

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: P940702

Luminaire Tested: **GALN-SB3D-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-927-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

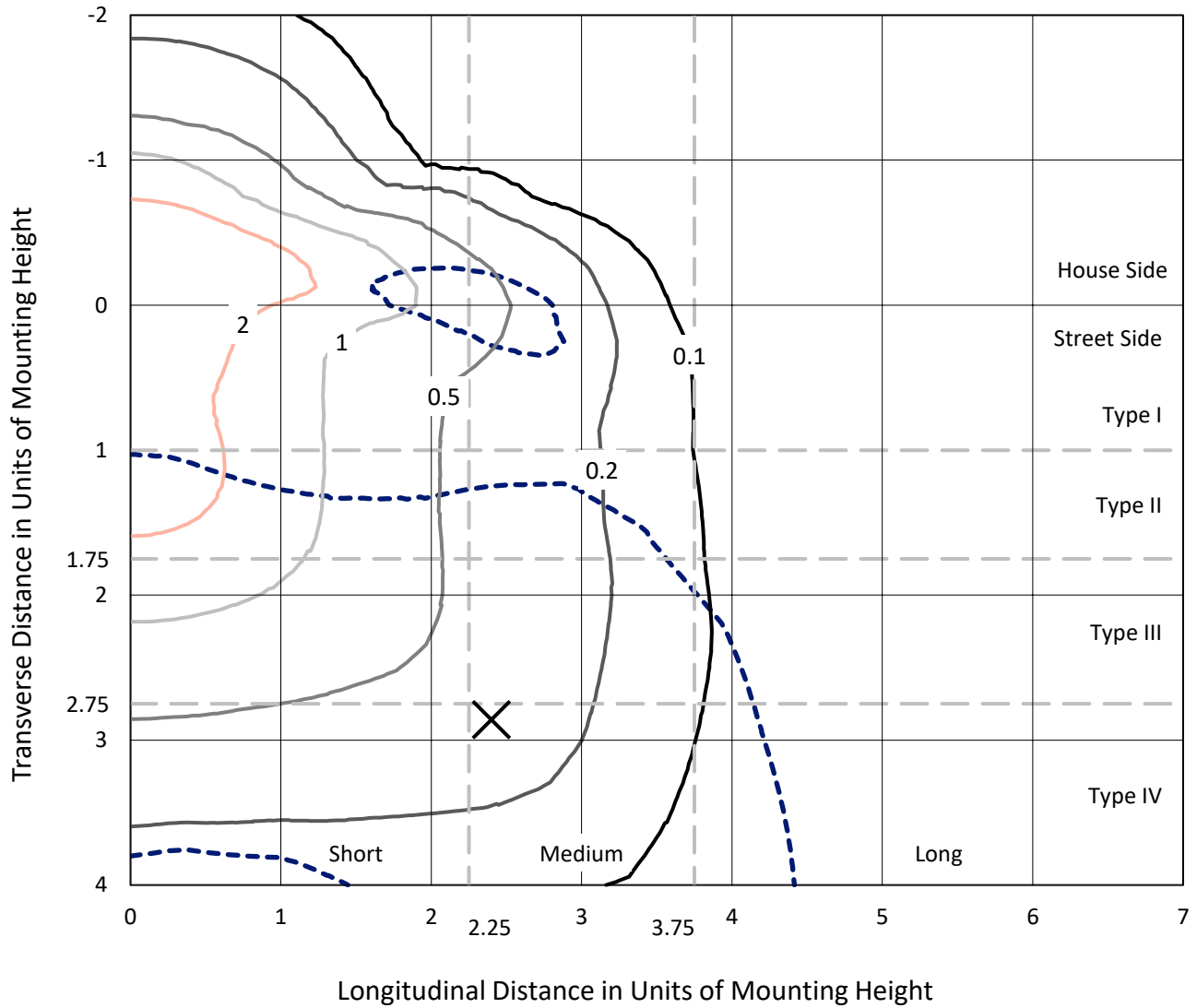
Lumens per Lamp: N/A  
Luminaire Lumens: 18422 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

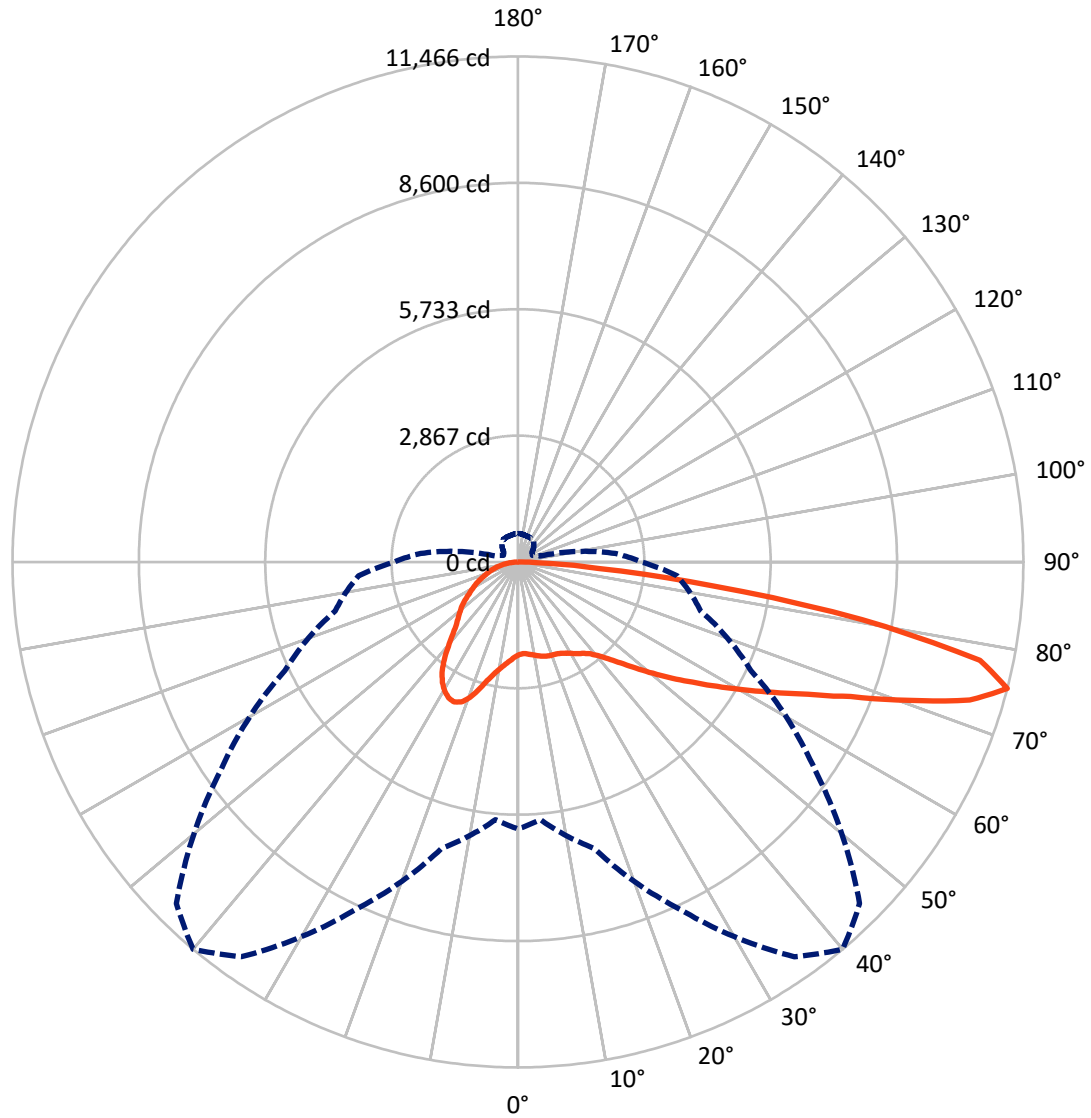
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5707.7	0.0	5707.7
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	12714.2	0.0	12714.2
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	18422.0	0.0	18422.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.3	1.1
10°-20°	706.0	3.8
20°-30°	1289.1	7.0
30°-40°	1828.3	9.9
40°-50°	2468.7	13.4
50°-60°	3321.1	18.0
60°-70°	4215.3	22.9
70°-80°	3825.6	20.8
80°-90°	557.7	3.0
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°	18422.0	100.0
0°-180°	18422.0	100.0



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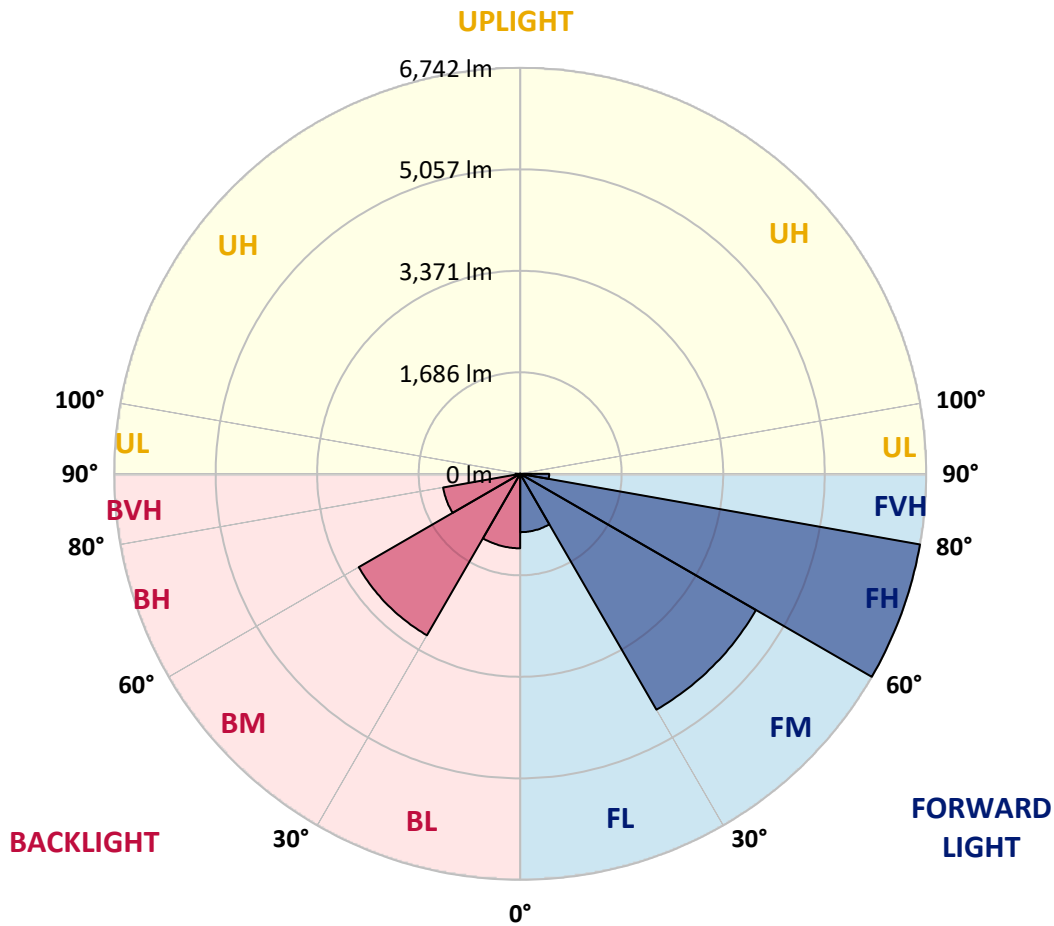
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.0	5.3			
FM (30°-60°)	4522.2	24.5			
FH (60°-80°)	6742.2	36.6			G3/7500
FVH (80°-90°)	480.9	2.6			G3/500
BL (0°-30°)	1236.4	6.7	B3/2500		
BM (30°-60°)	3095.9	16.8	B3/5000		
BH (60°-80°)	1298.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	76.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6
2.5°	2074.3	2086.1	2083.1	2079.2	2079.2	2080.2	2079.2	2086.1	2092.9	2099.7
