

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: P575132

Luminaire Tested: **EPH-VN-06-735-U-T2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575132  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-735-U-T2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

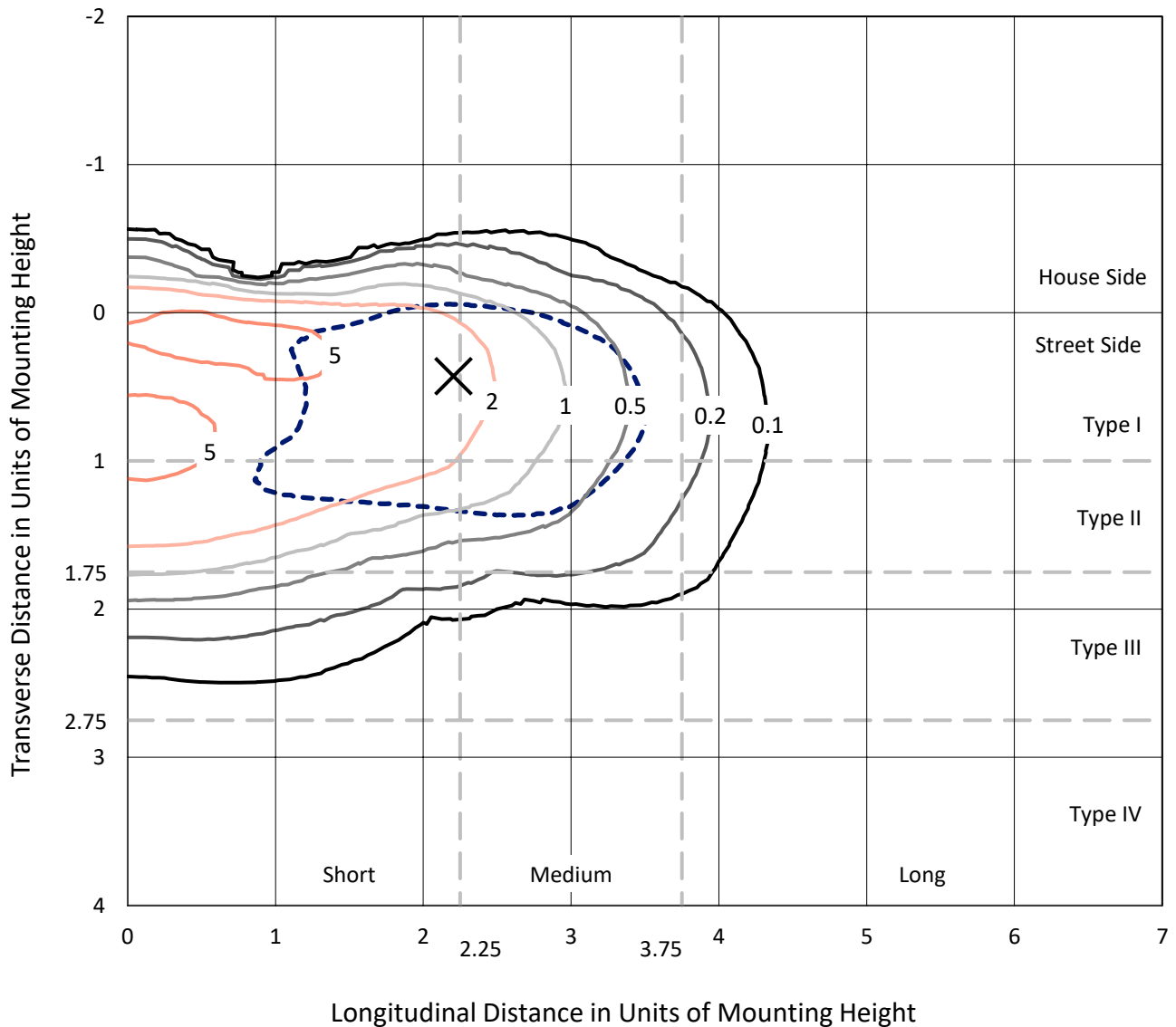
Lumens per Lamp: N/A  
Luminaire Lumens: 32475.1 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2  
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

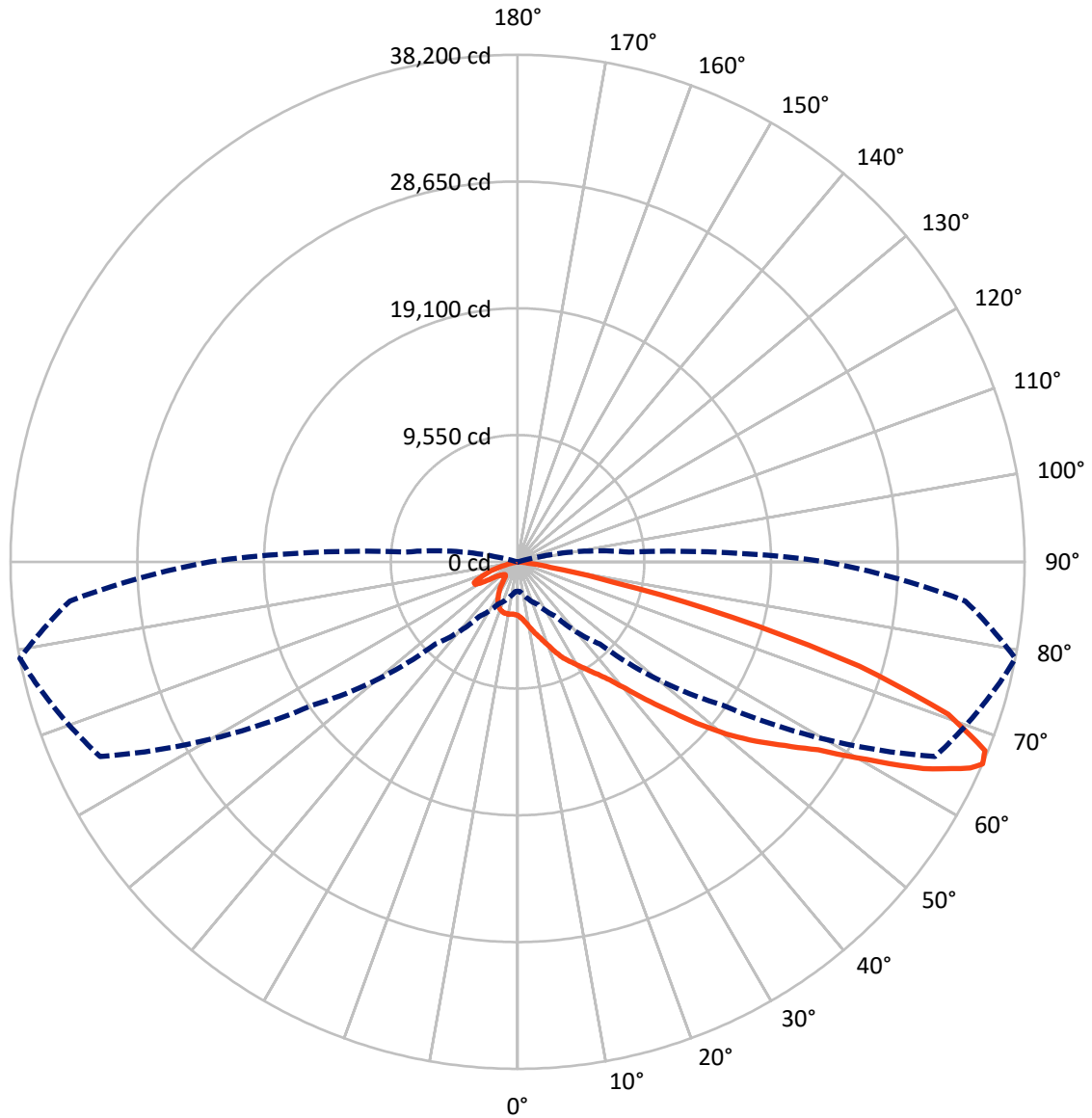
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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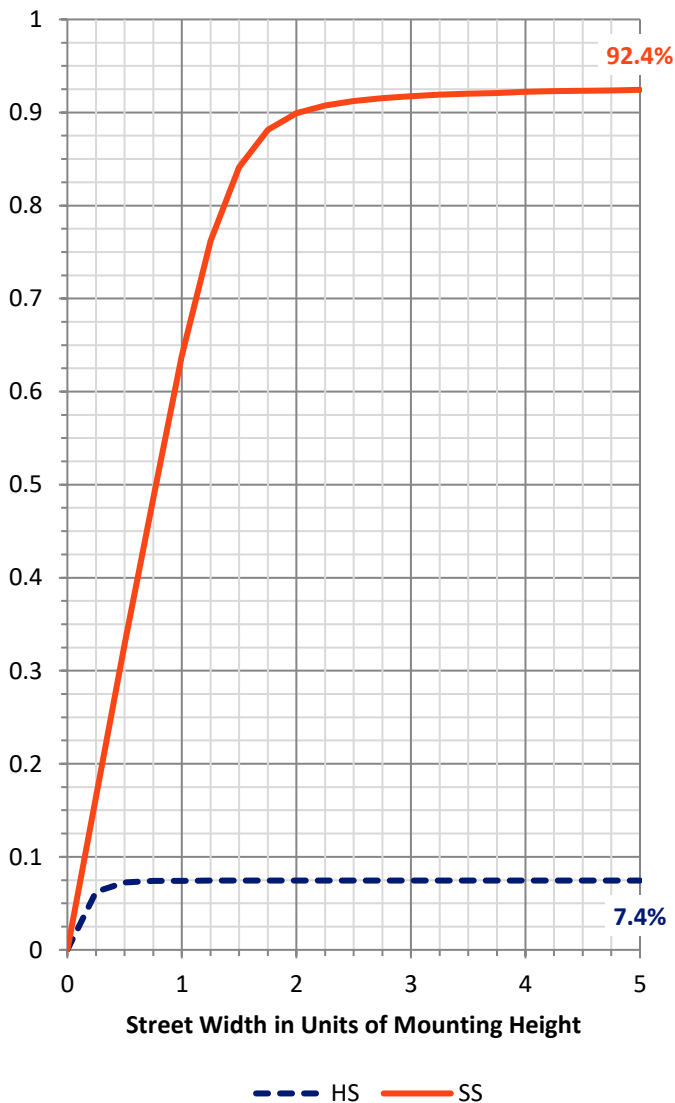
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2438.4	0.0	2438.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	30036.7	0.0	30036.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	32475.1	0.0	32475.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.1	1.2
10°-20°	1051.6	3.2
20°-30°	1747.0	5.4
30°-40°	3000.6	9.2
40°-50°	5436.0	16.7
50°-60°	8592.7	26.5
60°-70°	8743.8	26.9
70°-80°	3334.4	10.3
80°-90°	186.9	0.6
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°	32475.1	100.0
0°-180°	32475.1	100.0

