

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: P955097

Luminaire Tested: **GALN-SB8A-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955097
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-SB8A-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 350mA 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: 17007 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

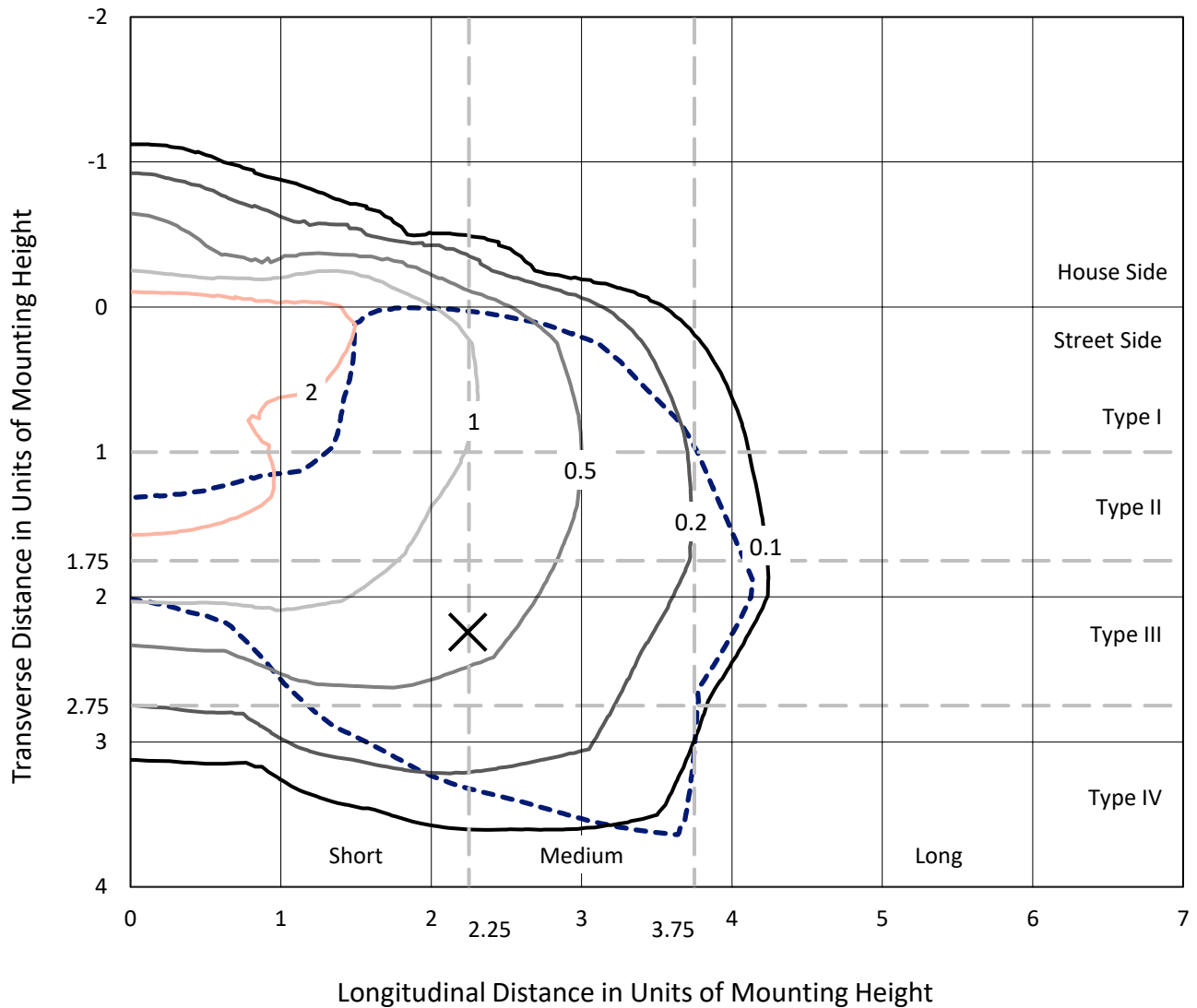
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

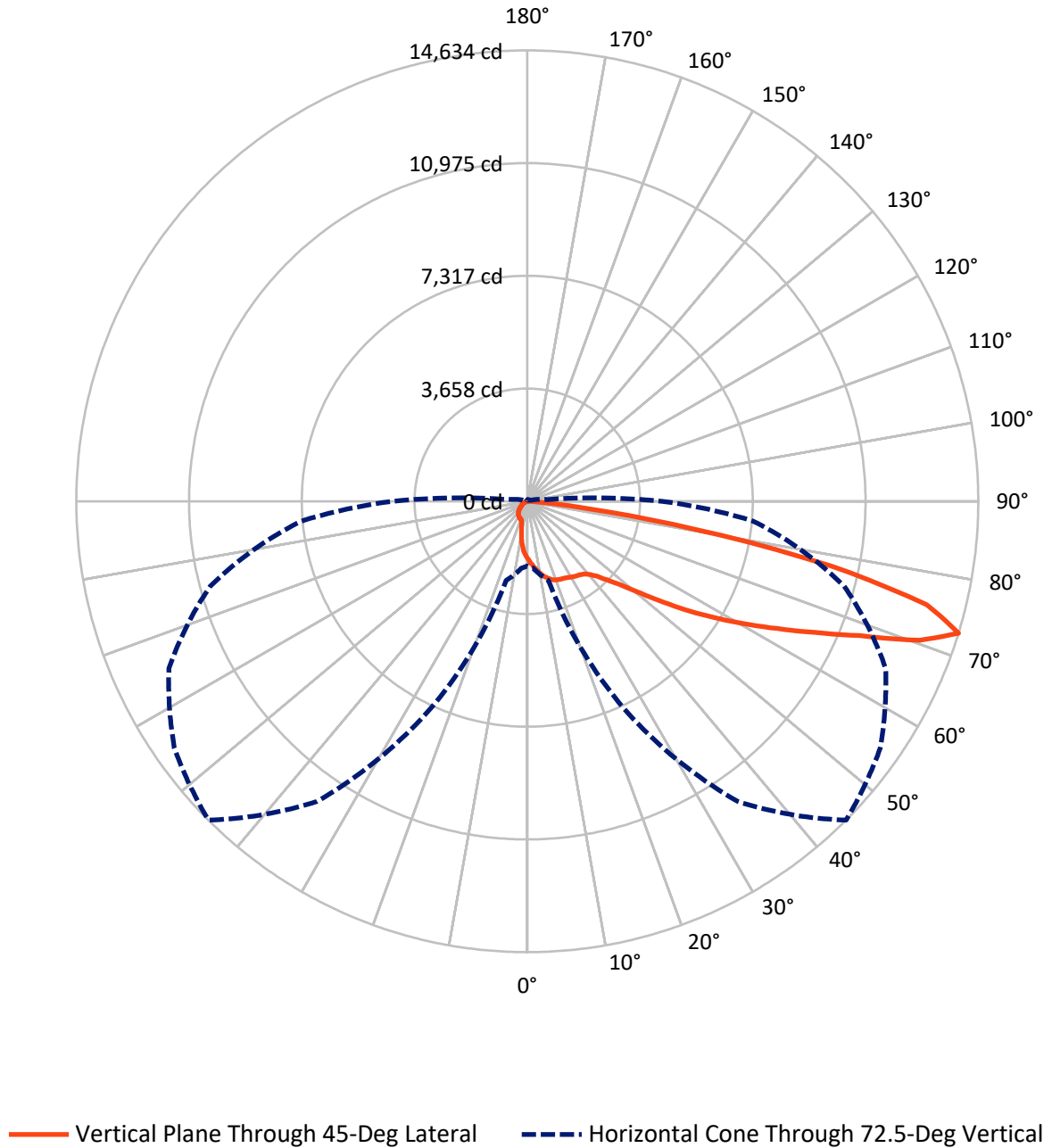
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1787.0	0.0	1787.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15220.0	0.0	15220.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	17007.0	0.0	17007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	1.0
10°-20°	513.0	3.0
20°-30°	842.5	5.0
30°-40°	1194.9	7.0
40°-50°	1975.0	11.6
50°-60°	3547.9	20.9
60°-70°	4926.4	29.0
70°-80°	3573.5	21.0
80°-90°	258.3	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°	17007.0	100.0
0°-180°	17007.0	100.0

Coefficient of Utilization



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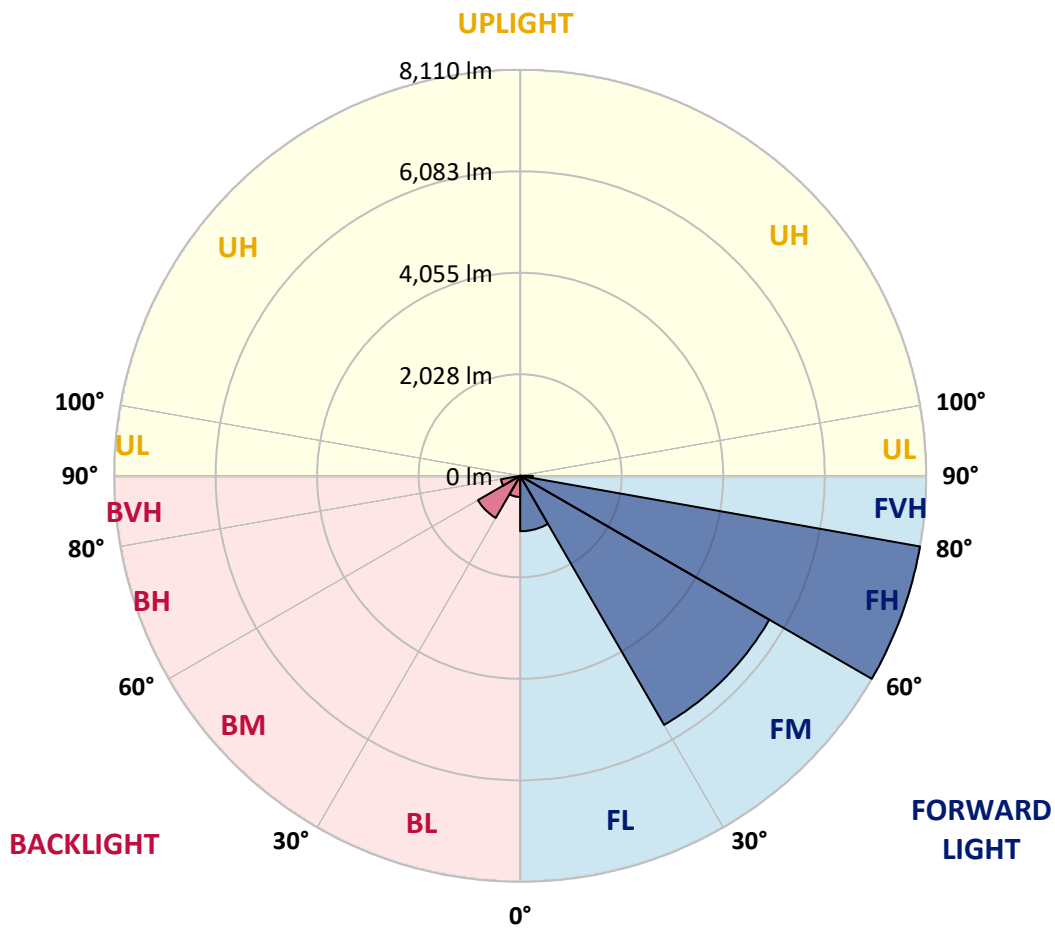
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1107.8	6.5			
FM (30°-60°)	5745.9	33.8			
FH (60°-80°)	8110.2	47.7			G4/12000
FVH (80°-90°)	256.2	1.5			G3/500
BL (0°-30°)	423.3	2.5	B1/500		
BM (30°-60°)	971.8	5.7	B1/1000		
