

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: P575192

Luminaire Tested: **EPH-VN-08-760-U-T2R-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575192  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-760-U-T2R-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield  
Light Source: (128) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

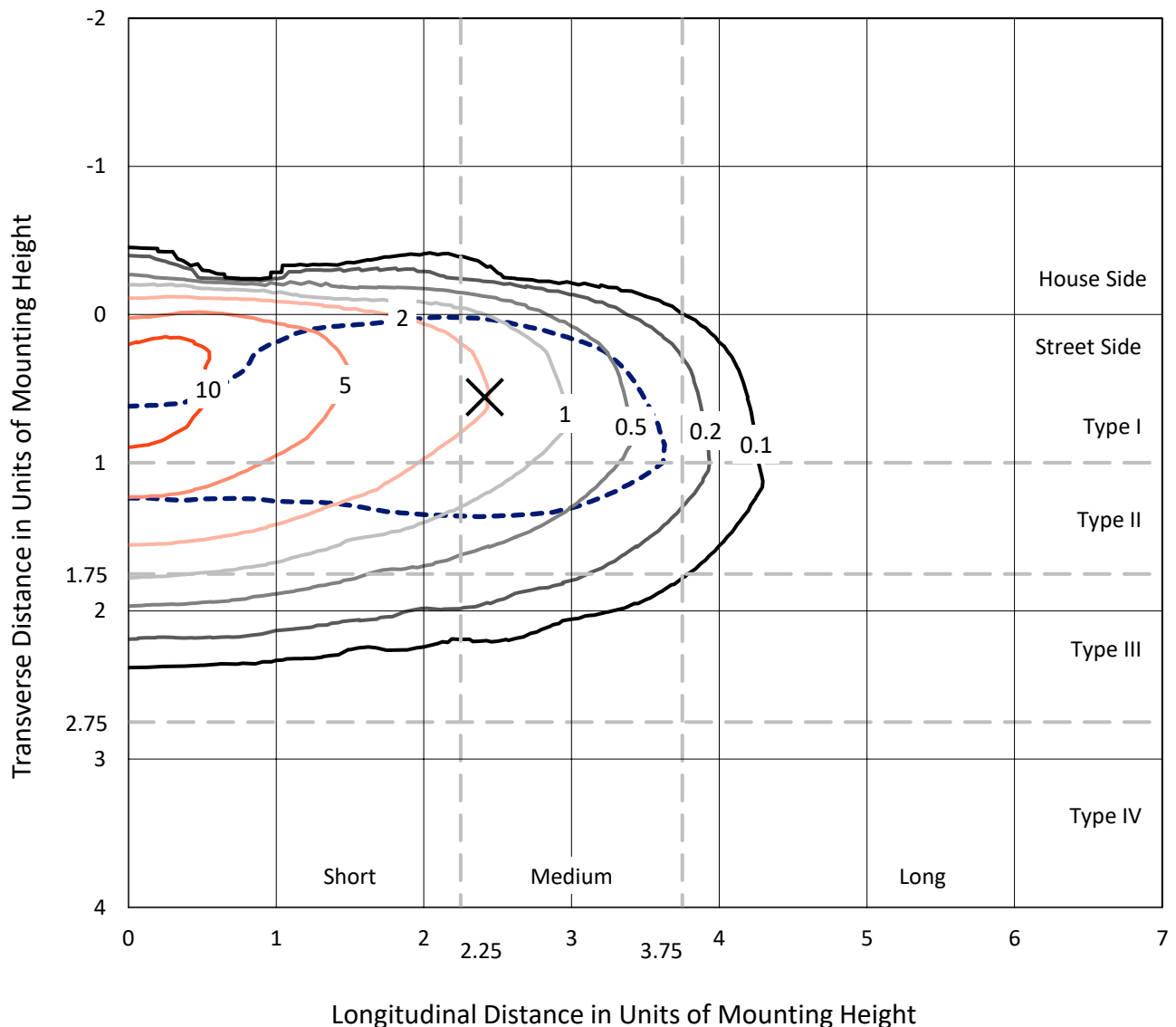
Lumens per Lamp: N/A  
Luminaire Lumens: 38740.1 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3  
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

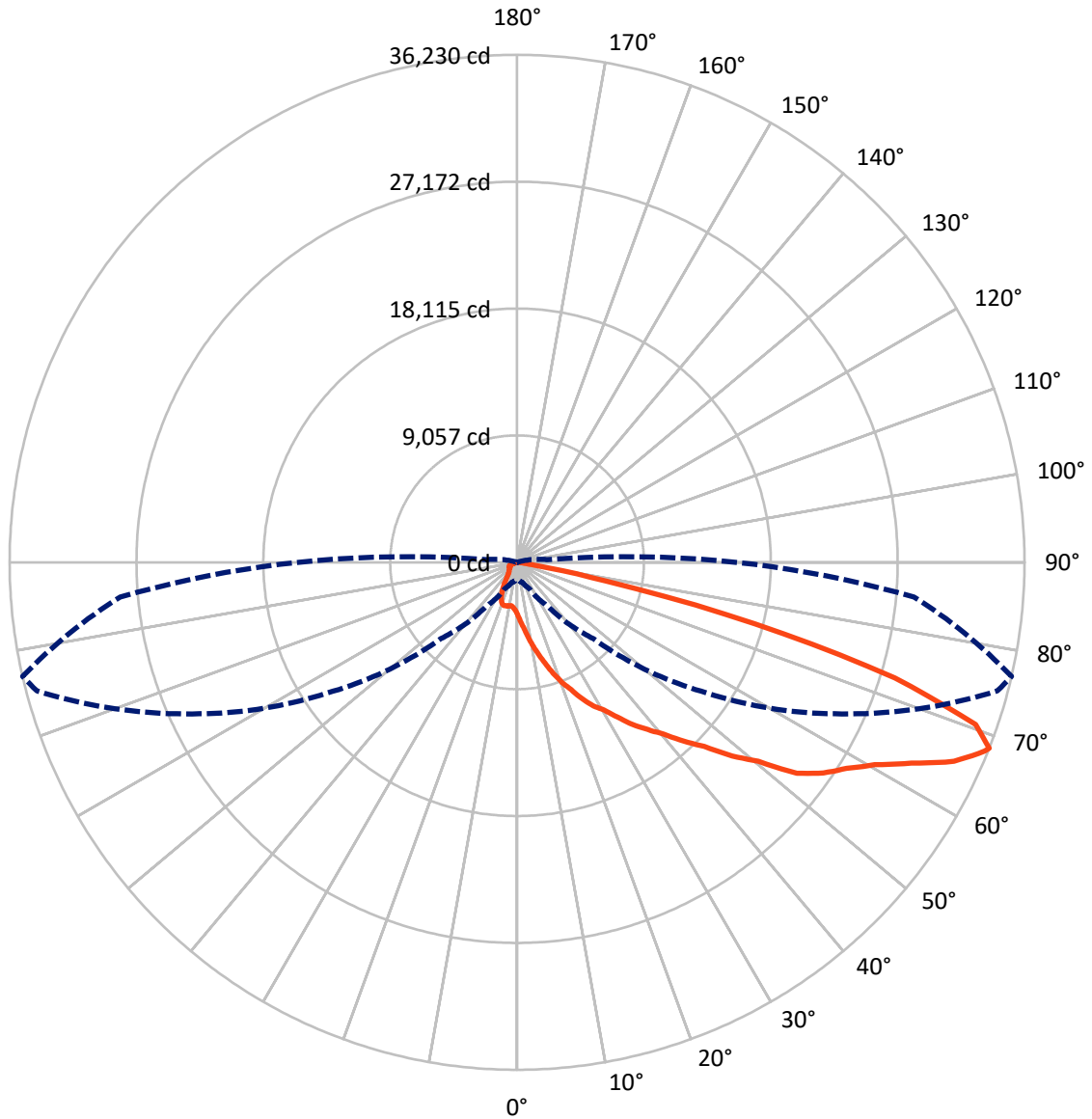
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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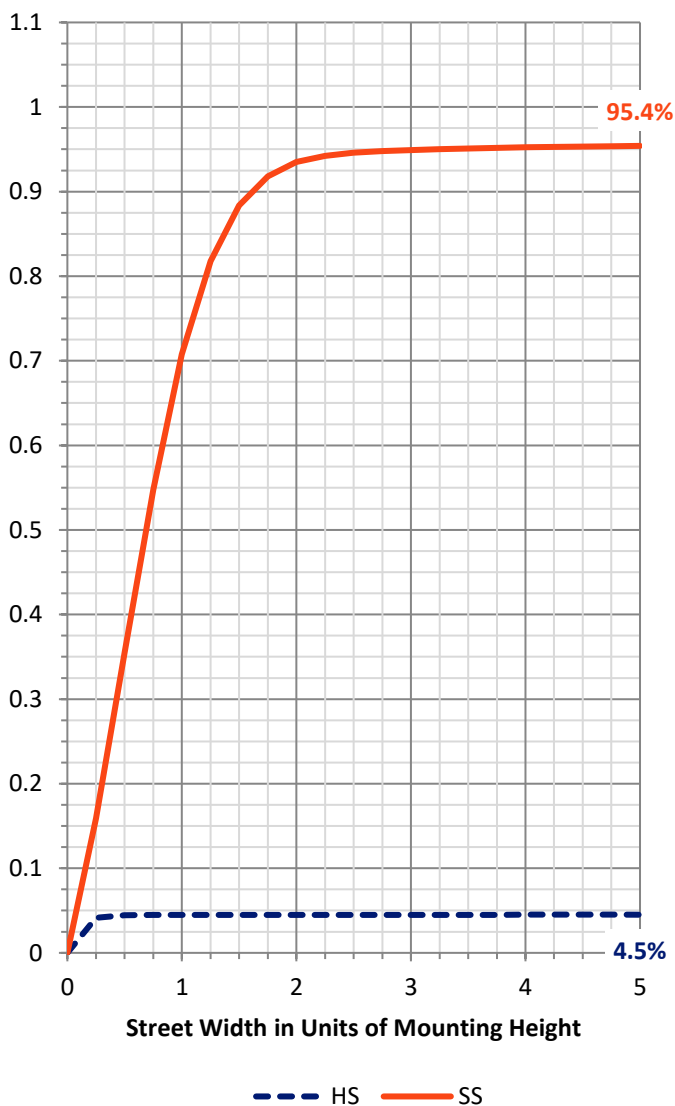
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1756.8	0.0	1756.8
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	36983.3	0.0	36983.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	38740.1	0.0	38740.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.4	1.1
10°-20°	1598.3	4.1
20°-30°	3097.5	8.0
30°-40°	5400.0	13.9
40°-50°	7908.7	20.4
50°-60°	9291.5	24.0
60°-70°	7845.9	20.3
70°-80°	3041.2	7.9
80°-90°	123.7	0.3
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°	38740.1	100.0