**Coefficient of Utilization**

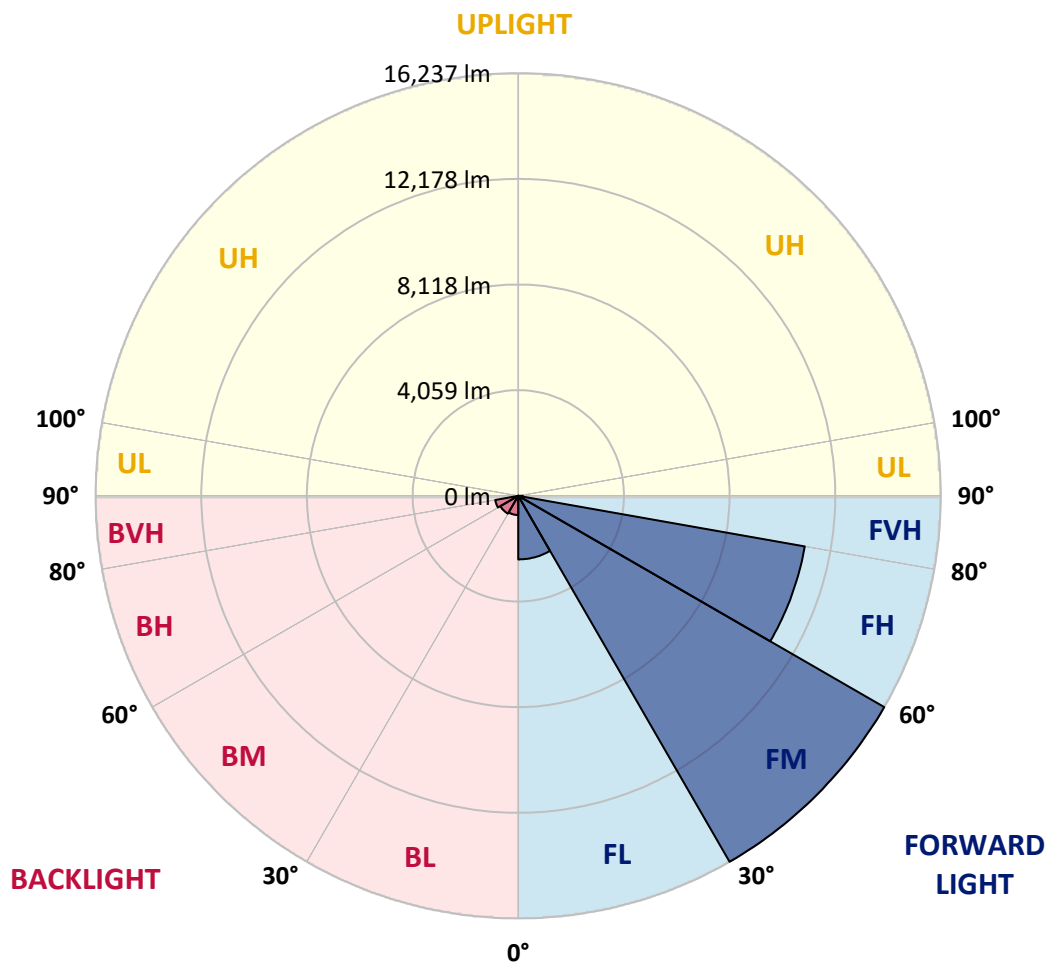


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2443.2	7.5			
FM (30°-60°)	16236.8	50.0			
FH (60°-80°)	11179.3	34.4			G4/12000
FVH (80°-90°)	177.4	0.5			G2/225
BL (0°-30°)	737.4	2.3	B2/1000		
BM (30°-60°)	792.5	2.4	B1/1000		
BH (60°-80°)	898.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.6	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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3
2.5°	4576.0	4571.0	4551.0	4515.9	4470.9	4455.8	4390.8	4300.6	4250.6	4195.5
5°	4891.4	4866.4	4926.5	4901.4	4911.4	4791.3	4711.2	4646.1	4455.8	4380.7
7.5°	4961.5	4986.5	4981.5	5021.6	5061.6	5106.7	5051.6	4956.5	4766.2	4656.1
10°	4961.5	4951.5	4991.5	5046.6	5161.8	5261.9	5412.1	5286.9	5141.7	5011.6
12.5°	4871.4	4856.4	4896.4	5011.6	5216.8	5422.1	5587.3	5707.5	5502.2	5397.1
15°	4596.0	4581.0	4746.2	4951.5	5221.8	5557.3	5902.7	6098.0	5957.8	5792.6
17.5°	4255.6	4275.6	4450.8	4791.3	5221.8	5622.4	6062.9	6488.5	6468.5	6258.2
20°	4140.4	4155.4	4330.7	4576.0	5066.6	5667.4	6313.3	6914.1	7034.2	6783.9
22.5°	4360.7	4345.7	4360.7	4510.9	4961.5	5627.4	6478.5	7399.7	7615.0	7419.7
25°	5111.7	5101.7	4976.5	4746.2	4901.4	5537.3	6563.6	7720.1	8215.8	8035.5
