

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: P955095

Luminaire Tested: **GALN-SB8A-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955095
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-SB8A-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 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: 18382 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

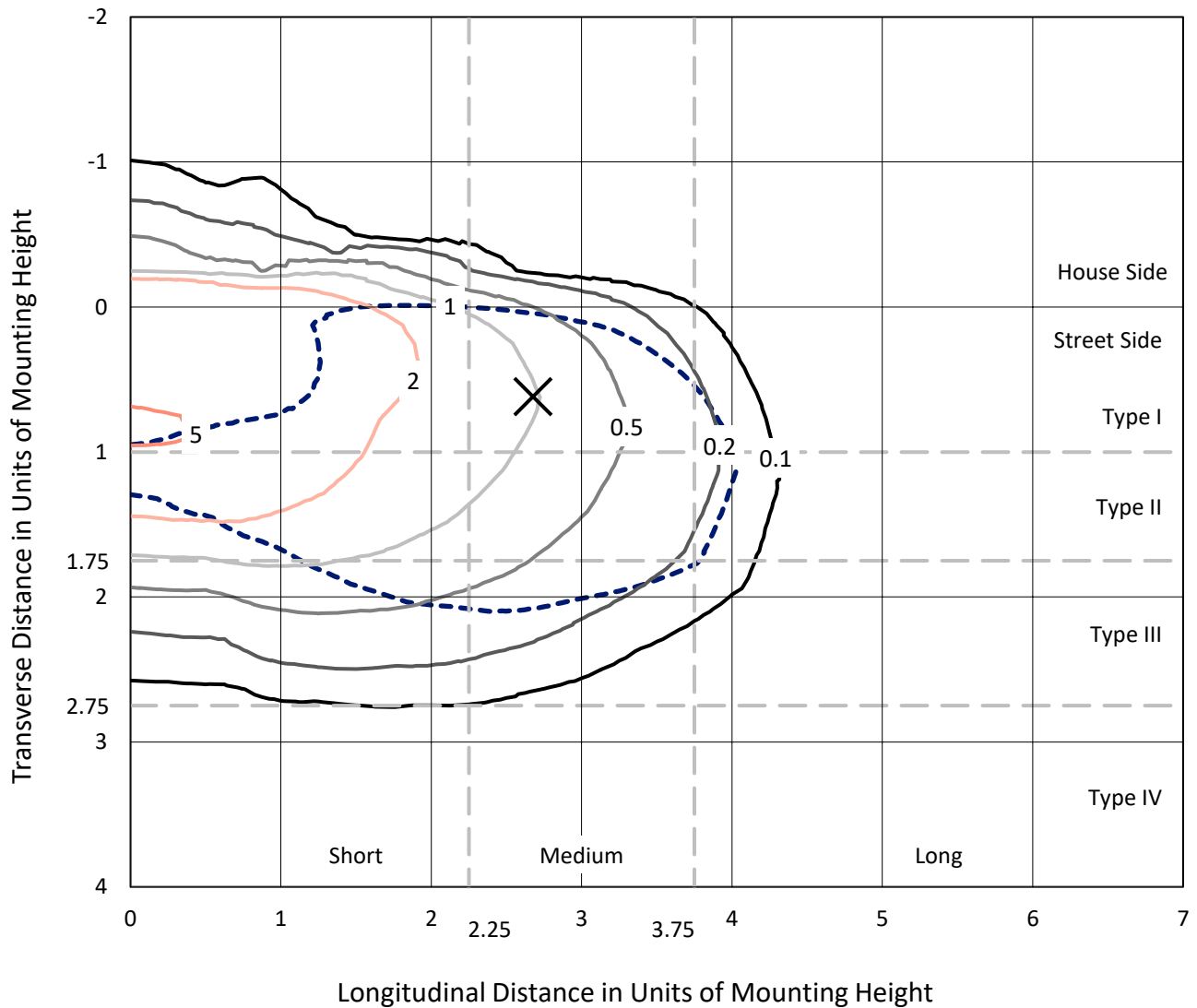
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

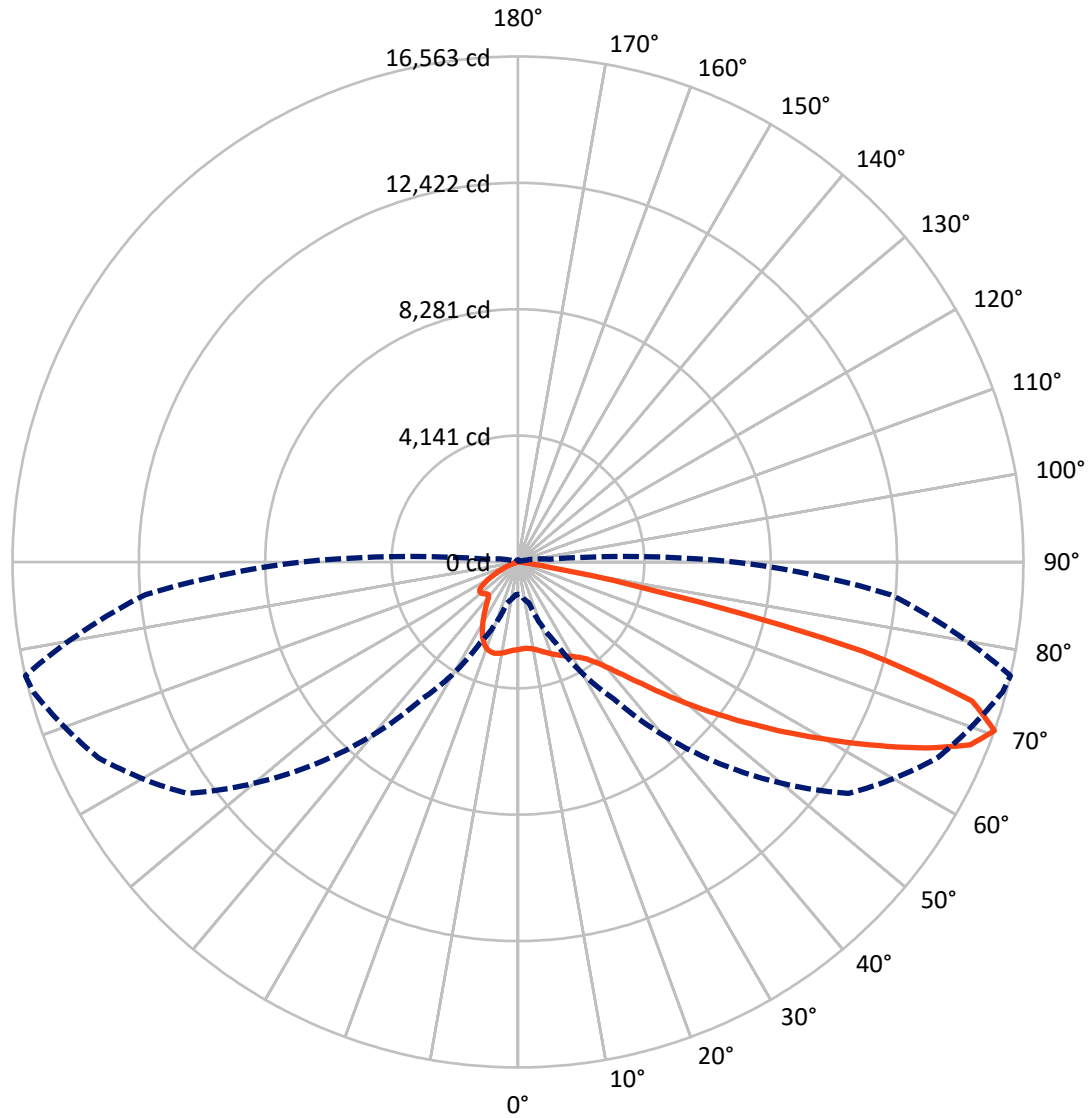
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	1937.7	0.0	1937.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16444.3	0.0	16444.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	18382.0	0.0	18382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	1.3
10°-20°	586.6	3.2
20°-30°	907.3	4.9
30°-40°	1646.4	9.0
40°-50°	3107.8	16.9
50°-60°	4490.5	24.4
60°-70°	4780.0	26.0
70°-80°	2533.1	13.8
80°-90°	83.2	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°	18382.0	100.0
0°-180°	18382.0	100.0

Coefficient of Utilization



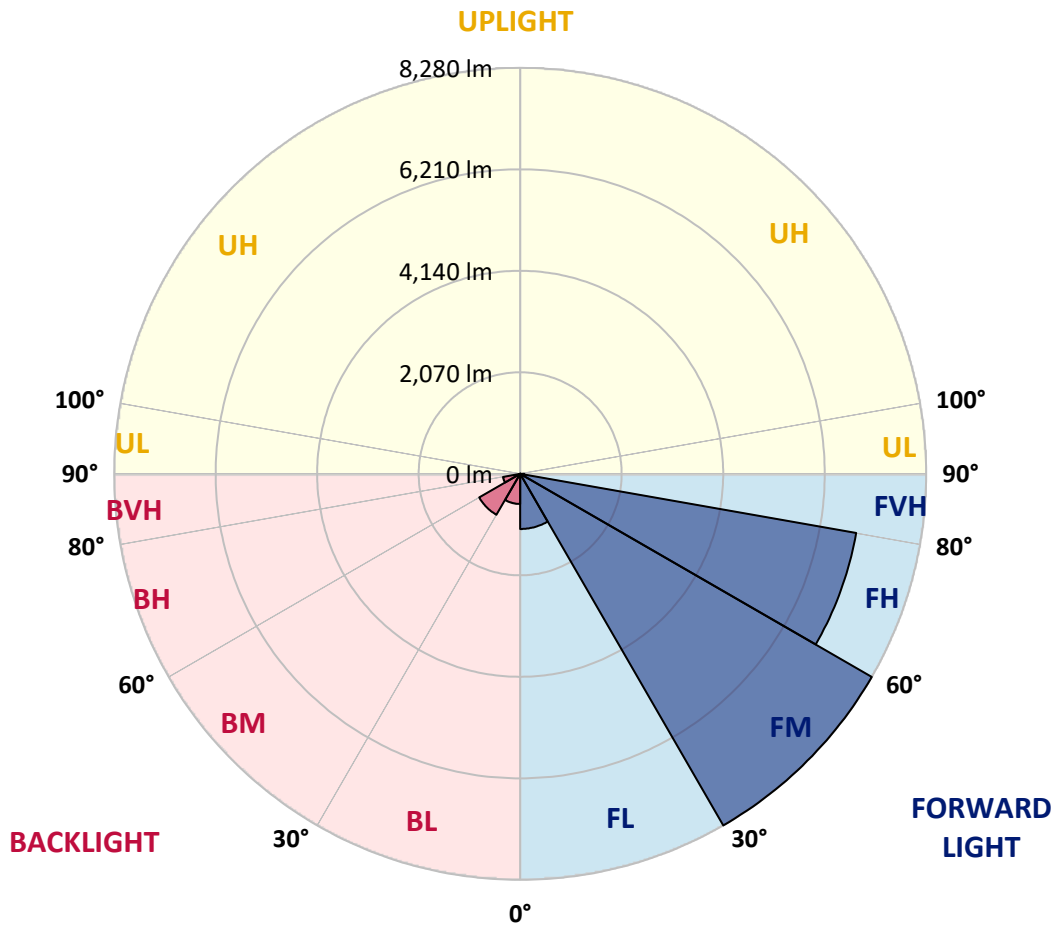
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.4	6.1			
FM (30°-60°)	8280.1	45.0			
FH (60°-80°)	6957.8	37.9			G3/7500
FVH (80°-90°)	80.9	0.4			G1/100
BL (0°-30°)	615.6	3.3	B2/1000		
BM (30°-60°)	964.6	5.2	B1/1000		
BH (60°-80°)	355.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3
