

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: P942189

Luminaire Tested: **GALN-SB6A-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6A-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

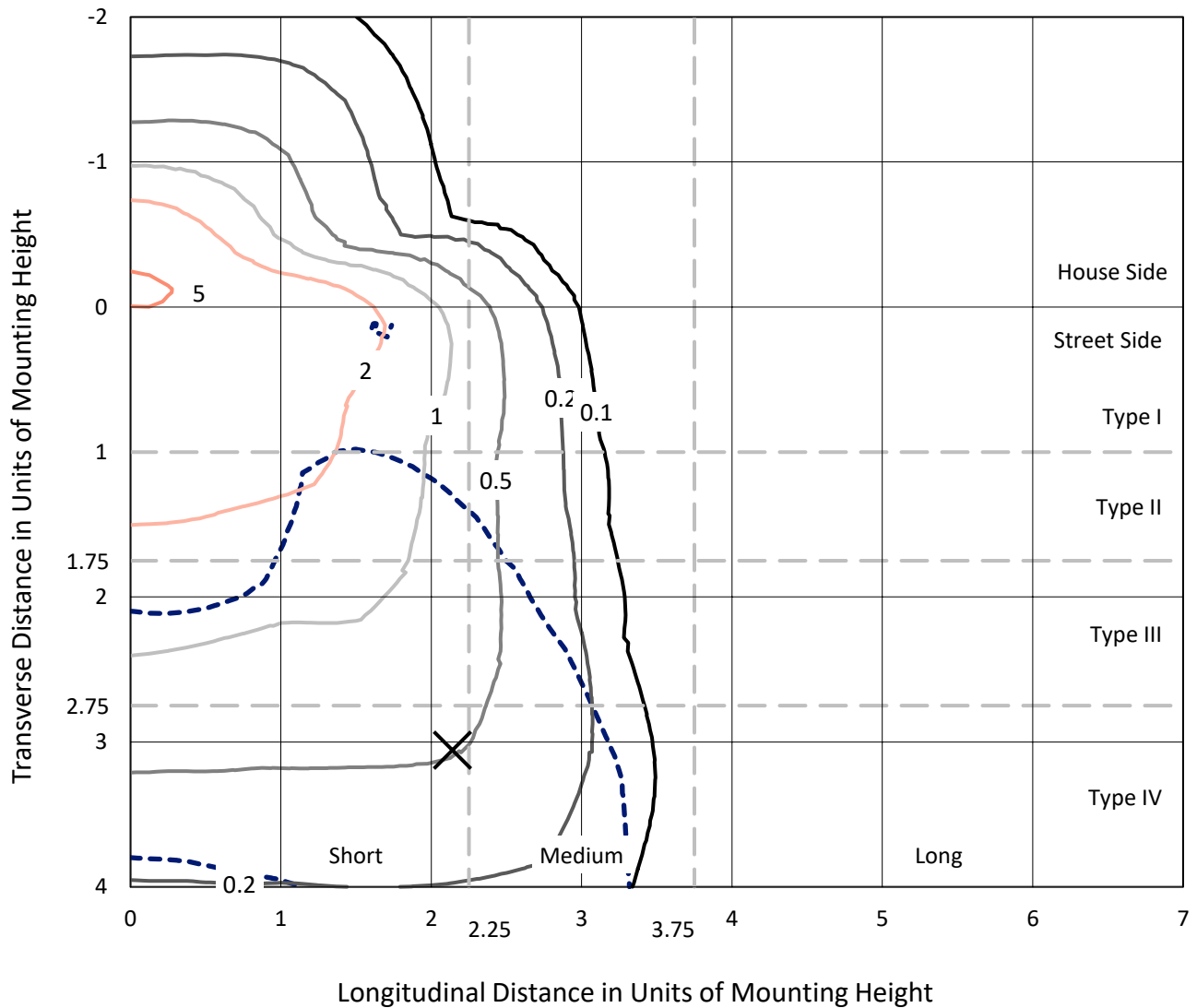
Lumens per Lamp: N/A  
Luminaire Lumens: 23379 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

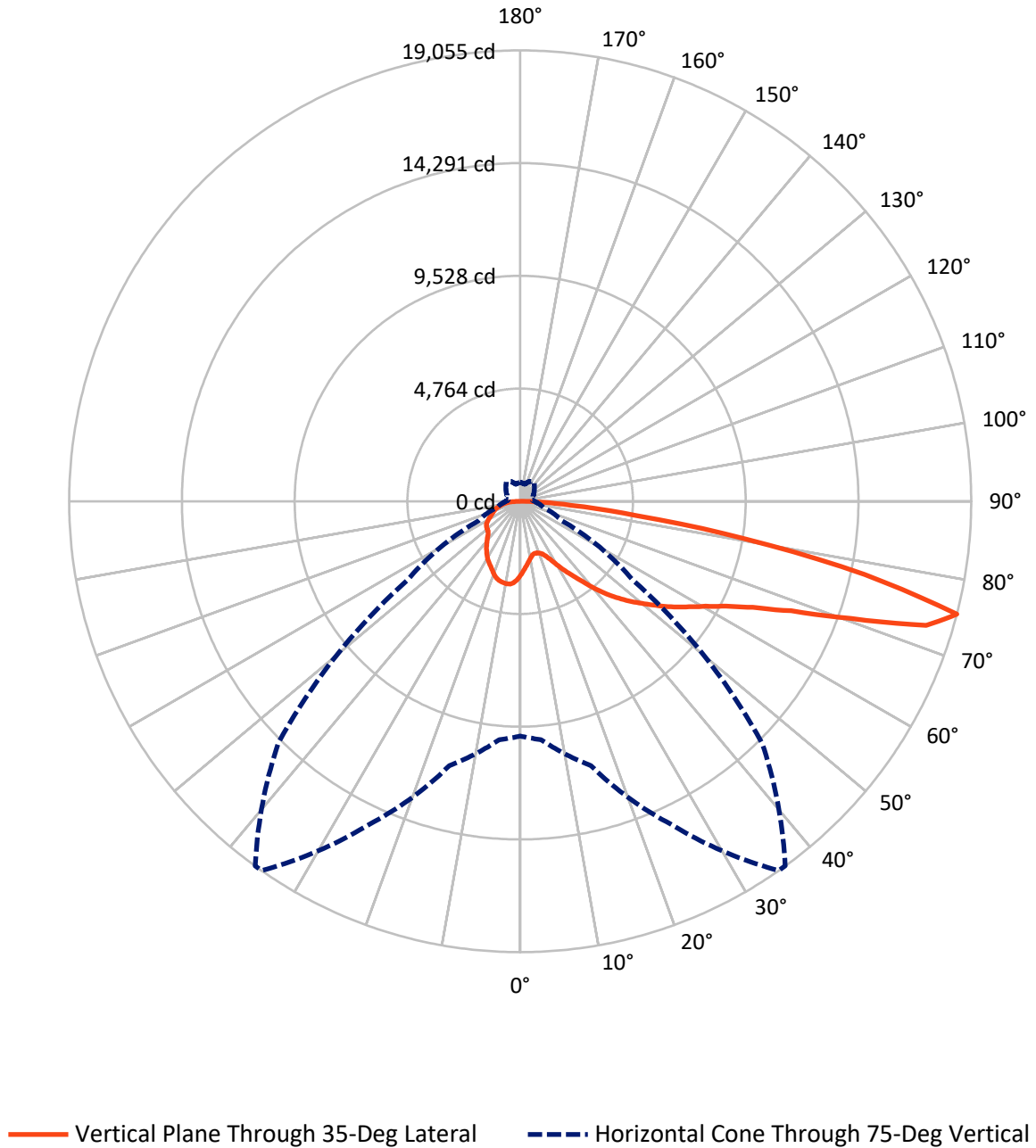
× Max cd  
 - - - 1/2 Max cd



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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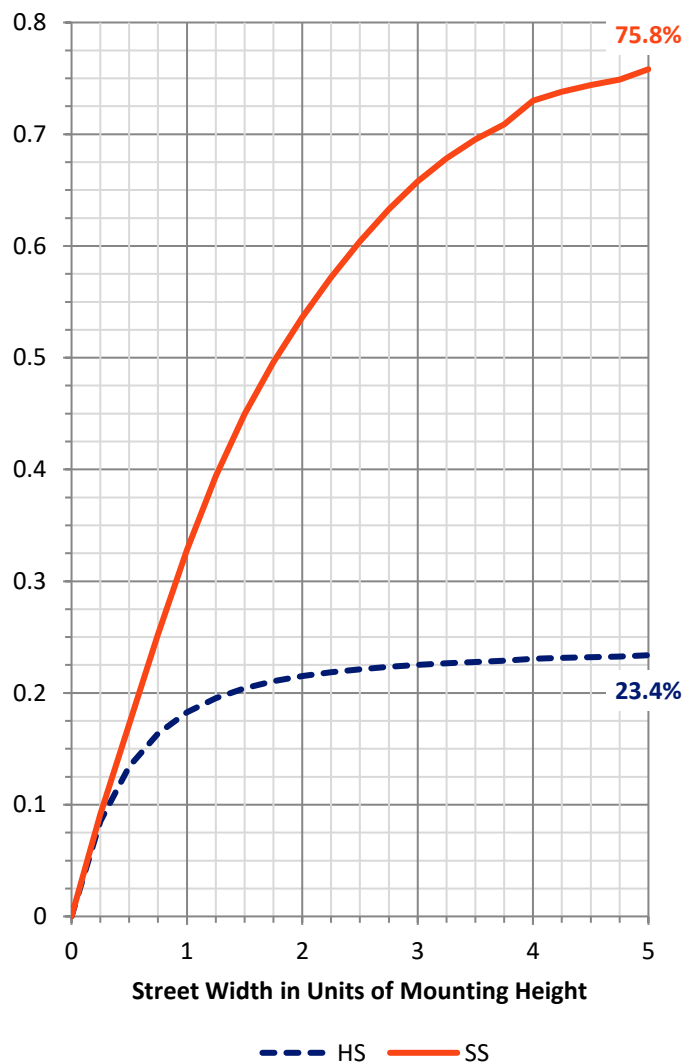
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5563.6	0.0	5563.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	17815.4	0.0	17815.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	23379.0	0.0	23379.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.0	1.3
10°-20°	850.8	3.6
20°-30°	1428.7	6.1
30°-40°	2220.5	9.5
40°-50°	3295.8	14.1
50°-60°	4550.0	19.5
60°-70°	5520.2	23.6
70°-80°	4562.0	19.5
80°-90°	656.2	2.8
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°	23379.0	100.0
0°-180°	23379.0	100.0

**Coefficient of Utilization**



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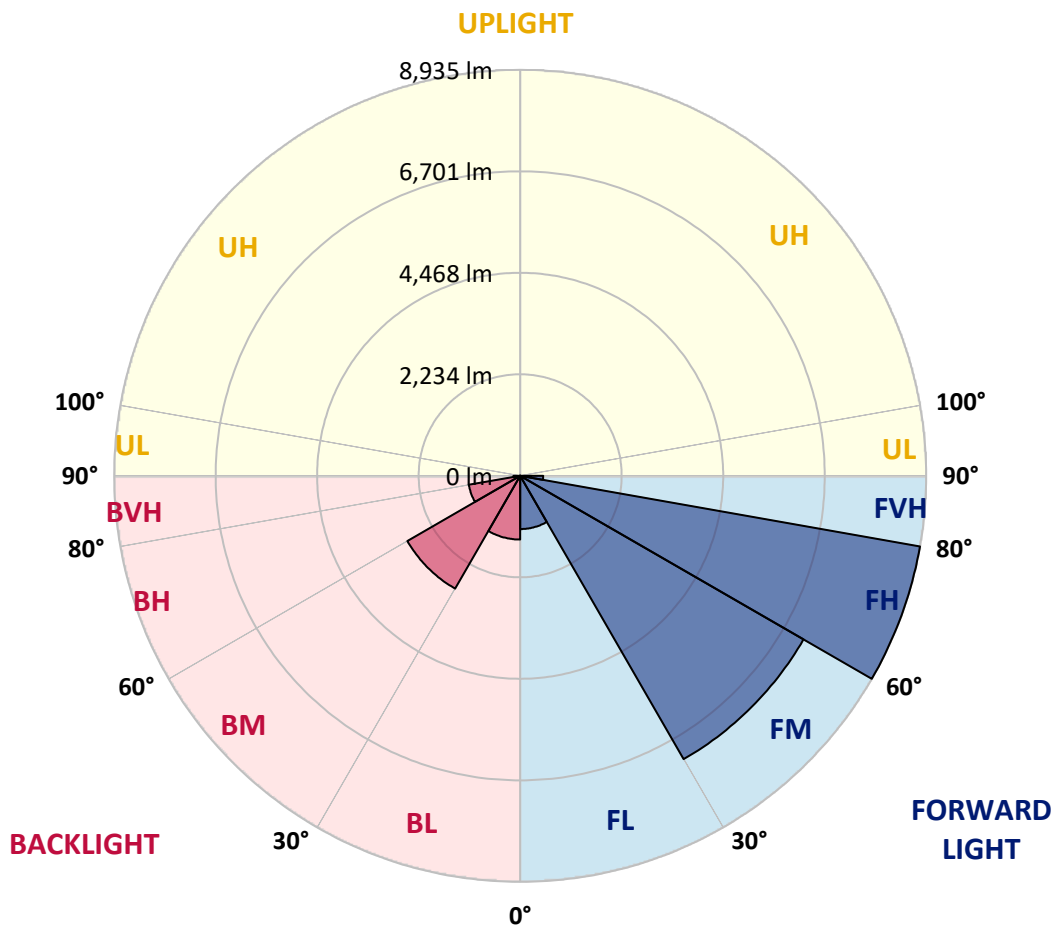
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.4	5.0			
