

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: P948567

Luminaire Tested: **GALN-SB3C-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948567  
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-SB3C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

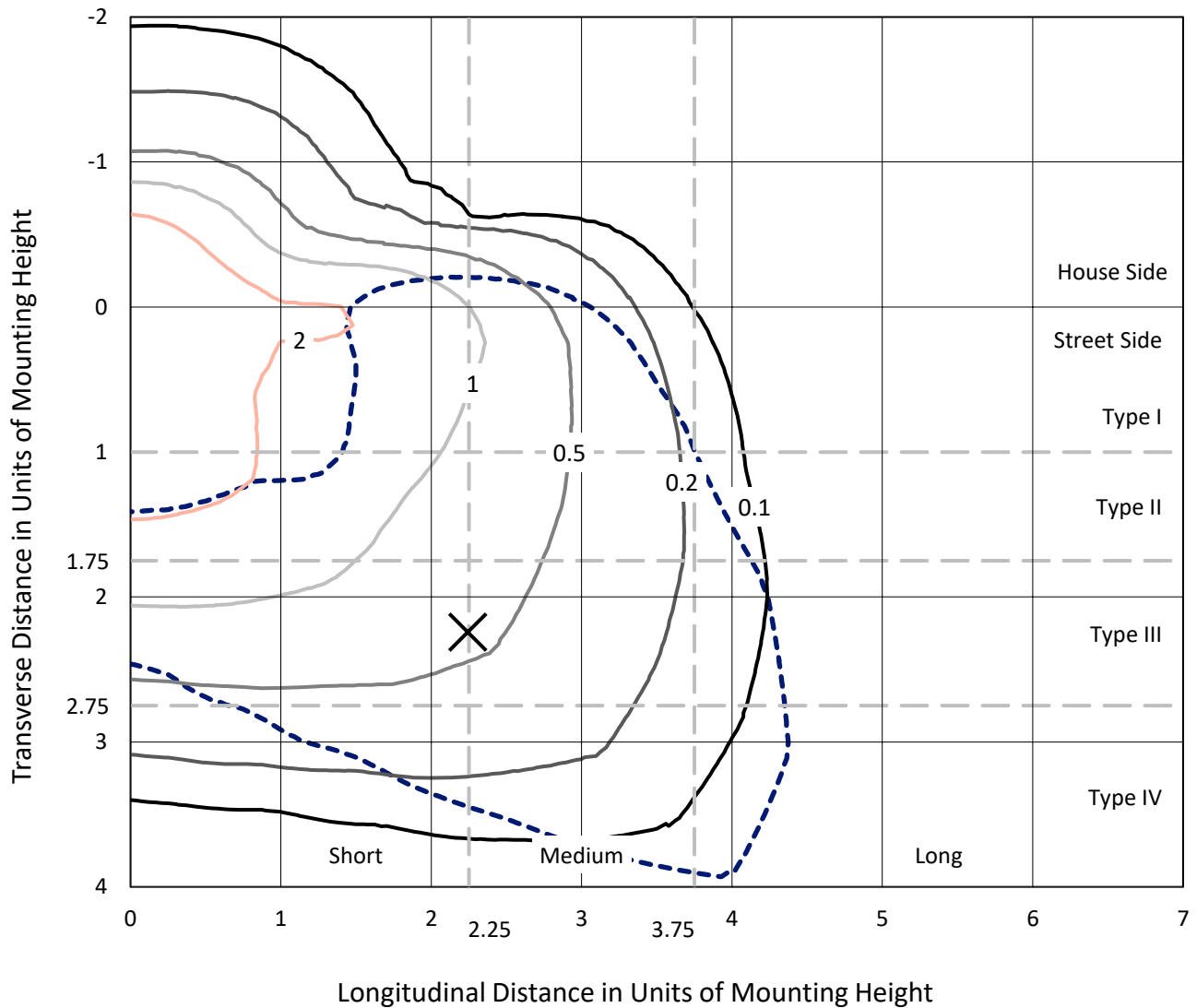
Lumens per Lamp: N/A  
Luminaire Lumens: 19501 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

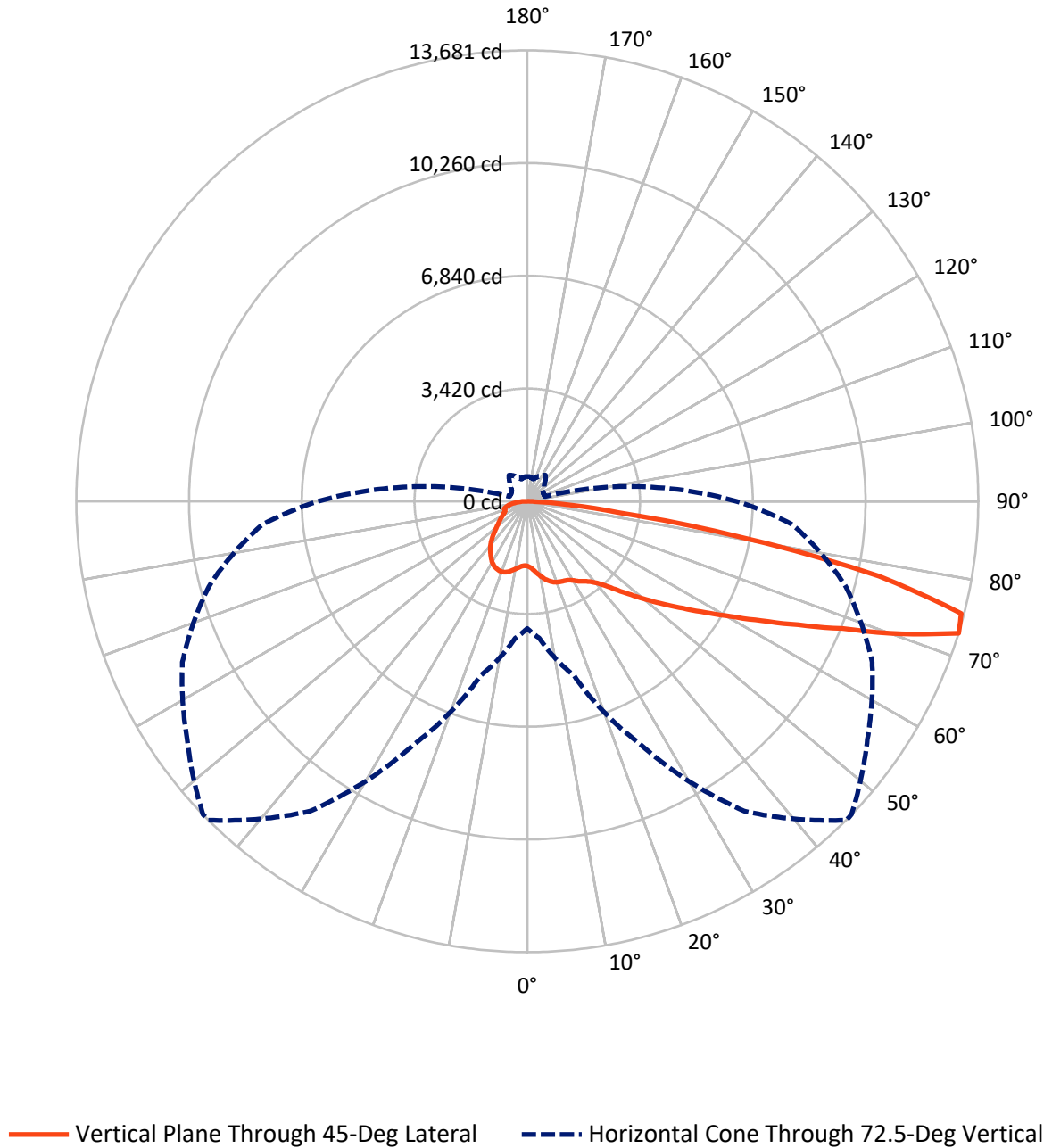
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	4408.5	0.0	4408.5
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	15092.5	0.0	15092.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	19501.0	0.0	19501.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.2	1.0
10°-20°	667.6	3.4
20°-30°	1161.3	6.0
30°-40°	1664.8	8.5
40°-50°	2344.1	12.0
50°-60°	3590.5	18.4
60°-70°	5201.4	26.7
70°-80°	4153.6	21.3
80°-90°	517.3	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°	19501.0	100.0
0°-180°	19501.0	100.0

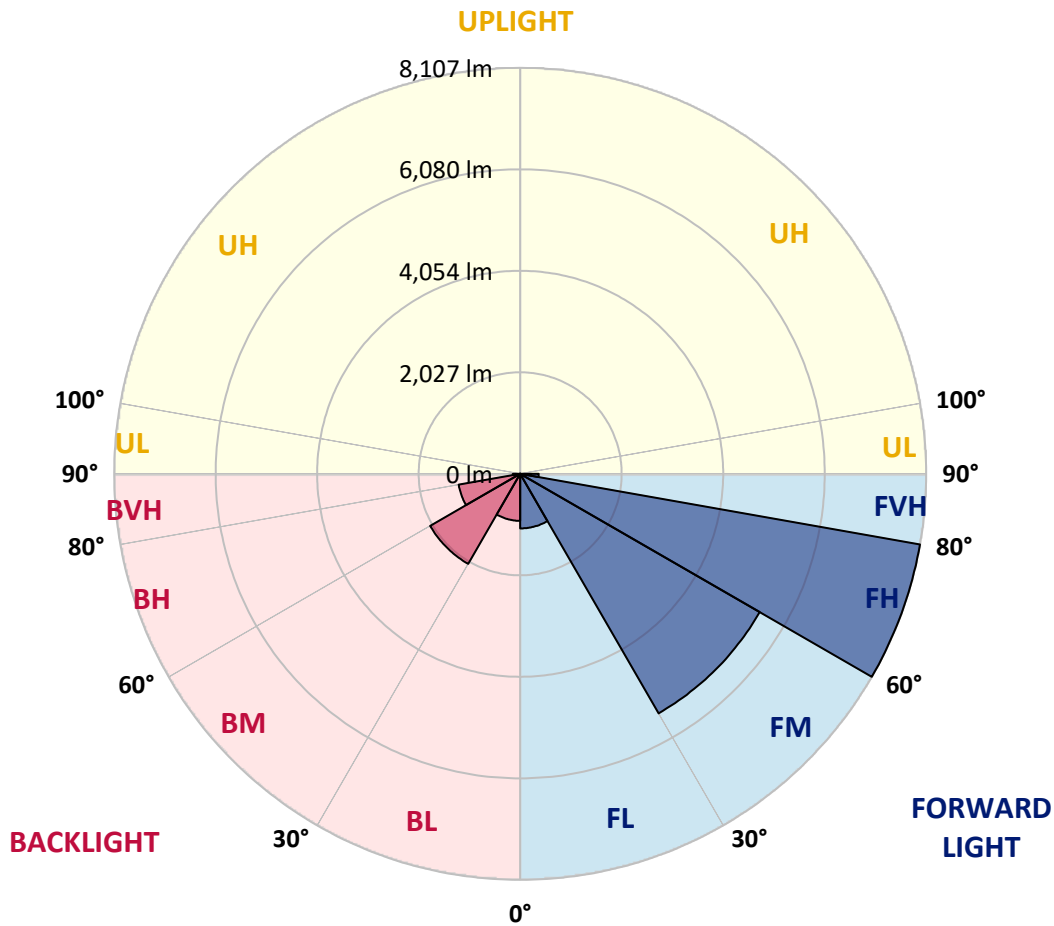


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.5	5.6			
FM (30°-60°)	5523.7	28.3			
FH (60°-80°)	8107.1	41.6			G4/12000
FVH (80°-90°)	371.1	1.9			G3/500
BL (0°-30°)	938.6	4.8	B2/1000		
BM (30°-60°)	2075.8	10.6	B2/2500		
BH (60°-80°)	1247.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	146.2	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°	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3
