

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: P953478

Luminaire Tested: **GALN-SB7A-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953478
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-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 26559 lumens
Efficiency: N/A
Efficacy: 133.4 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

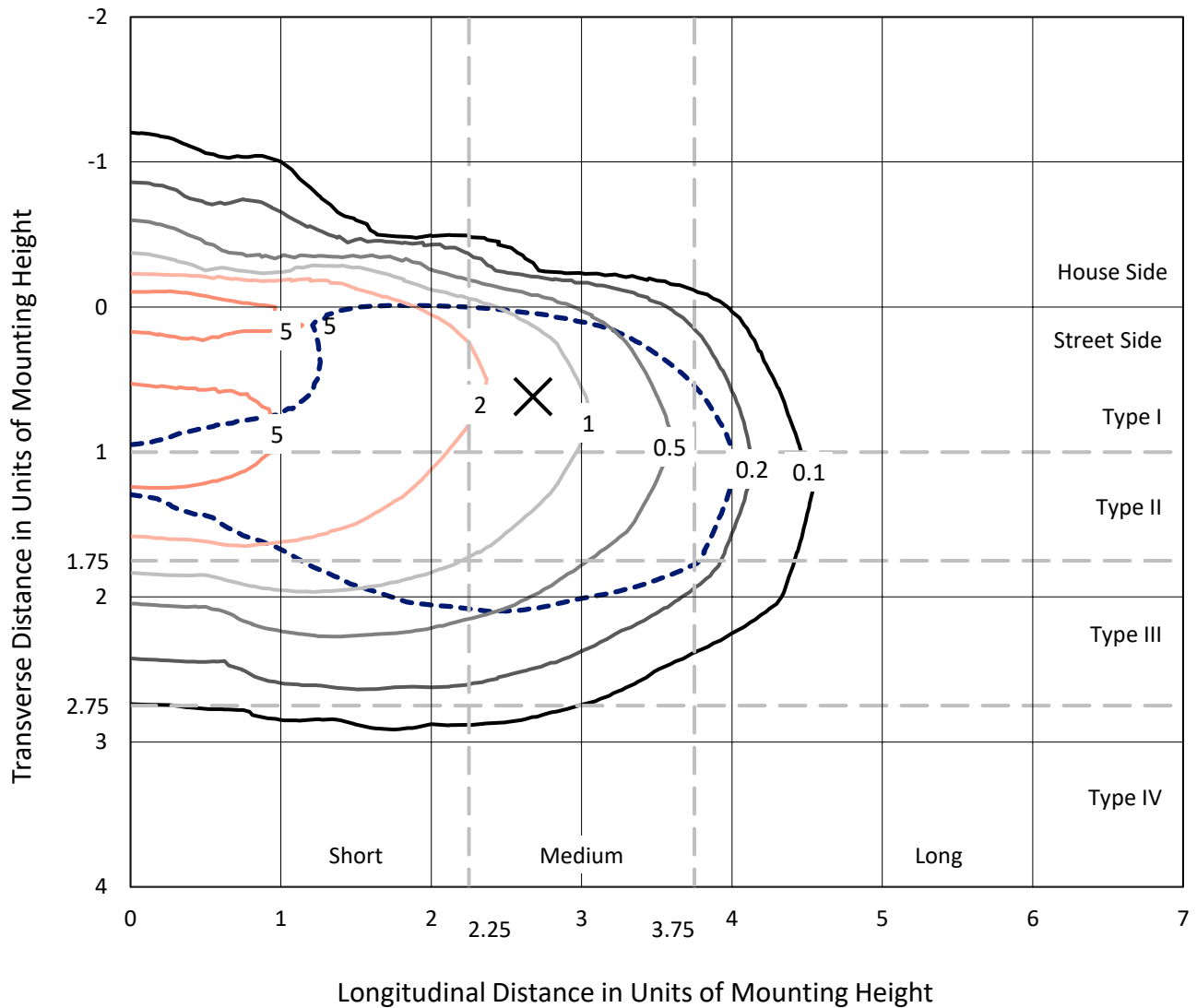
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

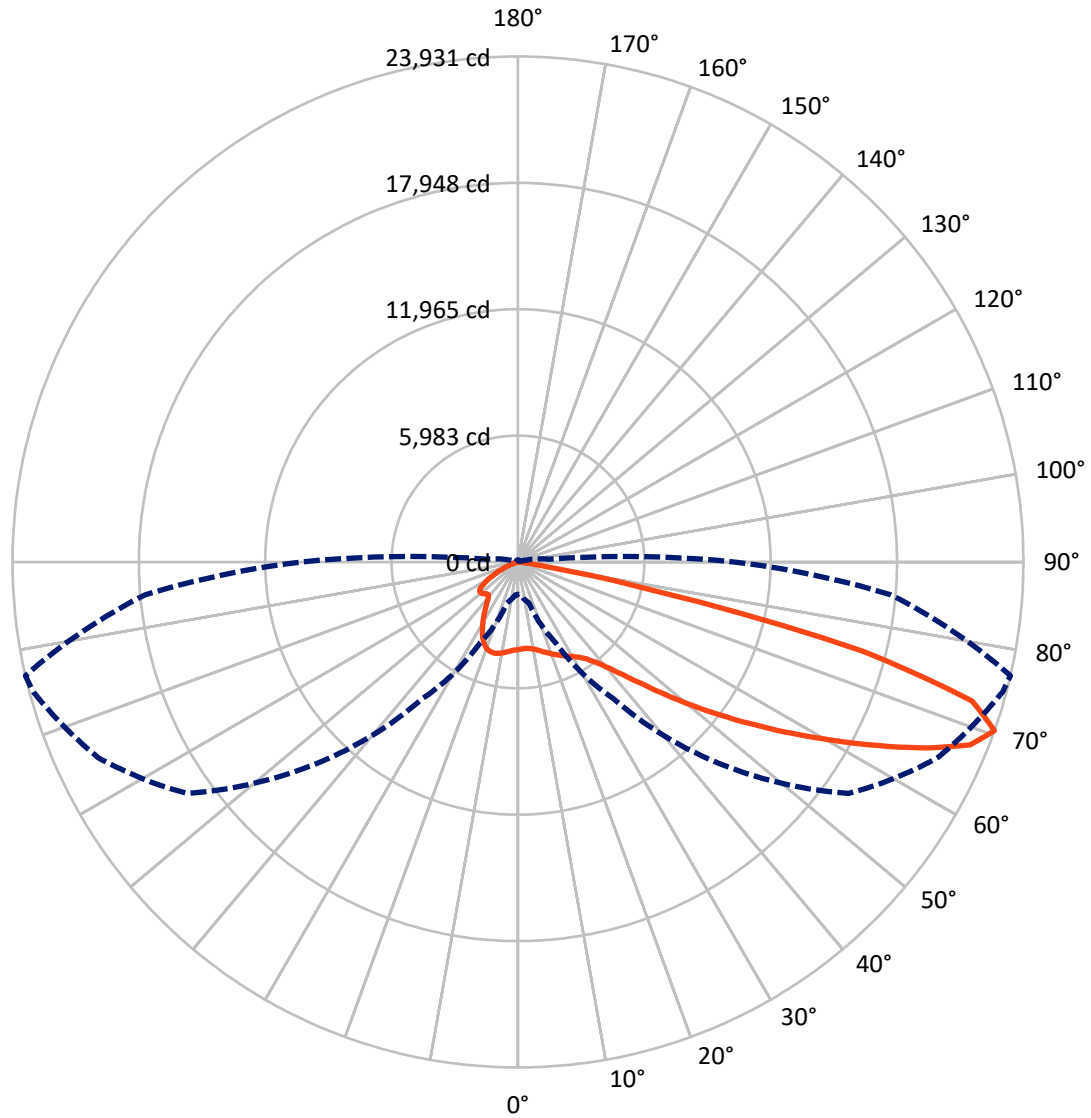
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	2799.7	0.0	2799.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23759.3	0.0	23759.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	26559.0	0.0	26559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.0	1.3
10°-20°	847.6	3.2
20°-30°	1310.9	4.9
30°-40°	2378.8	9.0
40°-50°	4490.2	16.9
50°-60°	6488.0	24.4
60°-70°	6906.3	26.0
70°-80°	3659.9	13.8
80°-90°	120.2	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°	26559.0	100.0
0°-180°	26559.0	100.0

Coefficient of Utilization



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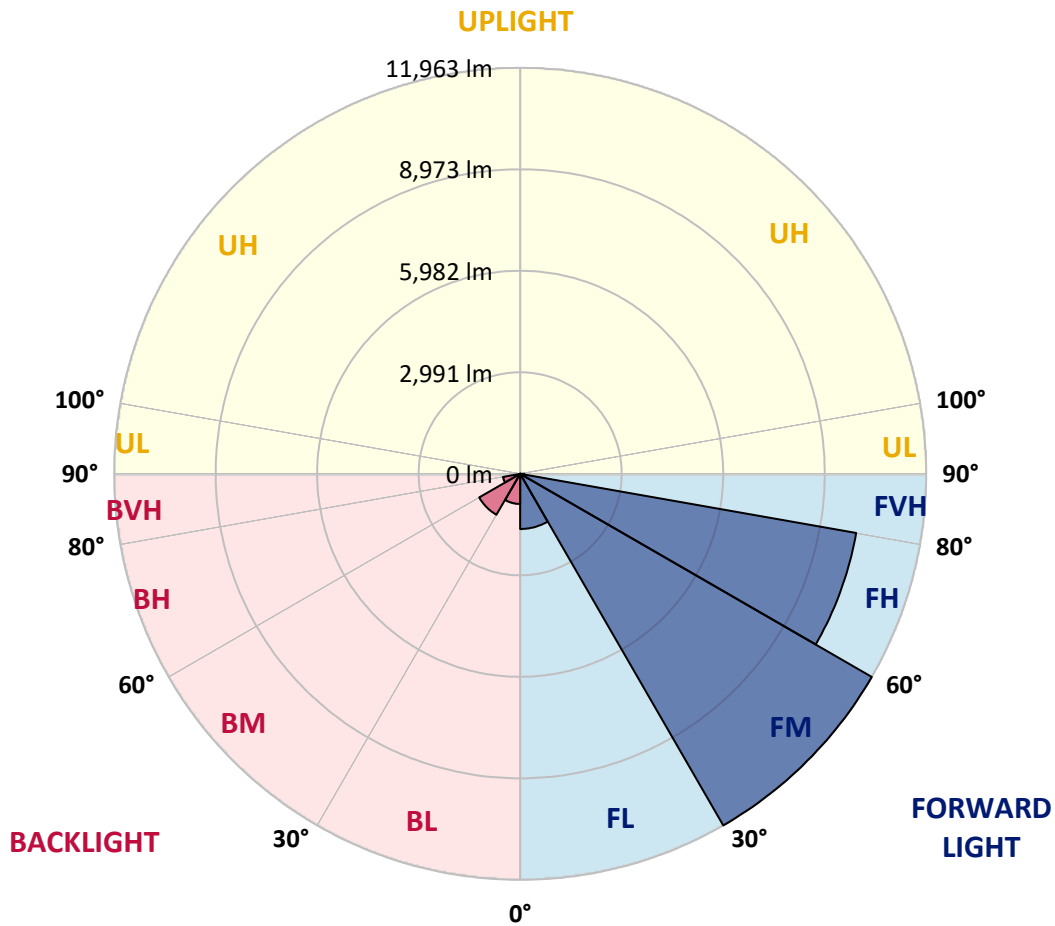
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.0	6.1			
FM (30°-60°)	11963.4	45.0			
FH (60°-80°)	10053.0	37.9			G4/12000
FVH (80°-90°)	116.9	0.4			G2/225
BL (0°-30°)	889.5	3.3	B2/1000		
BM (30°-60°)	1393.7	5.2	B2/2500		
BH (60°-80°)	513.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7
