

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: P949361

Luminaire Tested: **GALN-SB4A-850-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-850-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

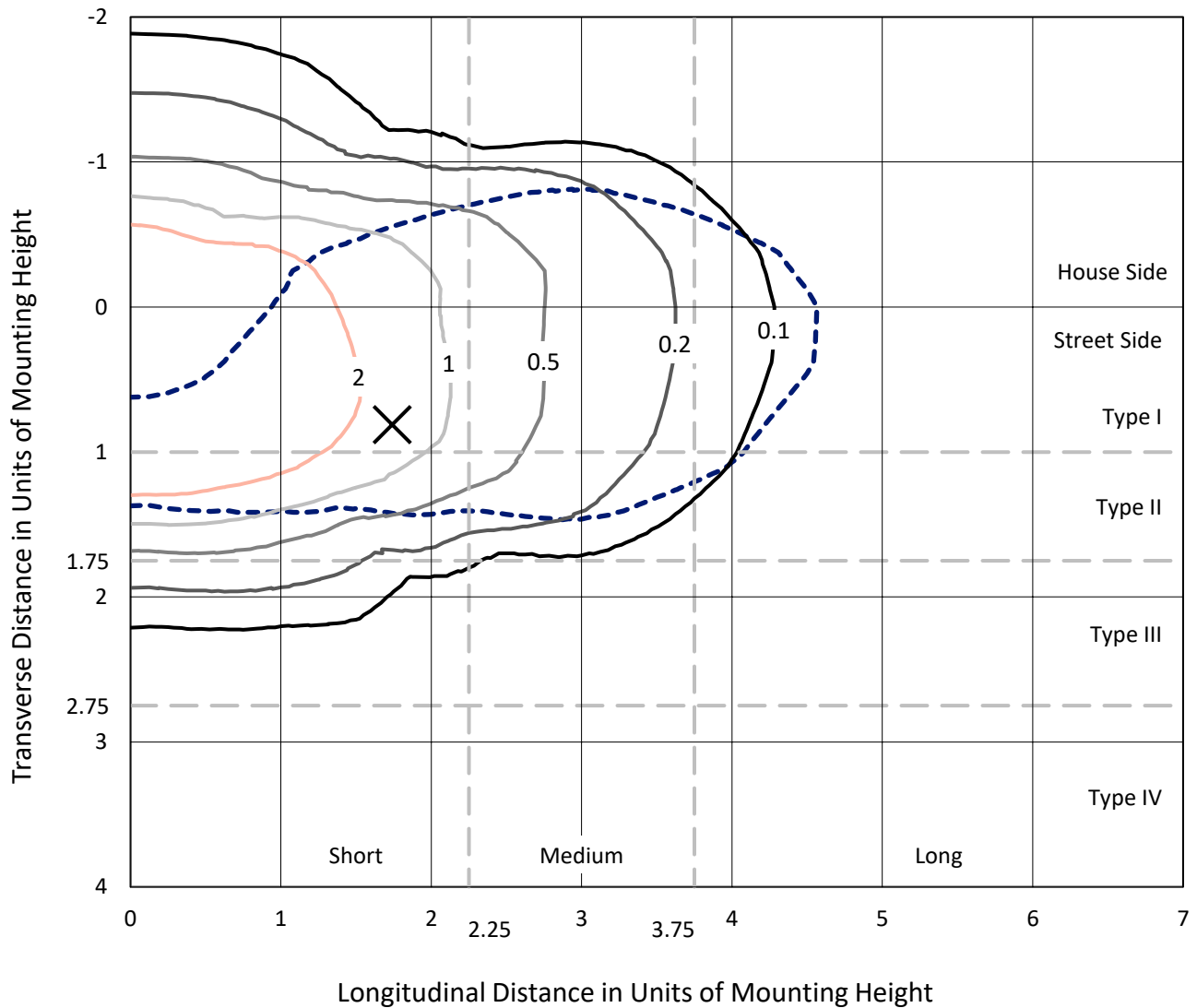
Lumens per Lamp: N/A  
Luminaire Lumens: 17427 lumens  
Efficiency: N/A  
Efficacy: 152.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

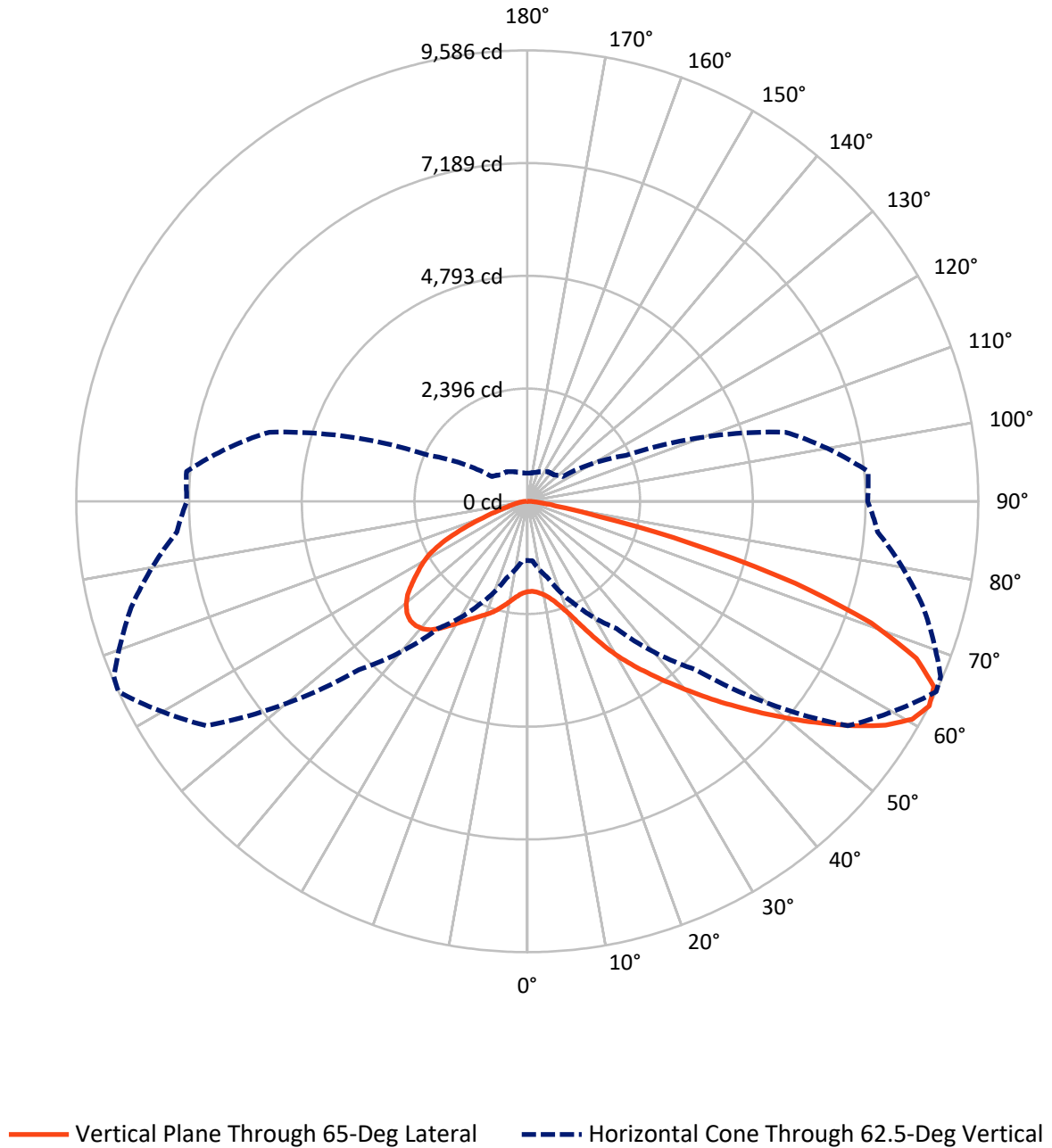
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - 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	5499.2	0.0	5499.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	11927.8	0.0	11927.8
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	17427.0	0.0	17427.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.5	1.1
10°-20°	649.3	3.7
20°-30°	1316.4	7.6
30°-40°	2278.1	13.1
40°-50°	3447.4	19.8
50°-60°	4041.9	23.2
60°-70°	3388.6	19.4
70°-80°	1870.8	10.7
80°-90°	243.0	1.4
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°	17427.0	100.0
0°-180°	17427.0	100.0



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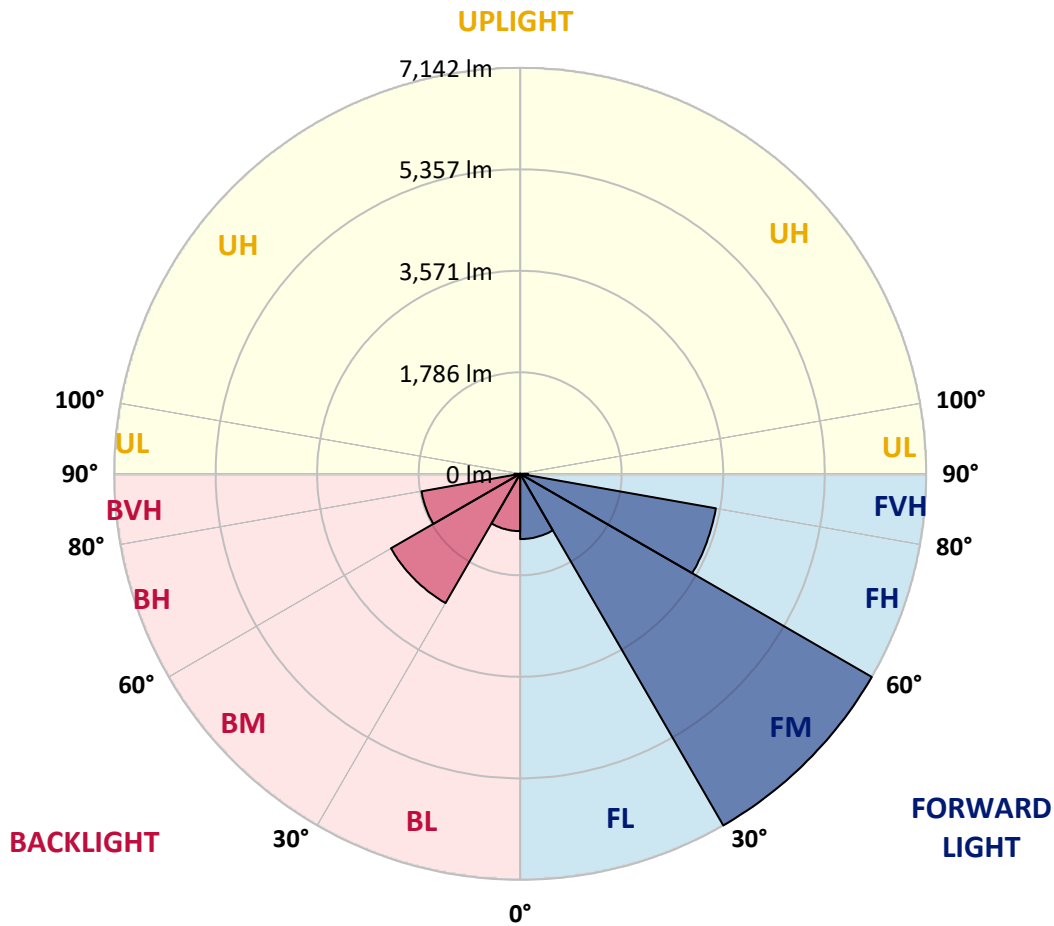
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.7	6.6			
FM (30°-60°)	7142.2	41.0			
FH (60°-80°)	3495.3	20.1			G2/5000
FVH (80°-90°)	141.6	0.8			G2/225
BL (0°-30°)	1008.5	5.8	B3/2500		
BM (30°-60°)	2625.2	15.1	B3/5000		
BH (60°-80°)	1764.1	10.1	B3/2500		G3/2500
BVH (80°-90°)	101.4	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4
