

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: P953565

Luminaire Tested: **GALN-SB7A-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
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-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

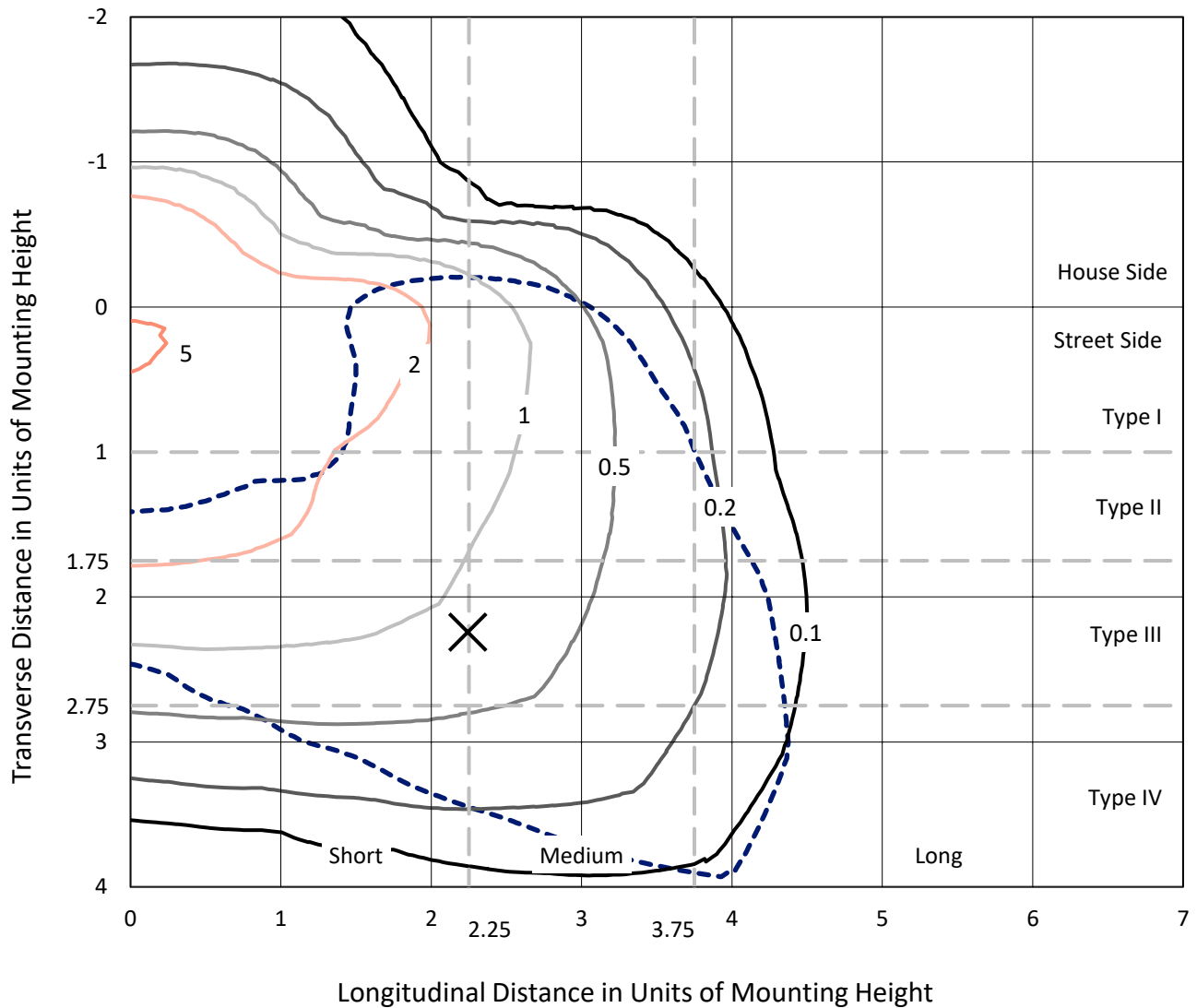
Lumens per Lamp: N/A  
Luminaire Lumens: 27686 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

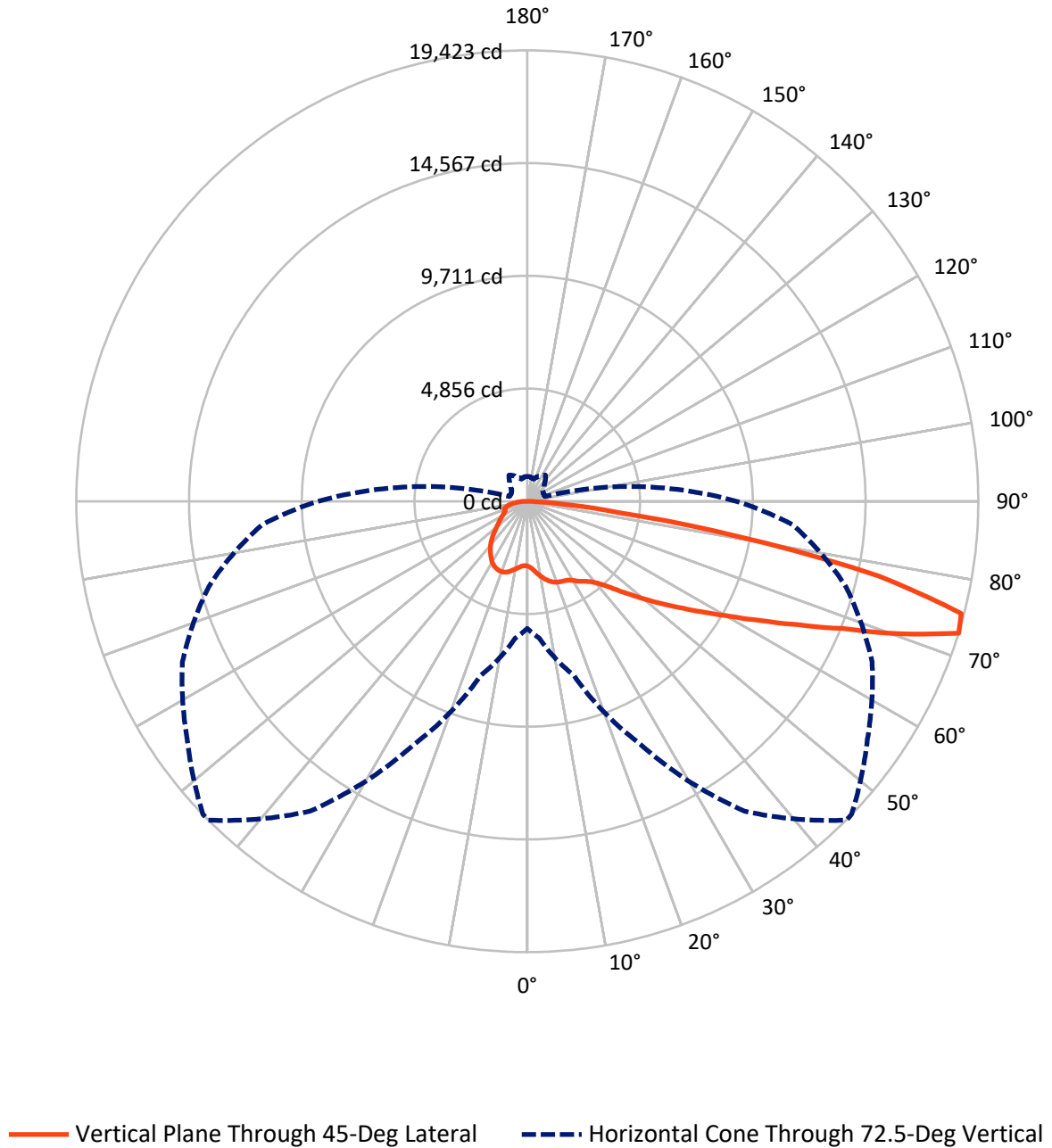
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6258.8	0.0	6258.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	21427.2	0.0	21427.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	27686.0	0.0	27686.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.3	1.0
10°-20°	947.8	3.4
20°-30°	1648.7	6.0
30°-40°	2363.6	8.5
40°-50°	3328.0	12.0
50°-60°	5097.6	18.4
60°-70°	7384.6	26.7
70°-80°	5897.0	21.3
80°-90°	734.4	2.7
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°	27686.0	100.0
0°-180°	27686.0	100.0



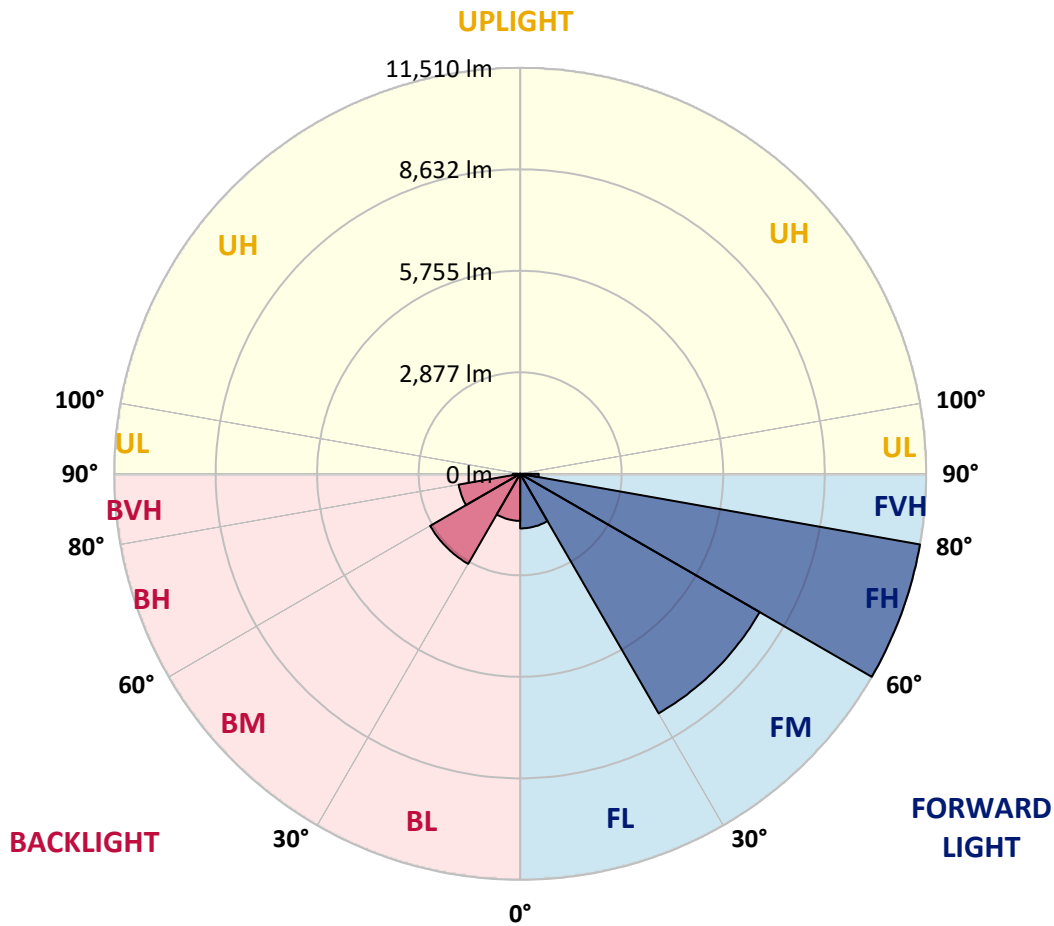
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.2	5.6			
FM (30°-60°)	7842.1	28.3			
FH (60°-80°)	11509.9	41.6			G4/12000
FVH (80°-90°)	526.9	1.9			G4/750
BL (0°-30°)	1332.6	4.8	B3/2500		
BM (30°-60°)	2947.0	10.6	B3/5000		
BH (60°-80°)	1771.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	207.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0
2.5°	2902.4	2921.3	2903.8	2887.8	2880.5	2861.5	2860.1	2848.4	2841.1	2820.7
5°	3105.1	3129.9	3100.7	3068.6	3039.5	2992.8	2987.0	2953.4	2915.5	2871.7
