

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: P951335

Luminaire Tested: **GALN-SB5C-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38338 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

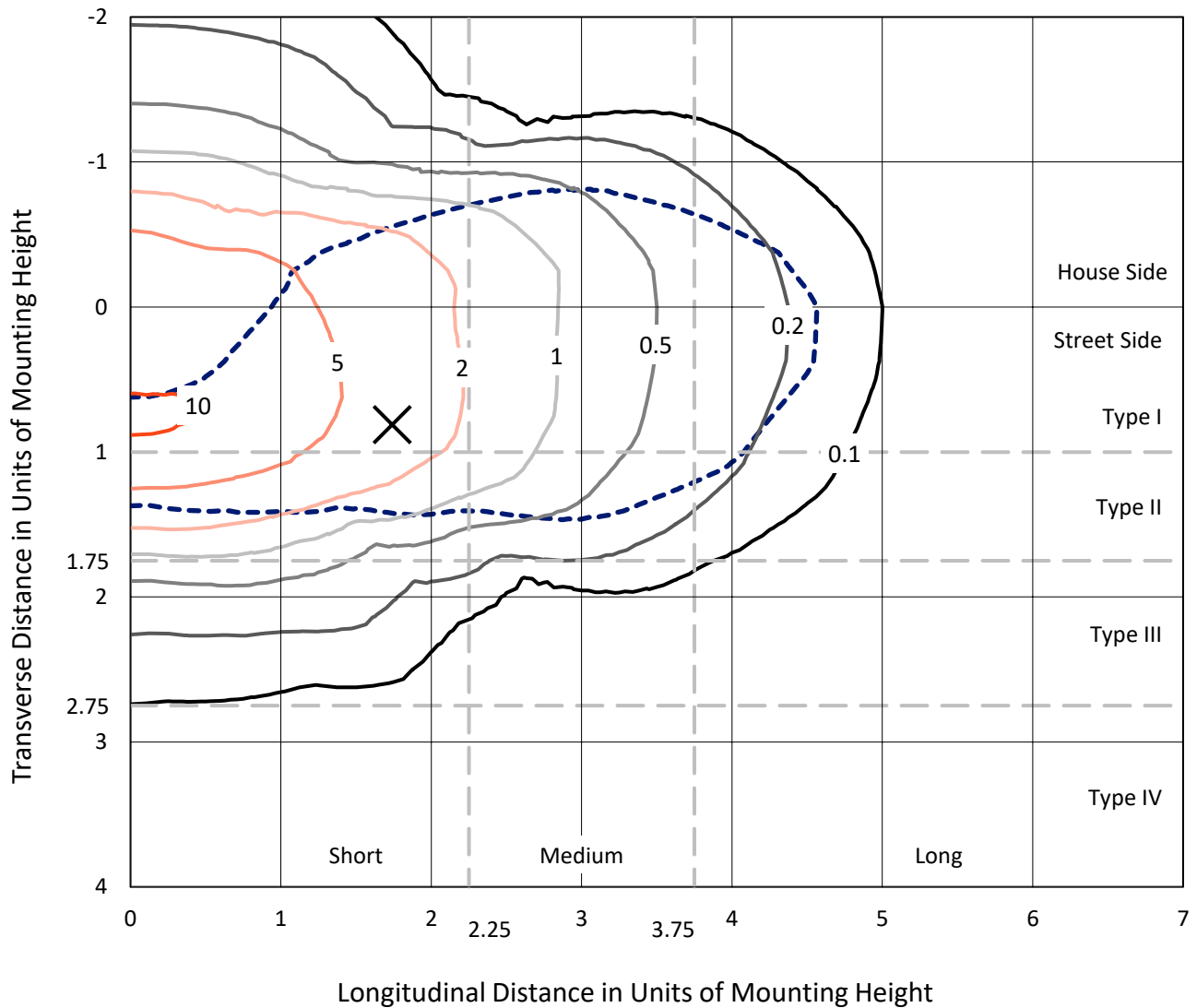
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

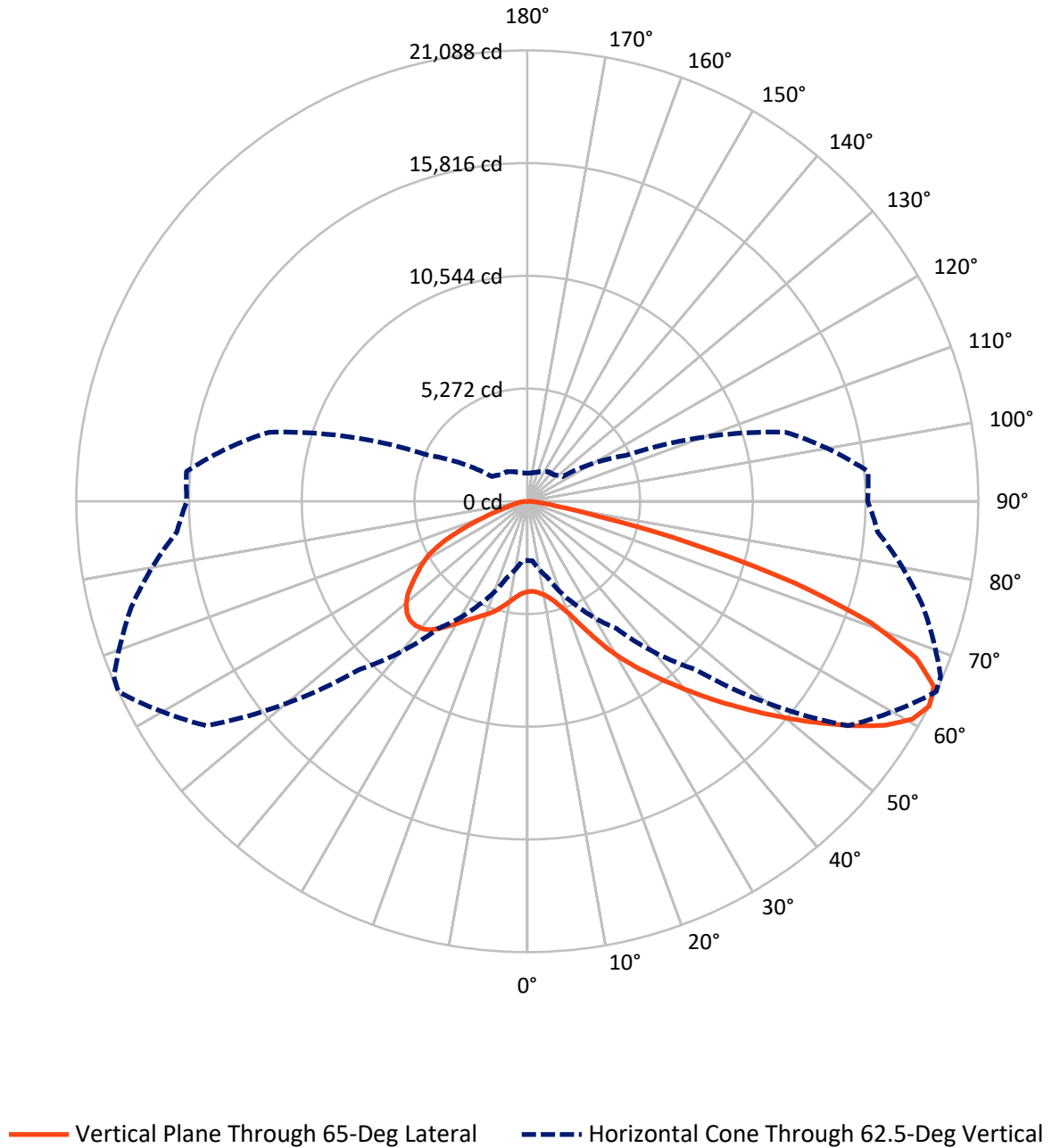
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12097.8	0.0	12097.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	26240.2	0.0	26240.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	38338.0	0.0	38338.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.2	1.1
10°-20°	1428.3	3.7
20°-30°	2896.1	7.6
30°-40°	5011.6	13.1
40°-50°	7584.1	19.8
50°-60°	8891.8	23.2
60°-70°	7454.7	19.4
70°-80°	4115.6	10.7
80°-90°	534.6	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°	38338.0	100.0
0°-180°	38338.0	100.0

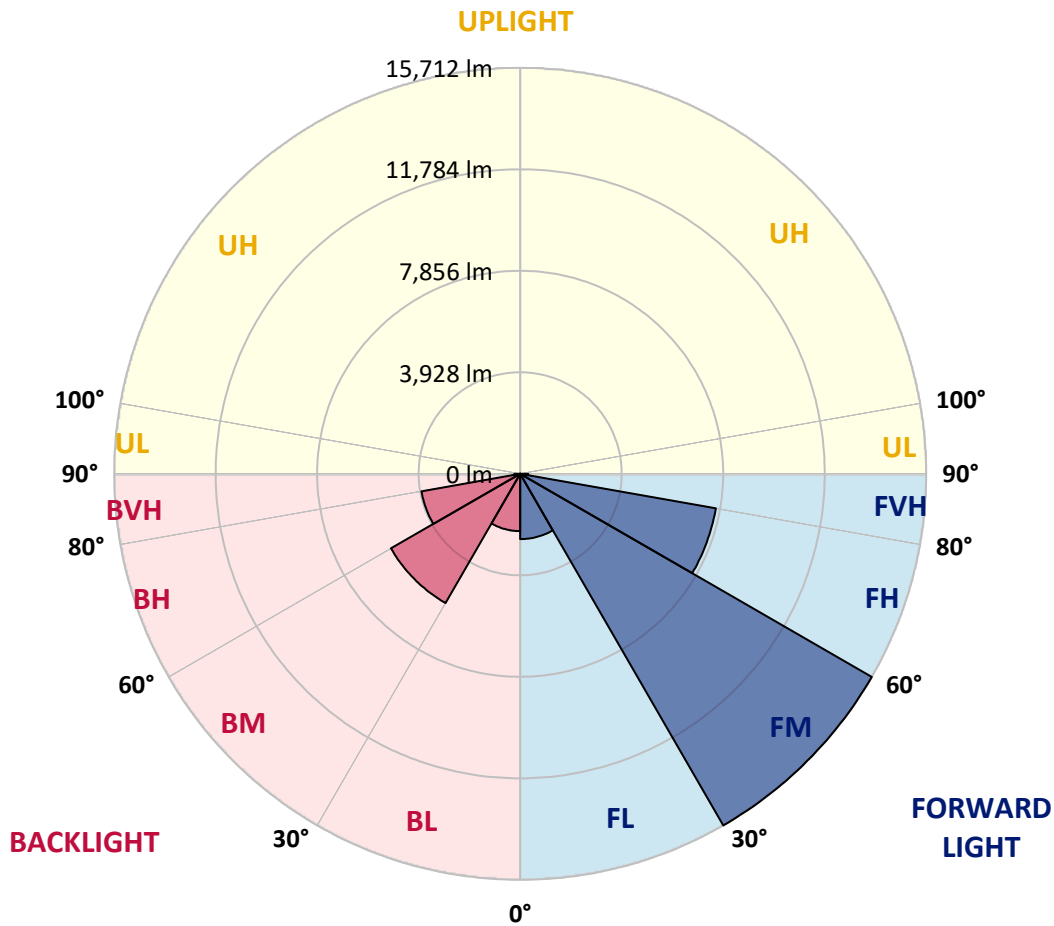


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2527.0	6.6			
FM	(30°-60°)	15712.2	41.0			
FH	(60°-80°)	7689.5	20.1			G4/12000
FVH	(80°-90°)	311.6	0.8			G3/500
BL	(0°-30°)	2218.6	5.8	B3/2500		
BM	(30°-60°)	5775.3	15.1	B4/8500		
BH	(60°-80°)	3880.9	10.1	B4/5000		G4/5000
BVH	(80°-90°)	223.0	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7
2.5°	4196.8	4184.9	4194.8	4194.8	4198.8	4196.8	4210.8	4214.7	4220.7	4232.6
5°	4155.1	4153.1	4171.0	4186.9	4202.8	4216.7	4234.6	4260.5	4264.5	4278.4
7.5°	4141.1	4129.2	4157.1	4176.9	4214.7	4248.5	4296.3	4340.0	4357.9	4363.9
