

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: P575126

Luminaire Tested: **EPH-VN-06-730-U-T2-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575126  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-730-U-T2-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

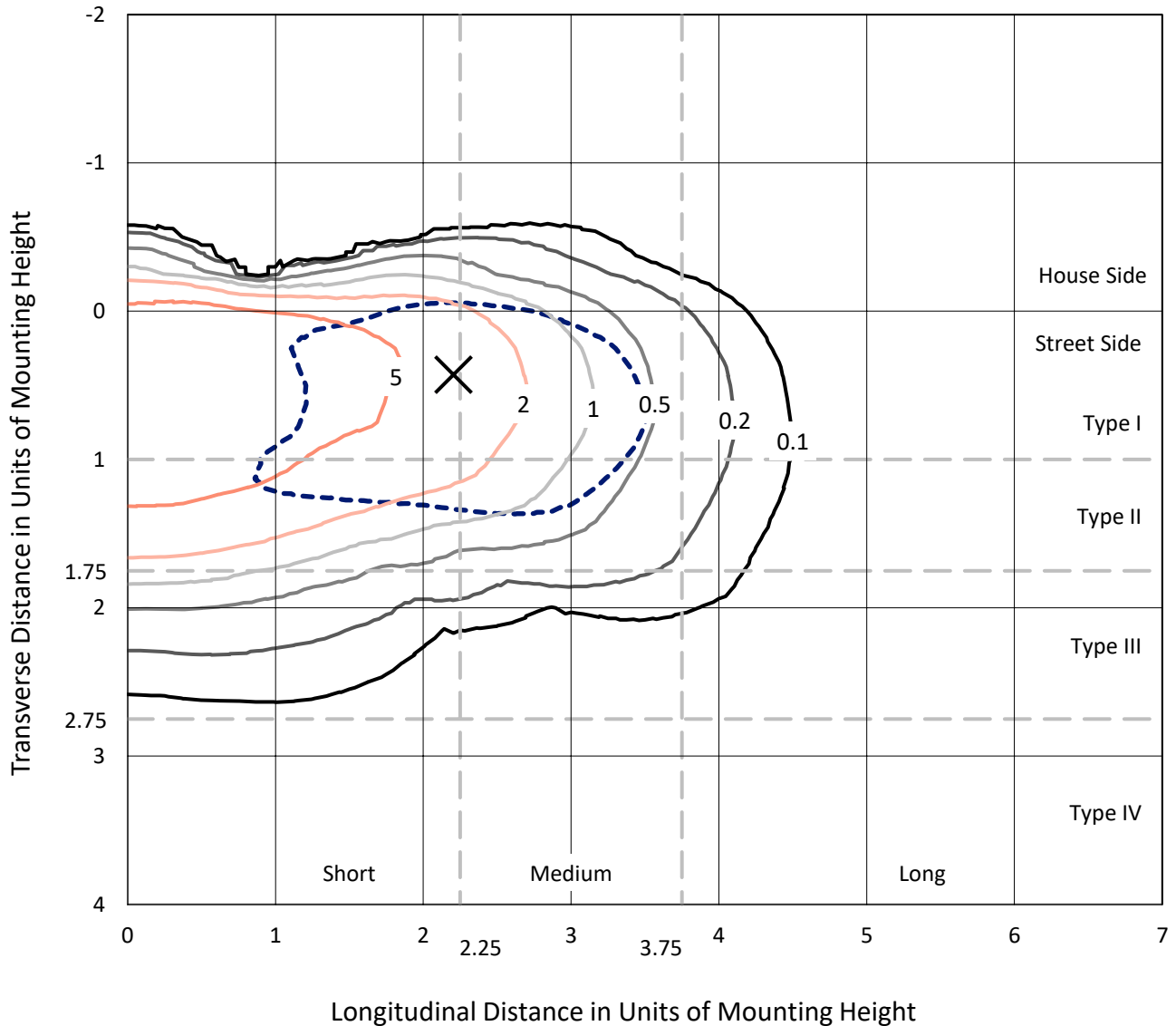
Lumens per Lamp: N/A  
Luminaire Lumens: 29982.6 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

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

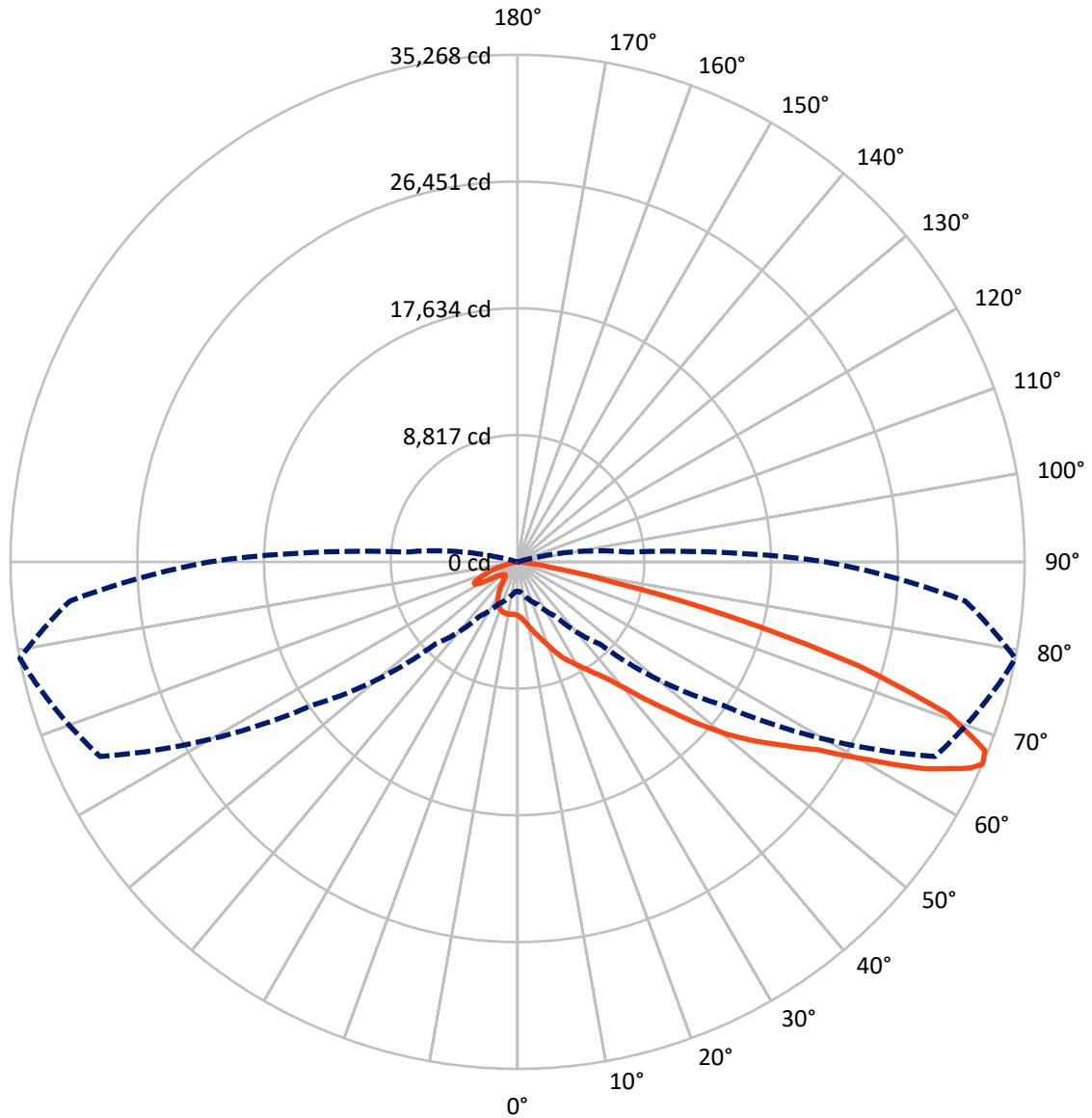
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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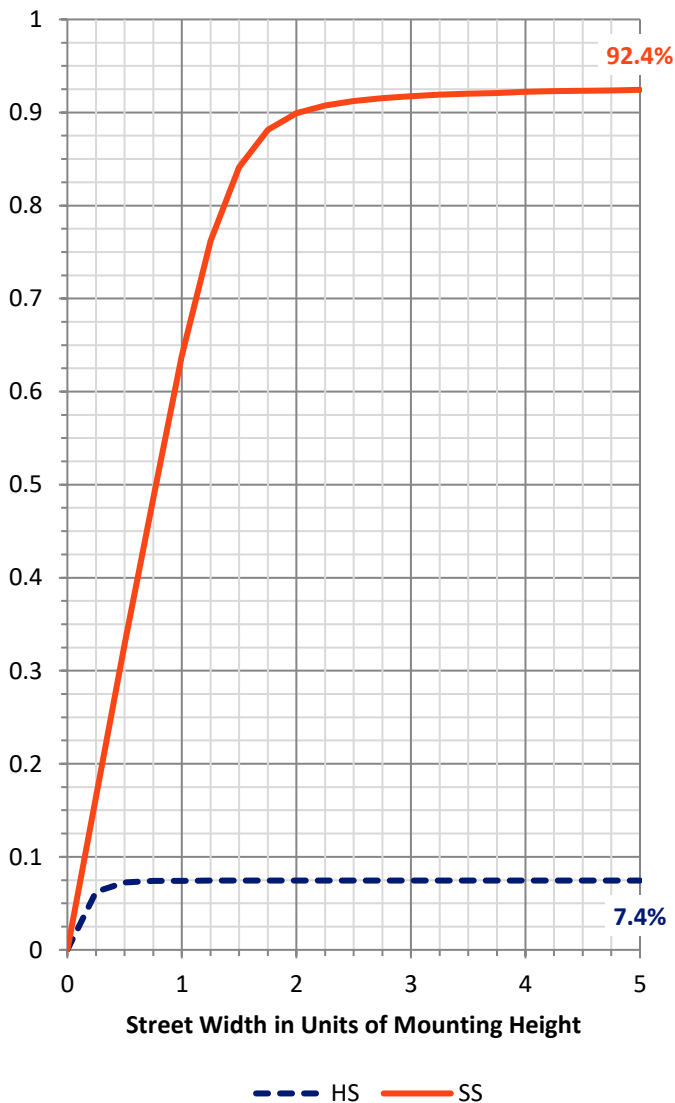
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2251.3	0.0	2251.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	27731.3	0.0	27731.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	29982.6	0.0	29982.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.8	1.2
10°-20°	970.9	3.2
20°-30°	1612.9	5.4
30°-40°	2770.3	9.2
40°-50°	5018.8	16.7
50°-60°	7933.2	26.5
60°-70°	8072.7	26.9
70°-80°	3078.5	10.3
80°-90°	172.6	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°	29982.6	100.0
0°-180°	29982.6	100.0

