

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: P944188

Luminaire Tested: **GALN-SB9A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944188
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-SB9A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA 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: 30935 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

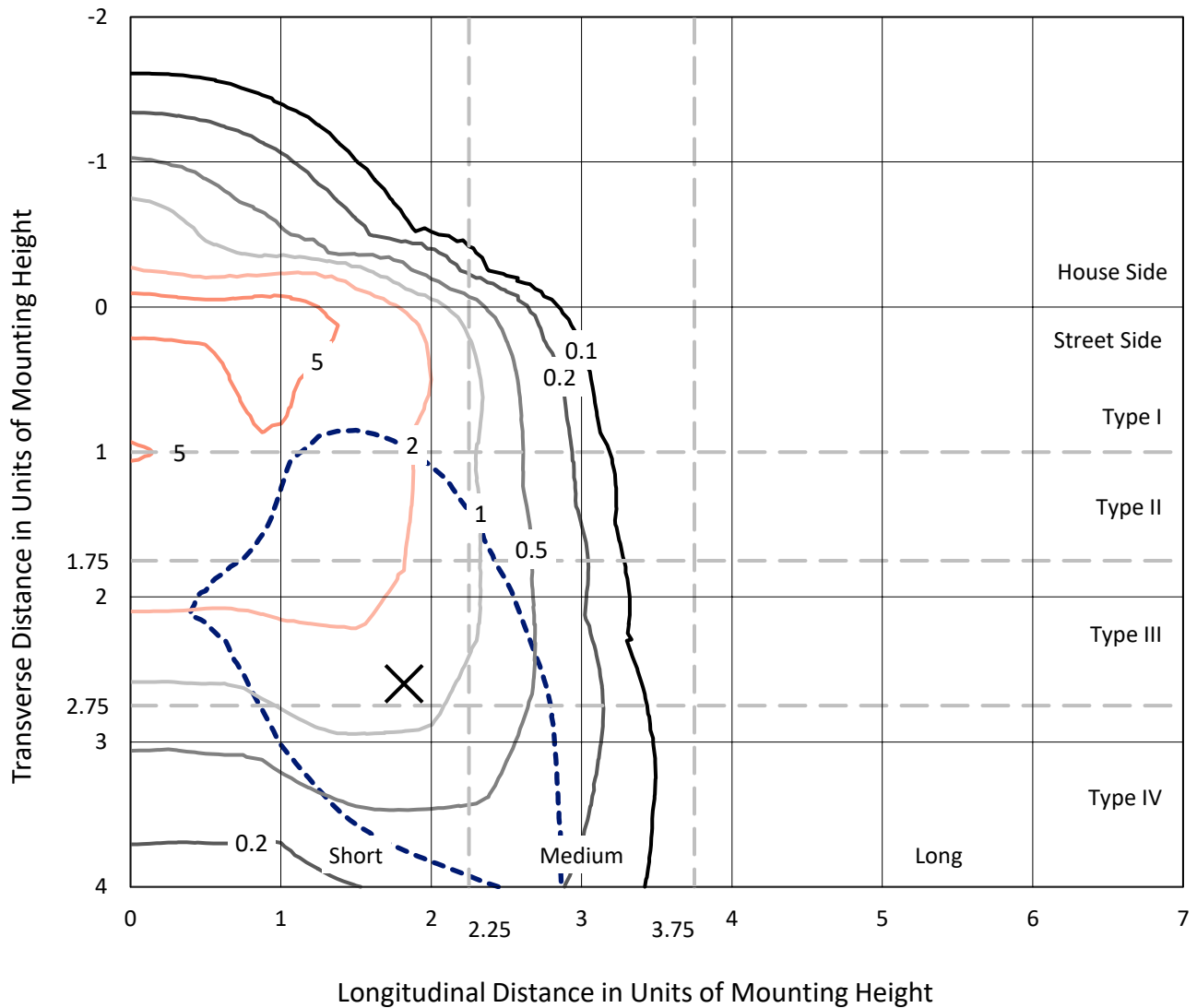
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

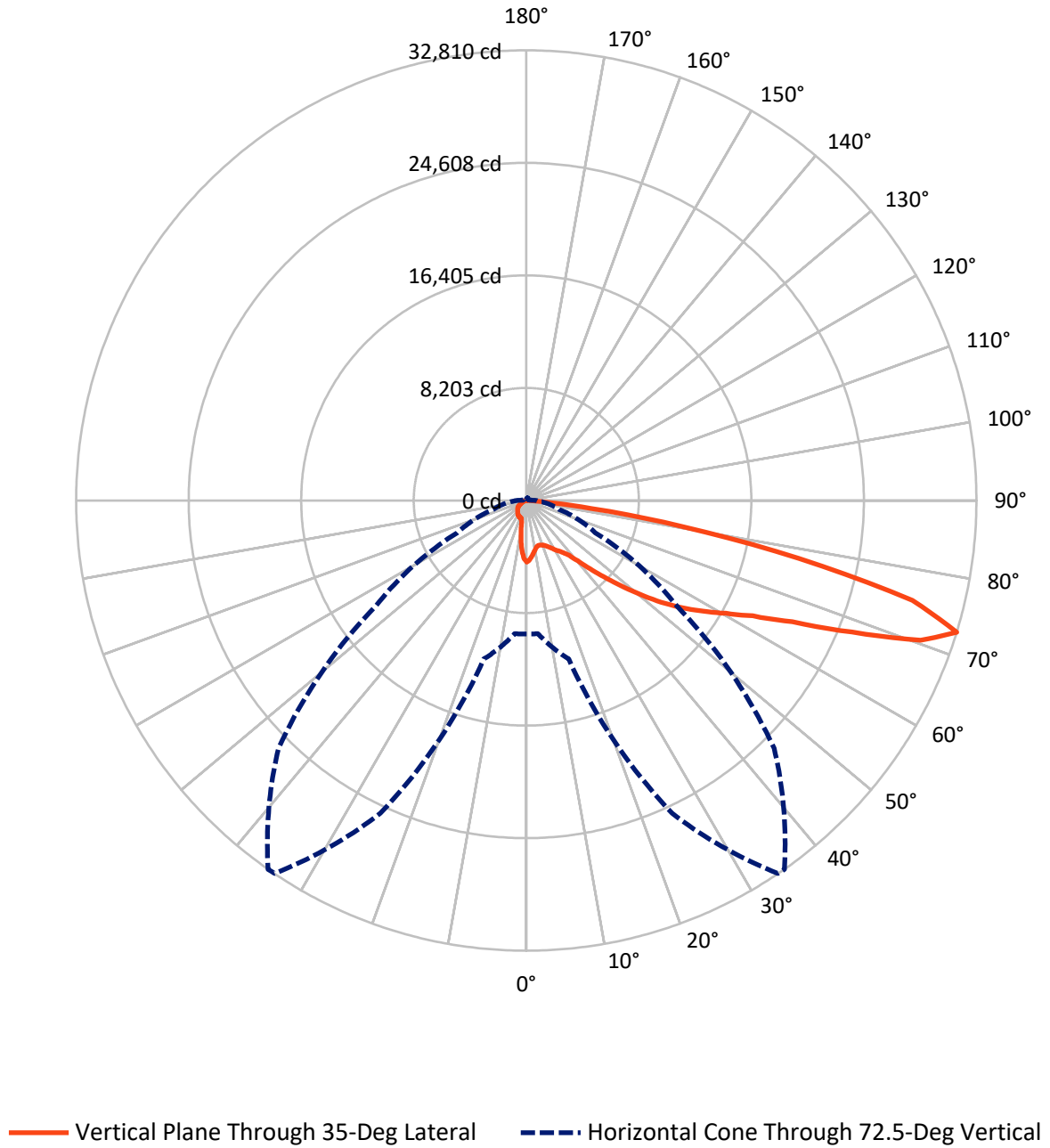
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	3481.6	0.0	3481.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	27453.4	0.0	27453.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	30935.0	0.0	30935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.4	1.2
10°-20°	861.9	2.8
20°-30°	1400.1	4.5
30°-40°	2336.1	7.6
40°-50°	4419.9	14.3
50°-60°	7023.2	22.7
60°-70°	8688.2	28.1
70°-80°	5400.7	17.5
80°-90°	436.5	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°	30935.0	100.0
0°-180°	30935.0	100.0

Coefficient of Utilization



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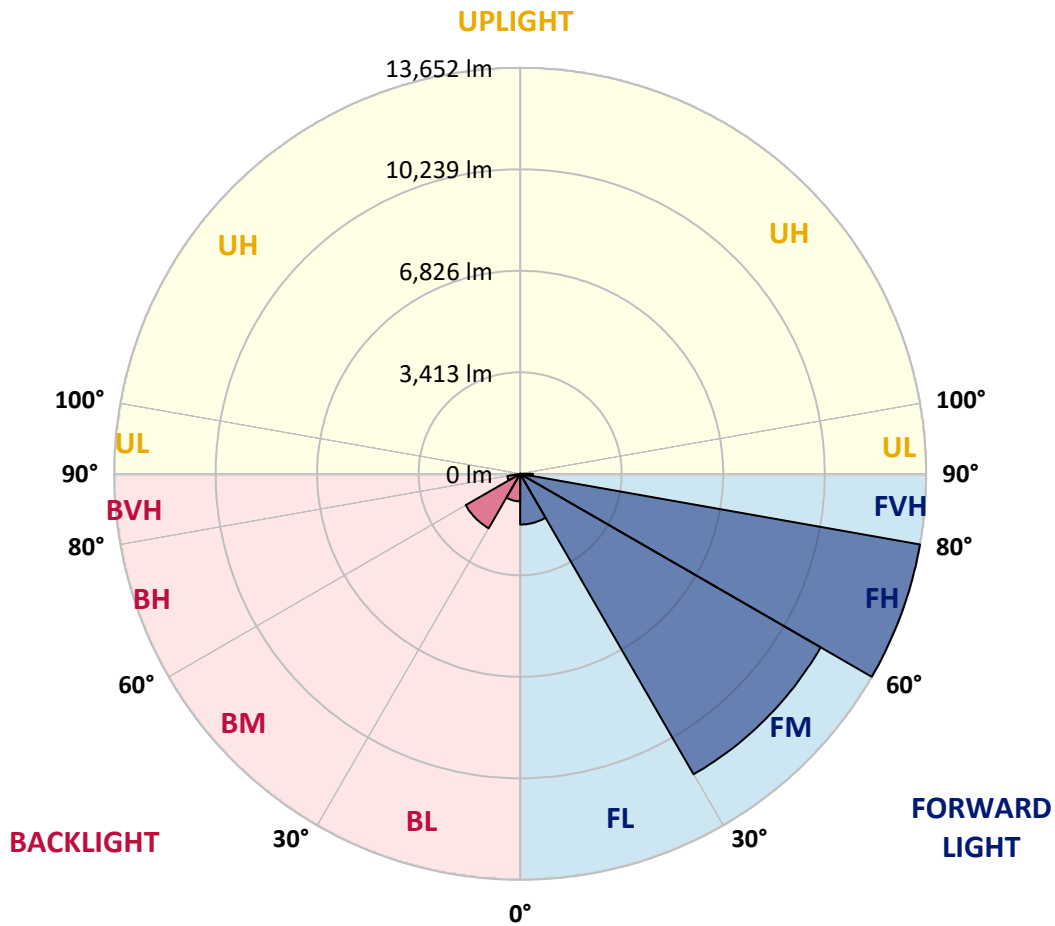
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.3	5.5			
FM (30°-60°)	11665.6	37.7			
FH (60°-80°)	13652.0	44.1			G5
FVH (80°-90°)	430.5	1.4			G3/500
BL (0°-30°)	925.1	3.0	B2/1000		
BM (30°-60°)	2113.6	6.8	B2/2500		
BH (60°-80°)	436.9	1.4	B1/500		G1/500
BVH (80°-90°)	5.9	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5