0°-180°	38740.1	100.0

**Coefficient of Utilization**

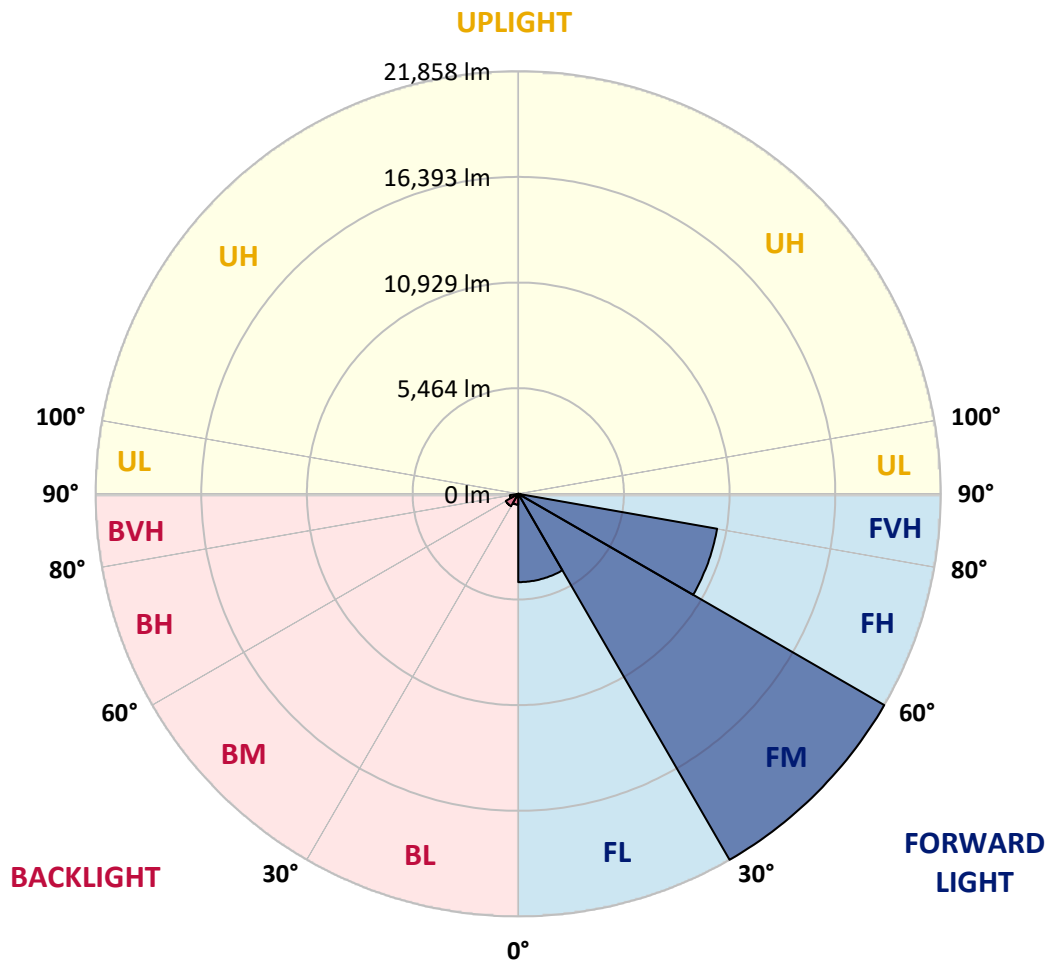


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4567.8	11.8			
FM (30°-60°)	21857.9	56.4			
FH (60°-80°)	10443.5	27.0			G4/12000
FVH (80°-90°)	114.1	0.3			G2/225
BL (0°-30°)	561.3	1.4	B2/1000		
BM (30°-60°)	742.4	1.9	B1/1000		
BH (60°-80°)	443.6	1.1	B1/500		G1/500
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4
2.5°	5636.2	5529.4	5417.4	5385.3	5177.2	4942.3	4723.5	4510.0	4152.4	4157.8
5°	7264.1	7130.6	7039.9	7018.6	6693.0	6287.3	5956.4	5353.3	4760.9	4627.4
7.5°	8603.7	8561.0	8427.6	8315.5	8075.3	7579.0	7189.3	6324.7	5422.7	5273.3
10°	9415.0	9479.0	9537.8	9393.7	9206.8	8849.2	8315.5	7381.5	6175.3	5988.5
12.5°	10279.6	10172.9	10210.3	10327.7	10082.2	10002.1	9340.3	8470.3	7055.9	6698.3
15°	10503.8	10546.5	10637.2	10978.8	11144.3	10914.8	10343.7	9351.0	7968.6	7472.2
17.5°	10653.3	10631.9	10744.0	11256.4	11507.2	11726.1	11368.5	10333.0	8763.8	8320.9
20°	10840.1	10722.6	10968.2	11293.7	11875.5	12334.5	12318.5	11320.4	9596.5	9126.8
22.5°	11533.9	11443.2	11640.7	11672.7	12078.3	12718.8	12873.6	12126.4	10450.4	9874.0
25°	12814.9	12980.3	12745.5	12542.7	12665.4	13087.1	13199.1	12841.5	11309.7	10781.4
