

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: P950183

Luminaire Tested: **GALN-SB4C-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950183
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-SB4C-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA 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: 16083 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

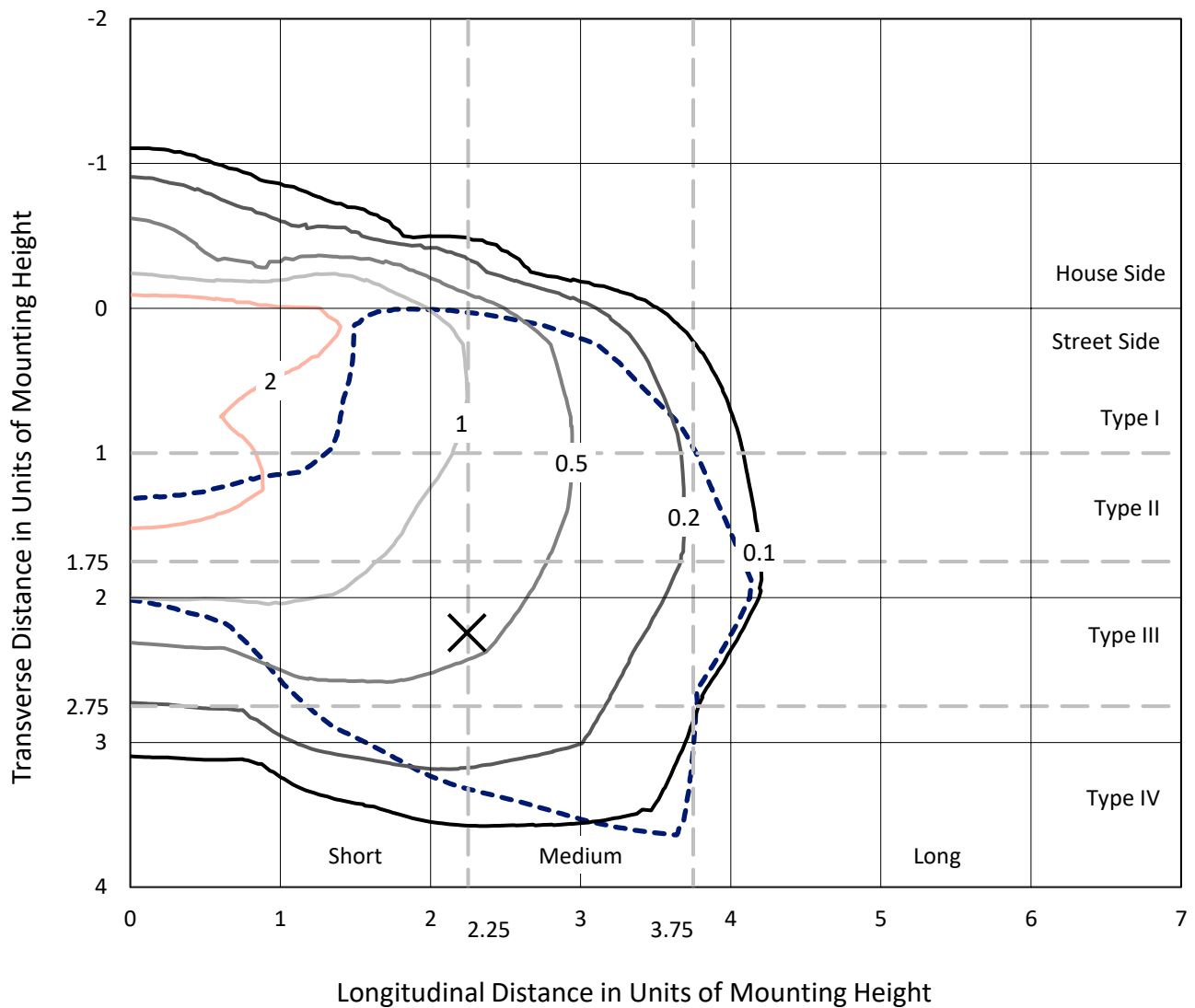
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

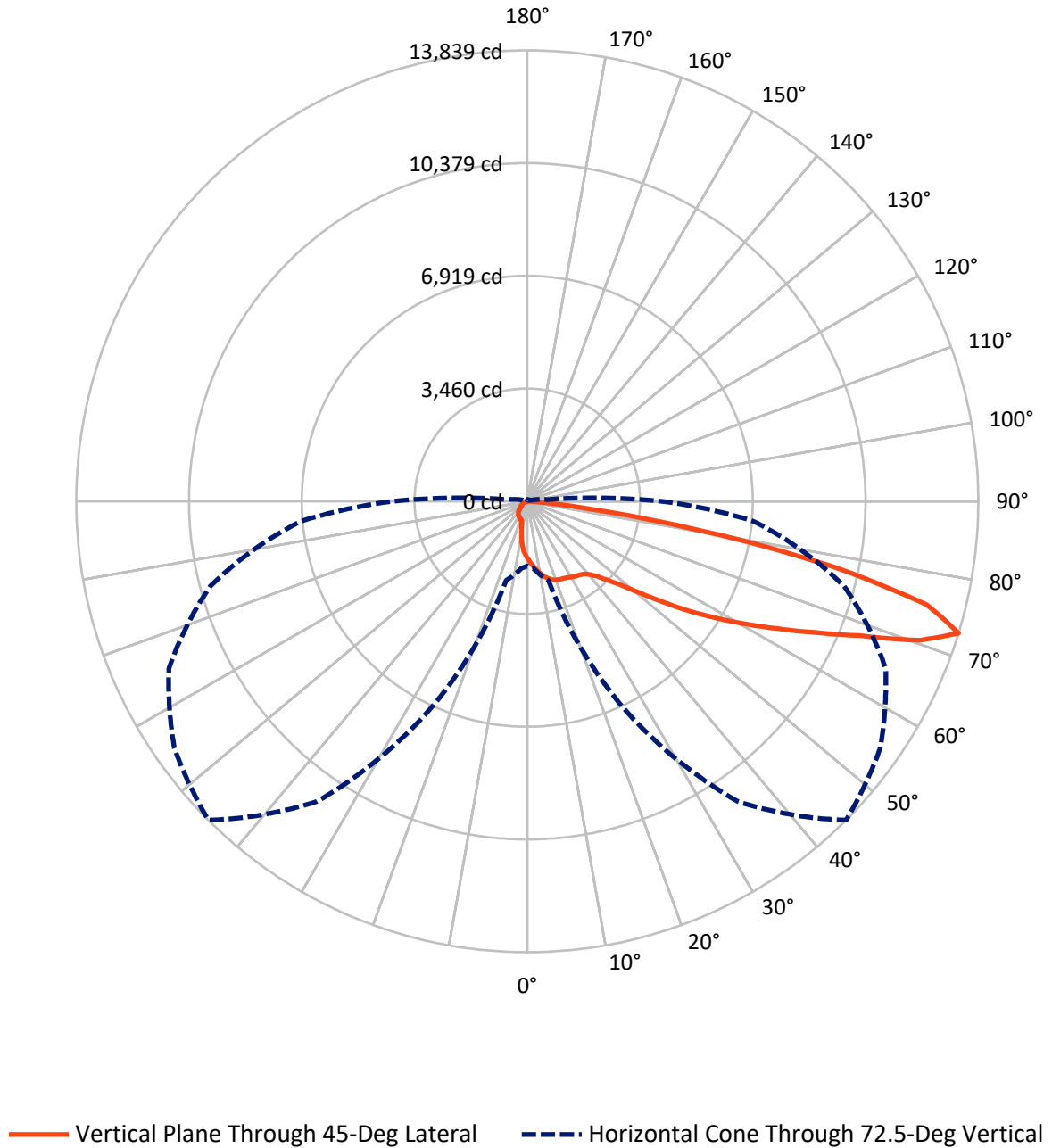
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1689.9	0.0	1689.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14393.1	0.0	14393.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	16083.0	0.0	16083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	1.0
10°-20°	485.2	3.0
20°-30°	796.7	5.0
30°-40°	1130.0	7.0
40°-50°	1867.7	11.6
50°-60°	3355.1	20.9
60°-70°	4658.7	29.0
70°-80°	3379.3	21.0
80°-90°	244.3	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°	16083.0	100.0
0°-180°	16083.0	100.0

Coefficient of Utilization



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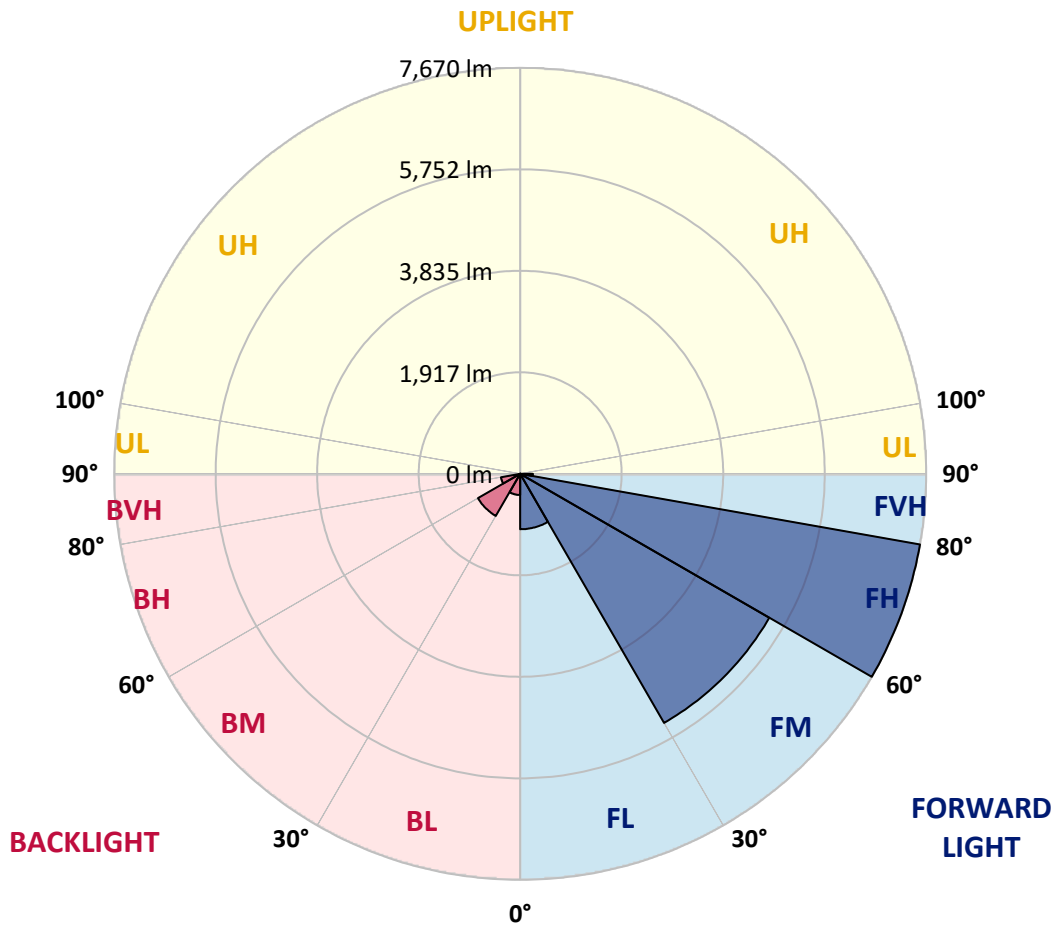
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.6	6.5			
FM (30°-60°)	5433.7	33.8			
FH (60°-80°)	7669.5	47.7			G4/12000
FVH (80°-90°)	242.3	1.5			G3/500
BL (0°-30°)	400.3	2.5	B1/500		
BM (30°-60°)	919.1	5.7	B1/1000		
