

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: P575182

Luminaire Tested: **EPH-VN-04-750-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575182
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

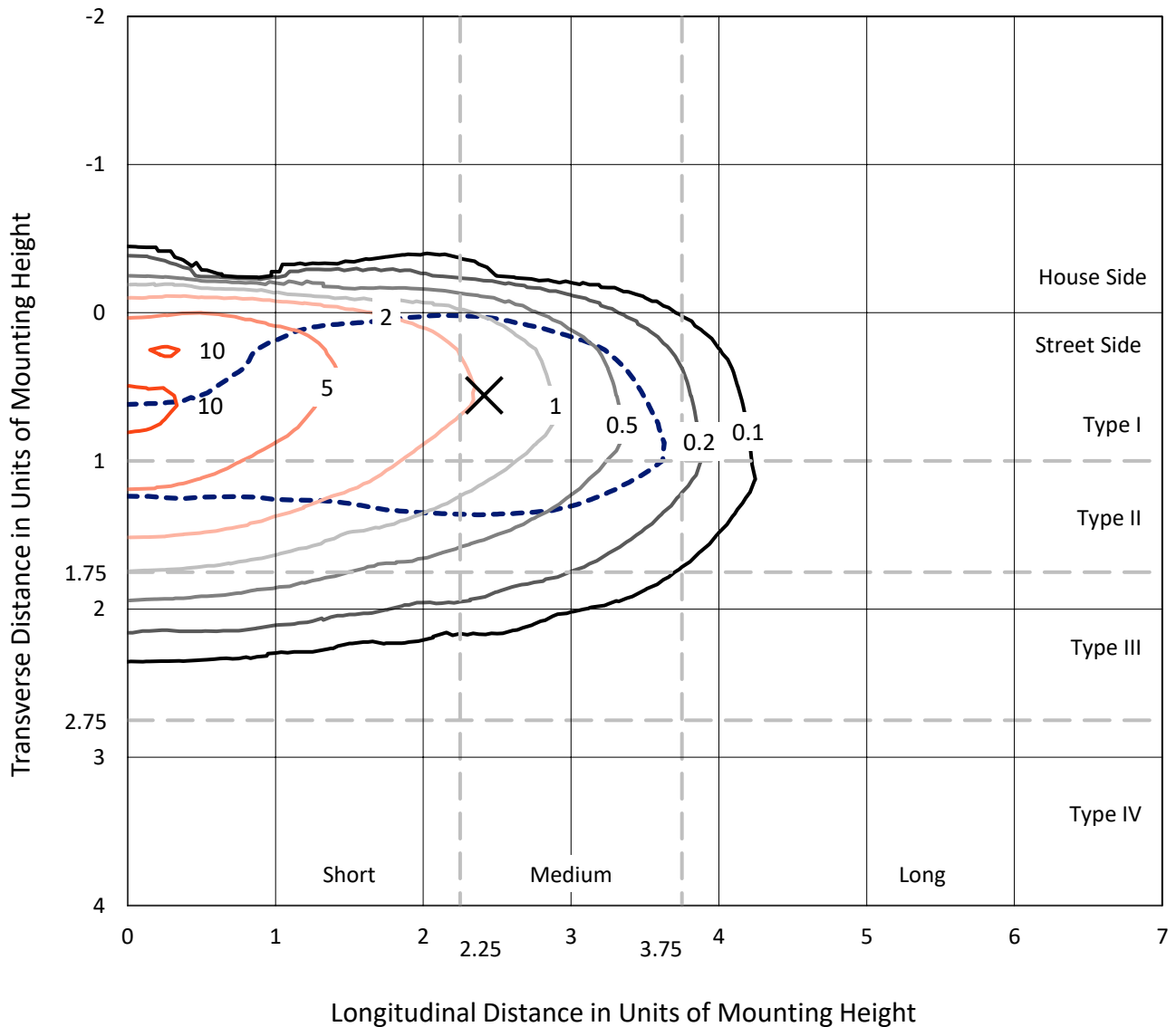
Lumens per Lamp: N/A
Luminaire Lumens: 24304.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 241
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

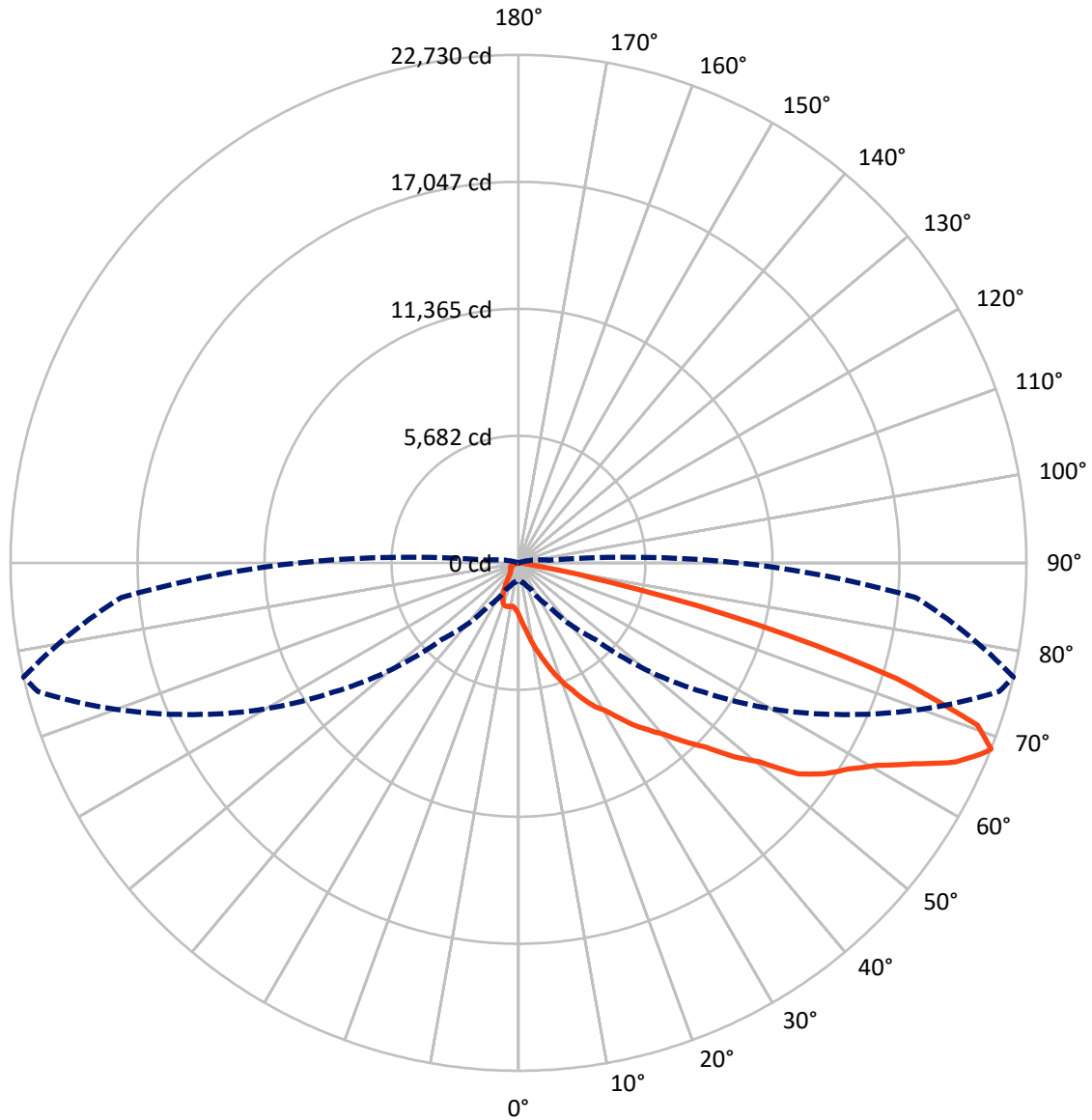
× Max cd
 - - - 1/2 Max cd



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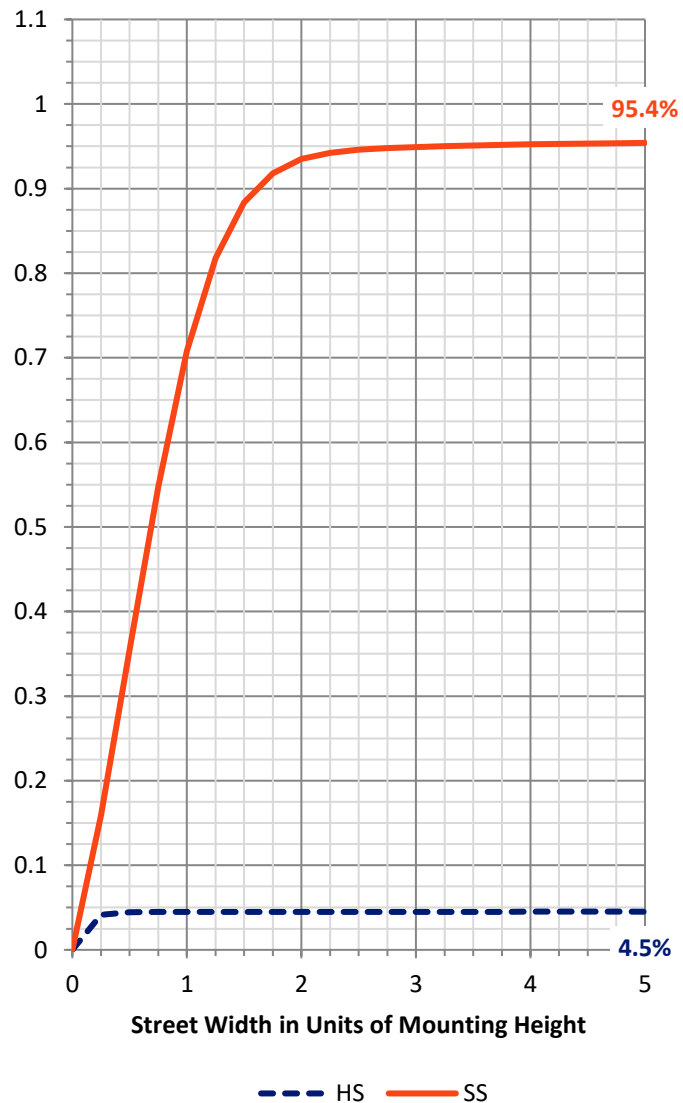
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1102.2	0.0	1102.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	23202.4	0.0	23202.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	24304.6	0.0	24304.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	1.1
10°-20°	1002.7	4.1
20°-30°	1943.3	8.0
30°-40°	3387.8	13.9
40°-50°	4961.7	20.4
50°-60°	5829.3	24.0
60°-70°	4922.3	20.3
70°-80°	1908.0	7.9
80°-90°	77.6	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°	24304.6	100.0
0°-180°	24304.6	100.0

Coefficient of Utilization

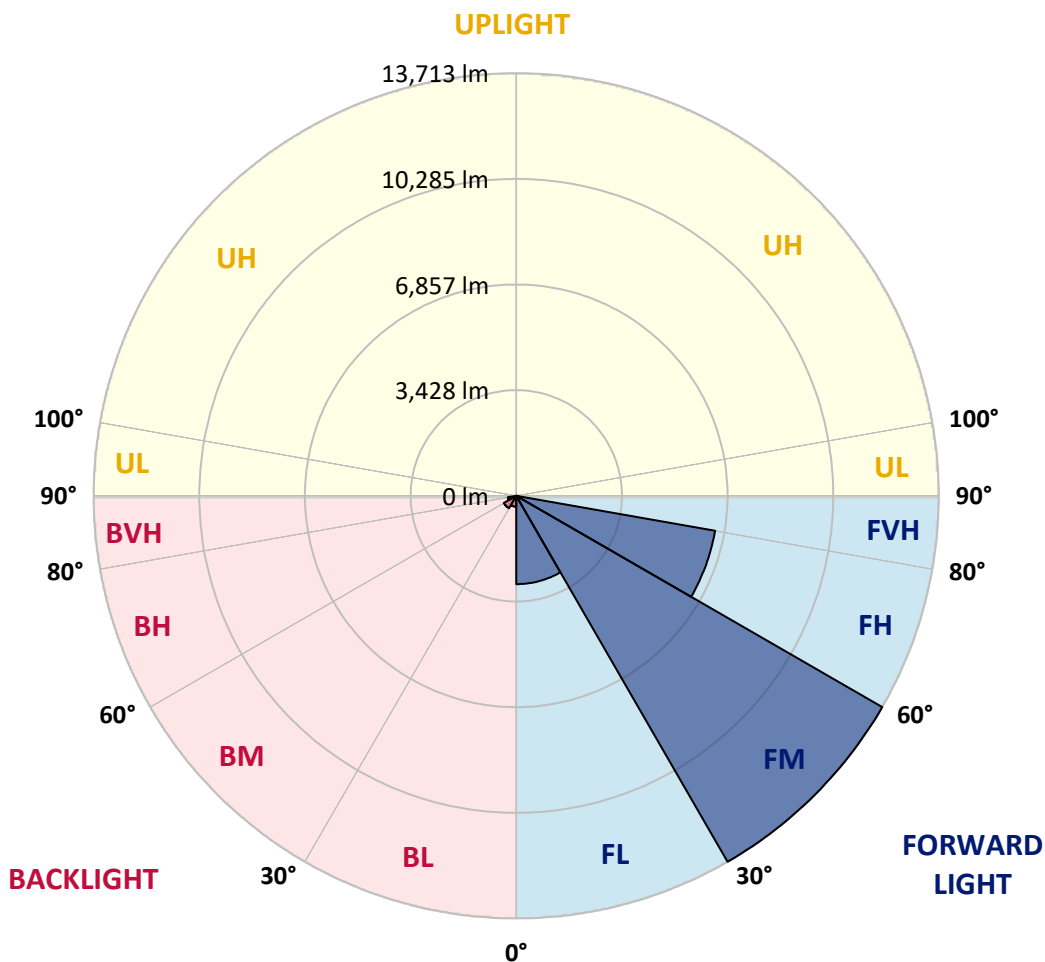


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2865.7	11.8			
FM (30°-60°)	13713.1	56.4			
FH (60°-80°)	6552.0	27.0			G3/7500
FVH (80°-90°)	71.6	0.3			G1/100
BL (0°-30°)	352.2	1.4	B1/500		
BM (30°-60°)	465.7	1.9	B1/1000		
