

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: P575299

Luminaire Tested: **EPH-VN-07-740-U-T4FT-HSS**

Issue Date: 10/19/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P575299  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-740-U-T4FT-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT  
distribution lens and House Side Shield  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

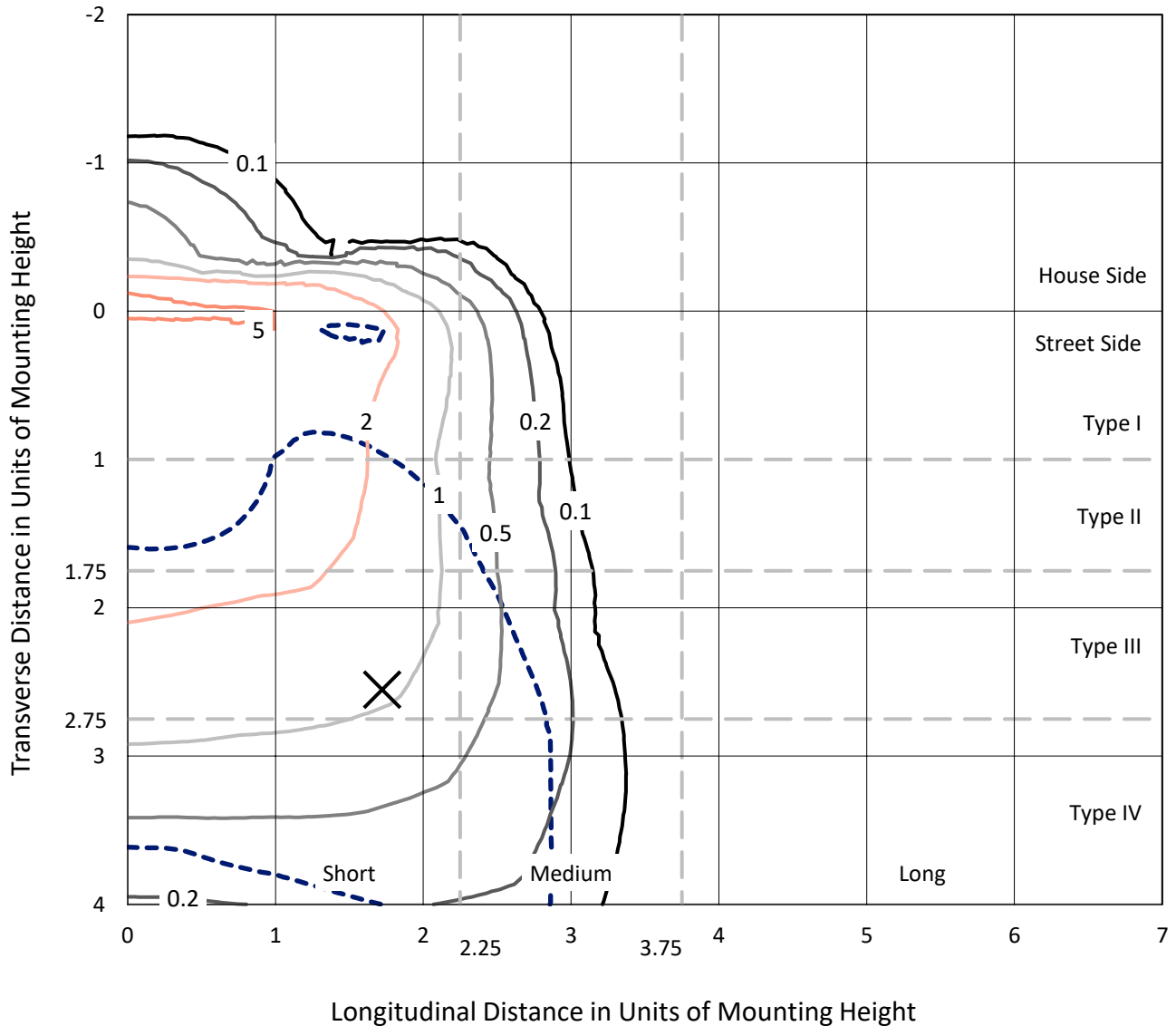
Lumens per Lamp: N/A  
Luminaire Lumens: 35272 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

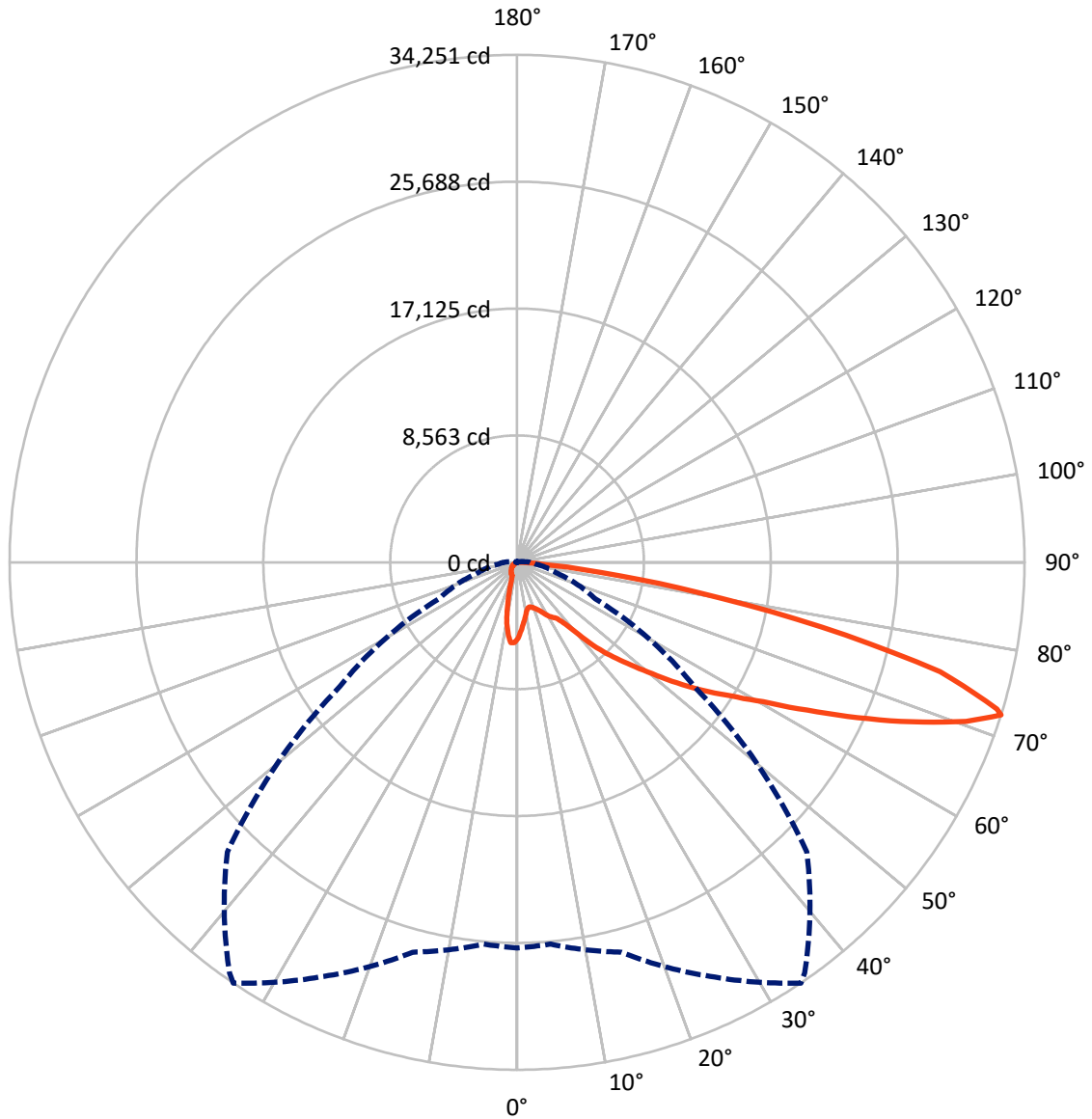
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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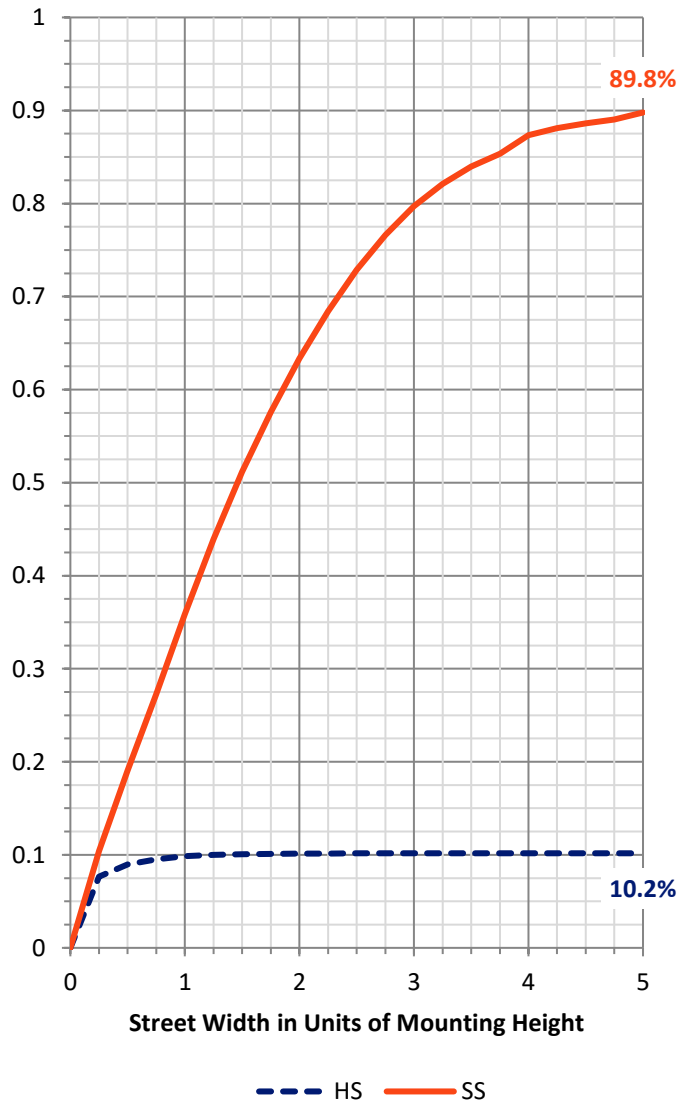
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3611.0	0.0	3611.0
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	31661.0	0.0	31661.0
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	35272.0	0.0	35272.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.0	1.3
10°-20°	1014.2	2.9
20°-30°	1530.8	4.3
30°-40°	2484.2	7.0
40°-50°	4671.4	13.2
50°-60°	7637.8	21.7
60°-70°	10153.3	28.8
70°-80°	6799.6	19.3
80°-90°	532.9	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°	35272.0	100.0
