

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: P574822

Luminaire Tested: **EPH-VN-04-750-U-T4W**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574822  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-750-U-T4W  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

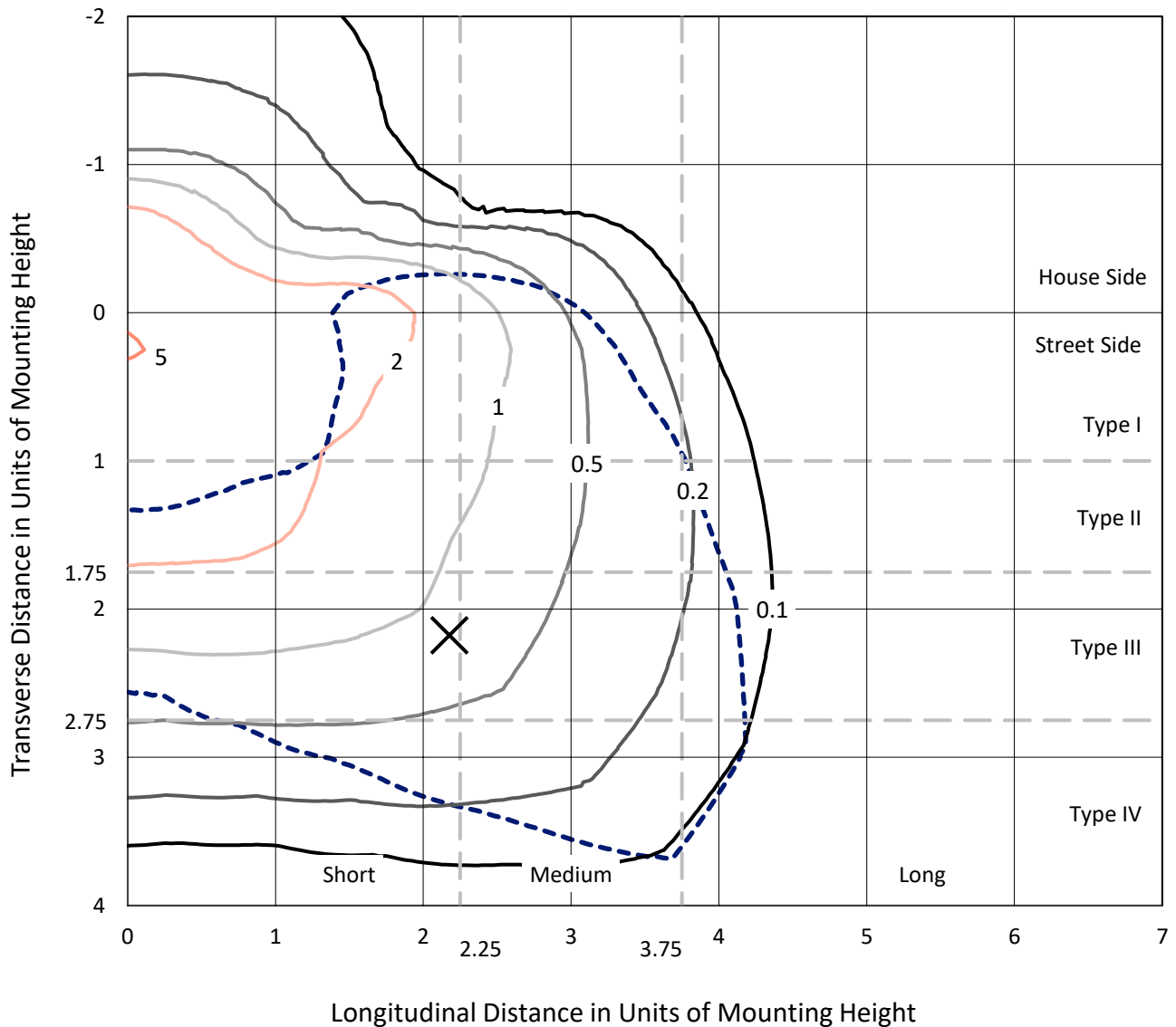
Lumens per Lamp: N/A  
Luminaire Lumens: 36161.2 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 303.8  
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

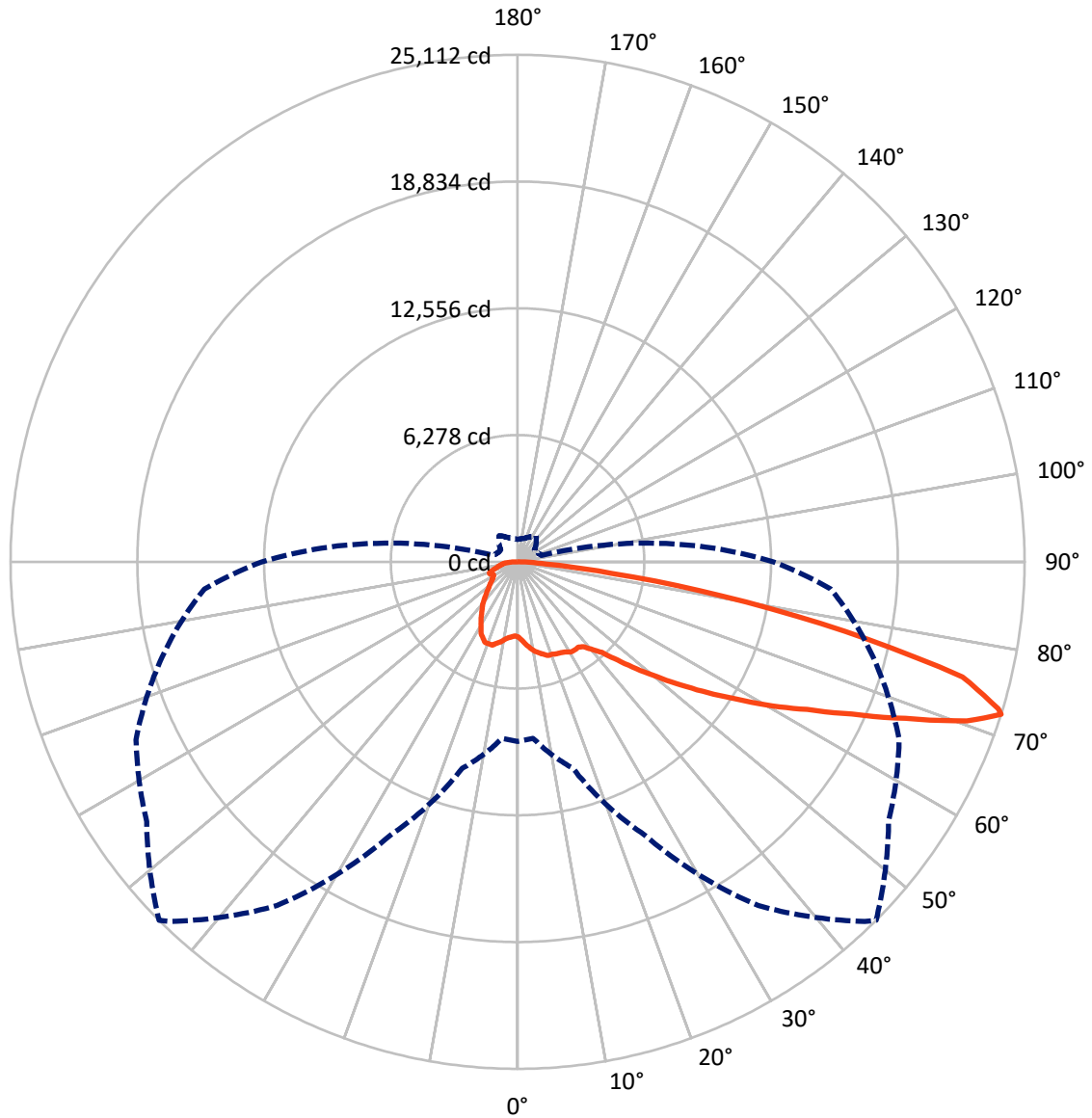
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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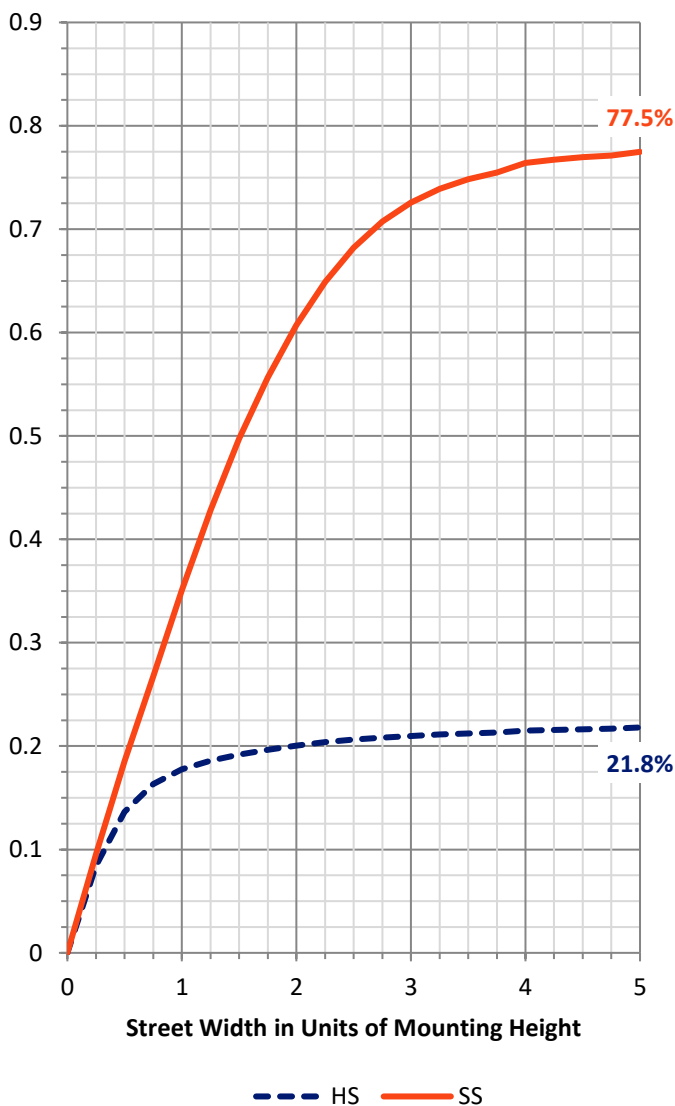
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8049.7	0.0	8049.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	28111.5	0.0	28111.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	36161.2	0.0	36161.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.1	1.1
10°-20°	1267.8	3.5
20°-30°	2141.0	5.9
30°-40°	2962.8	8.2
40°-50°	4238.0	11.7
50°-60°	6835.4	18.9
60°-70°	10081.2	27.9
70°-80°	7320.7	20.2
80°-90°	933.2	2.6
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°	36161.2	100.0
0°-180°	36161.2	100.0

**Coefficient of Utilization**

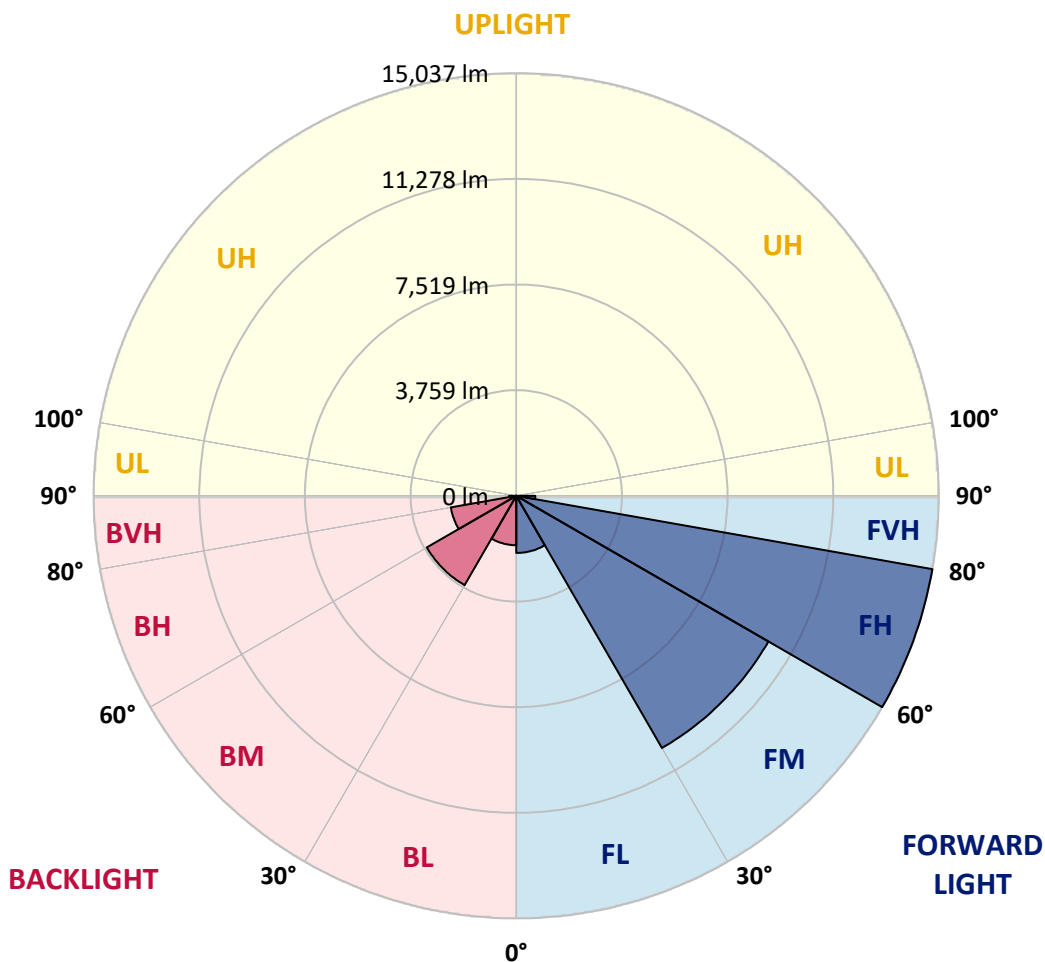


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2032.3	5.6			
