

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: P949574

Luminaire Tested: **GALN-SB4B-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18392 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

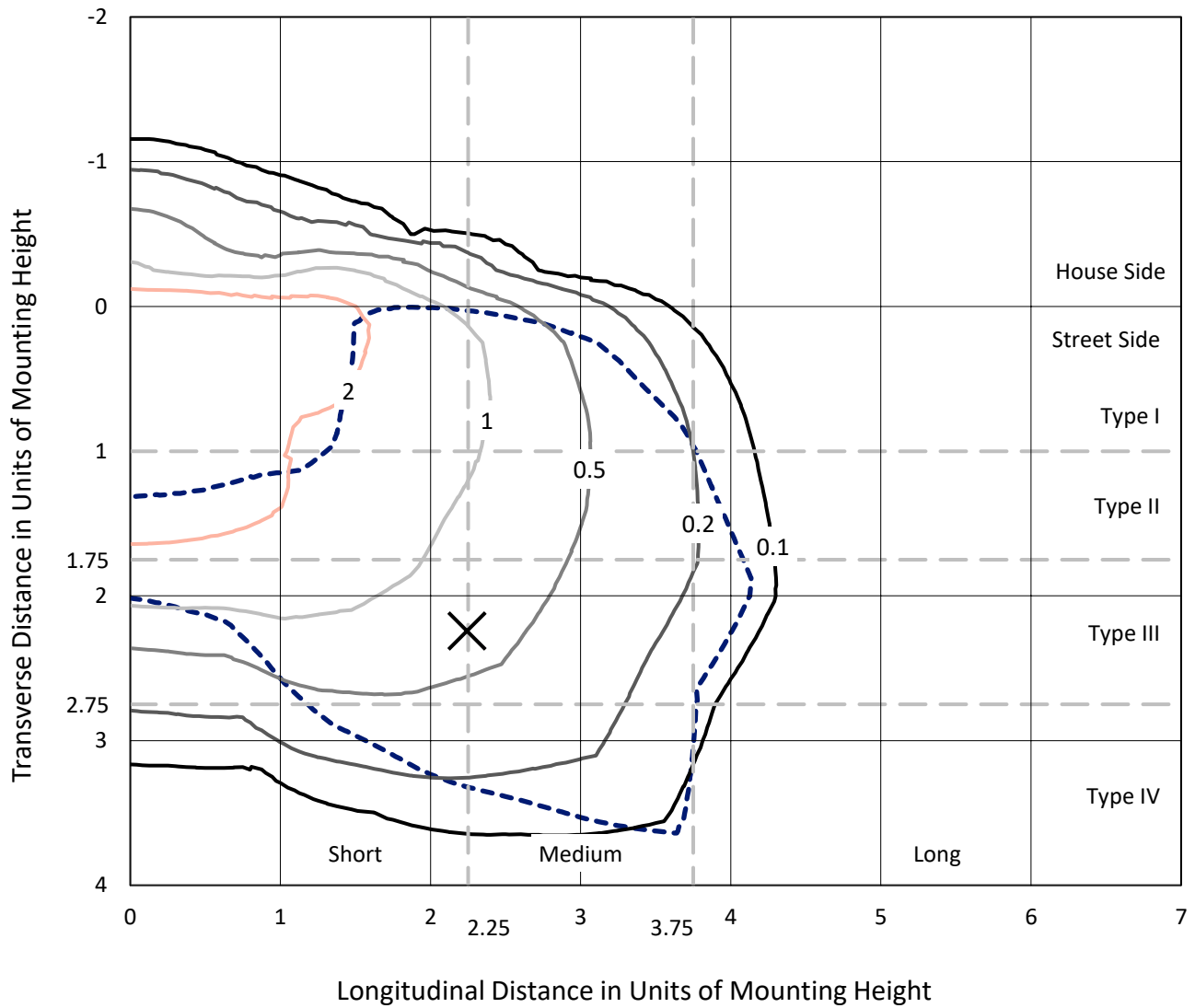
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

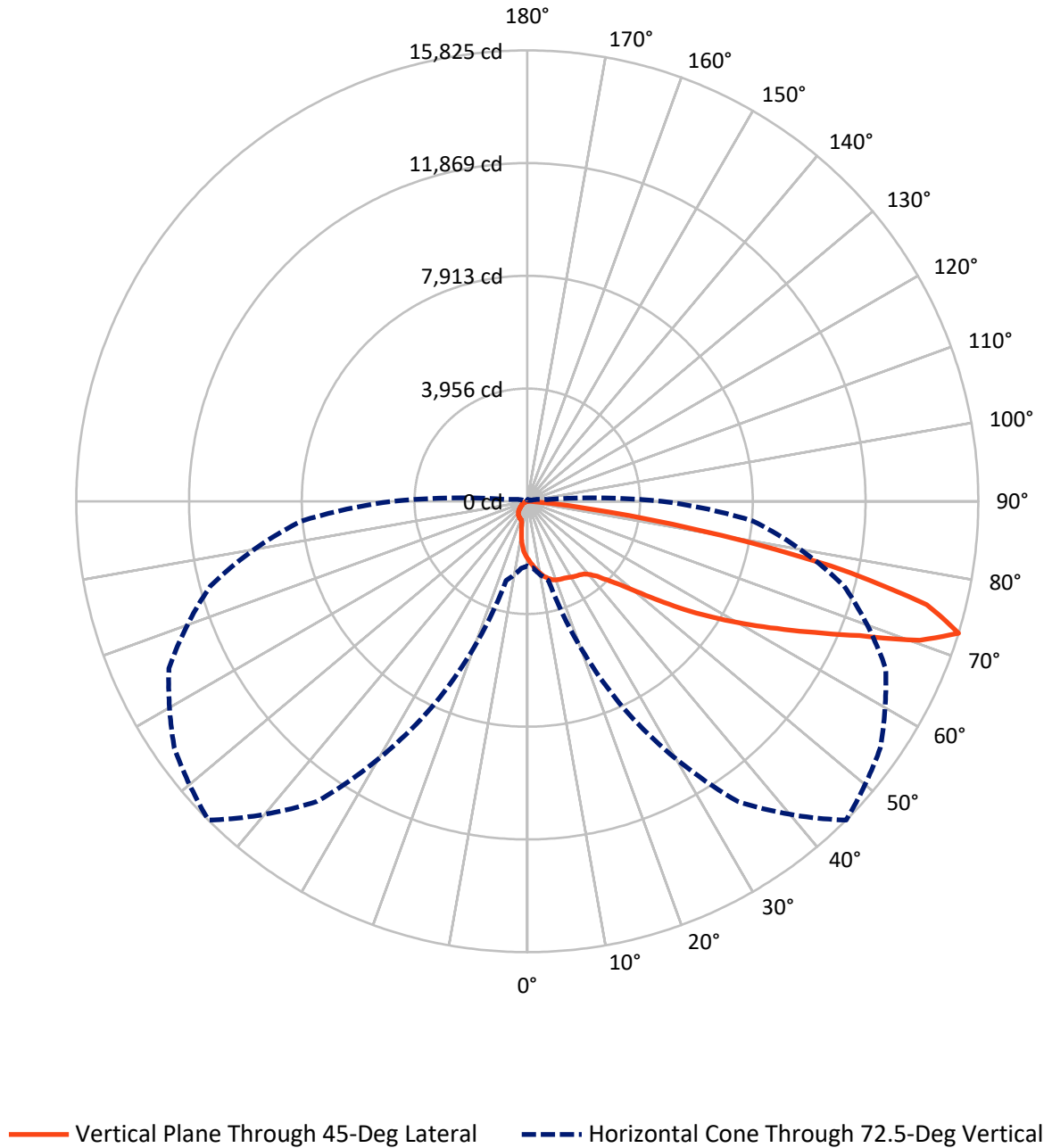
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1932.5	0.0	1932.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16459.5	0.0	16459.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	18392.0	0.0	18392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.8	1.0
10°-20°	554.8	3.0
20°-30°	911.1	5.0
30°-40°	1292.2	7.0
40°-50°	2135.8	11.6
50°-60°	3836.8	20.9
60°-70°	5327.6	29.0
70°-80°	3864.5	21.0
80°-90°	279.4	1.5
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°	18392.0	100.0
0°-180°	18392.0	100.0

Coefficient of Utilization



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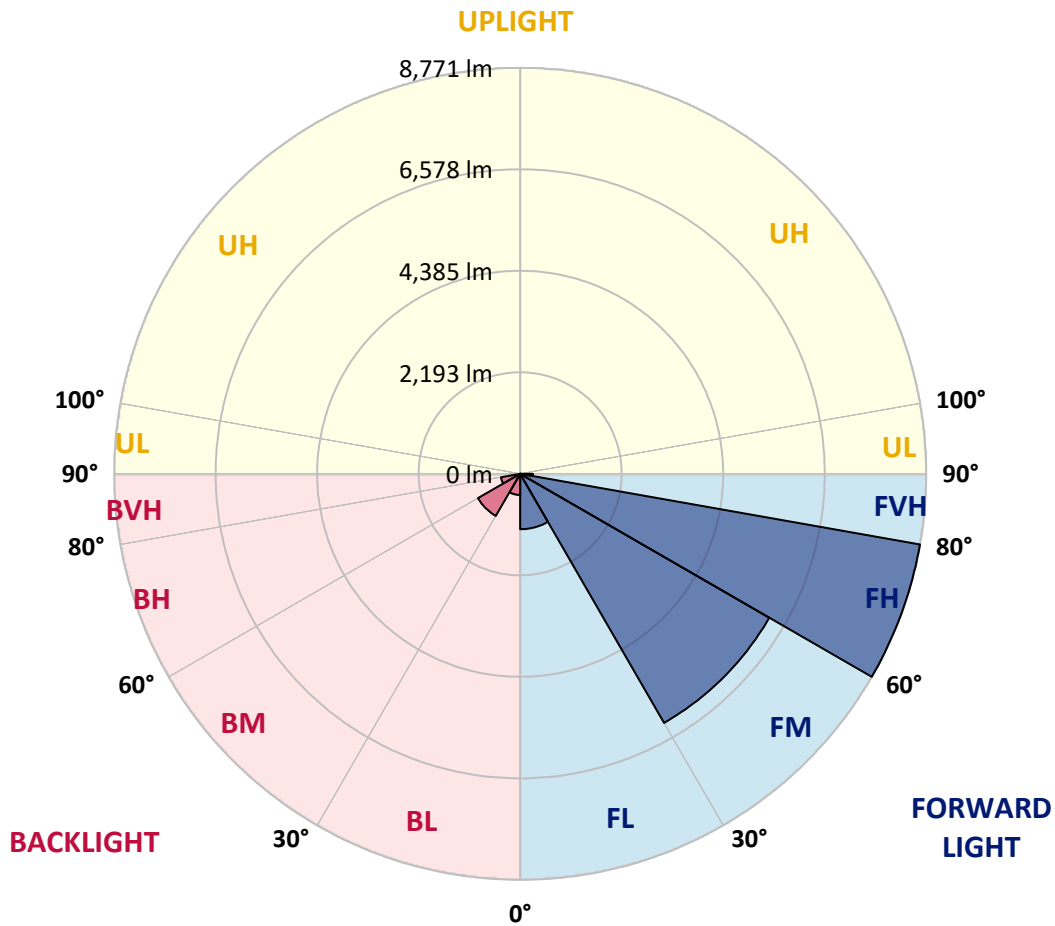
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.1	6.5			
FM (30°-60°)	6213.8	33.8			
FH (60°-80°)	8770.6	47.7			G4/12000
FVH (80°-90°)	277.0	1.5			G3/500
BL (0°-30°)	457.7	2.5	B1/500		
BM (30°-60°)	1051.0	5.7	B2/2500		
BH (60°-80°)	421.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9
2.5°	2200.7	2204.4	2201.9	2186.9	2161.8	2148.0	2140.4	2115.3	2099.0	2070.1
