

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: P953562

Luminaire Tested: **GALN-SB7A-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953562
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-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 23095 lumens
Efficiency: N/A
Efficacy: 116.0 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

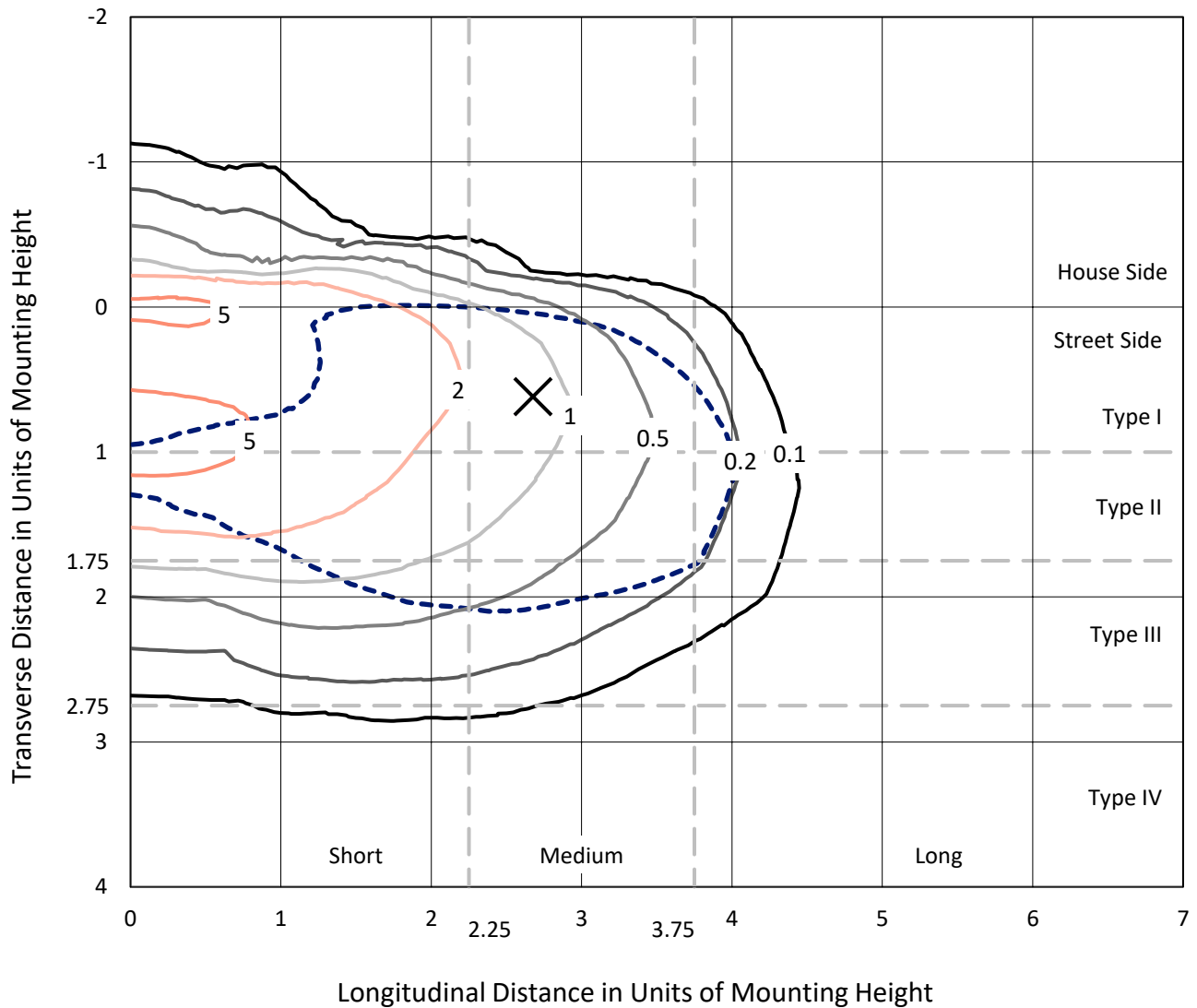
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

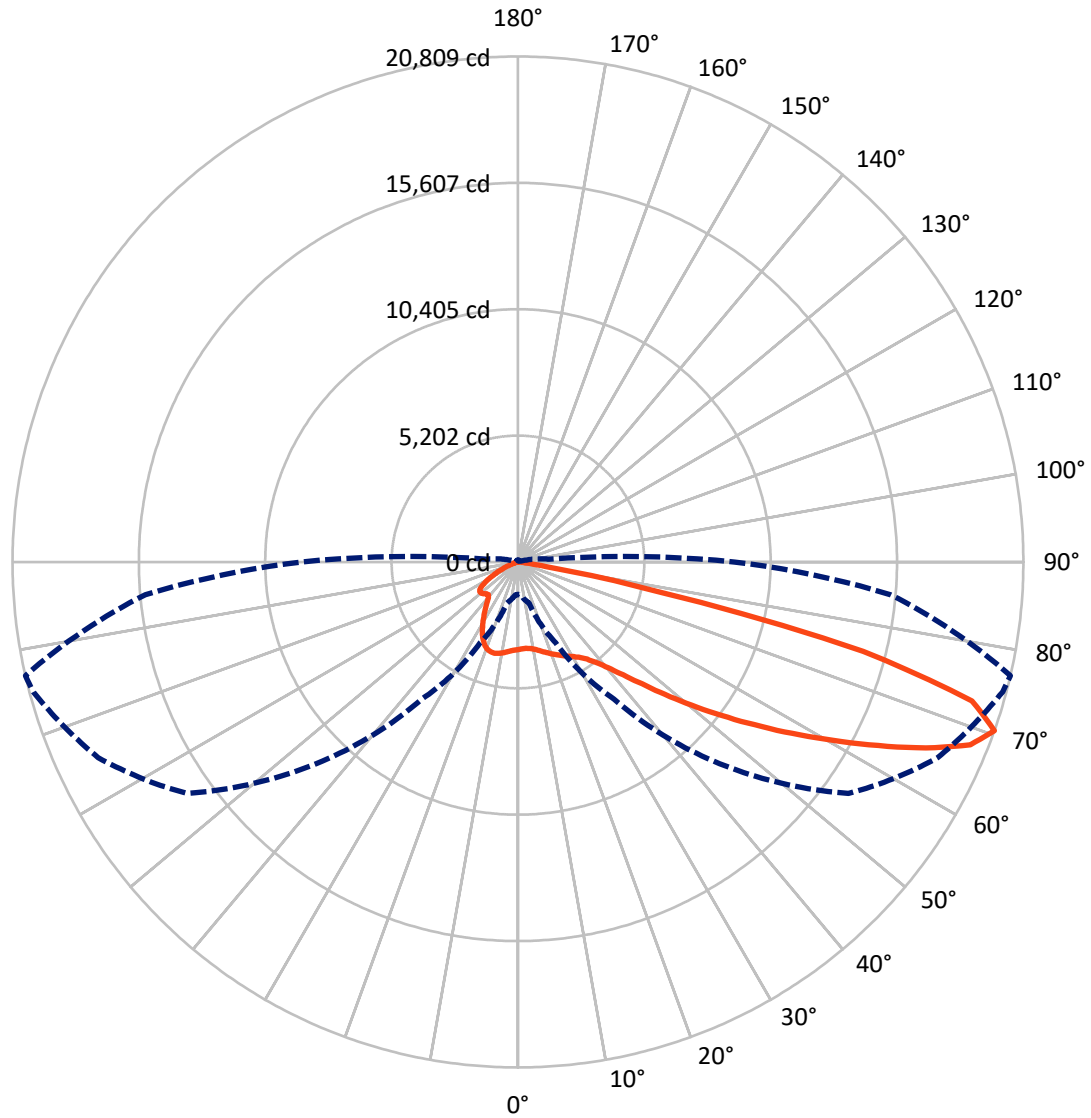
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2434.5	0.0	2434.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20660.5	0.0	20660.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	23095.0	0.0	23095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.5	1.3
10°-20°	737.0	3.2
20°-30°	1140.0	4.9
30°-40°	2068.5	9.0
40°-50°	3904.6	16.9
50°-60°	5641.8	24.4
60°-70°	6005.6	26.0
70°-80°	3182.5	13.8
80°-90°	104.5	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°	23095.0	100.0
0°-180°	23095.0	100.0

Coefficient of Utilization



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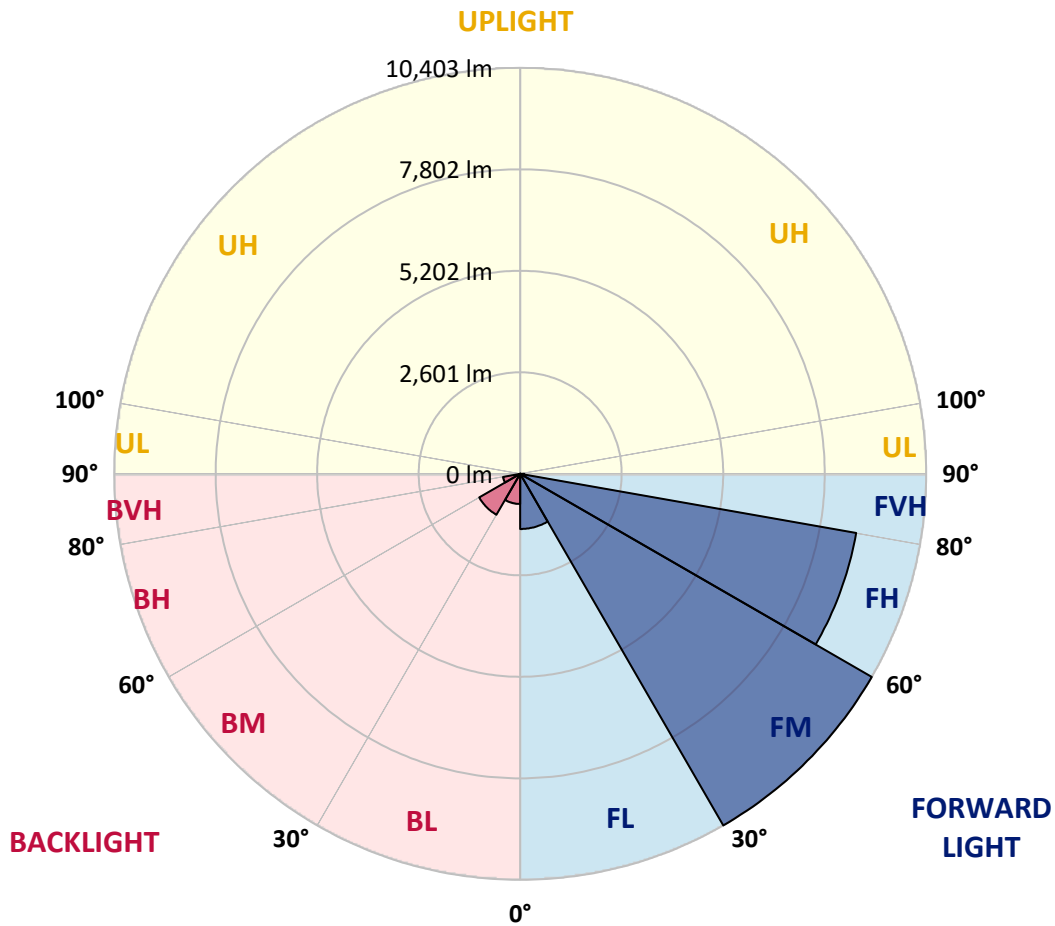
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.0	6.1			
FM (30°-60°)	10403.0	45.0			
FH (60°-80°)	8741.8	37.9			G4/12000
FVH (80°-90°)	101.7	0.4			G2/225
BL (0°-30°)	773.5	3.3	B2/1000		
BM (30°-60°)	1211.9	5.2	B2/2500		