FM (30°-60°)	10362.5	28.7			
FH (60°-80°)	15037.5	41.6			G5
FVH (80°-90°)	679.2	1.9			G4/750
BL (0°-30°)	1757.6	4.9	B3/2500		
BM (30°-60°)	3673.6	10.2	B3/5000		
BH (60°-80°)	2364.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	254.0	0.7			G3/500
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°	35°	44°	45°	55°	65°	75°
0°	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0
2.5°	3922.8	3946.2	3922.8	3918.9	3879.9	3852.6	3876.0	3840.9	3801.9	3786.3
5°	4281.6	4285.5	4242.6	4246.5	4164.6	4078.8	4094.4	3989.1	3876.0	3833.1
7.5°	4648.1	4605.2	4542.8	4523.3	4394.7	4301.1	4289.4	4195.8	4020.3	3922.8
10°	4886.0	4901.6	4800.2	4714.4	4605.2	4492.1	4488.2	4312.8	4211.4	4067.1
12.5°	5096.6	5100.5	5014.7	4878.2	4741.7	4601.3	4620.8	4542.8	4371.3	4234.8
15°	5260.3	5236.9	5143.3	5018.6	4874.3	4765.1	4753.4	4687.1	4542.8	4429.7
17.5°	5307.1	5295.4	5201.8	5069.3	4928.9	4847.0	4878.2	4769.0	4710.5	4609.1
20°	5217.4	5190.1	5174.5	5026.4	4925.0	4917.2	4889.9	4913.3	4815.8	4722.2
22.5°	5053.7	5042.0	5034.2	4917.2	4870.4	4905.5	4952.3	4987.4	4971.8	4882.1
25°	4886.0	4940.6	4889.9	4835.3	4901.6	4991.3	4979.6	5092.7	5092.7	5065.4
27.5°	5003.0	4967.9	4928.9	4901.6	4925.0	5065.4	5057.6	5194.0	5244.7	5194.0
30°	5295.4	5260.3	5147.2	5026.4	4995.2	5147.2	5186.2	5307.1	5330.5	5205.7
32.5°	5845.2	5825.7	5646.4	5291.5	5100.5	5186.2	5205.7	5342.2	5322.7	5244.7
