

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: P953520

Luminaire Tested: **GALN-SB7A-750-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953520  
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-SB7A-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

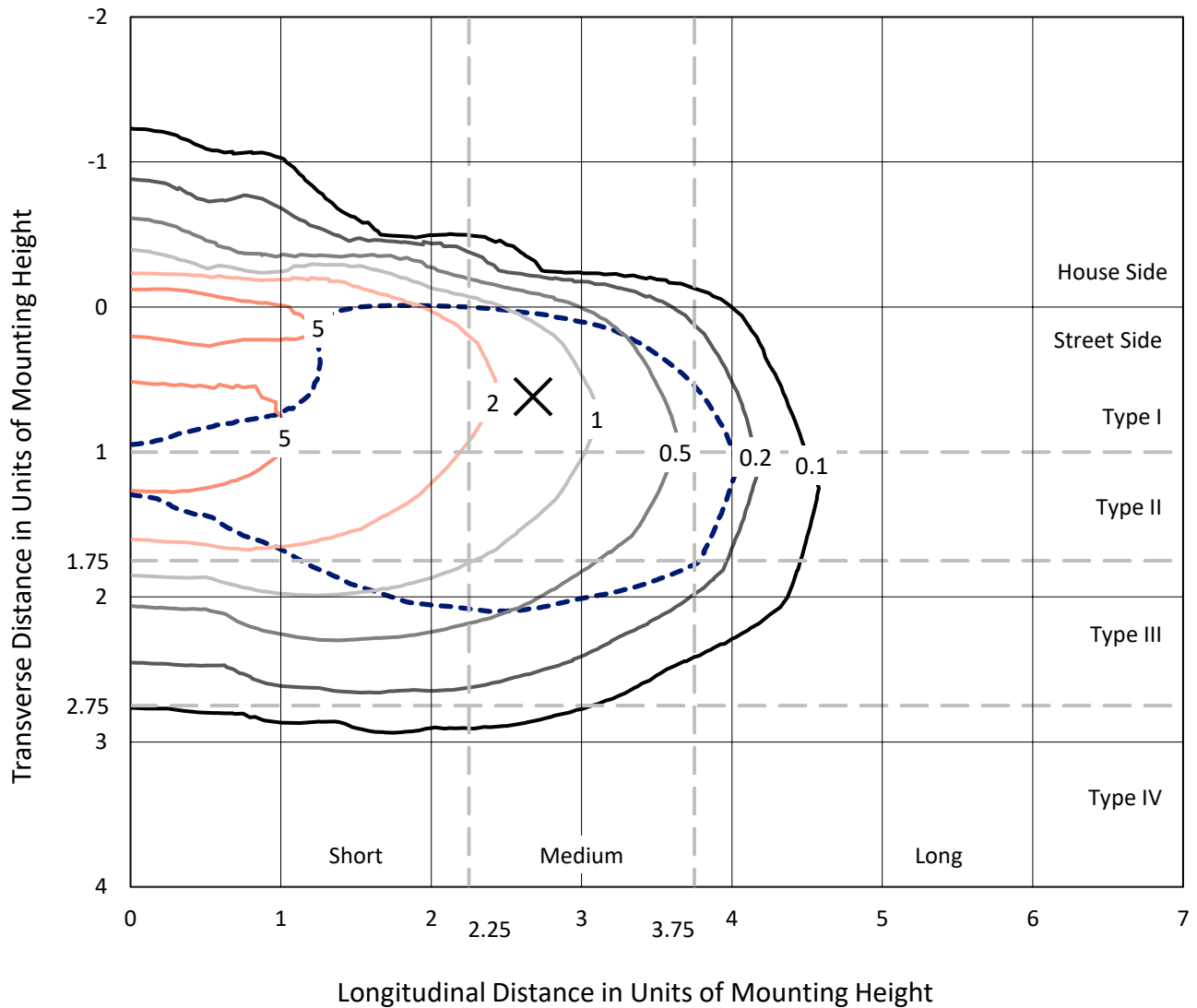
Lumens per Lamp: N/A  
Luminaire Lumens: 28099 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

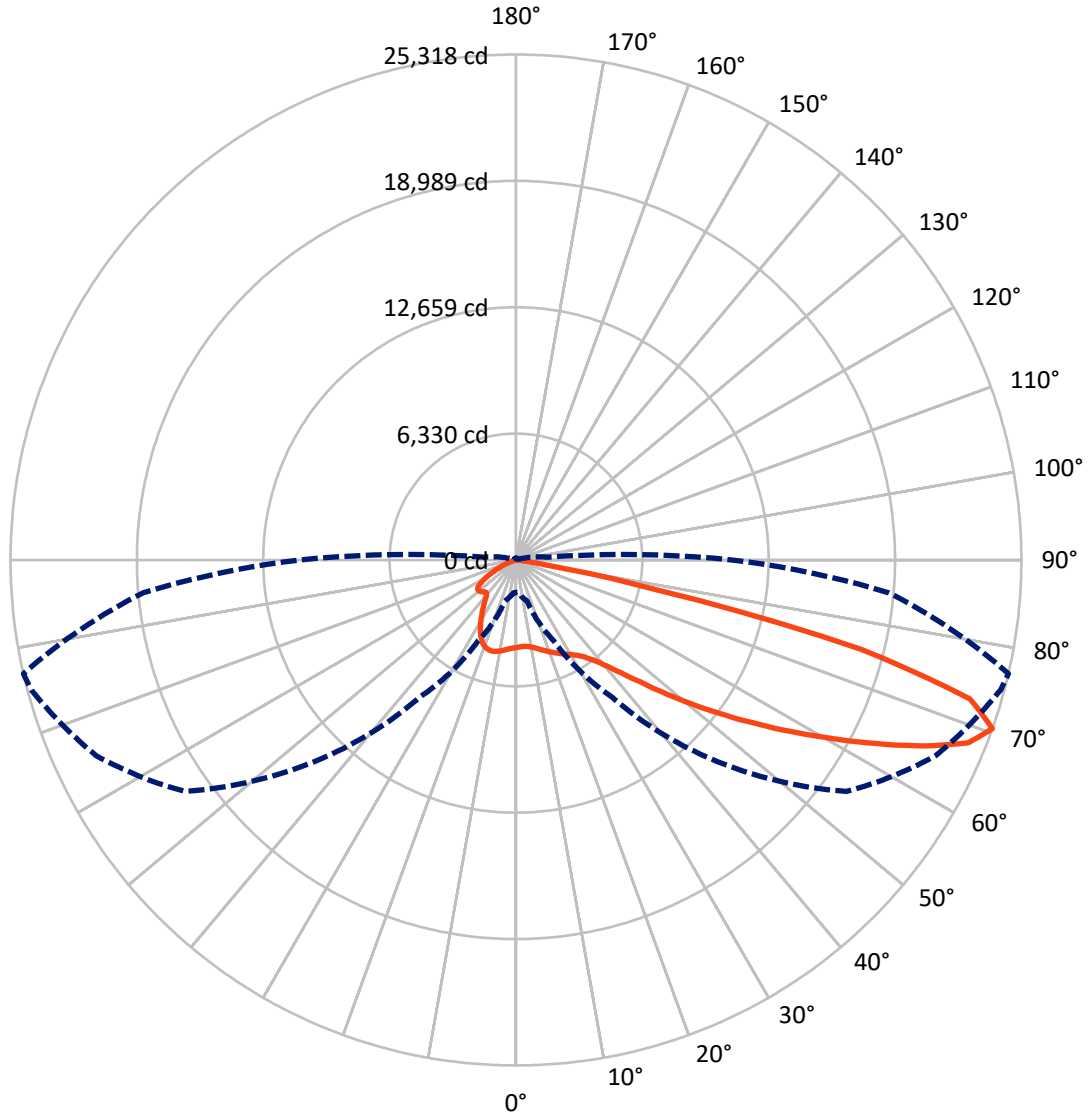
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	2962.0	0.0	2962.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	25137.0	0.0	25137.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	28099.0	0.0	28099.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.7	1.3
10°-20°	896.7	3.2
20°-30°	1387.0	4.9
30°-40°	2516.7	9.0
40°-50°	4750.6	16.9
50°-60°	6864.2	24.4
60°-70°	7306.8	26.0
70°-80°	3872.1	13.8
80°-90°	127.1	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°	28099.0	100.0
0°-180°	28099.0	100.0

**Coefficient of Utilization**



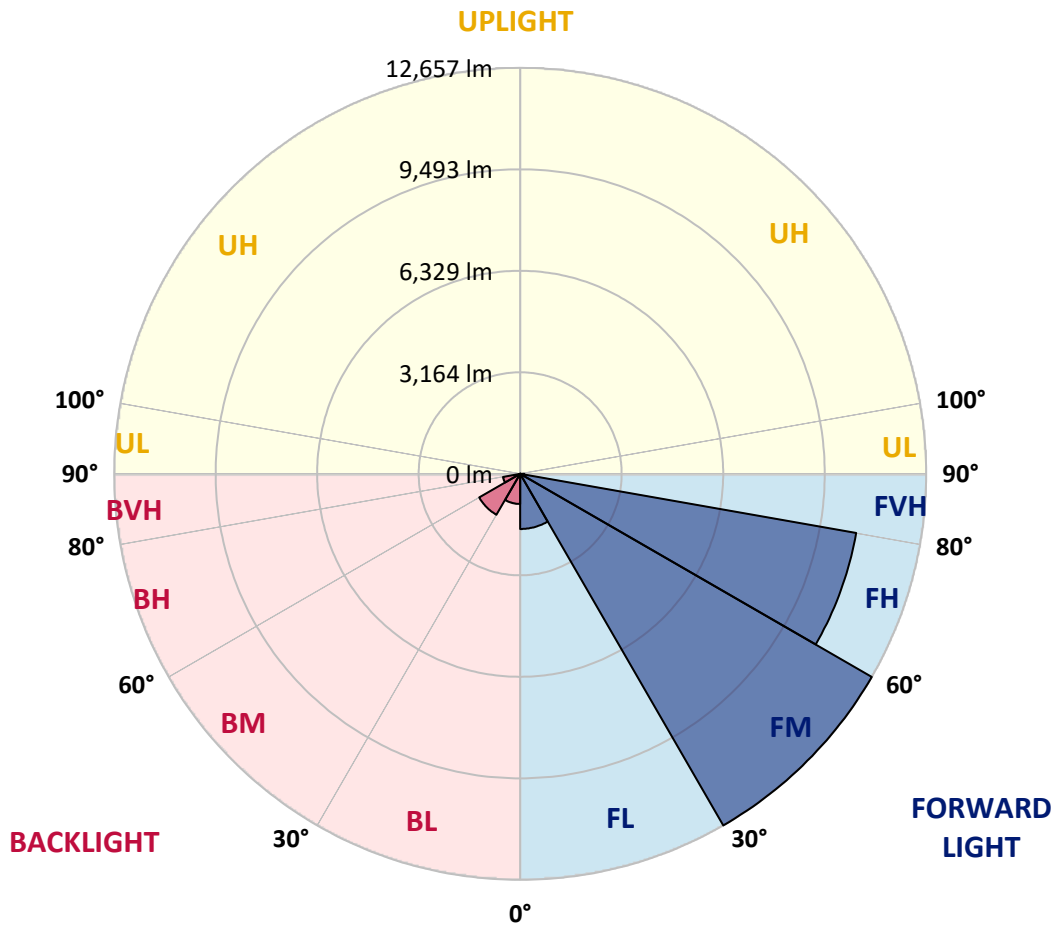
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.3	6.1			
FM (30°-60°)	12657.1	45.0			
FH (60°-80°)	10635.9	37.9			G4/12000
FVH (80°-90°)	123.7	0.4			G2/225
BL (0°-30°)	941.1	3.3	B2/1000		
BM (30°-60°)	1474.5	5.2	B2/2500		
BH (60°-80°)	543.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.4	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°	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9
