

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: P950160

Luminaire Tested: **GALN-SB4C-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950160  
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-SB4C-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

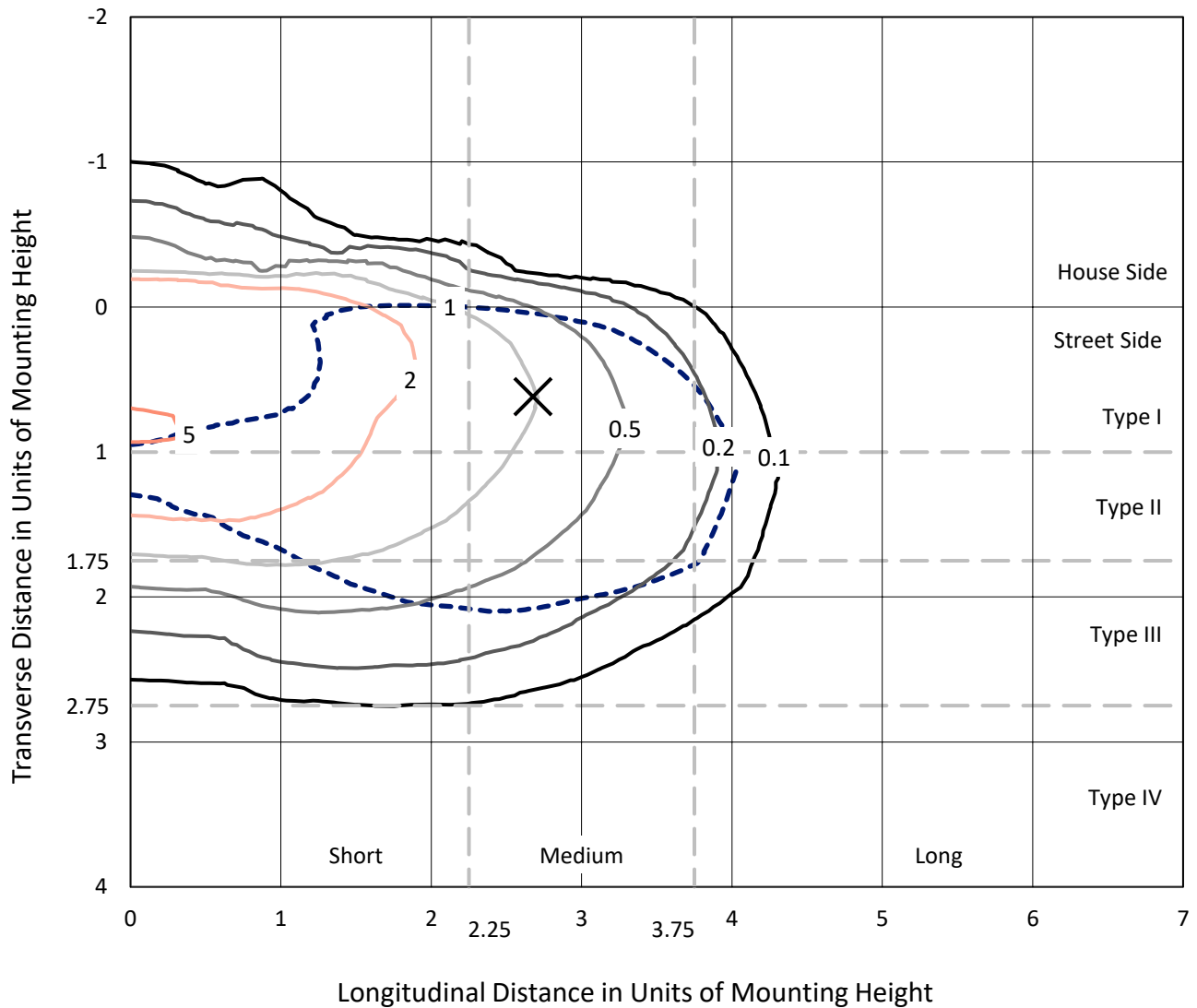
Lumens per Lamp: N/A  
Luminaire Lumens: 18107 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

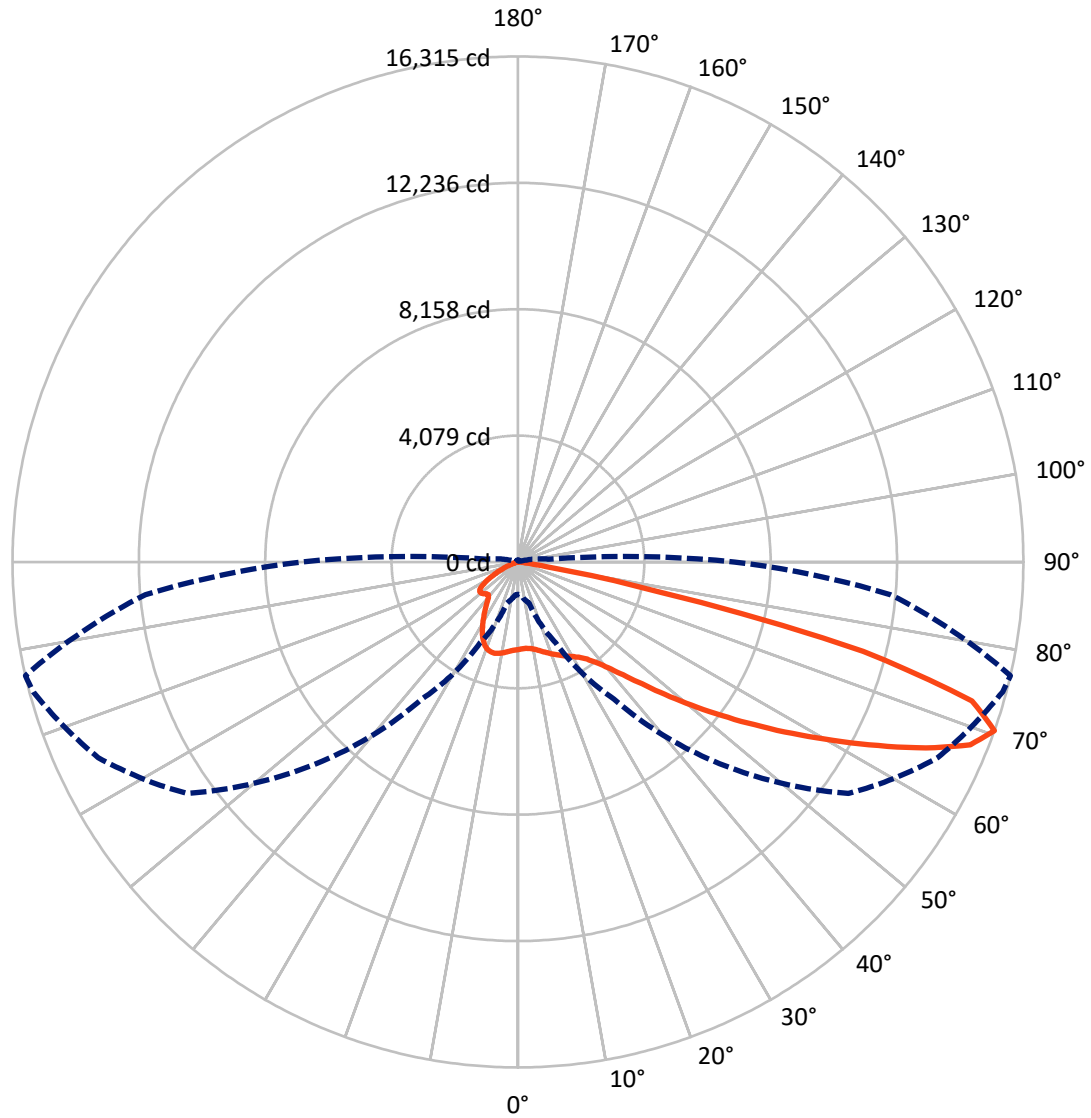
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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
<b>House Side</b>	Lumens	1908.7	0.0	1908.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	16198.3	0.0	16198.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	18107.0	0.0	18107.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.4	1.3
10°-20°	577.8	3.2
20°-30°	893.8	4.9
30°-40°	1621.8	9.0
40°-50°	3061.3	16.9
50°-60°	4423.3	24.4
60°-70°	4708.5	26.0
70°-80°	2495.2	13.8
80°-90°	81.9	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°	18107.0	100.0
0°-180°	18107.0	100.0

**Coefficient of Utilization**



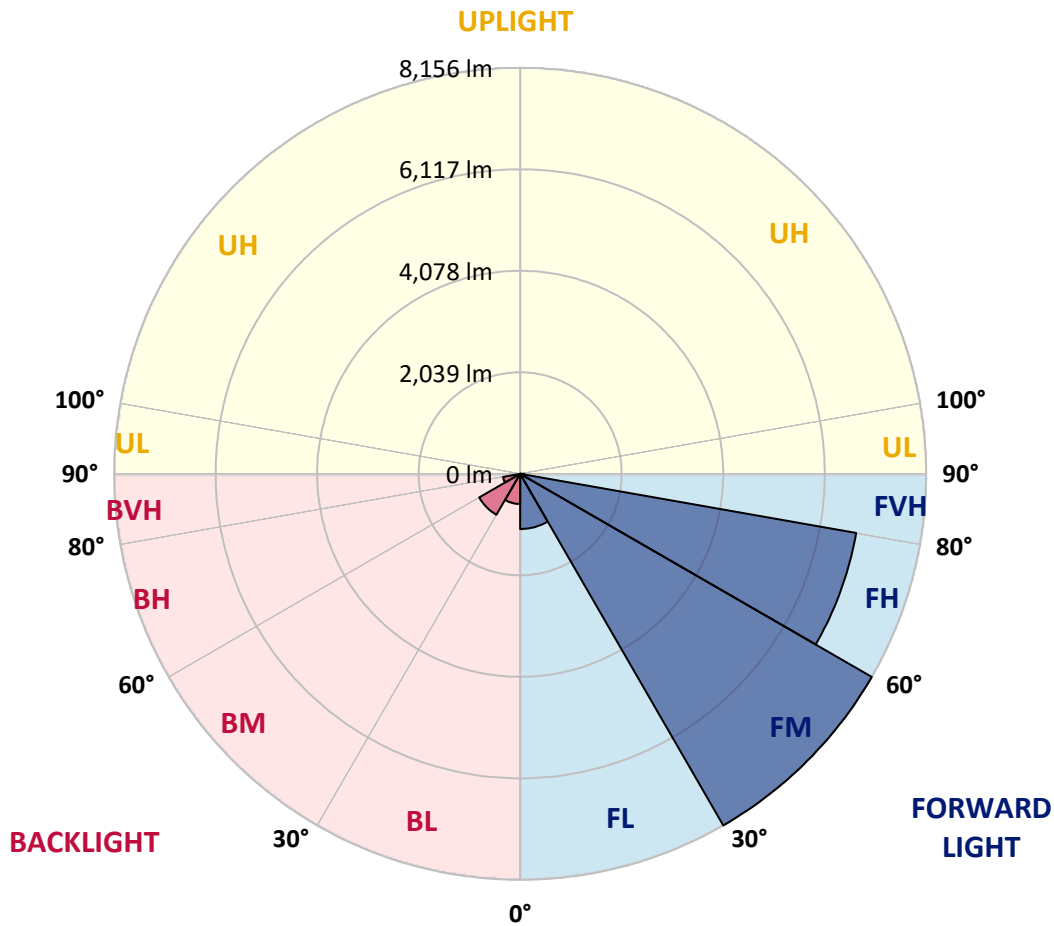
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.6	6.1			
FM (30°-60°)	8156.2	45.0			
FH (60°-80°)	6853.8	37.9			G3/7500
FVH (80°-90°)	79.7	0.4			G1/100
BL (0°-30°)	606.4	3.3	B2/1000		
BM (30°-60°)	950.2	5.2	B1/1000		