BH (60°-80°)	389.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2
2.5°	2035.0	2038.4	2036.1	2022.2	1999.0	1986.2	1979.2	1956.0	1940.9	1914.2
5°	2221.9	2235.8	2227.7	2199.8	2155.7	2124.3	2115.1	2067.5	2024.5	1974.6
7.5°	2420.4	2427.3	2412.2	2376.2	2317.0	2263.6	2255.5	2189.3	2120.9	2044.2
10°	2592.2	2600.3	2577.1	2524.8	2457.5	2391.3	2379.7	2306.6	2225.3	2131.3
12.5°	2736.1	2744.2	2714.1	2651.4	2577.1	2508.6	2497.0	2420.4	2331.0	2226.5
15°	2845.2	2860.3	2819.7	2752.4	2672.3	2603.8	2598.0	2522.5	2435.4	2319.4
17.5°	2909.1	2924.2	2885.9	2804.6	2736.1	2678.1	2671.1	2608.4	2527.2	2415.7
20°	2919.5	2933.5	2892.8	2822.0	2765.1	2718.7	2715.2	2669.9	2610.7	2503.9
22.5°	2888.2	2905.6	2868.4	2811.6	2772.1	2747.7	2743.1	2717.5	2683.9	2593.3
25°	2855.7	2869.6	2841.7	2791.8	2770.9	2768.6	2772.1	2767.4	2760.5	2683.9
27.5°	2853.4	2868.4	2837.1	2789.5	2777.9	2802.3	2805.8	2827.8	2833.6	2766.3
30°	2873.1	2883.5	2853.4	2803.4	2797.6	2853.4	2854.5	2894.0	2903.3	2835.9
32.5°	2916.0	2927.6	2897.5	2824.3	2816.2	2894.0	2897.5	2949.7	2964.8	2910.2
35°	3017.0	3031.0	2996.1	2882.4	2853.4	2932.3	2942.7	3004.3	3034.4	2989.2
37.5°	3268.9	3228.3	3180.7	2999.6	2938.1	2992.7	3010.1	3082.0	3135.4	3083.2
40°	3894.6	3766.9	3618.3	3199.3	3086.7	3121.5	3135.4	3207.4	3280.5	3229.5
42.5°	4833.8	4682.8	4443.7	3659.0	3310.7	3328.1	3338.6	3401.3	3504.6	3464.0
45°	5670.7	5616.2	5372.4	4443.7	3729.8	3643.9	3656.7	3689.2	3841.2	3826.1