**Coefficient of Utilization**

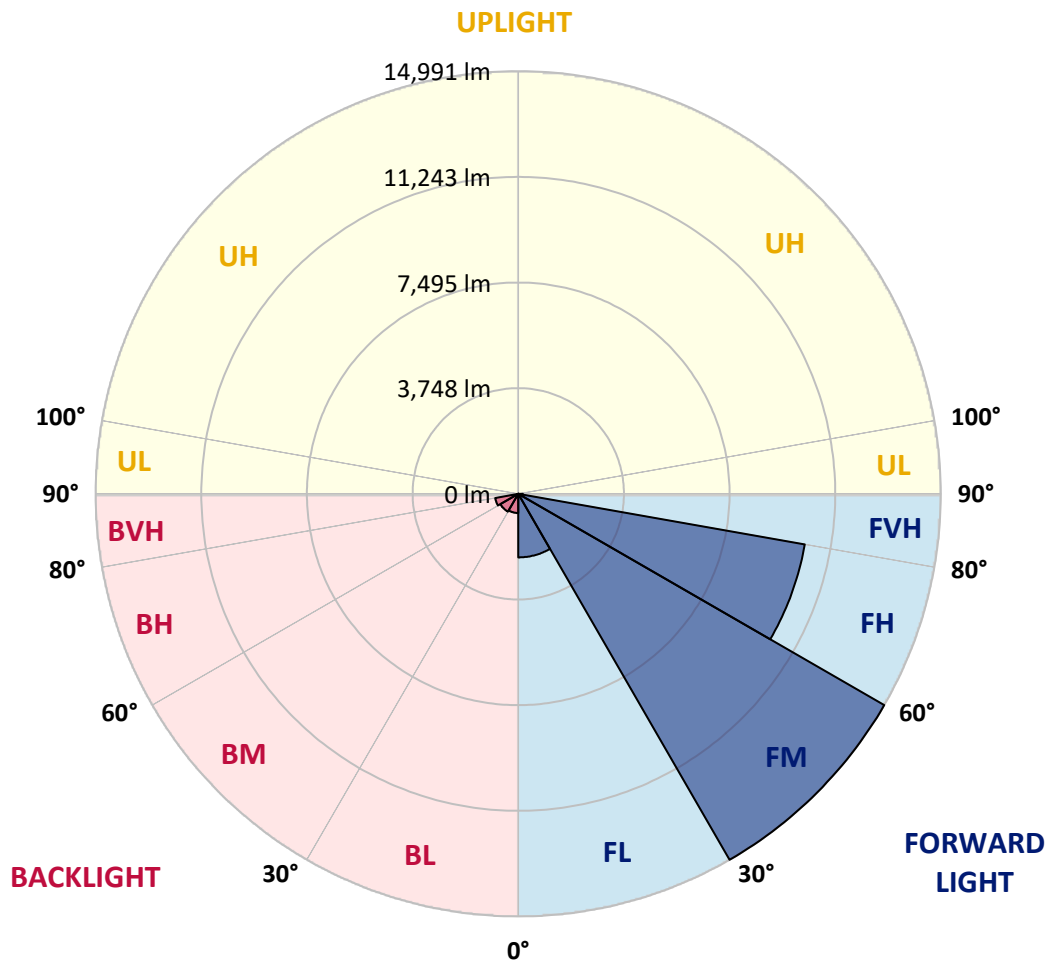


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2255.7	7.5			
FM (30°-60°)	14990.6	50.0			
FH (60°-80°)	10321.3	34.4			G4/12000
FVH (80°-90°)	163.8	0.5			G2/225
BL (0°-30°)	680.8	2.3	B2/1000		
BM (30°-60°)	731.7	2.4	B1/1000		
BH (60°-80°)	829.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2
2.5°	4224.8	4220.2	4201.7	4169.3	4127.7	4113.9	4053.8	3970.6	3924.3	3873.5
5°	4516.0	4492.9	4548.3	4525.2	4534.5	4423.5	4349.6	4289.5	4113.9	4044.5
7.5°	4580.7	4603.8	4599.2	4636.2	4673.1	4714.7	4663.9	4576.1	4400.4	4298.7
10°	4580.7	4571.5	4608.4	4659.3	4765.6	4858.0	4996.7	4881.2	4747.1	4626.9
12.5°	4497.5	4483.6	4520.6	4626.9	4816.4	5006.0	5158.5	5269.4	5079.9	4982.8
15°	4243.3	4229.4	4381.9	4571.5	4821.1	5130.8	5449.7	5630.0	5500.5	5348.0
17.5°	3929.0	3947.4	4109.2	4423.5	4821.1	5190.8	5597.6	5990.5	5972.0	5777.9
20°	3822.6	3836.5	3998.3	4224.8	4677.8	5232.4	5828.7	6383.4	6494.3	6263.2
22.5°	4026.0	4012.2	4026.0	4164.7	4580.7	5195.5	5981.3	6831.8	7030.5	6850.3
25°	4719.4	4710.1	4594.6	4381.9	4525.2	5112.3	6059.8	7127.6	7585.2	7418.8
27.5°	5736.3	5699.3	5519.0	5075.3	4784.1	5163.1	6189.3	7414.2	8070.5	7881.0
