

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: P949638

Luminaire Tested: **GALN-SB4B-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949638
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-SB4B-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19586 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

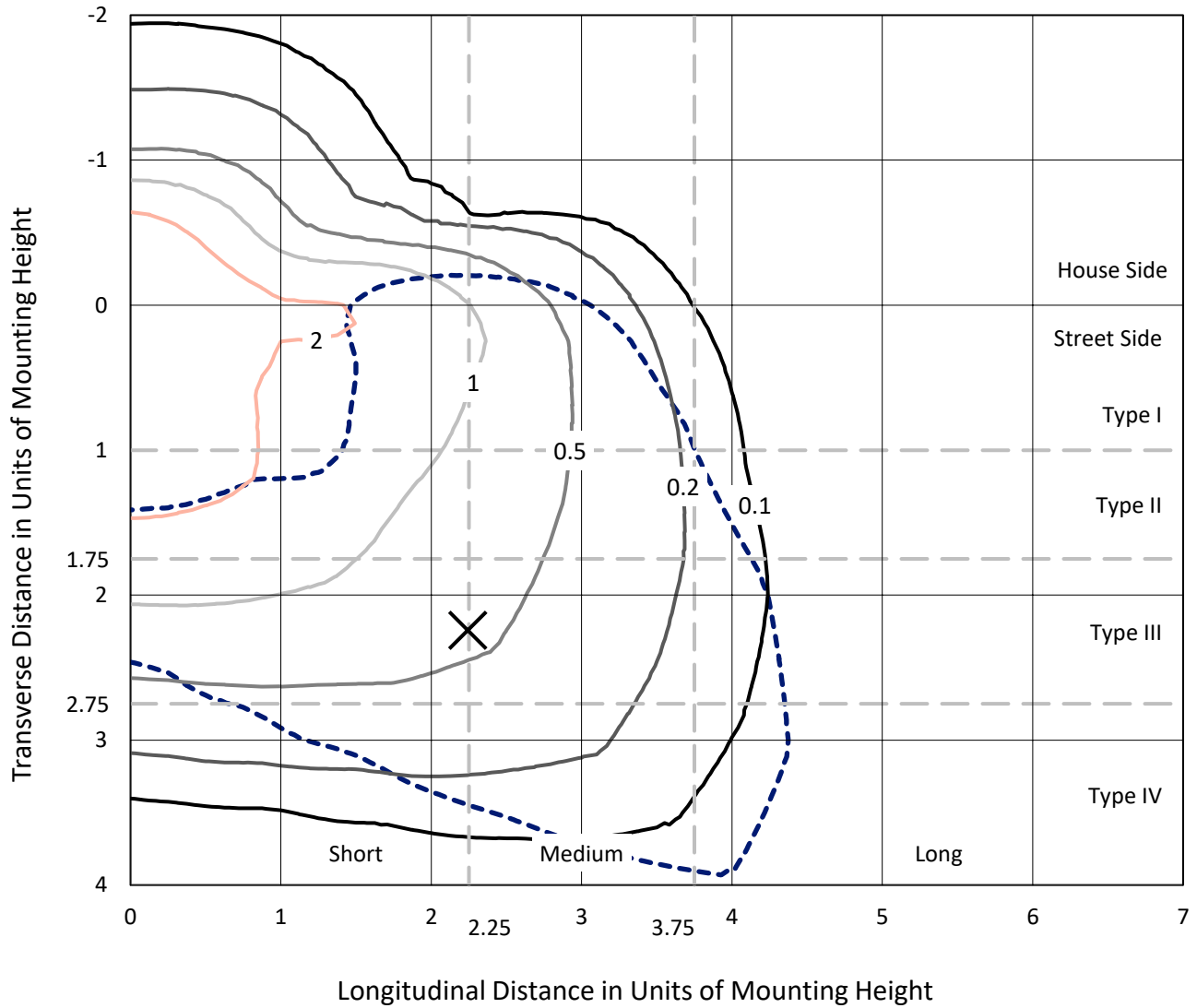
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

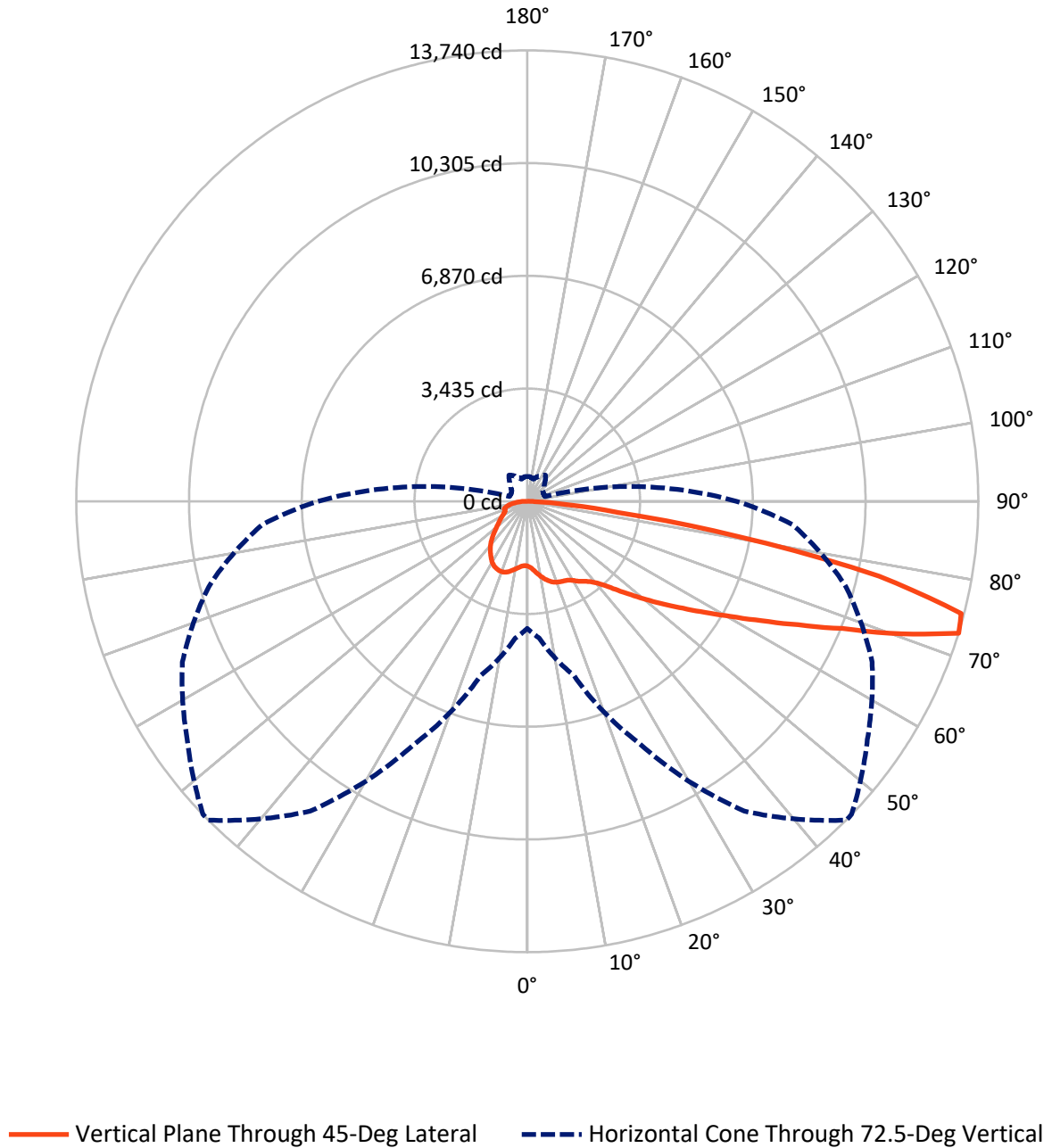
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	4427.7	0.0	4427.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15158.3	0.0	15158.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	19586.0	0.0	19586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	1.0
10°-20°	670.5	3.4
20°-30°	1166.4	6.0
30°-40°	1672.1	8.5
40°-50°	2354.4	12.0
50°-60°	3606.2	18.4
60°-70°	5224.1	26.7
70°-80°	4171.7	21.3
80°-90°	519.6	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°	19586.0	100.0
0°-180°	19586.0	100.0

Coefficient of Utilization

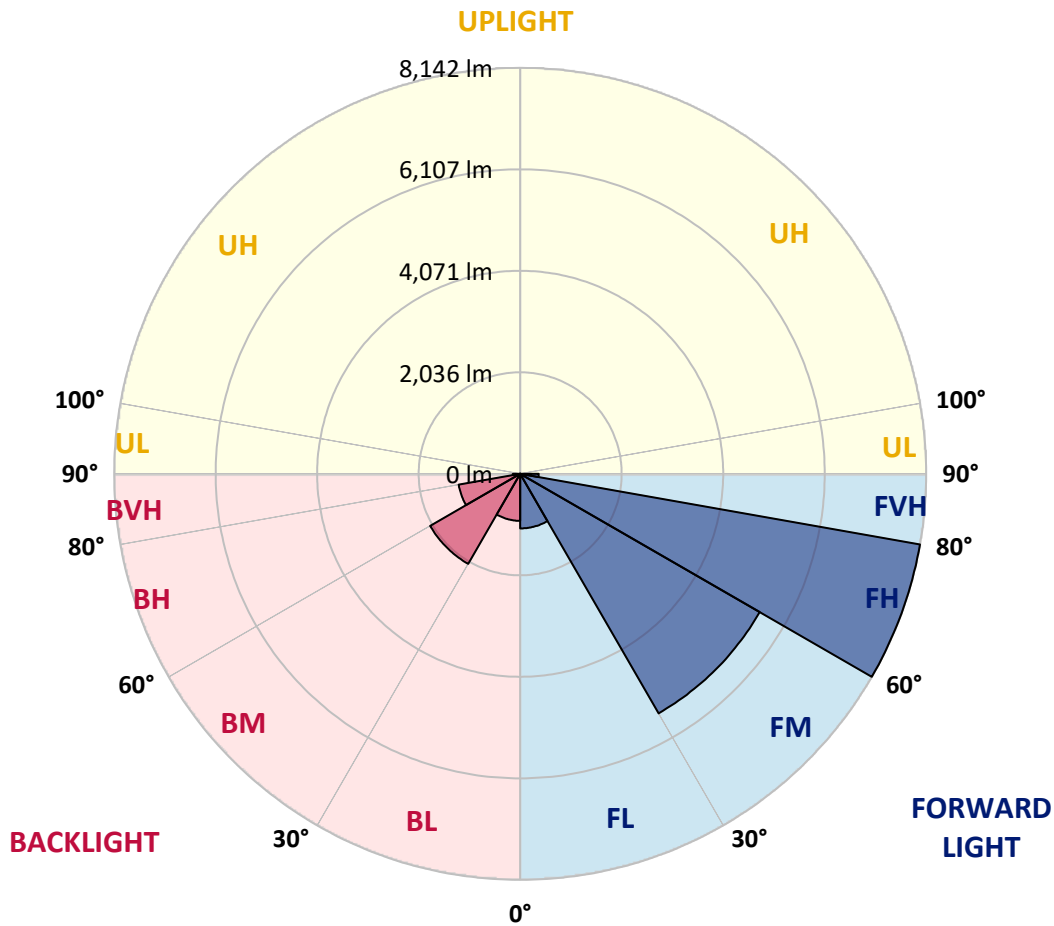


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.3	5.6			
FM (30°-60°)	5547.8	28.3			
FH (60°-80°)	8142.5	41.6			G4/12000
FVH (80°-90°)	372.8	1.9			G3/500
BL (0°-30°)	942.7	4.8	B2/1000		
BM (30°-60°)	2084.8	10.6	B2/2500		
BH (60°-80°)	1253.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	146.8	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°	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8
