

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: P947755

Luminaire Tested: **GALN-SB3A-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13377 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

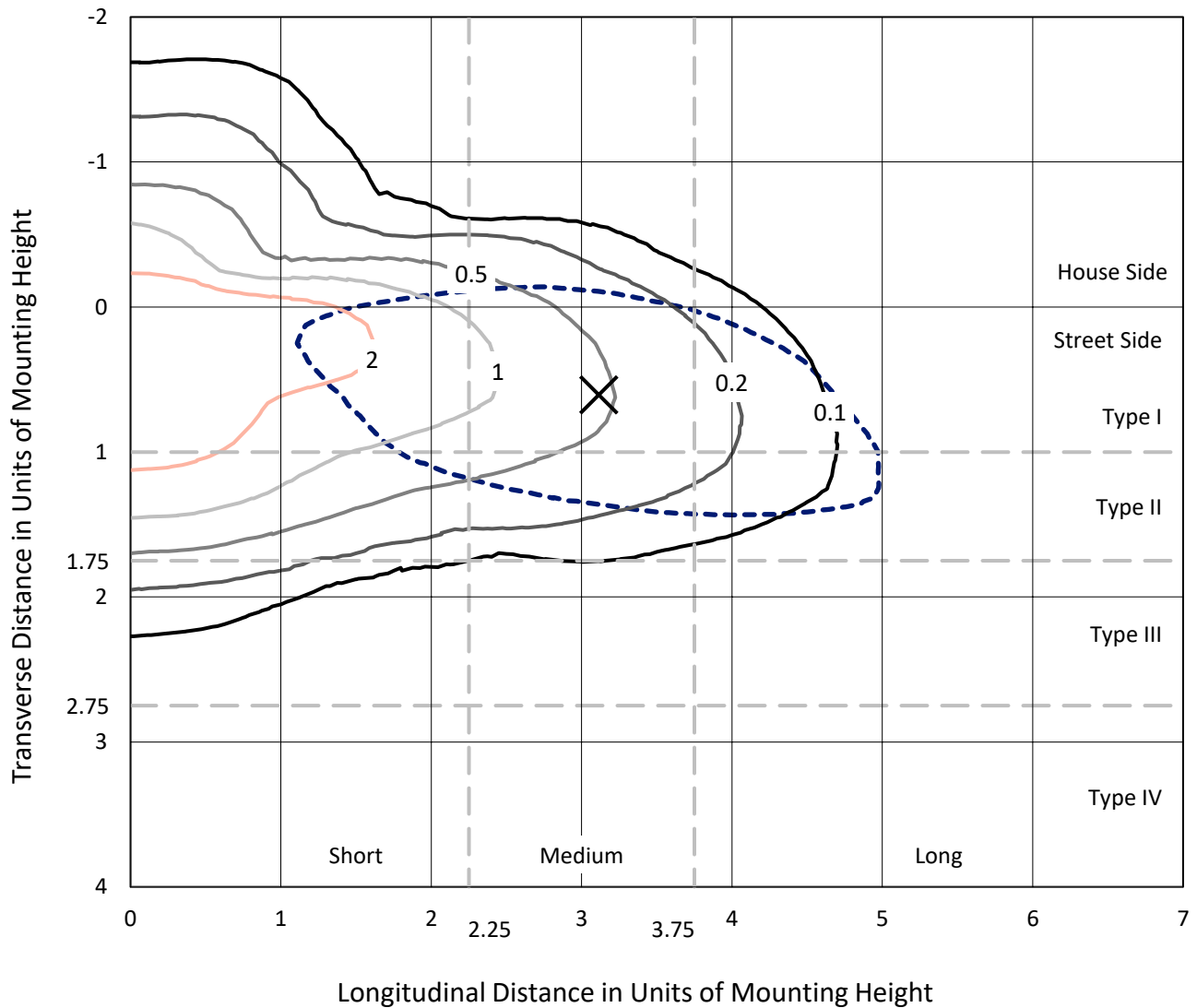
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

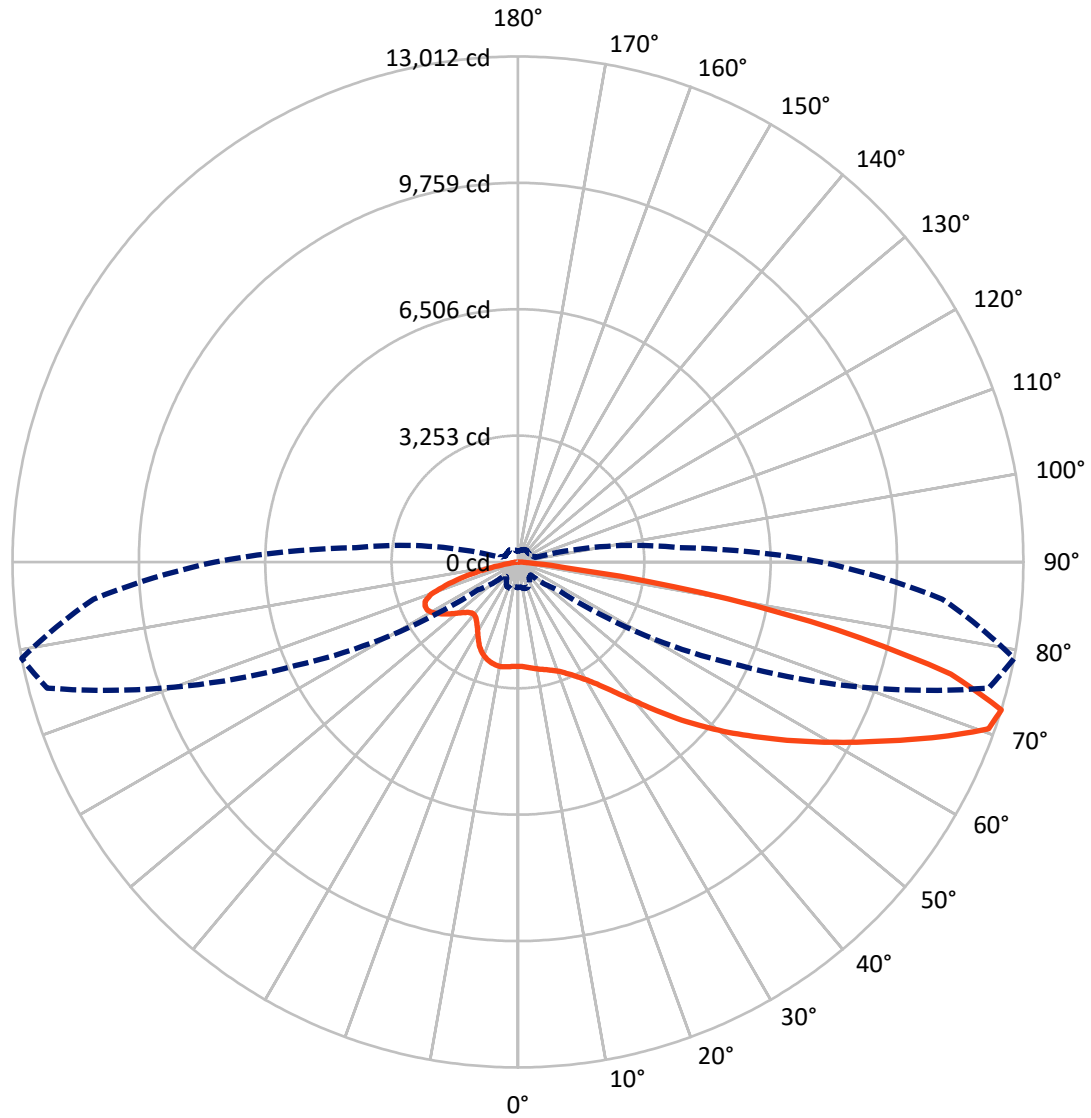
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2943.7	0.0	2943.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	10433.3	0.0	10433.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	13377.0	0.0	13377.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	1.8
10°-20°	637.3	4.8
20°-30°	1028.3	7.7
30°-40°	1543.3	11.5
40°-50°	2189.3	16.4
50°-60°	2764.8	20.7
60°-70°	2808.1	21.0
70°-80°	1913.8	14.3
80°-90°	248.3	1.9
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°	13377.0	100.0
0°-180°	13377.0	100.0



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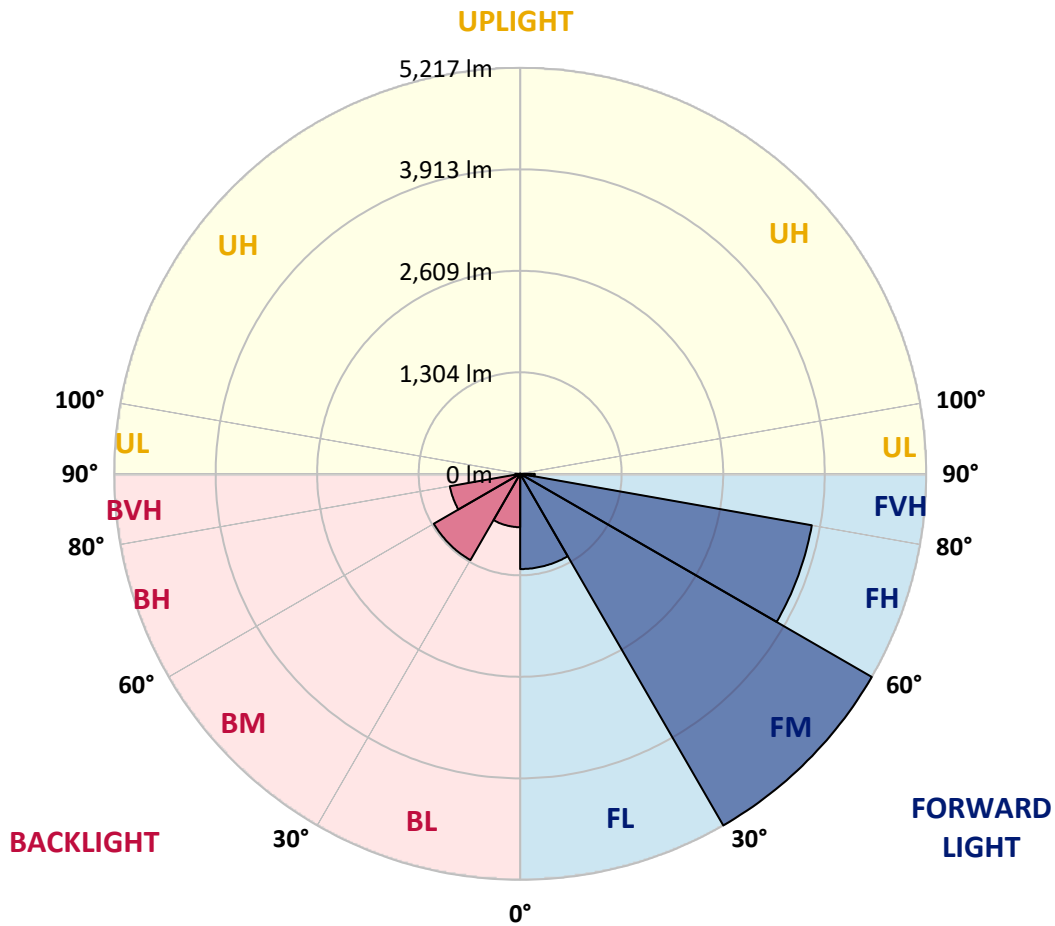
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.7	9.1			
FM (30°-60°)	5217.3	39.0			
FH (60°-80°)	3805.3	28.4			G2/5000
FVH (80°-90°)	187.0	1.4			G2/225
BL (0°-30°)	685.7	5.1	B2/1000		
BM (30°-60°)	1280.2	9.6	B2/2500		
BH (60°-80°)	916.6	6.9	B2/1000		G2/1000
BVH (80°-90°)	61.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3
2.5°	2686.7	2674.0	2681.8	2678.9	2682.5	2686.7	2688.1	2690.3	2697.3	2696.6
