

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: P575225

Luminaire Tested: **EPH-VN-07-750-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575225
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-750-U-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

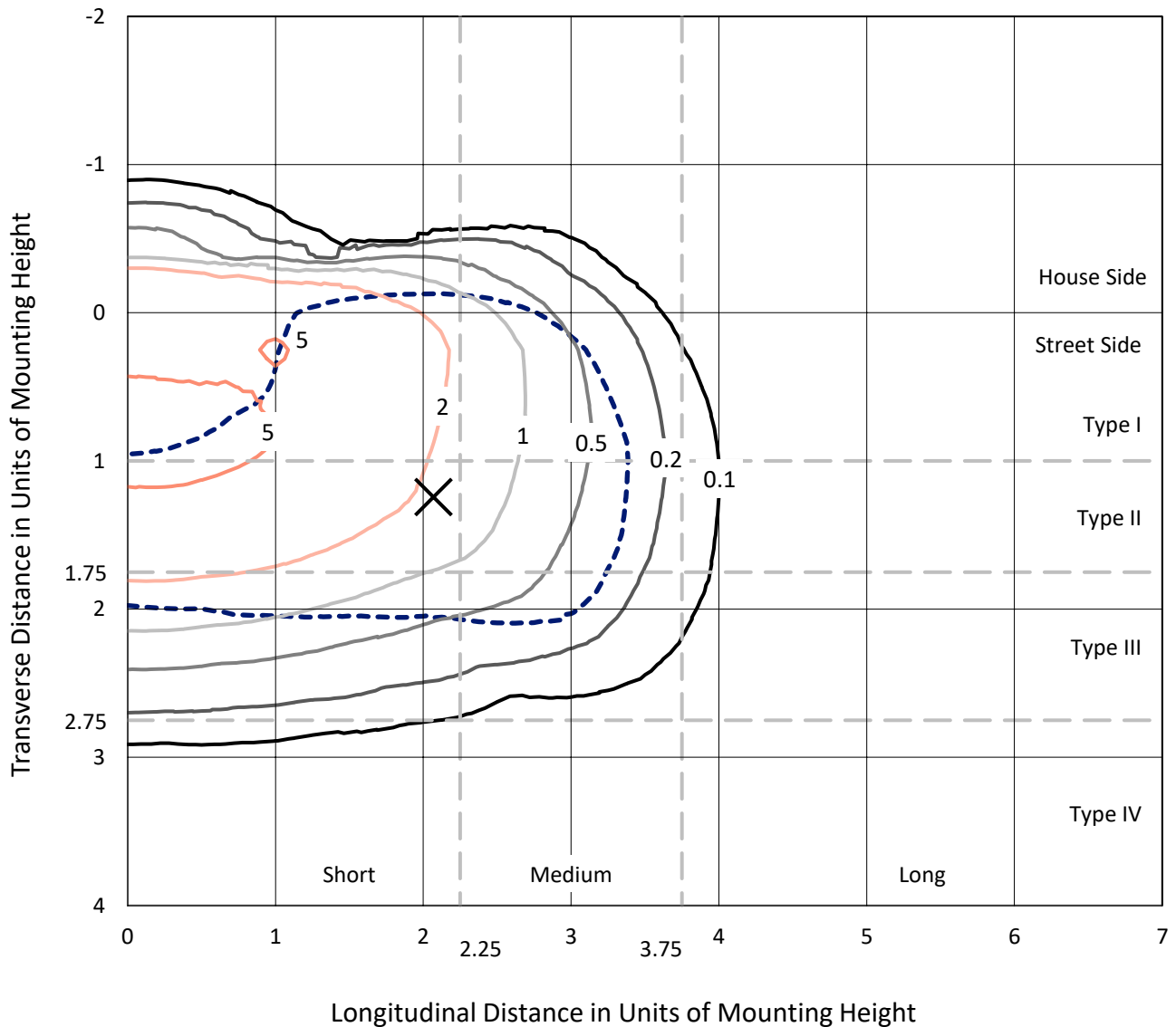
Lumens per Lamp: N/A
Luminaire Lumens: 37024.6 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

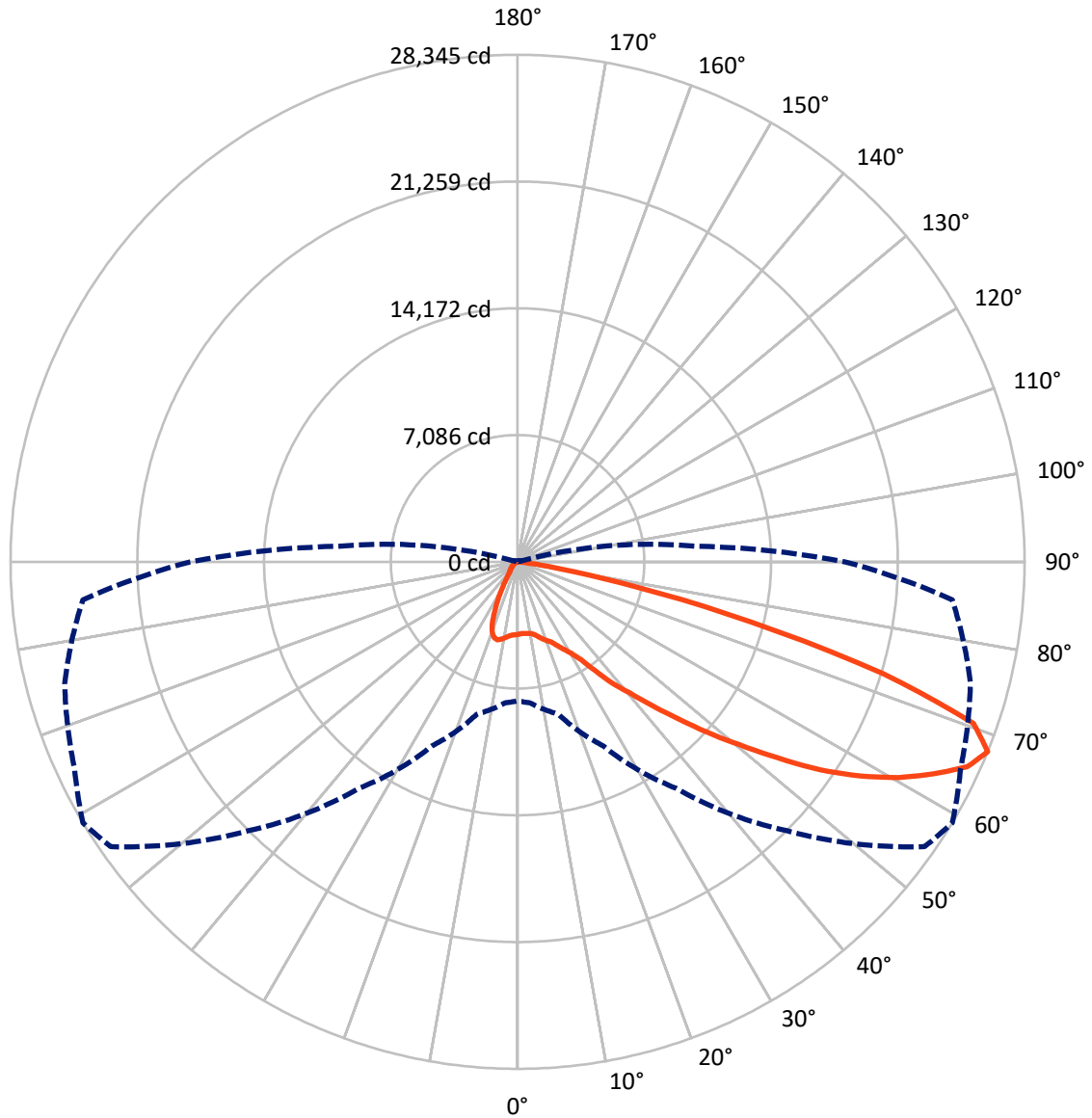
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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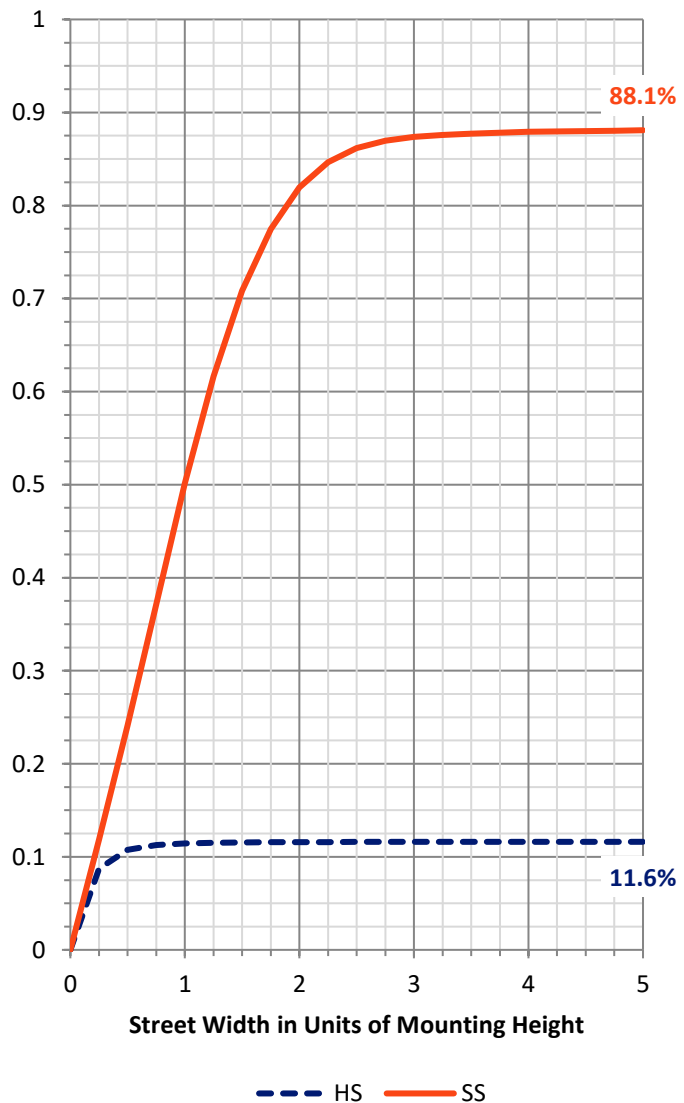
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4349.2	0.0	4349.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	32675.4	0.0	32675.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	37024.6	0.0	37024.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.8	1.0
10°-20°	1114.3	3.0
20°-30°	1947.5	5.3
30°-40°	3428.7	9.3
40°-50°	6060.9	16.4
50°-60°	9596.5	25.9
60°-70°	10645.2	28.8
70°-80°	3693.6	10.0
80°-90°	152.1	0.4
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°	37024.6	100.0
0°-180°	37024.6	100.0

Coefficient of Utilization

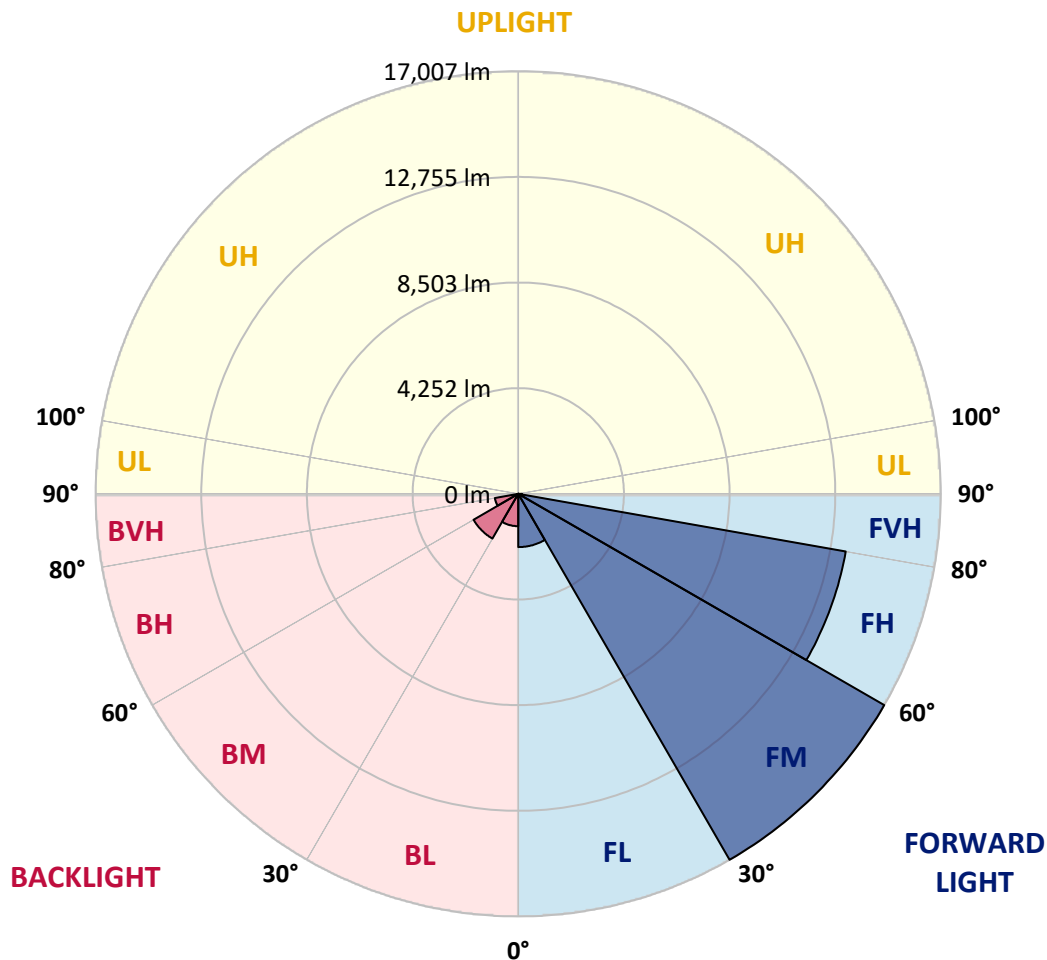