2.5°	1907.7	1902.3	1906.8	1906.8	1908.6	1907.7	1914.1	1915.9	1918.6	1924.0
5°	1888.7	1887.8	1896.0	1903.2	1910.4	1916.8	1924.9	1936.7	1938.5	1944.8
7.5°	1882.4	1877.0	1889.6	1898.7	1915.9	1931.2	1952.9	1972.8	1981.0	1983.7
10°	1931.2	1922.2	1933.9	1939.4	1953.8	1969.2	1994.5	2026.2	2035.2	2046.1
12.5°	2014.4	2004.5	2021.6	2029.8	2043.3	2056.9	2074.1	2104.8	2109.3	2129.2
15°	2128.3	2116.6	2127.4	2137.4	2160.0	2172.6	2189.8	2219.6	2219.6	2235.0
17.5°	2282.9	2267.6	2275.7	2279.3	2293.8	2312.8	2341.7	2367.9	2381.5	2376.1
20°	2513.5	2494.5	2494.5	2476.4	2471.0	2486.4	2524.3	2560.5	2575.0	2546.9
22.5°	2859.8	2832.7	2817.3	2755.8	2731.4	2733.2	2771.2	2815.5	2827.2	2777.5
25°	3300.1	3257.6	3236.8	3146.4	3091.2	3043.3	3073.2	3130.1	3146.4	3084.9
27.5°	3740.4	3743.1	3723.2	3614.7	3523.4	3435.7	3420.3	3480.0	3497.2	3427.6
30°	4357.9	4293.7	4255.8	4125.6	3995.4	3872.4	3809.1	3833.5	3838.0	3754.9
32.5°	4890.5	4874.2	4792.8	4678.9	4511.6	4319.0	4213.3	4174.4	4167.2	4048.7
35°	5497.1	5488.1	5402.2	5266.6	5085.8	4818.1	4627.4	4516.1	4507.1	4340.7
37.5°	6113.8	6113.8	6029.7	5881.4	5694.2	5359.7	5069.5	4893.2	4864.2	4647.2
40°	6605.6	6575.8	6591.1	6528.7	6314.5	5959.1	5560.4	5304.6	5265.7	5005.3
42.5°	6885.0	6875.0	6967.3	7036.9	6949.2	6665.3	6101.1	5750.3	5696.0	5399.5
45°	6947.4	6936.5	7101.1	7356.0	7479.0	7362.4	6688.8	6219.5	6153.5	5811.8
47.5°	6803.6	6781.9	7023.3	7425.6	7819.9	8025.1	7325.3	6728.6	6632.7	6213.2