2.5°	2053.2	2066.6	2054.3	2042.9	2037.8	2024.3	2023.3	2015.1	2009.9	1995.4
5°	2196.6	2214.2	2193.6	2170.9	2150.2	2117.2	2113.1	2089.3	2062.5	2031.6
7.5°	2358.6	2374.1	2350.4	2316.3	2280.2	2225.5	2224.5	2181.2	2138.9	2086.2
10°	2500.0	2520.6	2488.6	2442.2	2396.8	2334.9	2327.7	2278.2	2224.5	2156.4
12.5°	2624.8	2639.3	2608.3	2551.6	2499.0	2437.0	2427.8	2373.1	2313.2	2235.9
15°	2723.9	2742.5	2701.2	2640.3	2584.6	2523.7	2515.5	2465.9	2406.1	2324.6
17.5°	2788.9	2804.4	2762.1	2694.0	2640.3	2589.8	2583.6	2542.3	2489.7	2407.1
20°	2813.6	2830.2	2785.8	2716.7	2667.1	2627.9	2624.8	2594.9	2558.8	2483.5
22.5°	2838.4	2853.9	2796.1	2723.9	2680.5	2655.8	2654.8	2635.1	2620.7	2558.8
25°	2938.5	2942.6	2865.2	2761.0	2699.1	2677.5	2676.4	2675.4	2681.6	2633.1
27.5°	3025.2	3024.1	2958.1	2860.1	2764.1	2718.7	2717.7	2728.0	2747.6	2707.4
30°	3152.1	3140.7	3062.3	2960.2	2872.5	2802.3	2796.1	2786.8	2802.3	2770.3
32.5°	3421.4	3385.2	3258.3	3076.7	2962.2	2908.6	2900.3	2842.5	2848.7	2829.1
35°	3807.2	3759.8	3590.6	3297.5	3073.7	2997.3	2993.2	2919.9	2907.5	2890.0
37.5°	4266.4	4207.6	4010.5	3617.4	3265.6	3100.5	3094.3	3028.3	2977.7	2959.1
40°	4727.6	4653.3	4490.3	4007.4	3548.3	3272.8	3253.2	3153.1	3095.3	3064.4
42.5°	5175.4	5113.5	4974.2	4444.9	3897.0	3524.5	3481.2	3309.9	3266.6	3237.7
45°	5571.6	5515.9	5413.7	4912.3	4305.6	3867.1	3824.8	3545.2	3531.8	3531.8
47.5°	5893.5	5881.1	5772.8	5389.0	4787.4	4257.1	4183.8	3872.2	3908.4	3964.1
