

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: P941548

Luminaire Tested: **GALN-SB5A-850-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-850-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

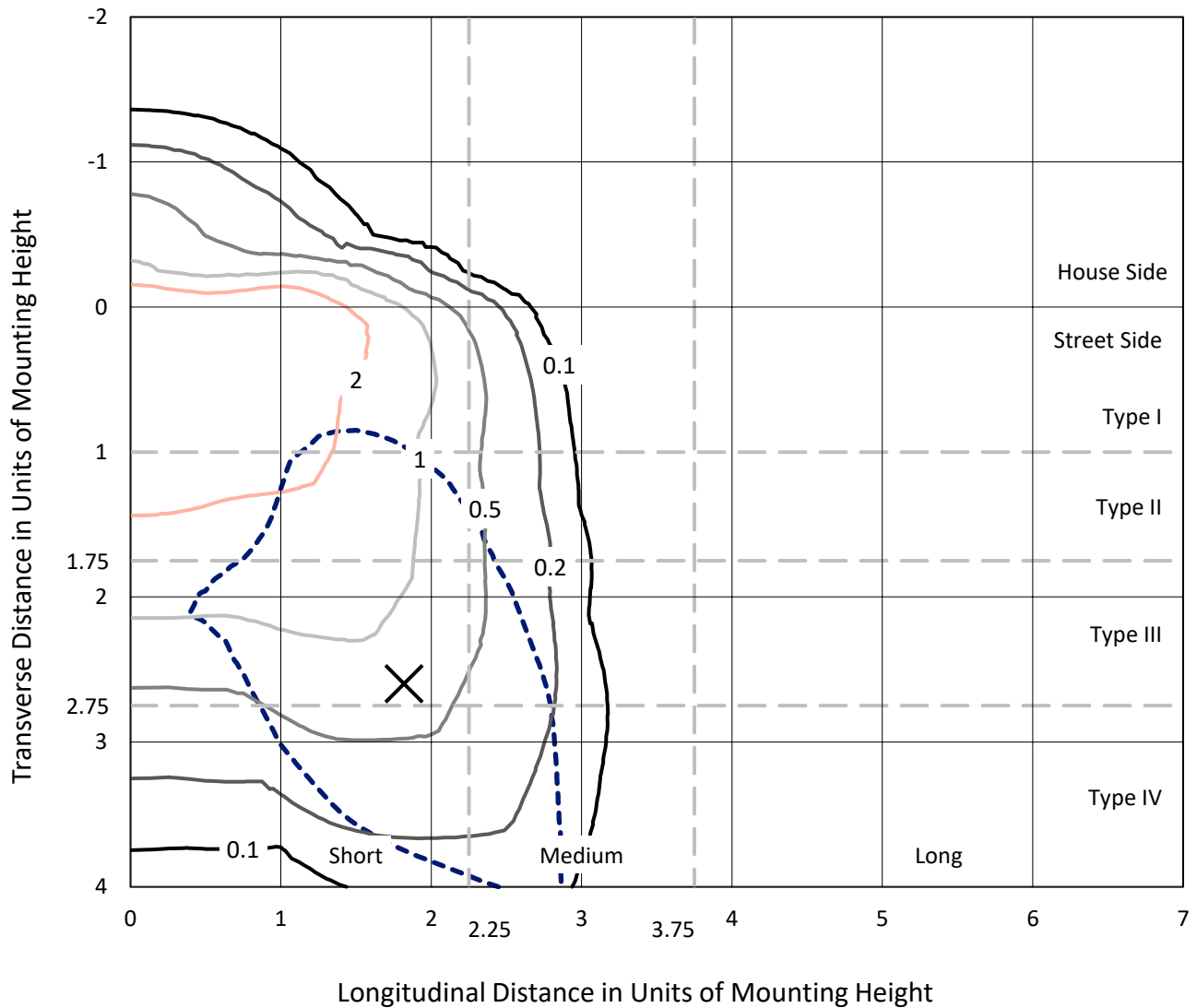
Lumens per Lamp: N/A  
Luminaire Lumens: 16411 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

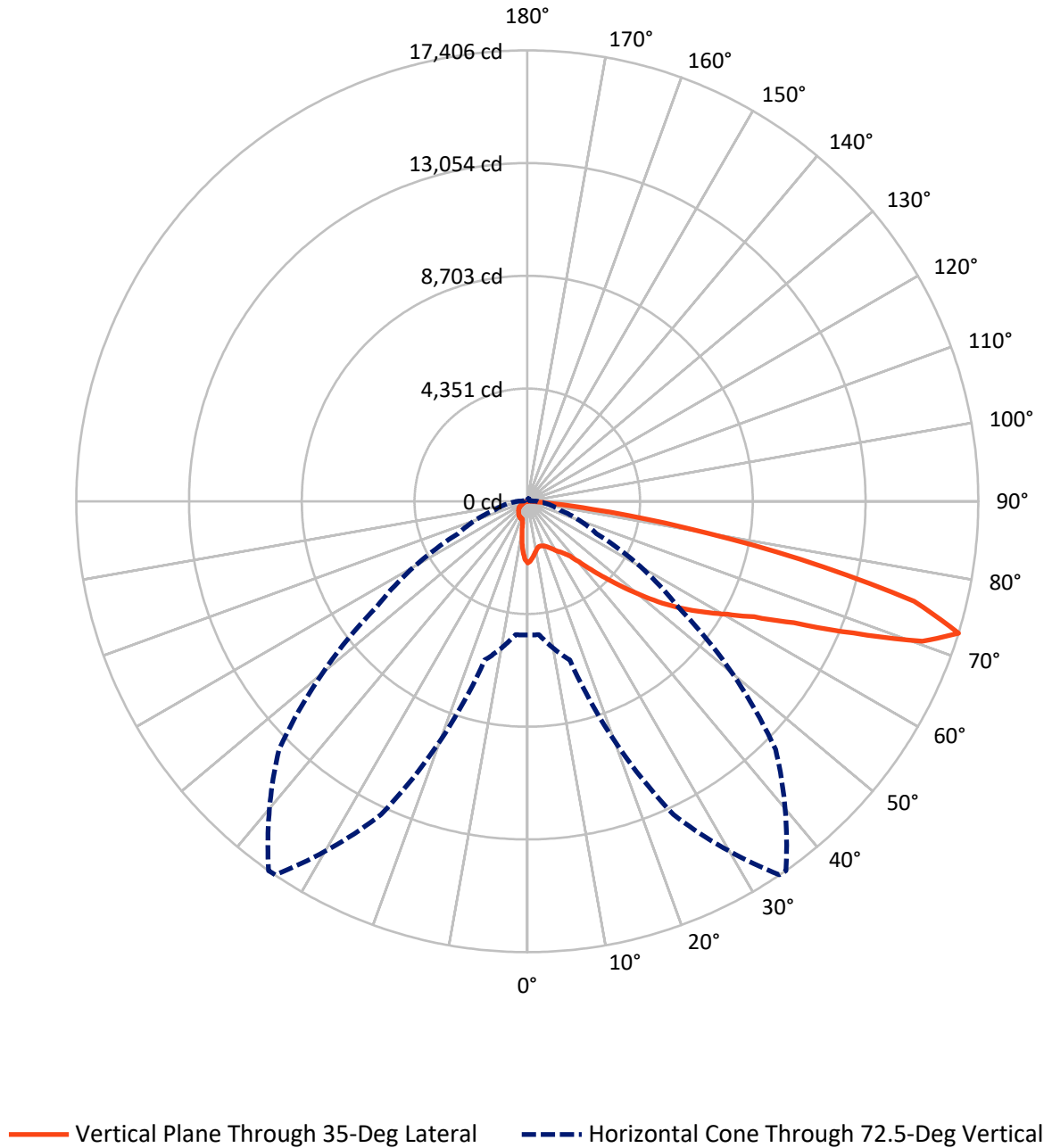
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1847.0	0.0	1847.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	14564.0	0.0	14564.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	16411.0	0.0	16411.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.4	1.2
10°-20°	457.2	2.8
20°-30°	742.8	4.5
30°-40°	1239.3	7.6
40°-50°	2344.8	14.3
50°-60°	3725.8	22.7
60°-70°	4609.1	28.1
70°-80°	2865.0	17.5
80°-90°	231.5	1.4
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°	16411.0	100.0
0°-180°	16411.0	100.0

**Coefficient of Utilization**



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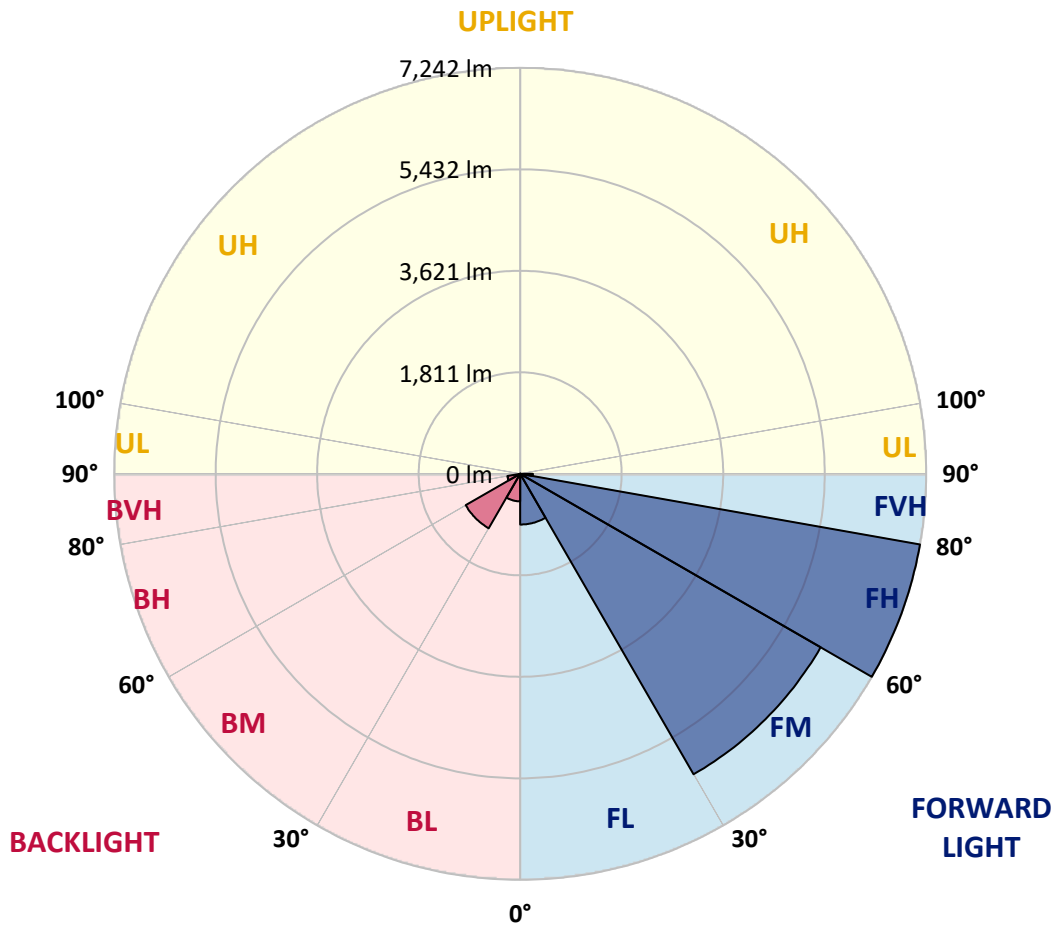
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.7	5.5			
FM (30°-60°)	6188.6	37.7			
FH (60°-80°)	7242.4	44.1			G3/7500
FVH (80°-90°)	228.4	1.4			G3/500
BL (0°-30°)	490.8	3.0	B1/500		
BM (30°-60°)	1121.3	6.8	B2/2500		
BH (60°-80°)	231.8	1.4	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5
