

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: P957228

Luminaire Tested: **GALN-SB9C-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40580 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

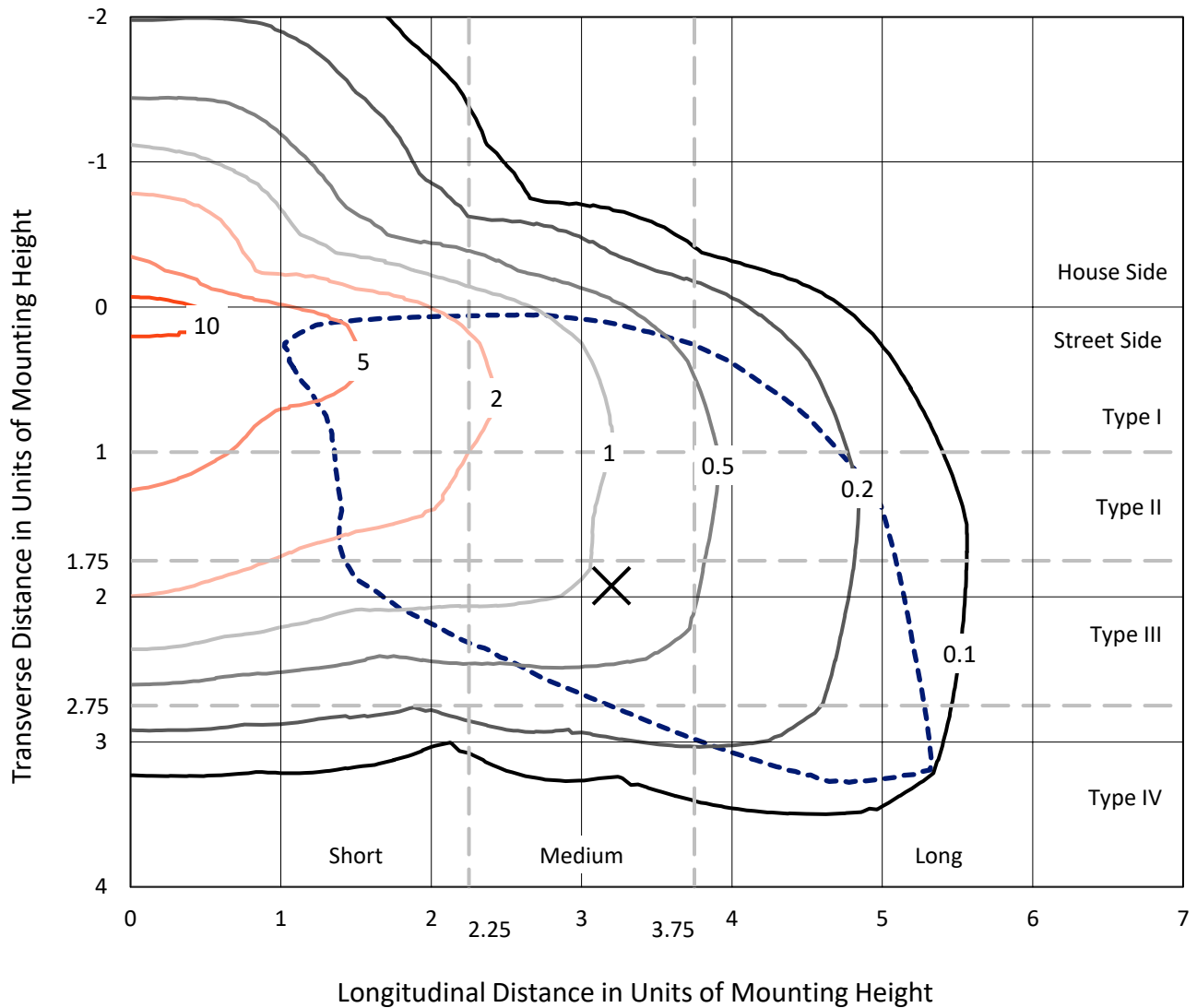
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957228
 CATALOG NUMBER: GALN-SB9C-927-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

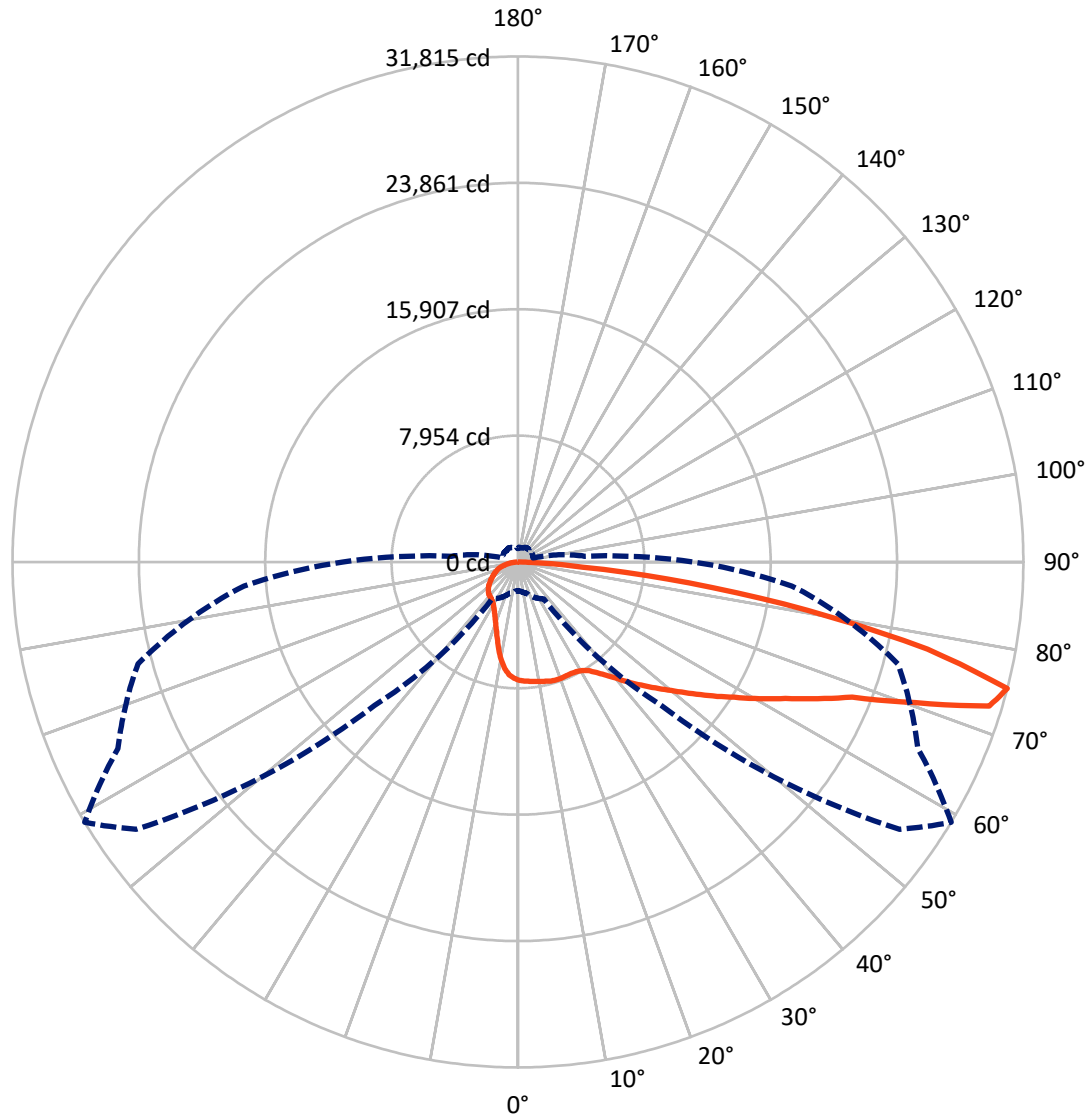
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P957228
CATALOG NUMBER: GALN-SB9C-927-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P957228

CATALOG NUMBER: GALN-SB9C-927-U-SL3

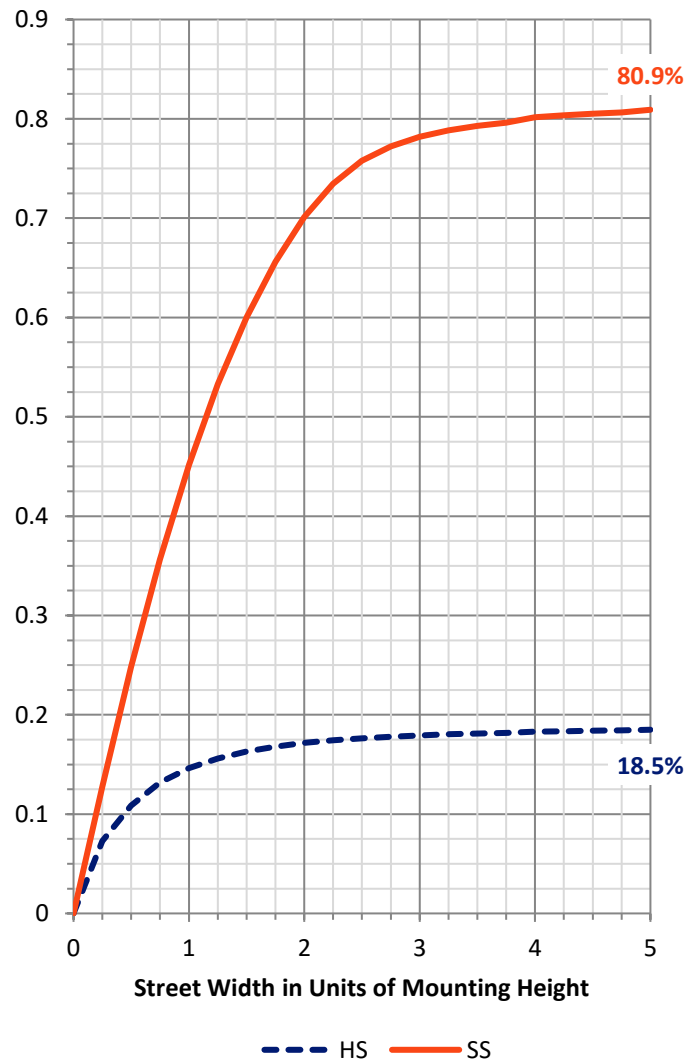
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7611.1	0.0	7611.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	32968.9	0.0	32968.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	40580.0	0.0	40580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.9	1.6
10°-20°	1707.1	4.2
20°-30°	2593.0	6.4
30°-40°	3854.4	9.5
40°-50°	5732.1	14.1
50°-60°	7780.7	19.2
60°-70°	9498.9	23.4
70°-80°	7454.6	18.4
80°-90°	1291.3	3.2
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°	40580.0	100.0
0°-180°	40580.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957228

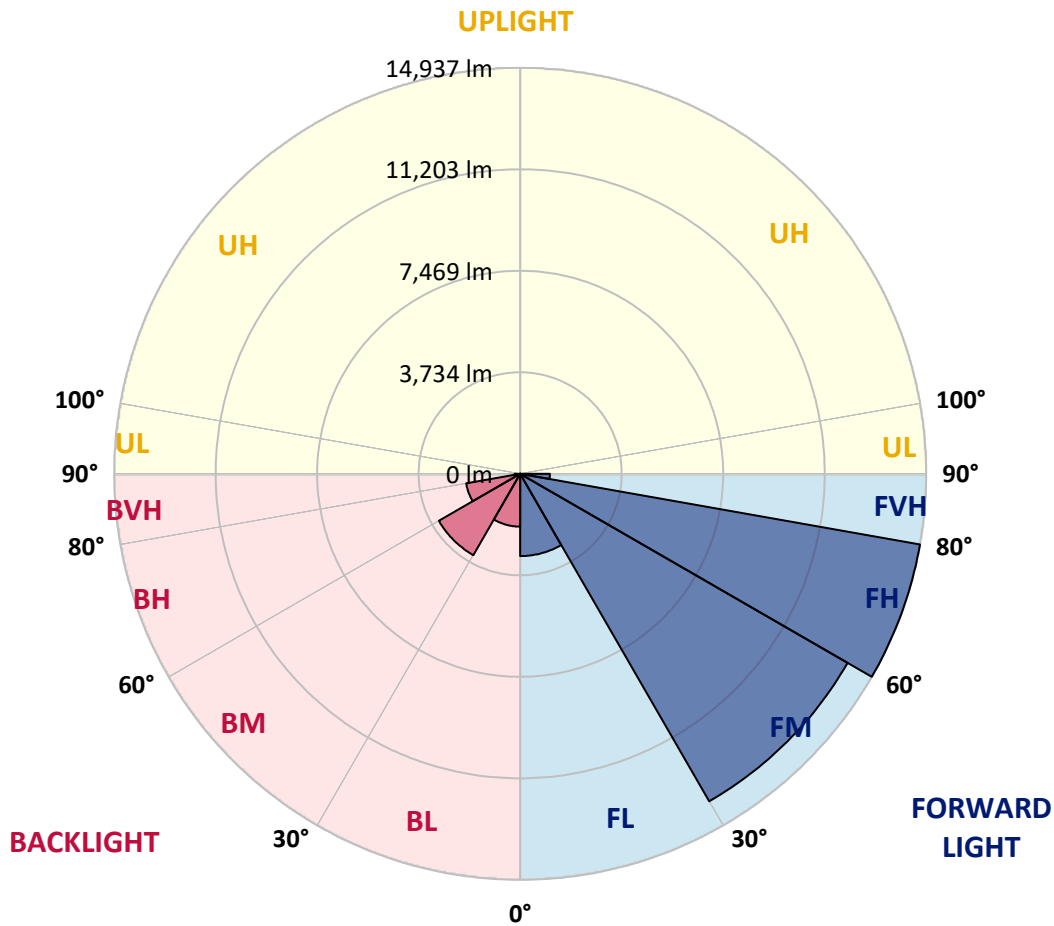
