
85°	35.8	43.8	127.4	156.5	181.8	175.1	61.0	119.4	138.0	236.1
87.5°	8.0	13.3	46.4	35.8	34.5	37.1	14.6	27.9	26.5	27.9
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°
2380.0	0°	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0
2395.9	2.5°	2394.6	2389.3	2374.7	2358.8	2340.2	2329.6	2323.0	2321.6	2312.4	2305.7
2449.0	5°	2434.4	2429.1	2401.2	2368.1	2332.3	2304.4	2277.9	2254.0	2219.5	2212.9
2525.9	7.5°	2514.0	2499.4	2454.3	2409.2	2341.5	2260.6	2162.4	2049.7	1948.8	1918.3
2628.1	10°	2612.2	2592.3	2535.2	2455.6	2305.7	2085.5	1848.0	1627.8	1452.7	1403.6
2748.8	12.5°	2723.6	2706.4	2630.7	2483.5	2155.8	1756.5	1393.0	1119.7	949.9	907.4
2877.5	15°	2856.3	2831.1	2726.3	2441.0	1887.8	1334.6	956.5	794.7	733.6	725.7
3024.8	17.5°	2996.9	2955.8	2811.2	2288.5	1527.0	948.6	738.9	692.5	666.0	658.0
3173.3	20°	3125.6	3072.5	2861.6	2057.6	1140.9	738.9	662.0	631.5	607.6	598.3
3321.9	22.5°	3254.3	3178.7	2861.6	1743.2	855.7	655.4	607.6	579.7	551.9	539.9
3481.1	25°	3388.3	3287.4	2811.2	1393.0	688.5	601.0	555.9	525.4	501.5	486.9
3632.4	27.5°	3518.3	3379.0	2695.8	1061.3	612.9	553.2	508.1	478.9	456.4	445.8
3796.9	30°	3641.7	3469.2	2533.9	805.3	563.8	506.8	464.3	439.1	416.6	406.0
4010.5	32.5°	3808.8	3583.3	2361.4	660.7	521.4	463.0	424.5	400.6	380.7	372.8
4287.7	35°	4041.0	3751.8	2212.9	648.7	485.6	427.2	388.7	366.2	346.3	339.6
4645.9	37.5°	4370.0	4023.7	2134.6	728.3	456.4	395.3	359.5	335.6	317.1	311.8
5101.0	40°	4775.9	4392.5	2177.0	807.9	436.5	367.5	333.0	309.1	293.2	286.6
5623.7	42.5°	5257.5	4847.6	2411.8	869.0	423.2	343.6	307.8	281.2	270.6	268.0
6216.7	45°	5810.7	5347.7	2771.4	934.0	402.0	321.0	282.6	262.7	254.7	253.4
6861.4	47.5°	6439.6	5897.0	3187.9	1014.9	380.7	299.8	262.7	249.4	242.8	240.1
7534.0	50°	7063.1	6450.2	3616.4	1060.0	363.5	279.9	246.8	236.1	230.8	229.5
8245.1	52.5°	7715.8	7019.3	3962.7	1017.5	348.9	264.0	233.5	225.5	220.2	218.9
8900.5	55°	8338.0	7479.7	4022.4	863.6	319.7	248.1	218.9	214.9	208.3	208.3
9565.1	57.5°	8874.0	7710.5	3600.5	634.1	290.5	224.2	204.3	200.3	195.0	193.7
10164.8	60°	9366.1	7644.2	2779.3	427.2	258.7	200.3	185.7	183.1	177.8	171.1
10686.2	62.5°	9643.4	7352.3	1901.1	278.6	226.9	175.1	164.5	163.2	151.2	138.0
11072.2	65°	9748.2	6752.6	1186.0	203.0	189.7	149.9	142.0	139.3	122.1	107.5
11291.1	67.5°	9656.7	5765.6	598.3	160.5	149.9	124.7	116.7	116.7	104.8	91.5
11277.9	70°	9290.5	4322.2	252.1	128.7	115.4	95.5	95.5	100.8	88.9	74.3
10692.8	72.5°	8495.9	2908.0	134.0	98.2	86.2	67.7	78.3	82.3	70.3	55.7
8751.9	75°	6754.0	1773.7	92.9	73.0	54.4	47.8	59.7	62.4	47.8	37.1
6000.4	77.5°	4619.4	1018.9	62.4	46.4	34.5	27.9	41.1	38.5	25.2	17.2
2313.7	80°	2028.4	424.5	35.8	21.2	13.3	10.6	14.6	10.6	8.0	5.3
317.1	82.5°	237.5	99.5	13.3	8.0	5.3	2.7	1.3	0.0	0.0	0.0
96.8	85°	49.1	11.9	6.6	2.7	1.3	0.0	0.0	0.0	0.0	0.0
17.2	87.5°	9.3	2.7	1.3	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°
2380.0
2312.4
2210.2
1903.7
1385.0
895.5
717.7
654.0
593.0
533.3
481.6
445.8
407.3
372.8
339.6
310.4
285.2
268.0
252.1
240.1
229.5
218.9
207.0
192.4
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