

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: P943036

Luminaire Tested: **GALN-SB7B-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27311 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

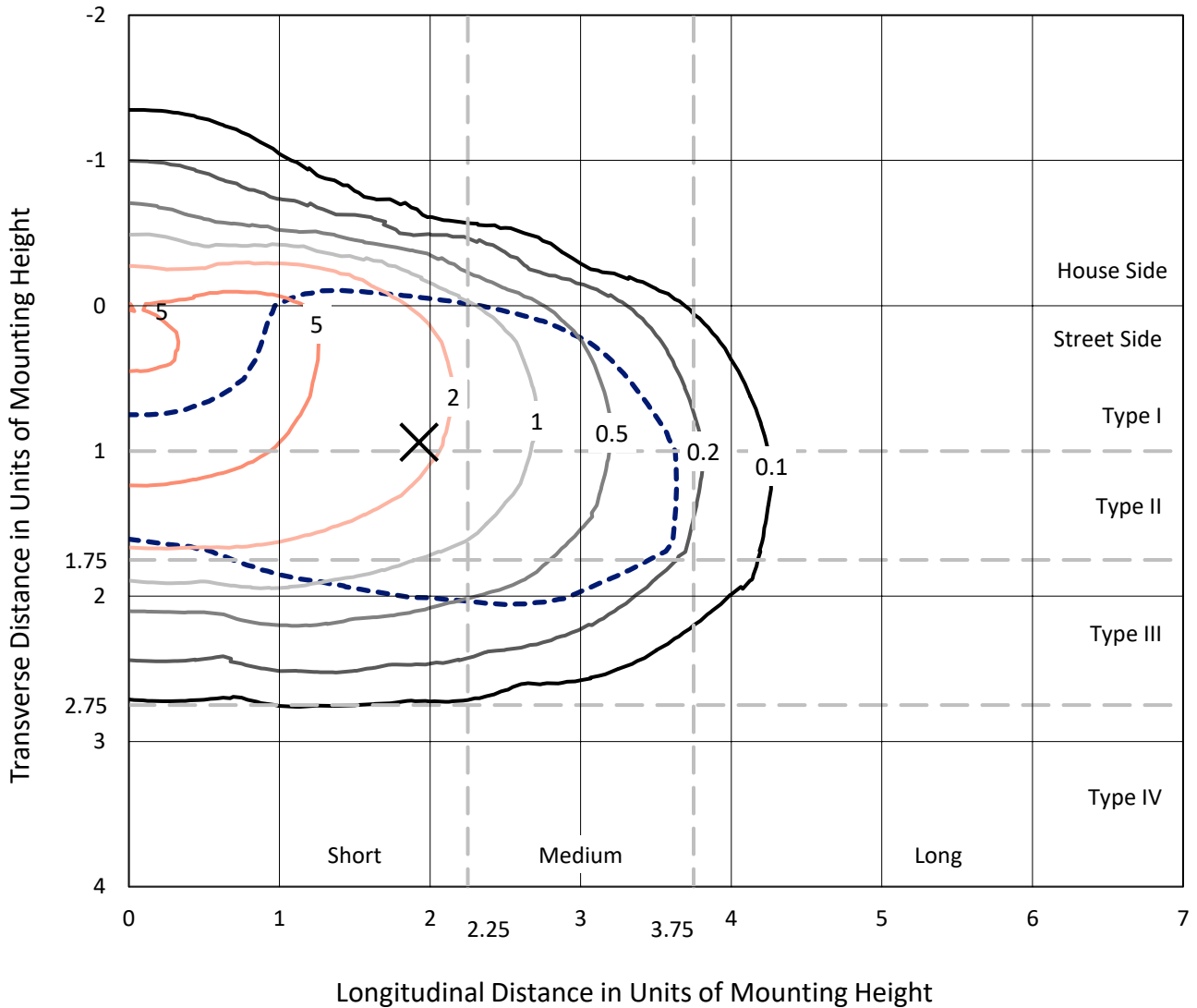
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

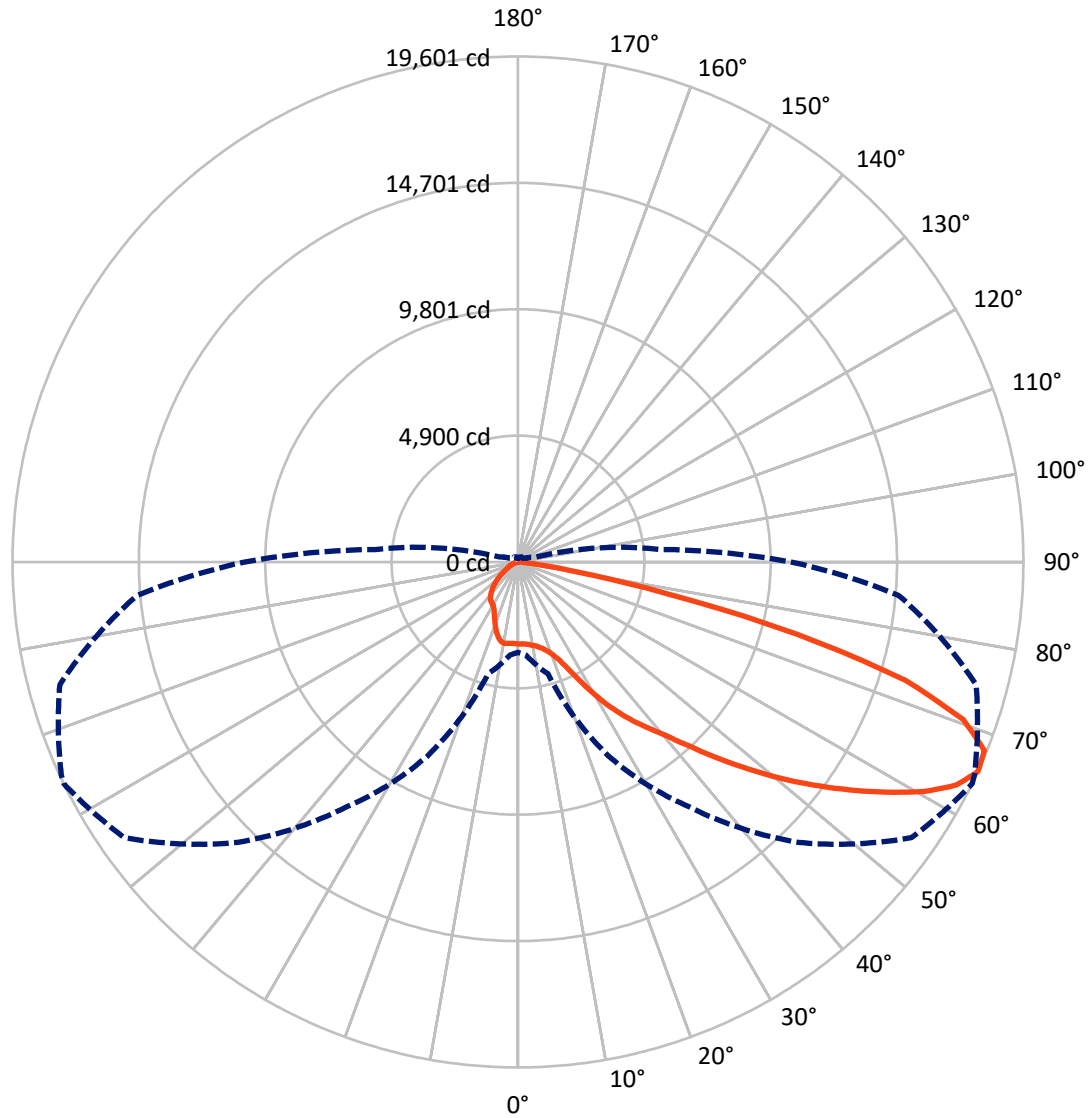
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3652.3	0.0	3652.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23658.7	0.0	23658.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	27311.0	0.0	27311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.1	1.1
10°-20°	794.9	2.9
20°-30°	1506.2	5.5
30°-40°	3047.9	11.2
40°-50°	5192.2	19.0
50°-60°	7060.9	25.9
60°-70°	6630.6	24.3
70°-80°	2656.5	9.7
80°-90°	128.7	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°	27311.0	100.0
0°-180°	27311.0	100.0

Coefficient of Utilization



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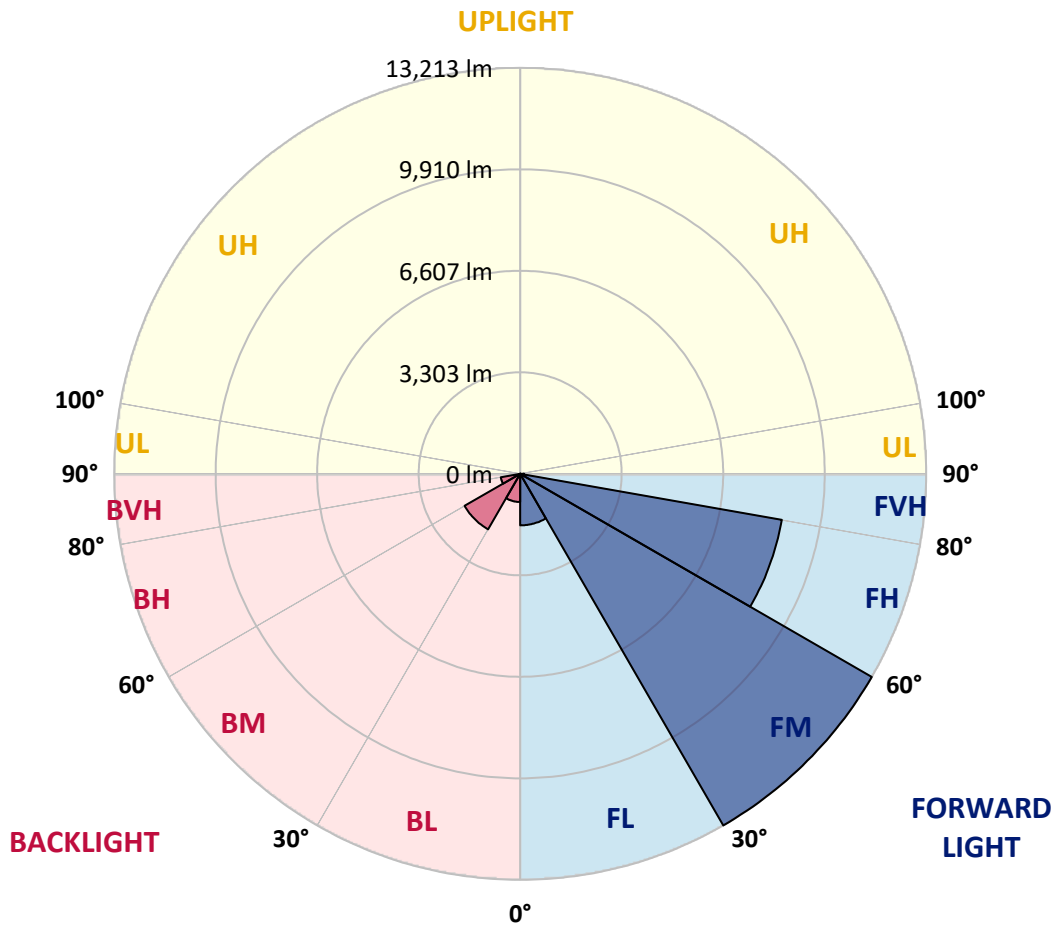
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.2	6.1			
FM (30°-60°)	13213.0	48.4			
FH (60°-80°)	8646.0	31.7			G4/12000
FVH (80°-90°)	122.4	0.4			G2/225
BL (0°-30°)	917.0	3.4	B2/1000		
BM (30°-60°)	2088.0	7.6	B2/2500		
BH (60°-80°)	641.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.3	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6
2.5°	3165.6	3187.5	3182.0	3176.6	3174.7	3178.4	3180.2	3178.4	3178.4	3178.4