35°	6660.2	6593.9	6344.4	5743.9	5322.7	5236.9	5186.2	5295.4	5369.5	5330.5
37.5°	7553.2	7479.1	7171.0	6410.7	5724.4	5373.4	5334.4	5424.1	5509.9	5490.4
40°	8407.2	8407.2	8130.3	7245.1	6321.0	5704.9	5712.7	5611.3	5689.3	5654.2
42.5°	9249.4	9218.2	9105.2	8223.9	6960.5	6258.6	6133.8	5880.3	6020.7	6009.0
45°	10103.4	10080.0	10048.8	9136.4	7876.8	7007.3	6941.0	6484.7	6613.4	6558.8
47.5°	10785.8	10813.1	10813.1	10154.1	8855.6	8005.5	7908.0	7186.6	7432.3	7459.6
50°	11366.8	11378.5	11366.8	11125.1	9947.4	9148.1	8949.2	8216.1	8461.8	8676.2
52.5°	12170.1	12185.7	12131.1	12037.5	11429.2	10349.1	10126.8	9311.8	9814.9	10041.0
55°	13160.6	13043.6	12942.2	13012.4	12852.5	11671.0	11440.9	10442.7	11199.2	11499.4
57.5°	13343.8	13445.2	13702.6	14260.2	14490.3	12957.8	12825.2	11830.9	12762.8	13024.1
60°	13991.1	13823.5	14455.2	15664.0	15921.4	14634.6	14498.1	13351.6	14318.7	14591.7
62.5°	14416.2	14408.4	15344.2	16779.2	17364.2	16373.7	16096.8	15328.6	15999.4	16264.5
65°	14291.4	14404.5	16065.6	17434.3	18569.1	18350.7	18190.8	17028.8	17914.0	17890.6
67.5°	13152.8	13472.5	15609.4	17906.2	20362.8	20760.6	20709.9	19419.1	19469.8	18974.6
70°	11573.5	11464.3	13679.2	17414.8	21259.7	23618.8	23607.1	21197.3	20869.7	19212.5
72°	8890.7	8769.8	10590.8	14954.3	20787.8	24761.4	25112.3	22429.5	20854.1	18225.9