BH (60°-80°)	368.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9
2.5°	1924.4	1927.7	1925.5	1912.3	1890.4	1878.3	1871.7	1849.7	1835.5	1810.2
5°	2101.1	2114.3	2106.6	2080.3	2038.6	2008.9	2000.1	1955.1	1914.5	1867.3
7.5°	2288.9	2295.4	2281.2	2247.1	2191.2	2140.7	2133.0	2070.4	2005.6	1933.2
10°	2451.3	2459.0	2437.1	2387.7	2324.0	2261.4	2250.4	2181.3	2104.4	2015.5
12.5°	2587.5	2595.1	2566.6	2507.3	2437.1	2372.3	2361.3	2288.9	2204.3	2105.5
15°	2690.6	2704.9	2666.5	2602.8	2527.1	2462.3	2456.8	2385.5	2303.1	2193.4
17.5°	2751.0	2765.3	2729.1	2652.2	2587.5	2532.6	2526.0	2466.7	2389.9	2284.5
20°	2760.9	2774.1	2735.7	2668.7	2614.9	2571.0	2567.7	2524.9	2468.9	2367.9
22.5°	2731.3	2747.7	2712.6	2658.8	2621.5	2598.4	2594.0	2569.9	2538.1	2452.4
25°	2700.5	2713.7	2687.4	2640.1	2620.4	2618.2	2621.5	2617.1	2610.5	2538.1
27.5°	2698.3	2712.6	2683.0	2638.0	2627.0	2650.0	2653.3	2674.2	2679.7	2616.0
30°	2717.0	2726.9	2698.3	2651.1	2645.6	2698.3	2699.4	2736.7	2745.5	2681.9
32.5°	2757.6	2768.6	2740.0	2670.9	2663.2	2736.7	2740.0	2789.4	2803.7	2752.1
35°	2853.1	2866.3	2833.4	2725.8	2698.3	2773.0	2782.9	2841.0	2869.6	2826.8
37.5°	3091.3	3052.9	3007.9	2836.6	2778.5	2830.1	2846.5	2914.6	2965.1	2915.7
40°	3683.0	3562.3	3421.8	3025.5	2919.0	2951.9	2965.1	3033.1	3102.3	3054.0
42.5°	4571.1	4428.4	4202.3	3460.2	3130.9	3147.3	3157.2	3216.5	3314.2	3275.8
45°	5362.6	5311.0	5080.5	4202.3	3527.1	3445.9	3458.0	3488.7	3632.5	3618.3
