

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: P575167

Luminaire Tested: **EPH-VN-07-730-U-T2R-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575167  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-730-U-T2R-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

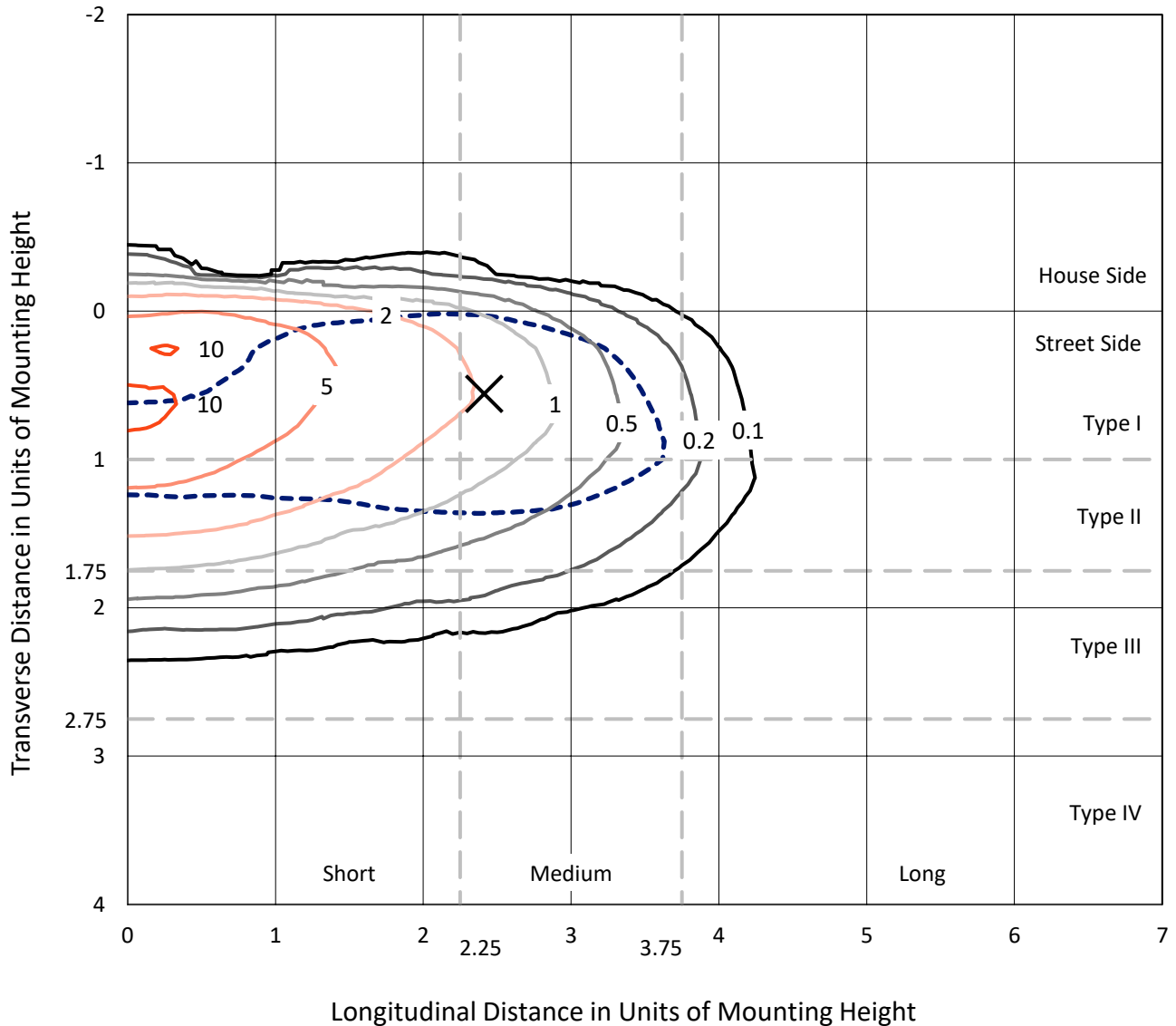
Lumens per Lamp: N/A  
Luminaire Lumens: 34922.4 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

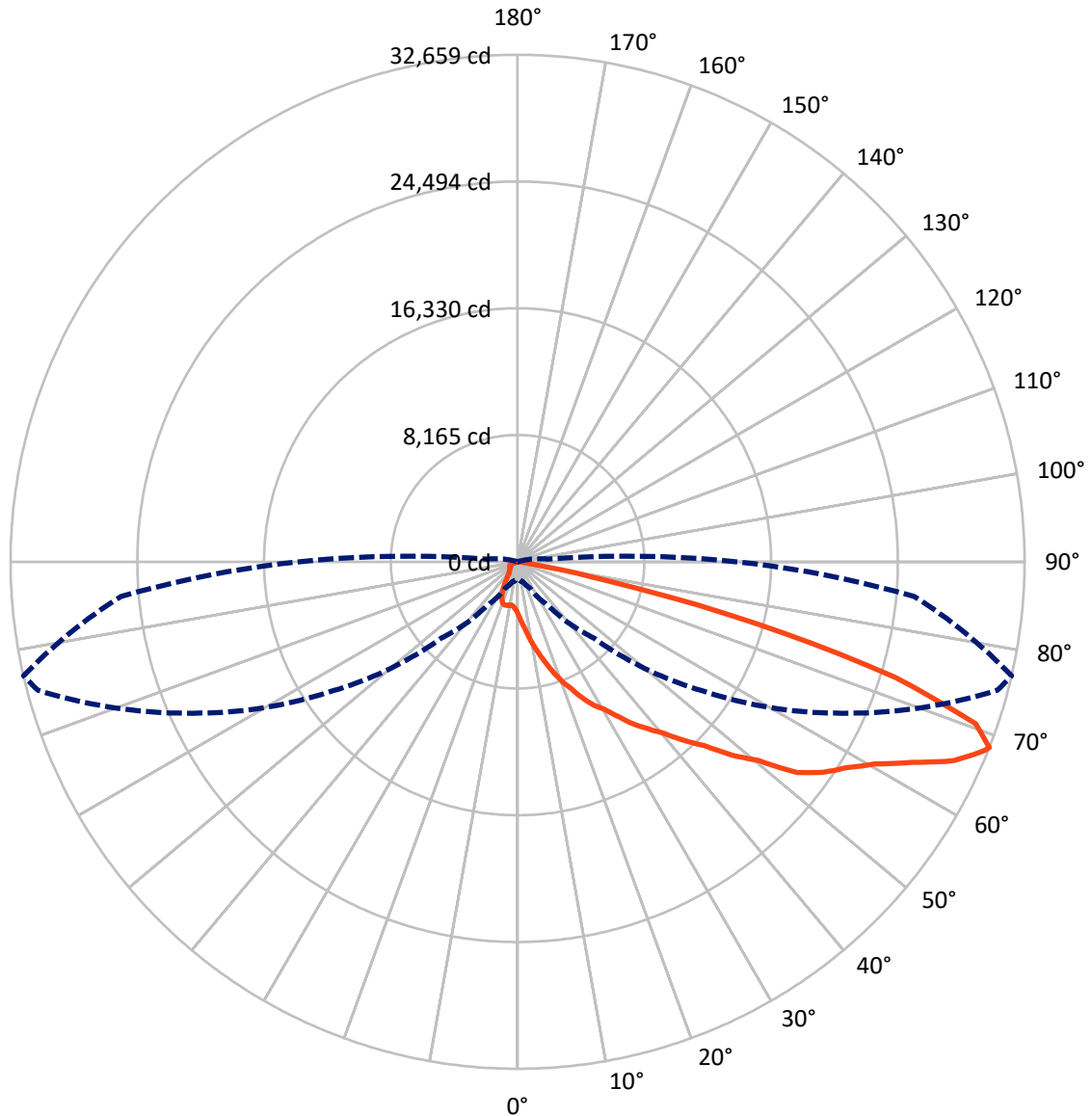
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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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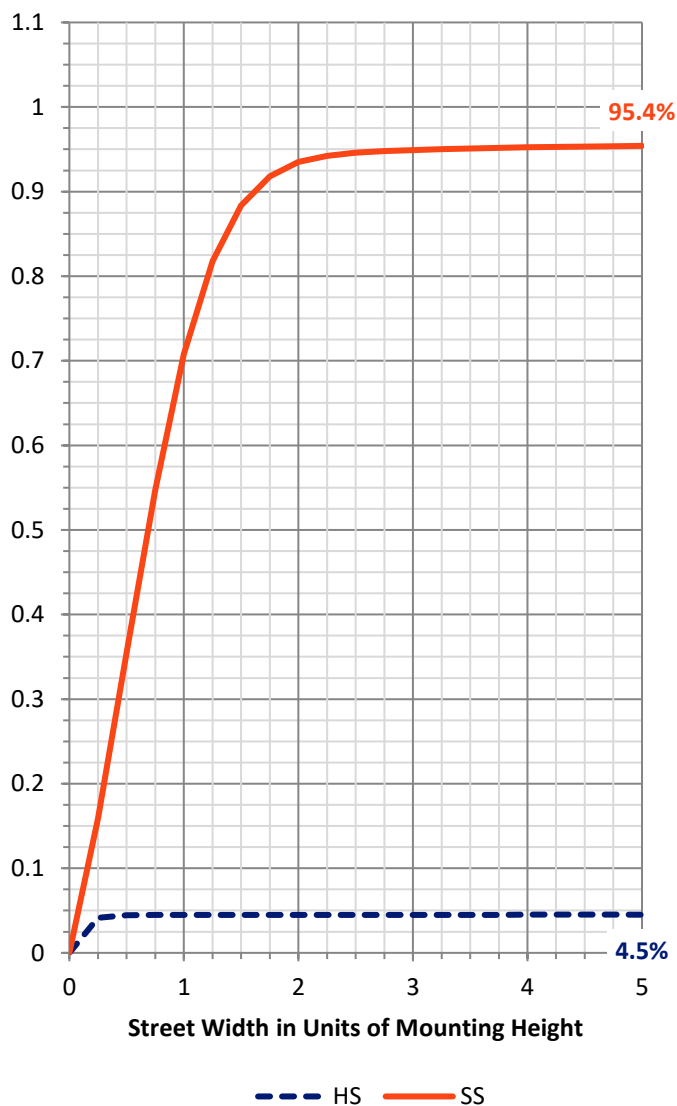
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1583.7	0.0	1583.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	33338.7	0.0	33338.7
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	34922.4	0.0	34922.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.7	1.1
10°-20°	1440.8	4.1
20°-30°	2792.2	8.0
30°-40°	4867.8	13.9
40°-50°	7129.4	20.4
50°-60°	8375.9	24.0
60°-70°	7072.7	20.3
70°-80°	2741.5	7.9
80°-90°	111.5	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°	34922.4	100.0
0°-180°	34922.4	100.0