47.5°	6313.8	6282.5	6094.4	5344.5	4437.9	4030.4	4066.4	4081.5	4300.9	4354.3
50°	6808.3	6796.7	6628.4	6145.5	5363.1	4600.4	4613.2	4580.7	4909.2	5041.5
52.5°	7275.0	7314.5	7190.3	6889.6	6351.0	5346.8	5344.5	5191.3	5634.7	5834.4
55°	7696.4	7710.3	7723.1	7648.8	7344.7	6196.6	6174.5	5923.8	6476.3	6683.0
57.5°	8092.2	8098.0	8211.8	8363.9	8379.0	7109.0	7068.4	6767.7	7395.7	7543.2
60°	8358.1	8384.8	8625.1	9047.6	9232.2	8050.4	8028.4	7721.9	8331.4	8399.9
62.5°	7975.0	8137.5	8743.5	9581.6	10037.8	9094.0	9083.6	8795.7	9315.8	9260.0
65°	6455.4	6730.6	7796.2	9942.6	10828.3	10259.5	10274.6	9968.2	10326.9	10145.8
67.5°	4515.7	4805.9	6066.6	9971.6	11711.7	11628.2	11715.2	11234.6	11400.6	10994.3
70°	3122.7	3272.4	4093.1	9347.1	12400.1	13513.4	13511.1	12790.2	12468.6	11380.9
72.5°	2100.0	2177.7	2658.3	7415.5	11894.0	14633.6	14566.3	13978.9	12828.5	10643.8
75°	885.7	942.6	1230.5	4167.4	9409.8	13388.0	13205.8	12353.7	11398.3	8381.3
77.5°	280.9	305.3	485.2	1491.7	5183.2	10063.3	9870.6	7715.0	7639.5	4204.6
80°	133.5	155.6	272.8	599.0	2039.6	5473.4	5446.7	3499.9	3286.3	1135.3
82.5°	58.0	68.5	150.9	320.4	912.4	1952.5	1992.0	1191.0	985.6	430.7
85°	18.6	24.4	69.7	147.4	385.4	485.2	479.4	283.2	397.0	234.5
87.5°	0.0	0.0	23.2	33.7	39.5	27.9	31.3	24.4	110.3	65.0
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°
1863.2	0°	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2	1863.2
