

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: P955158

Luminaire Tested: **GALN-SB8A-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955158
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-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 21883 lumens
Efficiency: N/A
Efficacy: 96.4 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

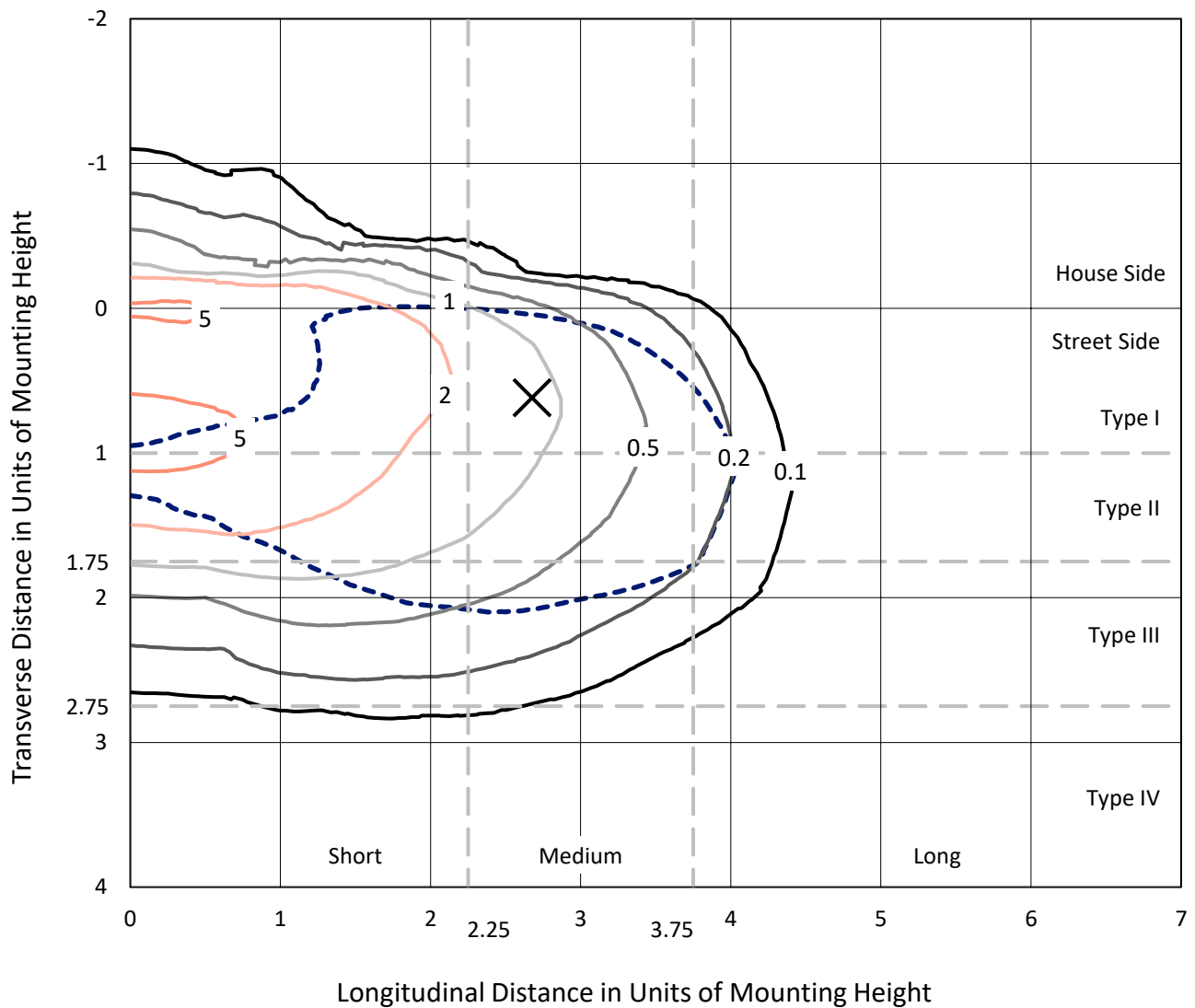
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

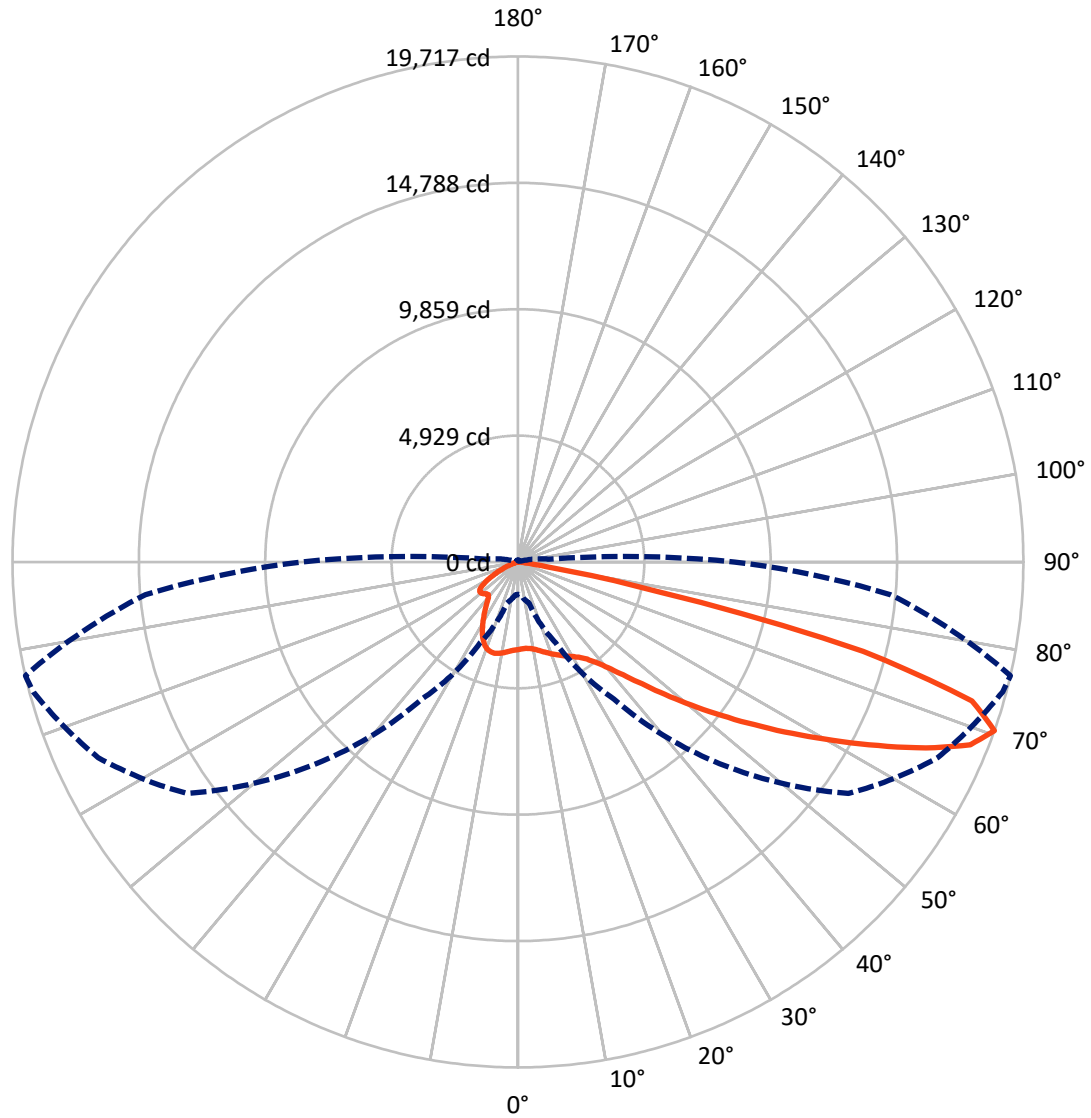
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2306.8	0.0	2306.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19576.2	0.0	19576.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	21883.0	0.0	21883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	1.3
10°-20°	698.3	3.2
20°-30°	1080.1	4.9
30°-40°	1960.0	9.0
40°-50°	3699.7	16.9
50°-60°	5345.7	24.4
60°-70°	5690.4	26.0
70°-80°	3015.5	13.8
80°-90°	99.0	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°	21883.0	100.0
0°-180°	21883.0	100.0

Coefficient of Utilization



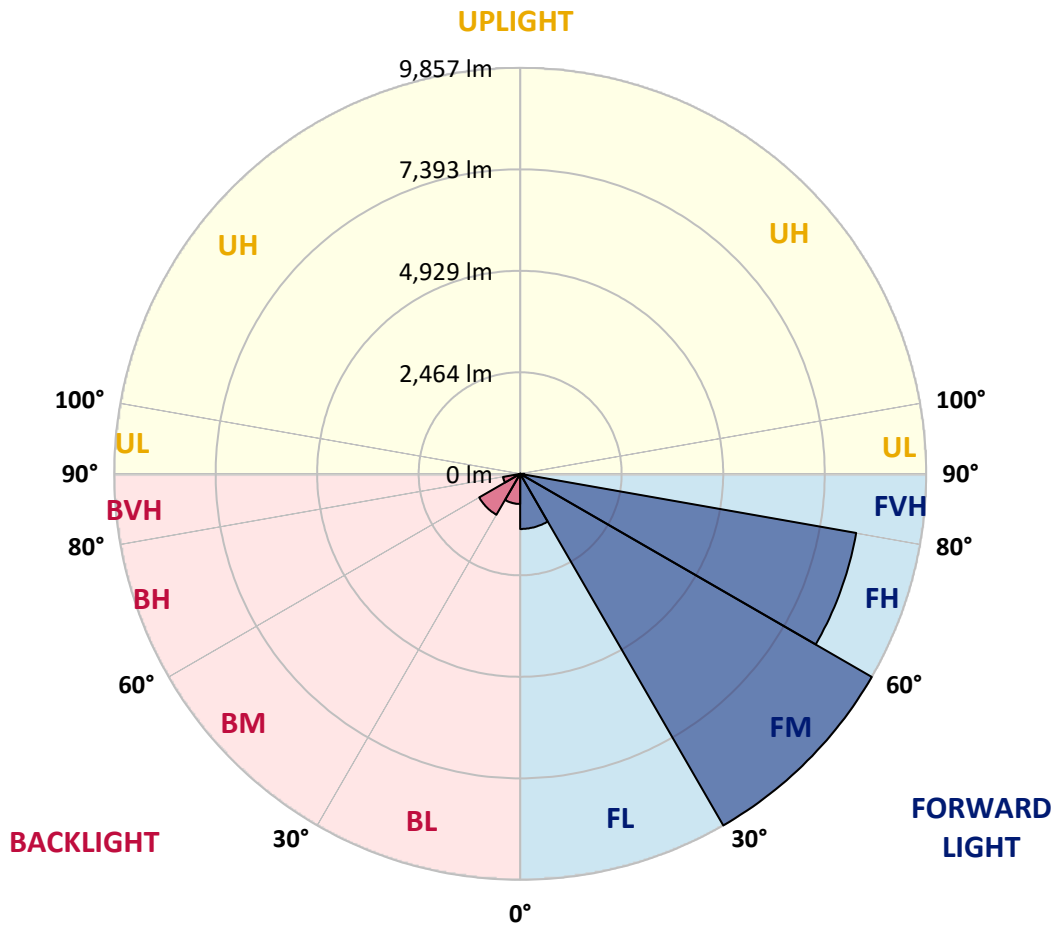
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.8	6.1			
FM (30°-60°)	9857.1	45.0			
FH (60°-80°)	8283.0	37.9			G4/12000
FVH (80°-90°)	96.4	0.4			G1/100
BL (0°-30°)	732.9	3.3	B2/1000		
BM (30°-60°)	1148.3	5.2	B2/2500		
BH (60°-80°)	422.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	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°	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4
