

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: P956331

Luminaire Tested: **GALN-SB9A-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41616 lumens
Efficiency: N/A
Efficacy: 162.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

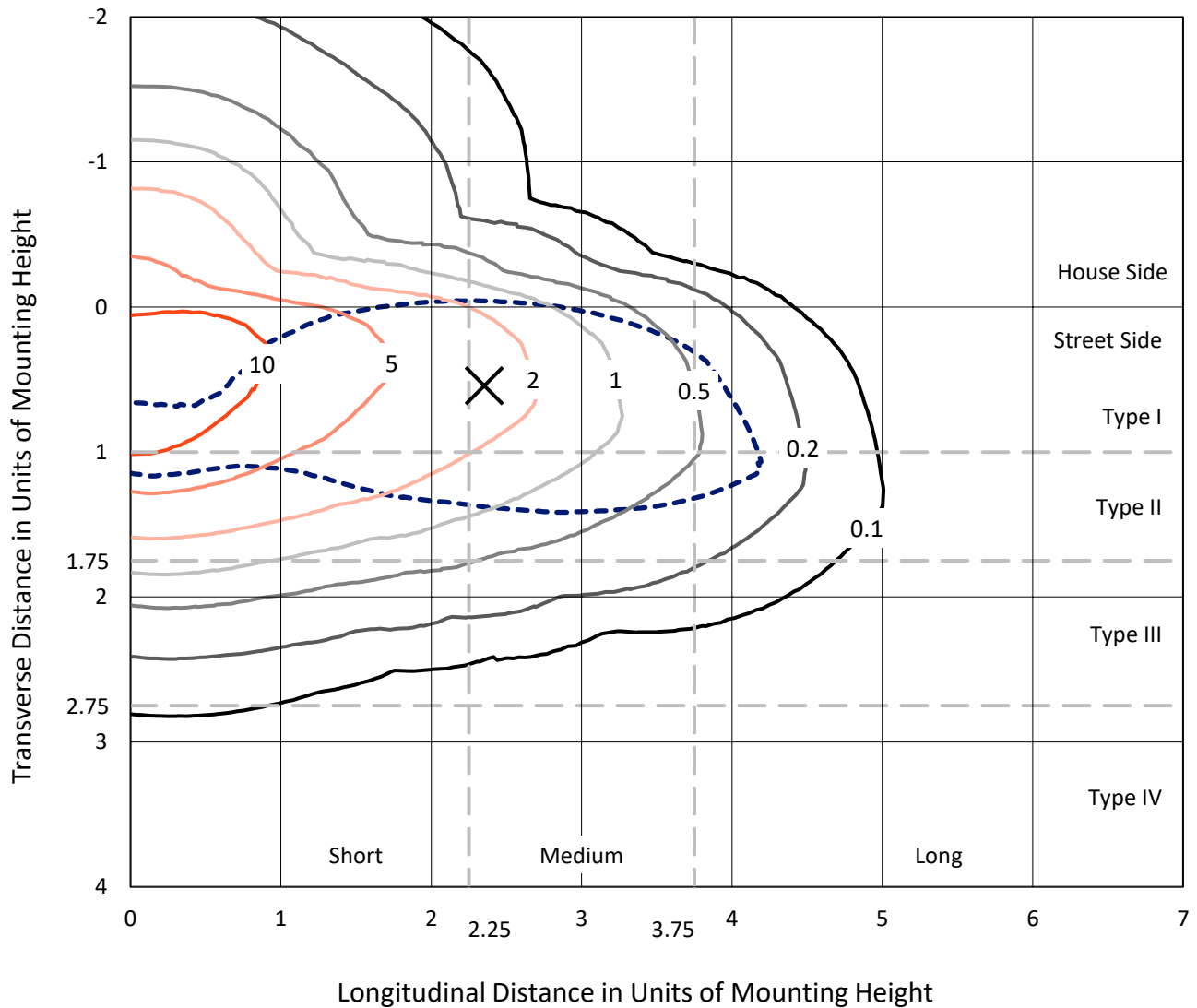
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

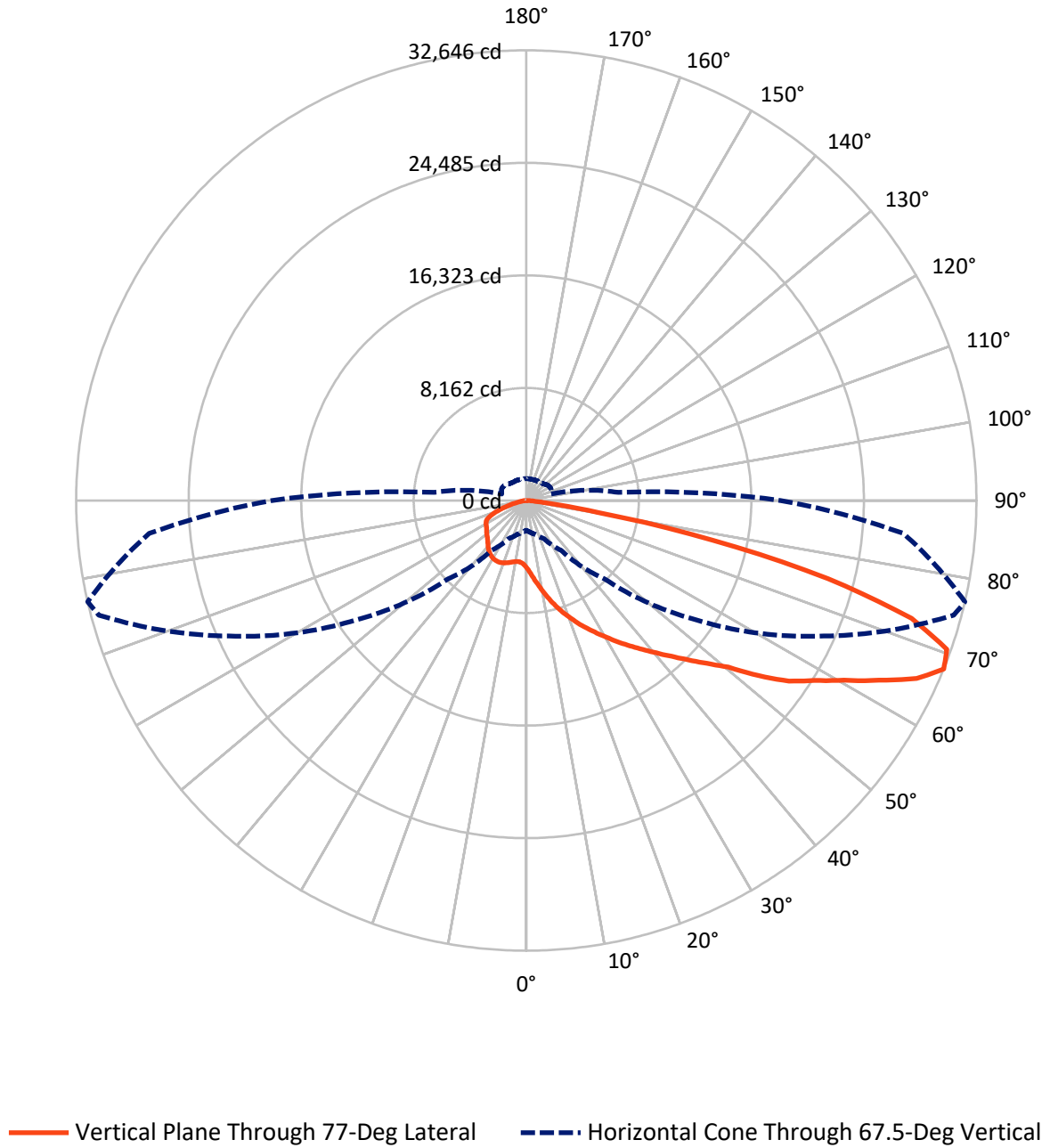
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7872.1	0.0	7872.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	33743.9	0.0	33743.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	41616.0	0.0	41616.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.4	1.3
10°-20°	1880.3	4.5
20°-30°	3550.1	8.5
30°-40°	5719.2	13.7
40°-50°	7822.9	18.8
50°-60°	8824.3	21.2
60°-70°	8236.3	19.8
70°-80°	4514.9	10.8
80°-90°	544.6	1.3
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°	41616.0	100.0
0°-180°	41616.0	100.0



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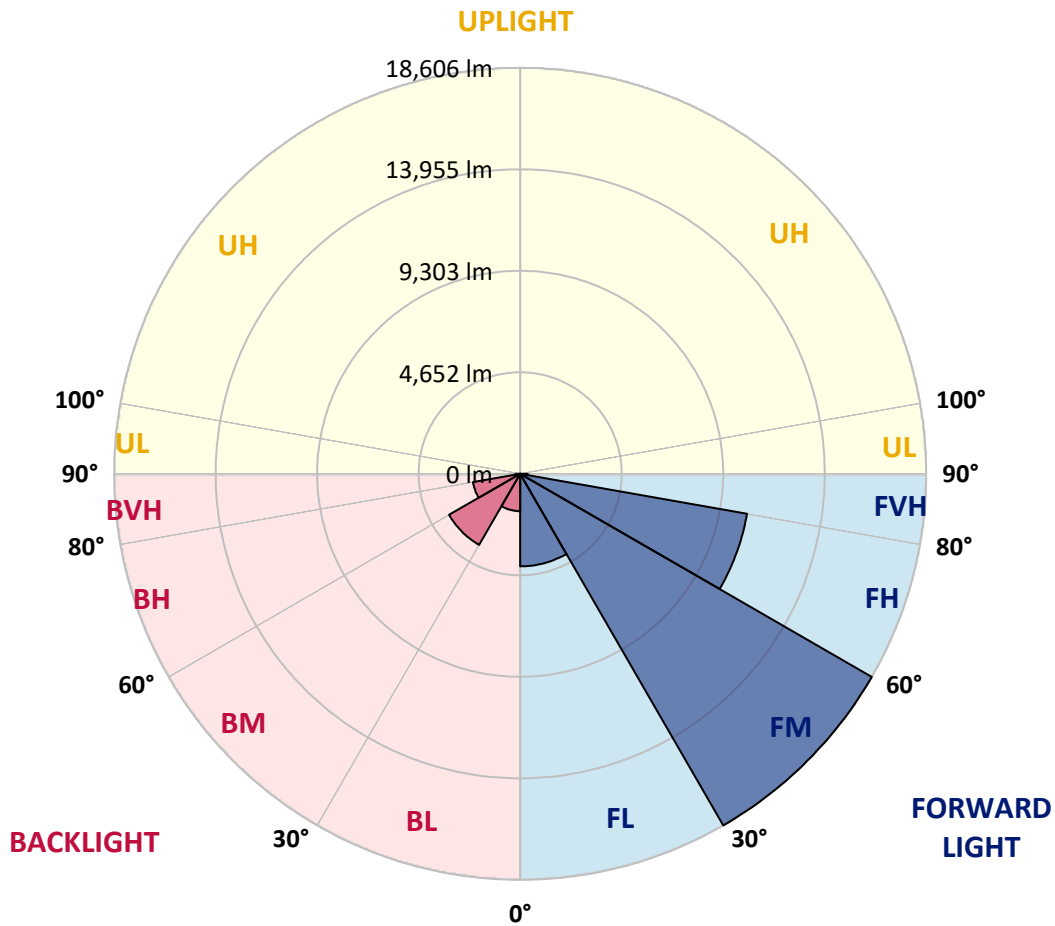
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4242.2	10.2			
FM (30°-60°)	18606.1	44.7			
FH (60°-80°)	10555.1	25.4			G4/12000
FVH (80°-90°)	340.6	0.8			G3/500
BL (0°-30°)	1711.6	4.1	B3/2500		
BM (30°-60°)	3760.3	9.0	B3/5000		
BH (60°-80°)	2196.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	204.0	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8
2.5°	6113.8	6156.7	6103.0	6103.0	5922.6	5828.1	5647.6	5510.1	5263.1	5220.1
5°	7226.5	7280.2	7205.0	7172.8	6960.2	6764.7	6461.8	6163.2	5722.8	5677.7
