

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: P940528

Luminaire Tested: **GALN-SB3C-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940528
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-SB3C-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA 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: 16273 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

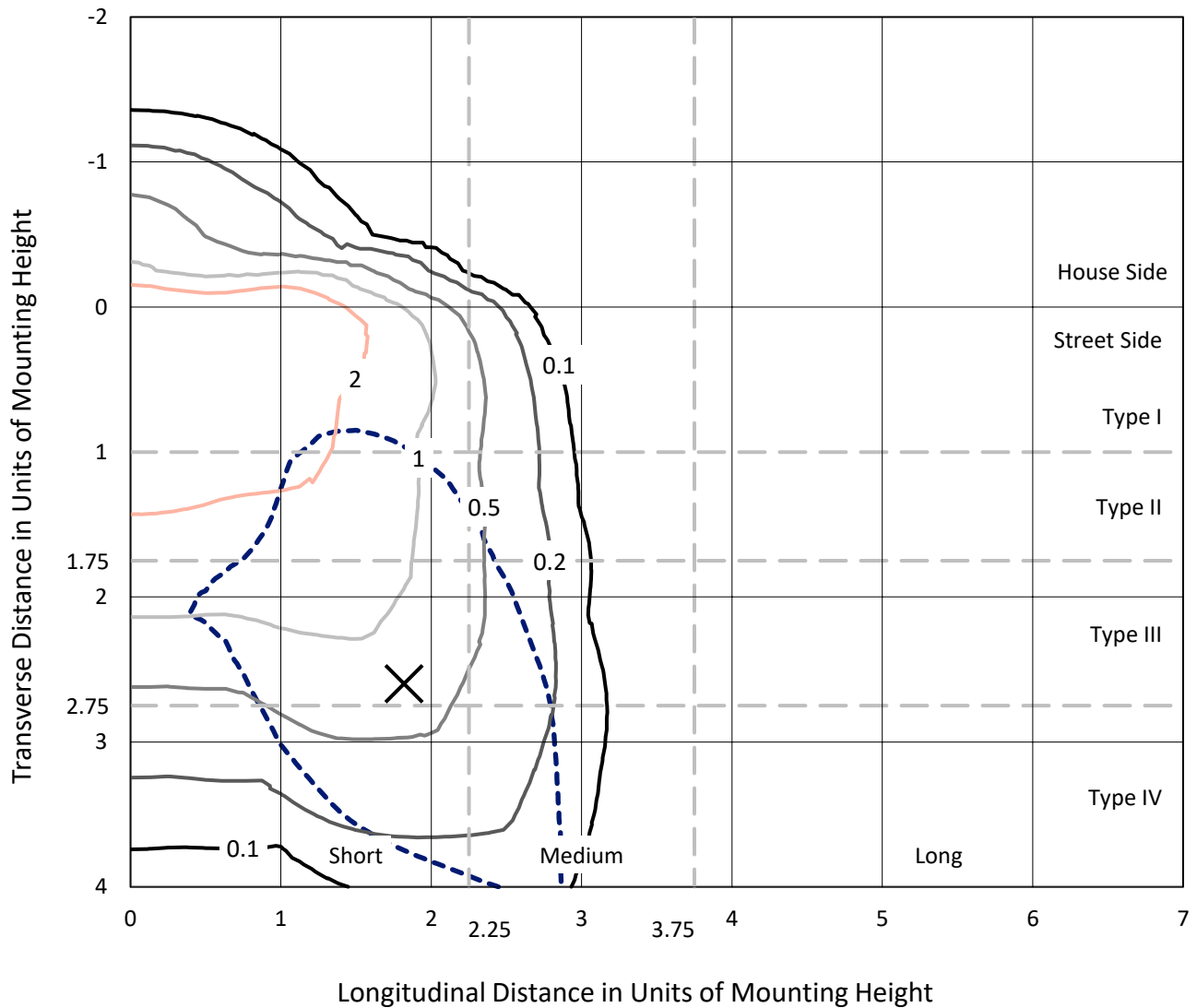
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

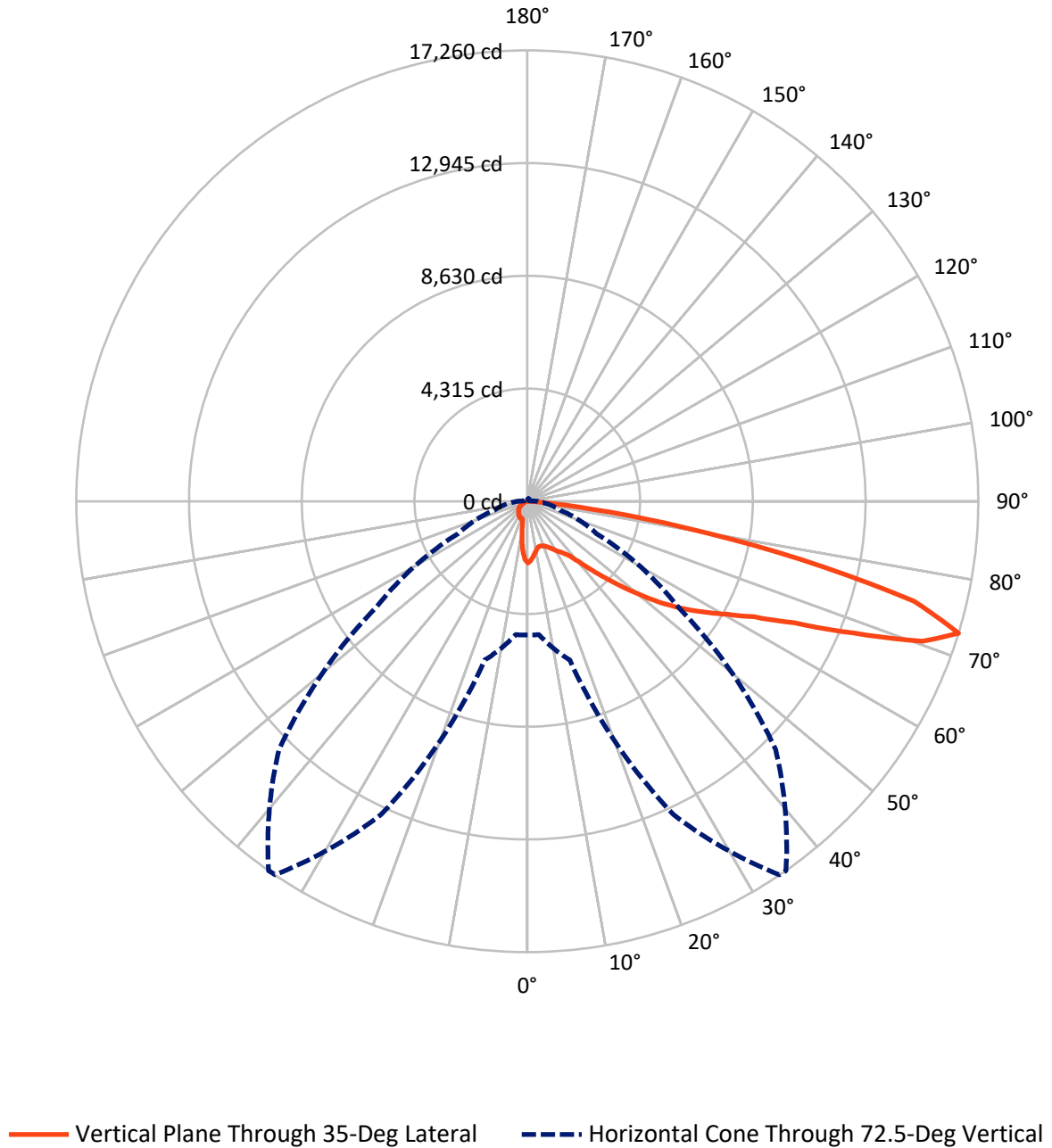
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	1831.4	0.0	1831.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14441.5	0.0	14441.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	16273.0	0.0	16273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	1.2
10°-20°	453.4	2.8
20°-30°	736.5	4.5
30°-40°	1228.9	7.6
40°-50°	2325.1	14.3
50°-60°	3694.5	22.7
60°-70°	4570.3	28.1
70°-80°	2841.0	17.5
80°-90°	229.6	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°	16273.0	100.0
0°-180°	16273.0	100.0

Coefficient of Utilization



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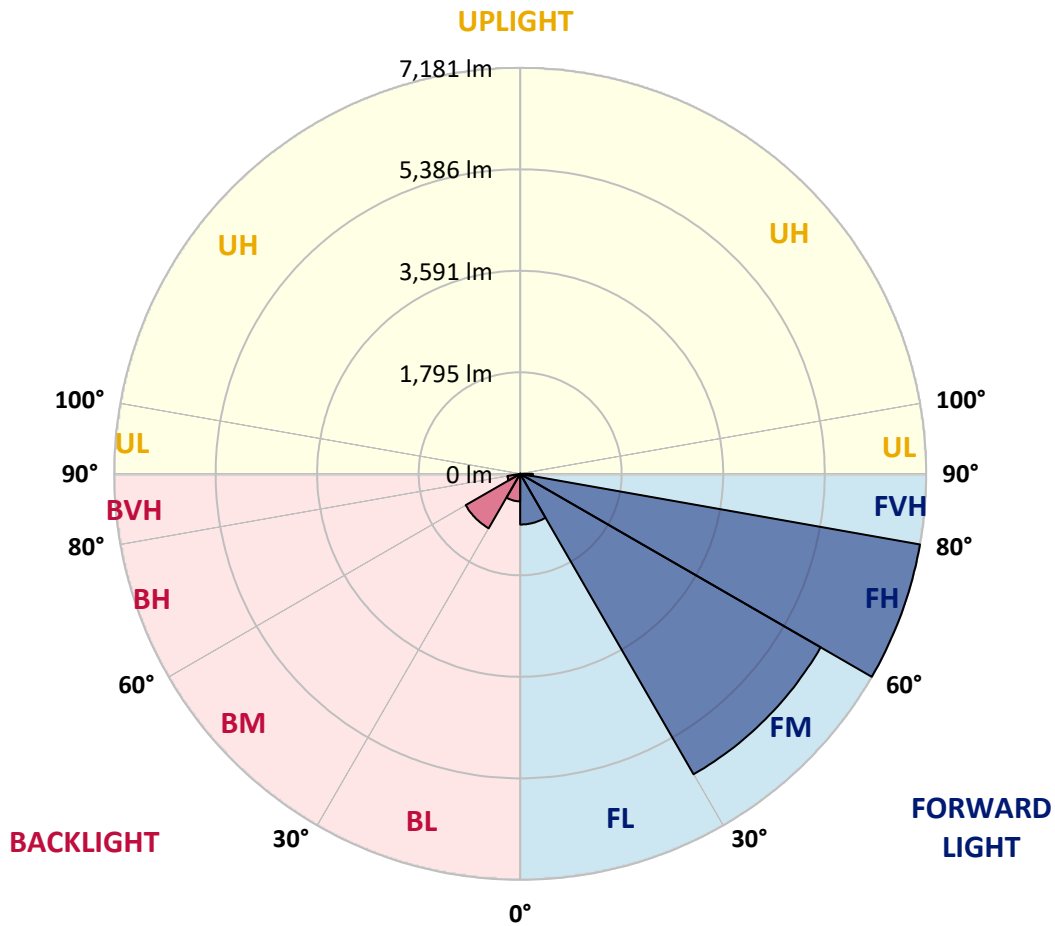
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.1	5.5			
FM (30°-60°)	6136.5	37.7			
FH (60°-80°)	7181.5	44.1			G3/7500
FVH (80°-90°)	226.5	1.4			G3/500
BL (0°-30°)	486.6	3.0	B1/500		
BM (30°-60°)	1111.9	6.8	B2/2500		
