

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: P941896

Luminaire Tested: **GALN-SB5C-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18060 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

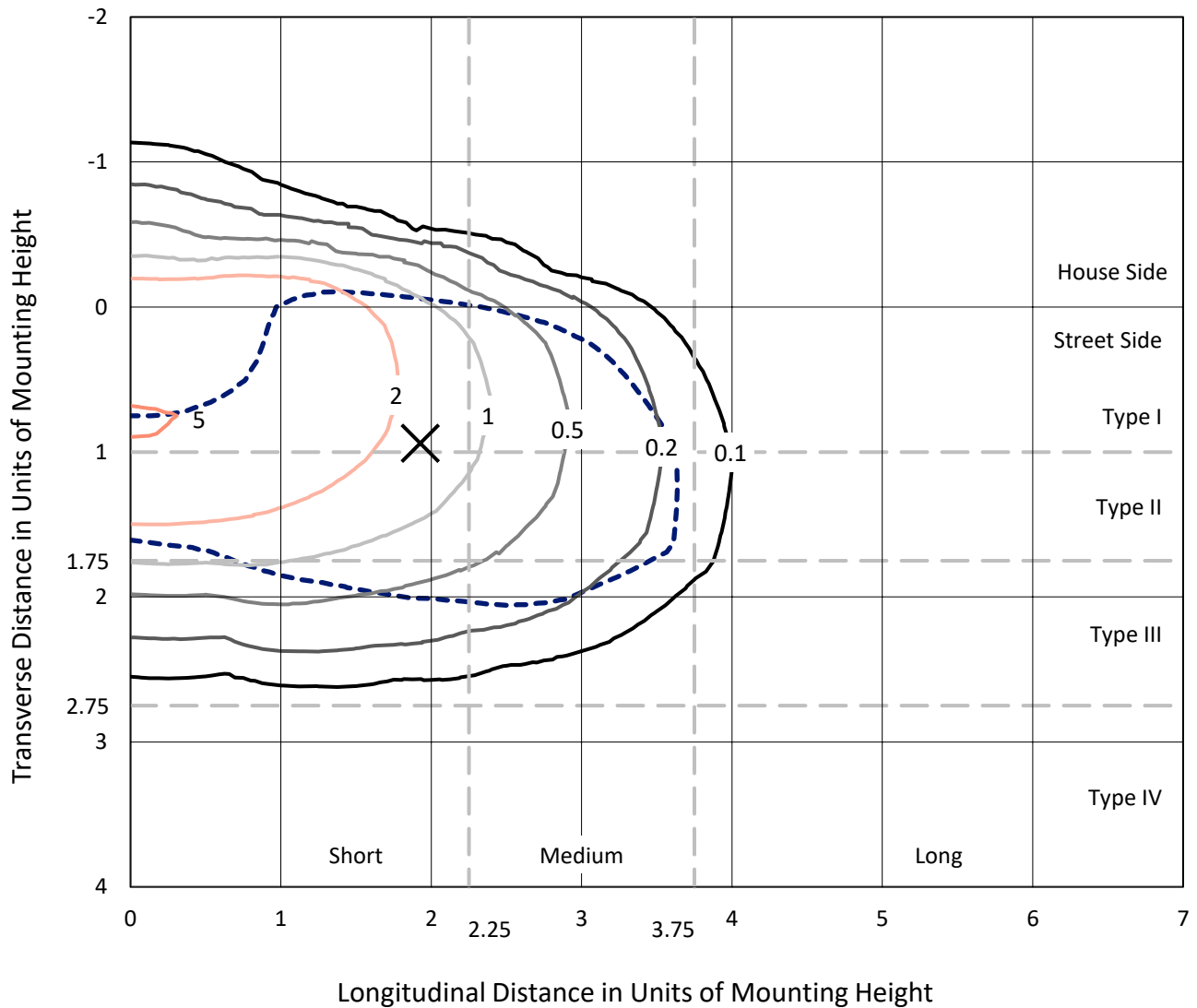
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

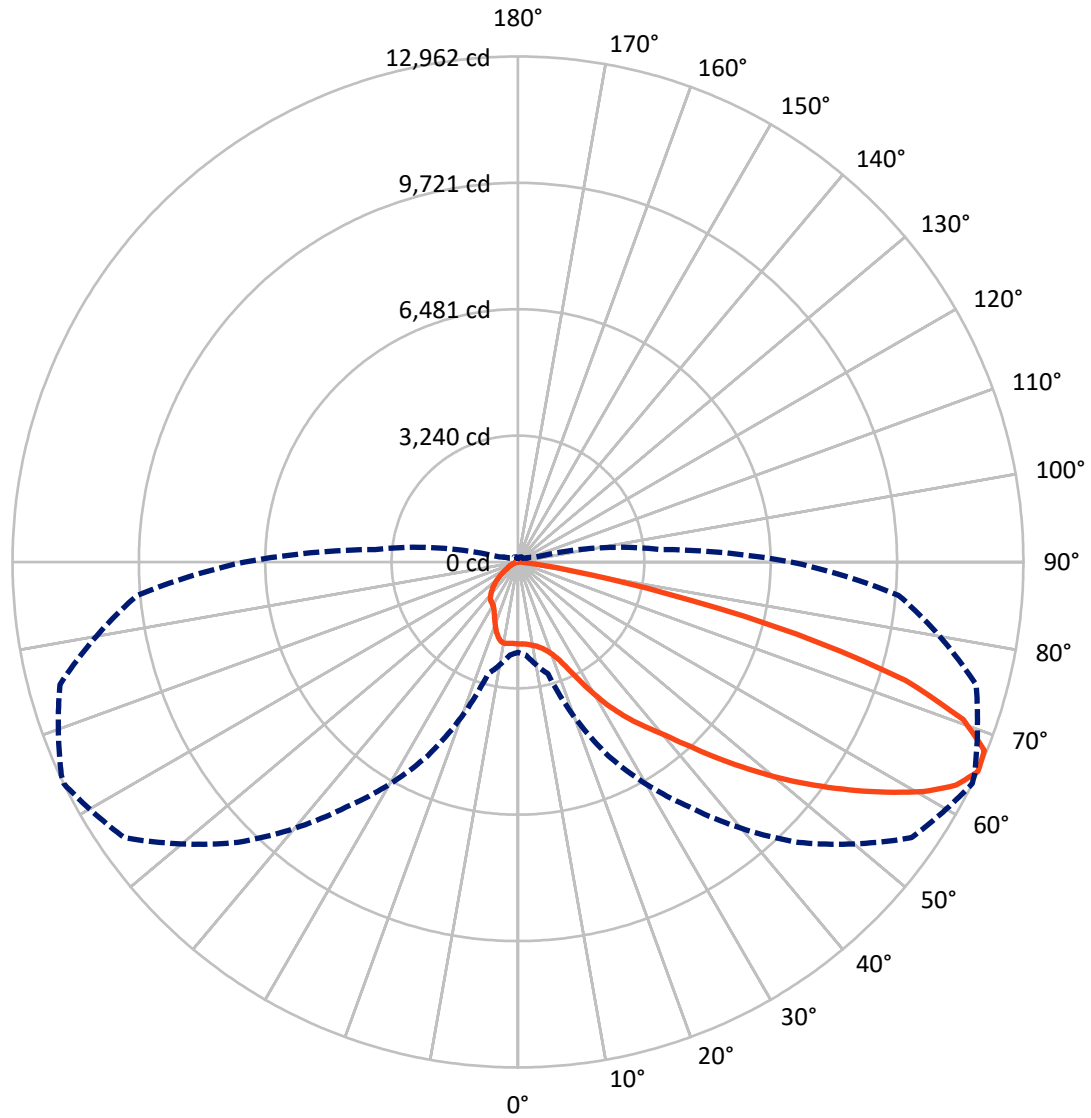
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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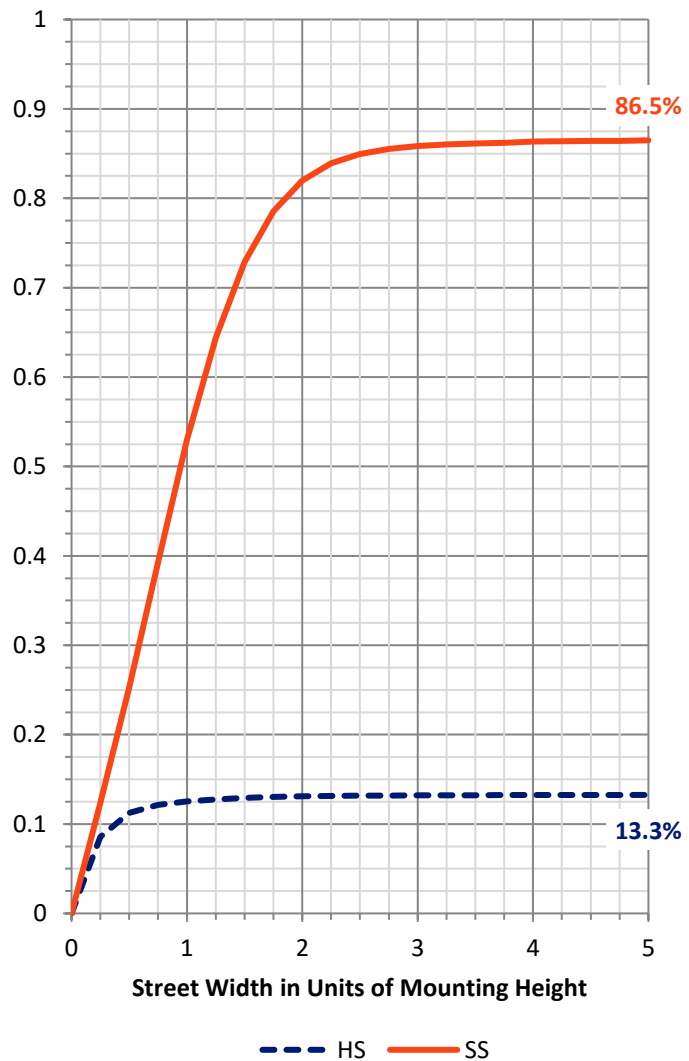
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2415.2	0.0	2415.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15644.8	0.0	15644.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	18060.0	0.0	18060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	1.1
10°-20°	525.6	2.9
20°-30°	996.0	5.5
30°-40°	2015.5	11.2
40°-50°	3433.4	19.0
50°-60°	4669.2	25.9
60°-70°	4384.6	24.3
70°-80°	1756.7	9.7
80°-90°	85.1	0.5
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°	18060.0	100.0
0°-180°	18060.0	100.0

Coefficient of Utilization



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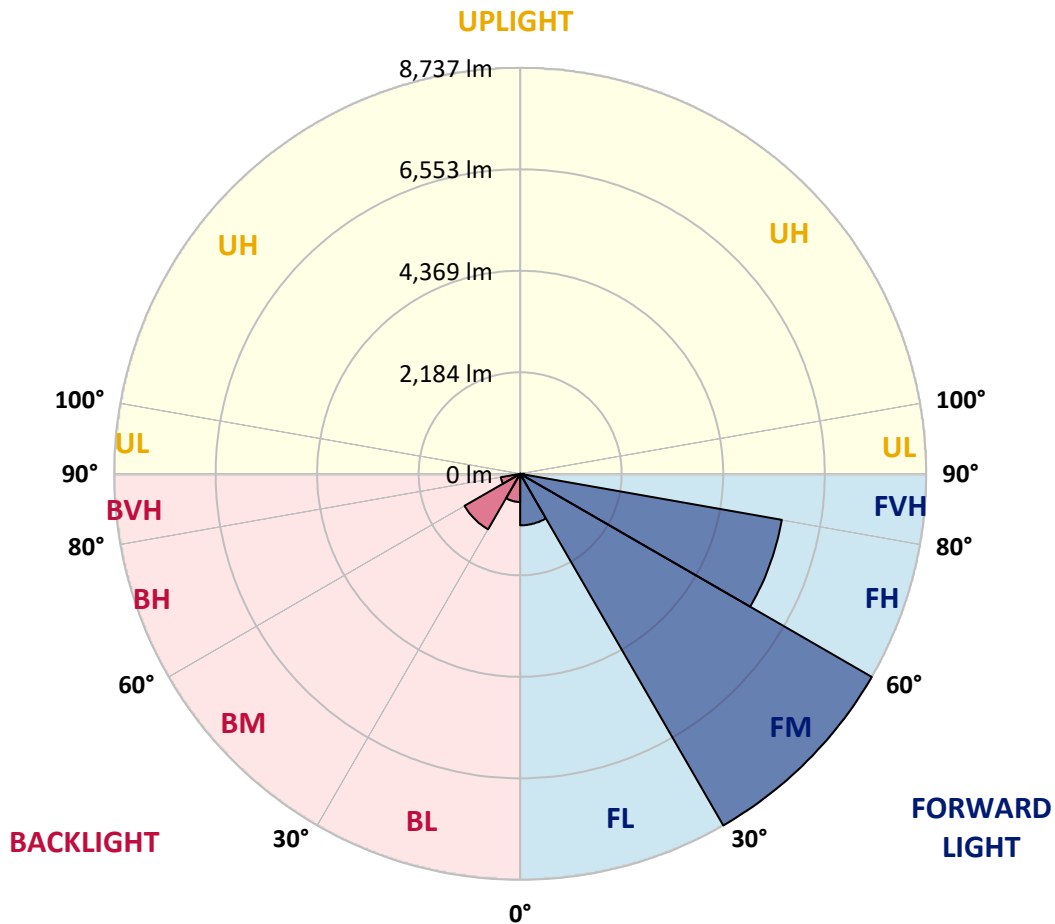