7.5°	8088.0	8156.7	8090.1	8055.7	7866.7	7647.6	7293.1	6876.4	6255.5	6167.5
10°	8790.4	8801.2	8779.7	8792.6	8644.3	8463.9	8100.8	7615.4	6839.9	6719.6
12.5°	9187.8	9237.2	9280.2	9357.5	9331.8	9220.1	8893.5	8313.5	7458.5	7303.9
15°	9374.7	9460.7	9557.3	9735.6	9879.6	9907.5	9658.3	9063.2	8088.0	7901.1
17.5°	9441.3	9523.0	9675.5	9933.3	10242.6	10451.0	10339.3	9791.5	8710.9	8496.1
20°	9778.6	9802.2	9894.6	10139.5	10474.6	10820.5	10904.2	10491.8	9327.5	9084.7
22.5°	10500.4	10453.1	10478.9	10590.6	10831.2	11166.3	11357.5	11110.5	9961.2	9681.9
25°	11692.6	11555.1	11417.7	11288.8	11411.2	11600.3	11817.2	11729.2	10625.0	10270.5
27.5°	13198.5	13031.0	12728.1	12304.9	12156.6	12223.2	12319.9	12302.7	11239.4	10880.6
30°	14680.8	14485.3	14124.4	13512.2	13121.2	12945.0	12872.0	12822.6	11907.5	11525.1
32.5°	15864.4	15709.8	15355.3	14670.0	14102.9	13802.2	13559.4	13383.3	12605.6	12223.2
35°	16899.9	16755.9	16349.9	15602.3	14985.8	14665.7	14347.8	13971.9	13331.7	12945.0
37.5°	17845.1	17701.1	17144.8	16367.1	15746.3	15525.0	15241.5	14603.4	14059.9	13694.8
40°	18442.3	18410.0	17890.2	17009.4	16365.0	16255.4	16160.9	15336.0	14867.7	14528.3
42.5°	18594.8	18665.7	18253.2	17529.3	16914.9	16826.8	17048.1	16165.2	15774.2	15449.8
45°	18227.4	18431.5	18160.8	17668.9	17305.9	17258.6	17834.3	17071.7	16777.4	16481.0
47.5°	17297.3	17643.1	17531.4	17462.7	17411.1	17615.2	18526.0	18034.1	17913.8	17656.0
50°	15419.8	16075.0	16270.4	16704.4	17202.8	17892.3	19155.5	19084.6	19241.4	18981.5