2.5°	3204.7	3233.7	3229.6	3248.9	3255.8	3283.5	3311.1	3348.4	3389.9	3388.5
5°	3023.7	3052.7	3059.6	3085.8	3119.0	3161.8	3218.5	3293.1	3370.5	3383.0
7.5°	2809.5	2839.9	2857.8	2910.3	2971.1	3059.6	3152.2	3261.3	3389.9	3407.8
10°	2595.3	2622.9	2646.4	2721.0	2817.7	2949.0	3099.7	3257.2	3429.9	3456.2
12.5°	2462.6	2488.8	2515.1	2580.1	2700.3	2860.6	3065.1	3276.5	3496.3	3533.6
15°	2415.6	2439.1	2459.8	2517.9	2629.8	2812.2	3058.2	3316.6	3580.6	3630.3
17.5°	2422.5	2435.0	2448.8	2493.0	2602.2	2790.1	3070.6	3385.7	3680.1	3724.3
20°	2462.6	2469.5	2470.9	2501.3	2598.0	2787.3	3095.5	3452.0	3774.0	3833.5
22.5°	2513.7	2516.5	2513.7	2534.4	2624.3	2808.1	3128.7	3532.2	3879.1	3934.3
25°	2752.8	2700.3	2633.9	2593.9	2668.5	2848.1	3178.4	3640.0	3993.8	4047.7
27.5°	3494.9	3344.3	3106.6	2839.9	2759.7	2906.2	3247.5	3749.2	4109.8	4158.2
30°	4699.9	4502.3	4098.8	3497.7	3052.7	3027.8	3337.3	3858.3	4232.8	4285.3
32.5°	5907.7	5859.4	5393.7	4561.7	3711.8	3298.7	3486.6	4006.2	4395.9	4437.4
35°	7129.3	7031.2	6649.8	5827.6	4727.6	3850.0	3735.3	4199.7	4610.1	4657.1
37.5°	8064.9	8005.5	7769.2	7092.0	5932.6	4701.3	4161.0	4499.5	4921.0	4973.5
40°	8891.3	8863.7	8783.5	8337.1	7280.0	5815.1	4822.9	4963.9	5352.2	5414.4
42.5°	9540.8	9605.8	9651.4	9527.0	8668.8	7086.5	5712.9	5616.1	5953.3	6016.9
45°	10205.5	10227.6	10411.4	10591.1	10048.0	8415.9	6716.2	6380.3	6701.0	6779.7