2.5°	2272.7	2291.9	2295.5	2301.5	2301.5	2308.8	2320.8	2337.6	2365.3	2379.7
5°	2094.7	2109.1	2127.2	2141.6	2169.3	2172.9	2219.8	2265.5	2329.2	2377.3
7.5°	1915.5	1932.4	1956.4	1991.3	2027.4	2038.2	2109.1	2186.1	2287.1	2377.3
10°	1789.3	1790.5	1812.1	1847.0	1904.7	1918.0	2004.5	2114.0	2240.2	2362.9
12.5°	1718.3	1726.8	1736.4	1762.8	1818.1	1826.6	1919.2	2047.8	2193.3	2354.5
15°	1718.3	1724.4	1730.4	1743.6	1788.1	1795.3	1877.1	2005.7	2169.3	2358.1
17.5°	1736.4	1746.0	1741.2	1756.8	1803.7	1808.5	1880.7	1993.7	2168.1	2380.9
20°	1779.7	1786.9	1777.3	1786.9	1833.8	1843.4	1918.0	2016.6	2188.5	2420.6
22.5°	1848.2	1851.8	1829.0	1836.2	1884.3	1896.3	1982.9	2081.5	2237.8	2484.3
25°	1934.8	1942.0	1907.1	1915.5	1961.2	1975.7	2075.5	2178.9	2316.0	2572.1
27.5°	2034.6	2038.2	2008.1	2006.9	2065.9	2086.3	2187.3	2299.1	2420.6	2682.7
30°	2148.8	2159.7	2130.8	2126.0	2200.5	2217.4	2317.2	2447.0	2574.5	2848.7
32.5°	2239.0	2247.4	2230.6	2242.6	2318.4	2331.6	2474.7	2656.3	2816.2	3084.4
35°	2368.9	2373.7	2335.2	2356.9	2443.4	2477.1	2689.9	2949.7	3120.4	3380.2
37.5°	2839.1	2839.1	2675.5	2568.5	2651.5	2681.5	2984.6	3318.8	3495.6	3777.0
40°	3489.6	3478.8	3239.5	3020.6	3009.8	3068.7	3404.2	3784.2	3980.2	4253.2
42.5°	4183.4	4166.6	3840.7	3624.3	3588.2	3608.6	3888.8	4357.8	4557.4	4834.0
45°	4799.1	4794.3	4496.1	4205.1	4140.1	4205.1	4493.7	5028.8	5171.9	5462.9
47.5°	5315.0	5315.0	5097.3	4907.3	4873.6	4912.1	5312.6	5773.1	5759.9	6132.6