30°	6827.1	6739.3	6503.6	5948.9	5454.3	5352.6	6263.2	7626.8	8611.4	8371.0
32.5°	7580.6	7696.1	7622.2	7058.3	6300.2	5791.7	6383.4	7894.9	9110.6	8953.4
35°	8745.4	8879.4	8569.8	8070.5	7307.9	6489.7	6637.6	8112.1	9877.9	9614.4
37.5°	10215.3	10317.0	10095.1	9147.5	8343.3	7349.5	7159.9	8565.1	10538.9	10414.0
40°	10954.9	11444.8	11130.5	10275.4	9411.0	8551.3	8024.3	9096.7	11689.8	11588.1
42.5°	11976.4	12221.4	12059.6	11426.3	10525.0	9836.3	9092.1	10132.1	13085.7	13085.7
45°	13058.0	13067.3	13058.0	12540.3	11740.7	11384.7	10534.2	11431.0	14588.0	14754.4
47.5°	13945.5	14222.8	14199.7	13890.0	13270.6	13136.6	11976.4	12910.1	16473.9	16765.1
50°	14403.1	14712.8	14805.2	14967.0	14939.3	15221.2	13552.6	14625.0	18100.9	18817.4
52.5°	14278.3	14301.4	14870.0	15507.8	16524.7	17315.1	15452.4	16571.0	20005.3	20712.5
55°	13256.8	13168.9	14338.4	15068.7	17171.9	18595.5	18082.5	18997.7	21489.1	22566.1
57.5°	11014.9	11038.1	12119.7	13603.4	16691.1	19104.0	20892.8	22168.6	23569.1	24655.4
60°	7603.7	7576.0	8787.0	10501.9	13866.9	18156.4	22510.6	26277.8	26351.8	27891.0
62.5°	4275.6	4284.9	5204.7	6670.0	9702.2	14837.6	22432.0	30641.2	30326.9	31676.6
65°	2422.1	2482.2	3115.4	3952.1	5810.2	9961.1	19293.5	32379.2	33391.5	34593.3