2.5°	2044.3	2057.7	2045.3	2034.0	2028.9	2015.6	2014.5	2006.3	2001.2	1986.8
5°	2187.1	2204.6	2184.0	2161.4	2140.9	2108.0	2103.9	2080.3	2053.6	2022.7
7.5°	2348.4	2363.8	2340.2	2306.3	2270.3	2215.9	2214.8	2171.7	2129.6	2077.2
10°	2489.1	2509.7	2477.8	2431.6	2386.4	2324.8	2317.6	2268.3	2214.8	2147.0
12.5°	2613.4	2627.8	2597.0	2540.5	2488.1	2426.5	2417.2	2362.8	2303.2	2226.1
15°	2712.1	2730.6	2689.5	2628.8	2573.4	2512.8	2504.5	2455.2	2395.7	2314.5
17.5°	2776.8	2792.2	2750.1	2682.3	2628.8	2578.5	2572.3	2531.3	2478.9	2396.7
20°	2801.4	2817.9	2773.7	2704.9	2655.6	2616.5	2613.4	2583.6	2547.7	2472.7
22.5°	2826.1	2841.5	2784.0	2712.1	2668.9	2644.3	2643.2	2623.7	2609.3	2547.7
25°	2925.7	2929.8	2852.8	2749.0	2687.4	2665.8	2664.8	2663.8	2669.9	2621.7
27.5°	3012.0	3011.0	2945.3	2847.7	2752.1	2706.9	2705.9	2716.2	2735.7	2695.6
30°	3138.4	3127.1	3049.0	2947.3	2860.0	2790.1	2784.0	2774.7	2790.1	2758.3
32.5°	3406.5	3370.6	3244.2	3063.4	2949.4	2895.9	2887.7	2830.2	2836.4	2816.8
35°	3790.7	3743.5	3575.0	3283.2	3060.3	2984.3	2980.2	2907.2	2894.9	2877.5
37.5°	4247.9	4189.3	3993.1	3601.7	3251.4	3087.0	3080.9	3015.1	2964.8	2946.3
40°	4707.1	4633.1	4470.8	3990.0	3532.9	3258.6	3239.1	3139.4	3081.9	3051.1
42.5°	5152.9	5091.3	4952.6	4425.6	3880.1	3509.2	3466.1	3295.6	3252.4	3223.7
45°	5547.4	5491.9	5390.2	4891.0	4286.9	3850.3	3808.2	3529.8	3516.4	3516.4
47.5°	5867.9	5855.6	5747.7	5365.6	4766.7	4238.6	4165.7	3855.4	3891.4	3946.9
50°	6223.4	6189.5	6074.4	5833.0	5330.6	4683.4	4623.9	4255.1	4389.6	4541.7