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1109.1	6.1			
FM (30°-60°)	8737.4	48.4			
FH (60°-80°)	5717.4	31.7			G3/7500
FVH (80°-90°)	80.9	0.4			G1/100
BL (0°-30°)	606.4	3.4	B2/1000		
BM (30°-60°)	1380.7	7.6	B2/2500		
BH (60°-80°)	423.9	2.3	B1/500		G1/500
BVH (80°-90°)	4.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6
2.5°	2093.3	2107.8	2104.2	2100.6	2099.4	2101.8	2103.0	2101.8	2101.8	2101.8
5°	2053.3	2065.5	2065.5	2073.9	2086.0	2100.6	2111.5	2113.9	2116.3	2119.9
7.5°	1977.1	1986.8	1994.0	2021.9	2052.1	2090.9	2123.6	2140.5	2142.9	2156.3
10°	1925.0	1937.1	1949.2	1978.3	2021.9	2080.0	2135.7	2176.8	2182.9	2214.4
12.5°	1922.6	1934.7	1950.4	1981.9	2032.8	2094.5	2162.3	2221.6	2232.5	2278.5
15°	1948.0	1962.5	1977.1	2015.8	2070.3	2145.4	2218.0	2291.9	2302.8	2368.1
17.5°	2000.1	2019.4	2030.3	2069.1	2127.2	2210.7	2306.4	2391.1	2400.8	2477.1
20°	2103.0	2126.0	2129.6	2161.1	2218.0	2307.6	2421.4	2526.7	2538.8	2626.0
22.5°	2316.1	2348.8	2319.7	2335.4	2386.3	2475.9	2599.4	2732.6	2749.5	2848.8
25°	2691.4	2737.4	2662.3	2635.7	2657.5	2750.7	2905.7	3074.0	3093.3	3173.2
27.5°	3428.7	3369.4	3255.6	3144.2	3078.8	3132.1	3306.4	3514.7	3538.9	3616.4
