

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: P944617

Luminaire Tested: **GALN-SB9C-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41549 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

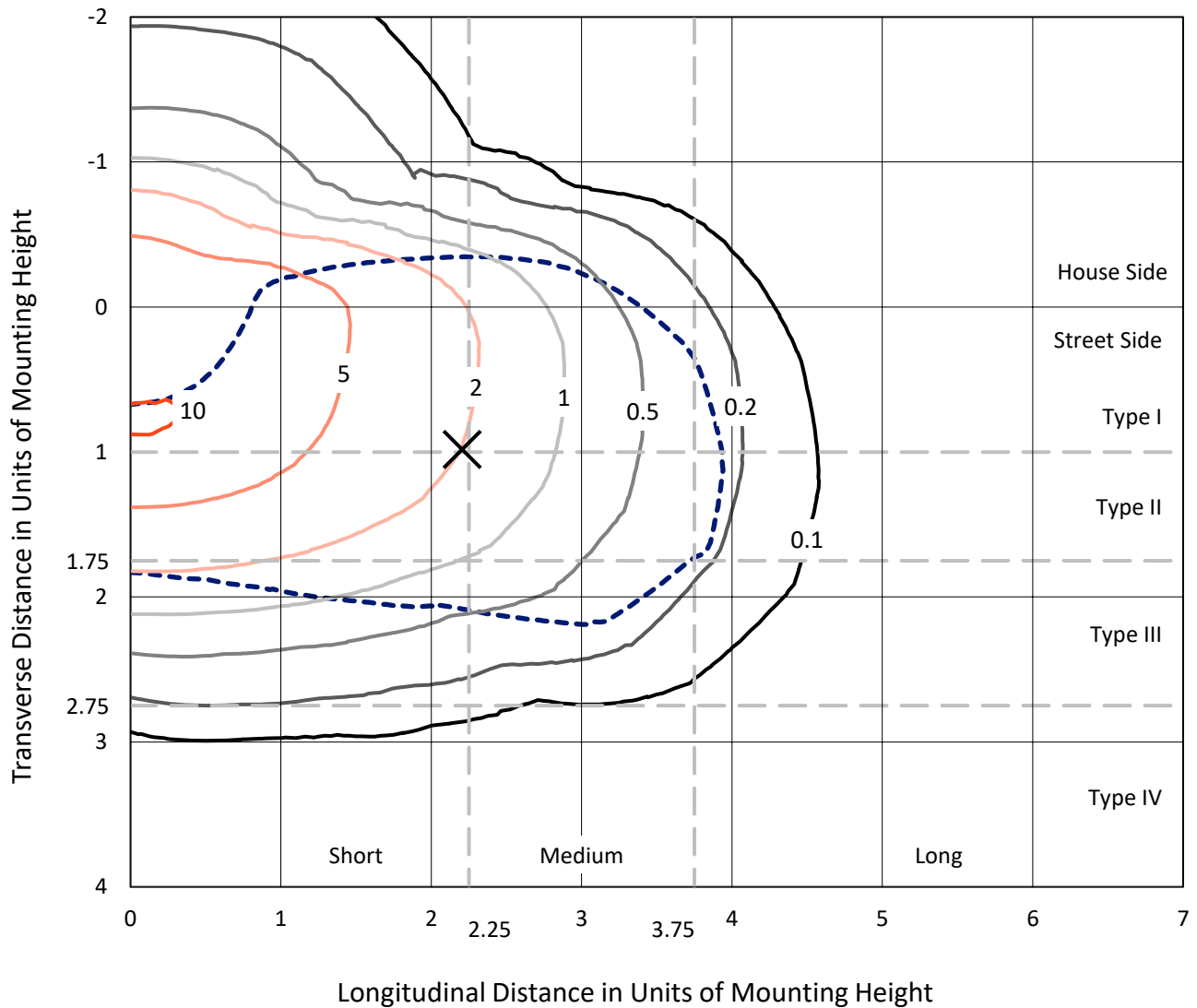
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944617
 CATALOG NUMBER: GALN-SB9C-927-U-T3

