

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: P575170

Luminaire Tested: **EPH-VN-04-735-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575170
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

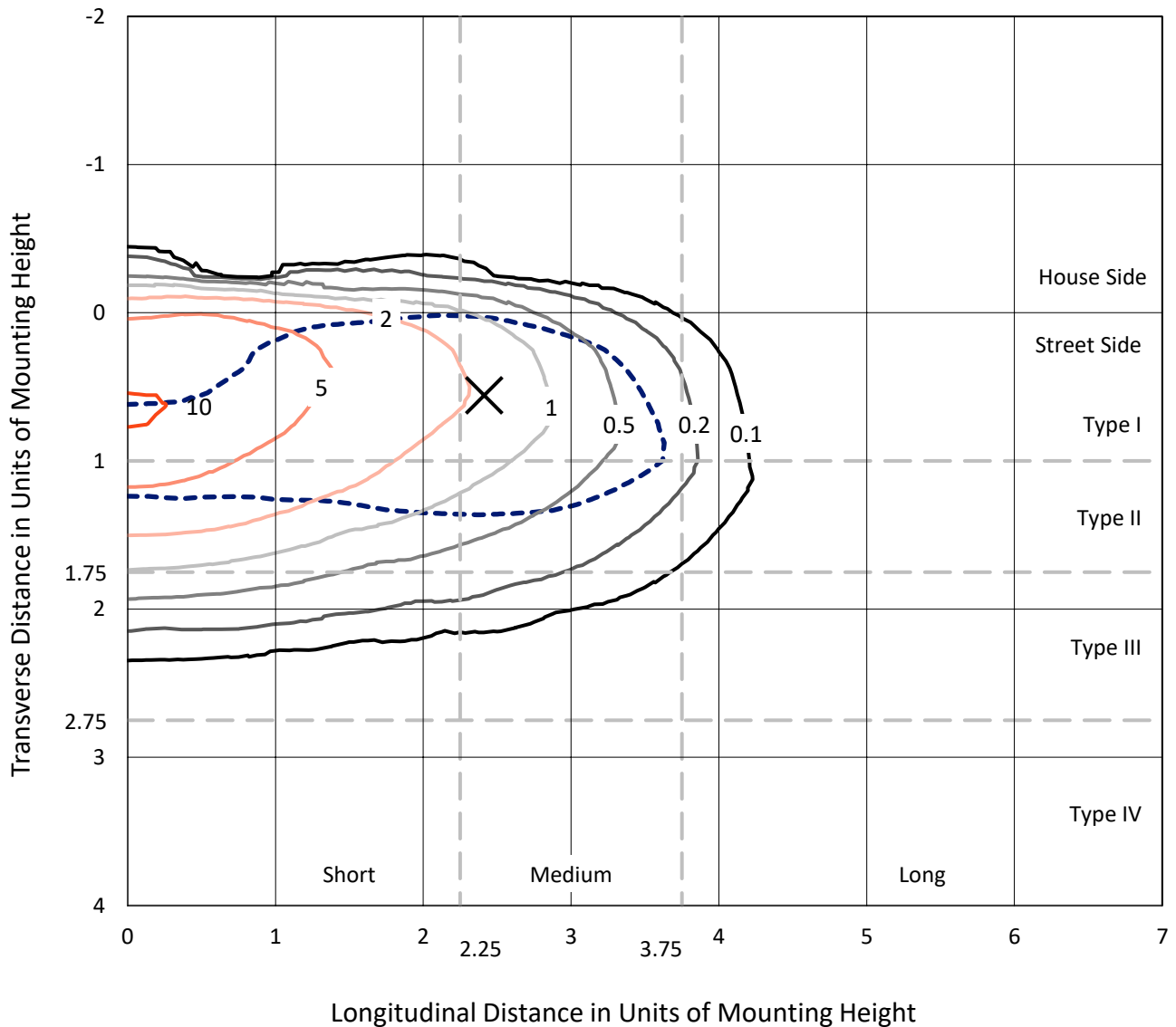
Lumens per Lamp: N/A
Luminaire Lumens: 23434.9 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

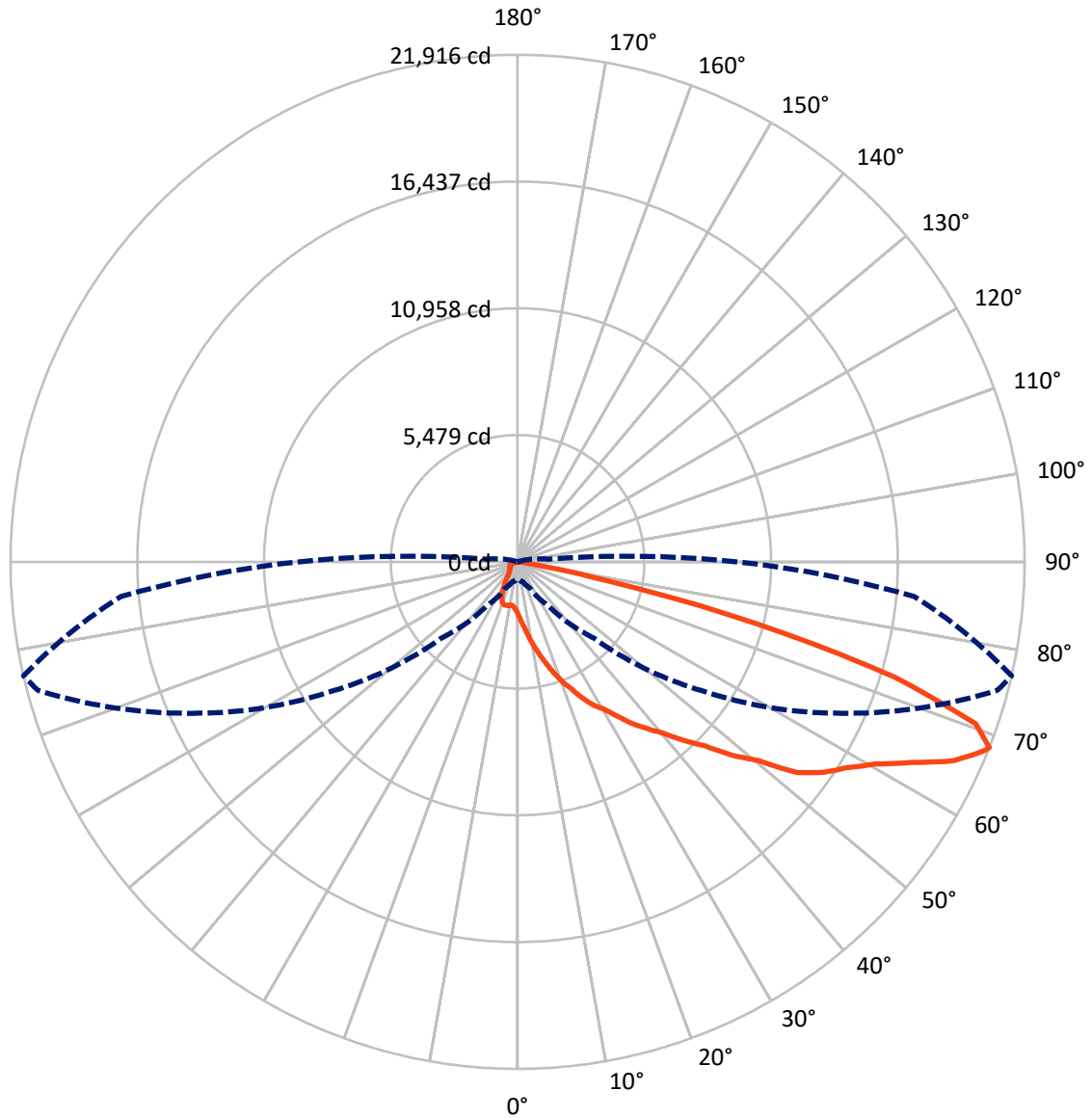
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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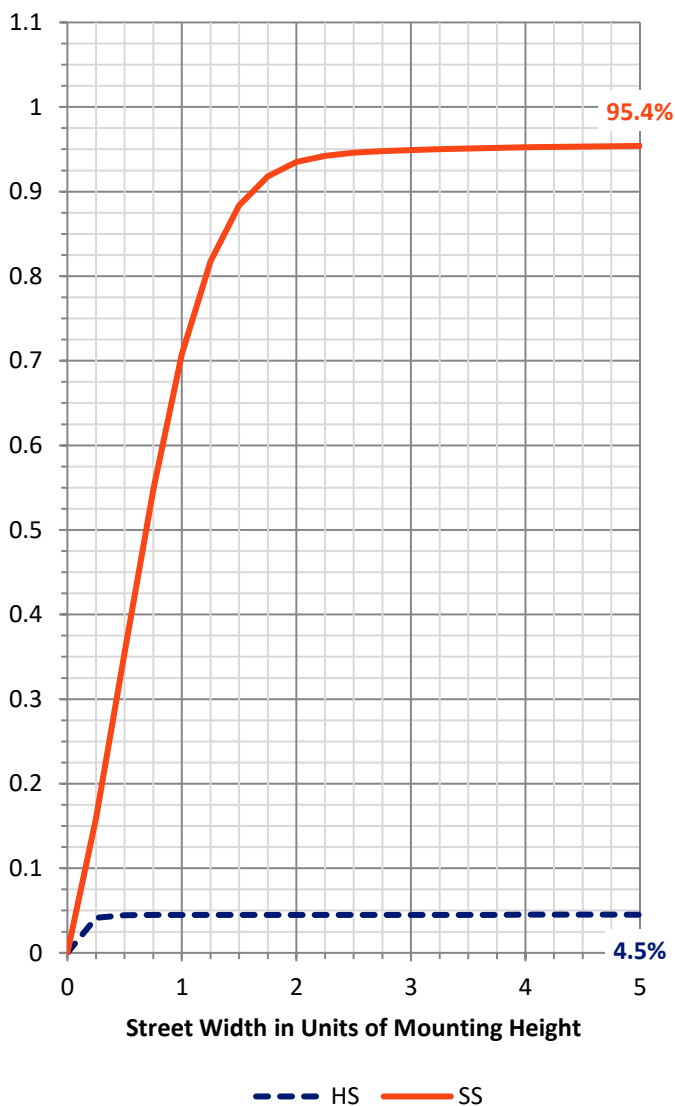
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1062.8	0.0	1062.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	22372.2	0.0	22372.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	23434.9	0.0	23434.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	1.1
10°-20°	966.8	4.1
20°-30°	1873.7	8.0
30°-40°	3266.6	13.9
40°-50°	4784.2	20.4
50°-60°	5620.7	24.0
60°-70°	4746.2	20.3
70°-80°	1839.7	7.9
80°-90°	74.8	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°	23434.9	100.0
0°-180°	23434.9	100.0

Coefficient of Utilization

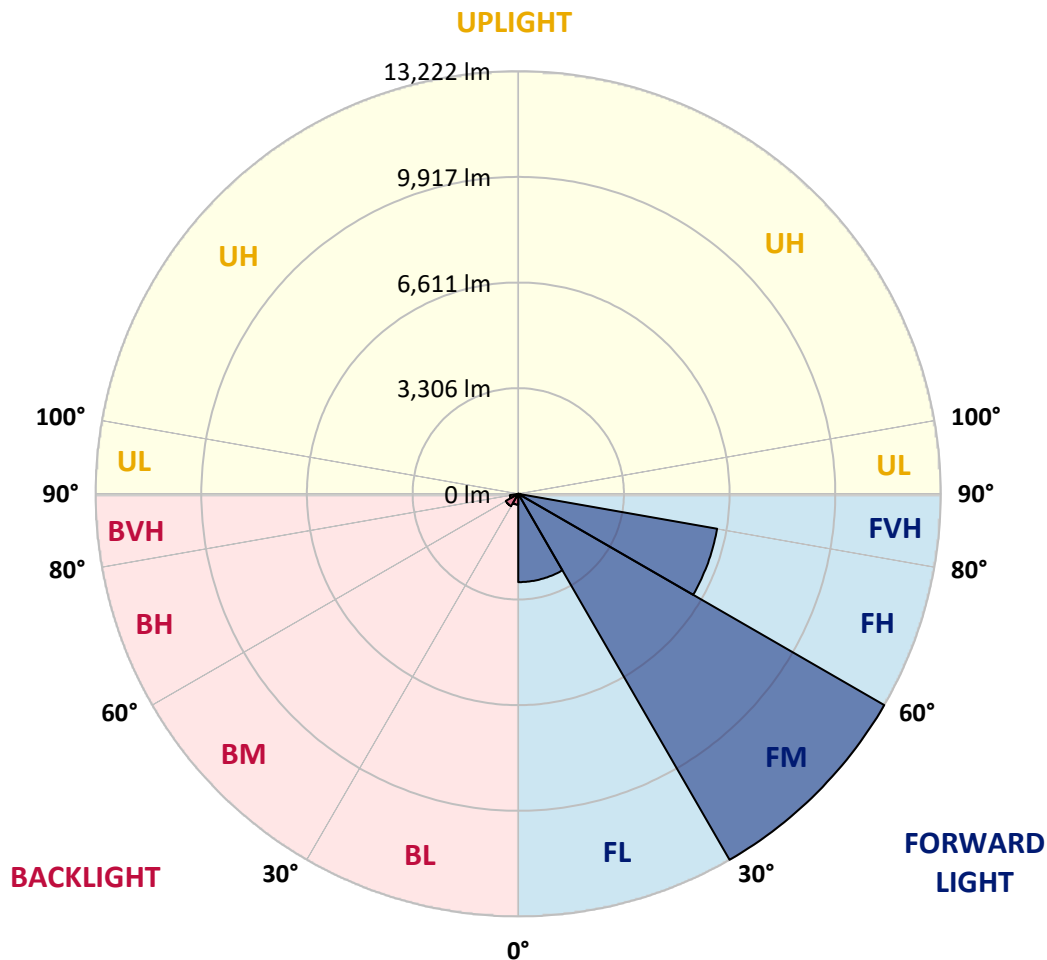


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2763.2	11.8			
FM (30°-60°)	13222.4	56.4			
FH (60°-80°)	6317.6	27.0			G3/7500
FVH (80°-90°)	69.0	0.3			G1/100
BL (0°-30°)	339.6	1.4	B1/500		
BM (30°-60°)	449.1	1.9	B1/1000		