BH (60°-80°)	446.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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°	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4
2.5°	3382.2	3412.8	3408.4	3428.8	3436.1	3465.3	3494.5	3533.9	3577.6	3576.2
5°	3191.1	3221.7	3229.0	3256.7	3291.8	3337.0	3396.8	3475.5	3557.2	3570.3
7.5°	2965.1	2997.1	3016.1	3071.5	3135.7	3229.0	3326.8	3442.0	3577.6	3596.6
10°	2739.0	2768.2	2793.0	2871.7	2973.8	3112.4	3271.3	3437.6	3619.9	3647.6
12.5°	2599.0	2626.7	2654.4	2722.9	2849.8	3019.0	3234.9	3458.0	3689.9	3729.3
15°	2549.4	2574.2	2596.1	2657.3	2775.5	2968.0	3227.6	3500.3	3778.9	3831.4
17.5°	2556.7	2569.8	2584.4	2631.1	2746.3	2944.6	3240.7	3573.2	3883.9	3930.6
20°	2599.0	2606.3	2607.7	2639.8	2741.9	2941.7	3267.0	3643.2	3983.1	4045.8
22.5°	2652.9	2655.9	2652.9	2674.8	2769.6	2963.6	3302.0	3727.8	4093.9	4152.2
25°	2905.3	2849.8	2779.8	2737.5	2816.3	3005.9	3354.5	3841.6	4215.0	4271.8
27.5°	3688.5	3529.5	3278.6	2997.1	2912.6	3067.1	3427.4	3956.8	4337.5	4388.5
30°	4960.2	4751.7	4325.8	3691.4	3221.7	3195.5	3522.2	4072.0	4467.3	4522.7
32.5°	6234.9	6183.9	5692.4	4814.4	3917.4	3481.4	3679.7	4228.1	4639.4	4683.1
35°	7524.2	7420.7	7018.1	6150.3	4989.4	4063.3	3942.2	4432.3	4865.4	4915.0
37.5°	8511.6	8448.9	8199.5	7484.8	6261.2	4961.7	4391.4	4748.8	5193.6	5249.0
40°	9383.7	9354.6	9270.0	8798.9	7683.2	6137.2	5090.0	5238.8	5648.6	5714.3
42.5°	10069.2	10137.8	10185.9	10054.6	9148.9	7479.0	6029.3	5927.2	6283.1	6350.1