2.5°	3889.5	3924.7	3919.7	3943.1	3951.5	3985.1	4018.6	4063.9	4114.2	4112.5
5°	3669.7	3705.0	3713.4	3745.2	3785.5	3837.5	3906.2	3996.8	4090.7	4105.8
7.5°	3409.8	3446.7	3468.5	3532.2	3606.0	3713.4	3825.7	3958.2	4114.2	4136.0
10°	3149.8	3183.4	3211.9	3302.4	3419.8	3579.2	3762.0	3953.2	4162.9	4194.7
12.5°	2988.8	3020.7	3052.5	3131.4	3277.3	3471.8	3720.1	3976.7	4243.4	4288.6
15°	2931.8	2960.3	2985.4	3055.9	3191.7	3413.1	3711.7	4025.3	4345.7	4406.0
17.5°	2940.2	2955.3	2972.0	3025.7	3158.2	3386.3	3726.8	4109.2	4466.4	4520.1
20°	2988.8	2997.2	2998.9	3035.8	3153.2	3382.9	3757.0	4189.7	4580.5	4652.6
22.5°	3050.9	3054.2	3050.9	3076.0	3185.0	3408.1	3797.2	4287.0	4707.9	4775.0
25°	3341.0	3277.3	3196.8	3148.1	3238.7	3456.7	3857.6	4417.8	4847.2	4912.6
27.5°	4241.7	4058.9	3770.4	3446.7	3349.4	3527.2	3941.5	4550.3	4988.0	5046.7
30°	5704.2	5464.4	4974.6	4245.0	3705.0	3674.8	4050.5	4682.8	5137.3	5201.0
32.5°	7170.1	7111.4	6546.2	5536.5	4505.0	4003.5	4231.6	4862.3	5335.2	5385.5
35°	8652.8	8533.7	8070.8	7072.8	5737.8	4672.7	4533.5	5097.1	5595.2	5652.2
37.5°	9788.2	9716.1	9429.3	8607.5	7200.3	5705.9	5050.1	5461.0	5972.6	6036.3
40°	10791.2	10757.7	10660.4	10118.6	8835.6	7057.7	5853.5	6024.6	6495.9	6571.3
42.5°	11579.5	11658.3	11713.7	11562.7	10521.2	8600.8	6933.6	6816.2	7225.4	7302.6
45°	12386.2	12413.1	12636.1	12854.2	12195.0	10214.2	8151.3	7743.7	8132.8	8228.4