FM (30°-60°)	7199.5	30.8			
FH (60°-80°)	8935.1	38.2			G4/12000
FVH (80°-90°)	508.4	2.2			G4/750
BL (0°-30°)	1402.1	6.0	B3/2500		
BM (30°-60°)	2866.7	12.3	B3/5000		
BH (60°-80°)	1147.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	147.7	0.6			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°	36°	45°	55°	65°	75°
0°	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4
2.5°	2872.7	2890.4	2898.0	2894.2	2913.2	2910.7	2937.2	2970.1	3015.6	3059.8
5°	2651.6	2670.5	2687.0	2702.1	2738.8	2750.2	2791.9	2855.1	2938.5	3023.1
7.5°	2445.6	2462.0	2487.3	2515.1	2577.0	2588.4	2657.9	2756.5	2872.7	2996.6
10°	2277.5	2293.9	2320.4	2352.0	2429.1	2443.0	2531.5	2662.9	2814.6	2971.3
12.5°	2205.4	2210.5	2225.7	2257.3	2324.2	2333.1	2430.4	2580.8	2757.7	2952.4
15°	2201.6	2211.8	2213.0	2229.4	2285.1	2288.8	2378.6	2527.7	2722.4	2948.6
17.5°	2239.6	2247.1	2235.8	2245.9	2292.6	2299.0	2369.7	2502.4	2711.0	2965.0
20°	2340.7	2347.0	2312.9	2299.0	2333.1	2338.1	2407.6	2518.9	2722.4	2999.1
22.5°	2555.5	2559.3	2475.9	2419.0	2421.6	2424.1	2484.7	2585.9	2766.6	3061.1
25°	2890.4	2887.9	2755.2	2645.3	2582.1	2568.2	2608.6	2694.5	2841.2	3143.2
27.5°	3282.2	3263.3	3130.6	2966.3	2828.5	2808.3	2799.4	2836.1	2947.3	3251.9
