

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: P953754

Luminaire Tested: **GALN-SB7A-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953754
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-SB7A-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22149 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

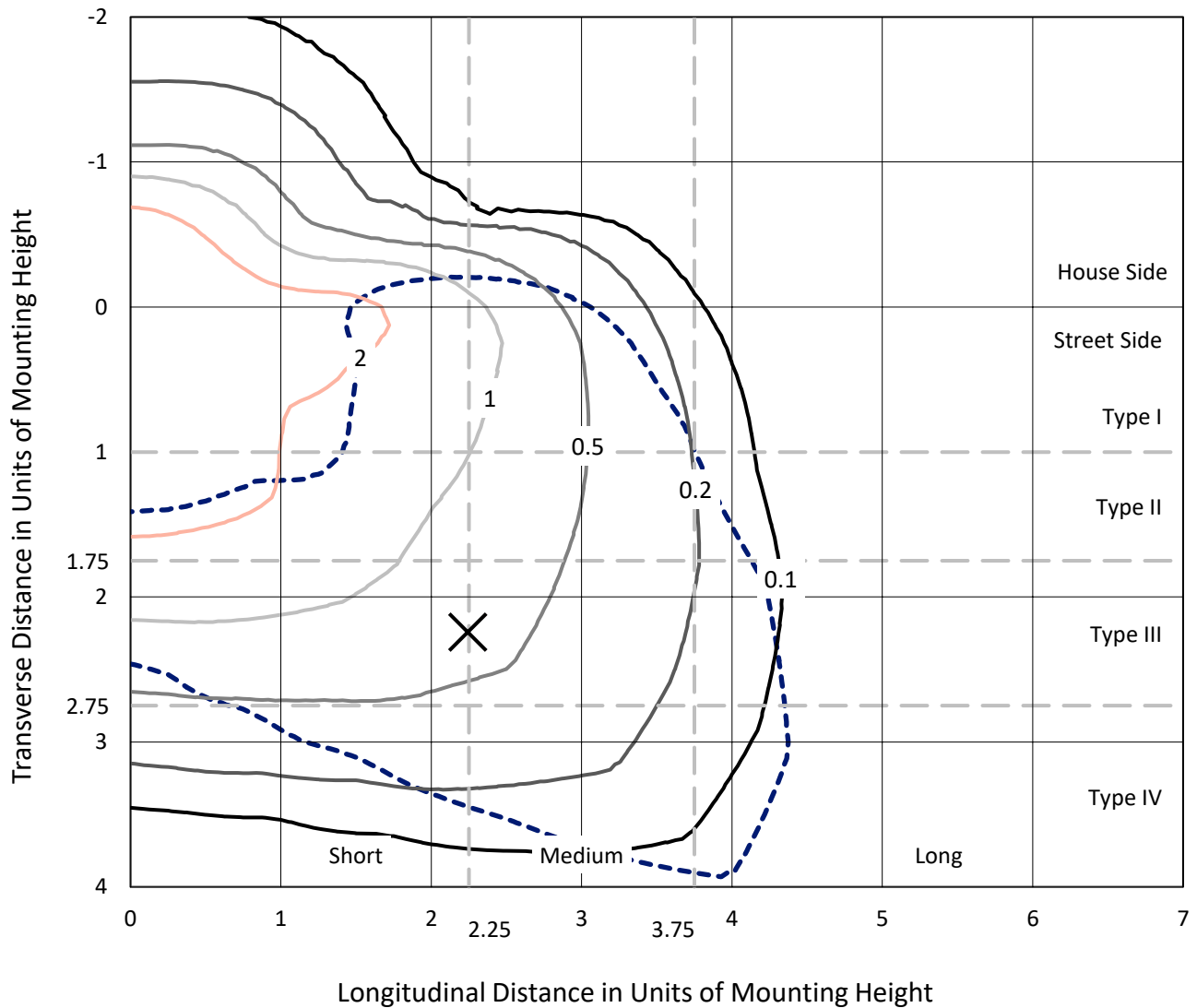
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

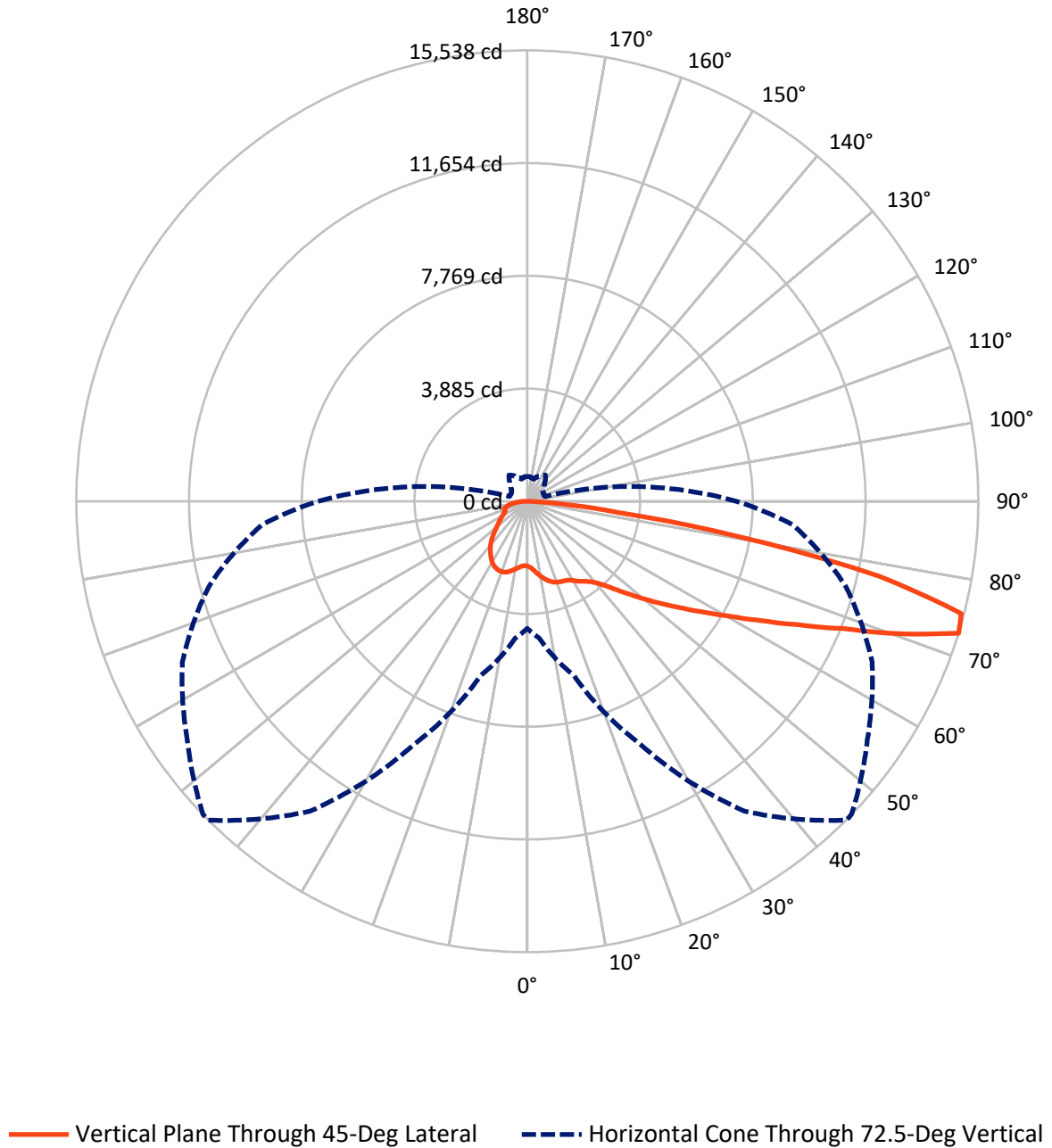
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5007.1	0.0	5007.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17141.9	0.0	17141.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	22149.0	0.0	22149.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.0
10°-20°	758.2	3.4
20°-30°	1319.0	6.0
30°-40°	1890.9	8.5
40°-50°	2662.4	12.0
50°-60°	4078.1	18.4
60°-70°	5907.7	26.7
70°-80°	4717.7	21.3
80°-90°	587.6	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°	22149.0	100.0
0°-180°	22149.0	100.0



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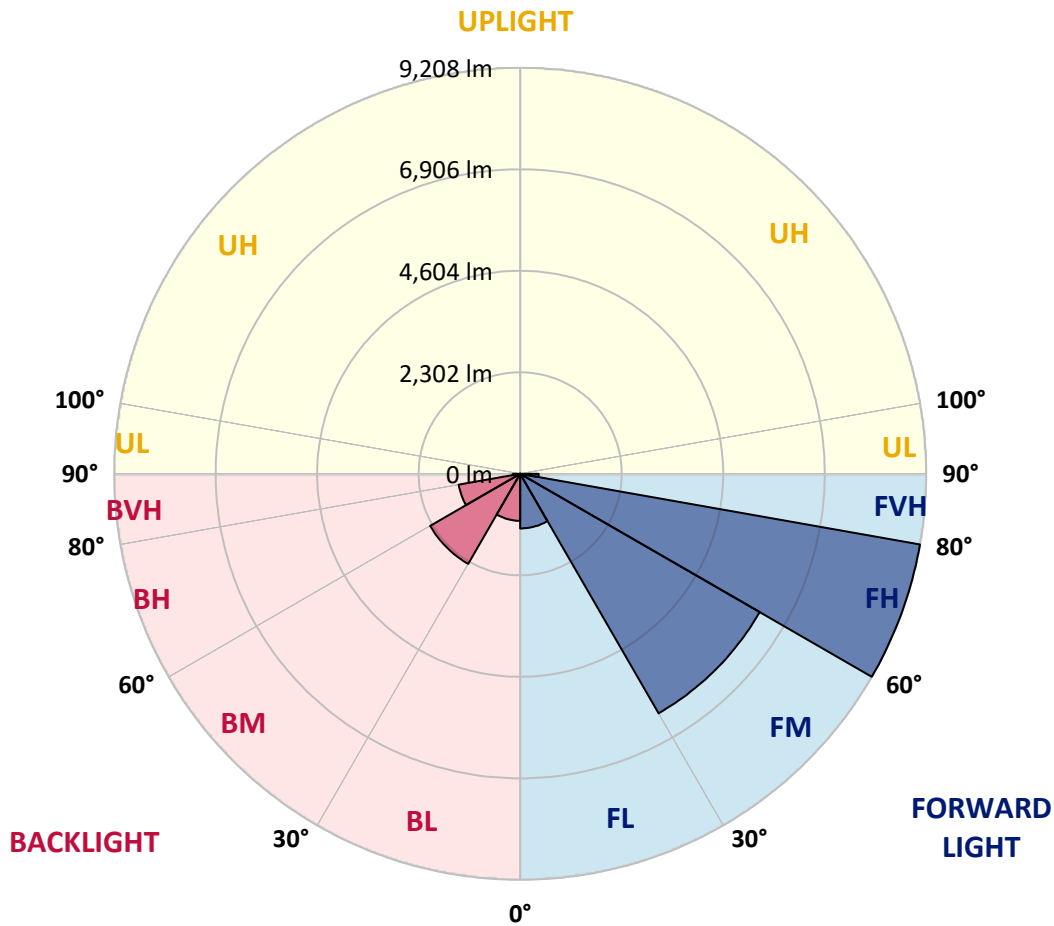
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.6	5.6			
FM (30°-60°)	6273.8	28.3			
FH (60°-80°)	9208.0	41.6			G4/12000
FVH (80°-90°)	421.5	1.9			G3/500
BL (0°-30°)	1066.1	4.8	B3/2500		
BM (30°-60°)	2357.6	10.6	B2/2500		
BH (60°-80°)	1417.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	166.0	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°	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4