5°	2095.8	2107.6	2101.7	2096.8	2092.9	2091.9	2089.0	2088.0	2091.9	2100.7
7.5°	2137.8	2149.6	2140.8	2132.0	2124.2	2120.3	2116.4	2110.5	2107.6	2112.4
10°	2184.7	2196.5	2185.7	2170.1	2157.4	2152.5	2148.6	2142.7	2138.8	2141.8
12.5°	2231.6	2243.4	2228.7	2207.2	2190.6	2187.7	2182.8	2180.8	2179.9	2178.9
15°	2275.6	2285.4	2266.8	2241.4	2223.8	2218.9	2214.1	2217.0	2221.9	2227.7
17.5°	2309.8	2319.6	2292.2	2259.0	2242.4	2240.4	2237.5	2247.3	2261.0	2275.6
20°	2341.1	2350.8	2315.7	2270.7	2251.2	2251.2	2252.2	2272.7	2292.2	2313.7
22.5°	2385.0	2392.9	2349.9	2288.3	2260.0	2261.9	2269.8	2290.3	2314.7	2344.0
25°	2450.5	2456.4	2403.6	2321.5	2289.3	2295.2	2302.0	2311.8	2335.2	2369.4
27.5°	2556.0	2560.9	2491.5	2380.2	2331.3	2341.1	2350.8	2344.0	2354.8	2384.1
30°	2704.6	2707.5	2619.5	2472.0	2402.6	2407.5	2409.5	2381.1	2360.6	2384.1
32.5°	2880.4	2879.4	2774.9	2583.4	2483.7	2478.8	2462.2	2406.5	2358.7	2379.2
35°	3153.0	3142.3	3007.4	2739.7	2575.6	2545.3	2506.2	2434.9	2368.4	2374.3
37.5°	3604.4	3571.2	3384.6	2995.7	2712.4	2635.2	2577.5	2480.8	2389.9	2372.3
40°	4113.5	4071.5	3866.3	3346.5	2917.6	2793.5	2700.6	2546.3	2425.1	2381.1
42.5°	4717.3	4657.7	4436.9	3759.8	3177.5	2997.7	2858.0	2629.3	2476.9	2409.5
45°	5458.9	5379.8	5067.1	4225.9	3504.8	3265.4	3078.8	2755.4	2556.0	2464.2
47.5°	6208.4	6227.9	5783.3	4759.3	3897.6	3595.6	3355.3	2944.9	2671.3	2552.1
50°	7004.7	7018.4	6495.6	5350.5	4343.1	3968.9	3666.0	3156.9	2831.6	2677.2