27.5°	6213.1	6173.1	5977.8	5497.2	5181.8	5592.3	6703.8	8030.5	8741.5	8536.2
30°	7394.7	7299.6	7044.2	6443.4	5907.7	5797.6	6783.9	8260.8	9327.2	9066.9
32.5°	8210.8	8335.9	8255.8	7645.0	6823.9	6273.2	6914.1	8551.2	9867.9	9697.7
35°	9472.4	9617.6	9282.2	8741.5	7915.4	7029.2	7189.4	8786.5	10699.0	10413.7
37.5°	11064.5	11174.7	10934.3	9908.0	9036.8	7960.4	7755.2	9277.2	11415.0	11279.8
40°	11865.6	12396.3	12055.8	11129.6	10193.4	9262.1	8691.4	9852.9	12661.6	12551.5
42.5°	12972.0	13237.4	13062.1	12376.2	11399.9	10654.0	9847.9	10974.4	14173.6	14173.6
45°	14143.5	14153.6	14143.5	13582.8	12716.7	12331.2	11410.0	12381.2	15800.7	15981.0
47.5°	15104.8	15405.2	15380.2	15044.7	14373.8	14228.7	12972.0	13983.3	17843.4	18158.8
50°	15600.5	15935.9	16036.0	16211.3	16181.2	16486.6	14679.2	15840.8	19605.7	20381.7
52.5°	15465.3	15490.3	16106.1	16797.0	17898.5	18754.6	16736.9	17948.5	21668.4	22434.4
55°	14358.8	14263.7	15530.4	16321.4	18599.4	20141.4	19585.7	20577.0	23275.5	24442.0
57.5°	11930.6	11955.7	13127.2	14734.3	18078.7	20692.1	22629.7	24011.5	25528.5	26705.0
60°	8235.8	8205.8	9517.5	11374.9	15019.7	19665.8	24382.0	28462.3	28542.4	30209.6
62.5°	4631.1	4641.1	5637.4	7224.5	10508.8	16071.1	24296.9	33188.5	32848.1	34310.0
