

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: P575140

Luminaire Tested: **EPH-VN-08-740-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575140
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

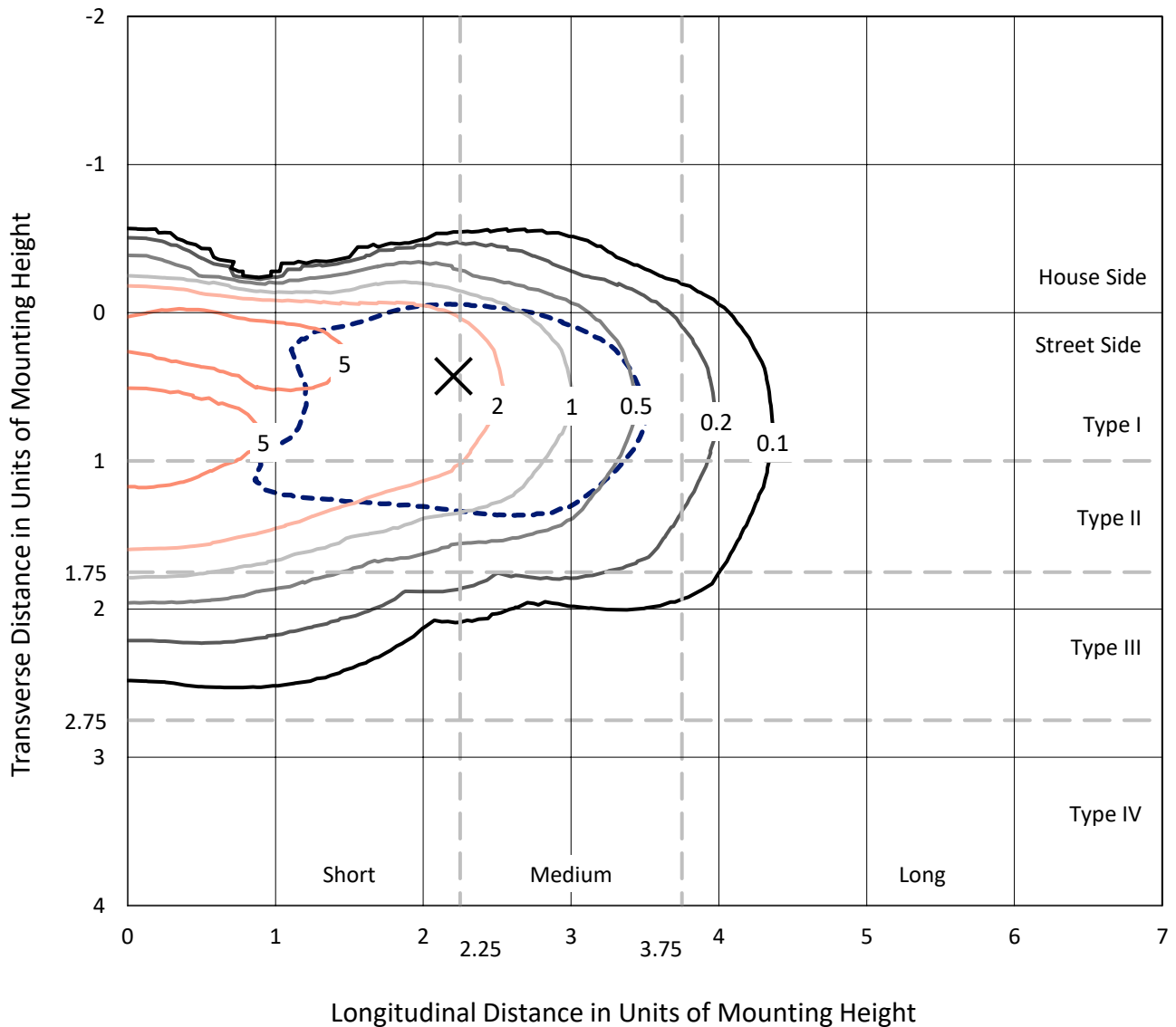
Lumens per Lamp: N/A
Luminaire Lumens: 34690.1 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

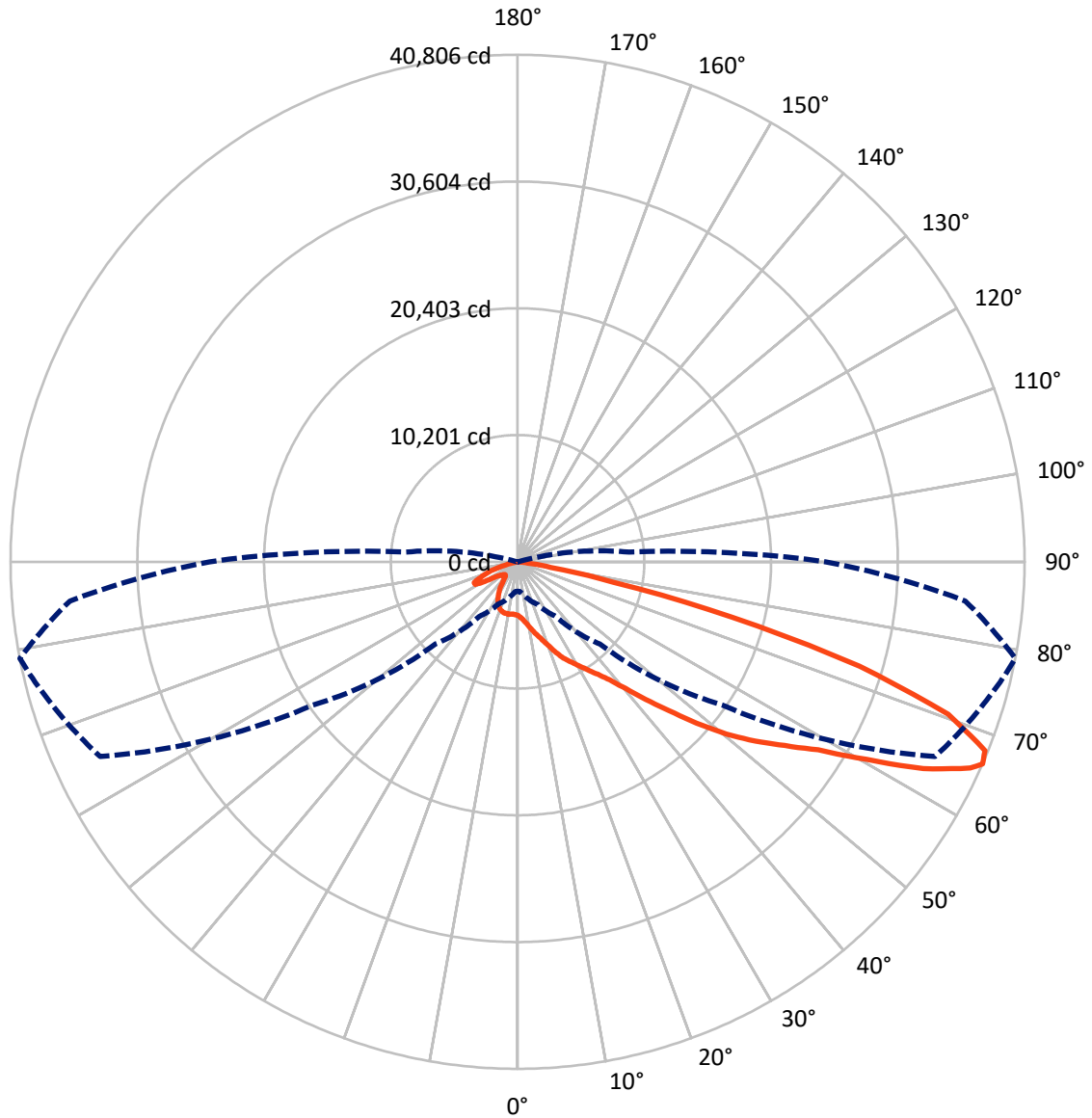
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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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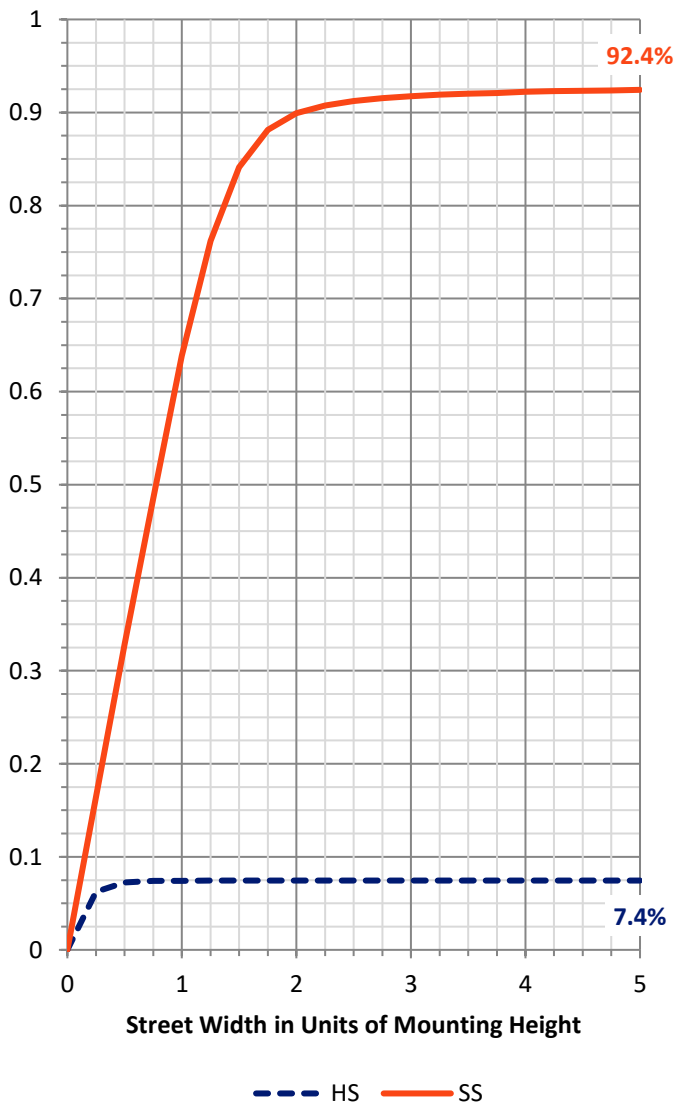
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2604.7	0.0	2604.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	32085.4	0.0	32085.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	34690.1	0.0	34690.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.2	1.2
10°-20°	1123.3	3.2
20°-30°	1866.1	5.4
30°-40°	3205.3	9.2
40°-50°	5806.8	16.7
50°-60°	9178.8	26.5
60°-70°	9340.1	26.9
70°-80°	3561.9	10.3
80°-90°	199.7	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°	34690.1	100.0
0°-180°	34690.1	100.0

Coefficient of Utilization

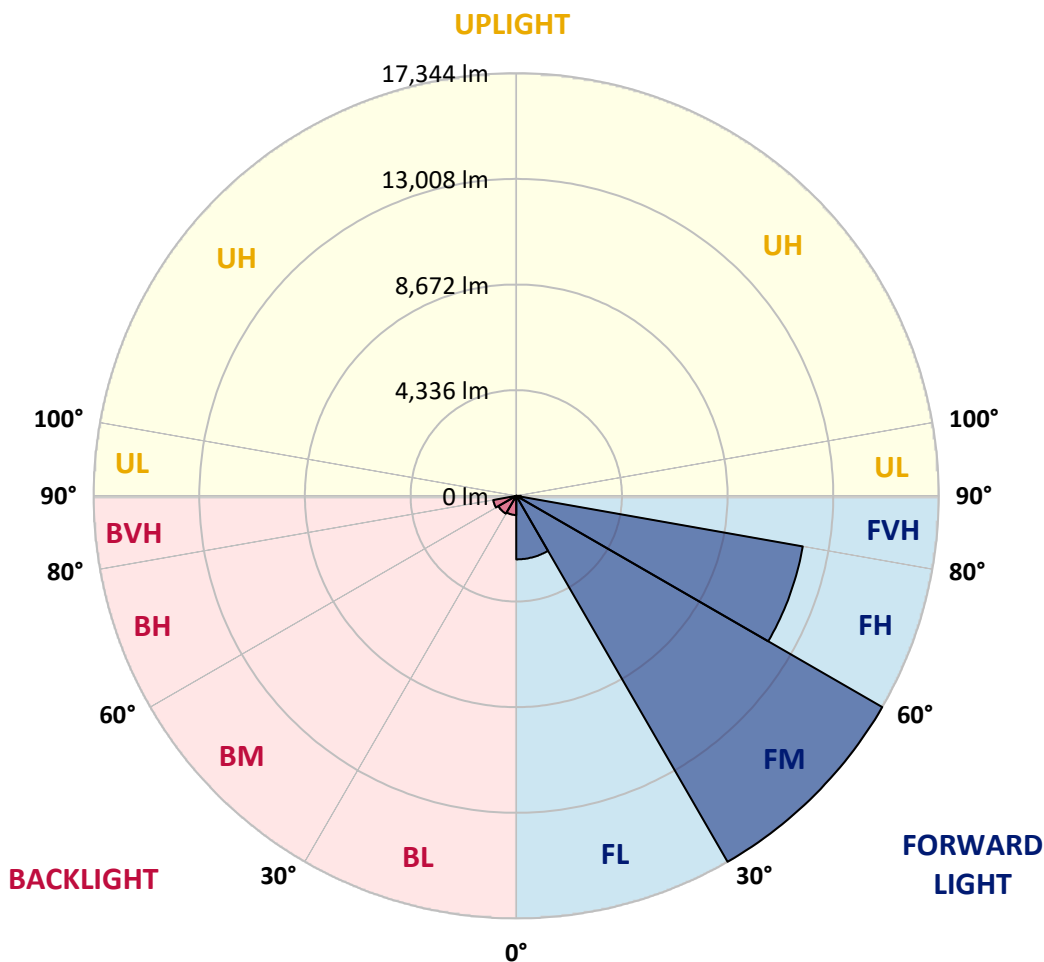


