

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: P575351

Luminaire Tested: **EPH-VN-07-760-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575351
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-760-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

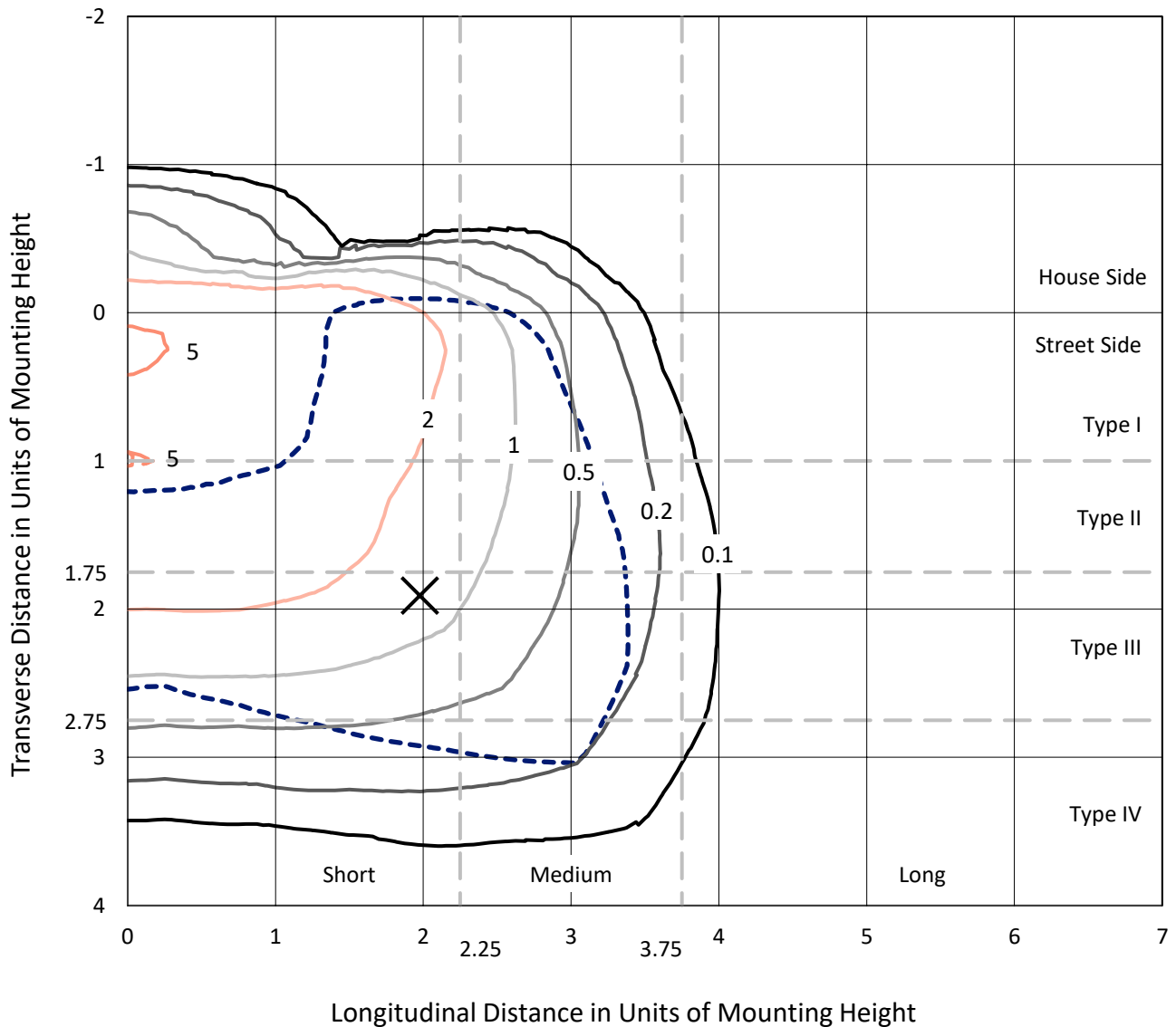
Lumens per Lamp: N/A
Luminaire Lumens: 36815.6 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

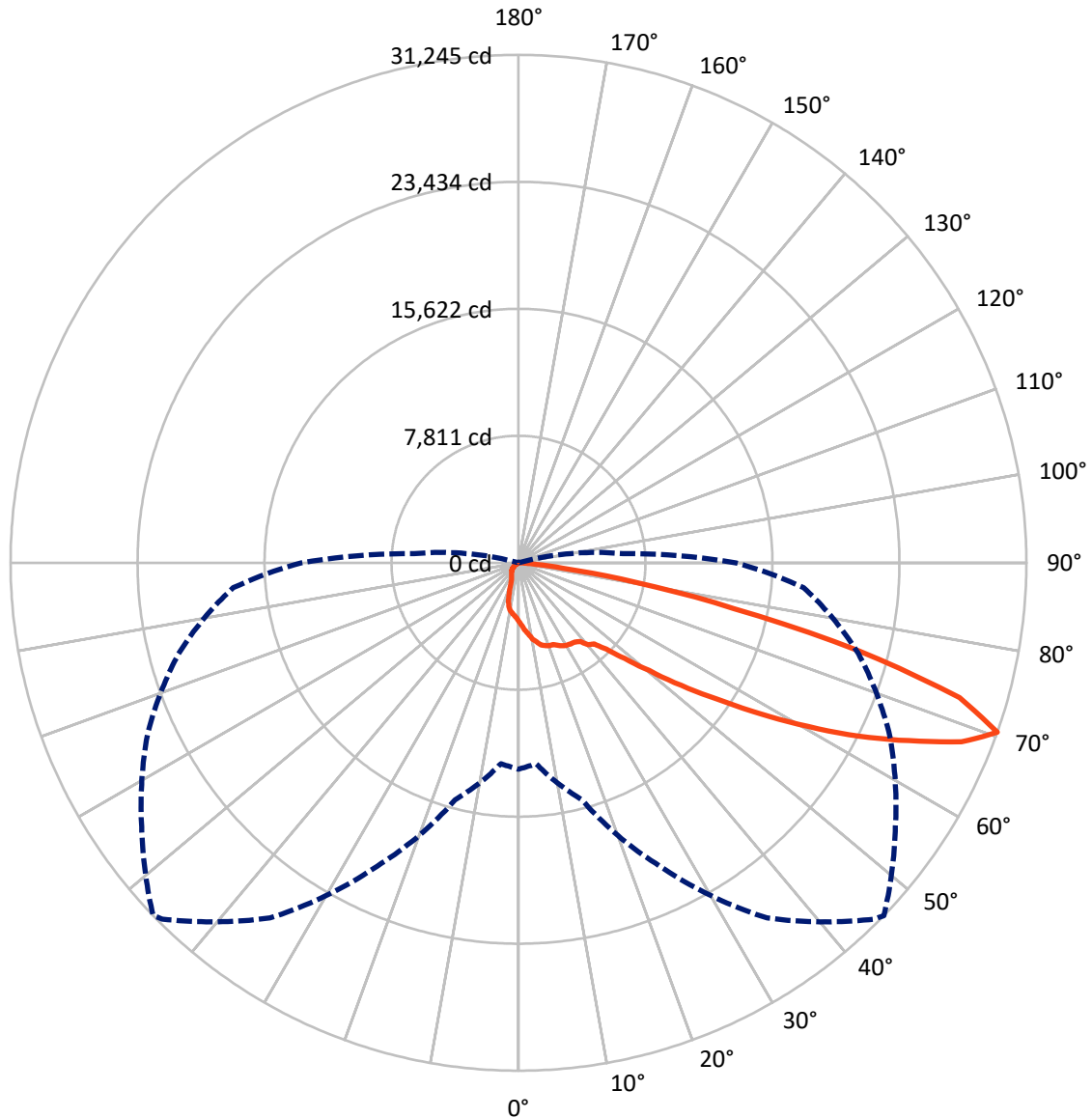
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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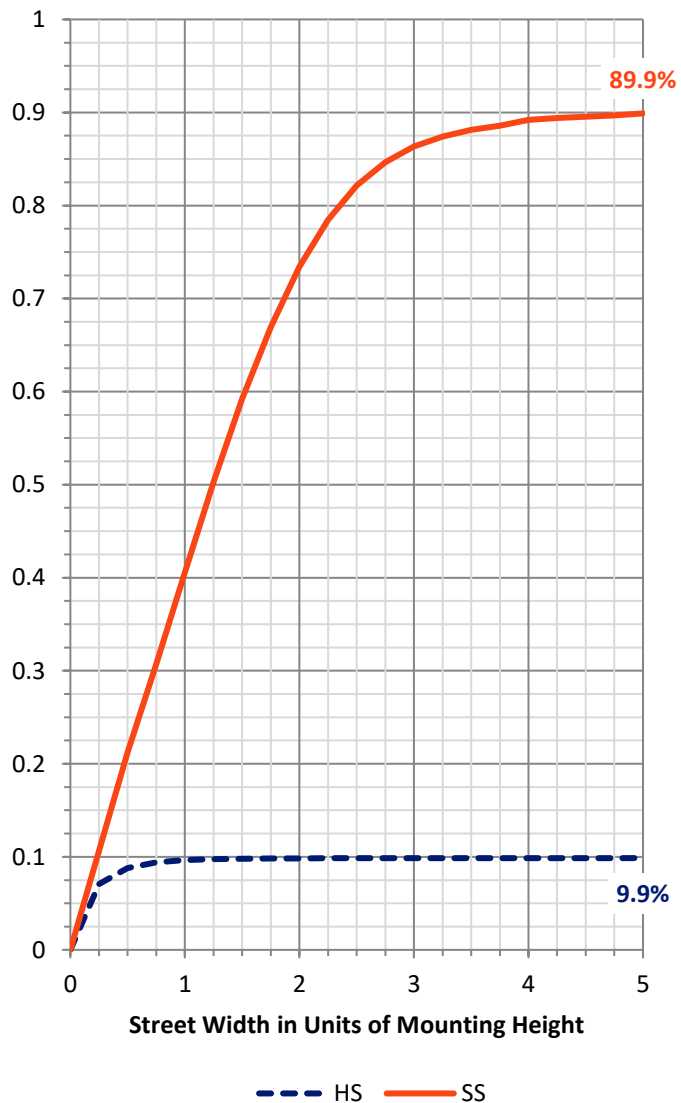
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3663.3	0.0	3663.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	33152.3	0.0	33152.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	36815.6	0.0	36815.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	1.0
10°-20°	1088.3	3.0
20°-30°	1743.2	4.7
30°-40°	2488.2	6.8
40°-50°	4296.4	11.7
50°-60°	8225.9	22.3
60°-70°	12181.3	33.1
70°-80°	6033.3	16.4
80°-90°	398.7	1.1
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°	36815.6	100.0
0°-180°	36815.6	100.0

Coefficient of Utilization

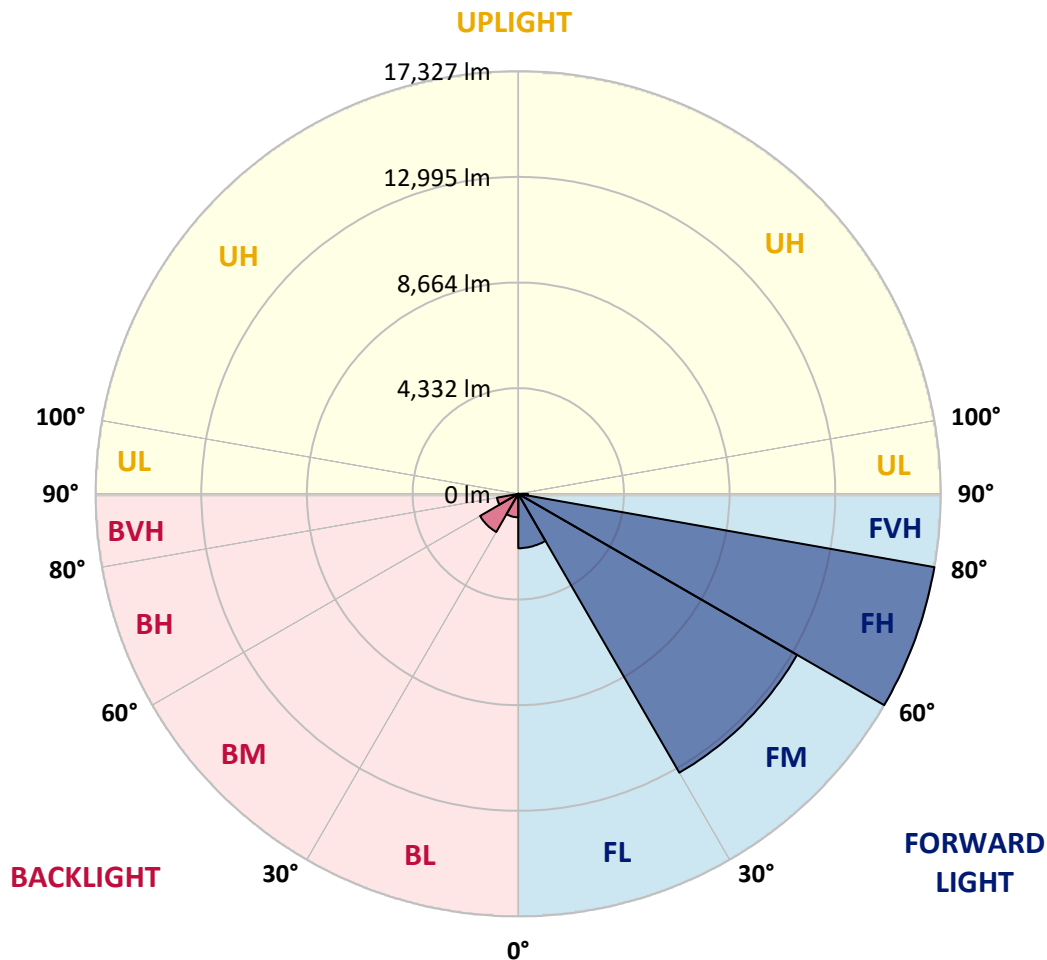