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.0	5.8			
FM (30°-60°)	17006.8	45.9			
FH (60°-80°)	13382.4	36.1			G5
FVH (80°-90°)	142.3	0.4			G2/225
BL (0°-30°)	1303.5	3.5	B3/2500		
BM (30°-60°)	2079.4	5.6	B2/2500		
BH (60°-80°)	956.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9
2.5°	3943.3	3887.0	3938.2	3943.3	3948.4	3994.4	4045.6	4009.8	4004.7	4045.6
5°	3784.7	3759.2	3820.6	3851.2	3902.4	3943.3	4025.1	4030.2	4035.4	4081.4
7.5°	3718.3	3656.9	3728.5	3764.3	3800.1	3897.3	3994.4	4045.6	4117.2	4173.5
10°	3585.3	3631.3	3651.8	3713.1	3815.4	3928.0	4045.6	4071.2	4229.7	4275.7
12.5°	3631.3	3662.0	3702.9	3718.3	3830.8	3999.6	4158.1	4168.3	4332.0	4531.5
15°	3748.9	3728.5	3743.8	3764.3	3897.3	4035.4	4291.1	4337.1	4490.6	4715.6
17.5°	3999.6	3963.8	3938.2	3933.1	3963.8	4091.6	4393.4	4531.5	4674.7	4981.5
20°	4628.6	4598.0	4495.7	4229.7	4137.7	4188.8	4516.1	4710.5	4909.9	5252.6
22.5°	5585.1	5615.7	5375.4	5002.0	4618.4	4418.9	4710.5	4879.3	5196.4	5631.1
25°	6715.4	6654.0	6362.5	5927.7	5324.2	4853.7	5022.5	5211.7	5600.4	5958.4
27.5°	7600.2	7528.6	7303.5	6776.7	6255.1	5493.0	5431.6	5549.3	6009.6	6331.8
30°	8474.8	8500.3	8346.9	7722.9	7078.5	6275.5	5886.8	5938.0	6290.9	6705.1
