

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: P574702

Luminaire Tested: **EPH-VN-04-750-U-T3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574702  
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-T3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

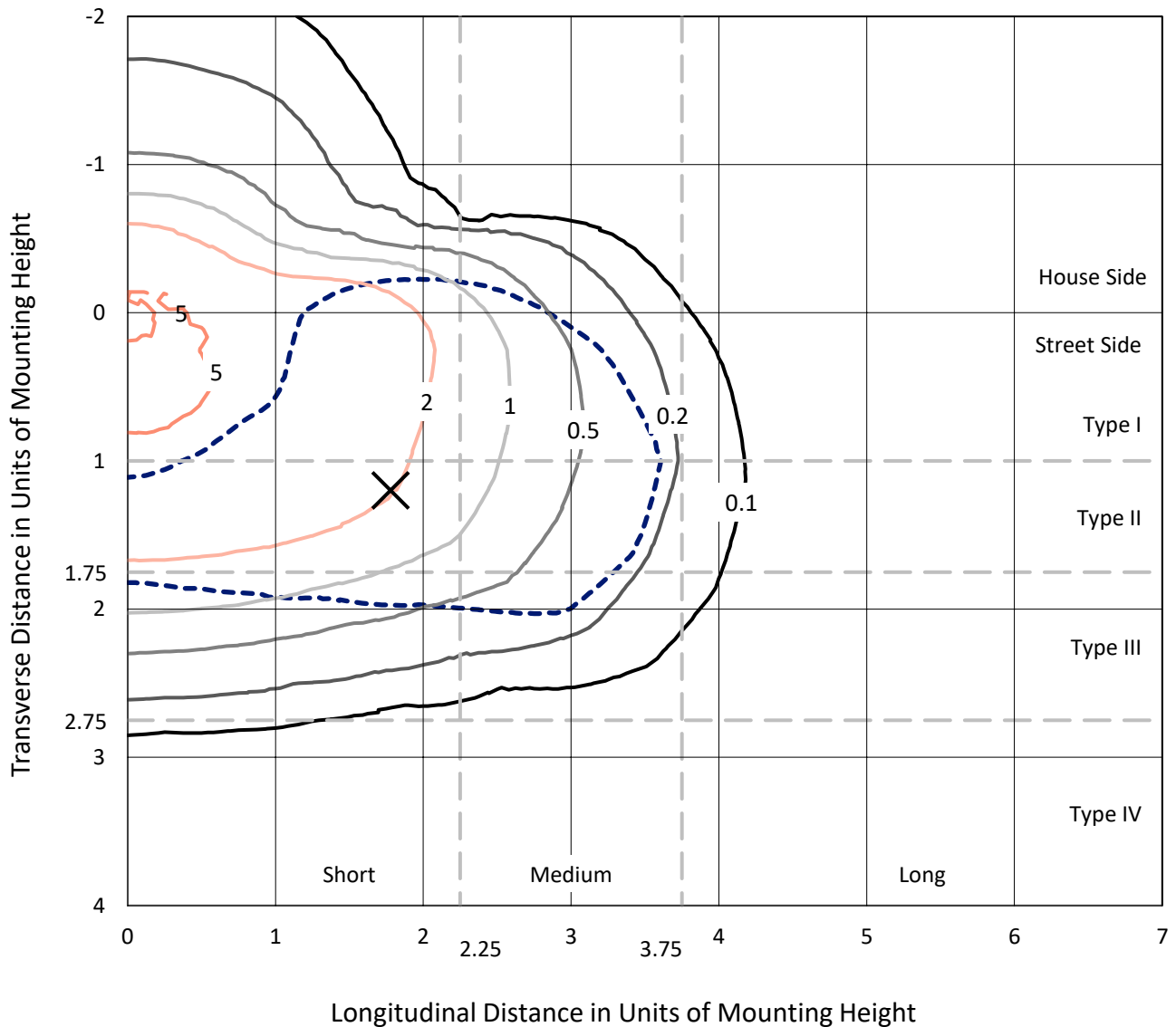
Lumens per Lamp: N/A  
Luminaire Lumens: 36438.2 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

REPORT NUMBER: P574702  
 CATALOG NUMBER: EPH-VN-04-750-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

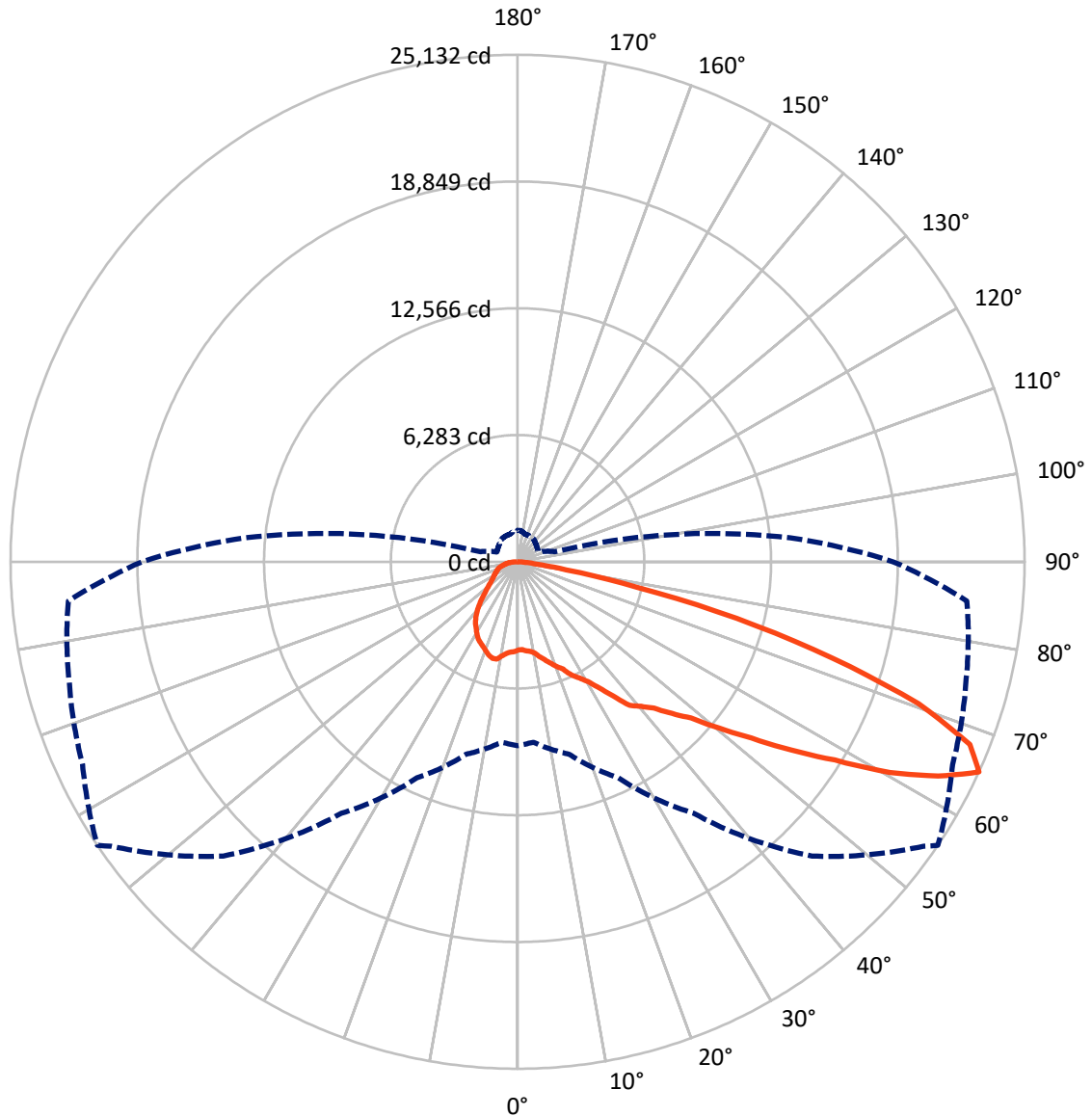
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P574702  
CATALOG NUMBER: EPH-VN-04-750-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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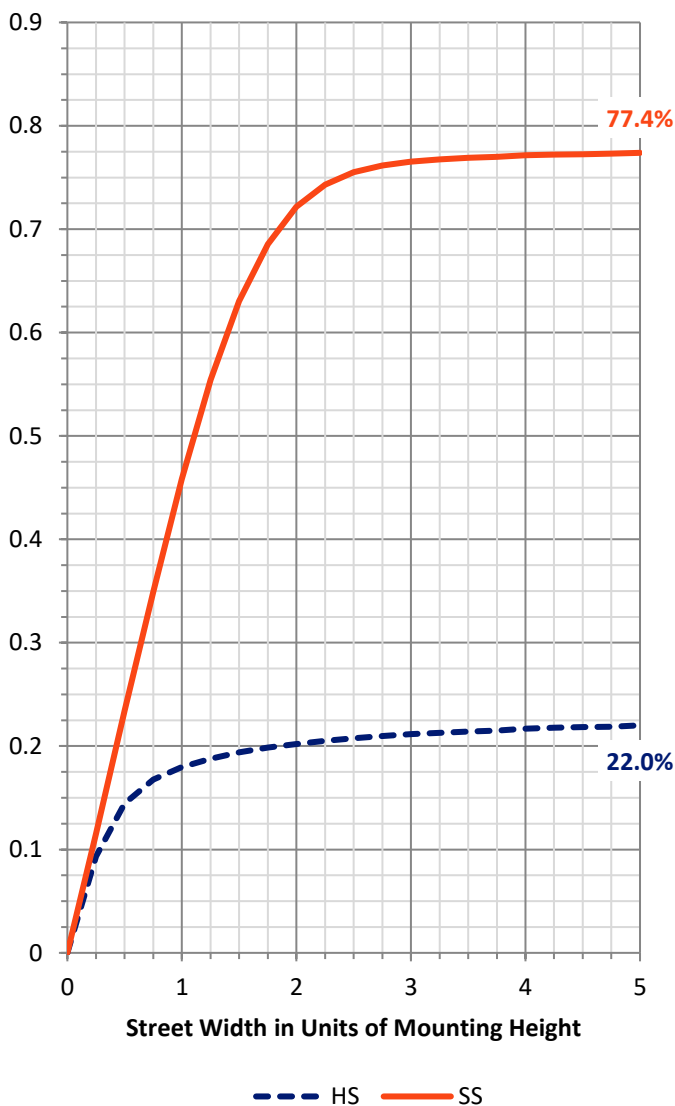
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8171.9	0.0	8171.9
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	28266.3	0.0	28266.3
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	36438.2	0.0	36438.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.4	1.2
10°-20°	1407.3	3.9
20°-30°	2505.9	6.9
30°-40°	3752.4	10.3
40°-50°	5559.7	15.3
50°-60°	8566.8	23.5
60°-70°	9698.6	26.6
70°-80°	4025.0	11.0
80°-90°	489.0	1.3
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°	36438.2	100.0
0°-180°	36438.2	100.0