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2229.5	6.1			
FM (30°-60°)	13202.0	35.9			
FH (60°-80°)	17327.3	47.1			G5
FVH (80°-90°)	393.6	1.1			G3/500
BL (0°-30°)	962.4	2.6	B2/1000		
BM (30°-60°)	1808.6	4.9	B2/2500		
BH (60°-80°)	887.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	5.1	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°	35°	45°	46°	55°	65°	75°
0°	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1
2.5°	4032.8	4006.3	3963.9	3948.0	3905.6	3884.4	3852.6	3836.7	3778.4	3720.1
5°	4525.6	4462.0	4483.2	4419.6	4281.9	4170.6	4165.3	4043.4	3910.9	3804.9
7.5°	5023.8	4970.8	4891.3	4801.2	4647.5	4483.2	4435.5	4319.0	4133.5	3948.0
10°	5400.0	5362.9	5294.0	5166.8	4954.9	4769.4	4774.7	4578.6	4382.5	4170.6
12.5°	5633.2	5649.1	5548.4	5421.2	5235.7	5002.6	4997.3	4864.8	4642.2	4419.6
15°	5866.4	5924.7	5771.0	5622.6	5384.1	5214.5	5246.3	5087.4	4870.1	4615.7
17.5°	5903.5	5919.4	5887.6	5670.3	5495.4	5352.3	5357.6	5251.6	5087.4	4811.8
20°	5839.9	5829.3	5792.2	5633.2	5516.6	5431.8	5437.1	5410.6	5320.5	5098.0
22.5°	5654.4	5654.4	5606.7	5500.7	5447.7	5527.2	5463.6	5564.3	5468.9	5336.4
25°	5506.0	5564.3	5537.8	5468.9	5490.1	5596.1	5627.9	5723.3	5707.4	5543.1
27.5°	5665.0	5596.1	5612.0	5532.5	5612.0	5771.0	5786.9	5855.8	5850.5	5718.0