2.5°	2321.9	2337.1	2323.1	2310.2	2304.4	2289.2	2288.1	2278.7	2272.9	2256.6
5°	2484.1	2503.9	2480.6	2454.9	2431.6	2394.3	2389.6	2362.7	2332.4	2297.4
7.5°	2667.3	2684.8	2657.9	2619.4	2578.6	2516.8	2515.6	2466.6	2418.8	2359.2
10°	2827.1	2850.5	2814.3	2761.8	2710.5	2640.4	2632.3	2576.3	2515.6	2438.6
12.5°	2968.3	2984.6	2949.6	2885.5	2826.0	2756.0	2745.5	2683.6	2615.9	2528.4
15°	3080.3	3101.3	3054.7	2985.8	2922.8	2854.0	2844.6	2788.6	2721.0	2628.8
17.5°	3153.8	3171.3	3123.5	3046.5	2985.8	2928.6	2921.6	2875.0	2815.5	2722.1
20°	3181.8	3200.5	3150.3	3072.2	3016.2	2971.8	2968.3	2934.5	2893.6	2808.5
22.5°	3209.8	3227.3	3162.0	3080.3	3031.3	3003.3	3002.2	2980.0	2963.6	2893.6
25°	3323.0	3327.7	3240.2	3122.3	3052.3	3027.8	3026.7	3025.5	3032.5	2977.6
27.5°	3421.0	3419.9	3345.2	3234.3	3125.8	3074.5	3073.3	3085.0	3107.2	3061.7
30°	3564.5	3551.7	3463.0	3347.5	3248.3	3169.0	3162.0	3151.5	3169.0	3132.8
32.5°	3869.1	3828.2	3684.7	3479.4	3349.9	3289.2	3279.8	3214.5	3221.5	3199.3
35°	4305.5	4251.8	4060.4	3729.1	3475.9	3389.5	3384.9	3302.0	3288.0	3268.2
37.5°	4824.7	4758.2	4535.3	4090.8	3692.9	3506.2	3499.2	3424.5	3367.4	3346.4
40°	5346.2	5262.2	5077.9	4531.8	4012.6	3701.1	3678.9	3565.7	3500.4	3465.4
42.5°	5852.6	5782.6	5625.1	5026.5	4407.0	3985.8	3936.7	3743.1	3694.1	3661.4
45°	6300.7	6237.7	6122.1	5555.1	4869.0	4373.1	4325.3	4009.1	3993.9	3993.9
47.5°	6664.7	6650.7	6528.2	6094.1	5413.9	4814.2	4731.3	4379.0	4419.8	4482.8