50°	6371.4	6350.6	6715.9	7250.2	7934.7	8475.3	8016.0	7268.3	7121.9	6643.6
52.5°	5432.0	5442.0	6014.3	6748.5	7783.7	8755.6	8611.0	7837.0	7660.7	7083.9
55°	4231.3	4253.0	4956.5	5764.8	7179.7	8713.1	9016.9	8422.9	8247.5	7498.0
57.5°	3029.8	3125.6	3784.7	4584.9	6019.7	8039.6	9105.5	8979.9	8809.9	7950.0
60°	1963.8	1981.0	2659.1	3465.5	4584.0	6842.5	8925.6	9402.1	9269.2	8411.2
62.5°	1258.6	1270.3	1683.5	2424.0	3299.2	5062.2	8319.8	9585.6	9544.9	8715.8
65°	924.9	915.9	1131.1	1602.1	2222.4	3122.0	7143.6	9497.0	9577.5	8906.6
67.5°	772.1	759.5	865.3	1109.4	1637.4	1773.0	5285.6	8921.1	9215.8	8884.9
70°	703.4	692.6	756.8	823.7	1277.5	1187.1	2664.5	7755.7	8209.5	8638.1
72.5°	595.8	576.8	664.5	731.4	993.6	910.5	1101.2	5957.3	6510.7	7847.0
75°	462.0	449.4	524.4	643.7	746.8	710.6	696.2	3617.4	4221.4	6068.5
77.5°	366.2	349.0	417.7	501.8	671.8	536.2	507.2	1557.8	2156.4	3874.2
80°	275.8	260.4	317.4	396.9	516.3	404.1	328.2	635.6	812.8	1962.9
82.5°	196.2	182.6	221.5	291.1	347.2	362.6	201.6	356.2	400.5	756.8
85°	125.7	117.5	148.3	182.6	220.6	233.3	123.0	186.3	204.3	311.9
87.5°	68.7	56.1	79.6	85.0	102.2	93.1	58.8	67.8	73.2	113.0
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°
1920.4	0°	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4	1920.4
1924.0	2.5°	1927.6	1930.3	1939.4	1942.1	1948.4	1956.5	1962.0	1967.4	1967.4	1972.8
1952.9	5°	1953.8	1960.2	1979.1	1989.1	2005.4	2021.6	2031.6	2043.3	2050.6	2054.2
1999.0	7.5°	2004.5	2014.4	2041.5	2058.7	2086.7	2109.3	2124.7	2141.0	2144.6	2154.6
