

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: EPHESUS

Report Number: P575133

Luminaire Tested: **EPH-VN-07-735-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575133
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

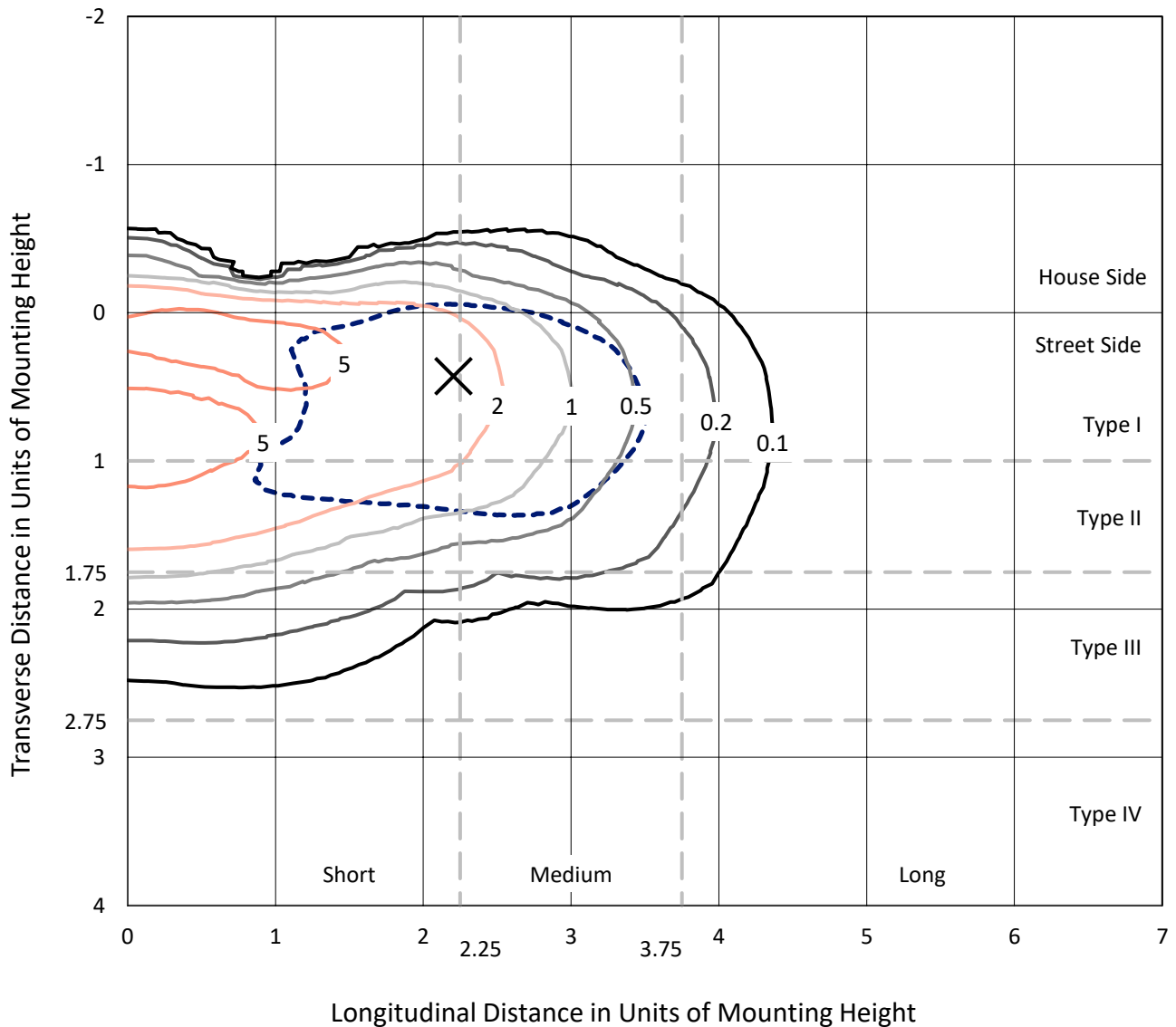
Lumens per Lamp: N/A
Luminaire Lumens: 34646.9 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.5
Input Voltage (V): 120
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

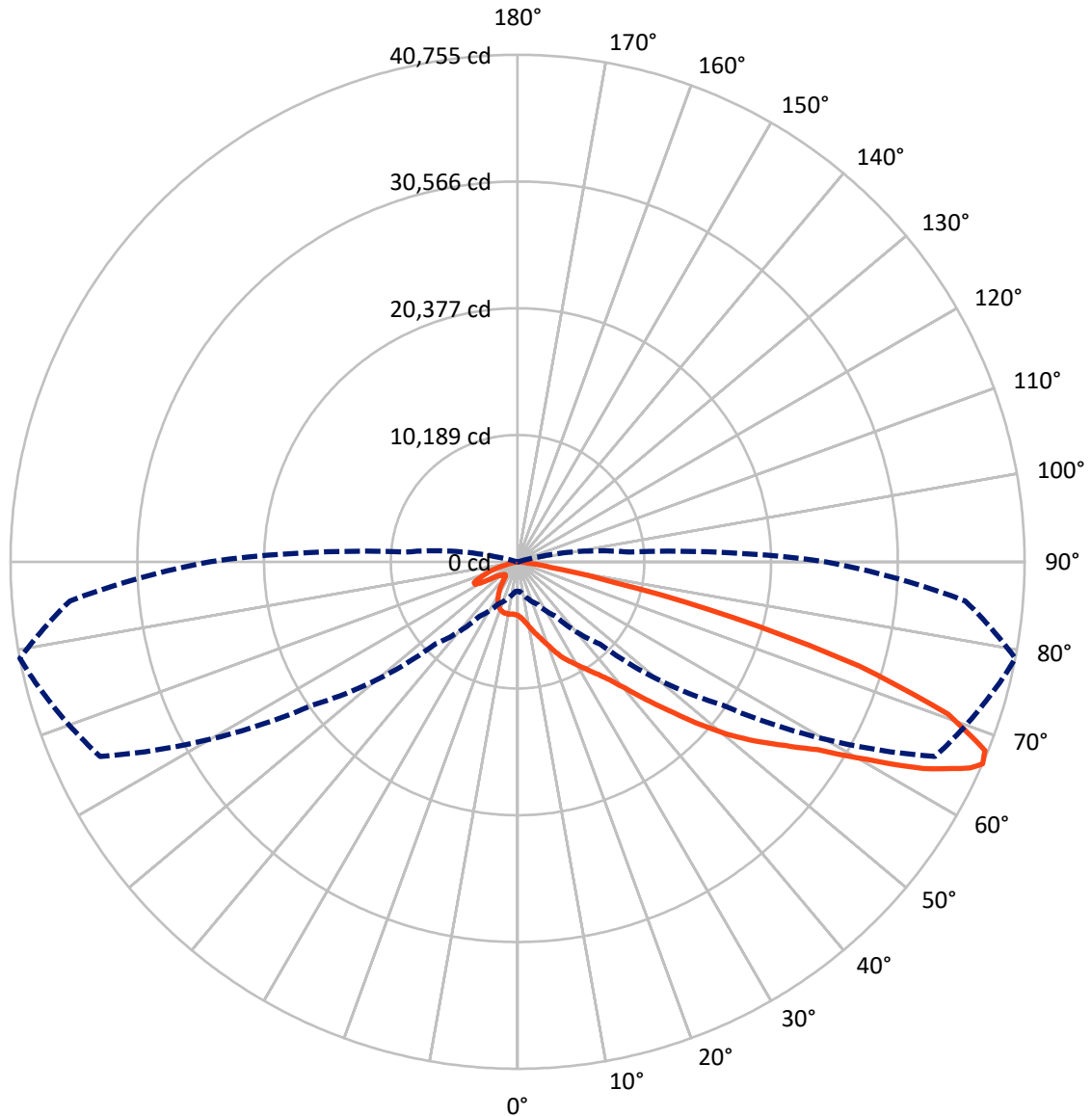
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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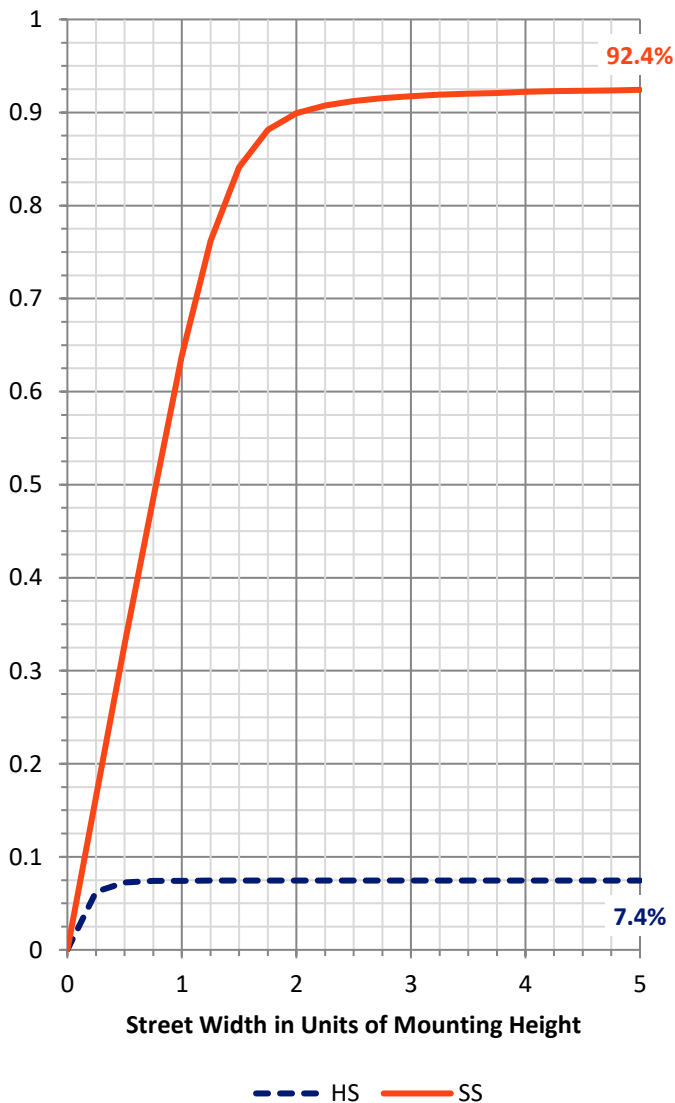
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2601.5	0.0	2601.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	32045.4	0.0	32045.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	34646.9	0.0	34646.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.6	1.2
10°-20°	1121.9	3.2
20°-30°	1863.8	5.4
30°-40°	3201.3	9.2
40°-50°	5799.5	16.7
50°-60°	9167.4	26.5
60°-70°	9328.5	26.9
70°-80°	3557.4	10.3
80°-90°	199.4	0.6
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°	34646.9	100.0
0°-180°	34646.9	100.0

Coefficient of Utilization

