

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: P575294

Luminaire Tested: **EPH-VN-08-735-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575294
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

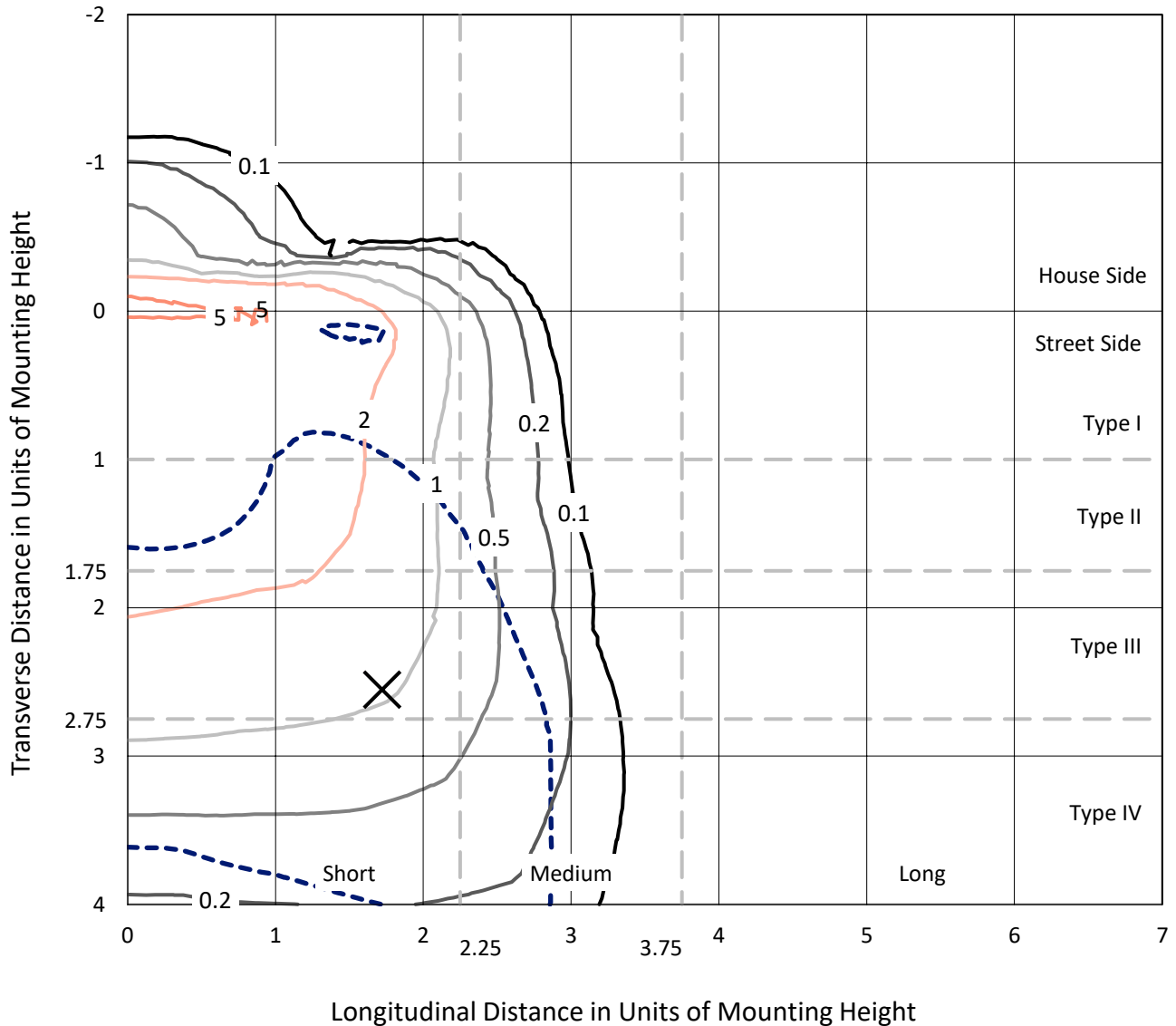
Lumens per Lamp: N/A
Luminaire Lumens: 34355.1 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

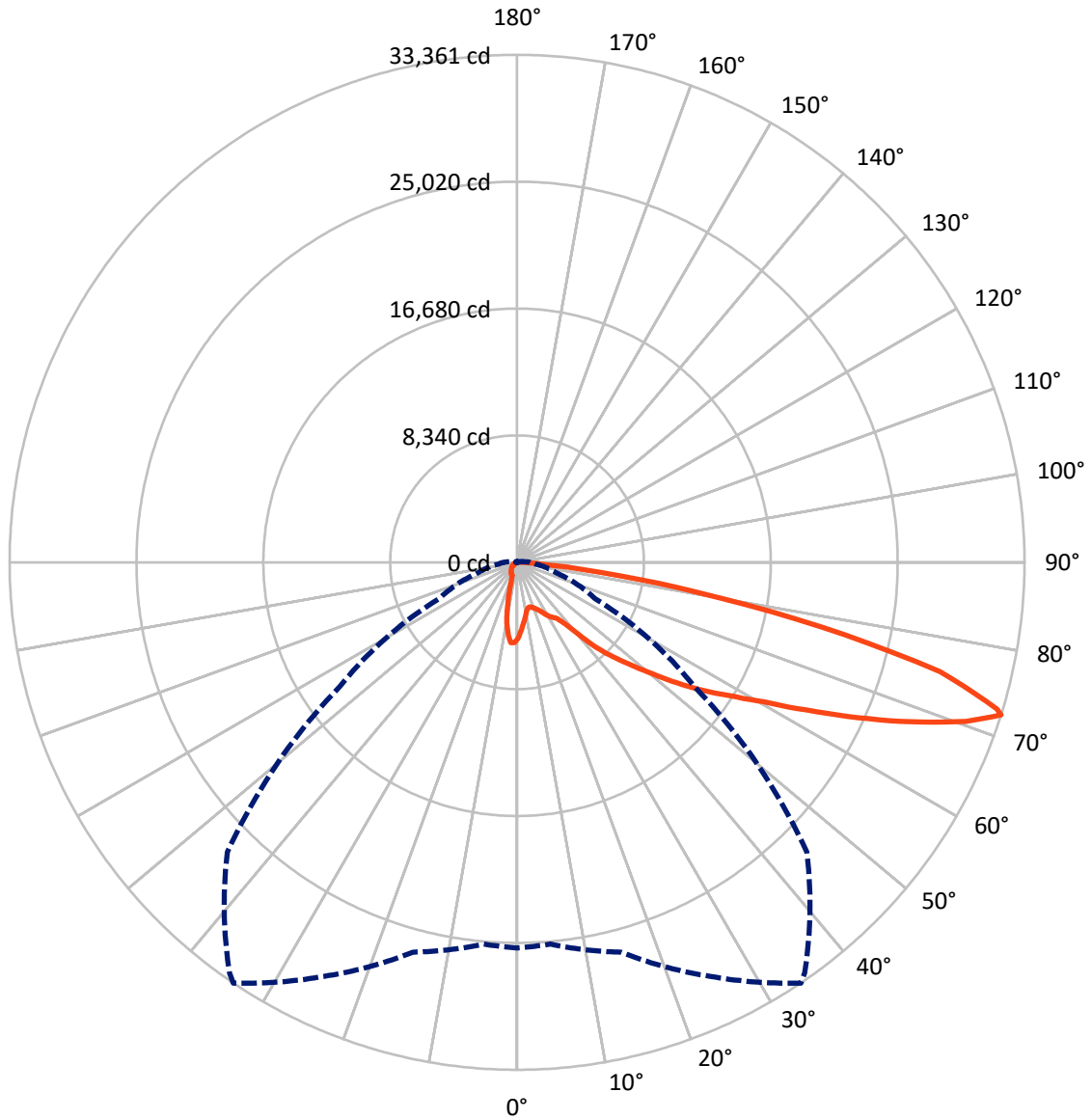
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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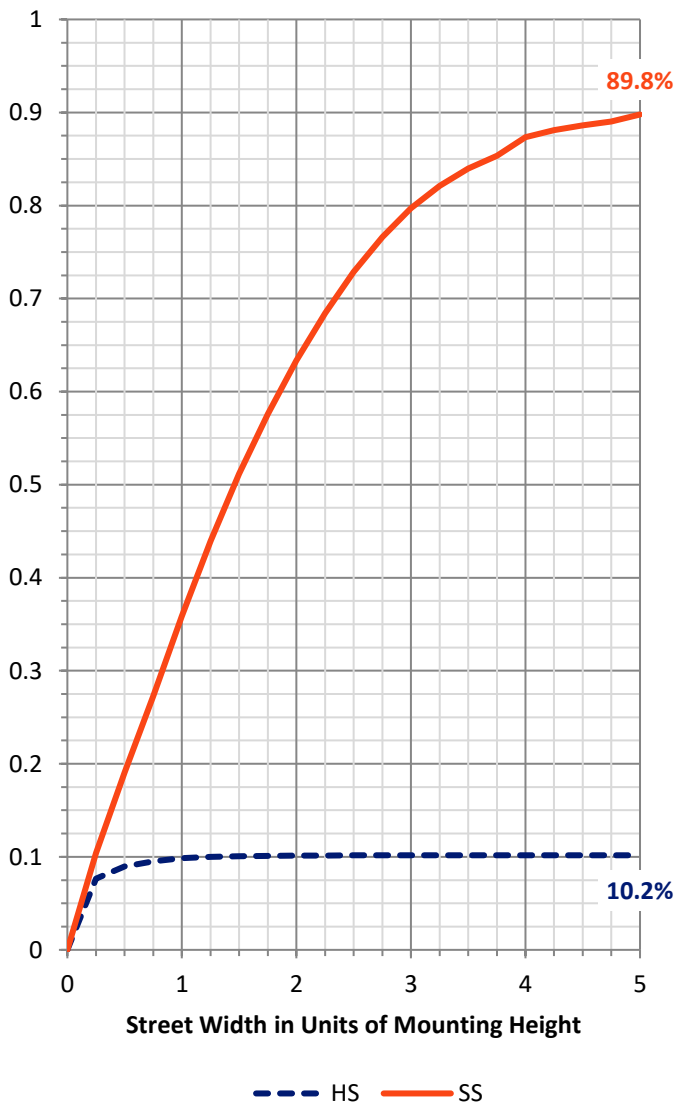
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3517.2	0.0	3517.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	30837.9	0.0	30837.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	34355.1	0.0	34355.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.3	1.3
10°-20°	987.8	2.9
20°-30°	1491.0	4.3
30°-40°	2419.6	7.0
40°-50°	4549.9	13.2
50°-60°	7439.2	21.7
60°-70°	9889.4	28.8
70°-80°	6622.8	19.3
80°-90°	519.0	1.5
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°	34355.1	100.0
0°-180°	34355.1	100.0

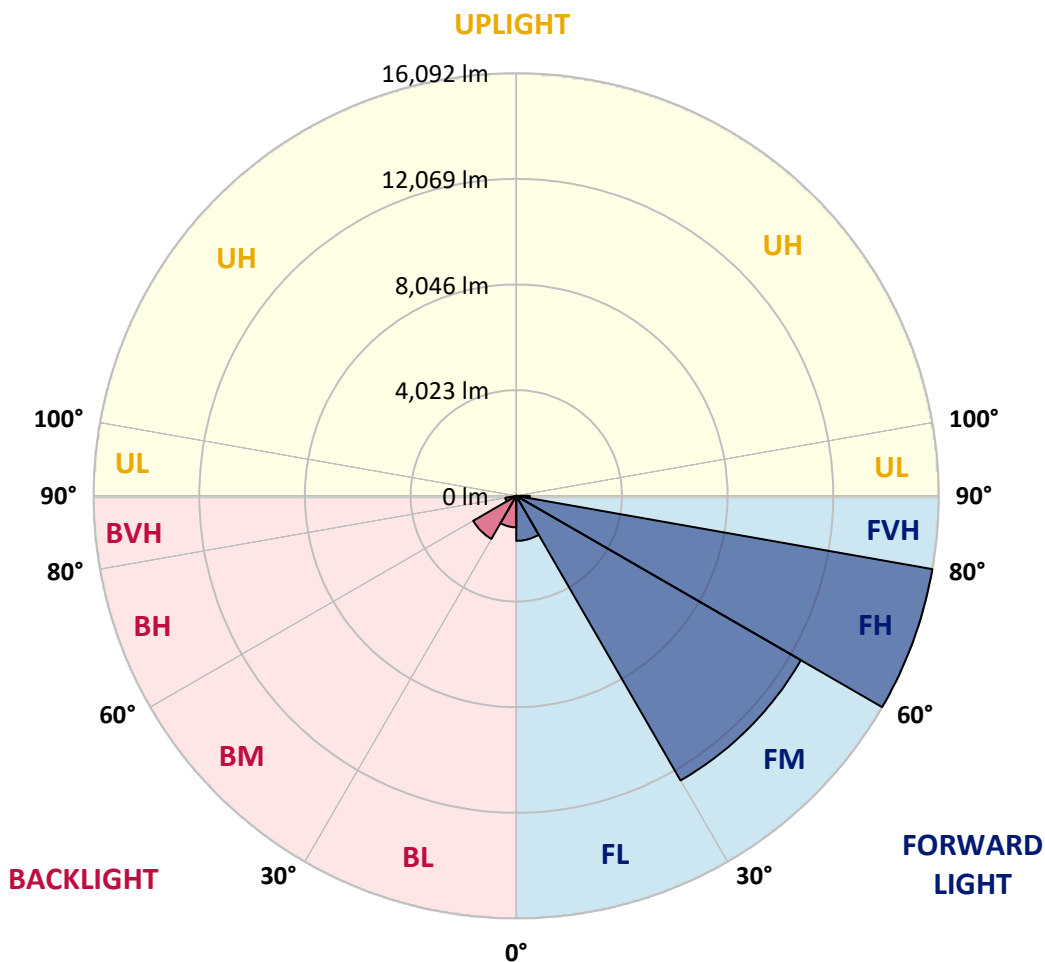


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1715.1	5.0			
FM (30°-60°)	12515.5	36.4			
