

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: P941898

Luminaire Tested: **GALN-SB5C-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941898
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-SB5C-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 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: 17435 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

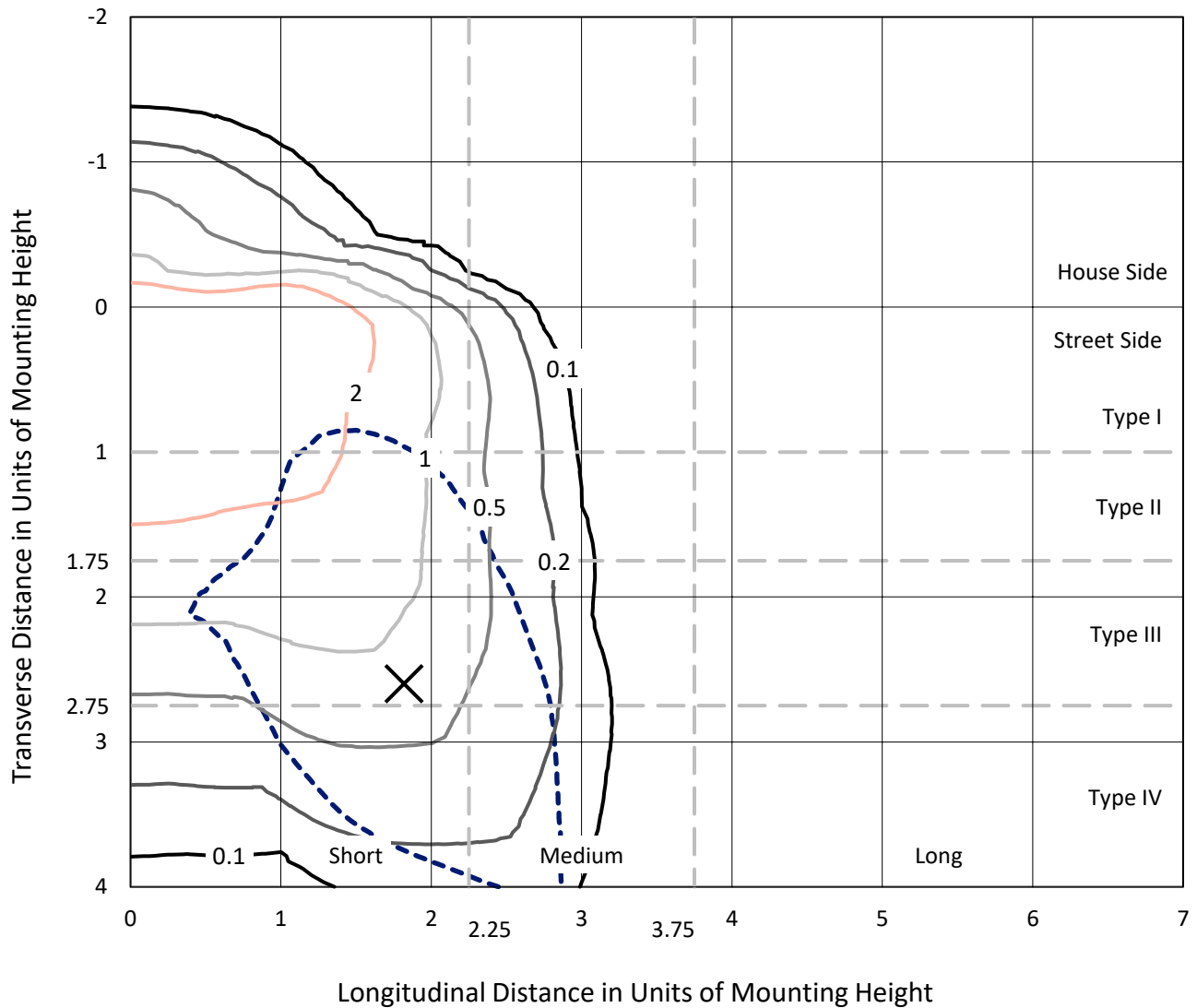
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

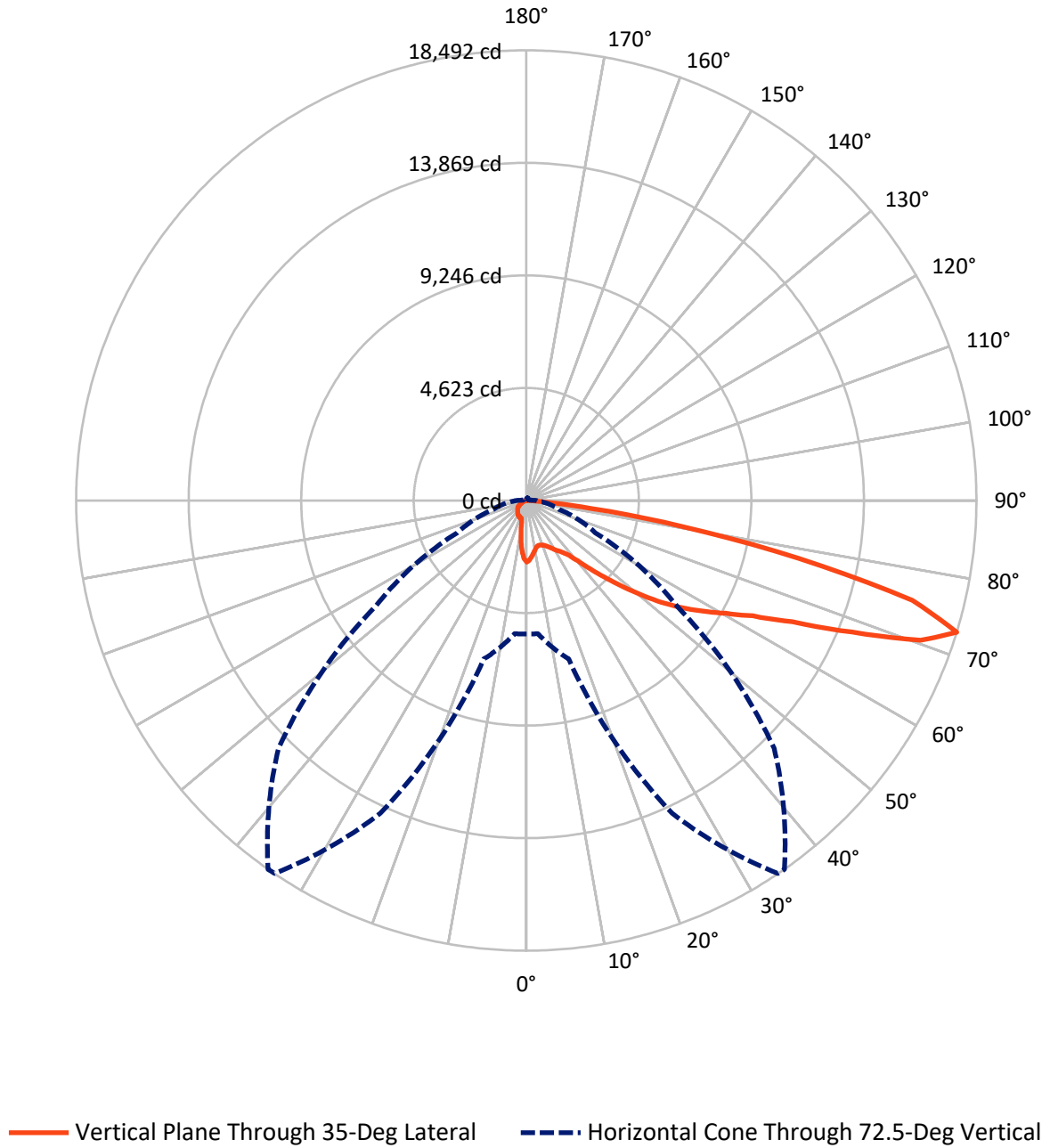
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1962.2	0.0	1962.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	15472.8	0.0	15472.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	17435.0	0.0	17435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	1.2
10°-20°	485.8	2.8
20°-30°	789.1	4.5
30°-40°	1316.6	7.6
40°-50°	2491.1	14.3
50°-60°	3958.3	22.7
60°-70°	4896.7	28.1
70°-80°	3043.8	17.5
80°-90°	246.0	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°	17435.0	100.0
0°-180°	17435.0	100.0

Coefficient of Utilization



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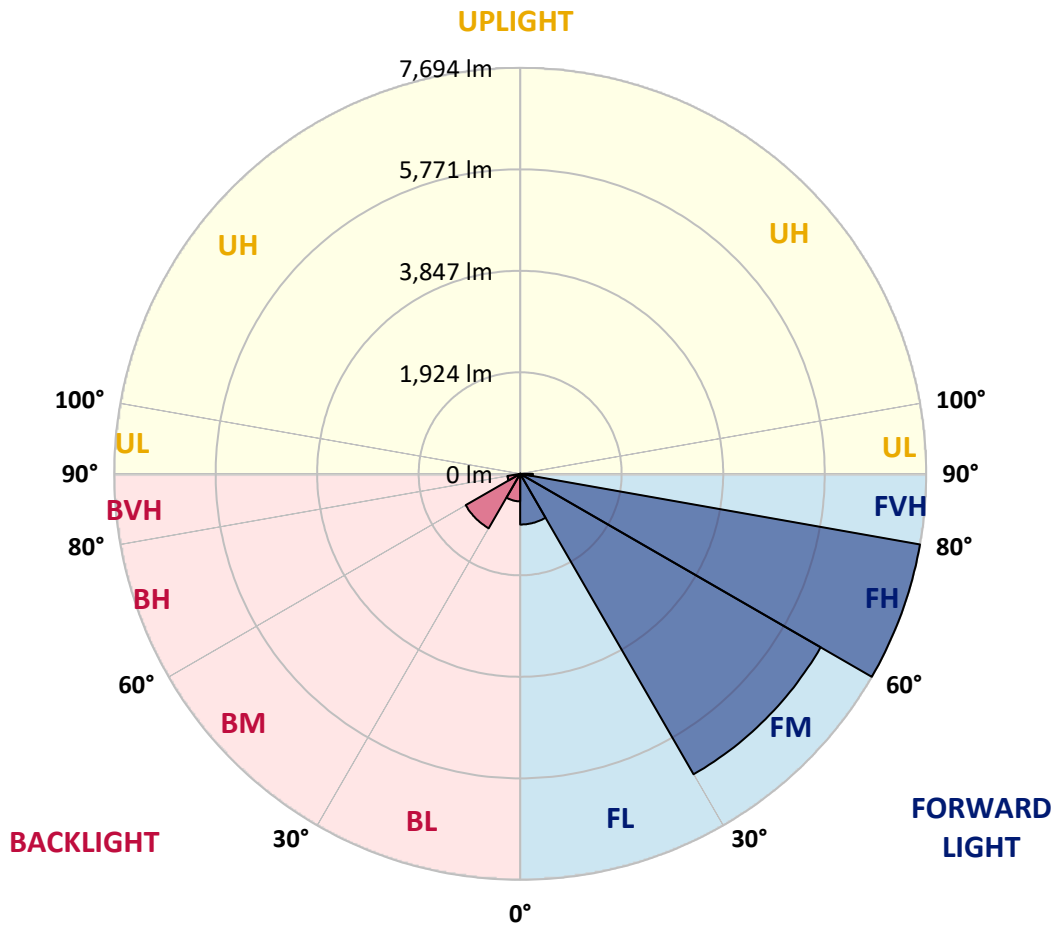
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.1	5.5			
FM (30°-60°)	6574.7	37.7			
FH (60°-80°)	7694.3	44.1			G4/12000
FVH (80°-90°)	242.6	1.4			G3/500
BL (0°-30°)	521.4	3.0	B2/1000		
BM (30°-60°)	1191.2	6.8	B2/2500		
BH (60°-80°)	246.2	1.4	B1/500		G1/500