30°	4238.7	4186.6	4032.8	3785.9	3630.9	3622.4	3783.4	4015.9	4043.7	4117.6
32.5°	5049.8	5000.2	4833.1	4529.2	4260.5	4127.3	4238.7	4496.5	4511.1	4558.3
35°	5847.7	5796.8	5629.8	5318.6	4988.1	4685.4	4663.6	4954.2	4959.0	5008.7
37.5°	6650.4	6608.0	6430.0	6124.9	5799.3	5381.6	5179.4	5387.6	5393.7	5442.1
40°	7223.0	7241.2	7118.9	6882.8	6603.2	6146.7	5758.1	5848.9	5812.6	5893.7
42.5°	7714.6	7750.9	7644.4	7525.7	7363.5	6961.5	6474.8	6459.1	6401.0	6444.6
45°	8139.5	8169.8	8074.2	8046.3	8042.7	7760.6	7258.2	7163.7	7082.6	7074.1
47.5°	8295.7	8353.8	8395.0	8488.2	8669.8	8551.2	8068.1	7921.6	7830.8	7764.2
50°	8355.0	8416.8	8557.2	8828.4	9258.2	9309.1	8874.4	8709.8	8598.4	8477.3
52.5°	8275.1	8385.3	8574.2	9030.6	9654.1	9916.8	9648.1	9504.0	9376.9	9179.5
55°	7804.2	7914.3	8300.6	9028.2	9851.5	10343.0	10379.3	10315.2	10172.3	9861.2
57.5°	6811.4	6974.8	7586.2	8720.7	9847.8	10709.9	11096.1	11142.1	10982.3	10536.7
60°	5436.0	5657.6	6403.4	8039.1	9544.0	10908.4	11724.4	11954.5	11785.0	11202.6
62.5°	3793.1	4049.8	4755.6	6971.2	8849.0	10765.5	12183.3	12608.2	12479.9	11798.3
65°	2313.6	2396.0	2965.0	5485.7	7667.4	10167.5	12324.9	12961.8	12919.4	12162.7