CATALOG NUMBER: GALN-SB9C-927-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3025.7	7.5			
FM (30°-60°)	13912.5	34.3			
FH (60°-80°)	14937.1	36.8			G5
FVH (80°-90°)	1093.7	2.7			G5
BL (0°-30°)	1942.3	4.8	B3/2500		
BM (30°-60°)	3454.7	8.5	B3/5000		
BH (60°-80°)	2016.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	197.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



REPORT NUMBER: P957228
 CATALOG NUMBER: GALN-SB9C-927-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4
2.5°	7511.7	7485.5	7511.7	7500.8	7496.4	7487.7	7489.8	7505.1	7496.4	7507.3
5°	7461.5	7446.2	7472.4	7465.8	7494.2	7498.6	7527.0	7544.4	7555.3	7557.5
7.5°	7378.5	7363.2	7400.3	7430.9	7492.0	7509.5	7568.4	7596.8	7612.1	7638.3
10°	7075.1	7068.5	7160.2	7275.9	7420.0	7509.5	7599.0	7647.0	7671.0	7740.9
12.5°	6538.1	6546.8	6666.9	6889.5	7177.7	7465.8	7633.9	7703.8	7740.9	7828.2
15°	6025.1	6022.9	6153.9	6391.8	6795.7	7273.7	7651.4	7771.5	7834.8	7963.6
17.5°	5728.2	5719.4	5811.1	5992.3	6367.8	6979.0	7607.7	7808.6	7943.9	8105.4
20°	5673.6	5656.1	5704.2	5793.7	6060.0	6655.9	7494.2	7808.6	8031.2	8240.8
22.5°	5872.2	5843.9	5824.2	5813.3	5931.2	6389.6	7365.4	7782.4	8160.0	8435.1
25°	6271.7	6228.1	6127.7	6029.4	5994.5	6269.6	7251.9	7775.8	8352.1	8697.0
27.5°	6917.9	6863.3	6660.3	6424.5	6212.8	6330.7	7201.7	7815.1	8563.9	8974.3
30°	7719.1	7660.1	7404.7	7042.3	6662.5	6557.7	7265.0	7930.8	8834.6	9343.2