**Coefficient of Utilization**



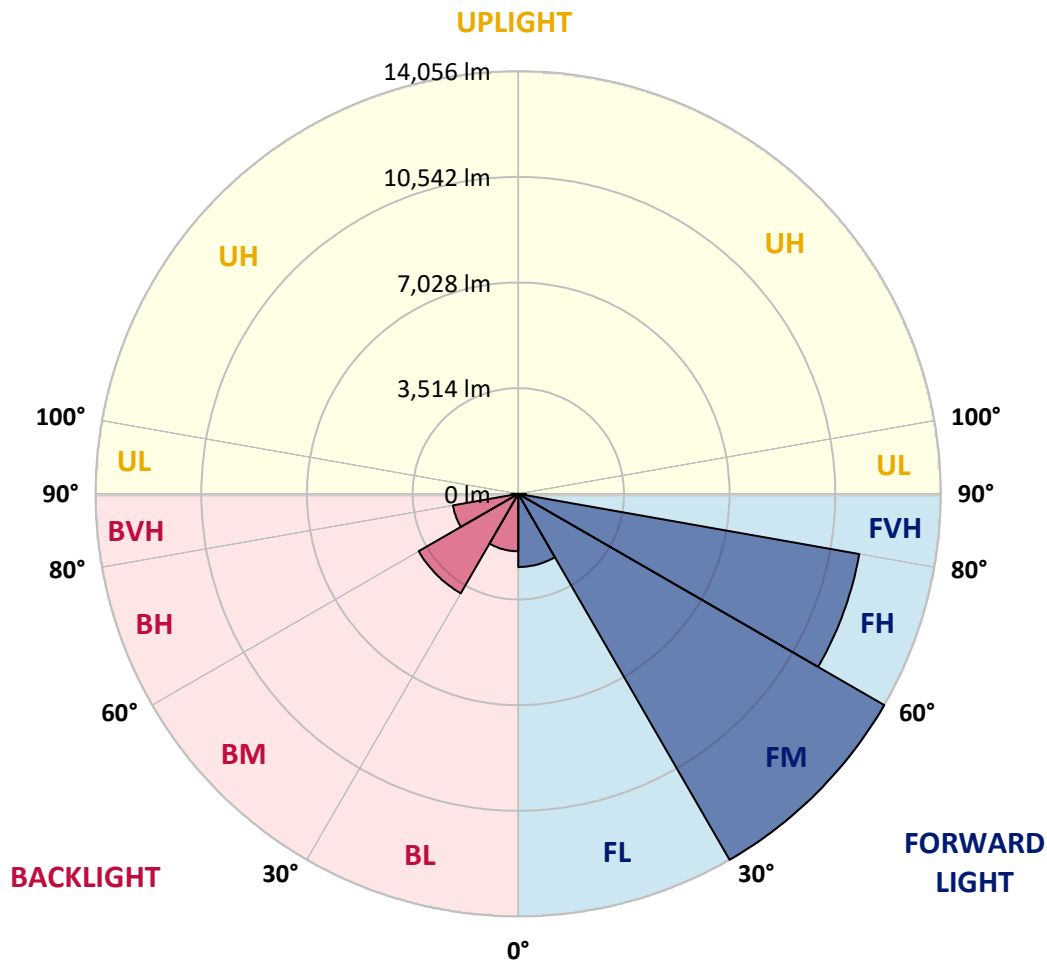
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 CATALOG NUMBER: EPH-VN-04-750-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2435.1	6.7			
FM (30°-60°)	14056.2	38.6			
FH (60°-80°)	11517.0	31.6			G4/12000
FVH (80°-90°)	257.9	0.7			G3/500
BL (0°-30°)	1911.5	5.2	B3/2500		
BM (30°-60°)	3822.7	10.5	B3/5000		
BH (60°-80°)	2206.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	231.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





REPORT NUMBER: P574702  
 CATALOG NUMBER: EPH-VN-04-750-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6
2.5°	4259.2	4282.1	4266.9	4312.6	4350.7	4350.7	4381.2	4358.4	4388.9	4430.8
5°	4400.3	4308.8	4358.4	4381.2	4369.8	4388.9	4358.4	4434.6	4385.1	4465.1
7.5°	4434.6	4468.9	4510.9	4472.8	4507.1	4488.0	4491.8	4480.4	4453.7	4518.5
10°	4686.3	4636.7	4732.1	4674.9	4667.2	4659.6	4644.3	4587.2	4652.0	4655.8
12.5°	4976.1	4930.3	4926.5	4880.8	4941.8	4831.2	4854.1	4823.6	4835.0	4850.3
15°	5185.8	5166.7	5254.4	5201.1	5121.0	5071.4	5124.8	5040.9	5082.9	5075.2
17.5°	5601.4	5597.6	5532.8	5445.1	5399.3	5326.9	5315.5	5281.1	5311.6	5296.4
20°	5891.2	5933.2	5944.6	5841.7	5666.3	5586.2	5567.1	5540.4	5574.7	5563.3
22.5°	6333.6	6268.7	6318.3	6139.1	6074.3	5883.6	5815.0	5776.8	5940.8	5898.9
25°	6615.7	6684.4	6634.8	6573.8	6428.9	6192.5	6142.9	6226.8	6291.6	6245.8