BVH (80°-90°)	3.4	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°	34°	35°	45°	55°	65°	75°
0°	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9
2.5°	2414.5	2434.9	2438.8	2445.2	2445.2	2452.8	2465.6	2483.5	2512.9	2528.2
5°	2225.4	2240.8	2259.9	2275.2	2304.6	2308.5	2358.3	2406.8	2474.5	2525.6
7.5°	2035.1	2053.0	2078.5	2115.6	2153.9	2165.4	2240.8	2322.5	2429.8	2525.6
10°	1900.9	1902.2	1925.2	1962.3	2023.6	2037.6	2129.6	2245.9	2380.0	2510.3
12.5°	1825.6	1834.5	1844.7	1872.8	1931.6	1940.5	2038.9	2175.6	2330.2	2501.4
15°	1825.6	1832.0	1838.3	1852.4	1899.7	1907.3	1994.2	2130.9	2304.6	2505.2
17.5°	1844.7	1854.9	1849.8	1866.4	1916.3	1921.4	1998.0	2118.1	2303.4	2529.5
20°	1890.7	1898.4	1888.2	1898.4	1948.2	1958.4	2037.6	2142.4	2325.1	2571.6
22.5°	1963.5	1967.4	1943.1	1950.8	2001.9	2014.6	2106.6	2211.4	2377.4	2639.3
25°	2055.5	2063.2	2026.1	2035.1	2083.6	2098.9	2205.0	2314.8	2460.5	2732.6
27.5°	2161.5	2165.4	2133.4	2132.2	2194.8	2216.5	2323.8	2442.6	2571.6	2850.1
30°	2282.9	2294.4	2263.7	2258.6	2337.8	2355.7	2461.8	2599.7	2735.2	3026.4
32.5°	2378.7	2387.7	2369.8	2382.6	2463.0	2477.1	2629.1	2822.0	2991.9	3276.8
35°	2516.7	2521.8	2480.9	2503.9	2595.9	2631.7	2857.8	3133.7	3315.1	3591.1
37.5°	3016.2	3016.2	2842.5	2728.8	2816.9	2848.8	3170.8	3525.9	3713.7	4012.7
40°	3707.3	3695.8	3441.6	3209.1	3197.6	3260.2	3616.6	4020.3	4228.6	4518.6
42.5°	4444.5	4426.6	4080.4	3850.4	3812.1	3833.8	4131.5	4629.7	4841.8	5135.6