47.5°	5970.8	5941.2	5763.3	5054.2	4196.8	3811.5	3845.5	3859.8	4067.3	4117.7
50°	6438.4	6427.5	6268.3	5811.6	5071.7	4350.5	4362.6	4331.8	4642.5	4767.6
52.5°	6879.7	6917.1	6799.6	6515.3	6005.9	5056.3	5054.2	4909.2	5328.6	5517.4
55°	7278.2	7291.4	7303.5	7233.2	6945.6	5859.9	5839.1	5601.9	6124.5	6319.9
57.5°	7652.6	7658.1	7765.7	7909.5	7923.7	6722.8	6684.3	6400.0	6993.9	7133.3
60°	7904.0	7929.2	8156.5	8556.0	8730.6	7613.1	7592.2	7302.4	7878.7	7943.5
62.5°	7541.7	7695.4	8268.4	9061.0	9492.4	8600.0	8590.1	8317.8	8809.6	8756.9
65°	6104.7	6364.9	7372.6	9402.4	10240.0	9702.1	9716.4	9426.6	9765.8	9594.5
67.5°	4270.3	4544.8	5737.0	9429.9	11075.4	10996.4	11078.7	10624.3	10781.2	10397.0
70°	2953.0	3094.6	3870.8	8839.3	11726.4	12779.2	12777.0	12095.3	11791.2	10762.6
72.5°	1985.9	2059.4	2513.9	7012.6	11247.8	13838.5	13774.9	13219.4	12131.5	10065.5
75°	837.6	891.4	1163.6	3941.0	8898.6	12660.6	12488.3	11682.5	10779.0	7925.9
77.5°	265.7	288.7	458.9	1410.6	4901.6	9516.6	9334.4	7295.8	7224.4	3976.1
80°	126.2	147.1	258.0	566.5	1928.8	5176.0	5150.8	3309.8	3107.8	1073.6
82.5°	54.9	64.8	142.7	303.0	862.9	1846.5	1883.8	1126.3	932.0	407.3
85°	17.6	23.1	65.9	139.4	364.5	458.9	453.4	267.9	375.4	221.8
87.5°	0.0	0.0	22.0	31.8	37.3	26.3	29.6	23.1	104.3	61.5
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°
1761.9	0°	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9	1761.9