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.9	7.5			
FM (30°-60°)	17344.3	50.0			
FH (60°-80°)	11941.8	34.4			G4/12000
FVH (80°-90°)	189.5	0.5			G2/225
BL (0°-30°)	787.7	2.3	B2/1000		
BM (30°-60°)	846.6	2.4	B1/1000		
BH (60°-80°)	960.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.2	0.0			G1/100
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°	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9
2.5°	4888.1	4882.8	4861.4	4823.9	4775.8	4759.8	4690.2	4594.0	4540.5	4481.7
5°	5225.0	5198.3	5262.5	5235.7	5246.4	5118.1	5032.5	4963.0	4759.8	4679.5
7.5°	5299.9	5326.7	5321.3	5364.1	5406.9	5455.0	5396.2	5294.6	5091.3	4973.7
10°	5299.9	5289.2	5332.0	5390.8	5513.8	5620.8	5781.2	5647.5	5492.4	5353.4
12.5°	5203.6	5187.6	5230.4	5353.4	5572.7	5791.9	5968.4	6096.8	5877.5	5765.2
15°	4909.5	4893.5	5069.9	5289.2	5578.0	5936.3	6305.3	6513.9	6364.2	6187.7
17.5°	4545.8	4567.2	4754.4	5118.1	5578.0	6005.9	6476.5	6931.1	6909.7	6685.1
20°	4422.8	4438.9	4626.1	4888.1	5412.2	6054.0	6743.9	7385.7	7514.0	7246.6
22.5°	4658.1	4642.1	4658.1	4818.6	5299.9	6011.2	6920.4	7904.4	8134.4	7925.8
25°	5460.4	5449.7	5316.0	5069.9	5235.7	5914.9	7011.3	8246.7	8776.1	8583.6
27.5°	6636.9	6594.1	6385.6	5872.2	5535.2	5973.8	7161.0	8578.3	9337.7	9118.4