Iso-Footcandle Lines of Horizontal Illumination

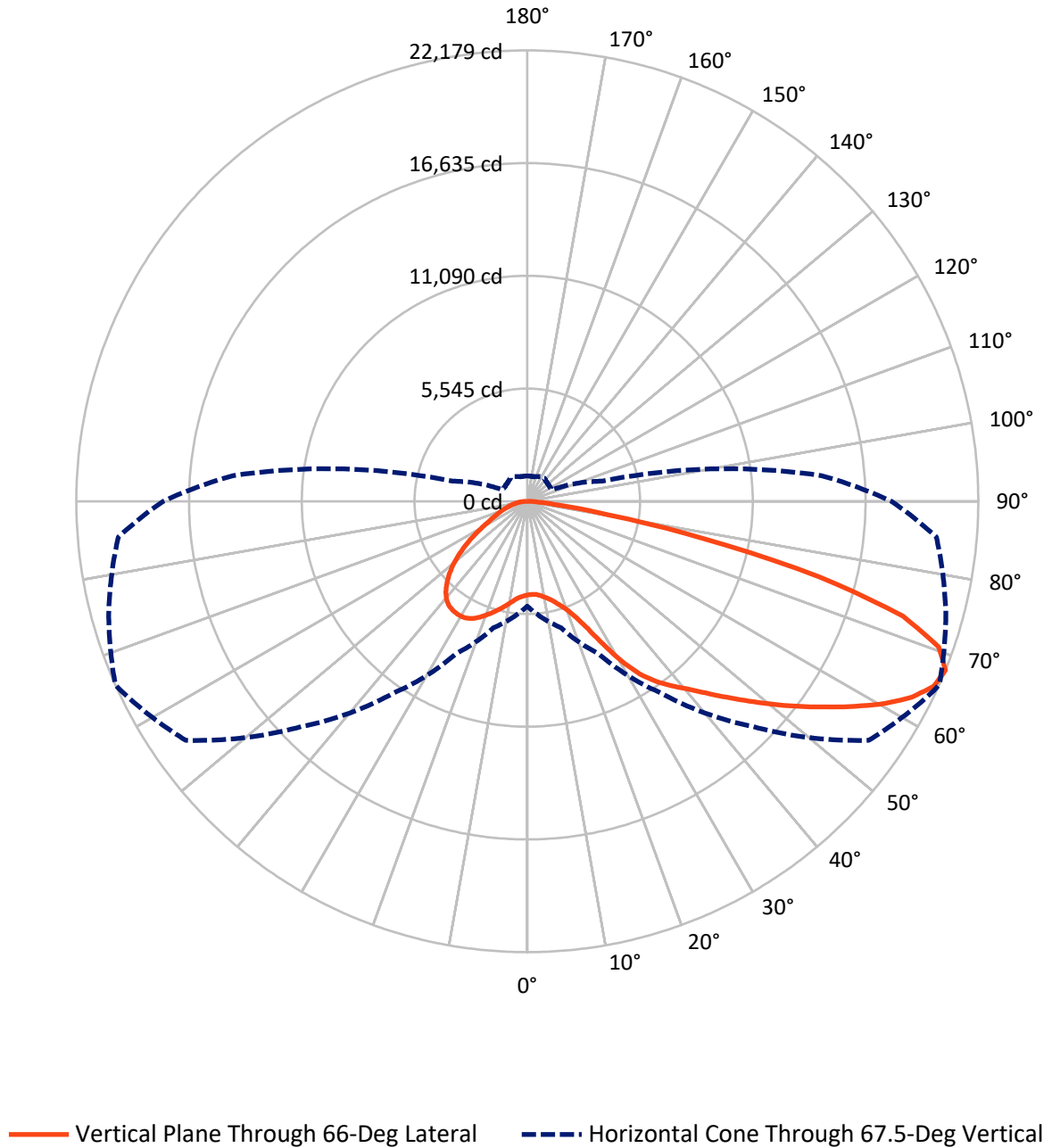
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

REPORT NUMBER: P944617
CATALOG NUMBER: GALN-SB9C-927-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10331.0	0.0	10331.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	31218.0	0.0	31218.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	41549.0	0.0	41549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.9	1.1
10°-20°	1509.5	3.6
20°-30°	2909.5	7.0
30°-40°	5101.5	12.3
40°-50°	7584.2	18.3
50°-60°	9613.8	23.1
60°-70°	9406.8	22.6
70°-80°	4487.2	10.8
80°-90°	479.5	1.2
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°	41549.0	100.0
0°-180°	41549.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944617