32.5°	8437.3	8371.8	8153.5	7784.5	7271.5	6950.6	7465.8	8151.3	9260.3	9856.2
35°	9074.7	8998.3	8801.8	8461.3	8018.1	7502.9	7828.2	8542.0	9864.9	10690.1
37.5°	9699.0	9609.5	9395.6	9035.4	8725.4	8238.6	8328.1	9044.1	10668.3	11703.0
40°	10397.6	10268.8	10009.0	9653.2	9351.9	9100.9	8985.2	9659.7	11484.7	12833.8
42.5°	11074.3	10952.1	10642.1	10338.6	9961.0	9889.0	9747.1	10380.1	12377.6	14075.9
45°	11803.4	11657.2	11281.7	10897.5	10659.5	10412.9	10484.9	11100.5	13252.9	15342.1
47.5°	12486.7	12323.0	11879.8	11452.0	11321.0	10853.8	11161.6	11892.9	14163.3	16625.7
50°	12855.6	12694.1	12325.2	11938.8	11836.2	11397.4	11895.1	12764.0	15117.2	17904.9
52.5°	13163.4	12988.8	12506.4	12292.4	12261.9	11989.0	12798.9	13759.4	16071.2	19035.7
55°	13490.9	13296.6	12681.0	12488.9	12628.6	12652.6	13870.7	14888.0	17079.7	20138.1
57.5°	13868.5	13621.9	12849.1	12654.8	12986.6	13429.8	15101.9	16058.1	18070.8	21159.7
60°	14224.4	13975.5	13172.2	12918.9	13373.0	14331.3	16514.3	17474.9	19192.9	22070.0
62.5°	14294.2	14089.0	13429.8	13427.6	13896.9	15383.5	18186.5	18904.7	20173.0	22969.4
65°	13084.9	12956.1	12565.3	13407.9	14647.9	16898.5	20048.6	20734.1	21419.5	23755.3
67.5°	9958.8	9976.3	9947.9	11574.2	14041.0	19075.0	22744.6	22692.2	22958.5	24637.2
70°	4553.7	4656.3	5324.3	7989.8	11249.0	19326.0	27202.3	26523.4	24890.5	25779.0