**Coefficient of Utilization**

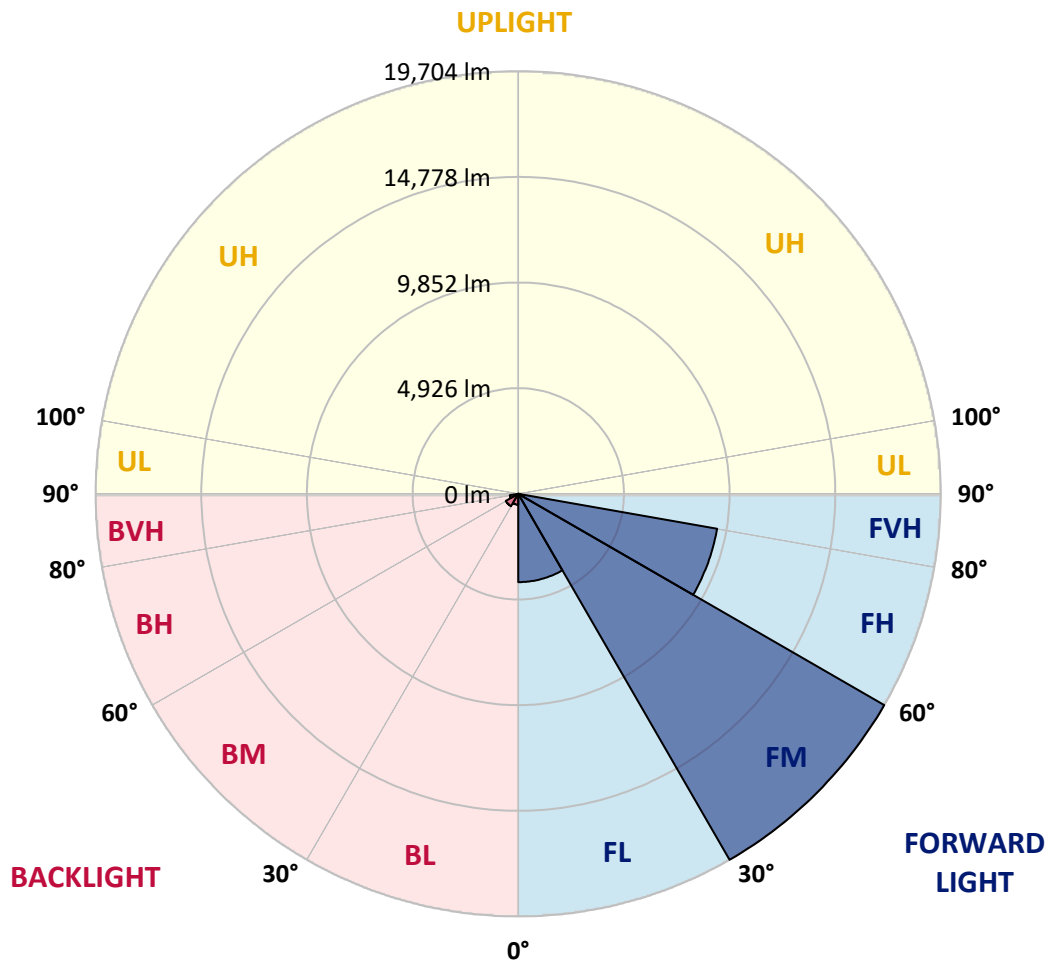


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4117.7	11.8			
FM (30°-60°)	19703.8	56.4			
FH (60°-80°)	9414.4	27.0			G4/12000
FVH (80°-90°)	102.9	0.3			G2/225
BL (0°-30°)	506.0	1.4	B2/1000		
BM (30°-60°)	669.2	1.9	B1/1000		
BH (60°-80°)	399.9	1.1	B1/500		G1/500
BVH (80°-90°)	8.6	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°	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9
2.5°	5080.8	4984.5	4883.5	4854.6	4667.0	4455.3	4258.0	4065.6	3743.2	3748.0
5°	6548.2	6427.9	6346.1	6326.9	6033.4	5667.7	5369.4	4825.8	4291.7	4171.4
7.5°	7755.9	7717.4	7597.1	7496.0	7279.5	6832.1	6480.9	5701.4	4888.3	4753.6
10°	8487.2	8544.9	8597.8	8467.9	8299.5	7977.2	7496.0	6654.1	5566.7	5398.3
12.5°	9266.6	9170.4	9204.1	9309.9	9088.6	9016.4	8419.8	7635.6	6360.6	6038.2
15°	9468.7	9507.2	9589.0	9896.9	10046.0	9839.2	9324.3	8429.4	7183.3	6735.9
17.5°	9603.4	9584.2	9685.2	10147.1	10373.2	10570.5	10248.1	9314.7	7900.2	7500.9
20°	9771.8	9666.0	9887.3	10180.8	10705.2	11119.0	11104.5	10204.8	8650.8	8227.4
22.5°	10397.3	10315.5	10493.5	10522.4	10888.0	11465.4	11604.9	10931.3	9420.6	8901.0
25°	11552.0	11701.1	11489.4	11306.6	11417.3	11797.4	11898.4	11576.0	10195.2	9718.9