50°	7068.4	7029.9	6899.2	6625.0	6054.5	5319.4	5251.7	4832.8	4985.7	5158.4
52.5°	7439.5	7460.5	7314.6	7178.1	6777.9	5883.0	5763.9	5368.4	5698.6	5984.5
55°	7821.0	7822.2	7781.3	7762.7	7536.3	6506.0	6375.3	6012.5	6537.5	6892.2
57.5°	8179.2	8181.5	8242.2	8406.7	8416.1	7224.8	7076.6	6803.6	7469.8	7831.5
60°	8498.9	8515.2	8680.9	9066.0	9189.6	8048.5	7908.5	7738.2	8433.6	8797.6
62.5°	8606.2	8665.7	9034.5	9581.7	9953.9	9059.0	8921.3	8819.8	9446.3	9784.7
65°	8424.2	8560.7	9273.6	10007.6	10740.3	10259.6	10123.1	10012.2	10498.8	10817.3
67.5°	7977.3	8153.5	9259.6	10454.4	11694.7	11704.1	11576.9	11316.7	11627.1	11749.6
70°	6800.1	7063.7	8444.1	10621.3	12790.4	13679.4	13556.9	12887.2	12753.0	12160.3
72.5°	4381.3	4736.0	6217.8	9248.0	13034.2	15538.1	15531.1	14304.8	13108.9	11362.2
75°	1598.5	1815.5	2889.0	5804.8	10941.0	15443.6	15489.1	14062.2	11966.6	8776.6
77.5°	582.2	637.1	942.8	2230.9	6728.9	12391.3	12485.8	11242.0	8517.6	4404.6
80°	305.7	336.0	483.1	865.8	2883.1	7358.9	7507.1	6681.0	4003.3	1326.6
82.5°	169.2	183.2	270.7	470.2	1298.6	3146.8	3235.5	2639.3	1408.3	562.4
85°	91.0	96.8	127.2	256.7	634.7	1090.9	1115.5	788.8	561.2	330.2
87.5°	26.8	32.7	42.0	81.7	248.5	245.0	250.9	156.3	221.7	166.9
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°
2234.4	0°	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4
2251.9	2.5°	2244.9	2241.4	2228.6	2222.7	2215.7	2214.6	2220.4	2221.6	2222.7	2223.9
2277.6	5°	2265.9	2254.2	2242.6	2235.6	2237.9	2239.1	2250.7	2258.9	2264.7	2269.4
