

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: P953732

Luminaire Tested: **GALN-SB7A-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953732
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-SB7A-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 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: 17807 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

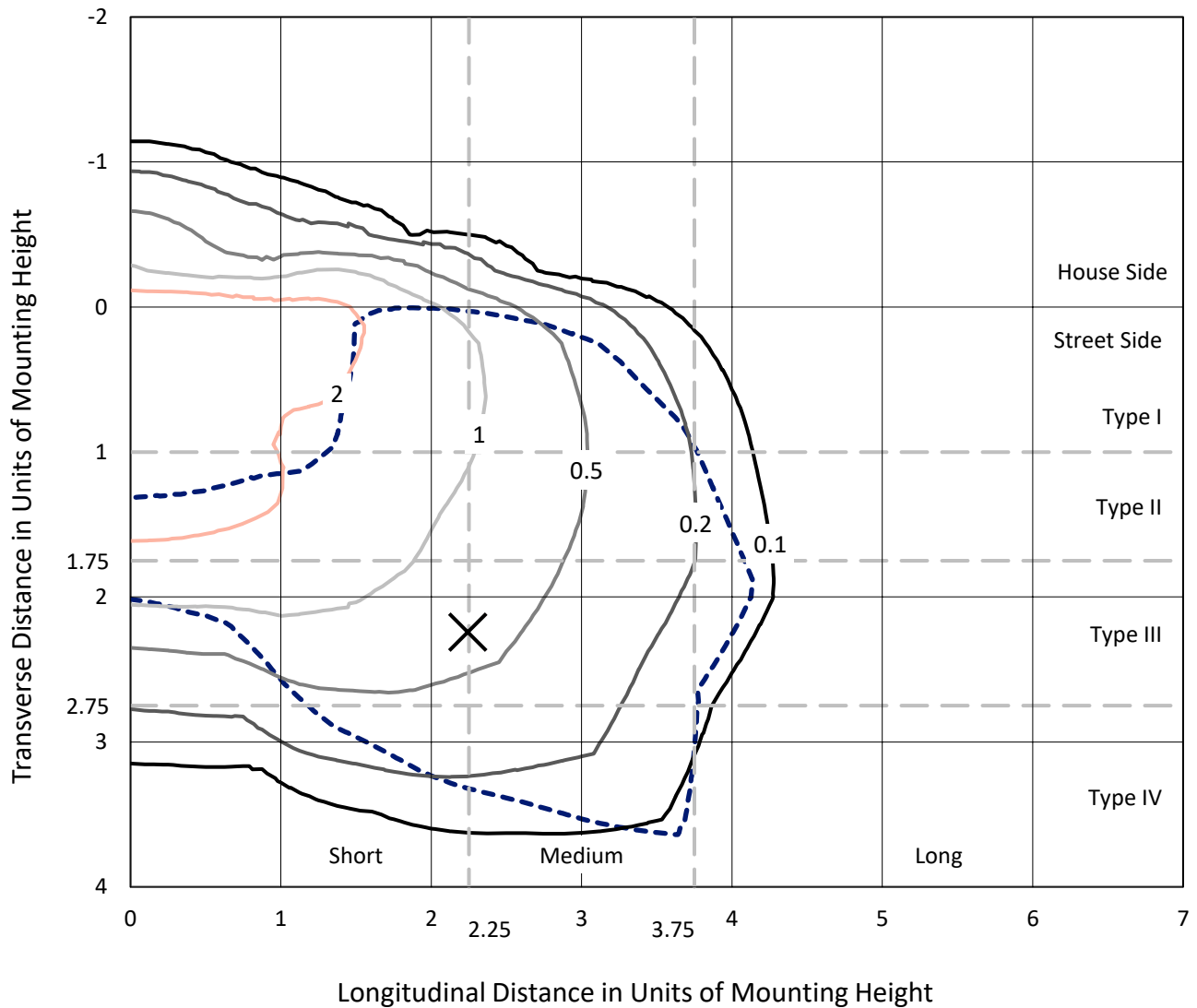
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

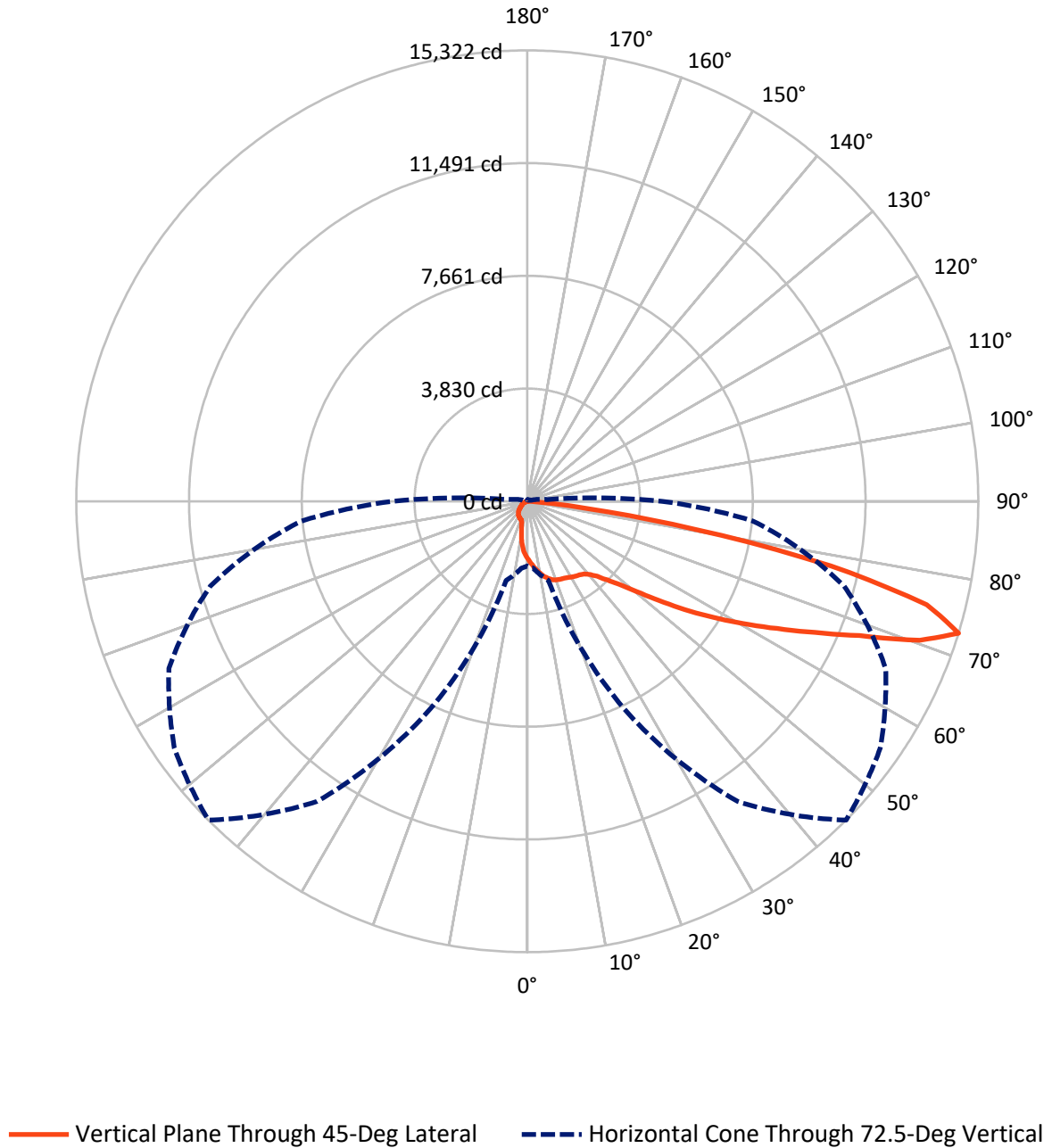
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1871.0	0.0	1871.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15936.0	0.0	15936.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	17807.0	0.0	17807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	1.0
10°-20°	537.2	3.0
20°-30°	882.1	5.0
30°-40°	1251.1	7.0
40°-50°	2067.9	11.6
50°-60°	3714.7	20.9
60°-70°	5158.1	29.0
70°-80°	3741.5	21.0
80°-90°	270.5	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°	17807.0	100.0
0°-180°	17807.0	100.0

Coefficient of Utilization



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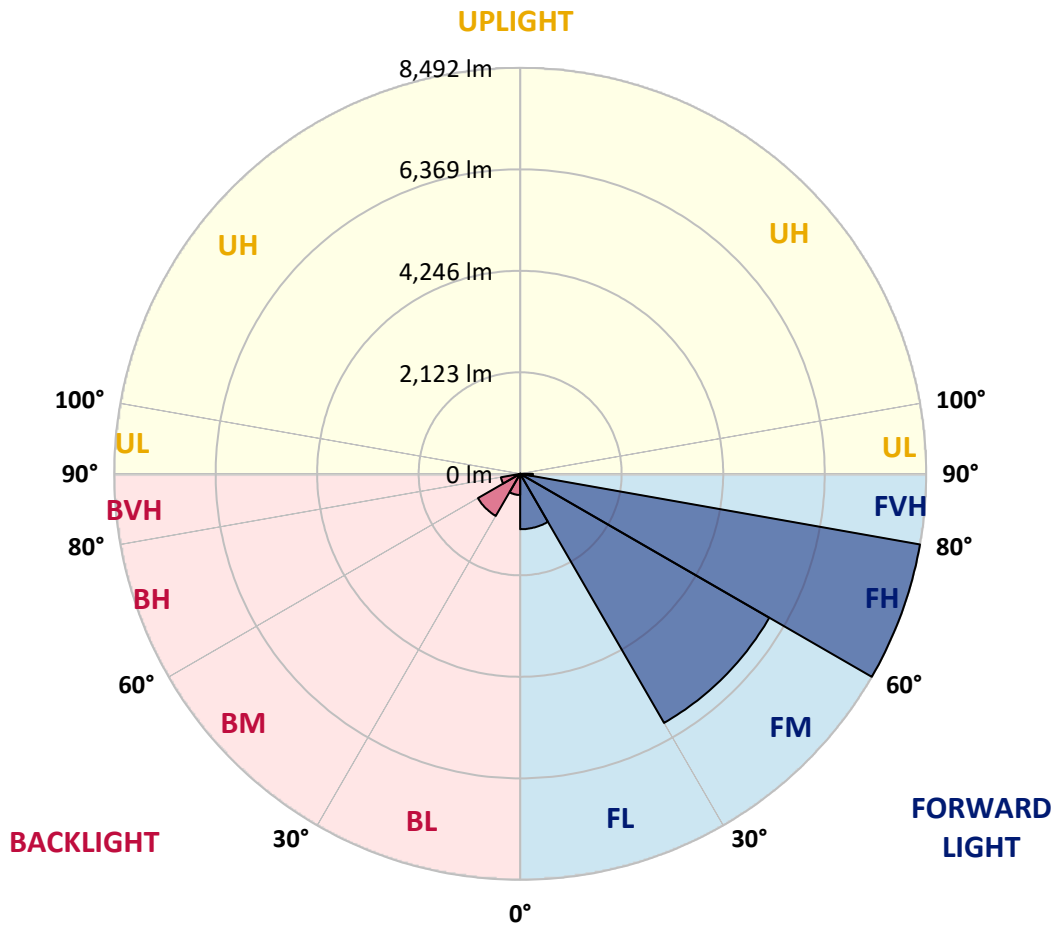
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.9	6.5			
FM (30°-60°)	6016.2	33.8			
FH (60°-80°)	8491.7	47.7			G4/12000
FVH (80°-90°)	268.2	1.5			G3/500
BL (0°-30°)	443.2	2.5	B1/500		
BM (30°-60°)	1017.6	5.7	B2/2500		
