

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: P954990

Luminaire Tested: **GALN-SB8A-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954990
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-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 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: 26259 lumens
Efficiency: N/A
Efficacy: 115.6 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

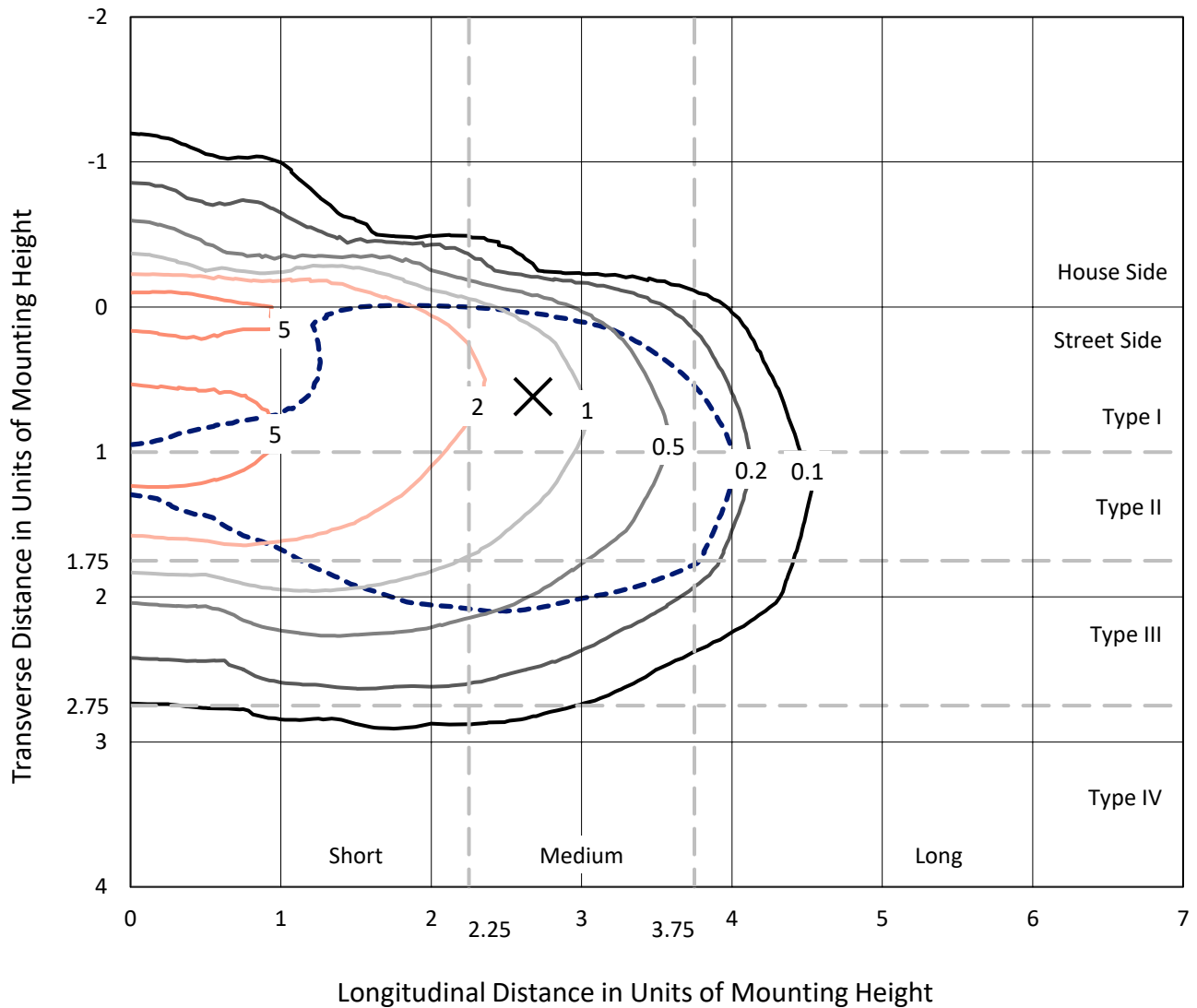
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954990
 CATALOG NUMBER: GALN-SB8A-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