32.5°	9589.7	9528.4	9441.4	8894.2	8132.1	7272.9	6608.0	6526.1	6679.6	7226.8
35°	10628.0	10592.2	10474.5	9922.2	9257.3	8321.3	7671.8	7487.7	7451.9	8060.5
37.5°	11533.3	11471.9	11292.9	10940.0	10295.5	9507.9	8797.0	8633.3	8628.2	9047.6
40°	12295.3	12341.3	12320.9	11932.2	11579.3	10950.2	9860.8	9600.0	9579.5	9804.5
42.5°	13282.4	13389.8	13333.6	13256.8	12832.3	12586.8	11354.2	10955.3	10776.3	11236.6
45°	14775.9	14816.8	14852.6	14663.3	14238.8	14290.0	12898.8	12423.2	12377.2	13062.5
47.5°	16172.1	16064.7	16315.3	16325.6	16305.1	16069.8	14566.2	14213.3	14274.6	14796.3
50°	16519.9	16796.1	17486.6	17614.4	17946.9	18161.7	16417.6	16064.7	16167.0	16760.3
52.5°	16791.0	17210.4	17900.8	18836.8	19731.8	20243.3	18489.0	18202.6	18197.5	18560.6
55°	17266.6	17522.4	18120.8	19409.6	21112.8	21951.5	20984.9	20524.6	20110.3	20366.0
57.5°	17220.6	17317.8	18248.6	19839.2	22207.3	23731.4	23035.8	22596.0	22064.1	21915.7
60°	16412.5	16642.7	17686.0	19547.7	22882.4	25117.4	24948.7	24498.6	23583.1	23235.3
62.5°	14811.7	15118.5	15936.9	18524.8	21900.4	25189.0	26268.2	26099.4	25076.5	24452.5
65°	12003.8	12147.0	13088.1	15926.6	19680.7	24089.4	27828.1	27618.4	26677.4	25746.5