72.5°	2460.2	2538.8	2811.7	3870.4	6762.9	17182.3	30533.5	31015.9	27459.9	26547.4
75°	1805.3	1849.0	2038.9	2460.2	2840.1	12770.5	29339.4	31814.9	27780.8	24755.1
77.5°	1351.3	1370.9	1525.9	1949.4	1453.9	6732.3	23443.2	26348.7	23781.5	20338.9
80°	980.2	1002.0	1117.7	1462.6	1019.5	2462.4	16097.4	18494.3	16287.3	12964.8
82.5°	676.7	685.5	735.7	995.4	711.7	956.2	9133.6	10845.1	9092.2	4549.4
85°	408.2	419.1	441.0	580.7	403.9	454.1	3942.5	4077.8	2717.8	1087.1
87.5°	168.1	179.0	196.5	244.5	159.4	126.6	650.5	816.4	508.6	318.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957228
 CATALOG NUMBER: GALN-SB9C-927-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7448.4	0°	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4	7448.4
7470.2	2.5°	7459.3	7444.0	7402.5	7345.8	7293.4	7227.9	7199.5	7175.5	7153.7	7112.2
7529.1	5°	7505.1	7463.6	7352.3	7208.2	7044.5	6865.5	6690.9	6570.8	6468.2	6391.8
7596.8	7.5°	7575.0	7496.4	7293.4	6998.7	6623.2	6239.0	5891.9	5645.2	5459.7	5392.0
7692.9	10°	7647.0	7553.2	7199.5	6680.0	6031.6	5440.0	4979.4	4726.2	4577.7	4529.7
7806.4	12.5°	7732.2	7594.6	7053.2	6236.8	5370.2	4721.8	4320.1	4171.7	4095.3	4069.1
7946.1	15°	7856.6	7629.6	6832.8	5682.3	4739.3	4197.9	3938.1	3835.5	3796.2	3794.0
8090.2	17.5°	7950.5	7636.1	6490.0	5088.6	4254.7	3881.4	3667.4	3628.1	3654.3	3693.6