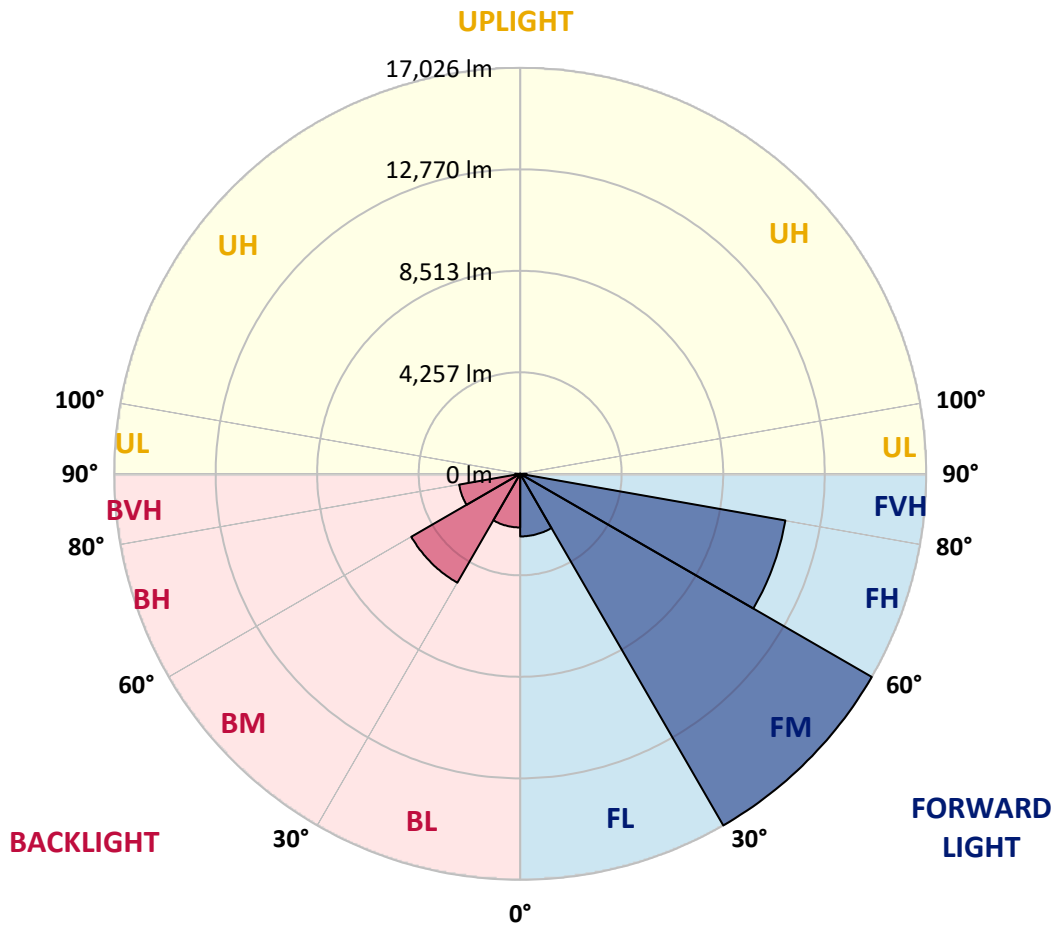
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2625.5	6.3			
FM (30°-60°)	17026.4	41.0			
FH (60°-80°)	11294.2	27.2			G4/12000
FVH (80°-90°)	271.9	0.7			G3/500
BL (0°-30°)	2250.5	5.4	B3/2500		
BM (30°-60°)	5273.1	12.7	B4/8500		
BH (60°-80°)	2599.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	207.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