47.5°	10632.5	10721.0	11044.3	11360.8	11207.4	9734.3	7794.1	7282.7	7567.4	7715.3
50°	10664.3	10831.5	11276.5	11827.9	12051.8	10989.1	8965.9	8310.9	8613.5	8776.6
52.5°	10135.0	10394.8	11084.4	11891.5	12507.8	12051.8	10177.9	9339.0	9727.4	9940.2
55°	7770.6	8110.5	10361.7	11546.0	12525.8	12857.4	11358.0	10410.0	10968.3	11208.8
57.5°	6770.0	6941.4	8146.4	10946.2	12192.7	13182.2	12424.9	11429.9	12318.5	12617.0
60°	5632.7	5858.0	6832.2	9965.1	11740.8	13214.0	13367.4	12745.5	13781.9	14117.7
62.5°	3827.9	4072.5	5041.3	8279.1	11123.1	13198.8	14139.8	14099.8	15408.5	15769.1
65°	2371.4	2524.8	3163.2	6760.4	10259.4	13215.3	14948.3	15744.3	17124.8	17491.0
67.5°	1873.9	1944.4	2277.4	5190.5	8771.1	12842.2	15755.3	17290.6	18740.3	19030.5
70°	1258.9	1301.8	1656.9	3479.7	6525.4	11120.3	15740.1	18067.3	19572.2	19717.3
72.5°	663.3	696.5	968.7	1611.3	3941.2	7904.6	13267.9	17138.6	18744.4	18526.1
75°	331.7	386.9	652.3	818.1	1683.2	4408.3	8239.0	13512.5	14753.4	13907.7
77.5°	251.5	304.0	539.0	539.0	585.9	1484.2	3489.4	7369.8	6797.7	5660.4
80°	160.3	207.3	471.2	407.7	244.6	377.3	909.3	2064.6	1444.1	1098.6
82.5°	94.0	135.4	392.5	269.5	136.8	139.6	257.0	439.5	374.5	291.6
85°	37.3	88.4	269.5	106.4	53.9	34.5	77.4	94.0	77.4	58.0
87.5°	0.0	20.7	47.0	0.0	4.1	2.8	5.5	6.9	6.9	5.5
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°
3413.4	0°	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4	3413.4