8232.1	20°	8055.2	7577.2	6040.3	4547.2	3914.1	3604.1	3514.6	3540.8	3604.1	3660.9
8419.8	22.5°	8129.5	7470.2	5496.8	4125.9	3619.4	3444.8	3440.4	3495.0	3529.9	3558.3
8640.3	25°	8195.0	7289.0	4920.5	3772.2	3377.1	3348.7	3396.7	3379.3	3355.3	3379.3
8860.8	27.5°	8243.0	7003.0	4405.3	3462.2	3206.8	3283.2	3254.8	3215.5	3213.4	3226.5
9120.5	30°	8227.7	6621.0	3981.8	3167.5	3086.8	3161.0	3093.3	3086.8	3080.2	3086.8
9511.3	32.5°	8227.7	6186.6	3656.5	2964.5	3010.3	2982.0	2975.4	2960.1	2933.9	2931.8
10041.8	35°	8273.5	5752.2	3377.1	2855.4	2947.0	2879.4	2883.7	2846.6	2792.0	2765.9
10744.7	37.5°	8367.4	5402.9	3099.8	2803.0	2835.7	2833.5	2816.1	2752.8	2656.7	2573.7
11622.2	40°	8594.4	5300.3	2909.9	2778.9	2783.3	2809.5	2763.7	2641.4	2423.1	2287.8
12512.9	42.5°	8950.3	5472.8	2868.5	2720.0	2748.4	2774.6	2685.1	2401.3	2246.3	2165.5
13447.2	45°	9402.1	5774.0	2958.0	2634.9	2665.4	2711.3	2445.0	2309.6	2239.7	2241.9
14372.8	47.5°	9974.1	6090.5	3123.9	2560.6	2545.4	2571.6	2285.6	2202.6	2106.6	2130.6
15261.3	50°	10635.5	6411.4	3281.0	2460.2	2412.2	2327.1	2183.0	2104.4	1982.2	1925.4
16119.2	52.5°	11351.6	6721.4	3344.3	2338.0	2268.1	2169.9	2113.1	2017.1	1868.6	1774.8
16929.1	55°	12030.5	7003.0	3274.5	2191.7	2124.1	2047.6	2038.9	1980.0	1820.6	1689.6
17649.5	57.5°	12672.3	7238.8	3099.8	2043.3	1977.8	1931.9	1990.9	1962.5	1761.7	1593.6