5°	2681.1	2668.3	2678.9	2675.4	2684.6	2694.5	2703.0	2710.8	2722.1	2727.1
7.5°	2669.0	2660.5	2671.2	2681.8	2698.7	2713.6	2725.6	2743.3	2759.6	2762.4
10°	2599.0	2592.6	2617.4	2645.0	2691.7	2732.0	2758.2	2778.7	2796.4	2799.2
12.5°	2526.1	2518.3	2545.9	2583.4	2659.1	2732.0	2787.2	2814.1	2829.7	2838.9
15°	2514.1	2507.7	2523.3	2555.8	2618.8	2712.9	2807.0	2856.5	2870.0	2880.6
17.5°	2572.1	2560.1	2566.4	2577.8	2614.5	2695.2	2822.6	2904.7	2925.2	2936.5
20°	2706.5	2689.6	2679.6	2657.0	2650.6	2698.0	2821.2	2962.7	2989.6	3003.7
22.5°	2885.6	2874.2	2853.0	2795.7	2733.4	2732.7	2848.1	3037.0	3087.2	3100.7
25°	3102.1	3085.1	3058.2	2980.4	2860.8	2801.4	2893.3	3131.8	3216.0	3219.5
27.5°	3351.1	3325.7	3288.9	3186.3	3024.9	2908.9	2962.7	3240.8	3363.9	3362.5
30°	3613.7	3588.2	3549.3	3424.7	3221.7	3054.0	3058.9	3358.2	3539.4	3531.6
32.5°	3805.4	3786.3	3778.5	3682.3	3448.1	3225.2	3169.3	3488.4	3755.9	3748.8
35°	3952.6	3927.8	3937.0	3888.2	3695.0	3417.0	3304.4	3643.4	4019.1	4018.4
37.5°	4098.4	4076.4	4084.2	4051.7	3923.6	3660.4	3469.3	3833.0	4345.3	4360.9
40°	4231.4	4208.0	4239.2	4208.7	4101.2	3919.3	3656.8	4047.4	4723.2	4752.9
42.5°	4311.3	4293.0	4344.6	4345.3	4255.4	4138.0	3862.7	4283.8	5160.5	5227.0
45°	4338.9	4332.6	4410.4	4426.7	4392.0	4264.6	4048.1	4541.3	5631.7	5750.6
47.5°	4309.2	4297.2	4404.8	4464.9	4492.5	4324.1	4201.7	4820.1	6112.9	6286.9
50°	4159.2	4135.9	4295.8	4422.4	4520.8	4363.0	4356.6	5142.1	6659.8	6850.2