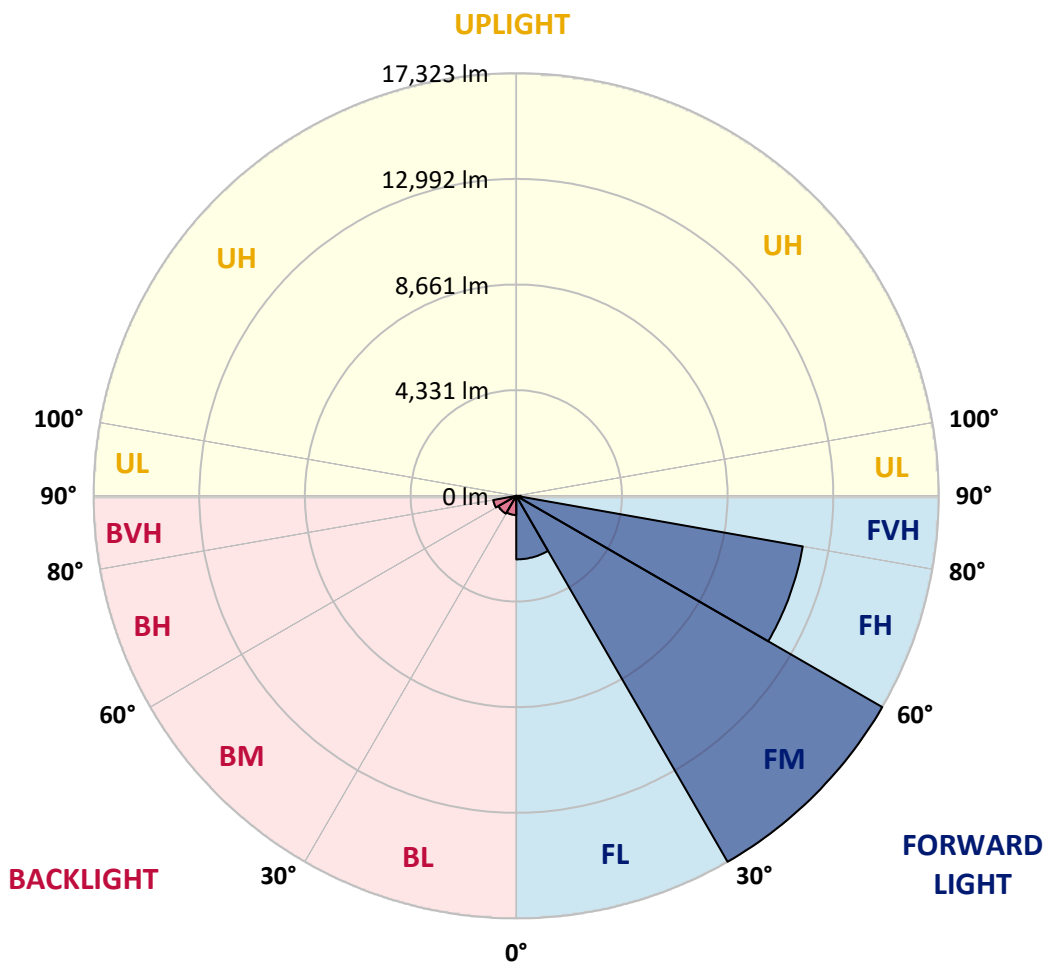


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2606.6	7.5			
FM (30°-60°)	17322.6	50.0			
FH (60°-80°)	11926.9	34.4			G4/12000
FVH (80°-90°)	189.2	0.5			G2/225
BL (0°-30°)	786.8	2.3	B2/1000		
BM (30°-60°)	845.5	2.4	B1/1000		
BH (60°-80°)	959.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5
2.5°	4882.0	4876.7	4855.3	4817.9	4769.8	4753.8	4684.4	4588.2	4534.8	4476.1
5°	5218.5	5191.8	5255.9	5229.2	5239.9	5111.7	5026.2	4956.8	4753.8	4673.7
7.5°	5293.3	5320.0	5314.7	5357.4	5400.1	5448.2	5389.4	5288.0	5085.0	4967.5
10°	5293.3	5282.6	5325.3	5384.1	5507.0	5613.8	5774.0	5640.5	5485.6	5346.7
12.5°	5197.2	5181.1	5223.9	5346.7	5565.7	5784.7	5961.0	6089.2	5870.2	5758.0
15°	4903.4	4887.4	5063.6	5282.6	5571.0	5928.9	6297.5	6505.8	6356.2	6180.0
17.5°	4540.2	4561.5	4748.5	5111.7	5571.0	5998.4	6468.4	6922.4	6901.1	6676.7
20°	4417.3	4433.3	4620.3	4882.0	5405.5	6046.4	6735.5	7376.4	7504.6	7237.6
22.5°	4652.3	4636.3	4652.3	4812.6	5293.3	6003.7	6911.7	7894.5	8124.2	7915.9
25°	5453.5	5442.9	5309.3	5063.6	5229.2	5907.6	7002.5	8236.4	8765.2	8572.9
27.5°	6628.6	6585.9	6377.6	5864.8	5528.3	5966.3	7152.1	8567.6	9326.0	9107.0