50°	6250.5	6216.4	6100.9	5858.4	5353.9	4703.9	4644.0	4273.6	4408.8	4561.5
52.5°	6578.6	6597.2	6468.2	6347.5	5993.6	5202.2	5097.0	4747.2	5039.2	5292.0
55°	6916.0	6917.0	6880.9	6864.4	6664.2	5753.2	5637.6	5316.7	5781.0	6094.7
57.5°	7232.7	7234.8	7288.4	7433.9	7442.2	6388.7	6257.7	6016.3	6605.4	6925.3
60°	7515.4	7529.9	7676.4	8016.9	8126.2	7117.2	6993.4	6842.7	7457.7	7779.6
62.5°	7610.4	7663.0	7989.0	8472.9	8802.1	8010.7	7888.9	7799.2	8353.2	8652.5
65°	7449.4	7570.1	8200.5	8849.5	9497.5	9072.4	8951.7	8853.6	9283.9	9565.6
67.5°	7054.2	7210.0	8188.2	9244.7	10341.5	10349.7	10237.3	10007.2	10281.6	10390.0
70°	6013.2	6246.4	7466.9	9392.2	11310.3	12096.5	11988.2	11395.9	11277.3	10753.1
72.5°	3874.3	4188.0	5498.3	8177.8	11525.9	13740.1	13733.9	12649.5	11592.0	10047.4
75°	1413.5	1605.4	2554.7	5133.1	9674.9	13656.6	13696.8	12434.9	10581.9	7761.0
77.5°	514.9	563.3	833.7	1972.8	5950.2	10957.4	11041.0	9941.1	7531.9	3894.9
80°	270.3	297.2	427.2	765.6	2549.5	6507.4	6638.4	5907.9	3540.0	1173.1
82.5°	149.6	162.0	239.4	415.8	1148.4	2782.7	2861.1	2333.9	1245.4	497.3
85°	80.5	85.6	112.5	227.0	561.3	964.7	986.4	697.5	496.3	292.0
87.5°	23.7	28.9	37.1	72.2	219.8	216.7	221.8	138.3	196.0	147.5
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°
1975.8	0°	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8
1991.3	2.5°	1985.1	1982.0	1970.7	1965.5	1959.3	1958.3	1963.5	1964.5	1965.5	1966.6
2014.0	5°	2003.7	1993.4	1983.1	1976.9	1978.9	1980.0	1990.3	1997.5	2002.7	2006.8