67.5°	1541.2	1610.2	1773.7	3761.6	5951.8	8972.5	11985.9	12900.0	12912.1	12103.4
70°	928.6	987.9	1094.5	2187.7	3857.3	7102.0	10936.3	12113.1	12183.3	11310.4
72.5°	382.6	422.5	519.4	991.6	1997.7	4507.4	8708.6	10399.9	10563.4	9510.1
75°	216.7	237.3	305.1	497.6	866.9	2100.6	5275.0	7382.9	7623.8	6554.7
77.5°	144.1	153.8	197.3	322.0	487.9	716.7	2254.3	3846.4	4306.5	3580.0
80°	96.9	105.3	135.6	215.5	317.2	307.5	717.9	1425.0	1753.1	1230.1
82.5°	65.4	66.6	96.9	141.7	201.0	148.9	211.9	443.1	556.9	355.9
85°	37.5	36.3	71.4	82.3	89.6	61.7	64.2	133.2	174.3	150.1
87.5°	4.8	7.3	27.8	21.8	12.1	13.3	13.3	23.0	33.9	36.3
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°
2100.6	0°	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6	2100.6
2103.0	2.5°	2103.0	2101.8	2098.1	2094.5	2086.0	2081.2	2083.6	2081.2	2080.0	2081.2
2118.7	5°	2118.7	2115.1	2105.4	2093.3	2076.4	2055.8	2042.5	2023.1	2004.9	1994.0
2161.1	7.5°	2161.1	2157.5	2144.2	2110.3	2055.8	1969.8	1891.1	1822.1	1770.0	1739.8
2228.9	10°	2228.9	2222.8	2202.3	2127.2	1984.3	1796.7	1640.5	1511.0	1426.2	1386.3
2308.8	12.5°	2308.8	2301.5	2265.2	2111.5	1848.7	1555.8	1340.2	1196.2	1117.5	1082.4
2400.8	15°	2403.2	2393.6	2322.1	2036.4	1651.4	1289.4	1092.1	984.3	933.5	902.0