27.5°	13240.8	13221.5	12802.9	12567.2	12302.6	12254.4	12326.6	12177.5	10806.2	10464.6
30°	15054.6	14895.9	14511.0	13943.2	13361.0	13000.2	12899.2	12745.2	11523.1	11027.6
32.5°	16498.0	16584.6	16156.4	15415.5	14448.4	13962.5	13476.5	13308.1	12312.2	11874.4
35°	17826.0	17710.5	17368.9	16743.4	15877.4	15093.1	14332.9	13972.1	13260.0	12827.0
37.5°	18807.5	18951.8	18302.3	17705.7	16844.4	16194.9	15449.2	14660.1	14236.7	13659.4
40°	19736.1	19509.9	19072.1	18523.6	17724.9	17229.4	16738.6	15506.9	15276.0	14530.2
42.5°	19572.5	19586.9	19346.3	18903.7	18326.3	18042.5	17874.1	16536.5	16219.0	15742.7
45°	18903.7	18961.4	19043.2	18826.7	18874.8	18591.0	19043.2	17720.1	17407.4	16902.2
47.5°	18167.6	18263.8	18244.5	18639.1	19086.5	19182.8	20313.4	19033.6	18898.9	18619.8
50°	16945.5	16984.0	17354.4	18071.3	18682.4	19687.9	21266.1	20467.4	20674.3	20125.8
52.5°	14857.4	14996.9	15949.5	16974.4	18206.1	19942.9	21910.8	22598.8	23123.2	22560.3
55°	12216.0	12408.4	13346.6	15266.3	17070.6	19558.0	22497.8	23724.6	24787.9	23936.3
57.5°	9829.5	9848.8	10690.8	12673.0	15458.8	18802.7	22796.1	24273.1	25702.1	25018.9
60°	7491.2	7414.3	8169.6	9887.3	12745.2	16945.5	22050.3	24552.2	26842.4	26447.9