1783.9	2.5°	1770.7	1753.1	1722.4	1693.9	1668.6	1643.4	1628.0	1606.0	1603.8	1603.8
1812.4	5°	1782.8	1754.2	1699.4	1641.2	1574.2	1510.5	1446.9	1385.4	1365.6	1351.4
1858.5	7.5°	1817.9	1772.9	1686.2	1575.3	1448.0	1308.5	1210.8	1105.5	1064.8	1042.9
1920.0	10°	1868.4	1806.9	1675.2	1480.9	1274.5	1084.6	945.2	831.0	787.1	768.4
1987.0	12.5°	1924.4	1848.7	1655.4	1363.4	1084.6	857.4	721.2	668.5	662.0	662.0
2067.1	15°	1991.4	1899.1	1621.4	1225.1	885.9	678.4	630.1	632.3	638.9	643.3
2145.0	17.5°	2060.5	1952.9	1567.6	1070.3	710.3	610.4	611.5	614.8	620.2	624.6
2229.6	20°	2135.2	2006.7	1496.3	905.7	609.3	590.6	593.9	597.2	601.6	603.8
2308.6	22.5°	2215.3	2057.2	1411.7	744.3	575.2	574.1	575.2	578.5	584.0	584.0
2400.8	25°	2300.9	2113.2	1315.1	626.8	557.7	557.7	559.9	562.1	566.5	566.5
2489.8	27.5°	2388.8	2164.8	1213.0	565.4	542.3	541.2	541.2	544.5	546.7	547.8
2577.6	30°	2485.4	2225.2	1110.9	552.2	530.2	524.7	521.4	523.6	525.8	526.9
2669.8	32.5°	2584.2	2283.4	1019.8	557.7	518.1	508.3	497.3	495.1	495.1	499.5
2765.3	35°	2693.9	2347.0	949.6	576.3	511.6	484.1	466.6	456.7	457.8	464.4
2879.5	37.5°	2825.7	2423.9	898.0	592.8	507.2	456.7	428.1	416.1	408.4	416.1
3036.4	40°	2998.0	2537.0	860.7	606.0	501.7	424.8	386.4	366.7	352.4	356.8
3280.1	42.5°	3251.6	2714.8	846.4	607.1	489.6	387.5	343.6	317.3	296.4	297.5
3646.8	45°	3607.3	2995.8	919.9	592.8	463.3	346.9	298.6	263.5	250.3	247.0
4194.6	47.5°	4094.7	3405.3	1090.1	563.2	424.8	307.4	254.7	225.0	215.2	209.7