30°	7899.1	7797.5	7524.7	6882.9	6310.7	6193.0	7246.6	8824.3	9963.4	9685.3
32.5°	8770.8	8904.5	8818.9	8166.5	7289.4	6701.1	7385.7	9134.5	10541.0	10359.2
35°	10118.5	10273.6	9915.3	9337.7	8455.3	7508.7	7679.8	9385.8	11428.8	11123.9
37.5°	11819.2	11936.8	11680.1	10583.8	9653.2	8503.4	8284.1	9909.9	12193.5	12049.1
40°	12674.9	13241.8	12878.1	11888.7	10888.6	9893.9	9284.2	10525.0	13525.2	13407.6
42.5°	13856.8	14140.2	13953.1	13220.4	12177.5	11380.6	10519.6	11722.9	15140.3	15140.3
45°	15108.2	15118.9	15108.2	14509.3	13584.0	13172.2	12188.2	13225.7	16878.4	17071.0
47.5°	16135.1	16455.9	16429.2	16070.9	15354.2	15199.1	13856.8	14937.1	19060.4	19397.4
50°	16664.5	17022.8	17129.8	17317.0	17284.9	17611.1	15680.5	16921.2	20943.0	21771.9
52.5°	16520.1	16546.9	17204.7	17942.7	19119.3	20033.8	17878.5	19172.7	23146.3	23964.6
55°	15338.2	15236.6	16589.6	17434.6	19868.0	21515.2	20921.6	21980.5	24863.1	26109.2
57.5°	12744.4	12771.1	14022.6	15739.3	19311.8	22103.5	24173.2	25649.2	27269.7	28526.5
60°	8797.5	8765.4	10166.6	12150.8	16044.1	21007.1	26045.0	30403.6	30489.2	32270.1
62.5°	4946.9	4957.6	6021.9	7717.2	11225.6	17167.2	25954.1	35452.2	35088.5	36650.2