BH (60°-80°)	278.3	1.1	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	3536.0	3469.0	3398.7	3378.6	3248.0	3100.7	2963.4	2829.5	2605.1	2608.5
5°	4557.3	4473.6	4416.7	4403.3	4199.0	3944.5	3736.9	3358.5	2986.9	2903.1
7.5°	5397.8	5371.0	5287.3	5216.9	5066.3	4754.9	4510.4	3968.0	3402.1	3308.3
10°	5906.7	5946.9	5983.7	5893.3	5776.1	5551.8	5216.9	4631.0	3874.2	3757.0
12.5°	6449.2	6382.2	6405.7	6479.3	6325.3	6275.1	5859.9	5314.1	4426.7	4202.4
15°	6589.8	6616.6	6673.5	6887.8	6991.6	6847.7	6489.4	5866.6	4999.3	4687.9
17.5°	6683.6	6670.2	6740.5	7062.0	7219.3	7356.6	7132.3	6482.7	5498.2	5220.3
20°	6800.8	6727.1	6881.1	7085.4	7450.4	7738.4	7728.3	7102.1	6020.6	5725.9
22.5°	7236.1	7179.2	7303.1	7323.1	7577.6	7979.4	8076.6	7607.8	6556.3	6194.7
25°	8039.7	8143.5	7996.2	7868.9	7946.0	8210.5	8280.8	8056.5	7095.4	6763.9
27.5°	9215.0	9201.6	8910.3	8746.3	8562.1	8528.6	8578.8	8475.0	7520.7	7283.0
30°	10477.4	10366.9	10099.0	9703.9	9298.8	9047.6	8977.3	8870.1	8019.6	7674.7
32.5°	11482.0	11542.2	11244.2	10728.6	10055.5	9717.3	9379.1	9261.9	8568.8	8264.1
35°	12406.2	12325.8	12088.0	11652.7	11050.0	10504.2	9975.1	9724.0	9228.4	8927.1
37.5°	13089.2	13189.7	12737.7	12322.4	11723.1	11271.0	10752.0	10202.8	9908.2	9506.4
40°	13735.5	13578.1	13273.4	12891.7	12335.8	11990.9	11649.4	10792.2	10631.5	10112.4
42.5°	13621.7	13631.7	13464.3	13156.2	12754.4	12556.8	12439.6	11508.8	11287.8	10956.3