1886.4	2.5°	1872.4	1853.9	1821.4	1791.2	1764.5	1737.8	1721.5	1698.3	1696.0	1696.0
1916.6	5°	1885.2	1855.0	1797.0	1735.5	1664.6	1597.3	1530.0	1465.0	1444.1	1429.0
1965.3	7.5°	1922.4	1874.8	1783.1	1665.8	1531.2	1383.7	1280.4	1169.0	1126.0	1102.8
2030.3	10°	1975.8	1910.7	1771.4	1566.0	1347.7	1146.9	999.5	878.8	832.3	812.6
2101.1	12.5°	2035.0	1954.9	1750.6	1441.8	1146.9	906.6	762.7	707.0	700.0	700.0
2185.9	15°	2105.8	2008.3	1714.6	1295.5	936.8	717.4	666.3	668.6	675.6	680.3
2268.3	17.5°	2178.9	2065.1	1657.7	1131.8	751.1	645.4	646.6	650.1	655.9	660.5
2357.7	20°	2257.8	2122.0	1582.2	957.7	644.3	624.5	628.0	631.5	636.1	638.5
2441.3	22.5°	2342.6	2175.4	1492.8	787.1	608.3	607.1	608.3	611.8	617.6	617.6
2538.8	25°	2433.1	2234.6	1390.7	662.8	589.7	589.7	592.0	594.4	599.0	599.0
2632.8	27.5°	2526.0	2289.2	1282.7	597.8	573.5	572.3	572.3	575.8	578.1	579.3
2725.7	30°	2628.1	2353.0	1174.8	583.9	560.7	554.9	551.4	553.7	556.0	557.2
2823.2	32.5°	2732.6	2414.6	1078.4	589.7	547.9	537.5	525.9	523.5	523.5	528.2
2924.2	35°	2848.7	2481.9	1004.1	609.4	541.0	511.9	493.4	482.9	484.1	491.0
3044.9	37.5°	2988.0	2563.1	949.6	626.9	536.3	482.9	452.7	440.0	431.8	440.0
3210.9	40°	3170.3	2682.7	910.1	640.8	530.5	449.2	408.6	387.7	372.6	377.3
3468.6	42.5°	3438.4	2870.8	895.0	641.9	517.7	409.8	363.3	335.5	313.4	314.6
3856.3	45°	3814.5	3167.9	972.8	626.9	489.9	366.8	315.7	278.6	264.7	261.2
4435.6	47.5°	4329.9	3600.9	1152.7	595.5	449.2	325.0	269.3	238.0	227.5	221.7