5°	3105.1	3123.5	3123.5	3136.3	3154.6	3176.6	3193.0	3196.7	3200.4	3205.8
7.5°	2989.8	3004.5	3015.4	3057.5	3103.3	3161.9	3211.3	3237.0	3240.6	3260.8
10°	2911.1	2929.4	2947.7	2991.6	3057.5	3145.4	3229.6	3291.9	3301.1	3348.7
12.5°	2907.4	2925.7	2949.5	2997.1	3074.0	3167.4	3269.9	3359.6	3376.1	3445.7
15°	2945.9	2967.8	2989.8	3048.4	3130.8	3244.3	3354.1	3465.8	3482.3	3581.2
17.5°	3024.6	3053.9	3070.4	3129.0	3216.8	3343.2	3487.8	3616.0	3630.6	3746.0
20°	3180.2	3215.0	3220.5	3268.1	3354.1	3489.6	3661.7	3821.0	3839.3	3971.1
22.5°	3502.4	3551.9	3507.9	3531.7	3608.6	3744.1	3930.9	4132.3	4157.9	4308.0
25°	4070.0	4139.6	4026.1	3985.8	4018.8	4159.7	4394.1	4648.6	4677.9	4798.7
27.5°	5185.0	5095.3	4923.2	4754.8	4655.9	4736.5	5000.1	5315.0	5351.6	5468.8
30°	6409.9	6331.1	6098.6	5725.1	5490.8	5478.0	5721.5	6073.0	6115.1	6226.8
32.5°	7636.5	7561.5	7308.8	6849.3	6442.8	6241.4	6409.9	6799.8	6821.8	6893.2
35°	8843.1	8766.2	8513.5	8043.0	7543.2	7085.5	7052.5	7491.9	7499.2	7574.3
37.5°	10056.9	9992.9	9723.7	9262.4	8769.8	8138.2	7832.4	8147.4	8156.5	8229.7
40°	10922.9	10950.4	10765.5	10408.5	9985.5	9295.3	8707.6	8844.9	8790.0	8912.7
42.5°	11666.3	11721.2	11560.1	11380.7	11135.3	10527.5	9791.5	9767.7	9679.8	9745.7
45°	12308.9	12354.7	12210.0	12167.9	12162.4	11735.9	10976.0	10833.2	10710.6	10697.8
47.5°	12545.1	12633.0	12695.2	12836.2	13110.8	12931.4	12200.9	11979.4	11842.0	11741.3