65°	2802.4	2871.9	3604.6	4572.6	6722.5	11525.0	22322.7	37463.1	38634.3	40024.8
66°	2369.2	2417.3	3043.0	3775.7	5364.1	9348.4	20092.6	37072.7	39746.7	40805.6
67.5°	1834.4	1898.6	2422.7	2994.9	3936.2	6471.1	16172.5	35131.3	39949.9	40570.3
70°	1256.8	1299.6	1700.7	2272.9	2690.1	3310.4	9669.3	29045.2	36249.1	36773.2
72.5°	882.4	903.8	1192.6	1722.1	2069.7	1893.2	4797.2	20664.9	27740.3	28761.8
75°	636.4	657.8	818.3	1235.4	1615.1	1240.7	2198.0	13199.0	17012.1	17814.3
77.5°	459.9	486.7	556.2	796.9	1171.2	871.7	1080.3	6893.6	8022.1	7883.0
80°	278.1	304.8	411.8	513.4	855.7	615.0	593.6	2877.2	2845.2	2700.8
82.5°	128.4	149.7	219.3	347.6	599.0	427.8	283.4	1026.8	898.5	823.6
85°	37.4	48.1	128.4	262.1	304.8	208.6	171.1	353.0	369.0	315.5
87.5°	0.0	5.3	58.8	64.2	90.9	69.5	64.2	90.9	171.1	139.0
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°
4315.9	0°	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9	4315.9
4454.9	2.5°	4358.7	4321.2	4230.3	4091.3	3968.3	3904.1	3813.2	3732.9	3690.2	3684.8
4551.2	5°	4465.6	4364.0	4144.7	3893.4	3706.2	3503.0	3363.9	3262.3	3166.0	3075.1
4834.6	7.5°	4610.0	4449.6	4091.3	3765.0	3358.6	3096.5	2850.5	2706.1	2620.5	2540.3
5102.0	10°	4834.6	4631.4	4053.8	3465.5	3000.3	2615.2	2363.8	2155.3	2037.6	1898.6