52.5°	3889.6	3871.9	4053.8	4273.8	4458.5	4382.1	4530.7	5493.7	7179.2	7425.5
55°	3545.0	3521.7	3721.9	4009.2	4303.6	4375.7	4704.8	5887.2	7792.0	8041.8
57.5°	2998.8	2952.1	3205.4	3545.0	4051.0	4368.0	4885.9	6278.4	8414.7	8714.0
60°	2202.0	2132.7	2443.3	2845.9	3557.1	4292.2	5110.2	6717.2	9161.9	9431.5
62.5°	1282.2	1241.8	1444.9	1820.6	2681.1	3846.5	5236.2	7227.3	9896.4	10179.4
65°	995.6	984.3	1001.9	1031.0	1492.3	2879.9	4847.7	7724.8	10830.4	11028.5
67.5°	910.7	902.2	910.0	855.5	757.1	1604.1	3835.1	7850.7	11830.9	11951.2
70°	809.5	799.6	825.1	778.3	595.8	729.5	2478.0	7393.6	12627.0	12852.7
72.5°	659.5	648.2	707.6	686.4	501.7	468.4	1244.7	6307.5	12543.5	13011.9
75°	506.6	500.3	571.0	588.7	409.0	368.7	597.2	4688.5	11038.4	11510.4
77.5°	393.4	388.5	424.6	488.9	329.7	285.9	367.2	2974.0	8318.4	8401.2
80°	295.1	280.9	314.2	378.6	256.9	208.7	249.1	1734.3	5258.1	4766.3
82.5°	184.7	177.6	205.2	252.6	181.1	143.6	162.0	958.1	2107.2	1241.1
85°	105.4	102.6	111.8	144.3	98.4	82.8	92.7	423.1	384.9	264.6
87.5°	42.5	41.0	50.9	64.4	36.1	30.4	32.5	101.9	84.9	78.5
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°
2685.3	0°	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3	2685.3
2695.9	2.5°	2693.1	2693.1	2683.2	2667.6	2649.9	2638.6	2620.2	2615.3	2596.1	2590.5
2720.0	5°	2725.6	2720.0	2689.6	2645.7	2585.5	2530.3	2469.5	2431.3	2377.5	2358.4
2767.4	7.5°	2766.7	2751.1	2698.7	2602.5	2476.6	2352.7	2224.0	2126.3	2032.9	1999.7