2.5°	4115.0	4152.3	4146.9	4171.8	4180.6	4216.1	4251.6	4299.5	4352.8	4351.0
5°	3882.5	3919.8	3928.7	3962.4	4005.0	4060.0	4132.7	4228.6	4327.9	4343.9
7.5°	3607.5	3646.5	3669.6	3737.0	3815.1	3928.7	4047.6	4187.7	4352.8	4375.8
10°	3332.5	3367.9	3398.1	3493.9	3618.1	3786.7	3980.1	4182.4	4404.2	4437.9
12.5°	3162.1	3195.8	3229.5	3312.9	3467.3	3673.1	3935.8	4207.3	4489.4	4537.3
15°	3101.8	3131.9	3158.6	3233.1	3376.8	3611.0	3926.9	4258.7	4597.6	4661.5
17.5°	3110.6	3126.6	3144.4	3201.1	3341.3	3582.7	3942.9	4347.4	4725.4	4782.2
20°	3162.1	3171.0	3172.7	3211.8	3336.0	3579.1	3974.8	4432.6	4846.1	4922.4
22.5°	3227.8	3231.3	3227.8	3254.4	3369.7	3605.7	4017.4	4535.5	4980.9	5051.9
25°	3534.7	3467.3	3382.1	3330.7	3426.5	3657.2	4081.3	4673.9	5128.2	5197.4
27.5°	4487.6	4294.2	3989.0	3646.5	3543.6	3731.7	4170.0	4814.1	5277.3	5339.4
30°	6035.0	5781.2	5263.1	4491.2	3919.8	3887.9	4285.3	4954.3	5435.2	5502.6
32.5°	7585.9	7523.7	6925.7	5857.5	4766.2	4235.7	4477.0	5144.2	5644.6	5697.8
35°	9154.5	9028.5	8538.7	7482.9	6070.5	4943.7	4796.4	5392.6	5919.6	5980.0
37.5°	10355.8	10279.5	9976.1	9106.6	7617.8	6036.7	5342.9	5777.7	6318.9	6386.3
40°	11416.9	11381.4	11278.5	10705.4	9347.9	7467.0	6192.9	6373.9	6872.5	6952.4
42.5°	12250.9	12334.3	12392.9	12233.2	11131.2	9099.5	7335.7	7211.4	7644.4	7726.0
45°	13104.4	13132.8	13368.8	13599.5	12902.2	10806.5	8623.9	8192.7	8604.4	8705.5