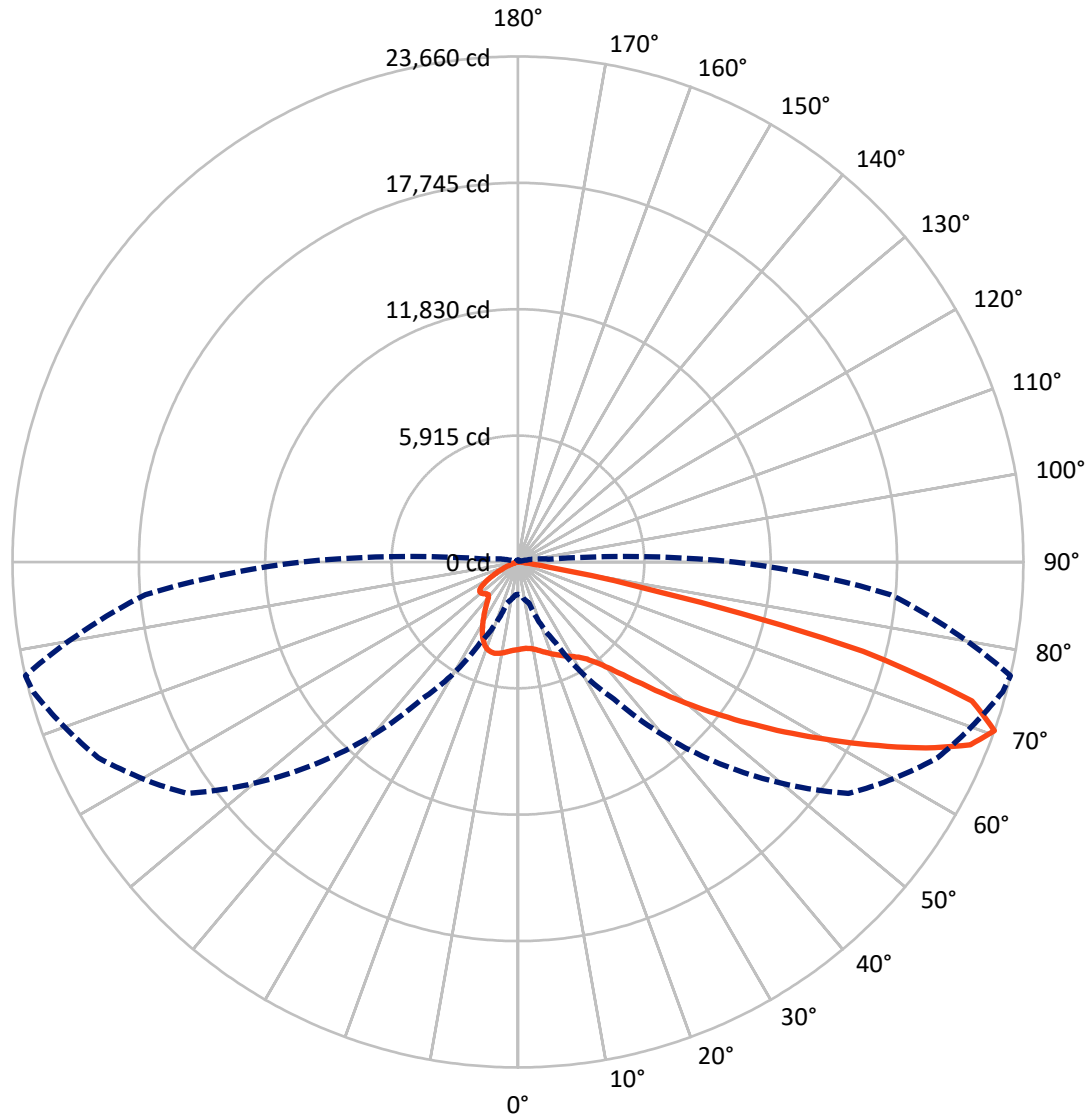
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P954990
CATALOG NUMBER: GALN-SB8A-827-U-T3R-HSS

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	2768.1	0.0	2768.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23490.9	0.0	23490.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	26259.0	0.0	26259.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	1.3
10°-20°	838.0	3.2
20°-30°	1296.1	4.9
30°-40°	2351.9	9.0
40°-50°	4439.5	16.9
50°-60°	6414.7	24.4
60°-70°	6828.3	26.0
70°-80°	3618.5	13.8
80°-90°	118.8	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°	26259.0	100.0
0°-180°	26259.0	100.0