30°	7889.2	7787.7	7515.3	6874.3	6302.8	6185.3	7237.6	8813.3	9951.0	9673.2
32.5°	8759.8	8893.4	8807.9	8156.3	7280.3	6692.7	7376.4	9123.1	10527.8	10346.2
35°	10105.9	10260.8	9902.9	9326.0	8444.7	7499.3	7670.2	9374.1	11414.5	11110.0
37.5°	11804.4	11921.9	11665.6	10570.6	9641.2	8492.8	8273.8	9897.6	12178.3	12034.1
40°	12659.0	13225.2	12862.0	11873.9	10875.0	9881.5	9272.6	10511.8	13508.3	13390.8
42.5°	13839.5	14122.6	13935.6	13203.9	12162.3	11366.4	10506.5	11708.3	15121.4	15121.4
45°	15089.4	15100.1	15089.4	14491.1	13567.1	13155.8	12173.0	13209.2	16857.4	17049.7
47.5°	16114.9	16435.4	16408.7	16050.8	15335.1	15180.2	13839.5	14918.4	19036.6	19373.1
50°	16643.7	17001.6	17108.4	17295.4	17263.3	17589.1	15660.9	16900.1	20916.8	21744.7
52.5°	16499.5	16526.2	17183.2	17920.3	19095.4	20008.8	17856.2	19148.8	23117.5	23934.7
55°	15319.0	15217.6	16568.9	17412.9	19843.2	21488.3	20895.4	21953.0	24832.0	26076.6
57.5°	12728.5	12755.2	14005.1	15719.7	19287.7	22075.9	24143.0	25617.2	27235.6	28490.9
60°	8786.6	8754.5	10153.9	12135.6	16024.1	20980.9	26012.5	30365.7	30451.2	32229.8
62.5°	4940.8	4951.5	6014.4	7707.6	11211.5	17145.8	25921.7	35407.9	35044.7	36604.4
65°	2798.9	2868.3	3600.1	4566.9	6714.1	11510.7	22294.9	37416.3	38586.1	39974.8