7.5°	3334.1	3355.9	3322.4	3274.3	3223.2	3145.9	3144.5	3083.2	3023.4	2949.0
10°	3533.9	3563.1	3517.8	3452.2	3388.0	3300.5	3290.3	3220.3	3144.5	3048.2
12.5°	3710.4	3730.8	3687.0	3606.8	3532.4	3444.9	3431.8	3354.5	3269.9	3160.5
15°	3850.4	3876.6	3818.3	3732.2	3653.5	3567.4	3555.8	3485.8	3401.2	3285.9
17.5°	3942.3	3964.1	3904.3	3808.1	3732.2	3660.8	3652.0	3593.7	3519.3	3402.6
20°	3977.3	4000.6	3937.9	3840.2	3770.2	3714.7	3710.4	3668.1	3617.0	3510.5
22.5°	4012.3	4034.1	3952.5	3850.4	3789.1	3754.1	3752.7	3724.9	3704.5	3617.0
25°	4153.7	4159.6	4050.2	3902.9	3815.4	3784.7	3783.3	3781.8	3790.6	3722.0
27.5°	4276.2	4274.8	4181.4	4042.9	3907.3	3843.1	3841.6	3856.2	3883.9	3827.0
30°	4455.6	4439.6	4328.8	4184.4	4060.4	3961.2	3952.5	3939.3	3961.2	3916.0
32.5°	4836.3	4785.3	4605.9	4349.2	4187.3	4111.4	4099.8	4018.1	4026.8	3999.1
35°	5381.8	5314.7	5075.5	4661.3	4344.8	4236.9	4231.0	4127.5	4110.0	4085.2
37.5°	6030.8	5947.7	5669.1	5113.4	4616.1	4382.7	4374.0	4280.6	4209.2	4182.9
40°	6682.7	6577.7	6347.3	5664.7	5015.7	4626.3	4598.6	4457.1	4375.4	4331.7
42.5°	7315.7	7228.2	7031.3	6283.1	5508.7	4982.1	4920.9	4678.8	4617.5	4576.7
45°	7875.8	7797.0	7652.6	6943.8	6086.2	5466.4	5406.6	5011.3	4992.4	4992.4
47.5°	8330.8	8313.3	8160.2	7617.6	6767.3	6017.7	5914.1	5473.7	5524.7	5603.5
50°	8835.4	8787.3	8624.0	8281.2	7568.0	6649.2	6564.6	6041.0	6232.1	6447.9
52.5°	9299.2	9325.5	9143.2	8972.5	8472.3	7353.6	7204.9	6710.4	7123.2	7480.5