45°	5098.5	5093.4	4776.6	4467.5	4398.5	4467.5	4774.1	5342.5	5494.6	5803.7
47.5°	5646.6	5646.6	5415.4	5213.5	5177.8	5218.6	5644.0	6133.3	6119.3	6515.3
50°	6277.7	6272.6	6052.8	5966.0	6003.0	6060.5	6645.6	6966.3	6765.7	7214.1
52.5°	6719.7	6750.4	6675.0	6660.9	6850.0	6949.7	7662.5	7781.3	7344.4	7877.1
55°	7069.7	7105.5	7192.4	7290.8	7654.8	7785.1	8647.5	8554.2	7828.6	8452.0
57.5°	7565.4	7514.3	7648.5	7842.6	8431.6	8588.7	9601.8	9283.7	8218.2	8918.3
60°	8167.1	8174.8	8197.8	8443.1	9207.0	9408.9	10542.0	9973.5	8468.6	9204.5
62.5°	8890.2	8901.7	8949.0	9325.8	10248.2	10438.5	11543.6	10538.2	8583.6	9124.0
65°	8840.4	8888.9	9416.5	10705.5	11831.0	12018.8	12712.5	10934.2	8409.9	8388.1
67.5°	8053.4	8132.6	9015.4	12353.5	14217.4	14426.9	14125.4	11012.1	7660.0	6523.0
70°	7021.2	7049.3	8110.9	13835.4	16980.7	17192.7	15390.2	10154.9	5812.7	3638.4
72.5°	5483.1	5489.5	6735.0	14179.1	18480.5	18492.0	14397.5	7538.6	3126.1	1397.6
75°	3916.8	3878.5	4510.9	11498.9	16258.9	16389.2	10793.7	3536.1	1194.5	660.5
77.5°	2100.2	2142.4	2552.5	6819.4	11231.9	11454.2	5889.3	1019.5	608.1	449.7
80°	649.0	684.7	1046.3	3122.2	6362.0	6496.1	2183.3	453.5	424.1	320.7
82.5°	204.4	212.1	488.0	1312.0	2640.6	2701.9	632.4	256.8	290.0	212.1
85°	58.8	60.0	217.2	489.3	652.8	665.6	177.6	99.6	166.1	131.6
87.5°	6.4	20.4	81.8	81.8	57.5	56.2	19.2	21.7	47.3	16.6
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°