0°-180°	35272.0	100.0

**Coefficient of Utilization**

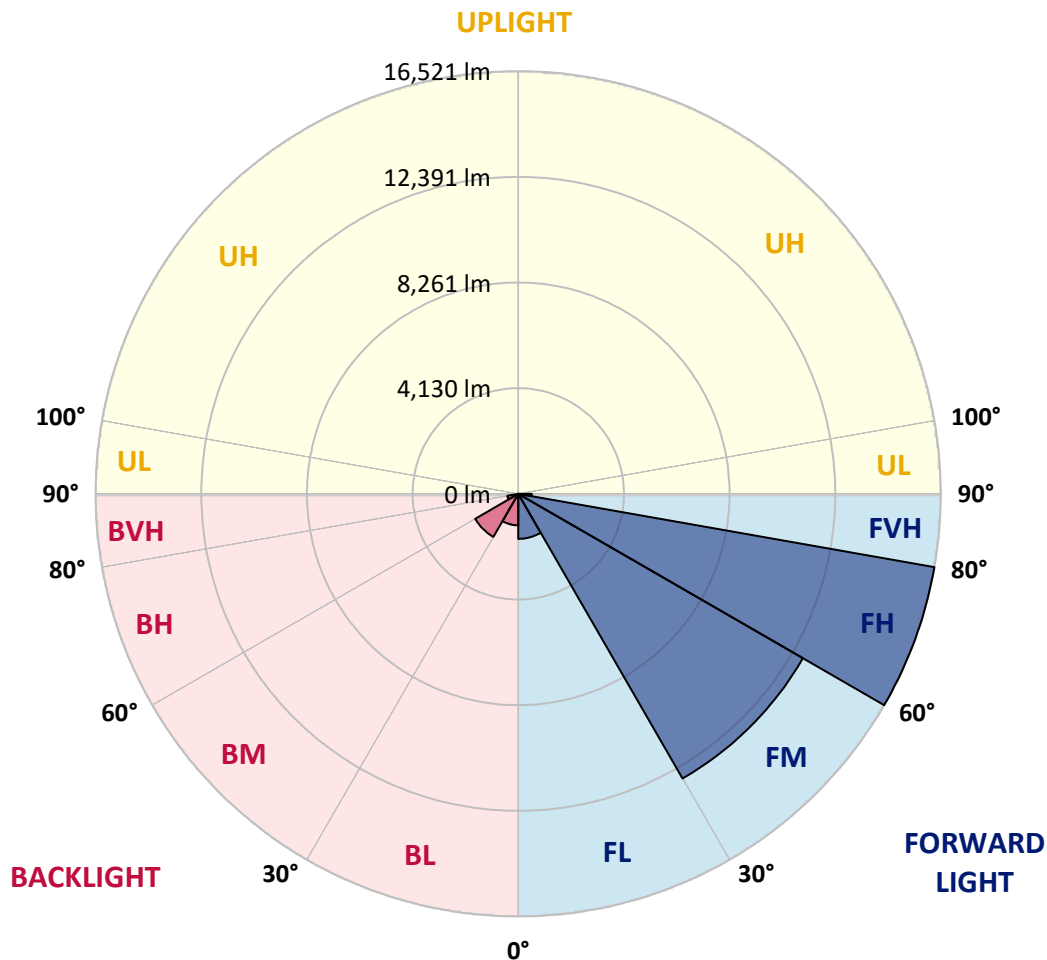


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.8	5.0			
FM (30°-60°)	12849.5	36.4			
FH (60°-80°)	16521.1	46.8			G5
FVH (80°-90°)	529.5	1.5			G4/750
BL (0°-30°)	1232.1	3.5	B3/2500		
BM (30°-60°)	1943.8	5.5	B2/2500		
BH (60°-80°)	431.8	1.2	B1/500		G1/500
BVH (80°-90°)	3.4	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°	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3
2.5°	4563.7	4553.5	4584.1	4635.1	4686.1	4665.7	4762.6	4864.6	4936.0	5032.8
5°	3987.5	4013.0	4043.6	4145.6	4211.9	4227.2	4405.6	4538.2	4757.5	4981.9
7.5°	3462.3	3492.9	3554.1	3666.3	3804.0	3839.6	4018.1	4283.3	4568.8	4864.6
10°	3079.9	3110.5	3176.8	3248.1	3431.7	3431.7	3676.5	4043.6	4415.8	4762.6
12.5°	2998.3	3013.6	3008.5	3064.6	3181.9	3207.4	3447.0	3849.8	4283.3	4726.9
15°	3095.2	3105.4	3054.4	3023.8	3125.8	3151.3	3375.6	3732.6	4196.6	4747.3
17.5°	3288.9	3253.2	3151.3	3105.4	3192.1	3207.4	3416.4	3727.5	4186.4	4803.4
20°	3401.1	3441.9	3263.4	3176.8	3299.1	3319.5	3543.9	3809.1	4237.4	4900.3
22.5°	3600.0	3620.4	3380.7	3324.6	3441.9	3441.9	3696.9	3972.2	4359.8	5058.3
25°	3880.4	3854.9	3574.5	3518.4	3630.6	3676.5	3931.4	4232.3	4548.4	5206.2