66°	2047.7	2089.3	2630.1	3263.3	4636.2	8079.8	17366.0	32041.8	34353.0	35268.2
67.5°	1585.5	1640.9	2093.9	2588.5	3402.0	5593.0	13977.8	30363.9	34528.6	35064.8
70°	1086.2	1123.2	1469.9	1964.5	2325.0	2861.2	8357.1	25103.7	31330.0	31783.0
72.5°	762.7	781.2	1030.8	1488.4	1788.8	1636.3	4146.2	17860.6	23975.9	24858.7
75°	550.1	568.5	707.2	1067.8	1395.9	1072.4	1899.8	11407.8	14703.5	15396.9
77.5°	397.5	420.6	480.7	688.7	1012.3	753.4	933.7	5958.1	6933.5	6813.3
80°	240.4	263.5	355.9	443.7	739.6	531.6	513.1	2486.8	2459.1	2334.3
82.5°	110.9	129.4	189.5	300.4	517.7	369.8	245.0	887.5	776.5	711.8
85°	32.4	41.6	110.9	226.5	263.5	180.3	147.9	305.1	318.9	272.7
87.5°	0.0	4.6	50.8	55.5	78.6	60.1	55.5	78.6	147.9	120.2
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°
3730.2	0°	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2
3850.4	2.5°	3767.2	3734.8	3656.2	3536.1	3429.7	3374.3	3295.7	3226.4	3189.4	3184.8
3933.6	5°	3859.6	3771.8	3582.3	3365.0	3203.3	3027.6	2907.4	2819.6	2736.4	2657.8
4178.6	7.5°	3984.4	3845.8	3536.1	3254.1	2902.8	2676.3	2463.7	2338.9	2264.9	2195.6
4409.7	10°	4178.6	4002.9	3503.7	2995.3	2593.1	2260.3	2043.1	1862.8	1761.1	1640.9