52.5°	6550.0	6568.5	6440.1	6319.9	5967.6	5179.6	5074.8	4726.6	5017.3	5269.0
55°	6886.0	6887.0	6851.0	6834.6	6635.3	5728.2	5613.1	5293.7	5755.9	6068.2
57.5°	7201.3	7203.4	7256.8	7401.7	7409.9	6361.0	6230.5	5990.2	6576.7	6895.2
60°	7482.8	7497.2	7643.1	7982.1	8091.0	7086.3	6963.0	6813.0	7425.3	7745.8
62.5°	7577.3	7629.7	7954.4	8436.2	8763.9	7975.9	7854.7	7765.3	8317.0	8614.9
65°	7417.1	7537.3	8164.9	8811.1	9456.3	9033.0	8912.8	8815.2	9243.6	9524.1
67.5°	7023.6	7178.7	8152.6	9204.6	10296.6	10304.8	10192.8	9963.7	10237.0	10344.9
70°	5987.1	6219.2	7434.5	9351.5	11261.2	12044.0	11936.1	11346.5	11228.3	10706.5
72.5°	3857.5	4169.8	5474.5	8142.3	11475.9	13680.5	13674.3	12594.6	11541.7	10003.8
75°	1407.4	1598.5	2543.6	5110.8	9633.0	13597.3	13637.4	12381.0	10535.9	7727.3
77.5°	512.6	560.9	830.1	1964.2	5924.4	10909.9	10993.1	9898.0	7499.3	3878.0
80°	269.2	295.9	425.3	762.3	2538.4	6479.2	6609.6	5882.3	3524.7	1168.0
82.5°	149.0	161.3	238.3	414.0	1143.4	2770.6	2848.7	2323.7	1239.9	495.2
85°	80.1	85.3	112.0	226.0	558.8	960.5	982.1	694.5	494.1	290.7
87.5°	23.6	28.8	37.0	71.9	218.8	215.7	220.9	137.7	195.2	146.9
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°
1967.3	0°	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3	1967.3
1982.7	2.5°	1976.5	1973.4	1962.1	1957.0	1950.8	1949.8	1954.9	1956.0	1957.0	1958.0
2005.3	5°	1995.0	1984.7	1974.5	1968.3	1970.4	1971.4	1981.7	1988.8	1994.0	1998.1