REPORT NUMBER: P944617
 CATALOG NUMBER: GALN-SB9C-927-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3
2.5°	4560.3	4586.5	4580.0	4569.0	4566.9	4571.2	4577.8	4584.3	4582.1	4593.1
5°	4547.2	4573.4	4571.2	4571.2	4580.0	4597.4	4608.3	4619.2	4608.3	4621.4
7.5°	4555.9	4575.6	4584.3	4593.1	4614.9	4647.6	4673.8	4697.8	4684.7	4700.0
10°	4667.3	4682.6	4691.3	4691.3	4706.6	4743.7	4769.9	4813.5	4802.6	4826.6
12.5°	4870.3	4885.6	4885.6	4876.8	4887.8	4911.8	4920.5	4968.5	4948.9	4988.2
15°	5119.2	5149.7	5125.7	5110.4	5114.8	5138.8	5136.6	5173.7	5154.1	5186.8
17.5°	5394.2	5433.5	5394.2	5392.0	5383.3	5409.5	5411.7	5444.4	5409.5	5433.5
20°	5719.5	5774.1	5741.3	5752.2	5732.6	5743.5	5754.4	5802.4	5747.9	5765.3
22.5°	6177.9	6243.4	6208.5	6250.0	6236.9	6228.1	6225.9	6311.1	6225.9	6232.5
25°	6845.9	6924.5	6863.4	6920.1	6920.1	6948.5	6981.3	7090.4	6948.5	6907.0
27.5°	7832.6	7911.2	7791.2	7826.1	7815.2	7885.0	7850.1	8120.8	7968.0	7900.3
30°	9020.2	9159.9	8932.9	8924.1	8913.2	9024.6	9074.8	9253.8	9098.8	9031.1
32.5°	10303.8	10450.1	10179.4	10100.8	10059.3	10127.0	10085.5	10229.6	10122.6	10017.8
35°	11661.6	11805.7	11548.1	11395.3	11229.4	11087.5	10939.1	10976.2	10875.8	10716.4
37.5°	12945.2	13209.4	12936.5	12772.8	12467.2	12189.9	11775.2	11602.7	11508.8	11362.6
40°	14252.9	14403.5	14196.1	14056.4	13724.6	13290.2	12626.5	12262.0	12135.4	11993.5
42.5°	15215.6	15359.7	15248.3	15152.3	14892.5	14388.2	13530.3	13074.0	12890.7	12731.3
45°	15979.6	16086.6	16016.7	16051.7	15940.3	15451.3	14466.8	13945.1	13755.1	13560.9
47.5°	16287.4	16401.0	16512.3	16719.7	16909.6	16549.4	15473.2	14888.1	14687.3	14488.6
50°	16252.5	16368.2	16691.3	17132.3	17721.7	17601.6	16534.1	15892.3	15706.8	15479.7
52.5°	15973.1	16104.1	16518.8	17252.3	18191.0	18389.7	17614.7	16929.2	16754.6	16483.9
55°	15239.6	15318.2	15940.3	16979.4	18302.4	18939.8	18673.5	18033.8	17859.2	17481.5
57.5°	13879.6	13993.1	14899.0	16243.8	18022.9	19313.1	19603.4	19195.2	19027.1	18483.5
60°	12104.8	12286.0	13322.9	15008.2	17311.3	19310.9	20448.3	20336.9	20197.2	19470.3
62.5°	10096.4	10306.0	11303.6	13261.8	16067.0	18763.0	20976.5	21293.1	21221.0	20380.6
65°	7754.0	7898.1	8891.4	11002.4	14130.6	17586.3	21037.7	21945.8	21958.9	21072.6
67.5°	5162.8	5577.6	6439.9	8256.1	11537.2	15663.1	20500.6	22052.8	22179.4	21310.5
70°	2519.2	3064.9	3909.8	5365.8	8256.1	12713.8	19097.0	21175.2	21456.8	20616.3
72.5°	1045.7	1222.5	1683.1	2648.0	4739.3	8579.2	16276.5	18795.7	19317.5	18267.4
75°	705.1	764.1	962.7	1357.8	2159.0	4230.7	11738.0	14014.9	14855.4	13796.6
77.5°	543.6	580.7	700.7	949.6	1283.6	1600.1	6282.7	8446.1	8880.5	8221.2
80°	427.9	456.2	523.9	692.0	910.3	855.7	2141.5	3826.8	4077.9	3420.8
82.5°	371.1	382.0	375.5	469.3	604.7	499.9	702.9	1412.4	1558.7	1130.8
85°	268.5	299.1	312.2	290.3	320.9	253.2	288.2	499.9	550.1	491.2
87.5°	109.2	161.5	198.7	187.7	117.9	72.0	89.5	146.3	168.1	183.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944617
 CATALOG NUMBER: GALN-SB9C-927-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4608.3	0°	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3	4608.3
4610.5	2.5°	4612.7	4628.0	4638.9	4652.0	4660.7	4673.8	4700.0	4715.3	4717.5	4728.4