2518.3	17.5°	2520.7	2503.7	2364.5	1923.8	1437.1	1086.0	939.5	858.4	813.6	783.3
2672.0	20°	2673.2	2645.4	2398.4	1789.4	1239.8	957.7	836.6	768.8	734.9	708.3
2889.9	22.5°	2886.3	2846.4	2439.6	1644.1	1100.5	869.3	760.3	710.7	682.8	652.6
3193.8	25°	3150.2	3103.0	2490.4	1509.7	1004.9	793.0	704.6	663.5	630.8	595.7
3592.1	27.5°	3519.5	3434.8	2550.9	1399.6	922.6	727.6	653.8	607.8	570.2	541.2
4043.7	30°	3931.1	3791.9	2604.2	1333.0	847.5	667.1	587.2	541.2	506.1	485.5
4449.3	32.5°	4321.0	4132.1	2639.3	1303.9	779.7	598.1	514.5	464.9	438.3	432.2
4846.4	35°	4689.0	4439.6	2635.7	1276.1	719.2	529.1	443.1	392.3	371.7	375.3
5273.8	37.5°	5112.8	4767.7	2610.3	1232.5	669.5	466.1	381.4	336.6	318.4	319.6
5793.2	40°	5605.5	5146.7	2594.5	1150.2	615.0	408.0	330.5	294.2	280.9	276.0
6340.4	42.5°	6131.0	5513.5	2597.0	1056.9	547.2	355.9	295.4	265.1	253.0	249.4
6949.4	45°	6658.9	5863.4	2600.6	960.1	475.8	316.0	270.0	244.6	237.3	232.5
7566.9	47.5°	7155.2	6161.3	2532.8	856.0	405.6	285.7	249.4	232.5	226.4	220.3
8186.8	50°	7617.7	6359.8	2369.3	734.9	349.9	261.5	233.7	221.6	215.5	209.5
8748.5	52.5°	7977.3	6391.3	2099.4	610.2	311.2	243.4	224.0	213.1	205.8	199.8