2.5°	2692.0	2716.4	2712.9	2729.1	2734.9	2758.1	2781.4	2812.7	2847.5	2846.4
5°	2539.9	2564.3	2570.1	2592.1	2620.0	2656.0	2703.6	2766.3	2831.3	2841.7
7.5°	2360.0	2385.5	2400.6	2444.7	2495.8	2570.1	2647.9	2739.6	2847.5	2862.6
10°	2180.0	2203.3	2223.0	2285.7	2366.9	2477.2	2603.8	2736.1	2881.2	2903.2
12.5°	2068.6	2090.7	2112.7	2167.3	2268.3	2402.9	2574.7	2752.3	2936.9	2968.3
15°	2029.1	2048.9	2066.3	2115.0	2209.1	2362.3	2568.9	2786.0	3007.7	3049.5
17.5°	2034.9	2045.4	2057.0	2094.1	2185.9	2343.7	2579.4	2844.0	3091.3	3128.4
20°	2068.6	2074.4	2075.6	2101.1	2182.4	2341.4	2600.3	2899.8	3170.2	3220.2
22.5°	2111.6	2113.9	2111.6	2129.0	2204.4	2358.8	2628.1	2967.1	3258.5	3304.9
25°	2312.4	2268.3	2212.5	2178.9	2241.6	2392.5	2669.9	3057.6	3354.8	3400.1
27.5°	2935.7	2809.2	2609.6	2385.5	2318.2	2441.2	2728.0	3149.3	3452.3	3492.9
30°	3948.0	3782.0	3443.0	2938.1	2564.3	2543.4	2803.4	3241.0	3555.6	3599.7
32.5°	4962.6	4921.9	4530.7	3831.9	3118.0	2770.9	2928.8	3365.3	3692.6	3727.4
35°	5988.7	5906.3	5585.9	4895.2	3971.2	3234.1	3137.7	3527.8	3872.5	3912.0
37.5°	6774.6	6724.7	6526.2	5957.4	4983.5	3949.2	3495.3	3779.7	4133.7	4177.8
40°	7468.8	7445.6	7378.3	7003.3	6115.3	4884.8	4051.3	4169.7	4495.9	4548.1
42.5°	8014.4	8069.0	8107.3	8002.8	7281.9	5952.8	4798.9	4717.6	5000.9	5054.3
45°	8572.8	8591.3	8745.7	8896.6	8440.4	7069.5	5641.7	5359.6	5628.9	5695.1