BH (60°-80°)	349.9	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°	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4
2.5°	2651.7	2675.7	2672.3	2688.3	2694.0	2716.9	2739.7	2770.6	2804.9	2803.8
5°	2501.9	2525.9	2531.6	2553.4	2580.8	2616.3	2663.1	2724.9	2788.9	2799.2
7.5°	2324.7	2349.8	2364.7	2408.1	2458.5	2531.6	2608.2	2698.6	2804.9	2819.8
10°	2147.4	2170.3	2189.7	2251.5	2331.5	2440.2	2564.8	2695.2	2838.1	2859.8
12.5°	2037.7	2059.4	2081.1	2134.9	2234.3	2367.0	2536.2	2711.2	2893.0	2923.8
15°	1998.8	2018.2	2035.4	2083.4	2176.0	2327.0	2530.5	2744.3	2962.7	3003.9
17.5°	2004.5	2014.8	2026.2	2062.8	2153.1	2308.7	2540.8	2801.5	3045.1	3081.6
20°	2037.7	2043.4	2044.5	2069.7	2149.7	2306.4	2561.4	2856.4	3122.8	3172.0
22.5°	2080.0	2082.3	2080.0	2097.1	2171.4	2323.5	2588.8	2922.7	3209.7	3255.5
25°	2277.8	2234.3	2179.4	2146.3	2208.0	2356.7	2630.0	3011.9	3304.6	3349.2
27.5°	2891.8	2767.2	2570.5	2349.8	2283.5	2404.7	2687.1	3102.2	3400.7	3440.7
30°	3888.9	3725.4	3391.5	2894.1	2525.9	2505.3	2761.5	3192.6	3502.4	3545.9
32.5°	4888.3	4848.3	4463.0	3774.6	3071.4	2729.5	2885.0	3314.9	3637.4	3671.7
35°	5899.1	5818.0	5502.4	4822.0	3911.8	3185.7	3090.8	3475.0	3814.6	3853.5
37.5°	6673.3	6624.1	6428.6	5868.3	4908.9	3890.1	3443.0	3723.1	4071.9	4115.3
40°	7357.1	7334.2	7267.9	6898.5	6023.8	4811.7	3990.7	4107.3	4428.7	4480.1
42.5°	7894.5	7948.2	7986.0	7883.1	7173.0	5863.7	4727.1	4647.1	4926.1	4978.7