27.5°	7252.5	7183.9	7138.1	6955.1	6859.8	6611.9	6554.7	6524.2	6539.5	6566.1
30°	7736.8	7774.9	7671.9	7542.3	7302.1	7050.4	6917.0	6890.3	6836.9	6791.1
32.5°	8426.9	8369.7	8308.7	8224.8	8018.9	7687.2	7557.6	7458.4	7298.3	7084.7
35°	8758.7	8922.6	8876.9	8651.9	8495.6	8369.7	8331.6	8179.1	8045.6	7710.1
37.5°	9311.6	9380.2	9315.4	9242.9	9170.5	9037.0	8991.3	9033.2	8770.1	8217.2
40°	9670.0	9814.9	9948.4	9746.3	9731.0	9757.7	9475.5	9426.0	8884.5	8594.7
42.5°	10402.1	10463.1	10489.8	10482.2	10569.9	10569.9	10032.3	9925.5	9540.4	9304.0
45°	11370.6	11420.2	11515.5	11584.2	11485.0	11534.6	10768.2	10726.2	10383.1	10337.3
47.5°	12209.5	12327.7	12541.3	12743.4	12873.0	12705.2	11866.4	11568.9	11481.2	11755.8
50°	12941.6	12800.6	13300.1	13506.0	14074.1	14352.5	13078.9	12960.7	12819.6	13345.8
52.5°	13014.1	13204.7	13910.2	14322.0	15492.6	16007.4	14566.0	14516.5	14344.9	14951.1
55°	13532.7	13509.8	14219.0	15111.3	16503.1	17368.6	16503.1	16472.6	16098.9	16674.7
57.5°	13445.0	13677.6	14238.1	15485.0	17414.4	18829.1	18749.0	18539.3	18016.9	18485.9
60°	13147.6	13208.6	13891.1	15473.5	17944.4	20327.6	21174.1	21216.1	20148.4	20522.1
62.5°	11462.2	11603.2	12468.8	14257.2	17566.9	21361.0	23542.0	23393.3	22539.2	22112.1
65°	9117.1	8976.0	9875.9	11809.2	15218.1	20628.8	24579.2	25132.1	23789.9	23008.2