66°	2366.2	2414.3	3039.2	3771.0	5357.4	9336.7	20067.5	37026.4	39697.1	40754.7
67.5°	1832.1	1896.2	2419.6	2991.2	3931.2	6463.1	16152.3	35087.5	39900.0	40519.6
70°	1255.2	1298.0	1698.6	2270.1	2686.7	3306.3	9657.2	29009.0	36203.8	36727.3
72.5°	881.3	902.7	1191.1	1719.9	2067.1	1890.8	4791.2	20639.1	27705.7	28725.9
75°	635.6	657.0	817.2	1233.9	1613.1	1239.2	2195.3	13182.5	16990.9	17792.1
77.5°	459.4	486.1	555.5	795.9	1169.8	870.6	1079.0	6885.0	8012.1	7873.2
80°	277.8	304.5	411.3	512.8	854.6	614.3	592.9	2873.7	2841.6	2697.4
82.5°	128.2	149.6	219.0	347.2	598.2	427.3	283.1	1025.5	897.4	822.6
85°	37.4	48.1	128.2	261.7	304.5	208.3	170.9	352.5	368.6	315.1
87.5°	0.0	5.3	58.8	64.1	90.8	69.4	64.1	90.8	170.9	138.9
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°
4310.5	0°	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5
4449.4	2.5°	4353.2	4315.8	4225.0	4086.1	3963.3	3899.2	3808.4	3728.3	3685.5	3680.2
4545.5	5°	4460.0	4358.6	4139.6	3888.5	3701.6	3498.6	3359.7	3258.2	3162.1	3071.3
4828.6	7.5°	4604.3	4444.0	4086.1	3760.3	3354.4	3092.7	2847.0	2702.7	2617.3	2537.2
5095.7	10°	4828.6	4625.6	4048.8	3461.2	2996.5	2611.9	2360.9	2152.6	2035.1	1896.2