27.5°	14688.3	14666.9	14202.6	13941.0	13647.5	13594.1	13674.2	13508.7	11987.6	11608.6
30°	16700.4	16524.3	16097.3	15467.5	14821.7	14421.4	14309.3	14138.5	12782.8	12233.1
32.5°	18301.6	18397.7	17922.7	17100.7	16027.9	15488.9	14949.8	14763.0	13658.2	13172.5
35°	19774.7	19646.6	19267.7	18573.8	17613.1	16743.1	15899.8	15499.5	14709.6	14229.2
37.5°	20863.5	21023.6	20303.1	19641.3	18685.9	17965.4	17138.1	16262.8	15793.1	15152.6
40°	21893.6	21642.8	21157.1	20548.6	19662.6	19112.9	18568.5	17202.1	16945.9	16118.7
42.5°	21712.1	21728.2	21461.3	20970.3	20329.8	20014.9	19828.1	18344.3	17992.0	17463.7
45°	20970.3	21034.3	21125.0	20884.9	20938.2	20623.3	21125.0	19657.3	19310.4	18749.9
47.5°	20153.7	20260.4	20239.0	20676.7	21173.1	21279.8	22534.1	21114.4	20964.9	20655.4
50°	18798.0	18840.7	19251.6	20046.9	20724.7	21840.2	23590.9	22704.9	22934.4	22325.9
52.5°	16481.6	16636.4	17693.2	18830.0	20196.4	22123.1	24306.1	25069.3	25651.1	25026.6
55°	13551.4	13764.9	14805.7	16935.3	18936.7	21696.1	24957.2	26318.2	27497.8	26553.1
57.5°	10904.1	10925.5	11859.5	14058.5	17148.8	20858.2	25288.1	26926.7	28511.9	27754.0
60°	8310.2	8224.8	9062.7	10968.2	14138.5	18798.0	24460.9	27236.3	29776.8	29339.1