2056.3	7.5°	2039.8	2031.6	2014.0	2013.0	2016.1	2025.4	2038.8	2055.3	2064.6	2071.8
2111.0	10°	2093.5	2078.0	2057.4	2060.5	2066.6	2080.1	2107.9	2121.3	2136.8	2150.2
2178.1	12.5°	2148.2	2134.7	2111.0	2113.1	2123.4	2147.1	2173.9	2190.5	2200.8	2211.1
2250.3	15°	2219.3	2195.6	2169.8	2169.8	2188.4	2214.2	2226.6	2240.0	2246.2	2257.5
2327.7	17.5°	2292.6	2261.6	2227.6	2225.5	2248.2	2260.6	2267.8	2269.9	2272.0	2284.3
2403.0	20°	2365.9	2331.8	2283.3	2279.2	2284.3	2282.3	2281.3	2279.2	2282.3	2297.8
2480.4	22.5°	2438.1	2398.9	2331.8	2313.2	2298.8	2279.2	2278.2	2277.1	2279.2	2294.7
2564.0	25°	2522.7	2475.2	2385.5	2329.7	2281.3	2254.4	2257.5	2258.6	2260.6	2273.0
2650.6	27.5°	2614.5	2561.9	2435.0	2324.6	2236.9	2218.3	2213.2	2216.2	2223.5	2243.1
2737.3	30°	2706.3	2644.4	2480.4	2304.0	2181.2	2155.4	2138.9	2146.1	2168.8	2188.4
2812.6	32.5°	2789.9	2728.0	2516.5	2258.6	2110.0	2069.7	2048.1	2057.4	2080.1	2087.3
2896.2	35°	2887.9	2817.8	2532.0	2186.3	2032.6	1970.7	1941.8	1928.4	1939.7	1932.5
2994.2	37.5°	2997.3	2924.0	2529.9	2091.4	1941.8	1870.6	1830.4	1779.8	1756.1	1731.3
3138.7	40°	3159.3	3054.0	2505.1	1976.9	1829.3	1764.3	1692.1	1606.5	1552.8	1504.3
3371.8	42.5°	3380.1	3234.6	2459.7	1851.0	1702.4	1641.6	1543.5	1443.5	1358.8	1278.4
3725.7	45°	3709.2	3470.9	2403.0	1716.9	1565.2	1505.4	1399.1	1286.6	1190.7	1087.5
4228.2	47.5°	4183.8	3788.7	2349.3	1564.2	1420.8	1366.1	1270.1	1165.9	1052.4	952.3
4954.6	50°	4835.9	4244.7	2299.8	1415.6	1278.4	1237.1	1160.7	1054.5	939.9	859.5