2325.4	7.5°	2306.7	2297.4	2277.6	2276.4	2279.9	2290.4	2305.6	2324.2	2334.7	2342.9
2387.3	10°	2367.4	2349.9	2326.6	2330.1	2337.1	2352.2	2383.8	2398.9	2416.4	2431.6
2463.1	12.5°	2429.3	2414.1	2387.3	2389.6	2401.3	2428.1	2458.4	2477.1	2488.8	2500.4
2544.8	15°	2509.8	2482.9	2453.8	2453.8	2474.8	2503.9	2517.9	2533.1	2540.1	2552.9
2632.3	17.5°	2592.6	2557.6	2519.1	2516.8	2542.4	2556.4	2564.6	2566.9	2569.3	2583.3
2717.5	20°	2675.4	2636.9	2582.1	2577.4	2583.3	2580.9	2579.8	2577.4	2580.9	2598.4
2805.0	22.5°	2757.1	2712.8	2636.9	2615.9	2599.6	2577.4	2576.3	2575.1	2577.4	2594.9
2899.5	25°	2852.8	2799.1	2697.6	2634.6	2579.8	2549.4	2552.9	2554.1	2556.4	2570.4
2997.5	27.5°	2956.6	2897.1	2753.6	2628.8	2529.6	2508.6	2502.8	2506.3	2514.4	2536.6
3095.5	30°	3060.5	2990.5	2805.0	2605.4	2466.6	2437.4	2418.8	2426.9	2452.6	2474.8
3180.7	32.5°	3155.0	3085.0	2845.8	2554.1	2386.1	2340.6	2316.1	2326.6	2352.2	2360.4
3275.2	35°	3265.8	3186.5	2863.3	2472.4	2298.6	2228.6	2195.9	2180.7	2193.6	2185.4
3386.0	37.5°	3389.5	3306.7	2861.0	2365.1	2195.9	2115.4	2069.9	2012.7	1985.9	1957.9
3549.4	40°	3572.7	3453.7	2833.0	2235.6	2068.7	1995.2	1913.5	1816.7	1756.0	1701.2
3813.1	42.5°	3822.4	3657.9	2781.6	2093.2	1925.2	1856.4	1745.5	1632.3	1536.7	1445.7
4213.3	45°	4194.6	3925.1	2717.5	1941.5	1770.0	1702.3	1582.2	1455.0	1346.5	1229.8
4781.5	47.5°	4731.3	4284.5	2656.8	1768.9	1606.7	1544.8	1436.3	1318.5	1190.1	1076.9
5602.9	50°	5468.7	4800.2	2600.8	1600.8	1445.7	1399.0	1312.6	1192.5	1062.9	971.9