9202.5	55°	8137.1	6193.9	1715.6	494.0	280.9	227.6	214.3	203.4	194.9	188.9
9559.7	57.5°	8096.0	5778.7	1337.8	397.1	251.8	211.9	202.2	194.9	185.2	175.6
9849.0	60°	7893.8	5223.0	1008.5	330.5	225.2	194.9	188.9	182.8	169.5	155.0
9960.4	62.5°	7543.9	4524.4	719.2	273.6	196.1	175.6	173.1	168.3	148.9	122.3
9795.8	65°	7008.7	3675.7	484.3	227.6	168.3	153.8	155.0	146.5	121.1	90.8
9192.8	67.5°	6226.6	2687.8	309.9	186.4	140.4	128.3	129.5	124.7	102.9	77.5
8049.9	70°	5230.2	1779.7	202.2	141.7	112.6	99.3	106.5	107.8	87.2	63.0
6178.2	72.5°	3834.3	1050.9	141.7	105.3	82.3	69.0	87.2	89.6	70.2	47.2
3716.9	75°	2185.3	498.8	106.5	76.3	50.8	48.4	67.8	67.8	48.4	31.5
1609.0	77.5°	917.7	208.2	75.1	49.6	29.1	27.8	46.0	42.4	24.2	14.5
392.3	80°	265.1	93.2	40.0	24.2	12.1	10.9	18.2	13.3	6.1	2.4
148.9	82.5°	104.1	41.2	15.7	9.7	4.8	4.8	2.4	0.0	0.0	0.0
84.7	85°	61.7	16.9	7.3	3.6	1.2	0.0	0.0	0.0	0.0	0.0
18.2	87.5°	15.7	3.6	2.4	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°
2100.6
2086.0
1996.4
1741.0
1382.6
1078.7
903.2
780.9
703.4
647.7
592.0
535.1
481.9
435.9
375.3
324.5
274.8
248.2
232.5
220.3
209.5
198.6
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