2.5°	4284.0	4320.3	4327.1	4338.5	4338.5	4352.1	4374.7	4406.5	4458.6	4485.8
5°	3948.6	3975.8	4009.8	4037.0	4089.1	4095.9	4184.3	4270.4	4390.6	4481.3
7.5°	3610.8	3642.6	3687.9	3753.6	3821.6	3842.0	3975.8	4120.8	4311.3	4481.3
10°	3372.8	3375.1	3415.9	3481.6	3590.4	3615.4	3778.6	3984.8	4222.8	4454.1
12.5°	3239.1	3255.0	3273.1	3323.0	3427.2	3443.1	3617.6	3860.2	4134.4	4438.2
15°	3239.1	3250.4	3261.8	3286.7	3370.6	3384.2	3538.3	3780.8	4089.1	4445.0
17.5°	3273.1	3291.2	3282.2	3311.6	3400.0	3409.1	3545.1	3758.2	4086.8	4488.1
20°	3354.7	3368.3	3350.2	3368.3	3456.7	3474.8	3615.4	3801.2	4125.4	4562.9
22.5°	3483.9	3490.7	3447.6	3461.2	3551.9	3574.6	3737.8	3923.6	4218.3	4683.0
25°	3647.1	3660.7	3595.0	3610.8	3697.0	3724.2	3912.3	4107.2	4365.7	4848.5
27.5°	3835.2	3842.0	3785.4	3783.1	3894.2	3932.7	4123.1	4333.9	4562.9	5057.0
30°	4050.6	4071.0	4016.6	4007.5	4148.0	4179.8	4367.9	4612.7	4853.0	5369.8
32.5°	4220.6	4236.4	4204.7	4227.4	4370.2	4395.1	4664.9	5007.1	5308.6	5814.1
35°	4465.4	4474.5	4401.9	4442.7	4605.9	4669.4	5070.6	5560.2	5882.1	6371.7
37.5°	5351.7	5351.7	5043.4	4841.7	4998.1	5054.7	5625.9	6256.1	6589.3	7119.7
40°	6577.9	6557.5	6106.5	5693.9	5673.5	5784.6	6417.0	7133.3	7502.8	8017.3
42.5°	7885.8	7854.1	7239.8	6831.8	6763.8	6802.3	7330.5	8214.5	8590.8	9112.1
45°	9046.4	9037.3	8475.2	7926.6	7804.2	7926.6	8470.6	9479.3	9749.0	10297.6
47.5°	10018.8	10018.8	9608.5	9250.4	9186.9	9259.4	10014.2	10882.4	10857.5	11560.1