2047.4	7.5°	2031.0	2022.7	2005.3	2004.3	2007.3	2016.6	2029.9	2046.4	2055.6	2062.8
2101.8	10°	2084.4	2069.0	2048.4	2051.5	2057.7	2071.0	2098.8	2112.1	2127.5	2140.9
2168.6	12.5°	2138.8	2125.5	2101.8	2103.9	2114.2	2137.8	2164.5	2180.9	2191.2	2201.5
2240.5	15°	2209.7	2186.1	2160.4	2160.4	2178.9	2204.6	2216.9	2230.3	2236.4	2247.7
2317.6	17.5°	2282.7	2251.8	2217.9	2215.9	2238.5	2250.8	2258.0	2260.1	2262.1	2274.4
2392.6	20°	2355.6	2321.7	2273.4	2269.3	2274.4	2272.4	2271.4	2269.3	2272.4	2287.8
2469.6	22.5°	2427.5	2388.5	2321.7	2303.2	2288.8	2269.3	2268.3	2267.2	2269.3	2284.7
2552.8	25°	2511.7	2464.5	2375.1	2319.6	2271.4	2244.6	2247.7	2248.8	2250.8	2263.1
2639.1	27.5°	2603.2	2550.8	2424.4	2314.5	2227.2	2208.7	2203.5	2206.6	2213.8	2233.3
2725.4	30°	2694.6	2633.0	2469.6	2294.0	2171.7	2146.0	2129.6	2136.8	2159.4	2178.9
2800.4	32.5°	2777.8	2716.2	2505.6	2248.8	2100.8	2060.8	2039.2	2048.4	2071.0	2078.2
2883.6	35°	2875.4	2805.5	2521.0	2176.8	2023.8	1962.1	1933.4	1920.0	1931.3	1924.1
2981.2	37.5°	2984.3	2911.4	2518.9	2082.3	1933.4	1862.5	1822.4	1772.1	1748.5	1723.8
3125.0	40°	3145.6	3040.8	2494.3	1968.3	1821.4	1756.7	1684.8	1599.5	1546.1	1497.8
3357.2	42.5°	3365.4	3220.6	2449.1	1843.0	1695.0	1634.4	1536.8	1437.2	1352.9	1272.8
3709.6	45°	3693.1	3455.8	2392.6	1709.4	1558.4	1498.8	1393.0	1281.0	1185.5	1082.8
4209.9	47.5°	4165.7	3772.2	2339.2	1557.4	1414.6	1360.1	1264.6	1160.8	1047.8	948.2
4933.1	50°	4814.9	4226.3	2289.8	1409.4	1272.8	1231.7	1155.7	1049.9	935.9	855.7