27.5°	4099.7	4115.0	3885.5	3737.7	3926.3	3956.9	4232.3	4512.7	4691.2	5328.6
30°	4426.0	4395.5	4150.7	3982.4	4217.0	4222.1	4487.2	4777.9	4966.6	5547.9
32.5°	4813.6	4752.4	4471.9	4232.3	4420.9	4466.8	4737.1	5160.3	5394.9	5960.9
35°	5634.5	5486.7	5027.7	4655.5	4670.8	4691.2	5109.3	5716.1	5986.4	6486.1
37.5°	6832.8	6771.6	6251.5	5542.8	5272.5	5211.3	5680.4	6450.4	6786.9	7179.6
40°	8020.9	7934.2	7449.8	6914.4	6424.9	6302.5	6537.1	7424.3	7730.3	8143.3
42.5°	9341.6	9188.6	8617.5	8184.1	7878.2	7745.6	7653.8	8648.1	8994.9	9275.3
45°	10677.6	10427.7	9601.7	9270.2	9107.0	9035.7	9025.5	10188.1	10397.1	10453.2
47.5°	11850.4	11580.1	10830.6	10458.3	10335.9	10315.5	10886.6	11962.6	11799.4	11651.5
50°	12752.9	12579.6	12039.0	11906.5	11814.7	11779.0	13115.0	13788.0	13033.4	12773.3
52.5°	14150.1	13762.6	13150.7	13196.5	13517.8	13522.9	15373.9	15521.8	14058.3	13543.3
55°	15266.8	15011.8	14512.1	14445.8	15292.3	15384.1	17398.2	16837.3	14629.4	14277.6
57.5°	16582.4	16465.1	16103.1	16113.3	17000.5	17194.3	19198.2	17948.9	15103.6	14751.8
60°	18484.3	18147.8	17959.1	18045.8	19091.1	19279.8	20942.1	18749.5	15333.1	15062.8
62.5°	20585.2	20192.6	19988.6	20432.2	21956.9	21987.4	22267.9	19458.3	15190.3	15144.4