50°	11138.5	11129.5	10739.6	10585.5	10651.2	10753.2	11791.3	12360.3	12004.4	12800.0
52.5°	11922.8	11977.2	11843.5	11818.5	12154.0	12330.8	13595.6	13806.4	13031.2	13976.4
55°	12543.9	12607.3	12761.5	12936.0	13582.0	13813.2	15343.2	15177.8	13890.3	14996.4
57.5°	13423.4	13332.7	13570.7	13915.2	14960.2	15239.0	17036.5	16472.1	14581.6	15823.8
60°	14491.0	14504.6	14545.4	14980.6	16336.1	16694.2	18704.8	17696.1	15025.9	16331.5
62.5°	15773.9	15794.3	15878.2	16546.9	18183.4	18521.1	20481.8	18698.0	15229.9	16188.7
65°	15685.5	15771.6	16707.8	18994.9	20991.8	21325.0	22555.9	19400.6	14921.6	14883.1
67.5°	14289.2	14429.8	15996.1	21918.9	25226.0	25597.8	25062.8	19538.9	13591.1	11573.7
70°	12457.7	12507.6	14391.2	24548.3	30128.9	30505.2	27306.9	18017.9	10313.5	6455.5
72.5°	9728.6	9740.0	11950.0	25158.0	32790.0	32810.4	25545.6	13375.8	5546.6	2479.8
75°	6949.7	6881.7	8003.7	20402.5	28848.2	29079.4	19151.3	6274.2	2119.4	1171.9
77.5°	3726.4	3801.2	4528.9	12099.6	19928.8	20323.2	10449.5	1808.8	1078.9	797.9
80°	1151.5	1214.9	1856.4	5539.8	11288.1	11526.1	3873.8	804.7	752.5	568.9
82.5°	362.7	376.3	865.9	2327.9	4685.3	4794.1	1122.0	455.6	514.5	376.3
85°	104.3	106.5	385.3	868.1	1158.3	1180.9	315.1	176.8	294.7	233.5
87.5°	11.3	36.3	145.1	145.1	102.0	99.7	34.0	38.5	83.9	29.5
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°
4483.5	0°	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5	4483.5
4503.9	2.5°	4492.6	4494.9	4465.4	4415.5	4361.1	4315.8	4259.1	4213.8	4182.0	4173.0