5°	2402.8	2417.9	2409.1	2378.9	2331.2	2297.3	2287.3	2235.8	2189.4	2135.4
7.5°	2617.5	2625.0	2608.7	2569.8	2505.7	2448.0	2439.2	2367.6	2293.6	2210.7
10°	2803.3	2812.0	2786.9	2730.4	2657.6	2586.1	2573.5	2494.4	2406.6	2304.9
12.5°	2958.9	2967.7	2935.1	2867.3	2786.9	2712.9	2700.3	2617.5	2520.8	2407.8
15°	3076.9	3093.3	3049.3	2976.5	2889.9	2815.8	2809.5	2727.9	2633.8	2508.2
17.5°	3146.0	3162.3	3120.9	3033.0	2958.9	2896.2	2888.6	2820.8	2733.0	2612.4
20°	3157.3	3172.3	3128.4	3051.8	2990.3	2940.1	2936.3	2887.4	2823.3	2707.9
22.5°	3123.4	3142.2	3102.0	3040.5	2997.8	2971.5	2966.5	2938.8	2902.4	2804.5
25°	3088.2	3103.3	3073.2	3019.2	2996.6	2994.1	2997.8	2992.8	2985.3	2902.4
27.5°	3085.7	3102.0	3068.1	3016.7	3004.1	3030.5	3034.3	3058.1	3064.4	2991.6
30°	3107.1	3118.4	3085.7	3031.7	3025.5	3085.7	3087.0	3129.7	3139.7	3066.9
32.5°	3153.5	3166.1	3133.4	3054.3	3045.5	3129.7	3133.4	3189.9	3206.2	3147.2
35°	3262.7	3277.8	3240.1	3117.1	3085.7	3171.1	3182.4	3248.9	3281.6	3232.6
37.5°	3535.1	3491.2	3439.7	3243.9	3177.4	3236.4	3255.2	3333.0	3390.8	3334.3
40°	4211.8	4073.7	3913.0	3459.8	3338.1	3375.7	3390.8	3468.6	3547.7	3492.5
42.5°	5227.4	5064.2	4805.6	3957.0	3580.3	3599.2	3610.5	3678.3	3790.0	3746.0
45°	6132.5	6073.5	5809.9	4805.6	4033.5	3940.6	3954.4	3989.6	4154.0	4137.7
47.5°	6828.0	6794.1	6590.7	5779.8	4799.3	4358.7	4397.6	4413.9	4651.2	4708.9