67.5°	7774.1	7912.2	8817.4	11369.6	15456.1	21250.9	27766.8	28344.7	27326.9	26206.8
70°	3672.2	3636.4	4480.3	6316.4	9901.7	16228.4	25889.7	27030.3	26165.9	23757.0
72.5°	1120.1	1217.3	1861.7	2797.6	5083.8	10121.6	20294.4	21363.4	21092.3	18980.0
75°	496.1	537.0	731.4	1145.7	2061.2	4153.0	12535.7	13487.0	13369.4	11195.7
77.5°	317.1	347.8	460.3	654.7	936.0	1319.5	5774.3	6700.0	6495.4	3933.1
80°	225.0	240.4	327.3	450.1	588.2	542.1	1989.6	2362.9	2265.7	1068.9
82.5°	122.7	133.0	240.4	332.4	393.8	276.2	557.5	695.6	726.3	475.7
85°	46.0	56.3	148.3	235.3	204.6	127.9	163.7	199.5	260.8	260.8
87.5°	0.0	5.1	61.4	102.3	51.1	35.8	46.0	56.3	71.6	122.7
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°
4060.9	0°	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9
4081.4	2.5°	4107.0	4071.2	4086.5	4112.1	4055.8	4086.5	4025.1	4071.2	4086.5	4025.1
4142.8	5°	4158.1	4193.9	4173.5	4132.5	4096.7	4107.0	4091.6	4055.8	4086.5	4096.7
4234.8	7.5°	4306.4	4265.5	4275.7	4229.7	4158.1	4153.0	4055.8	4030.2	4040.5	4050.7
4424.1	10°	4444.5	4470.1	4418.9	4383.1	4265.5	4188.8	4055.8	3912.6	3897.3	3835.9
4608.2	12.5°	4690.0	4628.6	4608.2	4490.6	4372.9	4117.2	3830.8	3610.9	3426.7	3360.2
4904.8	15°	4894.6	4884.4	4848.6	4669.6	4398.5	3933.1	3390.9	2879.5	2526.6	2306.7