47.5°	12904.5	13011.8	13404.3	13788.4	13602.2	11814.3	9459.5	8838.9	9184.4	9363.9
50°	12943.1	13146.0	13686.1	14355.3	14627.0	13337.2	10881.8	10086.8	10454.1	10652.0
52.5°	12300.7	12616.0	13453.0	14432.4	15180.5	14627.0	12352.7	11334.6	11805.9	12064.2
55°	9431.0	9843.6	12575.8	14013.1	15202.3	15604.8	13785.0	12634.5	13312.1	13603.9
57.5°	8216.7	8424.7	9887.2	13285.2	14798.1	15999.0	15079.9	13872.3	14950.7	15313.0
60°	6836.3	7109.7	8292.2	12094.4	14249.6	16037.5	16223.7	15469.0	16726.9	17134.4
62.5°	4645.9	4942.8	6118.5	10048.2	13499.9	16019.1	17161.3	17112.6	18701.0	19138.7
65°	2878.1	3064.3	3839.1	8204.9	12451.7	16039.2	18142.4	19108.5	20784.1	21228.5
67.5°	2274.3	2359.8	2764.1	6299.6	10645.3	15586.4	19121.9	20985.3	22744.7	23096.9
70°	1527.9	1579.9	2011.0	4223.2	7919.8	13496.6	19103.5	21927.9	23754.4	23930.5
72.5°	805.1	845.3	1175.7	1955.6	4783.4	9593.7	16103.0	20800.8	22749.8	22484.8
75°	402.5	469.6	791.6	992.9	2042.8	5350.3	9999.6	16399.8	17906.0	16879.5
77.5°	305.3	369.0	654.1	654.1	711.1	1801.3	4235.0	8944.6	8250.2	6869.9
80°	194.6	251.6	571.9	494.8	296.9	457.9	1103.6	2505.8	1752.7	1333.4
82.5°	114.1	164.4	476.3	327.1	166.0	169.4	312.0	533.4	454.5	353.9
85°	45.3	107.3	327.1	129.1	65.4	41.9	93.9	114.1	93.9	70.4
87.5°	0.0	25.2	57.0	0.0	5.0	3.4	6.7	8.4	8.4	6.7
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°
4142.7	0°	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7	4142.7