BH (60°-80°)	408.0	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°	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8
2.5°	2130.7	2134.3	2131.9	2117.3	2093.0	2079.6	2072.3	2048.0	2032.2	2004.3
5°	2326.4	2341.0	2332.4	2303.3	2257.1	2224.3	2214.5	2164.7	2119.7	2067.5
7.5°	2534.2	2541.5	2525.7	2488.0	2426.0	2370.1	2361.6	2292.3	2220.6	2140.4
10°	2714.1	2722.6	2698.3	2643.6	2573.1	2503.8	2491.7	2415.1	2330.0	2231.6
12.5°	2864.8	2873.3	2841.7	2776.1	2698.3	2626.6	2614.4	2534.2	2440.6	2331.2
15°	2979.1	2994.9	2952.3	2881.8	2798.0	2726.3	2720.2	2641.2	2550.0	2428.5
17.5°	3045.9	3061.7	3021.6	2936.5	2864.8	2804.0	2796.7	2731.1	2646.0	2529.3
20°	3056.9	3071.4	3028.9	2954.8	2895.2	2846.6	2842.9	2795.5	2733.5	2621.7
22.5°	3024.0	3042.3	3003.4	2943.8	2902.5	2877.0	2872.1	2845.4	2810.1	2715.3
25°	2990.0	3004.6	2975.4	2923.2	2901.3	2898.8	2902.5	2897.6	2890.3	2810.1
27.5°	2987.6	3003.4	2970.6	2920.7	2908.6	2934.1	2937.7	2960.8	2966.9	2896.4
30°	3008.2	3019.2	2987.6	2935.3	2929.2	2987.6	2988.8	3030.1	3039.8	2969.3
32.5°	3053.2	3065.4	3033.8	2957.2	2948.7	3030.1	3033.8	3088.5	3104.3	3047.1
35°	3159.0	3173.5	3137.1	3018.0	2987.6	3070.2	3081.2	3145.6	3177.2	3129.8
37.5°	3422.7	3380.2	3330.3	3140.7	3076.3	3133.4	3151.7	3227.0	3282.9	3228.2
40°	4077.8	3944.1	3788.6	3349.8	3231.9	3268.3	3282.9	3358.3	3434.9	3381.4
42.5°	5061.1	4903.1	4652.7	3831.1	3466.5	3484.7	3495.6	3561.3	3669.4	3626.9
