

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: P944027

Luminaire Tested: **GALN-SB8D-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944027
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-SB8D-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 87114 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

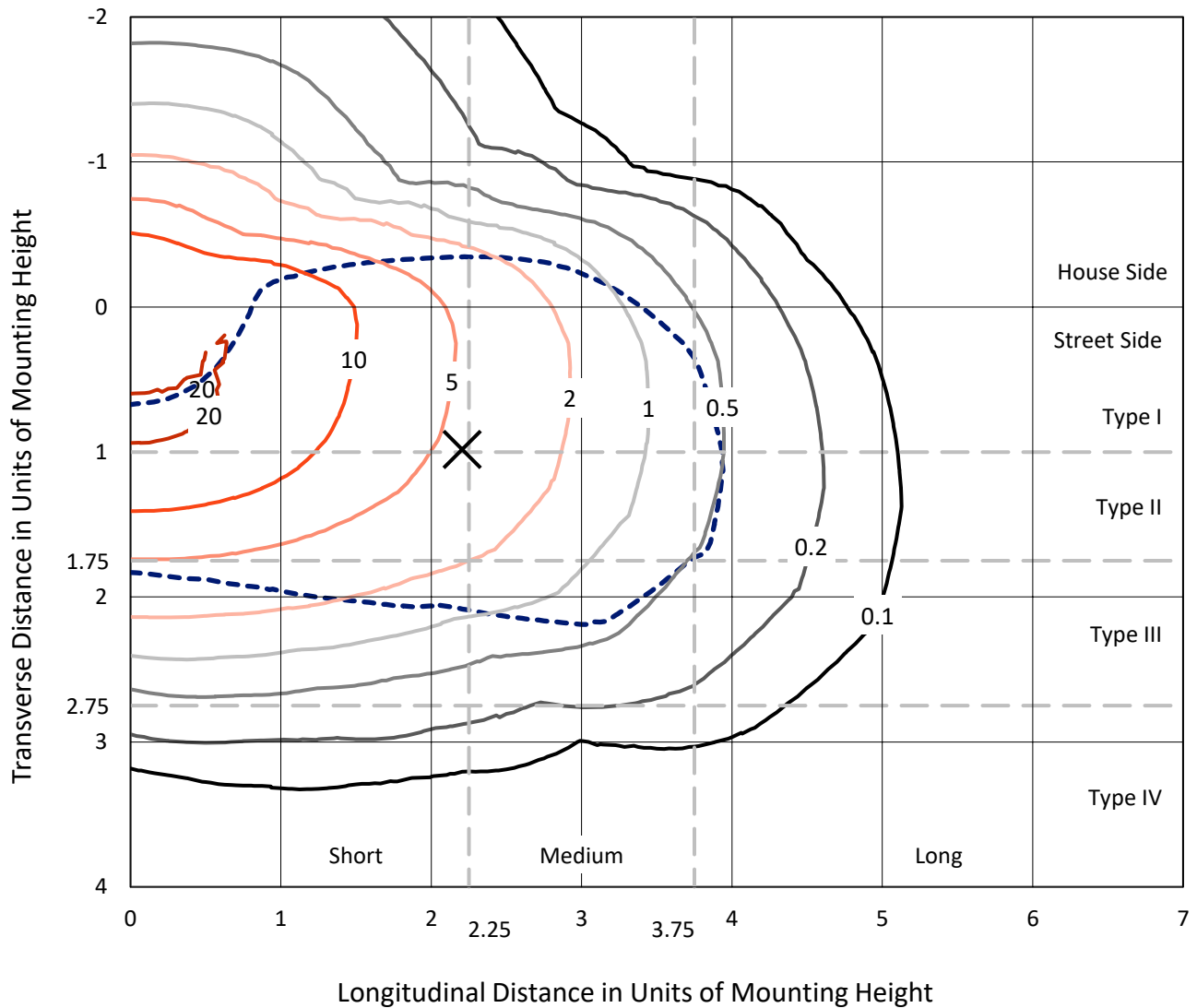
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

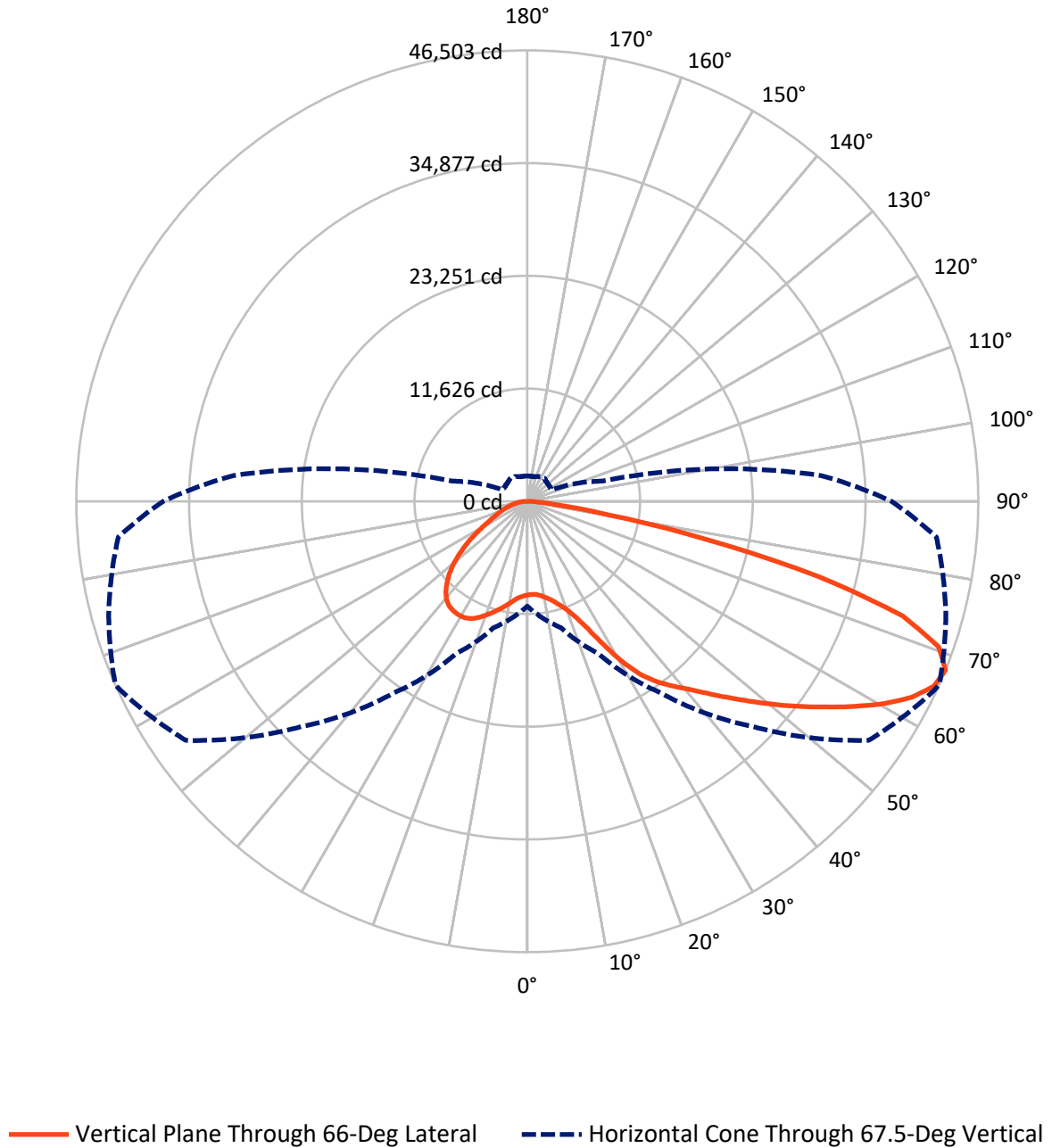
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21660.7	0.0	21660.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	65453.4	0.0	65453.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	87114.0	0.0	87114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	958.0	1.1
10°-20°	3165.0	3.6
20°-30°	6100.3	7.0
30°-40°	10696.1	12.3
40°-50°	15901.5	18.3
50°-60°	20156.8	23.1
60°-70°	19722.9	22.6
70°-80°	9408.0	10.8
80°-90°	1005.5	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°	87114.0	100.0
0°-180°	87114.0	100.0

Coefficient of Utilization



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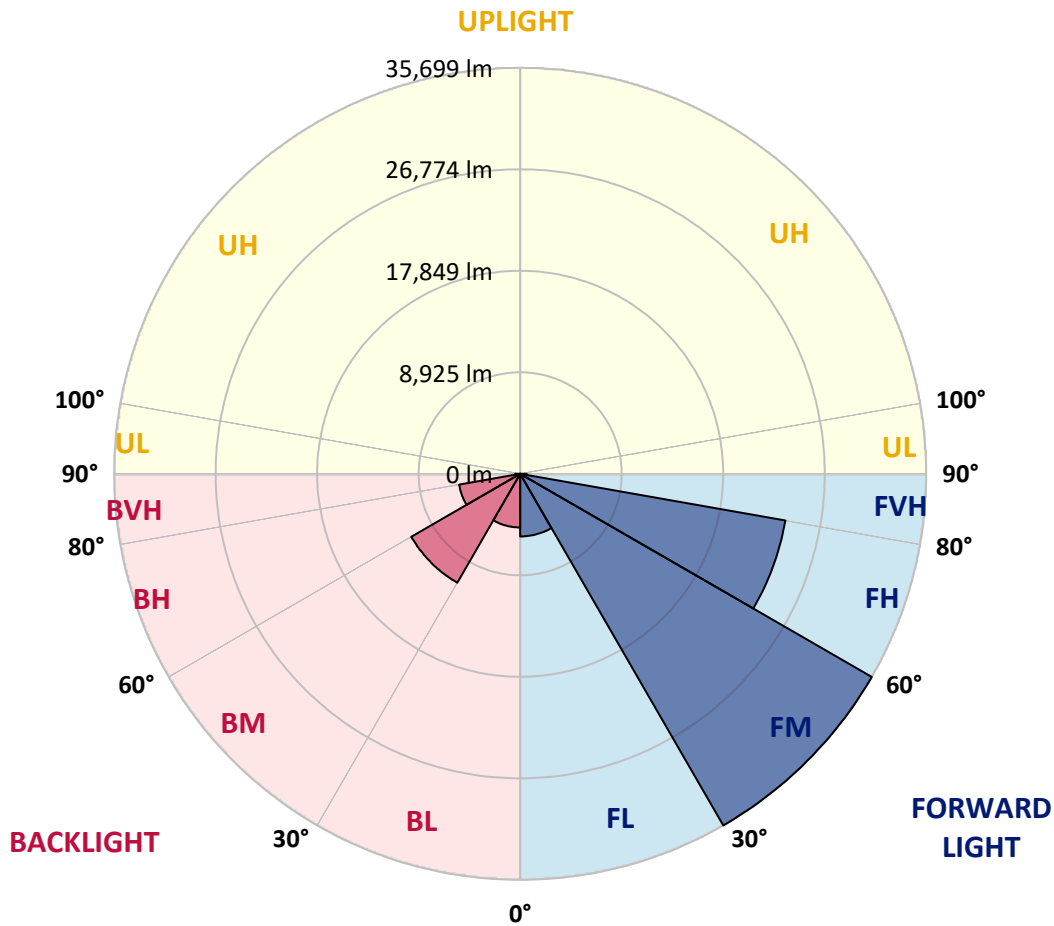
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5504.7	6.3			
FM (30°-60°)	35698.6	41.0			
FH (60°-80°)	23680.0	27.2			G5
FVH (80°-90°)	570.1	0.7			G4/750
BL (0°-30°)	4718.5	5.4	B4/5000		
BM (30°-60°)	11055.8	12.7	B5		
BH (60°-80°)	5450.9	6.3	B5		G5
BVH (80°-90°)	435.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1
2.5°	9561.4	9616.3	9602.6	9579.7	9575.1	9584.3	9598.0	9611.7	9607.2	9630.1
5°	9533.9	9588.9	9584.3	9584.3	9602.6	9639.2	9662.1	9685.0	9662.1	9689.6