72.5°	8071.8	7966.5	9779.8	14076.9	20265.3	25057.7	24893.9	22476.3	20690.4	17761.9
75°	3716.2	3595.3	4886.0	8617.7	15808.3	22203.3	22761.0	21033.5	18069.9	14139.3
77.5°	1107.4	1072.3	1571.5	3478.3	9187.1	16358.1	16572.6	15870.7	12614.6	7744.3
80°	616.1	620.0	811.1	1302.4	4039.8	9456.1	10228.2	9803.2	6188.4	2558.0
82.5°	343.1	362.6	506.9	772.1	1856.1	4340.1	4671.5	4503.8	2238.3	1201.0
85°	179.4	187.2	265.2	413.3	1052.8	1372.6	1411.6	1513.0	1162.0	818.9
87.5°	70.2	70.2	97.5	171.6	389.9	425.0	382.1	464.0	666.8	530.3
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°
3724.0	0°	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0	3724.0
3751.2	2.5°	3782.4	3751.2	3747.3	3696.7	3712.3	3669.4	3673.3	3665.5	3669.4	3661.6
3762.9	5°	3762.9	3739.6	3673.3	3716.2	3677.2	3731.8	3774.6	3759.0	3770.7	3766.8
3825.3	7.5°	3790.2	3759.0	3751.2	3727.9	3762.9	3786.3	3821.4	3918.9	3911.1	3922.8
3942.3	10°	3872.1	3837.0	3813.6	3848.7	3829.2	3903.3	3942.3	3993.0	4082.7	4086.6
4110.0	12.5°	4032.0	4008.6	3961.8	3969.6	4035.9	4059.3	4082.7	4113.9	4172.4	4160.7
4223.1	15°	4215.3	4164.6	4137.3	4129.5	4145.1	4172.4	4168.5	4199.7	4230.9	4258.2
4410.3	17.5°	4347.9	4281.6	4289.4	4328.4	4324.5	4316.7	4266.0	4250.4	4266.0	4281.6
4577.9	20°	4484.3	4492.1	4433.6	4398.6	4383.0	4305.0	4266.0	4219.2	4172.4	4195.8