30°	3724.6	3706.9	3564.1	3349.2	3158.4	3125.5	3042.1	3023.1	3105.3	3399.8
32.5°	4209.9	4198.5	4027.9	3767.6	3512.3	3474.3	3334.1	3283.5	3348.0	3623.5
35°	4616.9	4606.8	4465.2	4197.3	3885.1	3838.3	3695.5	3638.6	3671.5	3910.4
37.5°	4984.7	4979.6	4858.3	4647.2	4324.9	4268.0	4107.5	4088.6	4082.3	4288.3
40°	5325.9	5313.3	5186.9	5075.7	4836.8	4785.0	4643.4	4627.0	4579.0	4753.4
42.5°	5703.8	5670.9	5487.7	5435.9	5371.4	5328.4	5243.7	5246.3	5140.1	5277.9
45°	6012.2	5993.2	5804.9	5774.6	5844.1	5826.4	5899.7	5918.6	5712.6	5827.6
47.5°	6343.3	6325.6	6166.4	6144.9	6333.2	6338.2	6597.3	6603.7	6271.3	6398.9
50°	6751.5	6726.3	6568.3	6594.8	6805.9	6824.8	7298.8	7255.8	6785.7	6979.0
52.5°	7020.7	7035.9	7001.8	7044.7	7332.9	7350.6	7988.8	7878.9	7295.0	7551.6
55°	7219.2	7249.5	7355.7	7454.2	7889.0	7906.7	8639.7	8471.6	7717.1	8082.4
57.5°	7474.5	7431.5	7629.9	7822.0	8417.3	8464.1	9272.9	9042.9	8091.2	8539.9
60°	7841.0	7810.6	7964.8	8249.2	9008.8	9083.3	9942.8	9557.3	8365.5	8902.6
62.5°	8584.1	8508.3	8532.3	8783.8	9754.5	9853.0	10698.6	10006.0	8502.0	9044.2
65°	9695.1	9564.9	9443.5	9618.0	10804.7	10902.0	11551.7	10358.6	8451.4	8769.9
67.5°	11094.1	10965.2	10816.1	10980.4	12351.7	12428.8	12604.5	10557.0	8053.3	7713.3
70°	12248.0	12200.0	12378.2	13054.4	14822.5	14825.1	13954.3	10392.7	6962.6	5468.7