BH (60°-80°)	268.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9
2.5°	3409.5	3344.9	3277.1	3257.7	3131.8	2989.8	2857.4	2728.2	2511.9	2515.1
5°	4394.2	4313.5	4258.6	4245.7	4048.8	3803.4	3603.2	3238.4	2880.0	2799.3
7.5°	5204.6	5178.8	5098.1	5030.3	4885.0	4584.7	4349.0	3826.0	3280.3	3189.9
10°	5695.4	5734.1	5769.6	5682.5	5569.5	5353.1	5030.3	4465.3	3735.6	3622.6
12.5°	6218.4	6153.9	6176.5	6247.5	6099.0	6050.5	5650.2	5123.9	4268.3	4052.0
15°	6354.0	6379.9	6434.8	6641.4	6741.5	6602.6	6257.2	5656.6	4820.4	4520.1
17.5°	6444.4	6431.5	6499.3	6809.3	6961.0	7093.4	6877.1	6250.7	5301.5	5033.5
20°	6557.4	6486.4	6634.9	6831.9	7183.8	7461.5	7451.8	6848.0	5805.2	5521.0
22.5°	6977.2	6922.3	7041.7	7061.1	7306.5	7693.9	7787.6	7335.6	6321.8	5973.1
25°	7752.1	7852.1	7710.1	7587.4	7661.7	7916.7	7984.5	7768.2	6841.6	6521.9
27.5°	8885.3	8872.4	8591.5	8433.3	8255.7	8223.4	8271.9	8171.8	7251.6	7022.4
30°	10102.5	9996.0	9737.7	9356.7	8966.0	8723.9	8656.1	8552.8	7732.7	7400.1
32.5°	11071.1	11129.3	10841.9	10344.7	9695.7	9369.6	9043.5	8930.5	8262.2	7968.4
35°	11962.3	11884.8	11655.5	11235.8	10654.6	10128.4	9618.2	9376.1	8898.2	8607.7
37.5°	12620.9	12717.8	12281.9	11881.5	11303.6	10867.7	10367.3	9837.8	9553.7	9166.2
40°	13244.0	13092.3	12798.5	12430.4	11894.4	11561.9	11232.6	10406.0	10251.1	9750.6
42.5°	13134.3	13143.9	12982.5	12685.5	12298.0	12107.5	11994.5	11097.0	10883.9	10564.2