52.5°	7626.1	7628.0	7142.4	5969.0	4807.2	4379.3	4001.1	3399.3	3017.2	2843.3
55°	8015.0	8010.1	7595.8	6554.2	5340.7	4810.2	4372.4	3674.8	3243.9	3038.7
57.5°	8297.3	8282.7	7908.5	7057.4	5909.4	5319.2	4792.6	3987.5	3511.6	3271.3
60°	8404.8	8396.0	8120.5	7492.2	6507.3	5882.0	5277.2	4337.2	3815.5	3545.8
62.5°	8445.9	8462.5	8328.6	7913.4	7147.3	6505.4	5809.7	4755.4	4157.5	3856.5
65°	8590.5	8620.8	8593.4	8464.4	7870.4	7235.3	6516.1	5252.8	4530.7	4189.7
67.5°	8876.8	8907.0	8918.8	9124.0	8753.6	8144.9	7397.5	5872.2	4967.5	4535.6
70°	8869.9	8861.1	9068.3	9648.6	9859.7	9404.4	8585.6	6634.4	5488.2	4822.9
72.5°	8073.6	8003.2	8492.8	9642.8	10780.1	10719.5	10036.5	7617.3	5937.7	4858.0
75°	6056.9	5869.3	6734.0	8690.1	10933.5	11466.0	10958.9	8227.0	5831.2	4292.3
77.5°	2590.2	2401.7	3420.8	6433.1	9785.4	10718.5	10112.8	7177.6	4654.8	2838.4
80°	678.1	677.1	1033.7	2916.6	6654.9	7915.3	6944.1	4635.3	2659.6	1014.2
82.5°	280.4	273.6	380.1	1134.4	3251.7	4441.8	3625.0	2067.5	960.5	274.6
85°	104.5	103.6	184.7	391.8	1147.1	1832.0	1325.9	528.6	239.4	133.9
87.5°	29.3	28.3	40.1	135.8	279.4	424.1	226.7	87.0	67.4	52.8
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°
2106.6	0°	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6	2106.6
2110.5	2.5°	2113.4	2118.3	2127.1	2133.9	2142.7	2152.5	2166.2	2175.0	2183.8	2189.6
2115.4	5°	2122.2	2133.0	2155.4	2177.9	2204.3	2228.7	2257.1	2277.6	2294.2	2299.1
2133.0	7.5°	2141.8	2159.3	2197.4	2235.6	2277.6	2317.6	2358.7	2393.8	2422.2	2432.9