72.5°	12095.1	12066.1	13005.1	15095.5	17936.7	17869.7	15232.0	9149.1	4690.2	2467.1
75°	9922.5	10110.9	11565.6	15058.9	19055.2	19046.3	14449.7	5816.3	1940.0	1022.5
77.5°	5320.8	5619.1	7508.6	11118.2	14875.6	15099.3	10158.9	2034.8	832.9	654.7
80°	1735.3	1995.6	2992.8	5660.8	9666.0	9624.3	4354.0	798.8	570.0	463.8
82.5°	736.8	767.2	1337.2	2673.1	4960.6	4883.5	1386.5	458.8	400.6	317.2
85°	288.2	322.3	590.2	1236.1	2148.6	2101.8	500.5	227.5	256.6	207.3
87.5°	94.8	115.0	211.1	423.4	668.6	644.6	122.6	78.4	111.2	94.8
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°
3115.4	0°	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4
3124.3	2.5°	3142.0	3162.2	3186.2	3221.6	3251.9	3277.2	3303.7	3320.2	3326.5	3345.4
3129.3	5°	3164.7	3208.9	3268.3	3326.5	3383.3	3417.5	3447.8	3463.0	3476.9	3487.0
3143.2	7.5°	3202.6	3259.5	3353.0	3428.8	3476.9	3504.7	3524.9	3519.8	3524.9	3527.4
3158.4	10°	3235.5	3315.1	3426.3	3498.4	3535.0	3536.3	3531.2	3513.5	3504.7	3505.9
3181.1	12.5°	3274.7	3363.1	3483.2	3543.9	3554.0	3526.2	3504.7	3474.3	3463.0	3457.9
3215.3	15°	3327.7	3428.8	3545.1	3567.9	3542.6	3507.2	3470.6	3421.3	3396.0	3375.8
3273.4	17.5°	3392.2	3503.4	3593.1	3576.7	3522.4	3464.2	3404.8	3330.3	3278.4	3257.0
3353.0	20°	3481.9	3581.8	3629.8	3557.8	3475.6	3387.1	3286.0	3195.0	3147.0	3125.5