2063.2	10°	2073.2	2084.9	2115.7	2148.2	2181.7	2209.7	2224.2	2235.9	2240.4	2242.3
2145.5	12.5°	2151.8	2169.0	2208.8	2248.6	2283.8	2308.3	2311.9	2309.2	2296.5	2285.6
2246.8	15°	2248.6	2264.0	2308.3	2351.7	2386.0	2390.5	2367.9	2353.5	2338.1	2335.4
2359.8	17.5°	2364.3	2372.4	2413.1	2455.6	2458.3	2443.0	2409.5	2396.0	2381.5	2371.5
2507.2	20°	2499.0	2496.3	2525.2	2543.3	2524.3	2477.3	2426.7	2404.1	2389.6	2377.9
2688.0	22.5°	2660.0	2639.2	2635.5	2631.0	2580.4	2481.8	2413.1	2384.2	2361.6	2345.3
2940.2	25°	2894.1	2814.6	2759.4	2728.7	2614.8	2457.4	2369.7	2305.5	2263.0	2235.0
3248.6	27.5°	3187.1	3053.3	2914.0	2839.0	2614.8	2407.7	2264.9	2160.9	2091.3	2062.3
3546.9	30°	3466.4	3326.3	3121.1	2971.9	2608.4	2326.3	2095.8	1951.1	1869.7	1840.8
3801.9	32.5°	3705.1	3552.3	3340.8	3117.5	2593.1	2194.3	1886.0	1726.0	1647.3	1613.0
4054.1	35°	3926.7	3763.9	3561.4	3277.5	2552.4	2000.8	1655.5	1533.4	1445.7	1390.6
4310.9	37.5°	4153.6	3960.1	3770.2	3422.1	2479.1	1774.8	1478.3	1374.3	1271.2	1197.1
4584.0	40°	4400.4	4169.0	3993.6	3508.0	2358.9	1559.6	1340.8	1245.9	1136.5	1057.8
4898.6	42.5°	4688.8	4419.4	4242.2	3552.3	2194.3	1406.8	1251.3	1158.2	1055.1	990.9
5235.8	45°	4989.9	4695.2	4469.1	3551.4	2010.8	1335.4	1222.4	1130.2	1016.2	949.3
5582.1	47.5°	5305.5	4983.6	4665.3	3493.6	1851.7	1345.4	1206.1	1069.6	943.9	878.8
5932.0	50°	5621.9	5299.1	4855.2	3385.1	1783.9	1323.7	1145.5	984.6	836.3	777.6