FH (60°-80°)	16091.6	46.8			G5
FVH (80°-90°)	515.7	1.5			G4/750
BL (0°-30°)	1200.0	3.5	B3/2500		
BM (30°-60°)	1893.3	5.5	B2/2500		
BH (60°-80°)	420.6	1.2	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2
2.5°	4445.1	4435.1	4464.9	4514.6	4564.3	4544.4	4638.8	4738.1	4807.6	4902.0
5°	3883.9	3908.7	3938.5	4037.8	4102.4	4117.3	4291.1	4420.2	4633.8	4852.3
7.5°	3372.3	3402.1	3461.7	3571.0	3705.1	3739.8	3913.7	4171.9	4450.0	4738.1
10°	2999.8	3029.6	3094.2	3163.7	3342.5	3342.5	3580.9	3938.5	4301.1	4638.8
12.5°	2920.3	2935.2	2930.3	2984.9	3099.1	3124.0	3357.4	3749.8	4171.9	4604.0
15°	3014.7	3024.6	2975.0	2945.2	3044.5	3069.3	3287.9	3635.5	4087.5	4623.9
17.5°	3203.4	3168.7	3069.3	3024.6	3109.1	3124.0	3327.6	3630.6	4077.6	4678.5
20°	3312.7	3352.4	3178.6	3094.2	3213.4	3233.2	3451.8	3710.0	4127.2	4772.9
22.5°	3506.4	3526.3	3292.8	3238.2	3352.4	3352.4	3600.8	3869.0	4246.4	4926.8
25°	3779.6	3754.7	3481.6	3426.9	3536.2	3580.9	3829.2	4122.3	4430.2	5070.9
27.5°	3993.1	4008.0	3784.5	3640.5	3824.3	3854.1	4122.3	4395.4	4569.2	5190.1
30°	4311.0	4281.2	4042.8	3878.9	4107.4	4112.3	4370.6	4653.7	4837.4	5403.6
32.5°	4688.4	4628.8	4355.7	4122.3	4306.0	4350.7	4613.9	5026.2	5254.6	5805.9
35°	5488.1	5344.0	4897.0	4534.5	4549.4	4569.2	4976.5	5567.5	5830.8	6317.5