5439.0	12.5°	5139.5	4775.8	3914.8	3192.8	2593.8	2187.4	1829.0	1492.1	1304.9	1160.5
5824.0	15°	5444.3	4968.3	3786.4	2861.2	2224.8	1690.0	1165.9	935.9	882.4	850.3
6305.3	17.5°	5743.8	5123.4	3588.5	2524.3	1802.3	1075.0	850.3	802.2	775.5	743.4
6749.2	20°	6107.5	5225.0	3342.5	2214.1	1240.7	796.9	727.3	695.2	652.5	609.7
7332.2	22.5°	6460.4	5310.6	3059.1	1818.3	834.3	689.9	609.7	566.9	529.5	486.7
7802.8	25°	6813.4	5337.4	2690.1	1304.9	673.9	550.8	476.0	417.1	379.7	342.3
8225.3	27.5°	7054.1	5171.6	2342.4	834.3	540.2	417.1	331.6	283.4	251.4	213.9
8594.3	30°	7193.1	4866.7	1968.1	588.3	406.5	283.4	197.9	149.7	117.7	90.9
9225.4	32.5°	7332.2	4620.7	1545.6	449.2	267.4	149.7	74.9	26.7	0.0	0.0
9813.7	35°	7610.3	4342.6	1037.5	251.4	90.9	5.3	0.0	0.0	0.0	0.0
10567.7	37.5°	7786.8	3957.6	476.0	37.4	0.0	0.0	0.0	0.0	0.0	0.0
11610.6	40°	8230.6	3765.0	117.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13022.5	42.5°	8952.6	3631.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14712.5	45°	9744.1	3577.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16359.7	47.5°	10797.7	3722.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18477.5	50°	11910.1	4112.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20114.0	52.5°	13129.5	4481.