47.5°	8931.5	9005.8	9277.4	9543.2	9414.4	8176.9	6547.1	6117.6	6356.7	6480.9
50°	8958.2	9098.6	9472.4	9935.6	10123.6	9231.0	7531.5	6981.3	7235.5	7372.5
52.5°	8513.6	8731.8	9311.0	9989.0	10506.7	10123.6	8549.5	7844.9	8171.1	8349.9
55°	6527.4	6812.9	8703.9	9698.8	10521.8	10800.4	9540.9	8744.6	9213.5	9415.5
57.5°	5686.9	5830.9	6843.1	9195.0	10242.0	11073.2	10437.1	9601.3	10347.7	10598.4
60°	4731.6	4920.8	5739.2	8370.8	9862.4	11099.9	11228.7	10706.4	11577.0	11859.1
62.5°	3215.5	3421.0	4234.7	6954.6	9343.6	11087.1	11877.7	11844.0	12943.3	13246.3
65°	1992.0	2120.8	2657.1	5678.8	8618.0	11101.1	12556.7	13225.4	14385.1	14692.7
67.5°	1574.1	1633.3	1913.1	4360.1	7367.8	10787.6	13234.7	14524.4	15742.1	15985.8
70°	1057.5	1093.5	1391.8	2923.0	5481.5	9341.2	13221.9	15176.7	16440.9	16562.8
72.5°	557.2	585.1	813.7	1353.5	3310.7	6640.0	11145.2	14396.7	15745.6	15562.1
75°	278.6	325.0	547.9	687.2	1413.9	3703.1	6920.9	11350.6	12393.1	11682.6
77.5°	211.3	255.4	452.7	452.7	492.2	1246.7	2931.1	6190.7	5710.1	4754.8
80°	134.7	174.1	395.8	342.4	205.5	316.9	763.8	1734.3	1213.1	922.9
82.5°	78.9	113.8	329.7	226.4	114.9	117.2	215.9	369.1	314.6	244.9
85°	31.3	74.3	226.4	89.4	45.3	29.0	65.0	78.9	65.0	48.8
87.5°	0.0	17.4	39.5	0.0	3.5	2.3	4.6	5.8	5.8	4.6
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°
2867.3	0°	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3	2867.3
2869.6	2.5°	2880.0	2882.4	2889.3	2890.5	2874.2	2853.3	2845.2	2841.7	2827.8	2826.6