50°	7362.8	7350.2	7168.2	6646.0	5799.8	4975.1	4988.9	4953.7	5309.0	5452.1
52.5°	7867.5	7910.1	7775.8	7450.7	6868.2	5782.3	5779.8	5614.1	6093.6	6309.5
55°	8323.2	8338.2	8352.0	8271.7	7942.8	6701.2	6677.4	6406.2	7003.8	7227.2
57.5°	8751.2	8757.5	8880.5	9045.0	9061.3	7687.9	7644.0	7318.9	7998.0	8157.5
60°	9038.7	9067.6	9327.5	9784.4	9984.0	8706.1	8682.2	8350.8	9009.9	9083.9
62.5°	8624.5	8800.2	9455.5	10361.9	10855.3	9834.6	9823.3	9512.0	10074.4	10014.2
65°	6981.2	7278.7	8431.1	10752.3	11710.2	11095.0	11111.4	10779.9	11167.8	10972.0
67.5°	4883.4	5197.3	6560.6	10783.7	12665.5	12575.1	12669.3	12149.6	12329.1	11889.7
70°	3377.0	3538.9	4426.5	10108.3	13410.0	14613.9	14611.4	13831.8	13484.0	12307.7
72.5°	2271.0	2355.1	2874.8	8019.4	12862.6	15825.3	15752.5	15117.3	13873.2	11510.6
75°	957.9	1019.4	1330.7	4506.8	10176.1	14478.3	14281.2	13359.7	12326.6	9063.8
77.5°	303.8	330.2	524.7	1613.2	5605.3	10882.9	10674.5	8343.2	8261.6	4547.0
80°	144.4	168.2	295.0	647.8	2205.7	5919.1	5890.2	3785.0	3554.0	1227.8
82.5°	62.8	74.1	163.2	346.5	986.7	2111.5	2154.2	1288.0	1065.8	465.7
85°	20.1	26.4	75.3	159.4	416.8	524.7	518.5	306.3	429.3	253.6
87.5°	0.0	0.0	25.1	36.4	42.7	30.1	33.9	26.4	119.3	70.3
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°
2014.9	0°	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9
2040.0	2.5°	2024.9	2004.8	1969.7	1937.0	1908.2	1879.3	1861.7	1836.6	1834.1	1834.1