5078.7	17.5°	5175.9	5129.9	5063.4	4782.1	4209.3	3452.3	2526.6	1882.1	1529.2	1391.2
5411.2	20°	5390.7	5354.9	5262.8	4756.5	3866.6	2572.6	1565.0	1196.8	1109.9	1084.3
5774.3	22.5°	5702.7	5590.2	5416.3	4628.6	3242.6	1713.4	1125.2	1068.9	1053.6	1033.1
6014.7	25°	5973.8	5871.5	5508.3	4408.7	2311.8	1135.4	1043.4	1012.7	987.1	961.5
6270.4	27.5°	6214.1	6086.3	5605.5	3958.6	1447.4	976.9	966.6	930.8	879.7	838.8
6567.1	30°	6449.4	6301.1	5631.1	3114.7	976.9	884.8	859.2	803.0	736.5	680.2
7063.2	32.5°	6843.2	6664.2	5595.3	2224.8	843.9	787.6	731.4	664.9	567.7	521.7
7774.1	35°	7457.0	7185.9	5549.3	1309.3	756.9	695.6	608.6	521.7	450.1	404.0
8495.2	37.5°	8162.8	7692.2	5416.3	874.6	695.6	613.7	501.2	414.3	352.9	317.1
9482.3	40°	9211.3	8433.9	4904.8	716.0	618.9	521.7	404.0	327.3	281.3	255.7
10945.1	42.5°	10367.1	9282.9	4117.2	644.4	547.3	445.0	322.2	266.0	230.2	204.6
12407.8	45°	11753.2	10167.7	3176.1	588.2	485.9	368.2	266.0	214.8	184.1	163.7
14121.2	47.5°	13297.8	10970.7	2143.0	531.9	409.2	301.8	219.9	163.7	133.0	117.6
15988.0	50°	14678.7	11681.6	1365.6	465.4	358.0	250.6	179.0	133.0	107.4	86.9
17496.8	52.5°	15931.7	12223.7	941.1	409.2	306.9	204.6	148.3	107.4	81.8	66.5