6260.2	52.5°	5935.6	5634.6	5018.8	3230.5	1715.1	1243.2	1067.8	874.3	792.0	751.3
6599.3	55°	6251.2	5966.4	5197.0	3005.3	1543.4	1149.2	937.6	832.7	756.8	719.7
6931.1	57.5°	6567.6	6349.7	5366.0	2780.2	1327.3	1033.4	866.2	782.1	721.5	689.9
7208.7	60°	6896.7	6788.2	5540.5	2573.2	1113.9	885.1	813.7	741.4	679.9	644.6
7475.4	62.5°	7235.8	7271.0	5677.1	2306.4	917.7	794.7	766.7	692.6	632.9	599.4
7696.0	65°	7577.5	7736.7	5766.6	1936.7	744.1	708.8	716.1	639.2	578.6	549.7
7857.8	67.5°	7835.2	8072.1	5741.2	1465.6	610.3	627.5	652.8	583.2	526.2	503.6
7831.6	70°	7864.2	8032.3	5491.7	1003.6	510.8	547.9	582.3	528.0	469.2	453.0
7462.7	72.5°	7479.0	7489.8	4796.4	655.5	432.2	481.0	508.1	472.0	415.0	398.7
6528.7	75°	6469.1	6194.2	3521.6	432.2	361.7	413.2	438.5	413.2	358.0	361.7
4885.0	77.5°	4901.3	4386.9	2138.3	307.4	302.0	347.2	381.5	363.5	316.4	355.3
2456.5	80°	2525.2	2373.4	953.9	229.6	238.7	277.6	313.7	290.2	250.4	238.7
548.8	82.5°	578.6	672.7	376.1	164.6	172.7	199.8	239.6	217.9	179.9	151.9
228.7	85°	202.5	221.5	166.4	103.1	101.3	124.8	162.7	145.6	122.1	97.6
96.7	87.5°	64.2	84.1	62.4	41.6	43.4	56.1	75.0	68.7	57.0	37.1
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>
1920.4
1972.8
2056.0
2150.9
2237.7
2285.6
2335.4
2372.4
2378.8
2350.7
2245.9
2076.8
1858.0
1630.2
1408.6
1217.0
1073.2
1003.6
960.2
887.9
781.2
751.3
716.1
684.4
641.9
598.5
548.8
504.5
453.9
397.8
349.0
312.8
217.9
150.1
103.1
38.9
0.0

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