62.5°	5348.0	5214.5	6127.2	7984.6	11042.9	15366.1	22806.3	27241.6	31751.6	31586.2
65°	2647.3	2556.6	3341.2	4894.3	7643.0	11752.7	20447.2	27140.2	34164.1	34270.8
67.5°	1398.4	1430.4	1681.3	2481.8	4408.6	8304.8	16892.6	25950.0	35397.0	35994.8
68°	1286.3	1297.0	1494.4	2065.5	3826.8	7701.7	16049.3	25603.0	35493.1	36229.6
70°	1046.1	1062.1	1131.5	1297.0	2070.9	5011.7	12382.5	22656.8	34046.6	34719.1
72.5°	832.6	880.7	923.4	992.7	1216.9	2631.3	7701.7	17655.8	28127.6	28202.3
75°	635.1	672.5	757.9	816.6	950.0	1446.4	3666.7	10765.3	18456.4	17549.0
77.5°	491.0	523.1	560.4	640.5	795.3	976.7	1120.8	4568.7	7840.5	6452.8
80°	293.6	314.9	437.7	501.7	693.8	661.8	443.0	1270.3	1590.5	1254.3
82.5°	170.8	186.8	250.9	384.3	485.7	357.6	261.5	395.0	389.6	341.6
85°	5.3	10.7	138.8	229.5	170.8	96.1	160.1	165.5	138.8	128.1
87.5°	0.0	5.3	37.4	32.0	37.4	21.3	32.0	42.7	53.4	48.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3709.4	0°	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4	3709.4
3912.2	2.5°	3746.8	3629.4	3367.8	3170.4	2956.9	2828.8	2700.7	2620.6	2577.9	2551.2
4179.1	5°	3842.9	3597.3	3175.7	2802.1	2556.6	2391.1	2225.7	2140.3	2060.2	2017.5
4504.7	7.5°	4056.3	3688.1	2988.9	2583.3	2295.0	2038.8	1830.7	1665.2	1569.2	1483.8