2888.2	5°	2914.9	2925.3	2914.9	2884.7	2812.7	2711.7	2635.1	2572.4	2515.5	2498.1
2952.0	7.5°	2984.5	2995.0	2963.6	2845.2	2664.1	2463.3	2282.2	2154.5	2039.6	1996.6
3029.8	10°	3084.3	3098.3	2999.6	2760.5	2440.1	2117.4	1810.9	1595.0	1426.7	1358.2
3135.4	12.5°	3209.7	3215.5	3019.3	2631.6	2148.7	1687.9	1253.7	1022.7	872.9	817.2
3263.1	15°	3347.8	3339.7	3021.7	2456.3	1751.7	1193.3	818.4	672.1	611.8	593.2
3390.8	17.5°	3492.9	3459.3	2975.2	2203.3	1316.4	816.1	607.1	572.3	561.8	557.2
3517.3	20°	3635.7	3560.3	2890.5	1872.4	944.9	609.4	551.4	540.9	535.1	532.8
3645.0	22.5°	3765.7	3636.9	2745.4	1488.2	686.1	538.6	521.2	511.9	501.5	496.8
3769.2	25°	3892.3	3681.0	2541.1	1129.5	549.1	503.8	489.9	472.5	458.5	452.7
3902.7	27.5°	4015.3	3708.9	2285.7	835.8	489.9	471.3	445.8	421.4	410.9	408.6
4045.5	30°	4146.5	3718.2	1995.5	623.4	453.9	430.7	393.5	365.7	359.9	361.0
4238.2	32.5°	4306.7	3732.1	1702.9	510.8	423.7	381.9	337.8	308.8	304.1	308.8
4519.1	35°	4498.2	3759.9	1420.9	470.1	397.0	332.0	284.4	260.0	255.4	258.9
4879.0	37.5°	4758.3	3805.2	1157.4	462.0	374.9	290.2	239.1	219.4	219.4	220.6
5320.1	40°	5104.2	3925.9	921.7	456.2	363.3	258.9	202.0	193.9	197.3	199.7
5881.9	42.5°	5525.6	4182.5	762.7	449.2	350.6	244.9	183.4	179.9	185.7	188.1
6555.2	45°	5998.0	4507.5	706.9	437.6	339.0	254.2	175.3	170.6	177.6	178.8
7309.8	47.5°	6486.7	4825.6	700.0	424.9	327.4	268.2	173.0	162.5	170.6	171.8