2526.9	0°	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9	2526.9
2538.4	2.5°	2532.0	2533.3	2516.7	2488.6	2457.9	2432.4	2400.4	2374.9	2357.0	2351.9
2561.4	5°	2549.9	2541.0	2493.7	2408.1	2305.9	2217.8	2119.4	2041.5	1990.4	1968.6
2585.7	7.5°	2576.7	2551.2	2447.7	2279.1	2083.6	1909.9	1733.6	1596.9	1510.0	1466.6
2608.7	10°	2599.7	2548.6	2371.1	2092.6	1793.6	1530.5	1292.8	1128.0	1036.1	992.6
2635.5	12.5°	2621.5	2547.4	2271.4	1871.6	1466.6	1144.6	923.6	841.9	816.3	807.4
2678.9	15°	2662.3	2551.2	2146.2	1618.6	1140.8	864.9	784.4	783.1	788.2	785.7
2745.4	17.5°	2718.5	2555.0	2004.4	1350.3	880.2	762.7	758.8	770.3	778.0	774.2
2828.4	20°	2791.4	2570.4	1853.7	1084.6	756.3	737.1	746.1	756.3	762.7	756.3
2939.6	22.5°	2893.6	2597.2	1688.9	871.3	716.7	721.8	729.5	741.0	747.3	738.4
3081.4	25°	3018.8	2639.3	1526.6	757.6	697.5	703.9	715.4	728.2	735.8	726.9
3260.2	27.5°	3181.0	2707.0	1377.2	732.0	678.4	682.2	698.8	718.0	728.2	716.7
3514.4	30°	3416.1	2818.2	1248.1	743.5	666.9	657.9	680.9	707.7	719.2	709.0
3860.6	32.5°	3727.8	2975.3	1168.9	761.4	661.8	629.8	651.5	686.0	705.2	698.8
4312.9	35°	4136.6	3214.2	1138.3	781.8	657.9	600.4	615.8	652.8	686.0	692.4
4882.6	37.5°	4632.3	3546.4	1147.2	790.8	646.4	576.2	583.8	615.8	659.2	679.6
5524.0	40°	5195.6	3933.5	1198.3	781.8	633.6	555.7	557.0	581.3	619.6	650.3
6213.8	42.5°	5776.9	4385.7	1292.8	748.6	622.1	537.8	534.0	550.6	576.2	597.9
6902.4	45°	6330.1	4850.7	1386.1	702.6	608.1	519.9	511.0	517.4	522.5	531.4