65°	2623.4	2688.5	3374.4	4280.6	6293.3	10789.1	20897.4	35071.0	36167.4	37469.1
66°	2217.9	2263.0	2848.7	3534.6	5021.6	8751.5	18809.7	34705.5	37208.8	38200.1
67.5°	1717.3	1777.3	2268.0	2803.7	3684.8	6057.9	15139.9	32888.1	37399.0	37979.8
70°	1176.5	1216.6	1592.1	2127.8	2518.3	3099.1	9051.9	27190.7	33934.5	34425.1
72.5°	826.1	846.1	1116.5	1612.1	1937.5	1772.3	4490.9	19345.4	25969.1	26925.3
75°	595.8	615.8	766.0	1156.5	1512.0	1161.5	2057.7	12356.2	15925.9	16676.9
77.5°	430.6	455.6	520.7	746.0	1096.4	816.1	1011.3	6453.5	7509.8	7379.7
80°	260.3	285.4	385.5	480.6	801.1	575.8	555.7	2693.5	2663.5	2528.3
82.5°	120.2	140.2	205.3	325.4	560.7	400.5	265.3	961.3	841.1	771.0
85°	35.0	45.1	120.2	245.3	285.4	195.3	160.2	330.4	345.5	295.4
87.5°	0.0	5.0	55.1	60.1	85.1	65.1	60.1	85.1	160.2	130.2
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°
4040.3	0°	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3
4170.5	2.5°	4080.4	4045.3	3960.2	3830.0	3714.9	3654.8	3569.7	3494.6	3454.5	3449.5
4260.6	5°	4180.5	4085.4	3880.1	3644.8	3469.5	3279.3	3149.1	3054.0	2963.9	2878.8
4525.9	7.5°	4315.7	4165.5	3830.0	3524.6	3144.1	2898.8	2668.5	2533.3	2453.2	2378.1
4776.3	10°	4525.9	4335.7	3795.0	3244.3	2808.7	2448.2	2212.9	2017.6	1907.5	1777.3