8115.4	50°	6981.3	5033.4	706.9	405.1	308.8	268.2	174.1	154.4	161.4	164.8
8951.2	52.5°	7479.3	5128.6	702.3	362.2	276.3	251.9	174.1	147.4	154.4	156.7
9854.3	55°	7962.2	5110.0	631.5	298.3	234.5	222.9	169.5	141.6	146.3	147.4
10707.5	57.5°	8344.1	4851.1	500.3	232.2	190.4	185.7	154.4	134.7	138.1	137.0
11489.9	60°	8543.7	4282.3	357.5	178.8	149.7	146.3	135.8	125.4	127.7	121.9
12152.8	62.5°	8546.1	3530.1	239.1	141.6	119.6	116.1	116.1	112.6	110.3	98.7
12665.9	65°	8363.8	2695.5	159.0	112.6	96.3	90.5	97.5	96.3	88.2	72.0
12822.6	67.5°	7950.6	1766.8	120.7	88.2	74.3	70.8	77.8	81.3	75.5	60.4
12251.4	70°	7100.8	1028.5	99.8	68.5	55.7	52.2	62.7	69.7	62.7	48.8
10471.9	72.5°	5898.2	554.9	81.3	51.1	38.3	34.8	49.9	56.9	49.9	36.0
6718.9	75°	3827.3	297.2	62.7	33.7	19.7	22.1	37.1	41.8	34.8	23.2
1972.3	77.5°	1285.0	131.2	39.5	16.3	9.3	9.3	22.1	25.5	16.3	8.1
358.7	80°	286.7	54.6	16.3	7.0	3.5	3.5	4.6	4.6	2.3	0.0
110.3	82.5°	94.0	22.1	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
27.9	85°	36.0	8.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.3	87.5°	13.9	1.2	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

<u>180°</u>
2867.3
2829.0
2487.7
1979.2
1329.2
799.8
593.2
556.0
530.5
495.7
450.4
406.3
361.0
307.6
257.7
219.4
199.7
188.1
179.9
173.0
166.0
156.7
147.4
137.0
120.7
95.2
69.7
59.2
46.4
34.8
20.9
7.0
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