45°	5937.5	5880.3	5625.1	4652.7	3905.2	3815.3	3828.7	3862.7	4021.9	4006.1
47.5°	6610.8	6578.0	6381.1	5595.9	4646.7	4220.0	4257.7	4273.5	4503.2	4559.1
50°	7128.6	7116.5	6940.2	6434.6	5615.4	4816.8	4830.2	4796.2	5140.1	5278.7
52.5°	7617.2	7658.5	7528.5	7213.7	6649.7	5598.4	5595.9	5435.5	5899.8	6108.8
55°	8058.4	8073.0	8086.4	8008.6	7690.1	6488.1	6465.0	6202.4	6781.0	6997.3
57.5°	8472.9	8479.0	8598.1	8757.3	8773.1	7443.4	7400.9	7086.1	7743.6	7898.0
60°	8751.2	8779.2	9030.8	9473.2	9666.5	8429.1	8406.0	8085.2	8723.3	8795.0
62.5°	8350.1	8520.3	9154.8	10032.3	10510.0	9521.8	9510.9	9209.5	9754.0	9695.6
65°	6759.1	7047.2	8163.0	10410.3	11337.7	10742.1	10757.9	10437.1	10812.6	10623.0
67.5°	4728.1	5032.0	6351.9	10440.7	12262.7	12175.1	12266.3	11763.1	11936.9	11511.5
70°	3269.6	3426.3	4285.7	9786.8	12983.4	14149.0	14146.6	13391.8	13055.1	11916.3
72.5°	2198.7	2280.2	2783.4	7764.3	12453.5	15321.9	15251.4	14636.4	13431.9	11144.4
75°	927.4	986.9	1288.4	4363.5	9852.4	14017.8	13826.9	12934.8	11934.5	8775.5
77.5°	294.1	319.7	508.1	1561.9	5427.0	10536.7	10335.0	8077.9	7998.9	4402.4
80°	139.8	162.9	285.6	627.2	2135.5	5730.8	5702.9	3664.6	3440.9	1188.7
82.5°	60.8	71.7	158.0	335.5	955.3	2044.4	2085.7	1247.1	1031.9	450.9
85°	19.4	25.5	72.9	154.4	403.5	508.1	502.0	296.6	415.7	245.5
87.5°	0.0	0.0	24.3	35.2	41.3	29.2	32.8	25.5	115.5	68.1
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°
1950.8	0°	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8