7.5°	9552.2	9593.4	9611.7	9630.1	9675.8	9744.5	9799.4	9849.8	9822.3	9854.3
10°	9785.7	9817.7	9836.0	9836.0	9868.1	9945.9	10000.8	10092.3	10069.4	10119.8
12.5°	10211.3	10243.4	10243.4	10225.1	10248.0	10298.3	10316.6	10417.3	10376.1	10458.5
15°	10733.1	10797.2	10746.8	10714.8	10724.0	10774.3	10769.7	10847.5	10806.3	10875.0
17.5°	11309.8	11392.2	11309.8	11305.2	11286.9	11341.9	11346.4	11415.1	11341.9	11392.2
20°	11991.8	12106.2	12037.6	12060.5	12019.3	12042.1	12065.0	12165.7	12051.3	12087.9
22.5°	12953.0	13090.3	13017.1	13104.0	13076.6	13058.2	13053.7	13232.2	13053.7	13067.4
25°	14353.5	14518.3	14390.2	14509.2	14509.2	14568.7	14637.3	14866.2	14568.7	14481.7
27.5°	16422.4	16587.1	16335.4	16408.6	16385.7	16532.2	16459.0	17026.5	16706.1	16564.2
30°	18912.3	19205.2	18729.2	18710.9	18688.0	18921.4	19026.7	19402.0	19077.0	18935.1
32.5°	21603.5	21910.2	21342.7	21177.9	21090.9	21232.8	21145.8	21447.9	21223.7	21004.0
35°	24450.5	24752.5	24212.4	23892.1	23544.2	23246.7	22935.5	23013.3	22802.7	22468.6
37.5°	27141.7	27695.6	27123.4	26780.2	26139.4	25558.1	24688.5	24326.9	24130.1	23823.4
40°	29883.4	30199.2	29764.4	29471.4	28775.7	27864.9	26473.5	25709.1	25443.7	25146.2
42.5°	31901.8	32203.9	31970.5	31769.1	31224.4	30167.2	28368.4	27411.8	27027.3	26693.2
45°	33503.8	33728.1	33581.6	33654.8	33421.4	32396.2	30331.9	29238.0	28839.8	28432.5
47.5°	34149.2	34387.2	34620.6	35055.4	35453.6	34698.4	32441.9	31215.3	30794.2	30377.7
50°	34075.9	34318.5	34995.9	35920.5	37156.3	36904.5	34666.4	33320.7	32931.7	32455.7