30°	5771.0	5834.6	5712.7	5537.8	5622.6	5892.9	5882.3	5972.3	6014.7	5855.8
32.5°	6110.1	6057.1	5956.5	5723.3	5733.9	5887.6	5935.3	6051.8	6078.3	5982.9
35°	6804.3	6724.9	6285.0	5935.3	5882.3	5956.5	5988.2	6216.1	6263.8	6157.8
37.5°	7874.8	7694.6	7164.7	6391.0	6152.5	6136.6	6136.6	6438.7	6618.9	6375.1
40°	9406.3	9151.9	8579.6	7233.6	6507.6	6571.2	6634.8	6799.0	6777.8	6618.9
42.5°	11356.5	11160.4	10540.4	8648.5	7185.9	6867.9	6814.9	7037.5	7371.4	7307.8
45°	12983.4	12994.0	12596.5	10588.1	8357.0	7551.5	7588.6	7758.2	8320.0	8272.3
47.5°	14170.4	14022.0	13963.7	12458.7	10063.4	8849.9	8796.9	8913.5	9644.8	9946.8
50°	15251.5	15150.8	15013.0	14276.4	12114.3	10476.8	10423.8	10434.4	11552.5	11976.5
52.5°	16592.2	16719.4	16263.7	15813.2	14769.2	12591.2	12532.9	12326.2	13714.7	14297.6
55°	18245.6	18007.1	17493.1	17726.3	17307.6	14875.2	14769.2	14525.5	16178.9	16422.6
57.5°	18611.3	18431.1	18961.0	19787.7	20190.5	17556.7	17514.3	17074.5	18250.9	18028.3
60°	19522.7	19570.4	20307.0	21949.8	22649.3	20651.5	20444.8	19671.1	20259.4	20301.7
62.5°	20460.7	20349.4	21997.5	23576.7	24652.5	23582.0	23513.1	21976.3	22644.1	22103.5
65°	19771.8	19941.4	22299.6	24944.0	27249.2	26449.0	26390.7	24196.8	24562.4	23889.4