3454.1	22.5°	3590.6	3686.7	3665.2	3524.9	3408.6	3267.1	3140.7	3073.7	3049.7	3034.5
3584.3	25°	3720.8	3802.9	3690.5	3476.9	3298.7	3107.8	3010.5	2989.0	2977.6	2966.3
3743.5	27.5°	3890.2	3934.4	3709.4	3406.1	3126.8	2938.5	2903.1	2906.9	2903.1	2884.1
3964.7	30°	4113.9	4105.0	3727.1	3291.1	2929.6	2785.5	2788.1	2804.5	2807.0	2794.4
4273.1	32.5°	4408.3	4318.6	3736.0	3142.0	2741.3	2651.6	2654.1	2671.8	2684.4	2662.9
4676.3	35°	4764.7	4567.6	3722.1	2954.9	2596.0	2523.9	2505.0	2510.0	2513.8	2493.6
5165.4	37.5°	5180.6	4846.9	3660.1	2747.6	2475.9	2398.8	2358.4	2324.2	2304.0	2285.1
5719.0	40°	5636.8	5151.5	3546.4	2545.4	2341.9	2266.1	2205.4	2141.0	2072.7	2047.4
6305.4	42.5°	6114.5	5464.9	3408.6	2352.0	2187.7	2125.8	2061.4	1967.8	1865.5	1813.6
6914.6	45°	6610.0	5785.9	3273.4	2161.2	2029.8	2003.2	1928.6	1816.2	1704.9	1639.2
7525.0	47.5°	7095.3	6089.3	3075.0	1969.1	1881.9	1911.0	1852.8	1749.2	1625.3	1521.7
8130.4	50°	7559.1	6373.6	2750.2	1774.5	1761.8	1883.1	1827.5	1678.4	1536.9	1404.1
8724.4	52.5°	8019.2	6603.7	2334.3	1597.5	1697.4	1875.6	1794.7	1630.4	1457.2	1318.2
9283.0	55°	8409.7	6722.5	1933.7	1445.9	1603.8	1811.1	1755.5	1573.5	1344.7	1196.9
9666.0	57.5°	8632.1	6626.4	1600.0	1296.7	1474.9	1704.9	1688.5	1452.2	1210.8	1097.0