10°	4248.5	4228.7	4254.5	4266.5	4298.3	4332.1	4387.8	4457.4	4477.3	4501.2
12.5°	4431.5	4409.7	4447.5	4465.4	4495.2	4525.0	4562.8	4630.4	4640.4	4684.1
15°	4682.2	4656.3	4680.2	4702.0	4751.8	4779.6	4817.4	4883.0	4883.0	4916.9
17.5°	5022.3	4988.5	5006.4	5014.3	5046.1	5087.9	5151.6	5209.2	5239.1	5227.1
20°	5529.5	5487.7	5487.7	5447.9	5436.0	5469.8	5553.3	5632.9	5664.7	5603.1
22.5°	6291.3	6231.6	6197.8	6062.5	6008.8	6012.8	6096.4	6193.8	6219.7	6110.3
25°	7259.9	7166.4	7120.7	6921.8	6800.5	6695.0	6760.7	6886.0	6921.8	6786.5
27.5°	8228.6	8234.5	8190.8	7952.1	7751.2	7558.3	7524.5	7655.7	7693.5	7540.4
30°	9587.1	9445.9	9362.3	9075.9	8789.5	8519.0	8379.7	8433.5	8443.4	8260.4
32.5°	10758.6	10722.8	10543.8	10293.2	9925.2	9501.6	9268.8	9183.3	9167.4	8906.8
35°	12093.2	12073.4	11884.4	11586.0	11188.2	10599.5	10179.8	9935.2	9915.3	9549.3
37.5°	13449.8	13449.8	13264.8	12938.6	12526.9	11790.9	11152.4	10764.6	10700.9	10223.6
40°	14531.8	14466.2	14500.0	14362.7	13891.3	13109.6	12232.5	11669.6	11584.1	11011.2
42.5°	15146.4	15124.5	15327.4	15480.6	15287.6	14663.1	13421.9	12650.2	12530.8	11878.4
45°	15283.6	15259.8	15621.8	16182.7	16453.2	16196.6	14714.8	13682.5	13537.3	12785.4
47.5°	14967.4	14919.6	15450.7	16335.8	17203.0	17654.6	16115.1	14802.3	14591.5	13668.6
50°	14016.6	13970.9	14774.5	15950.0	17455.7	18645.1	17634.7	15989.7	15667.5	14615.3
52.5°	11950.0	11971.9	13231.0	14846.1	17123.5	19261.7	18943.4	17240.8	16853.0	15584.0