4926.3	10°	4317.9	3741.4	2994.2	2455.2	2038.8	1633.2	1339.7	1131.5	1014.1	939.4
5460.1	12.5°	4584.7	3949.6	3015.6	2327.1	1723.9	1227.6	880.7	725.9	656.5	619.1
5956.4	15°	4990.4	4136.4	2962.2	2092.2	1307.6	800.6	603.1	549.7	523.1	491.0
6575.6	17.5°	5342.6	4435.3	2935.5	1740.0	896.7	576.4	501.7	443.0	416.3	384.3
7189.3	20°	5817.7	4622.1	2791.4	1345.0	619.1	480.4	405.6	352.3	309.6	282.9
7851.2	22.5°	6250.0	4766.2	2535.2	918.0	475.0	378.9	298.9	245.5	208.2	176.1
8513.0	25°	6719.7	4910.3	2161.6	565.8	336.3	234.8	160.1	117.4	80.1	58.7
9057.4	27.5°	7055.9	4953.0	1675.9	336.3	202.8	106.7	37.4	5.3	0.0	0.0
9596.5	30°	7397.5	4969.0	1158.2	181.5	80.1	0.0	0.0	0.0	0.0	0.0
10215.6	32.5°	7787.1	4963.7	725.9	96.1	5.3	0.0	0.0	0.0	0.0	0.0
10898.8	35°	8086.0	4873.0	346.9	10.7	0.0	0.0	0.0	0.0	0.0	0.0
11731.4	37.5°	8539.7	4739.5	106.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12670.8	40°	9057.4	4499.3	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13588.8	42.5°	9521.7	4253.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14645.6	45°	10050.1	3949.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16108.0	47.5°	10978.8	3821.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17847.9	50°	12190.4	3720.