BH (60°-80°)	229.8	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°	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5
2.5°	2253.6	2272.7	2276.2	2282.2	2282.2	2289.3	2301.3	2318.0	2345.4	2359.7
5°	2077.1	2091.4	2109.3	2123.6	2151.0	2154.6	2201.1	2246.4	2309.6	2357.3
7.5°	1899.4	1916.1	1940.0	1974.6	2010.3	2021.1	2091.4	2167.7	2267.9	2357.3
10°	1774.2	1775.4	1796.9	1831.5	1888.7	1901.8	1987.7	2096.2	2221.4	2343.0
12.5°	1703.9	1712.2	1721.8	1748.0	1802.9	1811.2	1903.0	2030.6	2174.9	2334.7
15°	1703.9	1709.9	1715.8	1728.9	1773.1	1780.2	1861.3	1988.9	2151.0	2338.2
17.5°	1721.8	1731.3	1726.5	1742.0	1788.6	1793.3	1864.9	1976.9	2149.8	2360.9
20°	1764.7	1771.9	1762.3	1771.9	1818.4	1827.9	1901.8	1999.6	2170.1	2400.2
22.5°	1832.7	1836.2	1813.6	1820.7	1868.4	1880.4	1966.2	2064.0	2219.0	2463.4
25°	1918.5	1925.7	1891.1	1899.4	1944.8	1959.1	2058.0	2160.6	2296.5	2550.5
27.5°	2017.5	2021.1	1991.3	1990.1	2048.5	2068.8	2168.9	2279.8	2400.2	2660.2
30°	2130.8	2141.5	2112.9	2108.1	2182.0	2198.7	2297.7	2426.5	2552.9	2824.7
32.5°	2220.2	2228.5	2211.8	2223.8	2298.9	2312.0	2453.9	2633.9	2792.5	3058.4
35°	2349.0	2353.7	2315.6	2337.0	2422.9	2456.3	2667.3	2924.9	3094.2	3351.7
37.5°	2815.2	2815.2	2653.0	2546.9	2629.2	2659.0	2959.5	3290.9	3466.2	3745.2
40°	3460.3	3449.5	3212.2	2995.2	2984.5	3042.9	3375.6	3752.4	3946.7	4217.4
42.5°	4148.2	4131.6	3808.4	3593.8	3558.0	3578.3	3856.1	4321.1	4519.1	4793.3