52.5°	12173.8	13076.1	14210.3	15297.3	16562.6	17800.0	19847.2	20592.6	21254.3	21112.5
55°	10049.3	10455.3	11327.4	13321.0	15320.9	17411.1	20158.7	21810.6	23252.1	23125.3
57.5°	8416.6	8779.7	9316.7	10981.6	13443.4	16528.2	20352.0	22553.9	24620.5	24607.6
60°	6665.9	7050.4	7600.3	8779.7	11250.1	15003.0	20309.0	23400.3	26367.0	26474.4
62.5°	4689.5	5112.7	5722.8	6822.7	9009.5	13026.7	19432.6	24012.5	28422.8	28714.9
65°	3082.7	3361.9	3821.6	4771.1	6713.1	10485.3	17759.1	24092.0	30622.5	31116.6
67.5°	2161.1	2268.5	2539.2	3054.7	4425.3	8040.7	15093.2	23269.3	32089.8	32646.1
70°	1686.3	1740.0	1877.5	2083.8	2779.8	5407.0	11565.9	21129.7	31776.1	32356.1
72.5°	1456.5	1508.0	1559.6	1585.4	1864.6	3338.3	7834.5	17666.8	28822.3	29215.5
75°	1321.1	1334.0	1377.0	1368.4	1422.1	2165.4	4522.0	12872.0	22740.8	22605.5
77.5°	1110.6	1127.8	1198.7	1188.0	1263.1	1480.1	2348.0	8307.1	14743.1	13823.6
80°	940.9	949.5	1026.8	1013.9	1097.7	1071.9	1198.7	4234.1	6253.4	5297.5
82.5°	326.5	403.9	784.1	807.7	837.8	648.8	691.7	1727.1	1909.7	1462.9
85°	159.0	169.7	399.6	567.1	565.0	326.5	337.3	616.5	601.5	472.6
87.5°	25.8	32.2	47.3	221.3	176.2	85.9	116.0	120.3	124.6	107.4
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°
4882.8	0°	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8
5056.9	2.5°	4936.6	4829.1	4603.6	4395.2	4231.9	4075.1	3987.1	3911.9	3868.9	3860.3
5293.2	5°	5069.7	4848.5	4438.2	4092.3	3866.8	3699.2	3611.1	3555.3	3527.3	3510.2
5611.1	7.5°	5260.9	4936.6	4352.2	3959.1	3722.8	3602.5	3557.4	3548.8	3546.7	3548.8