6565.5	52.5°	6406.8	5501.4	2577.4	1438.7	1295.1	1277.6	1208.8	1096.8	974.3	897.3
7688.0	55°	7483.8	6340.3	2577.4	1283.5	1163.3	1169.1	1121.3	1017.4	911.3	842.4
8845.4	57.5°	8582.9	7189.8	2530.8	1140.0	1051.3	1075.8	1045.4	954.4	858.8	787.6
10062.4	60°	9595.7	7901.5	2341.7	1009.3	952.1	990.6	970.8	892.6	775.9	716.4
11079.8	62.5°	10373.9	8302.9	1977.7	905.4	870.4	914.8	904.3	810.9	760.7	736.2
11915.3	65°	10763.6	8237.5	1512.2	813.3	801.6	870.4	848.3	844.8	805.1	777.1
12187.1	67.5°	10524.4	7675.1	1096.8	745.6	761.9	829.6	914.8	928.8	855.3	800.4
11421.7	70°	9475.5	6657.7	816.8	681.4	711.7	830.8	1043.1	971.9	838.9	774.7
9160.5	72.5°	7208.4	4964.7	633.6	613.7	646.4	836.6	1100.3	952.1	792.3	856.4
5706.8	75°	4122.3	2725.6	508.7	530.9	564.7	781.7	1071.1	900.8	756.1	786.4
2261.2	77.5°	1571.7	1047.8	420.0	449.2	453.9	682.6	1024.4	897.3	719.9	702.4
677.9	80°	544.9	409.5	347.7	357.0	351.2	606.7	982.4	780.6	589.2	527.4
280.0	82.5°	222.9	204.2	275.4	263.7	249.7	471.4	793.4	638.2	481.9	425.9
135.3	85°	96.8	129.5	182.0	159.9	144.7	326.7	635.9	540.2	407.2	351.2
44.3	87.5°	19.8	49.0	77.0	72.3	74.7	218.2	451.5	383.9	288.2	215.9
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>
2234.4
2228.6
2271.7
2345.2
2428.1
2505.1
2557.6
2587.9
2605.4
2606.6
2589.1
2558.8
2499.3
2389.6
2211.1
1975.4
1704.7
1437.5
1215.8
1064.1
966.1
891.4
835.4
775.9
707.1
728.1
767.7
791.1
764.2
849.4
786.4
640.6
509.9
421.2
350.0
169.2
0.0

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