5780.6	52.5°	5640.9	4843.7	2269.3	1266.7	1140.3	1124.9	1064.3	965.7	857.8	790.0
6768.9	55°	6589.1	5582.3	2269.3	1130.0	1024.2	1029.4	987.2	895.8	802.3	741.7
7787.9	57.5°	7556.8	6330.2	2228.2	1003.7	925.6	947.2	920.5	840.3	756.1	693.4
8859.4	60°	8448.5	6956.8	2061.8	888.6	838.3	872.2	854.7	785.9	683.2	630.8
9755.2	62.5°	9133.7	7310.2	1741.3	797.2	766.4	805.4	796.2	714.0	669.8	648.2
10490.7	65°	9476.8	7252.7	1331.4	716.0	705.8	766.4	746.8	743.8	708.8	684.2
10730.1	67.5°	9266.2	6757.6	965.7	656.4	670.8	730.4	805.4	817.7	753.0	704.7
10056.2	70°	8342.7	5861.7	719.1	599.9	626.7	731.4	918.4	855.7	738.6	682.1
8065.3	72.5°	6346.6	4371.1	557.8	540.4	569.1	736.6	968.7	838.3	697.5	754.0
5024.5	75°	3629.4	2399.8	447.9	467.4	497.2	688.3	943.1	793.1	665.7	692.4
1990.9	77.5°	1383.8	922.5	369.8	395.5	399.6	601.0	902.0	790.0	633.8	618.4
596.9	80°	479.7	360.6	306.1	314.4	309.2	534.2	865.0	687.3	518.8	464.3
246.6	82.5°	196.2	179.8	242.4	232.2	219.8	415.0	698.6	561.9	424.3	375.0
119.2	85°	85.3	114.0	160.3	140.7	127.4	287.6	559.9	475.6	358.5	309.2
39.0	87.5°	17.5	43.1	67.8	63.7	65.7	192.1	397.6	338.0	253.7	190.0
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>
1967.3
1962.1
2000.1
2064.9
2137.8
2205.6
2251.8
2278.5
2294.0
2295.0
2279.6
2252.9
2200.5
2103.9
1946.7
1739.2
1500.9
1265.6
1070.4
936.9
850.6
784.9
735.5
683.2
622.5
641.0
676.0
696.5
672.9
747.9
692.4
564.0
448.9
370.9
308.2
149.0
0.0

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