5995.6	10°	5525.2	5080.5	4343.7	3926.9	3729.3	3662.7	3660.5	3662.7	3671.3	3673.4
6414.5	12.5°	5810.9	5228.7	4378.0	3954.8	3810.9	3774.4	3767.9	3765.8	3772.2	3776.5
6837.7	15°	6122.4	5424.2	4436.0	4015.0	3901.1	3862.5	3856.0	3843.1	3841.0	3838.8
7282.4	17.5°	6442.4	5617.5	4500.5	4079.4	3959.1	3905.4	3881.8	3851.7	3828.1	3821.6
7742.1	20°	6766.8	5808.7	4545.6	4111.6	3963.4	3888.2	3841.0	3789.4	3748.6	3725.0
8206.1	22.5°	7112.7	6008.5	4573.5	4103.1	3924.8	3821.6	3735.7	3675.6	3613.3	3572.5
8674.4	25°	7449.9	6182.5	4571.4	4057.9	3849.6	3718.5	3609.0	3531.6	3445.7	3402.7
9157.8	27.5°	7774.3	6339.3	4517.7	3978.5	3742.2	3596.1	3465.0	3372.7	3288.9	3248.1
9645.4	30°	8109.4	6470.4	4433.9	3862.5	3615.4	3454.3	3310.4	3230.9	3155.7	3117.0
10161.0	32.5°	8442.4	6590.7	4315.7	3718.5	3469.3	3314.7	3172.9	3099.8	3054.7	3054.7
10715.2	35°	8794.7	6674.4	4158.9	3551.0	3314.7	3166.4	3054.7	3011.8	3007.5	2981.7
11301.7	37.5°	9166.4	6728.2	3967.7	3379.1	3162.1	3022.5	2988.1	2936.6	2893.6	2837.8
11946.1	40°	9557.3	6781.9	3737.9	3200.8	3001.0	2923.7	2908.7	2839.9	2717.5	2580.0
12676.5	42.5°	10032.1	6818.4	3499.4	3022.5	2831.3	2805.5	2827.0	2708.9	2513.4	2410.3
13557.3	45°	10582.0	6878.5	3280.3	2846.4	2657.3	2657.3	2747.5	2592.9	2431.8	2367.3
14562.6	47.5°	11295.2	7018.2	3076.2	2653.0	2496.2	2539.2	2571.4	2453.2	2363.0	2283.5
15787.1	50°	12326.3	7353.3	2865.7	2457.5	2373.8	2459.7	2414.6	2345.8	2240.6	2176.1
17733.4	52.5°	13606.7	7550.9	2678.8	2281.4	2268.5	2354.4	2290.0	2225.5	2146.0	2060.1