REPORT NUMBER: P954990

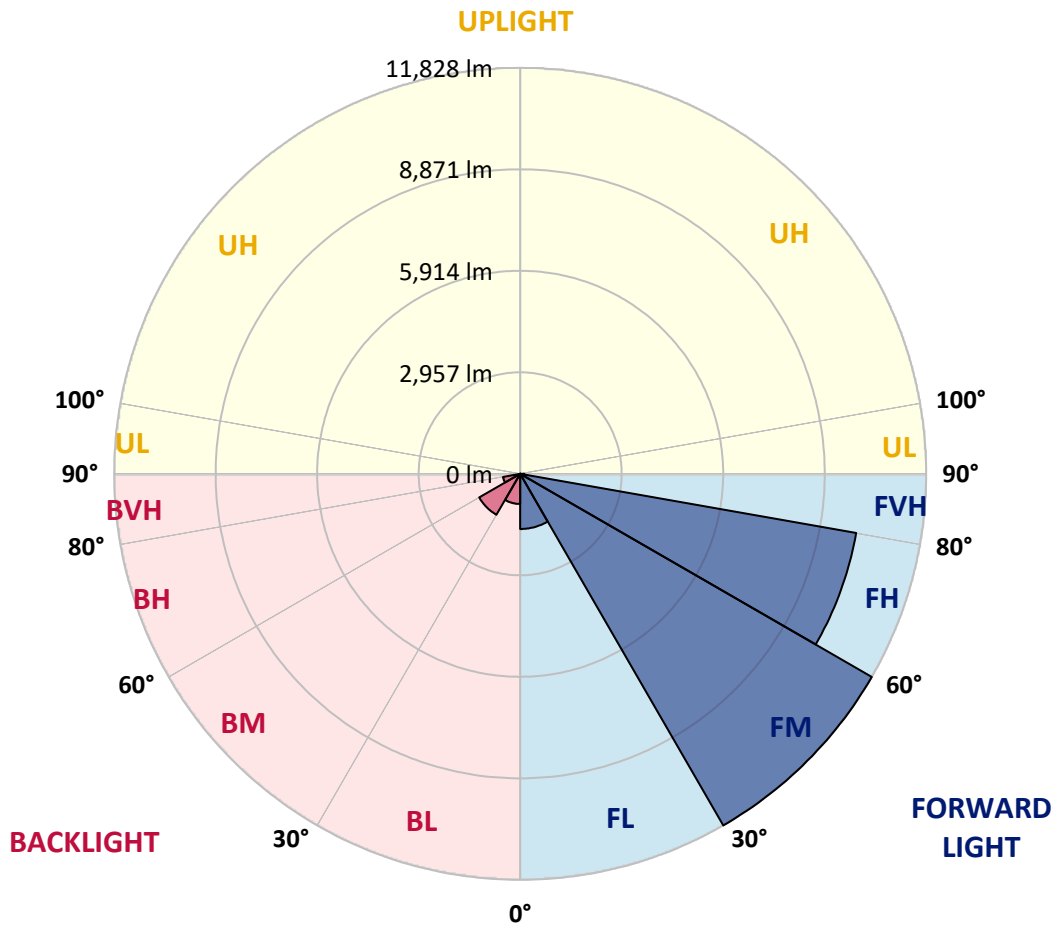
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.7	6.1			
FM (30°-60°)	11828.2	45.0			
FH (60°-80°)	9939.4	37.9			G4/12000
FVH (80°-90°)	115.6	0.4			G2/225
BL (0°-30°)	879.5	3.3	B2/1000		
BM (30°-60°)	1378.0	5.2	B2/2500		
BH (60°-80°)	507.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.2	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-G4