47.5°	13652.8	13766.3	14181.6	14587.9	14390.9	12499.4	10008.0	9351.4	9717.0	9906.9
50°	13693.6	13908.3	14479.7	15187.7	15475.1	14110.6	11512.7	10671.7	11060.3	11269.6
52.5°	13013.9	13347.5	14233.0	15269.3	16060.7	15475.1	13069.0	11991.9	12490.5	12763.7
55°	9977.8	10414.4	13305.0	14825.7	16083.8	16509.7	14584.4	13367.1	14084.0	14392.7
57.5°	8693.1	8913.2	10460.5	14055.6	15656.1	16926.7	15954.2	14676.6	15817.6	16200.9
60°	7232.7	7522.0	8773.0	12795.7	15075.9	16967.5	17164.4	16365.9	17696.8	18128.0
62.5°	4915.3	5229.4	6473.3	10630.8	14282.7	16947.9	18156.4	18104.9	19785.3	20248.5
65°	3045.0	3242.0	4061.8	8680.7	13173.7	16969.2	19194.4	20216.5	21989.2	22459.4
67.5°	2406.2	2496.7	2924.3	6664.9	11262.5	16490.1	20230.7	22202.1	24063.6	24436.2
70°	1616.5	1671.5	2127.6	4468.1	8379.0	14279.1	20211.2	23199.4	25131.8	25318.1
72.5°	851.7	894.3	1243.9	2069.0	5060.8	10150.0	17036.7	22007.0	24068.9	23788.5
75°	425.9	496.9	837.5	1050.5	2161.3	5660.6	10579.4	17350.8	18944.2	17858.2
77.5°	323.0	390.4	692.0	692.0	752.4	1905.8	4480.5	9463.2	8728.6	7268.2
80°	205.8	266.2	605.1	523.5	314.1	484.4	1167.6	2651.1	1854.3	1410.7
82.5°	120.7	173.9	503.9	346.0	175.7	179.2	330.1	564.3	480.9	374.4
85°	47.9	113.6	346.0	136.6	69.2	44.4	99.4	120.7	99.4	74.5
87.5°	0.0	26.6	60.3	0.0	5.3	3.5	7.1	8.9	8.9	7.1
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°
4382.9	0°	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9	4382.9