5091.7	12.5°	4811.3	4470.9	3664.8	2988.9	2428.2	2047.7	1712.2	1396.8	1221.6	1086.4
5452.1	15°	5096.7	4651.1	3544.6	2678.5	2082.7	1582.1	1091.4	876.1	826.1	796.0
5902.7	17.5°	5377.1	4796.3	3359.4	2363.1	1687.2	1006.3	796.0	751.0	726.0	695.9
6318.3	20°	5717.5	4891.4	3129.1	2072.7	1161.5	746.0	680.9	650.9	610.8	570.7
6864.0	22.5°	6047.9	4971.5	2863.8	1702.2	781.0	645.8	570.7	530.7	495.6	455.6
7304.6	25°	6378.4	4996.6	2518.3	1221.6	630.8	515.7	445.6	390.5	355.5	320.4
7700.1	27.5°	6603.7	4841.3	2192.9	781.0	505.7	390.5	310.4	265.3	235.3	200.3
8045.5	30°	6733.8	4556.0	1842.4	550.7	380.5	265.3	185.2	140.2	110.1	85.1
8636.3	32.5°	6864.0	4325.7	1446.9	420.6	250.3	140.2	70.1	25.0	0.0	0.0
9187.0	35°	7124.3	4065.3	971.3	235.3	85.1	5.0	0.0	0.0	0.0	0.0
9893.0	37.5°	7289.6	3704.9	445.6	35.0	0.0	0.0	0.0	0.0	0.0	0.0
10869.3	40°	7705.1	3524.6	110.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12191.0	42.5°	8381.0	3399.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13773.1	45°	9122.0	3349.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15315.1	47.5°	10108.3	3484.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17297.7	50°	11149.6	3850.