67.5°	5590.0	5555.7	6421.3	8125.7	11385.9	17555.5	23751.8	24182.6	23442.9	22817.6
70°	2878.9	2791.2	3332.6	4533.8	7157.2	12880.6	20670.8	21094.0	21799.5	20464.9
72.5°	1342.2	1323.1	1612.9	2230.7	3645.3	7572.8	16007.4	16312.4	17799.5	17254.3
75°	789.3	800.7	964.7	1166.8	1776.9	3569.1	10623.3	11214.3	12827.3	12434.5
77.5°	591.0	591.0	686.4	812.2	1037.2	1380.3	5243.0	6024.7	7500.4	6745.4
80°	434.7	442.3	526.2	610.1	720.7	713.0	2081.9	2440.4	3439.4	2939.9
82.5°	339.4	350.8	408.0	453.8	507.1	430.9	854.1	919.0	1414.7	1124.9
85°	236.4	244.0	320.3	308.9	308.9	240.2	354.6	373.7	560.5	533.8
87.5°	57.2	64.8	156.3	171.6	129.6	72.4	110.6	125.8	202.1	232.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574702  
 CATALOG NUMBER: EPH-VN-04-750-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4373.6	0°	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6
4449.9	2.5°	4392.7	4407.9	4472.8	4438.4	4457.5	4377.4	4442.3	4388.9	4434.6	4411.8
4484.2	5°	4514.7	4480.4	4518.5	4491.8	4491.8	4522.3	4568.1	4533.8	4602.4	4571.9
4510.9	7.5°	4564.3	4568.1	4591.0	4594.8	4575.7	4671.0	4674.9	4663.4	4728.2	4713.0
4693.9	10°	4686.3	4690.1	4732.1	4754.9	4735.9	4770.2	4732.1	4701.5	4697.7	4682.5
4838.8	12.5°	4880.8	4918.9	4911.3	4930.3	4934.1	4789.2	4701.5	4552.8	4533.8	4552.8
5052.4	15°	5060.0	5044.7	5052.4	5090.5	4930.3	4697.7	4541.4	4415.6	4423.2	4427.0