45°	13156.2	13196.4	13253.3	13102.6	13136.1	12938.6	13253.3	12332.5	12114.8	11763.2
47.5°	12643.9	12710.9	12697.5	12972.0	13283.5	13350.4	14137.3	13246.6	13152.9	12958.7
50°	11793.4	11820.2	12078.0	12576.9	13002.2	13702.0	14800.3	14244.5	14388.5	14006.7
52.5°	10340.1	10437.2	11100.2	11813.5	12670.7	13879.5	15249.0	15727.9	16092.8	15701.1
55°	8501.8	8635.8	9288.7	10624.8	11880.4	13611.6	15657.5	16511.4	17251.4	16658.7
57.5°	6841.0	6854.4	7440.3	8819.9	10758.7	13085.9	15865.1	16893.1	17887.6	17412.1
60°	5213.6	5160.0	5685.7	6881.1	8870.1	11793.4	15346.1	17087.3	18681.2	18406.6
62.5°	3355.2	3271.5	3844.1	5009.3	6928.0	9640.3	14308.1	17090.7	19920.2	19816.4
65°	1660.9	1603.9	2096.2	3070.6	4795.0	7373.4	12828.1	17027.1	21433.7	21500.6
67.5°	877.3	897.4	1054.8	1557.0	2765.9	5210.2	10598.0	16280.4	22207.2	22582.2
68°	807.0	813.7	937.6	1295.9	2400.9	4831.9	10068.9	16062.7	22267.4	22729.5
70°	656.3	666.3	709.9	813.7	1299.2	3144.2	7768.5	14214.3	21360.0	21781.9
72.5°	522.4	552.5	579.3	622.8	763.5	1650.8	4831.9	11076.8	17646.5	17693.4
75°	398.5	421.9	475.5	512.3	596.0	907.4	2300.4	6753.9	11579.1	11009.8
77.5°	308.1	328.2	351.6	401.8	498.9	612.8	703.2	2866.3	4918.9	4048.3
80°	184.2	197.6	274.6	314.8	435.3	415.2	277.9	796.9	997.8	786.9
82.5°	107.2	117.2	157.4	241.1	304.7	224.3	164.1	247.8	244.4	214.3
85°	3.3	6.7	87.1	144.0	107.2	60.3	100.5	103.8	87.1	80.4
87.5°	0.0	3.3	23.4	20.1	23.4	13.4	20.1	26.8	33.5	30.1