62.5°	4820.9	4700.7	5523.4	7197.7	9954.6	13851.8	20558.8	24557.0	28622.6	28473.4
65°	2386.4	2304.6	3011.9	4412.0	6889.8	10594.5	18432.2	24465.6	30797.3	30893.5
67.5°	1260.6	1289.4	1515.6	2237.3	3974.2	7486.4	15227.8	23392.7	31908.7	32447.6
68°	1159.5	1169.2	1347.2	1862.0	3449.7	6942.7	14467.7	23079.9	31995.3	32659.3
70°	943.0	957.5	1020.0	1169.2	1866.8	4517.8	11162.3	20424.1	30691.4	31297.7
72.5°	750.6	793.9	832.4	894.9	1097.0	2372.0	6942.7	15915.9	25355.7	25423.0
75°	572.5	606.2	683.2	736.1	856.4	1303.9	3305.4	9704.4	16637.6	15819.6
77.5°	442.6	471.5	505.2	577.4	716.9	880.5	1010.4	4118.5	7067.8	5816.9
80°	264.6	283.9	394.5	452.3	625.5	596.6	399.3	1145.1	1433.8	1130.7
82.5°	154.0	168.4	226.1	346.4	437.8	322.4	235.8	356.0	351.2	307.9
85°	4.8	9.6	125.1	206.9	154.0	86.6	144.3	149.2	125.1	115.5
87.5°	0.0	4.8	33.7	28.9	33.7	19.2	28.9	38.5	48.1	43.3
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°
3343.9	0°	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9	3343.9
3526.7	2.5°	3377.6	3271.7	3035.9	2857.9	2665.5	2550.0	2434.5	2362.4	2323.9	2299.8
3767.3	5°	3464.2	3242.8	2862.7	2525.9	2304.6	2155.5	2006.3	1929.3	1857.2	1818.7
4060.8	7.5°	3656.6	3324.6	2694.3	2328.7	2068.9	1837.9	1650.3	1501.1	1414.5	1337.5