4718.3	22.5°	4655.9	4620.8	4535.0	4429.7	4351.8	4305.0	4184.1	4102.2	4102.2	4125.6
4928.9	25°	4850.9	4776.8	4628.6	4437.5	4340.1	4141.2	4055.4	4043.7	4012.5	4047.6
5038.1	27.5°	5003.0	4936.7	4733.9	4410.3	4141.2	3981.3	3930.6	3915.0	3965.7	3969.6
5073.2	30°	5065.4	5045.9	4749.5	4340.1	3938.4	3681.1	3649.9	3720.1	3774.6	3856.5
5190.1	32.5°	5147.2	5155.0	4772.9	4176.3	3673.3	3415.9	3369.1	3454.9	3610.9	3677.2
5279.8	35°	5283.7	5322.7	4753.4	3973.5	3392.5	3146.8	3139.0	3162.4	3314.5	3431.5
5385.1	37.5°	5521.6	5513.8	4749.5	3731.8	3170.2	2912.9	2850.5	2858.3	2959.7	3057.2
5673.7	40°	5841.3	5810.1	4737.8	3415.9	2881.7	2714.0	2608.7	2569.7	2561.9	2534.6
6036.3	42.5°	6278.1	6215.7	4733.9	3096.1	2620.4	2441.0	2367.0	2265.6	2191.5	2051.1
6675.8	45°	6886.4	6777.2	4632.5	2795.9	2363.1	2214.9	2101.8	2027.7	1867.8	1692.4
7486.9	47.5°	7826.2	7471.3	4636.4	2464.4	2113.5	1992.6	1914.6	1785.9	1614.4	1474.0
8925.8	50°	9210.4	8399.4	4503.8	2203.2	1910.7	1828.8	1746.9	1598.8	1435.0	1337.5
10489.5	52.5°	10996.4	9783.7	4499.9	1969.2	1750.8	1692.4	1602.7	1470.1	1349.2	1286.8
12396.3	55°	13125.5	11616.4	4640.3	1778.1	1587.1	1555.9	1516.9	1407.7	1290.7	1236.1
14521.5	57.5°	15305.3	13406.2	4866.5	1641.7	1446.7	1470.1	1442.8	1357.0	1263.4	1201.0
16482.9	60°	17243.3	14825.6	4410.3	1477.9	1321.9	1372.6	1411.6	1337.5	1286.8	1282.9
18619.8	62.5°	18705.6	15433.9	3353.5	1353.1	1255.6	1349.2	1454.5	1501.3	1477.9	1509.1