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°
2327.2	0°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2454.4	2.5°	2350.6	2277.0	2112.9	1989.0	1855.1	1774.7	1694.3	1644.1	1617.3	1600.6
2621.9	5°	2410.9	2256.9	1992.4	1758.0	1603.9	1500.1	1396.3	1342.7	1292.5	1265.7
2826.1	7.5°	2544.9	2313.8	1875.2	1620.7	1439.9	1279.1	1148.5	1044.7	984.5	930.9
3090.7	10°	2708.9	2347.3	1878.5	1540.3	1279.1	1024.6	840.5	709.9	636.2	589.3
3425.5	12.5°	2876.4	2477.9	1891.9	1459.9	1081.6	770.2	552.5	455.4	411.9	388.4
3736.9	15°	3130.8	2595.1	1858.4	1312.6	820.4	502.3	378.4	344.9	328.2	308.1
4125.3	17.5°	3351.8	2782.6	1841.7	1091.6	562.5	361.6	314.8	277.9	261.2	241.1
4510.4	20°	3649.9	2899.8	1751.3	843.8	388.4	301.4	254.5	221.0	194.2	177.5
4925.6	22.5°	3921.1	2990.2	1590.5	575.9	298.0	237.7	187.5	154.0	130.6	110.5
5340.8	25°	4215.7	3080.6	1356.1	354.9	211.0	147.3	100.5	73.7	50.2	36.8
5682.4	27.5°	4426.7	3107.4	1051.4	211.0	127.2	67.0	23.4	3.3	0.0	0.0
6020.6	30°	4641.0	3117.4	726.6	113.8	50.2	0.0	0.0	0.0	0.0	0.0
6409.0	32.5°	4885.4	3114.1	455.4	60.3	3.3	0.0	0.0	0.0	0.0	0.0
6837.6	35°	5073.0	3057.2	217.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0
7360.0	37.5°	5357.6	2973.5	67.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7949.3	40°	5682.4	2822.8	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8525.3	42.5°	5973.7	2668.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9188.3	45°	6305.2	2477.