Type III Medium



REPORT NUMBER: P954990
 CATALOG NUMBER: GALN-SB8A-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9
2.5°	3845.5	3880.4	3875.4	3898.6	3906.9	3940.1	3973.2	4018.0	4067.7	4066.1
5°	3628.3	3663.1	3671.4	3702.9	3742.7	3794.1	3862.1	3951.7	4044.5	4059.4
7.5°	3371.3	3407.7	3429.3	3492.3	3565.3	3671.4	3782.5	3913.5	4067.7	4089.3
10°	3114.2	3147.4	3175.6	3265.1	3381.2	3538.8	3719.5	3908.5	4115.8	4147.3
12.5°	2955.0	2986.5	3018.1	3096.0	3240.3	3432.6	3678.0	3931.8	4195.4	4240.2
15°	2898.7	2926.8	2951.7	3021.4	3155.7	3374.6	3669.8	3979.9	4296.6	4356.3
17.5°	2906.9	2921.9	2938.5	2991.5	3122.5	3348.0	3684.7	4062.8	4416.0	4469.0
20°	2955.0	2963.3	2965.0	3001.5	3117.5	3344.7	3714.5	4142.4	4528.7	4600.0
22.5°	3016.4	3019.7	3016.4	3041.3	3149.1	3369.6	3754.3	4238.5	4654.8	4721.1
25°	3303.3	3240.3	3160.7	3112.6	3202.1	3417.7	3814.0	4367.9	4792.4	4857.1
27.5°	4193.8	4013.0	3727.8	3407.7	3311.6	3487.3	3896.9	4498.9	4931.7	4989.7
30°	5639.8	5402.6	4918.4	4197.1	3663.1	3633.3	4004.7	4629.9	5079.3	5142.3
32.5°	7089.1	7031.1	6472.2	5474.0	4454.1	3958.3	4183.8	4807.3	5275.0	5324.7
35°	8555.0	8437.3	7979.6	6992.9	5672.9	4619.9	4482.3	5039.5	5532.0	5588.4
37.5°	9677.7	9606.4	9322.8	8510.2	7119.0	5641.4	4993.1	5399.3	5905.1	5968.1
40°	10669.3	10636.2	10540.0	10004.3	8735.8	6978.0	5787.4	5956.5	6422.5	6497.1
42.5°	11448.7	11526.6	11581.4	11432.1	10402.3	8503.6	6855.3	6739.2	7143.8	7220.1
45°	12246.3	12272.9	12493.4	12709.0	12057.3	10098.9	8059.2	7656.2	8041.0	8135.5
47.5°	12758.7	12864.9	13252.9	13632.6	13448.6	11680.9	9352.6	8739.1	9080.7	9258.1
50°	12796.9	12997.5	13531.5	14193.1	14461.8	13186.6	10758.9	9972.8	10336.0	10531.7
52.5°	12161.8	12473.5	13301.0	14269.4	15009.0	14461.8	12213.2	11206.6	11672.6	11927.9
55°	9324.5	9732.4	12433.7	13854.9	15030.6	15428.6	13629.3	12491.8	13161.7	13450.2
57.5°	8123.9	8329.5	9775.5	13135.2	14630.9	15818.2	14909.5	13715.6	14781.8	15140.0
60°	6759.1	7029.4	8198.5	11957.8	14088.7	15856.4	16040.5	15294.2	16537.9	16940.9
62.5°	4593.4	4886.9	6049.4	9934.7	13347.4	15838.1	16967.4	16919.3	18489.7	18922.5
65°	2845.6	3029.7	3795.8	8112.3	12311.0	15858.0	17937.5	18892.7	20549.3	20988.7
67.5°	2248.6	2333.2	2732.8	6228.5	10525.0	15410.3	18905.9	20748.3	22487.8	22836.1
70°	1510.7	1562.1	1988.3	4175.5	7830.4	13344.1	18887.7	21680.2	23486.1	23660.2
72.5°	796.0	835.8	1162.4	1933.5	4729.4	9485.3	15921.1	20565.9	22492.8	22230.8
75°	398.0	464.3	782.7	981.7	2019.8	5289.9	9886.6	16214.6	17703.7	16688.8
77.5°	301.8	364.8	646.7	646.7	703.1	1781.0	4187.1	8843.6	8157.0	6792.3
80°	192.4	248.7	565.5	489.2	293.5	452.7	1091.1	2477.5	1732.9	1318.3
82.5°	112.8	162.5	470.9	323.4	164.2	167.5	308.4	527.3	449.4	349.9
85°	44.8	106.1	323.4	127.7	64.7	41.5	92.9	112.8	92.9	69.6
87.5°	0.0	24.9	56.4	0.0	5.0	3.3	6.6	8.3	8.3	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954990