45°	10770.7	10794.1	10988.1	11177.7	10604.5	8882.0	7088.1	6733.7	7072.1	7155.2
47.5°	11221.4	11314.8	11656.0	11990.0	11828.1	10273.4	8225.7	7686.1	7986.5	8142.6
50°	11255.0	11431.4	11901.1	12483.0	12719.3	11597.7	9462.5	8771.2	9090.6	9262.7
52.5°	10696.4	10970.6	11698.3	12550.1	13200.5	12719.3	10741.6	9856.3	10266.1	10490.7
55°	8200.9	8559.7	10935.6	12185.5	13219.5	13569.5	11987.1	10986.6	11575.8	11829.6
57.5°	7145.0	7325.9	8597.6	11552.5	12868.0	13912.3	13113.0	12062.9	13000.7	13315.8
60°	5944.7	6182.4	7210.6	10517.0	12391.1	13945.8	14107.7	13451.4	14545.2	14899.7
62.5°	4039.9	4298.1	5320.5	8737.7	11739.2	13929.8	14923.0	14880.7	16261.9	16642.5
65°	2502.7	2664.6	3338.4	7134.8	10827.6	13947.3	15776.2	16616.3	18073.3	18459.8
67.5°	1977.7	2052.1	2403.5	5478.0	9256.9	13553.5	16627.9	18248.3	19778.2	20084.5
70°	1328.7	1373.9	1748.7	3672.4	6886.9	11736.2	16611.9	19067.9	20656.2	20809.3
72.5°	700.1	735.1	1022.4	1700.6	4159.5	8342.4	14002.7	18087.9	19782.6	19552.2
75°	350.0	408.4	688.4	863.4	1776.4	4652.5	8695.4	14260.8	15570.5	14678.0
77.5°	265.4	320.9	568.8	568.8	618.4	1566.4	3682.6	7778.0	7174.2	5973.9
80°	169.2	218.8	497.3	430.2	258.1	398.2	959.7	2178.9	1524.1	1159.5
82.5°	99.2	142.9	414.2	284.4	144.4	147.3	271.3	463.8	395.2	307.7
85°	39.4	93.3	284.4	112.3	56.9	36.5	81.7	99.2	81.7	61.3
87.5°	0.0	21.9	49.6	0.0	4.4	2.9	5.8	7.3	7.3	5.8
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°