45°	4758.7	4754.0	4458.3	4169.7	4105.3	4169.7	4455.9	4986.5	5128.4	5416.9
47.5°	5270.3	5270.3	5054.4	4866.1	4832.7	4870.8	5267.9	5724.6	5711.4	6081.1
50°	5859.3	5854.5	5649.4	5568.4	5602.9	5656.6	6202.7	6502.0	6314.8	6733.3
52.5°	6271.9	6300.5	6230.1	6217.0	6393.5	6486.5	7151.8	7262.7	6854.9	7352.1
55°	6598.6	6631.9	6713.0	6804.8	7144.7	7266.3	8071.1	7984.1	7306.8	7888.7
57.5°	7061.2	7013.5	7138.7	7319.9	7869.6	8016.3	8961.8	8664.9	7670.5	8323.9
60°	7622.8	7630.0	7651.4	7880.4	8593.4	8781.8	9839.4	9308.8	7904.2	8591.0
62.5°	8297.7	8308.4	8352.5	8704.3	9565.2	9742.8	10774.2	9835.8	8011.5	8515.9
65°	8251.2	8296.5	8788.9	9992.0	11042.5	11217.8	11865.3	10205.5	7849.4	7829.1
67.5°	7516.7	7590.6	8414.5	11530.2	13269.9	13465.4	13184.0	10278.2	7149.4	6088.2
70°	6553.3	6579.5	7570.3	12913.3	15849.0	16046.9	14364.5	9478.1	5425.3	3395.9
72.5°	5117.6	5123.6	6286.2	13234.1	17248.8	17259.5	13438.0	7036.2	2917.7	1304.5
75°	3655.8	3620.0	4210.3	10732.5	15175.3	15296.9	10074.3	3300.5	1114.9	616.5
77.5°	1960.3	1999.6	2382.4	6364.9	10483.3	10690.8	5496.8	951.5	567.6	419.7
80°	605.7	639.1	976.5	2914.1	5938.0	6063.2	2037.8	423.3	395.9	299.3
82.5°	190.8	197.9	455.5	1224.6	2464.6	2521.9	590.2	239.7	270.7	197.9
85°	54.8	56.0	202.7	456.7	609.3	621.2	165.7	93.0	155.0	122.8
87.5°	6.0	19.1	76.3	76.3	53.7	52.5	17.9	20.3	44.1	15.5
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°