2072.6	5°	2038.7	2006.1	1943.3	1876.8	1800.2	1727.4	1654.6	1584.3	1561.7	1545.4
2125.4	7.5°	2078.9	2027.4	1928.3	1801.5	1655.8	1496.4	1384.7	1264.2	1217.7	1192.6
2195.7	10°	2136.7	2066.4	1915.7	1693.5	1457.5	1240.3	1080.9	950.3	900.1	878.8
2272.2	12.5°	2200.7	2114.1	1893.1	1559.2	1240.3	980.5	824.8	764.5	757.0	757.0
2363.9	15°	2277.3	2171.8	1854.2	1401.0	1013.1	775.8	720.6	723.1	730.6	735.7
2453.0	17.5°	2356.3	2233.3	1792.7	1224.0	812.2	698.0	699.2	703.0	709.3	714.3
2549.7	20°	2441.7	2294.8	1711.1	1035.7	696.7	675.4	679.2	682.9	687.9	690.5
2640.1	22.5°	2533.4	2352.6	1614.4	851.1	657.8	656.6	657.8	661.6	667.9	667.9
2745.5	25°	2631.3	2416.6	1503.9	716.8	637.7	637.7	640.2	642.8	647.8	647.8
2847.2	27.5°	2731.7	2475.6	1387.2	646.5	620.2	618.9	618.9	622.7	625.2	626.4
2947.6	30°	2842.2	2544.7	1270.4	631.5	606.3	600.1	596.3	598.8	601.3	602.6
3053.1	32.5°	2955.2	2611.2	1166.2	637.7	592.5	581.2	568.7	566.2	566.2	571.2
3162.3	35°	3080.7	2684.0	1085.9	659.1	585.0	553.6	533.5	522.2	523.5	531.0
3292.9	37.5°	3231.3	2771.9	1026.9	677.9	580.0	522.2	489.6	475.8	467.0	475.8
3472.4	40°	3428.4	2901.2	984.2	693.0	573.7	485.8	441.9	419.3	403.0	408.0
3751.1	42.5°	3718.4	3104.6	967.9	694.2	559.9	443.1	392.9	362.8	339.0	340.2
4170.4	45°	4125.2	3425.9	1052.0	677.9	529.8	396.7	341.5	301.3	286.2	282.5
4796.8	47.5°	4682.6	3894.2	1246.6	644.0	485.8	351.5	291.2	257.4	246.1	239.8