50°	12634.8	12728.2	12940.6	13350.7	14000.6	14077.5	13420.2	13171.3	13002.8	12819.7
52.5°	12514.0	12680.6	12966.2	13656.4	14599.3	14996.6	14590.2	14372.3	14180.1	13881.6
55°	11801.8	11968.4	12552.4	13652.8	14897.8	15641.1	15696.0	15599.0	15382.9	14912.4
57.5°	10300.5	10547.6	11472.2	13187.7	14892.3	16195.8	16779.9	16849.5	16607.8	15934.0
60°	8220.6	8555.6	9683.5	12157.0	14432.7	16496.1	17730.1	18078.0	17821.7	16941.0
62.5°	5736.1	6124.2	7191.6	10542.1	13381.8	16280.1	18424.0	19066.6	18872.6	17841.8
65°	3498.8	3623.3	4483.8	8295.7	11594.9	15375.6	18638.2	19601.3	19537.2	18392.9
67.5°	2330.7	2435.1	2682.2	5688.5	9000.5	13568.5	18125.6	19507.9	19526.2	18303.2
70°	1404.3	1494.0	1655.1	3308.4	5833.1	10739.9	16538.2	18317.8	18424.0	17104.0
72.5°	578.6	639.0	785.4	1499.5	3020.9	6816.3	13169.4	15727.1	15974.3	14381.5
75°	327.7	358.8	461.4	752.5	1310.9	3176.6	7977.1	11164.6	11529.0	9912.3
77.5°	217.9	232.5	298.4	487.0	737.8	1083.9	3409.1	5816.7	6512.4	5413.9
80°	146.5	159.3	205.1	325.9	479.7	465.0	1085.7	2154.9	2651.1	1860.2
82.5°	98.9	100.7	146.5	214.2	303.9	225.2	320.4	670.1	842.2	538.3
85°	56.8	54.9	108.0	124.5	135.5	93.4	97.0	201.4	263.6	227.0
87.5°	7.3	11.0	42.1	33.0	18.3	20.1	20.1	34.8	51.3	54.9
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°
3176.6	0°	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6	3176.6
3180.2	2.5°	3180.2	3178.4	3172.9	3167.4	3154.6	3147.3	3150.9	3147.3	3145.4	3147.3