37.5°	6655.2	6595.6	6089.0	5398.7	5135.4	5075.8	5532.8	6282.7	6610.5	6992.9
40°	7812.4	7728.0	7256.2	6734.7	6257.9	6138.7	6367.1	7231.3	7529.3	7931.6
42.5°	9098.8	8949.8	8393.5	7971.3	7673.4	7544.2	7454.8	8423.3	8761.0	9034.2
45°	10400.0	10156.6	9352.1	9029.2	8870.3	8800.8	8790.8	9923.2	10126.8	10181.5
47.5°	11542.3	11279.1	10549.0	10186.4	10067.2	10047.4	10603.6	11651.6	11492.6	11348.6
50°	12421.4	12252.5	11726.1	11596.9	11507.5	11472.8	12774.0	13429.6	12694.6	12441.3
52.5°	13782.2	13404.8	12808.8	12853.5	13166.4	13171.3	14974.2	15118.2	13692.8	13191.2
55°	14869.9	14621.6	14134.9	14070.3	14894.7	14984.1	16945.9	16399.6	14249.1	13906.4
57.5°	16151.3	16037.1	15684.4	15694.4	16558.5	16747.3	18699.1	17482.3	14711.0	14368.3
60°	18003.8	17676.0	17492.3	17576.7	18594.8	18778.6	20397.7	18262.1	14934.5	14671.3
62.5°	20050.0	19667.6	19469.0	19901.1	21386.1	21415.9	21689.0	18952.4	14795.4	14750.7
65°	22513.5	22136.0	21977.1	22846.2	24609.4	24500.1	23501.8	19245.5	14353.4	13951.1
67.5°	24967.0	24738.5	24410.7	25796.4	27991.6	27991.6	25384.1	19136.2	13196.2	11199.6
70°	26129.1	26288.1	26809.6	28984.9	31314.2	31075.8	27241.6	17879.7	9823.9	6014.5