2806.3	10°	2804.2	2782.2	2693.1	2524.7	2306.7	2092.3	1887.1	1743.5	1634.5	1590.0
2849.5	12.5°	2841.7	2801.4	2655.6	2395.2	2065.5	1774.6	1556.0	1444.2	1377.0	1323.2
2884.8	15°	2877.1	2820.5	2597.6	2221.8	1800.8	1505.8	1344.4	1255.3	1201.5	1166.1
2936.5	17.5°	2918.1	2836.7	2510.5	2001.8	1548.9	1319.7	1188.0	1134.3	1123.7	1119.4
3007.3	20°	2975.4	2851.6	2395.9	1755.5	1363.5	1171.1	1103.1	1098.2	1097.5	1095.3
3092.2	22.5°	3037.0	2869.3	2244.5	1531.9	1205.7	1078.4	1066.3	1056.4	1050.1	1049.4
3194.8	25°	3109.9	2874.9	2054.8	1348.7	1071.3	1034.5	1020.3	1005.5	1001.2	1001.2
3311.5	27.5°	3180.6	2855.8	1834.1	1189.5	995.6	994.2	975.8	970.8	970.1	972.2
3444.6	30°	3251.4	2819.7	1614.7	1042.3	951.7	951.7	945.3	948.9	951.7	958.8
3627.1	32.5°	3346.9	2781.5	1431.5	933.3	913.5	906.4	912.8	919.9	922.7	931.9
3867.0	35°	3487.0	2754.6	1285.7	873.9	873.9	864.7	868.2	866.8	860.4	856.2
4157.1	37.5°	3672.4	2753.2	1165.4	846.3	840.6	839.2	839.9	830.7	805.9	776.2
4508.1	40°	3895.3	2791.4	1072.7	827.2	822.9	831.4	827.2	802.4	734.5	682.8
4939.7	42.5°	4194.6	2900.4	1013.3	803.8	816.6	827.2	810.2	724.6	678.6	643.9
5431.5	45°	4547.0	3077.3	982.8	779.1	804.5	817.3	735.2	697.7	660.9	619.1
5967.8	47.5°	4946.1	3300.2	975.8	755.7	777.6	785.4	703.3	686.4	644.6	599.3
6507.0	50°	5380.5	3564.1	994.9	728.1	738.7	711.8	692.7	677.2	634.0	589.4