3204.0	5°	3204.0	3198.5	3183.9	3165.6	3139.9	3108.8	3088.7	3059.4	3031.9	3015.4
3268.1	7.5°	3268.1	3262.6	3242.5	3191.2	3108.8	2978.8	2859.8	2755.5	2676.7	2631.0
3370.6	10°	3370.6	3361.5	3330.3	3216.8	3000.8	2717.0	2480.8	2284.9	2156.8	2096.3
3491.5	12.5°	3491.5	3480.5	3425.6	3193.0	2795.7	2352.7	2026.8	1808.9	1689.9	1636.8
3630.6	15°	3634.3	3619.6	3511.6	3079.5	2497.3	1949.9	1651.4	1488.5	1411.6	1364.0
3808.2	17.5°	3811.9	3786.2	3575.7	2909.2	2173.2	1642.3	1420.8	1298.1	1230.3	1184.6
4040.7	20°	4042.6	4000.4	3626.9	2706.0	1874.8	1448.2	1265.1	1162.6	1111.3	1071.1
4370.3	22.5°	4364.8	4304.4	3689.2	2486.3	1664.3	1314.6	1149.8	1074.7	1032.6	986.8
4829.8	25°	4763.9	4692.5	3766.1	2283.1	1519.6	1199.2	1065.6	1003.3	953.9	900.8
5432.2	27.5°	5322.3	5194.2	3857.6	2116.5	1395.1	1100.4	988.7	919.1	862.3	818.4
6115.1	30°	5944.8	5734.3	3938.2	2015.8	1281.6	1008.8	888.0	818.4	765.3	734.2
6728.4	32.5°	6534.4	6248.7	3991.3	1971.8	1179.1	904.4	778.1	703.1	662.8	653.6
7329.0	35°	7090.9	6713.8	3985.8	1929.7	1087.5	800.1	670.1	593.2	562.1	567.6
7975.3	37.5°	7731.7	7210.0	3947.3	1863.8	1012.5	704.9	576.7	509.0	481.5	483.3
8760.7	40°	8476.9	7783.0	3923.5	1739.3	930.1	617.0	499.8	444.9	424.8	417.4
9588.2	42.5°	9271.5	8337.8	3927.2	1598.3	827.6	538.3	446.7	401.0	382.7	377.2
10509.2	45°	10069.8	8866.9	3932.7	1451.9	719.5	477.9	408.3	369.8	358.8	351.5