45°	12685.5	12724.2	12779.1	12633.8	12666.1	12475.6	12779.1	11891.2	11681.4	11342.3
47.5°	12191.5	12256.1	12243.1	12507.9	12808.2	12872.7	13631.5	12772.6	12682.2	12495.0
50°	11371.4	11397.2	11645.8	12126.9	12537.0	13211.7	14270.8	13734.8	13873.6	13505.6
52.5°	9970.2	10063.8	10703.1	11390.8	12217.3	13382.9	14703.4	15165.1	15517.0	15139.3
55°	8197.6	8326.8	8956.4	10244.6	11455.3	13124.6	15097.3	15920.6	16634.1	16062.7
57.5°	6596.2	6609.1	7174.1	8504.3	10373.7	12617.7	15297.5	16288.7	17247.6	16789.1
60°	5027.1	4975.4	5482.3	6634.9	8552.8	11371.4	14797.0	16475.9	18012.8	17748.0
62.5°	3235.1	3154.4	3706.5	4830.1	6680.1	9295.4	13796.1	16479.2	19207.4	19107.3
65°	1601.4	1546.5	2021.2	2960.7	4623.5	7109.5	12369.1	16417.8	20666.8	20731.3
67.5°	845.9	865.3	1017.0	1501.3	2666.9	5023.8	10218.8	15697.8	21412.6	21774.2
68°	778.1	784.6	904.0	1249.5	2315.0	4659.0	9708.6	15488.0	21470.7	21916.3
70°	632.8	642.5	684.5	784.6	1252.7	3031.7	7490.5	13705.7	20595.7	21002.5
72.5°	503.7	532.7	558.6	600.5	736.1	1591.7	4659.0	10680.5	17015.1	17060.3
75°	384.2	406.8	458.5	494.0	574.7	875.0	2218.1	6512.2	11164.8	10615.9
77.5°	297.0	316.4	339.0	387.4	481.1	590.8	678.0	2763.7	4742.9	3903.5
80°	177.6	190.5	264.8	303.5	419.7	400.4	268.0	768.4	962.1	758.7
82.5°	103.3	113.0	151.7	232.5	293.8	216.3	158.2	238.9	235.7	206.6
85°	3.2	6.5	83.9	138.8	103.3	58.1	96.9	100.1	83.9	77.5
87.5°	0.0	3.2	22.6	19.4	22.6	12.9	19.4	25.8	32.3	29.1