2358.5	0°	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5
2369.2	2.5°	2363.3	2364.5	2349.0	2322.7	2294.1	2270.3	2240.5	2216.6	2199.9	2195.1
2390.7	5°	2380.0	2371.6	2327.5	2247.6	2152.2	2070.0	1978.1	1905.4	1857.7	1837.4
2413.4	7.5°	2405.0	2381.2	2284.6	2127.2	1944.8	1782.6	1618.0	1490.5	1409.4	1368.8
2434.8	10°	2426.5	2378.8	2213.0	1953.1	1674.1	1428.5	1206.7	1052.9	967.0	926.5
2459.9	12.5°	2446.7	2377.6	2120.0	1746.8	1368.8	1068.4	862.1	785.8	761.9	753.6
2500.4	15°	2484.9	2381.2	2003.2	1510.7	1064.8	807.2	732.1	730.9	735.7	733.3
2562.4	17.5°	2537.4	2384.7	1870.8	1260.3	821.5	711.8	708.3	719.0	726.2	722.6
2639.9	20°	2605.3	2399.0	1730.1	1012.3	705.9	688.0	696.3	705.9	711.8	705.9
2743.6	22.5°	2700.7	2424.1	1576.3	813.2	668.9	673.7	680.8	691.6	697.5	689.2
2876.0	25°	2817.6	2463.4	1424.9	707.1	651.0	657.0	667.7	679.6	686.8	678.5
3042.9	27.5°	2969.0	2526.6	1285.4	683.2	633.1	636.7	652.2	670.1	679.6	668.9
3280.2	30°	3188.4	2630.4	1164.9	694.0	622.4	614.1	635.5	660.6	671.3	661.8
3603.3	32.5°	3479.3	2777.0	1091.0	710.7	617.6	587.8	608.1	640.3	658.2	652.2
4025.4	35°	3860.9	3000.0	1062.4	729.7	614.1	560.4	574.7	609.3	640.3	646.3
4557.2	37.5°	4323.5	3310.0	1070.7	738.1	603.3	537.8	544.9	574.7	615.3	634.3
5155.8	40°	4849.4	3671.3	1118.4	729.7	591.4	518.7	519.9	542.5	578.3	606.9
5799.7	42.5°	5391.9	4093.4	1206.7	698.7	580.7	502.0	498.4	513.9	537.8	558.0
6442.4	45°	5908.2	4527.4	1293.7	655.8	567.6	485.3	476.9	482.9	487.7	496.0