5432.2	12.5°	5133.1	4769.8	3909.9	3188.8	2590.6	2184.6	1826.7	1490.2	1303.3	1159.1
5816.8	15°	5437.5	4962.1	3781.7	2857.6	2222.0	1687.9	1164.4	934.7	881.3	849.3
6297.5	17.5°	5736.6	5117.0	3584.1	2521.1	1800.0	1073.6	849.3	801.2	774.5	742.5
6740.8	20°	6099.8	5218.5	3338.4	2211.3	1239.2	795.9	726.4	694.4	651.6	608.9
7323.0	22.5°	6452.4	5304.0	3055.3	1816.1	833.3	689.0	608.9	566.2	528.8	486.1
7793.1	25°	6804.9	5330.7	2686.7	1303.3	673.0	550.2	475.4	416.6	379.2	341.8
8215.0	27.5°	7045.3	5165.1	2339.5	833.3	539.5	416.6	331.2	283.1	251.0	213.7
8583.6	30°	7184.1	4860.6	1965.6	587.6	405.9	283.1	197.6	149.6	117.5	90.8
9213.9	32.5°	7323.0	4614.9	1543.7	448.7	267.1	149.6	74.8	26.7	0.0	0.0
9801.4	35°	7600.8	4337.2	1036.2	251.0	90.8	5.3	0.0	0.0	0.0	0.0
10554.5	37.5°	7777.0	3952.6	475.4	37.4	0.0	0.0	0.0	0.0	0.0	0.0
11596.1	40°	8220.4	3760.3	117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13006.2	42.5°	8941.5	3626.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14694.1	45°	9732.0	3573.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16339.3	47.5°	10784.2	3717.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18454.4	50°	11895.2	4107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20088.9	52.5°	13113.1	4476.