3416.1	2.5°	3428.6	3431.3	3439.6	3441.0	3421.6	3396.8	3387.1	3383.0	3366.4	3365.0
3438.2	5°	3470.0	3482.4	3470.0	3434.1	3348.4	3228.2	3137.0	3062.3	2994.6	2973.9
3514.2	7.5°	3552.9	3565.4	3528.1	3387.1	3171.5	2932.4	2716.9	2564.9	2428.0	2376.9
3606.8	10°	3671.8	3688.4	3570.9	3286.2	2904.8	2520.6	2155.8	1898.8	1698.4	1616.9
3732.6	12.5°	3821.0	3827.9	3594.4	3132.8	2557.9	2009.3	1492.5	1217.5	1039.2	972.9
3884.6	15°	3985.5	3975.8	3597.1	2924.2	2085.3	1420.6	974.3	800.1	728.3	706.2
4036.6	17.5°	4158.2	4118.1	3541.9	2622.9	1567.1	971.5	722.7	681.3	668.9	663.3
4187.2	20°	4328.2	4238.4	3441.0	2229.0	1124.9	725.5	656.4	644.0	637.1	634.3
4339.2	22.5°	4483.0	4329.6	3268.3	1771.6	816.7	641.2	620.5	609.4	597.0	591.5
4487.1	25°	4633.6	4382.1	3025.0	1344.6	653.7	599.8	583.2	562.4	545.9	539.0
4646.0	27.5°	4780.1	4415.2	2721.0	995.0	583.2	561.1	530.7	501.6	489.2	486.4
4816.0	30°	4936.2	4426.3	2375.5	742.1	540.3	512.7	468.5	435.3	428.4	429.8
5045.4	32.5°	5126.9	4442.9	2027.3	608.0	504.4	454.7	402.1	367.6	362.1	367.6
5379.8	35°	5355.0	4476.1	1691.5	559.7	472.6	395.2	338.6	309.6	304.0	308.2
5808.2	37.5°	5664.5	4529.9	1377.8	550.0	446.4	345.5	284.7	261.2	261.2	262.6
6333.4	40°	6076.3	4673.7	1097.2	543.1	432.5	308.2	240.5	230.8	234.9	237.7
7002.2	42.5°	6578.0	4979.1	907.9	534.8	417.3	291.6	218.3	214.2	221.1	223.9
7803.7	45°	7140.4	5366.0	841.6	521.0	403.5	302.6	208.7	203.1	211.4	212.8