72°	25354.3	25190.5	26536.4	30027.9	33360.5	32968.1	26928.8	14214.3	5676.8	2637.2
72.5°	24023.3	24177.3	26029.8	29883.9	32978.0	33300.9	26163.9	13111.7	4668.6	2100.9
75°	14730.9	14994.1	19429.2	25374.2	28736.6	28374.0	20238.8	6247.9	1792.9	894.0
77.5°	5378.8	5597.3	9426.6	15967.5	20437.4	20209.0	11711.2	2220.1	973.4	665.5
80°	1400.6	1514.8	3203.4	7365.4	12019.1	12034.0	4902.0	889.0	660.6	546.3
82.5°	278.1	307.9	983.4	2865.7	5617.2	5542.7	1549.6	476.8	496.7	447.0
85°	34.8	44.7	208.6	973.4	1817.8	1629.0	382.4	238.4	367.5	347.7
87.5°	5.0	5.0	49.7	223.5	382.4	372.5	79.5	74.5	163.9	213.6
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°
5026.2	0°	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2	5026.2
5016.2	2.5°	5080.8	5100.7	5170.2	5229.8	5299.3	5319.2	5289.4	5339.1	5269.5	5309.3
5056.0	5°	5090.7	5205.0	5334.1	5418.5	5398.7	5349.0	5309.3	5175.2	5080.8	5046.0
5070.9	7.5°	5160.3	5289.4	5428.5	5428.5	5319.2	5060.9	4812.6	4574.2	4375.5	4276.2
5075.8	10°	5249.7	5383.8	5527.8	5339.1	4931.8	4460.0	4107.4	3660.4	3357.4	3198.5
5155.3	12.5°	5368.9	5557.6	5607.3	5170.2	4494.7	3794.5	3153.8	2533.0	2244.9	2016.4
5284.4	15°	5522.8	5706.6	5557.6	4802.7	3938.5	2905.4	2135.6	1544.6	1316.1	1196.9
5433.4	17.5°	5726.5	5865.5	5542.7	4464.9	3188.5	1986.6	1311.2	1043.0	993.3	973.4