67.5°	17323.5	16979.1	20280.5	24318.6	28584.6	29453.7	29390.1	26618.5	25643.5	23878.8
70°	12697.2	12400.4	15092.5	20593.2	26671.5	30990.5	31244.9	28303.7	25203.6	21653.1
72.5°	6221.4	6226.7	8457.7	13963.7	21101.9	28245.4	28372.6	25950.8	21653.1	15961.6
75°	1838.9	1860.1	3131.9	6846.7	13640.5	21451.7	21594.8	19697.6	15007.7	8245.8
77.5°	673.0	673.0	1038.7	2570.2	6804.3	13539.8	13529.2	12093.1	7599.2	2792.7
80°	349.8	365.7	540.5	1049.3	2946.4	7053.4	7318.4	5919.4	2888.1	1176.5
82.5°	143.1	159.0	296.8	540.5	1414.9	2474.8	2708.0	2321.1	1255.9	821.4
85°	42.4	47.7	143.1	302.1	556.4	620.0	688.9	779.0	789.6	635.9
87.5°	5.3	5.3	58.3	100.7	121.9	132.5	153.7	153.7	402.7	445.1
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°
3614.1	0°	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1
3683.0	2.5°	3640.6	3614.1	3571.8	3476.4	3455.2	3386.3	3381.0	3317.4	3338.6	3296.2
3661.8	5°	3614.1	3555.9	3439.3	3365.1	3290.9	3243.2	3211.4	3184.9	3179.6	3158.4
3757.2	7.5°	3661.8	3582.3	3402.2	3285.6	3158.4	3116.0	3047.1	3041.8	3004.7	2967.6
3910.9	10°	3820.8	3677.7	3481.7	3285.6	3121.3	2983.5	2824.5	2708.0	2665.6	2570.2
4112.3	12.5°	3948.0	3820.8	3534.7	3333.3	3084.2	2771.6	2421.8	2151.5	2024.3	1902.5