5195.9	50°	5020.6	4157.0	1352.4	560.7	408.6	285.6	231.0	211.3	204.3	198.5
6097.9	52.5°	5821.6	4721.1	1516.1	525.9	368.0	250.7	206.6	195.0	189.2	184.6
6968.5	55°	6556.4	5110.0	1506.8	488.7	328.5	222.9	189.2	182.3	175.3	170.6
7718.4	57.5°	7013.8	5164.6	1242.1	448.1	283.2	200.8	173.0	168.3	160.2	154.4
8367.4	60°	7223.9	4853.5	870.6	394.7	238.0	179.9	155.6	153.2	142.8	134.7
8981.4	62.5°	7262.2	4275.4	580.4	328.5	198.5	160.2	138.1	134.7	120.7	106.8
9480.6	65°	7106.7	3448.9	401.7	256.5	169.5	139.3	118.4	111.4	96.3	82.4
9599.0	67.5°	6614.5	2421.5	279.8	184.6	143.9	110.3	94.0	91.7	80.1	68.5
8995.4	70°	5712.5	1380.2	186.9	138.1	113.8	75.5	74.3	76.6	65.0	55.7
7349.3	72.5°	4379.9	631.5	116.1	101.0	77.8	51.1	59.2	60.4	49.9	41.8
4585.3	75°	2578.2	270.5	73.1	65.0	39.5	33.7	43.0	44.1	33.7	26.7
1676.3	77.5°	877.6	102.2	46.4	38.3	19.7	18.6	27.9	27.9	18.6	10.4
336.6	80°	199.7	38.3	23.2	15.1	9.3	8.1	9.3	8.1	4.6	1.2
103.3	82.5°	56.9	15.1	9.3	5.8	3.5	3.5	1.2	0.0	0.0	0.0
36.0	85°	16.3	7.0	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
12.8	87.5°	7.0	1.2	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

<u>180°</u>
1863.2
1701.8
1436.0
1106.3
812.6
700.0
680.3
660.5
639.6
619.9
600.2
580.4
559.5
531.7
494.5
437.6
375.0
309.9
256.5
218.2
197.3
183.4
168.3
153.2
132.3
99.8
77.8
65.0
51.1
37.1
23.2
8.1
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