4645.4	5°	4654.2	4676.0	4700.0	4734.9	4774.2	4807.0	4857.2	4892.1	4905.2	4916.1
4730.6	7.5°	4743.7	4774.2	4817.9	4879.0	4935.8	4979.4	5040.6	5082.0	5123.5	5138.8
4865.9	10°	4876.8	4920.5	4983.8	5066.8	5127.9	5184.6	5248.0	5282.9	5324.4	5341.8
5027.5	12.5°	5042.8	5088.6	5171.5	5287.2	5344.0	5383.3	5405.1	5396.4	5405.1	5420.4
5221.8	15°	5232.7	5282.9	5376.8	5501.2	5540.5	5505.6	5457.5	5413.9	5407.3	5411.7
5457.5	17.5°	5457.5	5494.6	5603.8	5708.6	5680.2	5536.1	5431.3	5361.5	5326.5	5315.6
5758.8	20°	5771.9	5771.9	5861.4	5926.9	5736.9	5492.5	5328.7	5215.2	5143.2	5112.6
6169.2	22.5°	6153.9	6119.0	6175.7	6129.9	5726.0	5370.2	5143.2	4946.7	4837.5	4793.9
6743.3	25°	6638.5	6597.1	6581.8	6298.0	5647.4	5175.9	4807.0	4569.0	4473.0	4449.0
7570.7	27.5°	7369.8	7265.1	7066.4	6389.7	5503.4	4870.3	4414.0	4193.6	4139.0	4141.2
8633.8	30°	8343.5	8133.9	7647.1	6405.0	5267.6	4438.1	4012.4	3855.2	3829.0	3839.9
9526.7	32.5°	9245.0	9046.4	8240.9	6335.1	4905.2	4014.6	3652.2	3547.4	3508.1	3521.2
10207.8	35°	9952.3	9897.8	8791.0	6236.9	4459.9	3617.2	3329.1	3239.6	3163.2	3145.7
10849.6	37.5°	10620.3	10598.5	9203.6	6099.3	4018.9	3335.6	3069.3	2951.4	2840.1	2779.0
11559.0	40°	11353.8	11332.0	9474.3	5887.6	3628.2	3091.1	2835.7	2680.7	2543.2	2431.9
12362.4	42.5°	12179.0	12050.2	9603.1	5584.1	3296.3	2883.8	2645.8	2436.2	2255.0	2152.4
13270.5	45°	13080.6	12790.3	9600.9	5197.7	3016.9	2693.8	2442.8	2145.9	1977.8	1881.8
14202.7	47.5°	14036.8	13497.5	9483.0	4769.9	2746.2	2484.3	2128.4	1901.4	1790.1	1731.1
15215.6	50°	15023.5	14159.0	9282.2	4278.7	2469.0	2246.3	1932.0	1777.0	1691.8	1637.3
16219.8	52.5°	15951.3	14759.3	9039.8	3722.0	2187.4	2014.9	1844.6	1724.6	1635.1	1573.9
17193.4	55°	16813.5	15276.7	8697.1	3152.3	1958.2	1859.9	1803.2	1702.7	1600.1	1528.1
18182.3	57.5°	17579.8	15612.9	8105.5	2617.4	1794.4	1753.0	1759.5	1665.6	1547.8	1486.6
19155.9	60°	18217.2	15859.6	7230.1	2121.9	1661.3	1648.2	1691.8	1595.8	1458.3	1388.4
19978.9	62.5°	18599.2	15855.2	6156.1	1737.7	1547.8	1552.1	1602.3	1508.5	1368.7	1303.3
20409.0	65°	18566.5	15466.6	4977.3	1486.6	1438.6	1443.0	1508.5	1412.4	1294.5	1255.2
20192.8	67.5°	17909.4	14519.2	3818.1	1322.9	1318.5	1338.2	1414.6	1346.9	1248.7	1244.3
18904.9	70°	16130.3	12552.3	2750.6	1191.9	1194.1	1222.5	1322.9	1305.4	1224.7	1233.4
15894.5	72.5°	12934.3	9570.3	1846.8	1054.4	1056.6	1102.4	1235.6	1272.7	1200.7	1316.4
11277.4	75°	8614.2	5968.3	1187.6	908.1	910.3	969.3	1159.2	1209.4	1135.2	1312.0
5867.9	77.5°	4139.0	2682.9	860.1	764.1	764.1	818.6	1002.0	1082.8	967.1	1019.5
1886.1	80°	1429.9	1008.6	676.7	615.6	602.5	639.6	844.8	938.7	833.9	768.4
615.6	82.5°	563.2	523.9	543.6	478.1	434.4	458.4	657.1	775.0	613.4	554.5
347.1	85°	323.1	340.5	384.2	316.5	251.0	281.6	482.4	556.7	462.8	408.2
113.5	87.5°	87.3	120.1	176.8	163.7	113.5	120.1	229.2	307.8	266.3	205.2
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>
4608.3
4726.2
4914.0
5141.0
5350.6
5424.8
5427.0
5330.9
5106.1
4787.3
4453.3
4147.7
3877.0
3538.7
3158.8
2781.2
2442.8
2159.0
1877.4
1718.0
1617.6
1547.8
1499.7
1447.3
1357.8
1283.6
1253.0
1250.9
1231.2
1333.8
1322.9
934.3
720.4
552.3
417.0
211.8
0.0

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