4700.9	12.5°	4442.0	4127.7	3383.5	2759.5	2241.8	1890.5	1580.8	1289.6	1127.8	1003.0
5033.7	15°	4705.5	4294.1	3272.6	2472.9	1922.9	1460.6	1007.7	808.9	762.7	734.9
5449.7	17.5°	4964.4	4428.2	3101.6	2181.7	1557.7	929.1	734.9	693.3	670.2	642.5
5833.3	20°	5278.7	4516.0	2888.9	1913.6	1072.4	688.7	628.6	600.9	563.9	526.9
6337.2	22.5°	5583.7	4589.9	2644.0	1571.6	721.1	596.3	526.9	490.0	457.6	420.6
6743.9	25°	5888.8	4613.1	2325.0	1127.8	582.4	476.1	411.4	360.5	328.2	295.8
7109.1	27.5°	6096.8	4469.8	2024.6	721.1	466.9	360.5	286.6	245.0	217.2	184.9
7428.0	30°	6217.0	4206.3	1701.0	508.5	351.3	245.0	171.0	129.4	101.7	78.6
7973.5	32.5°	6337.2	3993.7	1335.8	388.3	231.1	129.4	64.7	23.1	0.0	0.0
8481.9	35°	6577.5	3753.3	896.7	217.2	78.6	4.6	0.0	0.0	0.0	0.0
9133.7	37.5°	6730.1	3420.5	411.4	32.4	0.0	0.0	0.0	0.0	0.0	0.0
10035.0	40°	7113.7	3254.1	101.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11255.3	42.5°	7737.7	3138.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12716.0	45°	8421.8	3092.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14139.6	47.5°	9332.4	3217.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15970.1	50°	10293.9	3554.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17384.5	52.5°	11347.8	3873.