52.5°	33490.1	33764.7	34634.3	36172.2	38140.3	38556.8	36932.0	35494.8	35128.6	34561.1
55°	31952.2	32117.0	33421.4	35600.1	38373.8	39710.2	39151.8	37810.8	37444.6	36652.8
57.5°	29100.7	29338.7	31238.2	34057.6	37787.9	40492.9	41101.7	40245.8	39893.3	38753.6
60°	25379.6	25759.5	27933.6	31467.0	36295.8	40488.3	42873.0	42639.5	42346.6	40822.5
62.5°	21168.7	21608.1	23699.8	27805.4	33686.9	39339.5	43980.6	44644.3	44493.2	42731.1
65°	16257.6	16559.7	18642.2	23068.2	29627.1	36872.5	44108.8	46012.8	46040.3	44182.0
67.5°	10824.7	11694.3	13502.2	17310.3	24189.6	32840.1	42982.8	46237.1	46502.5	44680.9
70°	5281.9	6426.1	8197.4	11250.3	17310.3	26656.6	40039.8	44397.1	44987.6	43225.4
72.5°	2192.4	2563.1	3528.9	5551.9	9936.7	17987.7	34126.3	39408.2	40502.1	38300.5
75°	1478.4	1602.0	2018.5	2846.9	4526.7	8870.3	24610.6	29384.5	31146.6	28926.8
77.5°	1139.7	1217.5	1469.2	1991.0	2691.3	3355.0	13172.7	17708.5	18619.3	17237.1
80°	897.1	956.6	1098.5	1450.9	1908.6	1794.2	4490.1	8023.5	8549.9	7172.2
82.5°	778.1	801.0	787.2	984.1	1267.8	1048.1	1473.8	2961.3	3268.0	2370.9
85°	563.0	627.1	654.5	608.7	672.8	530.9	604.2	1048.1	1153.4	1029.8
87.5°	228.9	338.7	416.5	393.6	247.2	151.0	187.7	306.7	352.4	384.5
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°
9662.1	0°	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1	9662.1
9666.7	2.5°	9671.2	9703.3	9726.2	9753.6	9771.9	9799.4	9854.3	9886.4	9890.9	9913.8
9739.9	5°	9758.2	9804.0	9854.3	9927.6	10009.9	10078.6	10183.9	10257.1	10284.6	10307.5
9918.4	7.5°	9945.9	10009.9	10101.5	10229.6	10348.6	10440.2	10568.3	10655.3	10742.3	10774.3