3602.4	0°	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4	3602.4
3605.3	2.5°	3618.4	3621.4	3630.1	3631.6	3611.2	3584.9	3574.7	3570.3	3552.8	3551.4
3628.7	5°	3662.2	3675.3	3662.2	3624.3	3533.9	3407.0	3310.7	3232.0	3160.5	3138.6
3708.9	7.5°	3749.7	3762.8	3723.5	3574.7	3347.2	3094.9	2867.3	2706.9	2562.5	2508.6
3806.6	10°	3875.1	3892.6	3768.7	3468.2	3065.7	2660.2	2275.2	2003.9	1792.5	1706.4
3939.3	12.5°	4032.6	4039.9	3793.5	3306.3	2699.6	2120.6	1575.1	1284.9	1096.8	1026.8
4099.7	15°	4206.2	4196.0	3796.4	3086.1	2200.8	1499.3	1028.2	844.4	768.6	745.3
4260.2	17.5°	4388.5	4346.2	3738.0	2768.2	1653.9	1025.3	762.8	719.0	705.9	700.1
4419.1	20°	4567.9	4473.1	3631.6	2352.5	1187.2	765.7	692.8	679.6	672.4	669.4
4579.6	22.5°	4731.3	4569.4	3449.3	1869.7	862.0	676.7	654.8	643.2	630.1	624.2
4735.6	25°	4890.2	4624.8	3192.6	1419.1	689.9	633.0	615.5	593.6	576.1	568.8
4903.4	27.5°	5044.8	4659.8	2871.7	1050.1	615.5	592.1	560.0	529.4	516.3	513.4
5082.7	30°	5209.6	4671.5	2507.1	783.2	570.3	541.1	494.4	459.4	452.1	453.6
5324.8	32.5°	5410.9	4689.0	2139.6	641.7	532.3	479.8	424.4	388.0	382.1	388.0
5677.8	35°	5651.5	4724.0	1785.2	590.7	498.8	417.1	357.3	326.7	320.9	325.2
6129.9	37.5°	5978.2	4780.8	1454.1	580.5	471.1	364.6	300.4	275.6	275.6	277.1
6684.1	40°	6412.9	4932.5	1158.0	573.2	456.5	325.2	253.8	243.6	247.9	250.9
7390.0	42.5°	6942.3	5254.8	958.2	564.4	440.5	307.7	230.4	226.1	233.4	236.3
8235.9	45°	7535.9	5663.2	888.2	549.8	425.9	319.4	220.2	214.4	223.1	224.6