4276.6	15°	4128.2	3942.7	3635.3	3343.9	2941.1	2400.6	1828.3	1526.2	1409.6	1383.1
4520.3	17.5°	4324.3	4128.2	3762.5	3317.4	2649.7	1854.8	1346.0	1171.2	1192.3	1224.1
4700.5	20°	4541.5	4303.1	3857.9	3227.3	2188.6	1346.0	1102.3	1097.0	1128.8	1176.5
5007.9	22.5°	4769.4	4562.7	3974.5	2957.0	1632.2	1081.1	1059.9	1059.9	1081.1	1139.4
5219.8	25°	5023.8	4748.2	4032.8	2538.4	1171.2	996.3	1006.9	1028.1	1038.7	1086.4
5410.6	27.5°	5219.8	4954.9	4048.7	2034.9	953.9	922.1	948.6	975.1	991.0	1028.1
5590.8	30°	5400.0	5214.5	3963.9	1515.6	874.4	858.5	869.1	906.2	938.0	969.8
5765.7	32.5°	5627.9	5362.9	3767.8	1075.8	826.7	800.2	794.9	810.8	847.9	885.0
5951.2	35°	5861.1	5612.0	3455.2	863.8	784.3	747.2	726.0	710.1	726.0	752.5
6226.7	37.5°	6200.2	5988.2	3063.0	794.9	752.5	699.5	657.1	620.0	593.5	588.2
6587.1	40°	6682.5	6412.2	2559.6	747.2	715.4	651.8	588.2	524.6	466.3	429.2
7286.6	42.5°	7413.8	7037.5	2013.7	720.7	688.9	598.8	508.7	418.6	344.5	307.4
8267.0	45°	8457.7	7864.2	1478.5	694.2	657.1	535.2	418.6	312.7	238.5	217.3
10084.6	47.5°	10031.6	8860.5	1059.9	651.8	614.7	466.3	328.6	222.6	174.9	164.3
12315.6	50°	12087.8	10042.2	826.7	604.1	561.7	392.2	243.8	164.3	137.8	132.5