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°
2243.9	0°	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9	2243.9
2366.6	2.5°	2266.5	2195.5	2037.3	1917.8	1788.7	1711.2	1633.7	1585.3	1559.5	1543.3
2528.1	5°	2324.6	2176.1	1921.1	1695.1	1546.5	1446.4	1346.4	1294.7	1246.3	1220.4
2725.0	7.5°	2453.8	2231.0	1808.1	1562.7	1388.3	1233.4	1107.4	1007.3	949.2	897.6
2980.1	10°	2612.0	2263.3	1811.3	1485.2	1233.4	988.0	810.4	684.5	613.4	568.2
3302.9	12.5°	2773.4	2389.2	1824.2	1407.7	1042.9	742.6	532.7	439.1	397.1	374.5
3603.2	15°	3018.8	2502.2	1791.9	1265.6	791.0	484.3	364.8	332.6	316.4	297.0
3977.7	17.5°	3231.9	2683.0	1775.8	1052.5	542.4	348.7	303.5	268.0	251.8	232.5
4349.0	20°	3519.3	2796.0	1688.6	813.6	374.5	290.6	245.4	213.1	187.3	171.1
4749.4	22.5°	3780.8	2883.2	1533.6	555.3	287.4	229.2	180.8	148.5	125.9	106.5
5149.7	25°	4064.9	2970.4	1307.6	342.2	203.4	142.1	96.9	71.0	48.4	35.5
5479.1	27.5°	4268.3	2996.2	1013.8	203.4	122.7	64.6	22.6	3.2	0.0	0.0
5805.2	30°	4474.9	3005.9	700.6	109.8	48.4	0.0	0.0	0.0	0.0	0.0
6179.7	32.5°	4710.6	3002.7	439.1	58.1	3.2	0.0	0.0	0.0	0.0	0.0
6593.0	35°	4891.4	2947.8	209.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0
7096.6	37.5°	5165.9	2867.1	64.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7664.9	40°	5479.1	2721.8	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8220.2	42.5°	5760.0	2573.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8859.5	45°	6079.6	2389.