5642.0	20°	5964.9	6069.2	5398.7	3938.5	2369.1	1276.4	963.5	933.7	938.7	928.7
5890.4	22.5°	6233.0	6267.8	5234.8	3327.6	1604.2	943.6	898.9	903.9	908.9	898.9
6118.8	25°	6516.1	6421.8	4996.4	2612.4	1067.8	859.2	869.1	879.1	884.0	889.0
6396.9	27.5°	6834.0	6645.3	4663.6	1912.1	834.4	809.6	839.4	869.1	874.1	874.1
6814.1	30°	7300.9	6988.0	4340.8	1296.3	735.1	754.9	804.6	839.4	864.2	864.2
7459.8	32.5°	7891.9	7345.6	3888.8	884.0	680.4	690.4	730.1	799.6	854.3	859.2
8324.0	35°	8711.4	7777.7	3417.0	705.3	640.7	645.7	670.5	725.1	819.5	849.3
9446.4	37.5°	9575.5	8269.3	2830.9	635.7	610.9	605.9	620.8	665.5	750.0	824.5
10598.7	40°	10494.4	8785.9	2215.1	601.0	586.1	576.1	581.1	601.0	665.5	759.9
11726.1	42.5°	11358.5	9252.7	1663.8	566.2	561.2	551.3	551.3	556.3	591.0	655.6
12977.7	45°	12292.3	9635.1	1266.5	541.4	526.5	531.4	511.6	501.6	526.5	531.4
14373.3	47.5°	13166.4	10017.6	1013.2	511.6	496.7	496.7	471.8	452.0	452.0	407.3
15600.0	50°	13985.9	10226.2	809.6	471.8	466.9	461.9	427.1	392.4	362.6	307.9
16757.2	52.5°	14666.3	10216.2	625.8	422.2	437.1	422.2	367.5	317.9	273.2	223.5
17184.3	55°	14869.9	9739.4	471.8	347.7	372.5	352.6	293.0	248.3	198.7	158.9