7059.6	52.5°	5829.8	3855.0	1033.1	690.6	699.8	670.1	688.5	675.0	627.6	567.5
7630.7	55°	6271.4	4147.9	1069.9	646.7	660.2	632.6	676.5	666.6	598.6	530.7
8239.9	57.5°	6720.0	4439.4	1106.0	607.8	622.0	596.5	657.4	643.9	566.1	496.7
8905.0	60°	7186.3	4722.5	1122.9	570.3	580.2	563.2	628.3	605.0	529.3	462.1
9558.8	62.5°	7622.9	4958.1	1095.3	532.8	539.2	532.1	590.1	559.0	492.5	423.1
10240.2	65°	8060.9	5098.2	1010.4	496.0	497.4	493.9	536.4	509.5	449.3	389.2
10836.7	67.5°	8457.8	5176.7	875.3	456.4	452.9	451.4	486.1	455.7	407.6	355.2
11290.3	70°	8542.0	4977.2	668.7	409.7	409.7	406.2	430.9	399.8	361.6	319.1
10965.5	72.5°	7801.9	4186.8	474.8	356.6	362.3	355.2	375.7	349.5	314.9	286.6
9450.6	75°	6291.2	3070.2	345.3	302.1	312.0	300.0	319.1	300.7	271.0	270.3
6512.7	77.5°	4322.7	1898.5	250.5	249.1	256.1	240.6	262.5	252.6	225.7	213.7
2834.6	80°	1844.7	757.1	182.6	192.5	192.5	178.3	203.8	206.6	183.3	177.6
547.0	82.5°	367.2	215.1	128.1	132.3	124.5	120.3	144.3	159.9	220.8	245.5
164.9	85°	110.4	79.3	77.1	72.2	63.7	64.4	84.9	160.6	198.1	113.2
54.5	87.5°	30.4	19.8	20.5	16.3	13.4	17.7	29.0	121.7	66.5	28.3
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>
2685.3
2599.7
2372.6
2003.9
1599.9
1340.9
1172.5
1122.2
1102.4
1057.1
1005.5
977.9
963.7
939.7
866.1
776.9
681.4
642.5
616.3
595.8
584.5
563.2
527.2
495.3
459.9
422.4
384.9
351.0
317.7
278.1
243.4
200.2
177.6
246.2
97.6
24.1
0.0

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