45°	8444.5	8462.8	8614.9	8763.5	8314.2	6963.7	5557.3	5279.4	5544.7	5609.9
47.5°	8797.8	8871.0	9138.6	9400.4	9273.5	8054.6	6449.2	6026.1	6261.6	6384.0
50°	8824.1	8962.5	9330.7	9786.9	9972.2	9092.9	7418.8	6876.8	7127.2	7262.2
52.5°	8386.2	8601.2	9171.8	9839.5	10349.5	9972.2	8421.6	7727.6	8048.9	8225.0
55°	6429.7	6711.0	8573.7	9553.7	10364.4	10638.8	9398.2	8613.7	9075.7	9274.7
57.5°	5601.8	5743.6	6740.7	9057.4	10088.8	10907.5	10280.9	9457.6	10192.9	10439.9
60°	4660.8	4847.2	5653.3	8245.5	9714.9	10933.8	11060.8	10546.2	11403.8	11681.7
62.5°	3167.4	3369.8	4171.4	6850.5	9203.8	10921.3	11700.0	11666.8	12749.7	13048.1
65°	1962.2	2089.1	2617.4	5593.8	8489.1	10935.0	12368.9	13027.5	14169.9	14472.9
67.5°	1550.5	1608.9	1884.4	4294.9	7257.6	10626.2	13036.7	14307.1	15506.6	15746.7
70°	1041.7	1077.1	1371.0	2879.3	5399.5	9201.5	13024.1	14949.7	16194.9	16315.0
72.5°	548.9	576.3	801.6	1333.3	3261.2	6540.6	10978.4	14181.3	15510.0	15329.3
75°	274.4	320.2	539.7	676.9	1392.7	3647.7	6817.4	11180.8	12207.7	11507.9
77.5°	208.1	251.6	446.0	446.0	484.8	1228.1	2887.3	6098.1	5624.7	4683.6
80°	132.6	171.5	389.9	337.3	202.4	312.2	752.4	1708.3	1194.9	909.1
82.5°	77.8	112.1	324.7	223.0	113.2	115.5	212.7	363.6	309.9	241.3
85°	30.9	73.2	223.0	88.0	44.6	28.6	64.0	77.8	64.0	48.0
87.5°	0.0	17.2	38.9	0.0	3.4	2.3	4.6	5.7	5.7	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°
2824.4	0°	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4