2164.2	10°	2176.0	2199.4	2253.1	2306.9	2362.6	2424.1	2476.9	2527.7	2567.8	2584.4
2201.4	12.5°	2218.9	2248.3	2318.6	2392.9	2470.1	2555.1	2623.5	2686.0	2735.8	2758.3
2253.1	15°	2274.6	2312.7	2402.6	2502.3	2615.6	2733.9	2820.8	2890.2	2945.9	2973.2
2306.9	17.5°	2335.2	2386.0	2499.4	2649.8	2812.0	2967.4	3069.0	3119.8	3177.5	3203.8
2356.7	20°	2393.8	2456.4	2618.6	2837.4	3053.4	3218.5	3300.6	3314.2	3318.2	3321.1
2403.6	22.5°	2454.4	2538.4	2768.1	3073.9	3305.5	3419.8	3431.5	3372.9	3290.8	3252.7
2449.5	25°	2520.9	2632.2	2963.5	3334.8	3522.4	3536.0	3446.2	3303.5	3148.1	3076.8
2486.7	27.5°	2585.3	2740.7	3198.0	3583.9	3678.7	3558.5	3365.1	3162.8	2975.2	2900.0
2513.0	30°	2649.8	2864.8	3456.9	3801.8	3750.0	3502.8	3237.1	3011.4	2822.8	2743.6
2536.5	32.5°	2715.3	3009.4	3754.9	3959.1	3737.3	3384.6	3077.8	2841.3	2675.2	2592.2
2557.0	35°	2789.6	3187.2	4037.3	4045.1	3652.3	3210.7	2867.7	2638.1	2493.5	2427.1
2581.4	37.5°	2886.3	3412.9	4286.4	4066.6	3503.8	2955.7	2606.8	2397.7	2278.5	2248.3
2617.6	40°	3006.5	3684.6	4477.0	4032.4	3284.0	2645.9	2321.5	2154.5	2087.0	2093.9
2666.4	42.5°	3162.8	3988.4	4610.8	3944.5	2978.1	2326.4	2071.4	1997.1	2029.4	2056.7
2739.7	45°	3366.0	4304.0	4693.9	3795.0	2632.2	2055.8	1923.9	1941.5	1965.9	1968.8
2858.0	47.5°	3625.9	4623.5	4748.6	3569.3	2279.5	1865.2	1830.1	1834.0	1829.1	1808.6
3034.8	50°	3950.3	4934.2	4797.5	3270.3	1979.6	1746.0	1699.1	1685.5	1618.0	1551.6