4440.9	10°	3892.4	3372.7	2699.2	2213.2	1837.9	1472.3	1207.6	1020.0	914.2	846.8
4922.0	12.5°	4132.9	3560.4	2718.4	2097.7	1554.1	1106.6	793.9	654.3	591.8	558.1
5369.4	15°	4498.6	3728.8	2670.3	1886.0	1178.8	721.7	543.7	495.6	471.5	442.6
5927.6	17.5°	4816.1	3998.2	2646.2	1568.5	808.3	519.6	452.3	399.3	375.3	346.4
6480.9	20°	5244.3	4166.6	2516.3	1212.5	558.1	433.0	365.7	317.5	279.1	255.0
7077.5	22.5°	5634.1	4296.5	2285.4	827.5	428.2	341.6	269.4	221.3	187.6	158.8
7674.1	25°	6057.5	4426.4	1948.6	510.0	303.1	211.7	144.3	105.8	72.2	52.9
8164.8	27.5°	6360.6	4464.9	1510.8	303.1	182.8	96.2	33.7	4.8	0.0	0.0
8650.8	30°	6668.5	4479.3	1044.1	163.6	72.2	0.0	0.0	0.0	0.0	0.0
9208.9	32.5°	7019.7	4474.5	654.3	86.6	4.8	0.0	0.0	0.0	0.0	0.0
9824.7	35°	7289.2	4392.7	312.7	9.6	0.0	0.0	0.0	0.0	0.0	0.0
10575.3	37.5°	7698.1	4272.5	96.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11422.1	40°	8164.8	4055.9	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12249.6	42.5°	8583.4	3834.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13202.3	45°	9059.7	3560.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14520.6	47.5°	9896.9	3444.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16089.1	50°	10989.1	3353.