50°	5909.0	5904.2	5697.3	5615.6	5650.5	5704.6	6255.3	6557.1	6368.3	6790.4
52.5°	6325.0	6353.9	6283.0	6269.7	6447.7	6541.5	7212.5	7324.3	6913.1	7414.5
55°	6654.5	6688.2	6770.0	6862.5	7205.3	7327.9	8139.6	8051.8	7368.8	7955.6
57.5°	7121.1	7073.0	7199.2	7382.0	7936.4	8084.3	9037.8	8738.4	7735.5	8394.5
60°	7687.5	7694.7	7716.3	7947.2	8666.3	8856.3	9922.9	9387.8	7971.2	8663.9
62.5°	8368.1	8378.9	8423.4	8778.1	9646.3	9825.5	10865.6	9919.3	8079.5	8588.1
65°	8321.2	8366.9	8863.5	10076.8	11136.2	11312.9	11965.9	10292.0	7915.9	7895.5
67.5°	7580.4	7655.0	8485.9	11628.0	13382.4	13579.6	13295.8	10365.4	7210.1	6139.9
70°	6608.8	6635.3	7634.5	13022.9	15983.4	16183.0	14486.3	9558.5	5471.3	3424.7
72.5°	5161.0	5167.1	6339.5	13346.3	17395.1	17405.9	13551.9	7095.8	2942.5	1315.5
75°	3686.8	3650.7	4246.0	10823.5	15304.0	15426.6	10159.7	3328.5	1124.3	621.7
77.5°	1976.9	2016.6	2402.6	6418.8	10572.2	10781.4	5543.4	959.6	572.4	423.3
80°	610.9	644.5	984.8	2938.9	5988.3	6114.6	2055.0	426.9	399.2	301.8
82.5°	192.4	199.6	459.3	1234.9	2485.5	2543.2	595.2	241.7	273.0	199.6
85°	55.3	56.5	204.4	460.5	614.5	626.5	167.1	93.8	156.3	123.9
87.5°	6.0	19.2	77.0	77.0	54.1	52.9	18.0	20.4	44.5	15.6
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°
2378.5	0°	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5	2378.5
2389.3	2.5°	2383.3	2384.5	2368.9	2342.4	2313.6	2289.5	2259.5	2235.4	2218.6	2213.8