4544.7	5°	4524.3	4508.5	4424.6	4272.7	4091.4	3935.0	3760.4	3622.2	3531.5	3493.0
4587.8	7.5°	4571.9	4526.6	4343.0	4043.8	3697.0	3388.7	3075.9	2833.4	2679.2	2602.2
4628.6	10°	4612.7	4522.1	4207.0	3712.8	3182.4	2715.5	2293.9	2001.5	1838.3	1761.2
4676.2	12.5°	4651.3	4519.8	4030.2	3320.7	2602.2	2031.0	1638.8	1493.8	1448.4	1432.5
4753.3	15°	4723.8	4526.6	3808.0	2871.9	2024.2	1534.6	1391.7	1389.5	1398.5	1394.0
4871.1	17.5°	4823.5	4533.4	3556.4	2395.9	1561.8	1353.2	1346.4	1366.8	1380.4	1373.6
5018.5	20°	4952.7	4560.6	3289.0	1924.4	1341.9	1307.9	1323.7	1341.9	1353.2	1341.9
5215.7	22.5°	5134.1	4608.2	2996.6	1545.9	1271.6	1280.7	1294.3	1314.7	1326.0	1310.1
5467.3	25°	5356.2	4683.0	2708.7	1344.1	1237.6	1248.9	1269.3	1292.0	1305.6	1289.7
5784.6	27.5°	5644.1	4803.1	2443.5	1298.8	1203.6	1210.4	1239.9	1273.9	1292.0	1271.6
6235.7	30°	6061.1	5000.3	2214.6	1319.2	1183.2	1167.3	1208.1	1255.7	1276.1	1258.0
6849.9	32.5°	6614.2	5279.1	2074.0	1350.9	1174.1	1117.5	1156.0	1217.2	1251.2	1239.9
7652.4	35°	7339.6	5703.0	2019.6	1387.2	1167.3	1065.3	1092.5	1158.3	1217.2	1228.5
8663.3	37.5°	8219.0	6292.3	2035.5	1403.1	1146.9	1022.3	1035.9	1092.5	1169.6	1205.9
9801.2	40°	9218.6	6979.1	2126.2	1387.2	1124.3	986.0	988.3	1031.3	1099.3	1153.7
11025.2	42.5°	10250.0	7781.6	2293.9	1328.3	1103.9	954.3	947.5	976.9	1022.3	1060.8
12246.9	45°	11231.5	8606.6	2459.4	1246.7	1078.9	922.5	906.7	918.0	927.1	942.9
13437.0	47.5°	12088.3	9186.9	2411.8	1171.9	1044.9	886.3	859.1	854.5	827.3	825.1