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19518.5	52.5°	12937.6	3421.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20532.6	55°	13327.2	3111.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21770.9	57.5°	13903.7	2962.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23260.0	60°	14757.6	2972.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25752.5	62.5°	16092.0	3122.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28181.0	65°	16828.5	2972.9	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28768.1	67.5°	16204.0	2380.4	101.4	26.7	5.3	0.0	0.0	0.0	0.0	0.0
28442.5	68°	15665.0	2188.3	101.4	26.7	5.3	0.0	0.0	0.0	0.0	0.0
25747.1	70°	12948.3	1425.1	96.1	26.7	10.7	0.0	0.0	0.0	0.0	0.0
20041.6	72.5°	9431.0	789.9	80.1	21.3	10.7	0.0	0.0	0.0	0.0	0.0
11806.1	75°	5486.7	395.0	58.7	21.3	10.7	0.0	0.0	0.0	0.0	0.0
3335.8	77.5°	1430.4	197.5	48.0	26.7	16.0	5.3	0.0	0.0	0.0	0.0
608.5	80°	282.9	128.1	42.7	32.0	21.3	10.7	0.0	0.0	0.0	0.0
202.8	82.5°	133.4	90.7	42.7	32.0	26.7	16.0	5.3	0.0	0.0	0.0
90.7	85°	69.4	42.7	42.7	32.0	32.0	21.3	10.7	0.0	0.0	0.0
37.4	87.5°	32.0	16.0	16.0	16.0	16.0	10.7	5.3	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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