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10105.7	47.5°	6887.8	2397.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11197.3	50°	7647.9	2333.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12245.4	52.5°	8116.7	2146.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12881.6	55°	8361.2	1952.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13658.5	57.5°	8722.8	1858.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14592.7	60°	9258.6	1865.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16156.5	62.5°	10095.7	1958.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17680.0	65°	10557.8	1865.1	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18048.4	67.5°	10166.0	1493.4	63.6	16.7	3.3	0.0	0.0	0.0	0.0	0.0
17844.1	68°	9827.8	1372.9	63.6	16.7	3.3	0.0	0.0	0.0	0.0	0.0
16153.1	70°	8123.4	894.0	60.3	16.7	6.7	0.0	0.0	0.0	0.0	0.0
12573.6	72.5°	5916.8	495.6	50.2	13.4	6.7	0.0	0.0	0.0	0.0	0.0
7406.9	75°	3442.2	247.8	36.8	13.4	6.7	0.0	0.0	0.0	0.0	0.0
2092.8	77.5°	897.4	123.9	30.1	16.7	10.0	3.3	0.0	0.0	0.0	0.0
381.7	80°	177.5	80.4	26.8	20.1	13.4	6.7	0.0	0.0	0.0	0.0
127.2	82.5°	83.7	56.9	26.8	20.1	16.7	10.0	3.3	0.0	0.0	0.0
56.9	85°	43.5	26.8	26.8	20.1	20.1	13.4	6.7	0.0	0.0	0.0
23.4	87.5°	20.1	10.0	10.0	10.0	10.0	6.7	3.3	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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