10202.2	10°	10225.1	10316.6	10449.3	10623.3	10751.4	10870.4	11003.2	11076.4	11163.4	11200.0
10540.9	12.5°	10572.9	10669.0	10843.0	11085.5	11204.6	11286.9	11332.7	11314.4	11332.7	11364.7
10948.2	15°	10971.1	11076.4	11273.2	11534.1	11616.5	11543.2	11442.6	11351.0	11337.3	11346.4
11442.6	17.5°	11442.6	11520.4	11749.2	11968.9	11909.4	11607.3	11387.6	11241.2	11167.9	11145.0
12074.2	20°	12101.6	12101.6	12289.3	12426.6	12028.4	11515.8	11172.5	10934.5	10783.5	10719.4
12934.7	22.5°	12902.6	12829.4	12948.4	12852.3	12005.5	11259.5	10783.5	10371.5	10142.7	10051.1
14138.4	25°	13918.7	13831.8	13799.7	13204.7	11840.8	10852.1	10078.6	9579.7	9378.3	9328.0
15873.1	27.5°	15452.0	15232.3	14815.8	13396.9	11538.7	10211.3	9254.7	8792.5	8678.0	8682.6
18102.1	30°	17493.4	17054.0	16033.3	13429.0	11044.4	9305.1	8412.6	8083.0	8028.1	8051.0
19974.1	32.5°	19383.7	18967.2	17278.3	13282.5	10284.6	8417.1	7657.4	7437.7	7355.3	7382.7
21402.2	35°	20866.6	20752.2	18431.7	13076.6	9350.9	7584.1	6980.0	6792.3	6632.1	6595.5
22747.8	37.5°	22267.2	22221.4	19296.7	12788.2	8426.3	6993.7	6435.3	6188.1	5954.7	5826.5
24235.3	40°	23805.1	23759.3	19864.3	12344.2	7607.0	6481.1	5945.6	5620.6	5332.2	5098.8
25919.7	42.5°	25535.2	25265.2	20134.3	11708.0	6911.3	6046.2	5547.4	5108.0	4728.1	4512.9
27823.7	45°	27425.5	26816.8	20129.7	10897.9	6325.4	5648.0	5121.7	4499.2	4146.8	3945.4
29778.1	47.5°	29430.3	28299.7	19882.6	10000.8	5757.9	5208.7	4462.6	3986.6	3753.2	3629.6
31901.8	50°	31499.1	29686.6	19461.5	8971.0	5176.6	4709.8	4050.7	3725.7	3547.2	3432.8
34007.3	52.5°	33444.3	30945.2	18953.4	7803.8	4586.2	4224.6	3867.6	3615.8	3428.2	3300.0