4386.5	2.5°	4402.5	4406.0	4416.7	4418.4	4393.6	4361.6	4349.2	4343.9	4322.6	4320.8
4414.9	5°	4455.7	4471.7	4455.7	4409.6	4299.5	4145.2	4028.0	3932.2	3845.3	3818.7
4512.5	7.5°	4562.2	4578.1	4530.2	4349.2	4072.4	3765.4	3488.6	3293.4	3117.7	3052.1
4631.4	10°	4714.8	4736.1	4585.2	4219.7	3729.9	3236.6	2768.2	2438.1	2180.8	2076.1
4792.8	12.5°	4906.4	4915.3	4615.4	4022.7	3284.5	2580.1	1916.4	1563.3	1334.4	1249.2
4988.0	15°	5117.6	5105.1	4618.9	3754.8	2677.7	1824.2	1251.0	1027.4	935.1	906.8
5183.2	17.5°	5339.4	5287.9	4548.0	3367.9	2012.2	1247.5	928.0	874.8	858.8	851.7
5376.6	20°	5557.6	5442.3	4418.4	2862.2	1444.4	931.6	842.9	826.9	818.0	814.5
5571.8	22.5°	5756.4	5559.4	4196.6	2274.9	1048.7	823.4	796.7	782.5	766.6	759.5
5761.7	25°	5949.8	5626.8	3884.3	1726.6	839.3	770.1	748.8	722.2	700.9	692.0
5965.8	27.5°	6137.9	5669.4	3493.9	1277.6	748.8	720.4	681.4	644.1	628.2	624.6
6184.0	30°	6338.4	5683.6	3050.3	952.9	693.8	658.3	601.5	559.0	550.1	551.9
6478.6	32.5°	6583.3	5704.9	2603.1	780.8	647.7	583.8	516.4	472.0	464.9	472.0
6908.0	35°	6876.1	5747.5	2171.9	718.7	606.9	507.5	434.7	397.5	390.4	395.7
7458.1	37.5°	7273.5	5816.7	1769.1	706.2	573.2	443.6	365.5	335.4	335.4	337.1
8132.4	40°	7802.3	6001.3	1408.9	697.4	555.4	395.7	308.8	296.3	301.7	305.2
8991.2	42.5°	8446.5	6393.4	1165.8	686.7	535.9	374.4	280.4	275.0	283.9	287.5
10020.4	45°	9168.7	6890.3	1080.7	669.0	518.1	388.6	267.9	260.8	271.5	273.3