55°	9776.2	9777.6	9726.6	9703.2	9420.3	8132.5	7969.1	7515.5	8171.8	8615.2
57.5°	10223.9	10226.8	10302.7	10508.3	10520.0	9030.9	8845.6	8504.4	9337.2	9789.3
60°	10623.5	10643.9	10851.0	11332.3	11486.9	10060.6	9885.5	9672.6	10541.9	10996.9
62.5°	10757.7	10832.1	11293.0	11977.0	12442.2	11323.6	11151.5	11024.6	11807.8	12230.8
65°	10530.2	10700.8	11592.0	12509.3	13425.3	12824.4	12653.7	12515.2	13123.4	13521.5
67.5°	9971.6	10191.8	11574.5	13067.9	14618.3	14630.0	14471.0	14145.7	14533.7	14686.8
70°	8500.0	8829.6	10555.0	13276.5	15987.8	17099.2	16946.0	16108.9	15941.1	15200.2
72.5°	5476.6	5919.9	7772.2	11559.9	16292.6	19422.5	19413.8	17880.9	16386.0	14202.6
75°	1998.1	2269.4	3611.2	7255.9	13676.1	19304.4	19361.2	17577.5	14958.1	10970.6
77.5°	727.8	796.3	1178.4	2788.6	8411.0	15489.0	15607.1	14052.4	10646.9	5505.7
80°	382.1	420.0	603.8	1082.2	3603.9	9198.6	9383.8	8351.2	5004.0	1658.3
82.5°	211.5	229.0	338.4	587.8	1623.3	3933.5	4044.3	3299.1	1760.4	703.0
85°	113.8	121.1	159.0	320.9	793.4	1363.7	1394.3	985.9	701.5	412.7
87.5°	33.5	40.8	52.5	102.1	310.7	306.3	313.6	195.4	277.1	208.6
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°
2793.0	0°	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0	2793.0
2814.9	2.5°	2806.1	2801.7	2785.7	2778.4	2769.6	2768.2	2775.5	2776.9	2778.4	2779.9
2846.9	5°	2832.4	2817.8	2803.2	2794.4	2797.4	2798.8	2813.4	2823.6	2830.9	2836.7
2906.7	7.5°	2883.4	2871.7	2846.9	2845.5	2849.9	2863.0	2881.9	2905.3	2918.4	2928.6