65°	23114.4	22726.8	22563.7	23456.0	25266.2	25154.0	24129.1	19759.1	14736.5	14323.5
67.5°	25633.3	25398.8	25062.2	26484.9	28738.7	28738.7	26061.7	19646.9	13548.4	11498.5
70°	26826.5	26989.7	27525.1	29758.5	32150.0	31905.3	27968.7	18356.9	10086.1	6175.0
72°	26031.1	25862.8	27244.7	30829.3	34250.9	33848.0	27647.5	14593.7	5828.3	2707.6
72.5°	24664.5	24822.6	26724.5	30681.5	33858.2	34189.7	26862.2	13461.7	4793.2	2156.9
75°	15124.0	15394.3	19947.8	26051.5	29503.6	29131.3	20779.0	6414.7	1840.8	917.8
77.5°	5522.4	5746.7	9678.1	16393.7	20982.9	20748.4	12023.7	2279.3	999.4	683.3
80°	1438.0	1555.2	3288.9	7562.0	12339.9	12355.2	5032.8	912.7	678.2	560.9
82.5°	285.6	316.1	1009.6	2942.2	5767.1	5690.6	1590.9	489.5	509.9	458.9
85°	35.7	45.9	214.2	999.4	1866.3	1672.5	392.6	244.8	377.3	356.9
87.5°	5.1	5.1	51.0	229.5	392.6	382.4	81.6	76.5	168.3	219.3
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°
5160.3	0°	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3
5150.1	2.5°	5216.4	5236.8	5308.2	5369.4	5440.8	5461.2	5430.6	5481.6	5410.2	5451.0
5190.9	5°	5226.6	5343.9	5476.5	5563.2	5542.8	5491.8	5451.0	5313.3	5216.4	5180.7
5206.2	7.5°	5298.0	5430.6	5573.3	5573.3	5461.2	5196.0	4941.1	4696.3	4492.3	4390.4