1975.1	2.5°	1960.5	1941.1	1907.0	1875.4	1847.5	1819.5	1802.5	1778.2	1775.8	1775.8
2006.7	5°	1973.9	1942.3	1881.5	1817.1	1743.0	1672.5	1602.0	1533.9	1512.0	1496.2
2057.8	7.5°	2012.8	1962.9	1866.9	1744.2	1603.2	1448.8	1340.6	1224.0	1179.0	1154.7
2125.8	10°	2068.7	2000.6	1854.8	1639.6	1411.1	1200.9	1046.5	920.1	871.5	850.8
2200.0	12.5°	2130.7	2046.8	1832.9	1509.6	1200.9	949.3	798.5	740.2	732.9	732.9
2288.7	15°	2204.8	2102.7	1795.2	1356.4	980.9	751.1	697.7	700.1	707.4	712.3
2375.0	17.5°	2281.4	2162.3	1735.7	1185.1	786.4	675.8	677.0	680.7	686.7	691.6
2468.6	20°	2364.0	2221.8	1656.7	1002.7	674.6	653.9	657.6	661.2	666.1	668.5
2556.1	22.5°	2452.8	2277.8	1563.1	824.1	636.9	635.7	636.9	640.5	646.6	646.6
2658.2	25°	2547.6	2339.7	1456.1	694.0	617.4	617.4	619.9	622.3	627.2	627.2
2756.6	27.5°	2644.8	2396.9	1343.1	626.0	600.4	599.2	599.2	602.9	605.3	606.5
2853.9	30°	2751.8	2463.7	1230.0	611.4	587.1	581.0	577.3	579.8	582.2	583.4
2956.0	32.5°	2861.2	2528.1	1129.2	617.4	573.7	562.8	550.6	548.2	548.2	553.0
3061.7	35°	2982.7	2598.6	1051.4	638.1	566.4	536.0	516.6	505.6	506.8	514.1
3188.1	37.5°	3128.6	2683.7	994.2	656.3	561.5	505.6	474.0	460.7	452.1	460.7
3361.9	40°	3319.4	2808.9	952.9	670.9	555.5	470.4	427.8	406.0	390.2	395.0
3631.8	42.5°	3600.2	3005.8	937.1	672.1	542.1	429.1	380.4	351.3	328.2	329.4
4037.7	45°	3994.0	3317.0	1018.5	656.3	512.9	384.1	330.6	291.7	277.1	273.5