2826.7	2.5°	2836.9	2839.2	2846.1	2847.2	2831.2	2810.6	2802.6	2799.2	2785.5	2784.3
2844.9	5°	2871.2	2881.5	2871.2	2841.5	2770.6	2671.1	2595.7	2533.9	2477.9	2460.7
2907.8	7.5°	2939.9	2950.1	2919.3	2802.6	2624.3	2426.4	2248.1	2122.3	2009.1	1966.8
2984.5	10°	3038.2	3051.9	2954.7	2719.2	2403.6	2085.7	1783.8	1571.1	1405.3	1337.9
3088.5	12.5°	3161.7	3167.4	2974.2	2592.2	2116.6	1662.6	1234.9	1007.4	859.9	805.0
3214.3	15°	3297.8	3289.8	2976.4	2419.6	1725.5	1175.5	806.1	662.1	602.6	584.3
3340.1	17.5°	3440.7	3407.5	2930.7	2170.3	1296.7	803.9	598.0	563.7	553.4	548.9
3464.7	20°	3581.3	3507.0	2847.2	1844.4	930.8	600.3	543.1	532.9	527.1	524.9
3590.5	22.5°	3709.4	3582.5	2704.3	1465.9	675.8	530.6	513.4	504.3	494.0	489.4
3712.8	25°	3834.0	3625.9	2503.1	1112.6	540.9	496.3	482.5	465.4	451.7	446.0
3844.3	27.5°	3955.3	3653.4	2251.5	823.3	482.5	464.2	439.1	415.1	404.8	402.5
3985.0	30°	4084.5	3662.5	1965.6	614.0	447.1	424.2	387.6	360.2	354.5	355.6
4174.8	32.5°	4242.3	3676.2	1677.5	503.1	417.4	376.2	332.7	304.2	299.6	304.2
4451.5	35°	4430.9	3703.7	1399.6	463.1	391.1	327.0	280.1	256.1	251.6	255.0
4806.0	37.5°	4687.1	3748.3	1140.0	455.1	369.3	285.9	235.6	216.1	216.1	217.3
5240.5	40°	5027.8	3867.2	907.9	449.4	357.9	255.0	199.0	191.0	194.4	196.7
5794.0	42.5°	5442.9	4119.9	751.3	442.5	345.3	241.3	180.7	177.2	183.0	185.2
6457.2	45°	5908.3	4440.1	696.4	431.1	333.9	250.4	172.7	168.1	175.0	176.1