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17595.0	52.5°	11662.7	3084.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18509.2	55°	12013.9	2805.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19625.4	57.5°	12533.5	2670.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20967.8	60°	13303.3	2679.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23214.6	62.5°	14506.1	2814.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25403.8	65°	15170.1	2679.9	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25933.0	67.5°	14607.2	2145.9	91.4	24.1	4.8	0.0	0.0	0.0	0.0	0.0
25639.6	68°	14121.2	1972.6	91.4	24.1	4.8	0.0	0.0	0.0	0.0	0.0
23209.8	70°	11672.3	1284.6	86.6	24.1	9.6	0.0	0.0	0.0	0.0	0.0
18066.5	72.5°	8501.6	712.1	72.2	19.2	9.6	0.0	0.0	0.0	0.0	0.0
10642.7	75°	4946.0	356.0	52.9	19.2	9.6	0.0	0.0	0.0	0.0	0.0
3007.1	77.5°	1289.4	178.0	43.3	24.1	14.4	4.8	0.0	0.0	0.0	0.0
548.5	80°	255.0	115.5	38.5	28.9	19.2	9.6	0.0	0.0	0.0	0.0
182.8	82.5°	120.3	81.8	38.5	28.9	24.1	14.4	4.8	0.0	0.0	0.0
81.8	85°	62.5	38.5	38.5	28.9	28.9	19.2	9.6	0.0	0.0	0.0
33.7	87.5°	28.9	14.4	14.4	14.4	14.4	9.6	4.8	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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