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18829.7	52.5°	12291.1	4195.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20411.8	55°	13287.4	4611.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22634.7	57.5°	15119.8	5592.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26624.9	60°	18409.1	7519.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31160.9	62.5°	22114.0	8951.7	55.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33914.5	65°	23470.8	8916.7	95.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
33859.4	66°	23230.5	8426.0	95.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
32903.1	67.5°	21983.8	7484.8	85.1	10.0	0.0	0.0	0.0	0.0	0.0	0.0
28597.5	70°	18879.8	6183.1	85.1	15.0	0.0	0.0	0.0	0.0	0.0	0.0
22244.2	72.5°	14393.9	4816.3	80.1	20.0	5.0	0.0	0.0	0.0	0.0	0.0
13397.6	75°	8686.4	2563.4	65.1	25.0	10.0	0.0	0.0	0.0	0.0	0.0
5762.6	77.5°	3459.5	901.2	50.1	20.0	10.0	0.0	0.0	0.0	0.0	0.0
1812.4	80°	936.2	270.4	30.0	20.0	15.0	5.0	0.0	0.0	0.0	0.0
510.7	82.5°	245.3	100.1	25.0	20.0	10.0	5.0	0.0	0.0	0.0	0.0
170.2	85°	95.1	40.1	20.0	15.0	15.0	10.0	5.0	0.0	0.0	0.0
55.1	87.5°	30.0	15.0	15.0	10.0	10.0	5.0	5.0	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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