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21804.0	55°	14193.7	4925.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24178.5	57.5°	16151.1	5973.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28440.9	60°	19664.8	8032.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33286.2	62.5°	23622.3	9562.3	58.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36227.7	65°	25071.6	9524.9	101.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
36168.8	66°	24814.9	9000.8	101.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
35147.4	67.5°	23483.3	7995.3	90.9	10.7	0.0	0.0	0.0	0.0	0.0	0.0
30548.0	70°	20167.5	6604.8	90.9	16.0	0.0	0.0	0.0	0.0	0.0	0.0
23761.4	72.5°	15375.6	5144.8	85.6	21.4	5.3	0.0	0.0	0.0	0.0	0.0
14311.4	75°	9278.9	2738.2	69.5	26.7	10.7	0.0	0.0	0.0	0.0	0.0
6155.6	77.5°	3695.5	962.6	53.5	21.4	10.7	0.0	0.0	0.0	0.0	0.0
1936.0	80°	1000.1	288.8	32.1	21.4	16.0	5.3	0.0	0.0	0.0	0.0
545.5	82.5°	262.1	107.0	26.7	21.4	10.7	5.3	0.0	0.0	0.0	0.0
181.8	85°	101.6	42.8	21.4	16.0	16.0	10.7	5.3	0.0	0.0	0.0
58.8	87.5°	32.1	16.0	16.0	10.7	10.7	5.3	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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