5619.1	50°	5429.5	4495.5	1462.5	606.3	441.9	308.8	249.8	228.5	220.9	214.7
6594.5	52.5°	6295.7	5105.6	1639.5	568.7	398.0	271.2	223.5	210.9	204.6	199.6
7536.0	55°	7090.4	5526.2	1629.5	528.5	355.3	241.0	204.6	197.1	189.6	184.5
8347.0	57.5°	7585.0	5585.2	1343.3	484.6	306.3	217.2	187.1	182.0	173.2	167.0
9048.8	60°	7812.2	5248.7	941.5	426.8	257.4	194.6	168.2	165.7	154.4	145.6
9712.9	62.5°	7853.6	4623.6	627.7	355.3	214.7	173.2	149.4	145.6	130.6	115.5
10252.7	65°	7685.4	3729.7	434.4	277.4	183.3	150.6	128.0	120.5	104.2	89.1
10380.7	67.5°	7153.1	2618.7	302.5	199.6	155.7	119.3	101.7	99.2	86.6	74.1
9727.9	70°	6177.7	1492.6	202.1	149.4	123.0	81.6	80.3	82.9	70.3	60.3
7947.8	72.5°	4736.5	682.9	125.5	109.2	84.1	55.2	64.0	65.3	54.0	45.2
4958.7	75°	2788.2	292.5	79.1	70.3	42.7	36.4	46.4	47.7	36.4	28.9
1812.8	77.5°	949.1	110.5	50.2	41.4	21.3	20.1	30.1	30.1	20.1	11.3
364.1	80°	215.9	41.4	25.1	16.3	10.0	8.8	10.0	8.8	5.0	1.3
111.7	82.5°	61.5	16.3	10.0	6.3	3.8	3.8	1.3	0.0	0.0	0.0
38.9	85°	17.6	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
13.8	87.5°	7.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
2014.9
1840.4
1552.9
1196.4
878.8
757.0
735.7
714.3
691.7
670.4
649.0
627.7
605.1
575.0
534.8
473.3
405.5
335.2
277.4
236.0
213.4
198.3
182.0
165.7
143.1
108.0
84.1
70.3
55.2
40.2
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