19209.2	55°	14478.8	7587.4	2522.0	2152.5	2197.6	2189.0	2165.4	2107.4	2064.4	1950.6
20665.6	57.5°	15454.1	7660.5	2393.1	2075.2	2152.5	2058.0	2049.4	2000.0	1944.1	1866.8
22442.2	60°	16620.6	7774.3	2281.4	2045.1	2113.8	1972.0	1929.1	1909.7	1853.9	1815.2
24579.7	62.5°	17892.3	7877.4	2167.5	2049.4	2068.7	1888.3	1823.8	1817.4	1783.0	1770.1
26586.1	65°	18760.2	7596.0	2025.7	2045.1	1997.8	1802.3	1720.7	1718.6	1690.6	1686.3
27456.1	67.5°	18457.3	6704.5	1834.6	1984.9	1924.8	1716.4	1626.2	1617.6	1581.1	1583.2
26547.4	70°	16940.7	5432.8	1570.3	1836.7	1834.6	1639.1	1527.4	1499.4	1450.0	1458.6
23082.4	72.5°	14096.5	4025.7	1215.9	1589.7	1690.6	1568.2	1413.5	1368.4	1306.1	1314.7
17039.5	75°	10180.3	2736.8	885.1	1209.4	1471.5	1484.4	1301.8	1224.5	1149.3	1162.2
9484.3	77.5°	5209.4	1551.0	650.9	833.5	1155.7	1349.1	1200.8	1097.7	1080.5	1200.8
2734.7	80°	1699.2	777.6	451.1	584.3	758.3	1104.2	1052.6	934.5	930.2	958.1
573.6	82.5°	507.0	328.7	290.0	384.5	418.9	846.4	908.7	706.8	607.9	640.2
191.2	85°	174.0	159.0	165.4	191.2	199.8	496.2	635.9	468.3	442.5	487.6
43.0	87.5°	40.8	55.9	47.3	43.0	43.0	120.3	247.0	195.5	270.7	180.4
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>
4882.8
3860.3
3508.0
3555.3
3675.6
3778.7
3836.7
3828.1
3733.6
3574.6
3402.7
3245.9
3114.9
3056.9
2975.3
2829.2
2560.6
2412.4
2378.1
2281.4
2169.7
2042.9
1952.7
1841.0
1826.0
1770.1
1684.2
1583.2
1467.2
1312.5
1166.5
1183.7
822.8
661.6
481.2
174.0
0.0

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