5330.7	17.5°	5273.5	5284.9	5296.4	5121.0	4827.4	4552.8	4415.6	4415.6	4377.4	4392.7
5525.2	20°	5517.5	5471.8	5372.7	5124.8	4648.2	4385.1	4343.1	4343.1	4297.4	4266.9
5734.9	22.5°	5708.2	5616.7	5468.0	5006.6	4488.0	4320.2	4217.3	4144.8	4091.5	4030.4
5967.5	25°	5830.2	5780.7	5490.9	4884.6	4369.8	4148.6	3996.1	3885.5	3816.9	3736.8
6150.5	27.5°	6017.1	5921.7	5555.7	4743.5	4240.2	3977.1	3740.6	3569.1	3439.4	3355.5
6428.9	30°	6268.7	6131.5	5509.9	4541.4	4041.9	3679.6	3401.3	3180.1	3031.4	2962.8
6692.0	32.5°	6474.6	6295.4	5471.8	4358.4	3820.7	3378.4	3008.5	2783.6	2699.7	2612.0
7134.3	35°	6867.4	6512.8	5445.1	4255.4	3622.4	3077.2	2688.2	2493.8	2387.0	2257.4
7397.4	37.5°	7168.6	6890.3	5380.3	4041.9	3367.0	2783.6	2444.2	2268.8	2108.6	1971.4
8007.5	40°	7641.4	7416.5	5384.1	3740.6	3065.7	2531.9	2253.5	2070.5	1868.4	1750.2
8911.2	42.5°	8529.9	7935.1	5407.0	3500.4	2726.4	2326.0	2081.9	1864.6	1662.5	1563.4
9940.7	45°	9620.4	8648.1	5265.9	3283.1	2379.4	2131.5	1876.0	1658.7	1529.1	1456.6
11340.1	47.5°	10874.9	9345.9	5075.2	2875.1	2089.6	1925.6	1685.4	1559.6	1464.2	1422.3
13143.7	50°	12278.2	10344.9	5021.8	2501.4	1864.6	1750.2	1593.9	1498.5	1433.7	1384.2
15176.1	52.5°	14085.6	11507.9	4915.1	2116.3	1670.1	1609.1	1559.6	1494.7	1437.5	1395.6
17071.2	55°	15812.9	12796.7	4800.7	1799.8	1532.9	1540.5	1567.2	1510.0	1460.4	1395.6
19195.1	57.5°	17757.6	14112.3	4377.4	1567.2	1429.9	1506.2	1559.6	1494.7	1445.2	1395.6