4146.1	2.5°	4161.2	4164.5	4174.6	4176.3	4152.8	4122.6	4110.9	4105.8	4085.7	4084.0
4172.9	5°	4211.5	4226.6	4211.5	4167.9	4063.9	3918.0	3807.3	3716.7	3634.5	3609.4
4265.2	7.5°	4312.1	4327.2	4281.9	4110.9	3849.2	3559.1	3297.4	3112.9	2946.9	2884.8
4377.5	10°	4456.4	4476.5	4333.9	3988.4	3525.5	3059.2	2616.5	2304.5	2061.3	1962.3
4530.2	12.5°	4637.5	4645.9	4362.4	3802.2	3104.5	2438.7	1811.4	1477.6	1261.3	1180.8
4714.7	15°	4837.1	4825.4	4365.8	3549.0	2530.9	1724.2	1182.4	971.1	883.9	857.1
4899.1	17.5°	5046.7	4998.1	4298.7	3183.4	1902.0	1179.1	877.2	826.9	811.8	805.1
5082.0	20°	5253.0	5144.0	4176.3	2705.3	1365.3	880.5	796.7	781.6	773.2	769.8
5266.5	22.5°	5440.9	5254.7	3966.6	2150.2	991.2	778.2	753.1	739.7	724.6	717.8
5445.9	25°	5623.7	5318.5	3671.4	1631.9	793.3	727.9	707.8	682.6	662.5	654.1
5638.8	27.5°	5801.5	5358.7	3302.4	1207.6	707.8	680.9	644.1	608.8	593.7	590.4
5845.1	30°	5991.0	5372.1	2883.1	900.7	655.8	622.2	568.6	528.3	519.9	521.6
6123.5	32.5°	6222.5	5392.3	2460.5	738.0	612.2	551.8	488.1	446.1	439.4	446.1
6529.4	35°	6499.2	5432.5	2052.9	679.3	573.6	479.7	410.9	375.7	369.0	374.0
7049.3	37.5°	6874.9	5497.9	1672.2	667.5	541.7	419.3	345.5	317.0	317.0	318.7
7686.7	40°	7374.7	5672.3	1331.7	659.1	525.0	374.0	291.8	280.1	285.1	288.5
8498.5	42.5°	7983.5	6043.0	1101.9	649.1	506.5	353.9	265.0	260.0	268.4	271.7
9471.2	45°	8666.2	6512.6	1021.4	632.3	489.7	367.3	253.3	246.6	256.6	258.3
10561.4	47.5°	9372.3	6972.2	1011.4	613.9	473.0	387.4	249.9	234.8	246.6	248.2