9740.6	60°	8536.1	6237.1	1327.1	1166.5	1352.3	1589.9	1572.2	1332.1	1108.4	1001.0
9341.2	62.5°	8006.5	5495.3	1110.9	1052.8	1241.1	1472.4	1456.0	1239.8	1030.0	926.4
8280.8	65°	6939.8	4470.3	942.8	958.0	1128.6	1330.8	1354.9	1162.7	968.1	867.0
6406.5	67.5°	5293.0	3238.0	811.4	875.9	1018.7	1191.8	1261.3	1107.1	916.3	820.2
3706.9	70°	3016.8	1838.9	700.2	796.2	921.4	1062.9	1189.3	1062.9	860.7	781.1
1389.0	72.5°	1143.8	844.3	605.4	716.6	827.8	954.2	1109.7	993.4	796.2	736.8
717.9	75°	610.4	514.4	509.3	623.1	720.4	848.0	1009.8	925.1	748.2	778.5
496.7	77.5°	415.8	364.0	425.9	533.3	602.9	730.5	903.7	821.5	648.4	645.8
343.8	80°	288.2	257.8	346.3	429.7	466.4	614.2	788.6	705.2	528.3	492.9
212.3	82.5°	173.1	168.1	259.1	321.0	329.9	473.9	653.4	591.5	432.2	376.6
126.4	85°	94.8	99.8	165.6	188.3	192.1	331.1	511.9	457.5	332.4	279.3
45.5	87.5°	26.5	34.1	60.7	74.6	92.3	171.9	304.6	271.7	166.8	116.3
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>
3115.4
3344.2
3489.5
3531.2
3508.5
3455.4
3382.1
3258.2
3123.0
3037.1
2966.3
2887.9
2800.7
2673.1
2507.5
2297.7
2058.8
1820.0
1634.2
1510.3
1392.8
1303.0
1184.2
1081.9
985.8
910.0
850.6
805.1
771.0
726.7
<i>803.8</i>
595.3
471.4
379.2
281.8
116.3
0.0

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