2411.0	5°	2400.1	2391.7	2347.2	2266.7	2170.5	2087.5	1994.9	1921.6	1873.5	1853.0
2433.8	7.5°	2425.4	2401.4	2304.0	2145.2	1961.2	1797.7	1631.8	1503.1	1421.3	1380.4
2455.5	10°	2447.0	2398.9	2231.8	1969.7	1688.3	1440.6	1216.9	1061.8	975.2	934.3
2480.7	12.5°	2467.5	2397.7	2138.0	1761.6	1380.4	1077.4	869.4	792.4	768.4	760.0
2521.6	15°	2506.0	2401.4	2020.2	1523.5	1073.8	814.1	738.3	737.1	741.9	739.5
2584.1	17.5°	2558.9	2405.0	1886.7	1271.0	828.5	717.9	714.3	725.1	732.3	728.7
2662.3	20°	2627.4	2419.4	1744.8	1020.9	711.9	693.8	702.2	711.9	717.9	711.9
2766.9	22.5°	2723.6	2444.6	1589.7	820.1	674.6	679.4	686.6	697.4	703.5	695.0
2900.4	25°	2841.5	2484.3	1437.0	713.1	656.6	662.6	673.4	685.4	692.6	684.2
3068.7	27.5°	2994.2	2548.1	1296.3	689.0	638.5	642.1	657.8	675.8	685.4	674.6
3308.0	30°	3215.4	2652.7	1174.8	699.8	627.7	619.3	640.9	666.2	677.0	667.4
3633.9	32.5°	3508.8	2800.6	1100.3	716.7	622.9	592.8	613.3	645.7	663.8	657.8
4059.6	35°	3893.6	3025.4	1071.4	735.9	619.3	565.2	579.6	614.5	645.7	651.7
4595.9	37.5°	4360.2	3338.1	1079.8	744.3	608.5	542.3	549.5	579.6	620.5	639.7
5199.5	40°	4890.5	3702.4	1127.9	735.9	596.4	523.1	524.3	547.1	583.2	612.1
5848.9	42.5°	5437.6	4128.1	1216.9	704.7	585.6	506.2	502.6	518.3	542.3	562.8
6497.0	45°	5958.3	4565.8	1304.7	661.4	572.4	489.4	481.0	487.0	491.8	500.2
7128.3	47.5°	6412.8	4873.6	1279.4	621.7	554.3	470.2	455.7	453.3	438.9	437.7