8702.0	47.5°	7722.2	5744.7	833.3	505.8	389.7	319.2	205.9	193.5	203.1	204.5
9661.0	50°	8310.9	5992.0	841.6	482.3	367.6	319.2	207.3	183.8	192.1	196.2
10656.0	52.5°	8903.7	6105.3	836.1	431.2	328.9	299.9	207.3	175.5	183.8	186.6
11731.2	55°	9478.6	6083.2	751.8	355.2	279.1	265.3	201.8	168.6	174.1	175.5
12746.9	57.5°	9933.3	5775.1	595.6	276.4	226.6	221.1	183.8	160.3	164.4	163.1
13678.3	60°	10171.0	5097.9	425.6	212.8	178.3	174.1	161.7	149.2	152.0	145.1
14467.4	62.5°	10173.7	4202.4	284.7	168.6	142.3	138.2	138.2	134.0	131.3	117.5
15078.2	65°	9956.8	3208.8	189.3	134.0	114.7	107.8	116.1	114.7	105.0	85.7
15264.7	67.5°	9464.8	2103.3	143.7	105.0	88.4	84.3	92.6	96.7	89.8	71.9
14584.8	70°	8453.2	1224.4	118.8	81.5	66.3	62.2	74.6	82.9	74.6	58.0
12466.3	72.5°	7021.6	660.6	96.7	60.8	45.6	41.5	59.4	67.7	59.4	42.8
7998.6	75°	4556.2	353.8	74.6	40.1	23.5	26.3	44.2	49.7	41.5	27.6
2347.9	77.5°	1529.8	156.2	47.0	19.3	11.1	11.1	26.3	30.4	19.3	9.7
427.0	80°	341.3	65.0	19.3	8.3	4.1	4.1	5.5	5.5	2.8	0.0
131.3	82.5°	111.9	26.3	8.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0
33.2	85°	42.8	9.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.1	87.5°	16.6	1.4	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>
3413.4
3367.7
2961.5
2356.2
1582.3
952.1
706.2
661.9
631.5
590.1
536.2
483.7
429.8
366.2
306.8
261.2
237.7
223.9
214.2
205.9
197.6
186.6
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