2984.0	10°	2959.2	2937.4	2908.2	2912.6	2921.3	2940.3	2979.7	2998.6	3020.5	3039.5
3078.8	12.5°	3036.5	3017.6	2984.0	2987.0	3001.5	3035.1	3073.0	3096.3	3110.9	3125.5
3180.9	15°	3137.2	3103.6	3067.2	3067.2	3093.4	3129.9	3147.4	3166.3	3175.1	3191.1
3290.3	17.5°	3240.7	3197.0	3148.8	3145.9	3178.0	3195.5	3205.7	3208.6	3211.6	3229.1
3396.8	20°	3344.3	3296.2	3227.6	3221.8	3229.1	3226.1	3224.7	3221.8	3226.1	3248.0
3506.2	22.5°	3446.4	3391.0	3296.2	3269.9	3249.5	3221.8	3220.3	3218.9	3221.8	3243.6
3624.3	25°	3566.0	3498.9	3372.0	3293.2	3224.7	3186.8	3191.1	3192.6	3195.5	3213.0
3746.8	27.5°	3695.8	3621.4	3442.0	3285.9	3162.0	3135.7	3128.4	3132.8	3143.0	3170.7
3869.3	30°	3825.6	3738.1	3506.2	3256.8	3083.2	3046.8	3023.4	3033.6	3065.7	3093.4
3975.8	32.5°	3943.7	3856.2	3557.2	3192.6	2982.6	2925.7	2895.1	2908.2	2940.3	2950.5
4093.9	35°	4082.3	3983.1	3579.1	3090.5	2873.2	2785.7	2744.8	2725.9	2741.9	2731.7
4232.5	37.5°	4236.9	4133.3	3576.2	2956.3	2744.8	2644.2	2587.3	2515.9	2482.3	2447.3
4436.7	40°	4465.8	4317.1	3541.2	2794.4	2585.9	2494.0	2391.9	2270.8	2195.0	2126.5
4766.3	42.5°	4778.0	4572.3	3477.0	2616.5	2406.5	2320.4	2181.9	2040.4	1920.8	1807.0
5266.6	45°	5243.2	4906.3	3396.8	2426.9	2212.5	2127.9	1977.7	1818.7	1683.1	1537.2
5976.8	47.5°	5914.1	5355.5	3320.9	2211.0	2008.3	1931.0	1795.4	1648.1	1487.6	1346.2
7003.6	50°	6835.9	6000.2	3250.9	2001.0	1807.0	1748.7	1640.8	1490.6	1328.7	1214.9
8206.8	52.5°	8008.5	6876.7	3221.8	1798.3	1618.9	1597.0	1511.0	1371.0	1217.8	1121.6