4913.6	50°	4747.9	3931.1	1278.9	530.2	386.4	270.1	218.5	199.8	193.2	187.7
5766.6	52.5°	5505.3	4464.6	1433.7	497.3	348.0	237.1	195.4	184.4	178.9	174.5
6589.9	55°	6200.2	4832.4	1424.9	462.2	310.7	210.8	178.9	172.4	165.8	161.4
7299.1	57.5°	6632.7	4884.0	1174.6	423.7	267.9	189.9	163.6	159.2	151.5	146.0
7912.8	60°	6831.4	4589.8	823.3	373.2	225.0	170.2	147.1	144.9	135.0	127.3
8493.5	62.5°	6867.7	4043.1	548.9	310.7	187.7	151.5	130.6	127.3	114.2	101.0
8965.5	65°	6720.6	3261.5	379.8	242.6	160.3	131.7	112.0	105.4	91.1	77.9
9077.5	67.5°	6255.1	2290.0	264.6	174.5	136.1	104.3	88.9	86.7	75.7	64.8
8506.6	70°	5402.1	1305.3	176.7	130.6	107.6	71.4	70.3	72.5	61.5	52.7
6950.0	72.5°	4141.9	597.2	109.8	95.5	73.6	48.3	56.0	57.1	47.2	39.5
4336.2	75°	2438.2	255.8	69.2	61.5	37.3	31.8	40.6	41.7	31.8	25.2
1585.2	77.5°	829.9	96.6	43.9	36.2	18.7	17.6	26.3	26.3	17.6	9.9
318.4	80°	188.8	36.2	22.0	14.3	8.8	7.7	8.8	7.7	4.4	1.1
97.7	82.5°	53.8	14.3	8.8	5.5	3.3	3.3	1.1	0.0	0.0	0.0
34.0	85°	15.4	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
12.1	87.5°	6.6	1.1	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>
1761.9
1609.3
1357.9
1046.2
768.4
662.0
643.3
624.6
604.9
586.2
567.5
548.9
529.1
502.8
467.7
413.9
354.6
293.1
242.6
206.4
186.6
173.4
159.2
144.9
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22.0
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