 CATALOG NUMBER: GALN-SB8A-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4095.9	0°	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9	4095.9
4099.2	2.5°	4114.2	4117.5	4127.4	4129.1	4105.9	4076.0	4064.4	4059.4	4039.5	4037.9
4125.8	5°	4163.9	4178.8	4163.9	4120.8	4018.0	3873.7	3764.3	3674.7	3593.5	3568.6
4217.0	7.5°	4263.4	4278.3	4233.6	4064.4	3805.7	3518.9	3260.2	3077.8	2913.6	2852.2
4328.1	10°	4406.0	4425.9	4285.0	3943.4	3485.7	3024.7	2586.9	2278.5	2038.0	1940.2
4479.0	12.5°	4585.1	4593.4	4313.2	3759.3	3069.5	2411.1	1790.9	1460.9	1247.0	1167.4
4661.4	15°	4782.5	4770.8	4316.5	3508.9	2502.3	1704.7	1169.1	960.1	873.9	847.4
4843.8	17.5°	4989.7	4941.6	4250.1	3147.4	1880.5	1165.8	867.3	817.5	802.6	796.0
5024.6	20°	5193.7	5085.9	4129.1	2674.8	1349.8	870.6	787.7	772.8	764.5	761.1
5207.0	22.5°	5379.4	5195.4	3921.8	2125.9	980.0	769.4	744.6	731.3	716.4	709.7
5384.4	25°	5560.2	5258.4	3630.0	1613.5	784.4	719.7	699.8	674.9	655.0	646.7
5575.1	27.5°	5736.0	5298.2	3265.1	1194.0	699.8	673.3	636.8	602.0	587.0	583.7
5779.1	30°	5923.3	5311.4	2850.6	890.5	648.4	615.2	562.2	522.4	514.1	515.7
6054.3	32.5°	6152.2	5331.3	2432.7	729.6	605.3	545.6	482.6	441.1	434.5	441.1
6455.6	35°	6425.8	5371.1	2029.7	671.6	567.1	474.3	406.3	371.5	364.8	369.8
6969.7	37.5°	6797.3	5435.8	1653.3	660.0	535.6	414.6	341.6	313.4	313.4	315.1
7599.9	40°	7291.4	5608.3	1316.7	651.7	519.0	369.8	288.5	276.9	281.9	285.2
8402.5	42.5°	7893.4	5974.8	1089.5	641.8	500.8	349.9	262.0	257.0	265.3	268.6
9364.3	45°	8568.3	6439.1	1009.9	625.2	484.2	363.2	250.4	243.8	253.7	255.4
10442.1	47.5°	9266.4	6893.4	999.9	606.9	467.6	383.1	247.1	232.2	243.8	245.4
11593.0	50°	9972.8	7190.3	1009.9	578.7	441.1	383.1	248.7	220.6	230.5	235.5
12786.9	52.5°	10684.2	7326.2	1003.3	517.4	394.7	359.8	248.7	210.6	220.6	223.9
14077.1	55°	11374.1	7299.7	902.1	426.2	335.0	318.4	242.1	202.3	208.9	210.6
15295.9	57.5°	11919.7	6929.9	714.7	331.7	272.0	265.3	220.6	192.4	197.3	195.7
16413.6	60°	12204.9	6117.4	510.7	255.4	213.9	208.9	194.0	179.1	182.4	174.1
17360.4	62.5°	12208.2	5042.8	341.6	202.3	170.8	165.8	165.8	160.9	157.5	141.0
18093.4	65°	11947.8	3850.5	227.2	160.9	137.6	129.3	139.3	137.6	126.0	102.8
18317.3	67.5°	11357.5	2523.9	172.5	126.0	106.1	101.2	111.1	116.1	107.8	86.2
17501.4	70°	10143.6	1469.2	142.6	97.8	79.6	74.6	89.5	99.5	89.5	69.6
14959.3	72.5°	8425.7	792.7	116.1	73.0	54.7	49.7	71.3	81.3	71.3	51.4
9598.1	75°	5467.3	424.5	89.5	48.1	28.2	31.5	53.1	59.7	49.7	33.2
2817.4	77.5°	1835.7	187.4	56.4	23.2	13.3	13.3	31.5	36.5	23.2	11.6
512.4	80°	409.6	77.9	23.2	9.9	5.0	5.0	6.6	6.6	3.3	0.0
157.5	82.5°	134.3	31.5	9.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
39.8	85°	51.4	11.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.3	87.5°	19.9	1.7	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°
4095.9
4041.2
3553.7
2827.4
1898.7
1142.5
847.4
794.3
757.8
708.1
643.4
580.4
515.7
439.4
368.1
313.4
285.2
268.6
257.0
247.1
237.1
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