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21776.8	55°	14176.0	4919.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24148.3	57.5°	16130.9	5966.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28405.4	60°	19640.2	8022.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33244.7	62.5°	23592.8	9550.4	58.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36182.4	65°	25040.3	9513.0	101.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0
36123.7	66°	24784.0	8989.5	101.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0
35103.5	67.5°	23454.0	7985.3	90.8	10.7	0.0	0.0	0.0	0.0	0.0	0.0
30509.9	70°	20142.3	6596.6	90.8	16.0	0.0	0.0	0.0	0.0	0.0	0.0
23731.7	72.5°	15356.4	5138.4	85.5	21.4	5.3	0.0	0.0	0.0	0.0	0.0
14293.5	75°	9267.3	2734.8	69.4	26.7	10.7	0.0	0.0	0.0	0.0	0.0
6147.9	77.5°	3690.9	961.4	53.4	21.4	10.7	0.0	0.0	0.0	0.0	0.0
1933.6	80°	998.8	288.4	32.0	21.4	16.0	5.3	0.0	0.0	0.0	0.0
544.8	82.5°	261.7	106.8	26.7	21.4	10.7	5.3	0.0	0.0	0.0	0.0
181.6	85°	101.5	42.7	21.4	16.0	16.0	10.7	5.3	0.0	0.0	0.0
58.8	87.5°	32.0	16.0	16.0	10.7	10.7	5.3	5.3	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

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