11442.9	47.5°	10820.4	9317.3	3830.2	1294.4	613.3	432.1	377.2	351.5	342.4	333.2
12380.3	50°	11519.8	9617.5	3583.0	1111.3	529.1	395.5	353.4	335.0	325.9	316.7
13229.8	52.5°	12063.6	9665.1	3174.7	922.8	470.5	368.0	338.7	322.2	311.2	302.1
13916.4	55°	12305.3	9366.7	2594.3	747.0	424.8	344.2	324.1	307.6	294.8	285.6
14456.5	57.5°	12243.0	8738.7	2023.1	600.5	380.8	320.4	305.8	294.8	280.1	265.5
14894.1	60°	11937.2	7898.4	1525.1	499.8	340.5	294.8	285.6	276.5	256.3	234.4
15062.5	62.5°	11408.1	6841.9	1087.5	413.8	296.6	265.5	261.8	254.5	225.2	184.9
14813.5	65°	10598.9	5558.5	732.3	344.2	254.5	232.5	234.4	221.5	183.1	137.3
13901.8	67.5°	9416.1	4064.5	468.7	282.0	212.4	194.1	195.9	188.6	155.6	117.2
12173.4	70°	7909.3	2691.4	305.8	214.2	170.3	150.1	161.1	162.9	131.8	95.2
9342.9	72.5°	5798.4	1589.2	214.2	159.3	124.5	104.4	131.8	135.5	106.2	71.4
5620.8	75°	3304.7	754.3	161.1	115.3	76.9	73.2	102.5	102.5	73.2	47.6
2433.2	77.5°	1387.8	314.9	113.5	75.1	43.9	42.1	69.6	64.1	36.6	22.0
593.2	80°	401.0	141.0	60.4	36.6	18.3	16.5	27.5	20.1	9.2	3.7
225.2	82.5°	157.5	62.2	23.8	14.6	7.3	7.3	3.7	0.0	0.0	0.0
128.2	85°	93.4	25.6	11.0	5.5	1.8	0.0	0.0	0.0	0.0	0.0
27.5	87.5°	23.8	5.5	3.7	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>
3176.6
3154.6
3019.1
2632.8
2090.8
1631.3
1365.8
1180.9
1063.7
979.5
895.3
809.2
728.7
659.1
567.6
490.7
415.6
375.3
351.5
333.2
316.7
300.3
283.8
263.6
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