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9744.1	47.5°	6641.4	2311.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10796.7	50°	7374.3	2250.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11807.3	52.5°	7826.3	2069.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12420.7	55°	8062.0	1882.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13169.8	57.5°	8410.7	1791.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14070.6	60°	8927.3	1798.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15578.4	62.5°	9734.5	1888.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17047.4	65°	10180.0	1798.4	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17402.6	67.5°	9802.3	1440.0	61.3	16.1	3.2	0.0	0.0	0.0	0.0	0.0
17205.6	68°	9476.2	1323.8	61.3	16.1	3.2	0.0	0.0	0.0	0.0	0.0
15575.1	70°	7832.8	862.1	58.1	16.1	6.5	0.0	0.0	0.0	0.0	0.0
12123.7	72.5°	5705.1	477.8	48.4	12.9	6.5	0.0	0.0	0.0	0.0	0.0
7141.8	75°	3319.1	238.9	35.5	12.9	6.5	0.0	0.0	0.0	0.0	0.0
2017.9	77.5°	865.3	119.5	29.1	16.1	9.7	3.2	0.0	0.0	0.0	0.0
368.1	80°	171.1	77.5	25.8	19.4	12.9	6.5	0.0	0.0	0.0	0.0
122.7	82.5°	80.7	54.9	25.8	19.4	16.1	9.7	3.2	0.0	0.0	0.0
54.9	85°	42.0	25.8	25.8	19.4	19.4	12.9	6.5	0.0	0.0	0.0
22.6	87.5°	19.4	9.7	9.7	9.7	9.7	6.5	3.2	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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