7573.1	47.5°	6813.0	5177.8	1359.3	660.5	588.9	499.5	484.2	481.6	466.3	465.0
8172.2	50°	7146.4	5249.3	1207.2	618.3	560.8	476.5	452.2	436.9	410.1	397.3
8620.6	52.5°	7252.4	4967.0	986.2	576.2	514.8	445.9	411.4	387.1	353.9	342.4
8878.7	55°	7111.9	4413.8	788.2	525.1	451.0	405.0	366.6	334.7	307.9	293.8
8906.8	57.5°	6768.3	3709.9	623.4	465.0	383.3	359.0	320.7	288.7	265.7	251.7
8595.1	60°	6198.5	2945.9	493.1	393.5	327.0	309.2	269.6	249.1	228.7	212.1
7790.3	62.5°	5333.6	2102.8	387.1	311.7	273.4	252.9	230.0	214.6	190.3	167.4
6342.8	65°	4162.1	1286.5	298.9	228.7	219.7	209.5	195.5	181.4	152.0	129.0
4137.9	67.5°	2625.3	609.4	213.3	172.5	173.7	168.6	162.2	150.7	129.0	108.6
1853.7	70°	1156.1	295.1	140.5	131.6	129.0	129.0	134.1	130.3	109.9	90.7
643.9	72.5°	393.5	158.4	104.8	99.6	93.3	92.0	112.4	108.6	88.1	70.3
320.7	75°	205.7	106.0	76.7	71.5	56.2	67.7	89.4	84.3	62.6	46.0
212.1	77.5°	134.1	75.4	52.4	46.0	31.9	44.7	66.4	58.8	37.0	23.0
139.2	80°	84.3	49.8	30.7	21.7	15.3	24.3	35.8	25.6	14.1	5.1
81.8	82.5°	44.7	25.6	11.5	7.7	6.4	7.7	8.9	6.4	2.6	0.0
42.2	85°	17.9	8.9	3.8	2.6	1.3	0.0	2.6	1.3	0.0	0.0
7.7	87.5°	6.4	1.3	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>
2526.9
2360.8
1976.3
1473.0
993.9
804.8
784.4
772.9
755.0
737.1
725.6
716.7
707.7
698.8
692.4
684.7
660.5
606.8
536.6
463.7
398.6
341.1
293.8
249.1
208.2
163.5
125.2
106.0
86.9
66.4
42.2
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