20011.9	65°	19239.8	15067.4	2308.5	1286.8	1204.9	1403.8	1637.8	1622.2	1485.7	1427.2
20631.9	67.5°	18491.1	13581.7	1711.8	1208.8	1169.8	1516.9	1743.0	1548.1	1341.4	1333.6
18853.7	70°	15901.9	11511.1	1396.0	1126.9	1111.3	1454.5	1696.3	1435.0	1263.4	1212.7
15574.3	72°	12669.2	8964.8	1224.4	1068.4	1017.8	1298.5	1587.1	1345.3	1197.1	1134.7
14548.8	72.5°	11565.7	8309.7	1201.0	1041.1	998.3	1263.4	1532.5	1318.0	1181.5	1126.9
8715.2	75°	6344.4	4254.3	1056.7	955.4	842.3	1091.8	1419.4	1236.1	1115.2	1037.2
3232.6	77.5°	2359.2	1649.5	912.5	846.2	729.2	943.7	1290.7	1173.7	1013.9	916.4
1076.2	80°	904.7	869.6	744.8	713.6	612.2	826.7	1189.3	1052.8	861.8	764.3
588.8	82.5°	549.8	506.9	565.4	557.6	467.9	752.6	1119.1	986.6	764.3	620.0
315.9	85°	300.3	300.3	393.8	378.2	327.6	600.5	846.2	655.1	483.5	397.7
156.0	87.5°	132.6	156.0	210.6	198.9	179.4	339.3	413.3	347.0	241.8	163.8
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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<u>180°</u>
3724.0
3642.1
3770.7
3946.2
4039.8
4203.6
4246.5
4273.8
4230.9
4113.9
4063.2
4032.0
3860.4
3727.9
3497.8
3045.5
2542.4
2058.9
1692.4
1458.4
1349.2
1263.4
1232.2
1193.2
1255.6
1513.0
1458.4
1310.2
1189.3
<i>1107.4</i>
1084.0
1029.4
896.9
733.1
600.5
405.5
175.5
0.0

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