11173.8	47.5°	9915.7	7376.5	1070.0	649.5	500.4	409.9	264.4	248.4	260.8	262.6
12405.3	50°	10671.7	7694.1	1080.7	619.3	472.0	409.9	266.2	236.0	246.7	252.0
13682.9	52.5°	11432.9	7839.6	1073.6	553.6	422.3	385.1	266.2	225.4	236.0	239.6
15063.5	55°	12171.1	7811.2	965.3	456.0	358.4	340.7	259.1	216.5	223.6	225.4
16367.7	57.5°	12754.9	7415.5	764.8	354.9	291.0	283.9	236.0	205.8	211.2	209.4
17563.7	60°	13060.1	6546.0	546.5	273.3	228.9	223.6	207.6	191.6	195.2	186.3
18576.9	62.5°	13063.6	5396.2	365.5	216.5	182.8	177.4	177.4	172.1	168.6	150.8
19361.2	65°	12785.0	4120.3	243.1	172.1	147.3	138.4	149.1	147.3	134.9	110.0
19600.8	67.5°	12153.3	2700.7	184.5	134.9	113.6	108.2	118.9	124.2	115.3	92.3
18727.7	70°	10854.4	1572.2	152.6	104.7	85.2	79.9	95.8	106.5	95.8	74.5
16007.5	72.5°	9016.1	848.2	124.2	78.1	58.6	53.2	76.3	86.9	76.3	55.0
10270.6	75°	5850.4	454.3	95.8	51.5	30.2	33.7	56.8	63.9	53.2	35.5
3014.8	77.5°	1964.3	200.5	60.3	24.8	14.2	14.2	33.7	39.0	24.8	12.4
548.3	80°	438.3	83.4	24.8	10.6	5.3	5.3	7.1	7.1	3.5	0.0
168.6	82.5°	143.7	33.7	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
42.6	85°	55.0	12.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.2	87.5°	21.3	1.8	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°
4382.9
4324.4
3802.7
3025.5
2031.8
1222.6
906.8
850.0
810.9
757.7
688.5
621.1
551.9
470.2
393.9
335.4
305.2
287.5
275.0
264.4
253.7
239.6
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