55°	9308.6	9356.4	10903.8	12682.0	15794.8	19168.2	19836.5	18529.7	18143.9	16495.0
57.5°	6665.2	6876.0	8326.0	10086.3	13242.9	17686.4	20031.4	19755.0	19381.0	17489.5
60°	4320.2	4357.9	5849.7	7623.9	10084.3	15052.9	19635.6	20683.8	20391.4	18503.9
62.5°	2768.7	2794.6	3703.6	5332.6	7257.9	11136.5	18303.0	21087.6	20998.1	19174.2
65°	2034.8	2014.9	2488.3	3524.5	4889.0	6868.1	15715.3	20892.7	21069.7	19593.8
67.5°	1698.6	1670.8	1903.5	2440.5	3602.1	3900.5	11627.8	19625.7	20274.1	19546.1
70°	1547.5	1523.6	1664.8	1812.0	2810.5	2611.6	5861.6	17061.8	18060.3	19003.1
72.5°	1310.8	1269.0	1461.9	1609.1	2185.9	2002.9	2422.6	13105.7	14322.9	17262.7
75°	1016.4	988.5	1153.6	1416.2	1642.9	1563.4	1531.5	7958.1	9286.7	13350.3
77.5°	805.6	767.8	918.9	1103.9	1477.8	1179.5	1115.8	3427.1	4743.8	8523.0
80°	606.7	572.8	698.1	873.2	1135.7	889.1	722.0	1398.3	1788.1	4318.2
82.5°	431.6	401.8	487.3	640.5	763.8	797.6	443.6	783.7	881.1	1664.8
85°	276.5	258.6	326.2	401.8	485.3	513.2	270.5	409.7	449.5	686.2
87.5°	151.2	123.3	175.0	187.0	224.8	204.9	129.3	149.2	161.1	248.6
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°
4224.7	0°	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7
4232.6	2.5°	4240.6	4246.6	4266.5	4272.4	4286.3	4304.2	4316.2	4328.1	4328.1	4340.0
4296.3	5°	4298.3	4312.2	4354.0	4375.8	4411.6	4447.5	4469.3	4495.2	4511.1	4519.1
4397.7	7.5°	4409.7	4431.5	4491.2	4529.0	4590.7	4640.4	4674.2	4710.0	4718.0	4739.8
4538.9	10°	4560.8	4586.7	4654.3	4725.9	4799.5	4861.2	4893.0	4918.8	4928.8	4932.8