9183.9	47.5°	8149.9	6062.8	879.5	533.8	411.3	336.9	217.3	204.2	214.4	215.9
10196.1	50°	8771.2	6323.9	888.2	509.0	388.0	336.9	218.8	194.0	202.7	207.1
11246.2	52.5°	9396.9	6443.5	882.4	455.0	347.1	316.5	218.8	185.2	194.0	196.9
12380.9	55°	10003.6	6420.2	793.4	374.8	294.6	280.0	212.9	177.9	183.8	185.2
13452.9	57.5°	10483.4	6094.9	628.6	291.7	239.2	233.4	194.0	169.2	173.6	172.1
14435.9	60°	10734.3	5380.3	449.2	224.6	188.1	183.8	170.6	157.5	160.4	153.1
15268.6	62.5°	10737.2	4435.2	300.4	177.9	150.2	145.8	145.8	141.5	138.6	124.0
15913.3	65°	10508.2	3386.6	199.8	141.5	121.1	113.8	122.5	121.1	110.8	90.4
16110.2	67.5°	9989.0	2219.8	151.7	110.8	93.3	89.0	97.7	102.1	94.8	75.8
15392.6	70°	8921.4	1292.2	125.4	86.0	70.0	65.6	78.8	87.5	78.8	61.3
13156.8	72.5°	7410.4	697.1	102.1	64.2	48.1	43.8	62.7	71.5	62.7	45.2
8441.6	75°	4808.6	373.4	78.8	42.3	24.8	27.7	46.7	52.5	43.8	29.2
2477.9	77.5°	1614.5	164.8	49.6	20.4	11.7	11.7	27.7	32.1	20.4	10.2
450.7	80°	360.2	68.5	20.4	8.8	4.4	4.4	5.8	5.8	2.9	0.0
138.6	82.5°	118.1	27.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
35.0	85°	45.2	10.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.7	87.5°	17.5	1.5	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>
3602.4
3554.3
3125.5
2486.7
1669.9
1004.9
745.3
698.6
666.5
622.8
565.9
510.5
453.6
386.5
323.8
275.6
250.9
236.3
226.1
217.3
208.6
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