11725.4	50°	10086.8	7272.4	1021.4	585.3	446.1	387.4	251.6	223.1	233.1	238.2
12933.0	52.5°	10806.3	7409.9	1014.7	523.3	399.2	364.0	251.6	213.0	223.1	226.4
14237.9	55°	11504.0	7383.1	912.4	431.0	338.8	322.0	244.9	204.6	211.3	213.0
15470.6	57.5°	12055.8	7009.1	722.9	335.4	275.1	268.4	223.1	194.6	199.6	197.9
16601.1	60°	12344.3	6187.3	516.6	258.3	216.4	211.3	196.2	181.1	184.5	176.1
17558.8	62.5°	12347.7	5100.4	345.5	204.6	172.8	167.7	167.7	162.7	159.3	142.6
18300.1	65°	12084.3	3894.5	229.8	162.7	139.2	130.8	140.9	139.2	127.5	104.0
18526.5	67.5°	11487.3	2552.7	174.4	127.5	107.3	102.3	112.4	117.4	109.0	87.2
17701.3	70°	10259.5	1486.0	144.2	99.0	80.5	75.5	90.6	100.6	90.6	70.4
15130.2	72.5°	8521.9	801.7	117.4	73.8	55.3	50.3	72.1	82.2	72.1	52.0
9707.7	75°	5529.8	429.4	90.6	48.6	28.5	31.9	53.7	60.4	50.3	33.5
2849.6	77.5°	1856.7	189.5	57.0	23.5	13.4	13.4	31.9	36.9	23.5	11.7
518.3	80°	414.3	78.8	23.5	10.1	5.0	5.0	6.7	6.7	3.4	0.0
159.3	82.5°	135.9	31.9	10.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
40.3	85°	52.0	11.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.4	87.5°	20.1	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

<u>180°</u>
4142.7
4087.4
3594.3
2859.7
1920.4
1155.6
857.1
803.4
766.5
716.2
650.8
587.0
521.6
444.5
372.3
317.0
288.5
271.7
260.0
249.9
239.8
226.4
213.0
197.9
174.4
137.5
100.6
85.5
67.1
50.3
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