4719.9	12.5°	4733.9	4771.7	4859.2	4946.7	5024.3	5078.0	5085.9	5080.0	5052.1	5028.2
4942.7	15°	4946.7	4980.5	5078.0	5173.4	5249.0	5259.0	5209.2	5177.4	5143.6	5137.6
5191.3	17.5°	5201.3	5219.2	5308.7	5402.2	5408.1	5374.3	5300.7	5270.9	5239.1	5217.2
5515.6	20°	5497.7	5491.7	5555.3	5595.1	5553.3	5449.9	5338.5	5288.8	5257.0	5231.1
5913.4	22.5°	5851.7	5806.0	5798.0	5788.1	5676.7	5459.9	5308.7	5245.0	5195.3	5159.5
6468.3	25°	6366.9	6191.8	6070.5	6002.9	5752.2	5406.2	5213.2	5072.0	4978.5	4916.9
7146.6	27.5°	7011.3	6716.9	6410.6	6245.5	5752.2	5296.8	4982.5	4753.8	4600.6	4537.0
7802.9	30°	7625.9	7317.6	6866.1	6537.9	5738.3	5117.8	4610.6	4292.3	4113.3	4049.6
8363.8	32.5°	8151.0	7814.9	7349.4	6858.1	5704.5	4827.4	4149.1	3797.0	3624.0	3548.4
8918.8	35°	8638.3	8280.3	7834.8	7210.2	5615.0	4401.7	3641.9	3373.4	3180.4	3059.1
9483.7	37.5°	9137.6	8711.9	8294.2	7528.4	5453.9	3904.4	3252.0	3023.3	2796.6	2633.5
10084.3	40°	9680.6	9171.4	8785.5	7717.4	5189.4	3431.1	2949.7	2740.9	2500.2	2327.2
10776.5	42.5°	10315.1	9722.3	9332.5	7814.9	4827.4	3094.9	2752.8	2547.9	2321.2	2180.0
11518.4	45°	10977.4	10329.0	9831.7	7812.9	4423.6	2937.8	2689.2	2486.3	2235.7	2088.5
12280.2	47.5°	11671.6	10963.5	10263.4	7685.6	4073.5	2959.7	2653.4	2353.0	2076.5	1933.3
13050.0	50°	12367.7	11657.7	10681.0	7446.9	3924.3	2911.9	2520.1	2166.0	1839.8	1710.6
13772.0	52.5°	13057.9	12395.6	11041.1	7106.8	3773.2	2734.9	2349.0	1923.4	1742.4	1652.9