5211.3	10°	5389.8	5527.5	5675.3	5481.6	5063.4	4579.0	4217.0	3758.1	3447.0	3283.8
5292.9	12.5°	5512.2	5705.9	5756.9	5308.2	4614.7	3895.7	3237.9	2600.6	2304.8	2070.2
5425.5	15°	5670.2	5858.9	5705.9	4930.9	4043.6	2983.0	2192.6	1585.8	1351.3	1228.9
5578.4	17.5°	5879.3	6022.1	5690.6	4584.1	3273.6	2039.7	1346.2	1070.8	1019.8	999.4
5792.6	20°	6124.1	6231.1	5542.8	4043.6	2432.3	1310.5	989.2	958.6	963.7	953.5
6047.6	22.5°	6399.4	6435.1	5374.5	3416.4	1647.0	968.8	922.9	928.0	933.1	922.9
6282.1	25°	6690.1	6593.2	5129.7	2682.1	1096.3	882.1	892.3	902.5	907.6	912.7
6567.7	27.5°	7016.4	6822.6	4788.1	1963.2	856.7	831.2	861.8	892.3	897.4	897.4
6996.0	30°	7495.7	7174.5	4456.6	1330.9	754.7	775.1	826.1	861.8	887.2	887.2
7658.9	32.5°	8102.5	7541.6	3992.6	907.6	698.6	708.8	749.6	821.0	877.1	882.1
8546.1	35°	8943.9	7985.2	3508.2	724.1	657.8	662.9	688.4	744.5	841.4	872.0
9698.5	37.5°	9831.1	8490.1	2906.5	652.7	627.2	622.1	637.4	683.3	770.0	846.5
10881.5	40°	10774.5	9020.4	2274.2	617.0	601.7	591.5	596.6	617.0	683.3	780.2
12039.0	42.5°	11661.7	9499.7	1708.2	581.3	576.2	566.0	566.0	571.1	606.8	673.1
13324.0	45°	12620.3	9892.3	1300.3	555.8	540.5	545.6	525.2	515.0	540.5	545.6
14756.9	47.5°	13517.8	10284.9	1040.2	525.2	509.9	509.9	484.4	464.0	464.0	418.1