36048.6	55°	35252.2	32030.0	18234.9	6609.2	4105.6	3899.6	3780.6	3570.1	3355.0	3203.9
38122.0	57.5°	36858.8	32734.9	16994.5	5487.8	3762.3	3675.3	3689.1	3492.3	3245.1	3117.0
40163.4	60°	38195.3	33252.1	15159.1	4448.9	3483.1	3455.7	3547.2	3345.8	3057.5	2911.0
41888.9	62.5°	38996.2	33242.9	12907.2	3643.3	3245.1	3254.3	3359.5	3162.7	2869.8	2732.5
42790.6	65°	38927.6	32428.2	10435.6	3117.0	3016.3	3025.4	3162.7	2961.3	2714.2	2631.8
42337.5	67.5°	37549.9	30441.8	8005.2	2773.7	2764.5	2805.7	2965.9	2824.0	2618.1	2608.9
39637.0	70°	33819.6	26317.9	5767.0	2499.1	2503.6	2563.1	2773.7	2737.1	2567.7	2586.0
33325.3	72.5°	27118.9	20065.7	3872.2	2210.7	2215.3	2311.4	2590.6	2668.4	2517.4	2759.9
23644.9	75°	18060.9	12513.6	2489.9	1904.0	1908.6	2032.2	2430.4	2535.7	2380.1	2750.8
12303.0	77.5°	8678.0	5625.2	1803.3	1602.0	1602.0	1716.4	2100.9	2270.2	2027.6	2137.5
3954.5	80°	2997.9	2114.6	1418.9	1290.7	1263.3	1341.1	1771.3	1968.1	1748.4	1611.1
1290.7	82.5°	1180.9	1098.5	1139.7	1002.4	910.8	961.2	1377.7	1624.8	1286.1	1162.6
727.7	85°	677.4	714.0	805.6	663.7	526.4	590.4	1011.5	1167.1	970.3	855.9
238.0	87.5°	183.1	251.7	370.7	343.3	238.0	251.7	480.6	645.4	558.4	430.2
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

180°
9662.1
9909.3
10302.9
10778.9
11218.3
11373.9
11378.5
11177.1
10705.7
10037.4
9337.1
8696.3
8128.8
7419.4
6623.0
5831.1
5121.7
4526.7
3936.2
3602.1
3391.6
3245.1
3144.4
3034.6
2846.9
2691.3
2627.2
2622.6
2581.4
2796.6
2773.7
1959.0
1510.4
1158.0
874.2
444.0
0.0

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