9609.9	55°	9354.7	7925.4	3221.8	1604.3	1454.1	1461.4	1401.6	1271.8	1139.1	1053.0
11056.7	57.5°	10728.5	8987.1	3163.4	1424.9	1314.1	1344.7	1306.8	1193.0	1073.4	984.5
12577.9	60°	11994.5	9876.8	2927.2	1261.6	1190.1	1238.2	1213.5	1115.7	969.9	895.5
13849.7	62.5°	12967.3	10378.5	2472.1	1131.8	1088.0	1143.4	1130.3	1013.6	950.9	920.3
14893.9	65°	13454.4	10296.8	1890.2	1016.6	1002.0	1088.0	1060.3	1055.9	1006.3	971.3
15233.8	67.5°	13155.4	9593.8	1371.0	932.0	952.4	1037.0	1143.4	1160.9	1069.1	1000.5
14277.0	70°	11844.3	8322.1	1020.9	851.7	889.7	1038.4	1303.9	1214.9	1048.6	968.4
11450.5	72.5°	9010.5	6205.8	792.0	767.2	808.0	1045.7	1375.3	1190.1	990.3	1070.5
7133.4	75°	5152.8	3407.0	635.9	663.6	705.9	977.2	1338.9	1125.9	945.1	983.0
2826.5	77.5°	1964.6	1309.7	525.1	561.5	567.3	853.2	1280.5	1121.6	899.9	878.0
847.4	80°	681.1	511.9	434.6	446.3	439.0	758.4	1228.0	975.7	736.5	659.2
350.0	82.5°	278.6	255.2	344.2	329.6	312.1	589.2	991.8	797.8	602.3	532.3
169.2	85°	121.1	161.9	227.5	199.8	180.9	408.4	794.9	675.3	509.0	439.0
55.4	87.5°	24.8	61.3	96.3	90.4	93.3	272.7	564.4	479.8	360.2	269.8
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°  
2793.0  
2785.7  
2839.6  
2931.5  
3035.1  
3131.3  
3197.0  
3234.9  
3256.8  
3258.2  
3236.4  
3198.4  
3124.1  
2987.0  
2763.8  
2469.2  
2130.8  
1796.8  
1519.7  
1330.1  
1207.6  
1114.3  
1044.3  
969.9  
883.8  
910.1  
959.7  
988.8  
955.3  
*1061.8*  
983.0  
800.7  
637.4  
526.5  
437.5  
211.5  
0.0

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