19061.8	55°	17215.5	12499.9	695.6	352.9	266.0	173.9	122.7	97.2	71.6	56.3
20862.1	57.5°	18269.1	12617.5	531.9	306.9	225.0	138.1	107.4	81.8	61.4	46.0
22243.1	60°	19169.2	12561.3	414.3	255.7	179.0	117.6	92.1	66.5	51.1	35.8
24043.4	62.5°	19696.0	12223.7	327.3	219.9	143.2	102.3	76.7	56.3	35.8	25.6
24969.1	65°	19706.3	11507.7	255.7	163.7	107.4	86.9	66.5	46.0	25.6	10.2
24391.2	67.5°	18294.7	9958.0	204.6	127.9	86.9	66.5	51.1	35.8	10.2	0.0
20258.6	70°	14310.4	7533.7	168.8	102.3	71.6	56.3	35.8	20.5	5.1	0.0
13522.8	72.5°	9119.2	4511.0	138.1	81.8	61.4	40.9	25.6	15.3	0.0	0.0
6173.2	75°	3815.4	1391.2	107.4	71.6	46.0	30.7	20.5	5.1	0.0	0.0
1616.2	77.5°	982.0	439.8	86.9	61.4	46.0	25.6	15.3	5.1	0.0	0.0
434.7	80°	291.5	163.7	71.6	51.1	35.8	20.5	10.2	5.1	0.0	0.0
209.7	82.5°	133.0	97.2	61.4	46.0	30.7	20.5	10.2	0.0	0.0	0.0
97.2	85°	51.1	30.7	30.7	25.6	25.6	15.3	5.1	0.0	0.0	0.0
35.8	87.5°	20.5	10.2	10.2	10.2	5.1	5.1	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°
4060.9
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1340.0
1089.4
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823.4
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393.8
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