7068.4	47.5°	6358.9	4832.7	1268.7	616.5	549.7	466.2	451.9	449.5	435.2	434.0
7627.6	50°	6670.1	4899.4	1126.8	577.1	523.4	444.8	422.1	407.8	382.8	370.8
8046.1	52.5°	6769.1	4635.9	920.5	537.8	480.5	416.1	383.9	361.3	330.3	319.6
8287.0	55°	6637.9	4119.6	735.7	490.1	420.9	378.0	342.2	312.4	287.4	274.2
8313.2	57.5°	6317.2	3462.6	581.9	434.0	357.7	335.1	299.3	269.5	248.0	234.9
8022.2	60°	5785.4	2749.6	460.3	367.2	305.2	288.6	251.6	232.5	213.4	197.9
7271.1	62.5°	4978.1	1962.6	361.3	290.9	255.2	236.1	214.6	200.3	177.7	156.2
5920.1	65°	3884.7	1200.7	279.0	213.4	205.1	195.5	182.4	169.3	141.9	120.4
3862.1	67.5°	2450.3	568.8	199.1	161.0	162.2	157.4	151.4	140.7	120.4	101.4
1730.1	70°	1079.1	275.4	131.2	122.8	120.4	120.4	125.2	121.6	102.5	84.7
601.0	72.5°	367.2	147.9	97.8	93.0	87.0	85.9	104.9	101.4	82.3	65.6
299.3	75°	192.0	99.0	71.5	66.8	52.5	63.2	83.5	78.7	58.4	42.9
197.9	77.5°	125.2	70.3	48.9	42.9	29.8	41.7	62.0	54.8	34.6	21.5
130.0	80°	78.7	46.5	28.6	20.3	14.3	22.7	33.4	23.8	13.1	4.8
76.3	82.5°	41.7	23.8	10.7	7.2	6.0	7.2	8.3	6.0	2.4	0.0
39.3	85°	16.7	8.3	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

180°
2358.5
2203.5
1844.6
1374.8
927.7
751.2
732.1
721.4
704.7
688.0
677.3
668.9
660.6
652.2
646.3
639.1
616.5
566.4
500.8
432.8
372.0
318.4
274.2
232.5
194.4
152.6
116.9
99.0
81.1
62.0
39.3
19.1
3.6
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