14517.9	55°	13752.1	13125.6	11432.9	6611.5	3395.3	2528.0	2062.6	1831.9	1664.8	1583.3
15247.8	57.5°	14448.3	13968.9	11804.8	6116.2	2919.9	2273.5	1905.5	1720.5	1587.2	1517.6
15858.5	60°	15172.3	14933.6	12188.7	5660.8	2450.5	1947.3	1790.1	1631.0	1495.7	1418.2
16445.2	62.5°	15918.1	15995.7	12489.1	5074.0	2018.9	1748.3	1686.7	1523.6	1392.3	1318.7
16930.5	65°	16670.0	17020.1	12686.0	4260.5	1637.0	1559.4	1575.3	1406.2	1273.0	1209.3
17286.6	67.5°	17236.9	17758.0	12630.3	3224.2	1342.6	1380.4	1436.1	1282.9	1157.6	1107.9
17228.9	70°	17300.5	17670.5	12081.3	2207.8	1123.8	1205.3	1280.9	1161.6	1032.3	996.5
16417.4	72.5°	16453.2	16477.1	10551.8	1442.0	950.8	1058.2	1117.8	1038.3	913.0	877.2
14362.7	75°	14231.4	13626.8	7747.2	950.8	795.6	909.0	964.7	909.0	787.7	795.6
10746.7	77.5°	10782.5	9650.7	4704.0	676.3	664.3	763.8	839.4	799.6	696.2	781.7
5404.2	80°	5555.3	5221.2	2098.4	505.2	525.1	610.6	690.2	638.5	551.0	525.1
1207.3	82.5°	1273.0	1479.8	827.4	362.0	379.9	439.6	527.1	479.4	395.8	334.2
503.2	85°	445.5	487.3	366.0	226.7	222.8	274.5	358.0	320.2	268.5	214.8
212.8	87.5°	141.2	185.0	137.2	91.5	95.5	123.3	165.1	151.2	125.3	81.5
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>
4224.7
4340.0
4523.0
4731.9
4922.8
5028.2
5137.6
5219.2
5233.1
5171.5
4940.7
4568.8
4087.4
3586.2
3098.9
2677.2
2361.0
2207.8
2112.3
1953.2
1718.5
1652.9
1575.3
1505.7
1412.2
1316.7
1207.3
1109.9
998.5
875.2
767.8
688.2
479.4
330.2
226.7
85.5
0.0

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