7692.3	50°	6726.7	4941.0	1136.3	582.0	527.9	448.5	425.7	411.2	386.0	374.0
8114.3	52.5°	6826.5	4675.2	928.3	542.3	484.6	419.7	387.2	364.4	333.1	322.3
8357.2	55°	6694.2	4154.6	741.9	494.2	424.5	381.2	345.1	315.0	289.8	276.6
8383.7	57.5°	6370.7	3492.0	586.8	437.7	360.7	337.9	301.8	271.8	250.1	236.9
8090.3	60°	5834.4	2772.9	464.2	370.4	307.8	291.0	253.7	234.5	215.2	199.6
7332.7	62.5°	5020.4	1979.3	364.4	293.4	257.3	238.1	216.4	202.0	179.2	157.5
5970.3	65°	3917.7	1210.9	281.4	215.2	206.8	197.2	184.0	170.8	143.1	121.5
3894.8	67.5°	2471.1	573.6	200.8	162.3	163.5	158.7	152.7	141.9	121.5	102.2
1744.8	70°	1088.2	277.8	132.3	123.9	121.5	121.5	126.3	122.7	103.4	85.4
606.0	72.5°	370.4	149.1	98.6	93.8	87.8	86.6	105.8	102.2	83.0	66.1
301.8	75°	193.6	99.8	72.1	67.3	52.9	63.7	84.2	79.4	58.9	43.3
199.6	77.5°	126.3	70.9	49.3	43.3	30.1	42.1	62.5	55.3	34.9	21.6
131.1	80°	79.4	46.9	28.9	20.4	14.4	22.8	33.7	24.0	13.2	4.8
77.0	82.5°	42.1	24.0	10.8	7.2	6.0	7.2	8.4	6.0	2.4	0.0
39.7	85°	16.8	8.4	3.6	2.4	1.2	0.0	2.4	1.2	0.0	0.0
7.2	87.5°	6.0	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>
2378.5
2222.2
1860.2
1386.5
935.5
757.6
738.3
727.5
710.7
693.8
683.0
674.6
666.2
657.8
651.7
644.5
621.7
571.2
505.0
436.5
375.2
321.1
276.6
234.5
196.0
153.9
117.8
99.8
81.8
62.5
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19.2
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