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18845.1	55°	12267.6	4257.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20897.4	57.5°	13959.4	5163.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24581.4	60°	16996.2	6942.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28769.2	62.5°	20416.7	8264.7	50.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31311.5	65°	21669.4	8232.3	87.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0
31260.6	66°	21447.5	7779.3	87.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0
30377.8	67.5°	20296.5	6910.3	78.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0
26402.6	70°	17430.7	5708.5	78.6	13.9	0.0	0.0	0.0	0.0	0.0	0.0
20536.9	72.5°	13289.1	4446.7	74.0	18.5	4.6	0.0	0.0	0.0	0.0	0.0
12369.3	75°	8019.7	2366.6	60.1	23.1	9.2	0.0	0.0	0.0	0.0	0.0
5320.3	77.5°	3194.0	832.0	46.2	18.5	9.2	0.0	0.0	0.0	0.0	0.0
1673.3	80°	864.4	249.6	27.7	18.5	13.9	4.6	0.0	0.0	0.0	0.0
471.5	82.5°	226.5	92.4	23.1	18.5	9.2	4.6	0.0	0.0	0.0	0.0
157.2	85°	87.8	37.0	18.5	13.9	13.9	9.2	4.6	0.0	0.0	0.0
50.8	87.5°	27.7	13.9	13.9	9.2	9.2	4.6	4.6	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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