14700.3	52.5°	14244.6	11234.6	726.0	561.7	482.2	312.7	180.2	132.5	116.6	111.3
16846.6	55°	16088.8	12003.0	630.6	498.1	386.9	233.2	143.1	116.6	100.7	84.8
19226.0	57.5°	17954.1	12389.8	498.1	413.3	286.2	174.9	121.9	100.7	84.8	68.9
21578.9	60°	19469.7	12665.4	355.1	307.4	201.4	137.8	106.0	90.1	68.9	53.0
23794.0	62.5°	20466.0	11875.8	259.7	233.2	148.4	116.6	90.1	74.2	53.0	37.1
24694.9	65°	19973.2	10784.1	201.4	164.3	111.3	90.1	74.2	53.0	37.1	21.2
22824.2	67.5°	17922.3	8786.3	164.3	121.9	84.8	68.9	58.3	42.4	21.2	5.3
17609.7	70°	13370.2	6438.7	132.5	90.1	68.9	53.0	42.4	26.5	10.6	5.3
9973.3	72.5°	7313.1	3524.1	106.0	74.2	53.0	42.4	31.8	21.2	10.6	0.0
3402.2	75°	2416.5	938.0	79.5	53.0	31.8	26.5	21.2	15.9	5.3	0.0
794.9	77.5°	582.9	243.8	63.6	47.7	26.5	15.9	10.6	5.3	5.3	0.0
233.2	80°	180.2	100.7	47.7	31.8	21.2	15.9	5.3	0.0	0.0	0.0
106.0	82.5°	74.2	47.7	21.2	21.2	15.9	5.3	0.0	0.0	0.0	0.0
47.7	85°	37.1	26.5	15.9	10.6	10.6	5.3	0.0	0.0	0.0	0.0
26.5	87.5°	26.5	10.6	5.3	5.3	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°
3614.1
3280.3
3147.8
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1950.2
1377.8
1218.8
1187.1
1128.8
1091.7
1044.0
969.8
885.0
773.7
604.1
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