4644.2	47.5°	4533.6	3770.3	1206.9	623.5	470.4	340.3	282.0	249.2	238.2	232.2
5440.3	50°	5256.8	4352.5	1416.0	587.1	427.8	299.0	241.9	221.2	213.9	207.8
6384.8	52.5°	6095.5	4943.2	1587.4	550.6	385.3	262.5	216.3	204.2	198.1	193.3
7296.3	55°	6864.9	5350.4	1577.7	511.7	344.0	233.4	198.1	190.8	183.5	178.7
8081.5	57.5°	7343.7	5407.5	1300.5	469.2	296.6	210.3	181.1	176.2	167.7	161.7
8761.0	60°	7563.7	5081.8	911.6	413.3	249.2	188.4	162.9	160.4	149.5	141.0
9403.9	62.5°	7603.8	4476.5	607.7	344.0	207.8	167.7	144.6	141.0	126.4	111.8
9926.6	65°	7441.0	3611.1	420.5	268.6	177.5	145.9	124.0	116.7	100.9	86.3
10050.5	67.5°	6925.6	2535.4	292.9	193.3	150.7	115.5	98.5	96.0	83.9	71.7
9418.5	70°	5981.2	1445.2	195.7	144.6	119.1	79.0	77.8	80.2	68.1	58.3
7695.0	72.5°	4585.9	661.2	121.5	105.7	81.4	53.5	62.0	63.2	52.3	43.8
4801.0	75°	2699.5	283.2	76.6	68.1	41.3	35.2	45.0	46.2	35.2	28.0
1755.1	77.5°	918.9	107.0	48.6	40.1	20.7	19.4	29.2	29.2	19.4	10.9
352.5	80°	209.1	40.1	24.3	15.8	9.7	8.5	9.7	8.5	4.9	1.2
108.2	82.5°	59.6	15.8	9.7	6.1	3.6	3.6	1.2	0.0	0.0	0.0
37.7	85°	17.0	7.3	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
13.4	87.5°	7.3	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>
1950.8
1781.8
1503.5
1158.3
850.8
732.9
712.3
691.6
669.7
649.0
628.4
607.7
585.8
556.7
517.8
458.2
392.6
324.5
268.6
228.5
206.6
192.0
176.2
160.4
138.6
104.5
81.4
68.1
53.5
38.9
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