21368.6	60°	18958.7	14852.0	3550.0	1365.1	1338.4	1441.3	1513.8	1445.2	1391.8	1410.8
22367.6	62.5°	19446.8	14463.1	2676.8	1239.3	1273.6	1353.6	1441.3	1414.7	1376.5	1449.0
22356.2	65°	18615.5	13567.0	1914.2	1132.5	1185.9	1265.9	1376.5	1407.0	1418.5	1559.6
20533.5	67.5°	16564.1	11813.0	1407.0	1044.8	1094.4	1212.6	1422.3	1471.9	1464.2	1639.6
17231.4	70°	13254.3	9239.1	1098.2	972.3	1060.0	1254.5	1487.1	1487.1	1433.7	1639.6
13143.7	72.5°	9643.3	6512.8	945.6	888.5	972.3	1151.6	1479.5	1475.7	1407.0	1498.5
8369.7	75°	5837.8	3790.2	835.1	804.6	835.1	987.6	1414.7	1391.8	1296.5	1288.8
4026.6	77.5°	2909.4	1906.5	682.5	713.0	728.3	827.4	1243.1	1277.4	1147.7	1117.2
1590.1	80°	1227.8	831.3	568.2	613.9	613.9	697.8	1033.3	1056.2	953.3	896.1
629.2	82.5°	560.5	476.6	484.3	533.8	499.5	541.5	819.8	846.5	774.1	678.7
266.9	85°	236.4	270.7	369.9	419.4	369.9	350.8	564.3	594.8	503.3	419.4
114.4	87.5°	106.8	148.7	232.6	305.0	186.8	164.0	301.2	312.7	251.7	186.8
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>
4373.6
4369.8
4530.0
4690.1
4682.5
4560.5
4480.4
4396.5
4221.1
3996.1
3752.1
3393.7
3000.9
2608.2
2245.9
1975.2
1761.6
1571.0
1471.9
1414.7
1391.8
1391.8
1391.8
1391.8
1395.6
1429.9
1559.6
1651.1
1605.3
1445.2
1273.6
1098.2
877.0
663.5
423.3
175.4
0.0

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