17248.9	57.5°	14696.1	9014.3	357.6	268.2	288.1	268.2	223.5	183.8	139.1	109.3
17090.0	60°	14115.0	8165.0	278.1	208.6	218.5	203.6	168.9	139.1	99.3	69.5
16066.9	62.5°	13012.4	7102.2	213.6	163.9	158.9	158.9	129.1	104.3	69.5	39.7
13379.9	65°	10678.1	5537.7	163.9	114.2	114.2	114.2	99.3	74.5	44.7	19.9
8751.1	67.5°	6704.9	3223.3	134.1	89.4	84.4	84.4	69.5	49.7	24.8	5.0
3441.8	70°	2523.0	1182.0	104.3	69.5	64.6	64.6	49.7	29.8	14.9	0.0
1196.9	72°	869.1	452.0	84.4	49.7	49.7	44.7	34.8	24.8	9.9	0.0
903.9	72.5°	715.2	362.6	79.5	49.7	44.7	44.7	34.8	24.8	9.9	0.0
322.8	75°	258.3	149.0	54.6	34.8	29.8	29.8	24.8	14.9	5.0	0.0
163.9	77.5°	129.1	94.4	44.7	29.8	24.8	14.9	14.9	9.9	5.0	0.0
99.3	80°	79.5	59.6	24.8	19.9	14.9	9.9	5.0	5.0	0.0	0.0
69.5	82.5°	54.6	34.8	14.9	14.9	9.9	5.0	0.0	0.0	0.0	0.0
44.7	85°	34.8	14.9	9.9	9.9	5.0	0.0	0.0	0.0	0.0	0.0
24.8	87.5°	14.9	9.9	5.0	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

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180°
5026.2
5319.2
5120.5
4360.6
3213.4
2021.4
1196.9
973.4
928.7
903.9
889.0
869.1
859.2
844.3
844.3
829.4
779.8
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526.5
402.3
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213.6
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