7200.4	47.5°	6389.7	4753.4	689.5	418.5	322.5	264.1	170.4	160.1	168.1	169.2
7994.0	50°	6876.8	4958.1	696.4	399.1	304.2	264.1	171.5	152.1	158.9	162.4
8817.3	52.5°	7367.4	5051.8	691.8	356.8	272.1	248.1	171.5	145.2	152.1	154.4
9706.9	55°	7843.0	5033.5	622.0	293.9	231.0	219.5	166.9	139.5	144.1	145.2
10547.3	57.5°	8219.2	4778.6	492.8	228.7	187.5	183.0	152.1	132.6	136.1	134.9
11318.0	60°	8415.9	4218.3	352.2	176.1	147.5	144.1	133.8	123.5	125.8	120.1
11971.0	62.5°	8418.2	3477.3	235.6	139.5	117.8	114.3	114.3	110.9	108.6	97.2
12476.4	65°	8238.7	2655.1	156.7	110.9	94.9	89.2	96.1	94.9	86.9	70.9
12630.7	67.5°	7831.6	1740.4	118.9	86.9	73.2	69.8	76.6	80.0	74.3	59.5
12068.2	70°	6994.6	1013.1	98.3	67.5	54.9	51.5	61.7	68.6	61.7	48.0
10315.2	72.5°	5810.0	546.6	80.0	50.3	37.7	34.3	49.2	56.0	49.2	35.4
6618.4	75°	3770.0	292.7	61.7	33.2	19.4	21.7	36.6	41.2	34.3	22.9
1942.8	77.5°	1265.8	129.2	38.9	16.0	9.1	9.1	21.7	25.2	16.0	8.0
353.3	80°	282.4	53.7	16.0	6.9	3.4	3.4	4.6	4.6	2.3	0.0
108.6	82.5°	92.6	21.7	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
27.4	85°	35.4	8.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	13.7	1.1	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°
2824.4
2786.6
2450.5
1949.6
1309.3
787.8
584.3
547.7
522.6
488.3
443.7
400.2
355.6
303.0
253.8
216.1
196.7
185.2
177.2
170.4
163.5
154.4
145.2
134.9
118.9
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