18330.6	60°	13215.8	7400.3	2846.6	1892.7	1846.8	1822.8	1912.3	1903.6	1678.7	1491.0
18941.8	62.5°	13648.1	7463.6	2567.2	1748.6	1737.7	1694.0	1803.2	1803.2	1573.9	1390.6
19478.8	65°	13986.4	7402.5	2283.4	1606.7	1628.5	1563.0	1670.0	1656.9	1462.6	1301.1
20096.6	67.5°	14285.5	7201.7	1969.1	1467.0	1517.2	1434.2	1530.3	1499.7	1340.4	1211.6
20631.5	70°	14418.7	6734.5	1611.0	1327.3	1388.4	1307.6	1390.6	1333.8	1202.8	1115.5
20044.2	72.5°	13349.0	5597.2	1268.3	1181.0	1233.4	1167.9	1239.9	1174.4	1054.4	1015.1
17308.9	75°	11043.8	4200.1	975.8	1021.6	1060.9	1010.7	1058.8	1010.7	901.6	930.0
12785.8	77.5°	8020.3	2835.7	746.6	853.5	871.0	844.8	886.3	831.7	733.5	726.9
6372.2	80°	3988.3	1661.3	585.0	674.5	668.0	650.5	698.6	672.4	589.4	624.3
1720.2	82.5°	1154.8	711.7	425.7	473.7	460.6	465.0	499.9	513.0	768.4	761.9
534.8	85°	362.4	279.4	255.4	264.1	251.0	257.6	294.7	585.0	541.4	316.5
165.9	87.5°	93.9	96.1	63.3	67.7	69.9	83.0	93.9	355.8	170.3	111.3
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>
7448.4
7092.5
6328.5
5274.1
4455.5
4075.6
3802.8
3708.9
3680.5
3573.6
3394.6
3248.3
3110.8
2960.1
2792.0
2602.1
2305.2
2165.5
2252.8
2191.7
1940.7
1772.6
1689.6
1584.9
1484.4
1384.0
1292.3
1202.8
1098.0
982.3
849.2
694.2
617.8
779.3
342.7
117.9
0.0

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