3270.3	52.5°	4319.7	5219.6	4818.0	2899.0	1746.0	1646.4	1570.2	1484.2	1358.1	1337.6
3566.3	55°	4730.0	5483.4	4765.2	2442.7	1549.6	1518.4	1403.1	1299.5	1285.8	1268.2
3956.2	57.5°	5220.5	5767.7	4657.7	1933.6	1348.4	1368.9	1256.5	1268.2	1243.8	1216.5
4457.4	60°	5756.9	6061.8	4469.2	1469.5	1140.3	1182.3	1218.4	1217.4	1210.6	1188.1
4986.0	62.5°	6239.6	6255.3	4097.9	1125.6	957.5	1037.7	1136.3	1135.4	1129.5	1116.8
5538.1	65°	6526.9	6225.9	3478.4	886.2	807.1	918.5	1025.0	1032.8	1033.7	1032.8
5953.3	67.5°	6476.1	5883.0	2628.3	705.5	683.0	797.3	914.5	925.3	933.1	935.1
6006.1	70°	5901.6	5129.7	1713.8	562.8	572.6	690.8	810.0	820.7	827.6	835.4
5211.7	72.5°	4600.1	3771.5	981.0	455.3	475.8	598.9	706.4	719.1	723.0	737.7
3626.9	75°	2803.2	2218.0	529.6	358.6	390.8	512.0	603.8	618.5	625.3	642.9
1781.2	77.5°	1332.7	960.5	301.9	279.4	314.6	418.2	510.0	526.6	508.1	517.9
491.5	80°	450.4	356.6	190.5	213.0	240.4	326.3	408.4	425.0	385.9	384.0
163.2	82.5°	157.3	144.6	121.2	141.7	155.4	233.5	308.8	330.3	287.3	286.3
73.3	85°	61.6	58.6	67.4	77.2	92.8	143.6	203.2	214.0	176.9	142.7
21.5	87.5°	12.7	13.7	16.6	17.6	28.3	49.8	73.3	89.9	71.3	60.6
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>
2106.6
2185.7
2301.0
2433.9
2585.3
2758.3
2971.3
3202.9
3328.9
3263.4
3087.6
2908.8
2752.4
2602.9
2441.7
2269.8
2117.3
2082.2
1988.4
1824.2
1560.4
1344.5
1271.2
1211.6
1180.3
1111.9
1032.8
937.0
839.3
743.6
644.9
510.0
380.1
272.6
140.7
55.7
0.0

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