5805.8	52.5°	5665.5	4864.8	2279.2	1272.2	1145.3	1129.8	1068.9	969.9	861.5	793.4
6798.4	55°	6617.8	5606.7	2279.2	1135.0	1028.7	1033.8	991.5	899.7	805.8	744.9
7821.9	57.5°	7589.7	6357.8	2237.9	1008.0	929.6	951.3	924.5	844.0	759.4	696.4
8898.0	60°	8485.3	6987.2	2070.8	892.5	841.9	876.0	858.4	789.3	686.1	633.5
9797.7	62.5°	9173.5	7342.1	1748.9	800.7	769.7	808.9	799.6	717.1	672.7	651.0
10536.5	65°	9518.1	7284.3	1337.2	719.1	708.8	769.7	750.1	747.0	711.9	687.2
10776.9	67.5°	9306.6	6787.0	969.9	659.3	673.7	733.6	808.9	821.3	756.3	707.8
10100.0	70°	8379.0	5887.3	722.2	602.6	629.4	734.6	922.4	859.5	741.8	685.1
8100.5	72.5°	6374.3	4390.2	560.3	542.7	571.6	739.8	973.0	841.9	700.6	757.3
5046.4	75°	3645.3	2410.2	449.9	469.5	499.4	691.3	947.2	796.5	668.6	695.4
1999.6	77.5°	1389.8	926.5	371.4	397.2	401.4	603.6	905.9	793.4	636.6	621.1
599.5	80°	481.8	362.2	307.5	315.7	310.6	536.5	868.8	690.3	521.0	466.4
247.6	82.5°	197.1	180.6	243.5	233.2	220.8	416.8	701.6	564.4	426.1	376.6
119.7	85°	85.6	114.5	161.0	141.4	127.9	288.9	562.3	477.7	360.1	310.6
39.2	87.5°	17.5	43.3	68.1	64.0	66.0	192.9	399.3	339.5	254.8	190.9
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>
1975.8
1970.7
2008.9
2073.9
2147.1
2215.2
2261.6
2288.5
2304.0
2305.0
2289.5
2262.7
2210.1
2113.1
1955.2
1746.8
1507.4
1271.1
1075.1
941.0
854.3
788.3
738.7
686.1
625.3
643.8
678.9
699.5
675.8
751.1
695.4
566.4
450.9
372.5
309.5
149.6
0.0

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