14500.0	50°	12679.9	9313.8	2142.0	1097.1	995.1	845.5	802.4	775.2	727.6	704.9
15295.6	52.5°	12868.0	8812.9	1749.9	1022.3	913.5	791.1	729.9	686.8	627.9	607.5
15753.5	55°	12618.7	7831.4	1398.5	931.6	800.1	718.5	650.5	593.9	546.3	521.3
15803.4	57.5°	12008.9	6582.5	1106.1	825.1	680.0	636.9	568.9	512.3	471.5	446.5
15250.3	60°	10998.0	5227.0	874.9	698.1	580.3	548.5	478.3	442.0	405.7	376.3
13822.3	62.5°	9463.4	3731.0	686.8	553.1	485.1	448.8	408.0	380.8	337.7	296.9
11254.1	65°	7384.9	2282.6	530.4	405.7	389.9	371.7	346.8	321.9	269.7	228.9
7341.8	67.5°	4658.1	1081.2	378.5	306.0	308.3	299.2	287.9	267.5	228.9	192.7
3289.0	70°	2051.4	523.6	249.3	233.5	228.9	228.9	238.0	231.2	194.9	160.9
1142.4	72.5°	698.1	281.1	185.9	176.8	165.5	163.2	199.5	192.7	156.4	124.7
568.9	75°	364.9	188.1	136.0	126.9	99.7	120.1	158.7	149.6	111.1	81.6
376.3	77.5°	238.0	133.7	92.9	81.6	56.7	79.3	117.9	104.3	65.7	40.8
247.1	80°	149.6	88.4	54.4	38.5	27.2	43.1	63.5	45.3	24.9	9.1
145.1	82.5°	79.3	45.3	20.4	13.6	11.3	13.6	15.9	11.3	4.5	0.0
74.8	85°	31.7	15.9	6.8	4.5	2.3	0.0	4.5	2.3	0.0	0.0
13.6	87.5°	11.3	2.3	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>
4483.5
4188.8
3506.6
2613.5
1763.5
1428.0
1391.7
1371.3
1339.6
1307.9
1287.5
1271.6
1255.7
1239.9
1228.5
1214.9
1171.9
1076.7
952.0
822.8
707.2
605.2
521.3
442.0
369.5
290.1
222.1
188.1
154.1
117.9
74.8
36.3
6.8
0.0
0.0
0.0
0.0

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