16016.4	50°	14359.2	10499.1	831.2	484.4	479.3	474.2	438.5	402.8	372.2	316.1
17204.5	52.5°	15057.7	10488.9	642.5	433.4	448.7	433.4	377.3	326.3	280.5	229.5
17643.0	55°	15266.8	9999.4	484.4	356.9	382.4	362.0	300.8	255.0	204.0	163.2
17709.3	57.5°	15088.3	9254.9	367.1	275.4	295.7	275.4	229.5	188.7	142.8	112.2
17546.1	60°	14491.7	8383.0	285.6	214.2	224.4	209.1	173.4	142.8	102.0	71.4
16495.7	62.5°	13359.7	7291.8	219.3	168.3	163.2	163.2	132.6	107.1	71.4	40.8
13737.1	65°	10963.1	5685.5	168.3	117.3	117.3	117.3	102.0	76.5	45.9	20.4
8984.7	67.5°	6883.8	3309.3	137.7	91.8	86.7	86.7	71.4	51.0	25.5	5.1
3533.7	70°	2590.4	1213.6	107.1	71.4	66.3	66.3	51.0	30.6	15.3	0.0
1228.9	72°	892.3	464.0	86.7	51.0	51.0	45.9	35.7	25.5	10.2	0.0
928.0	72.5°	734.3	372.2	81.6	51.0	45.9	45.9	35.7	25.5	10.2	0.0
331.4	75°	265.2	153.0	56.1	35.7	30.6	30.6	25.5	15.3	5.1	0.0
168.3	77.5°	132.6	96.9	45.9	30.6	25.5	15.3	15.3	10.2	5.1	0.0
102.0	80°	81.6	61.2	25.5	20.4	15.3	10.2	5.1	5.1	0.0	0.0
71.4	82.5°	56.1	35.7	15.3	15.3	10.2	5.1	0.0	0.0	0.0	0.0
45.9	85°	35.7	15.3	10.2	10.2	5.1	0.0	0.0	0.0	0.0	0.0
25.5	87.5°	15.3	10.2	5.1	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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