

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: P575180

Luminaire Tested: **EPH-VN-08-740-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575180
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-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

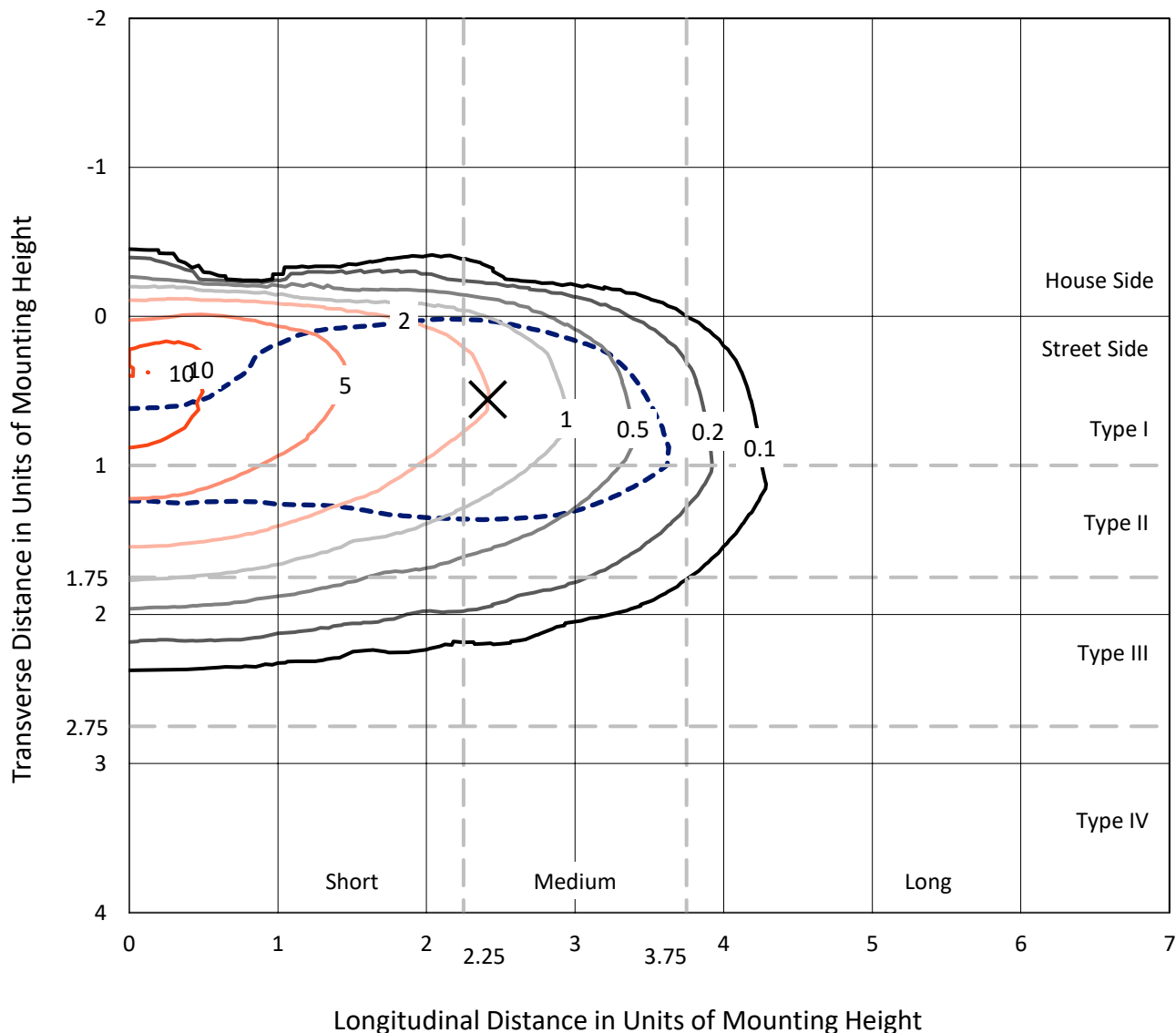
Lumens per Lamp: N/A
Luminaire Lumens: 37872.8 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

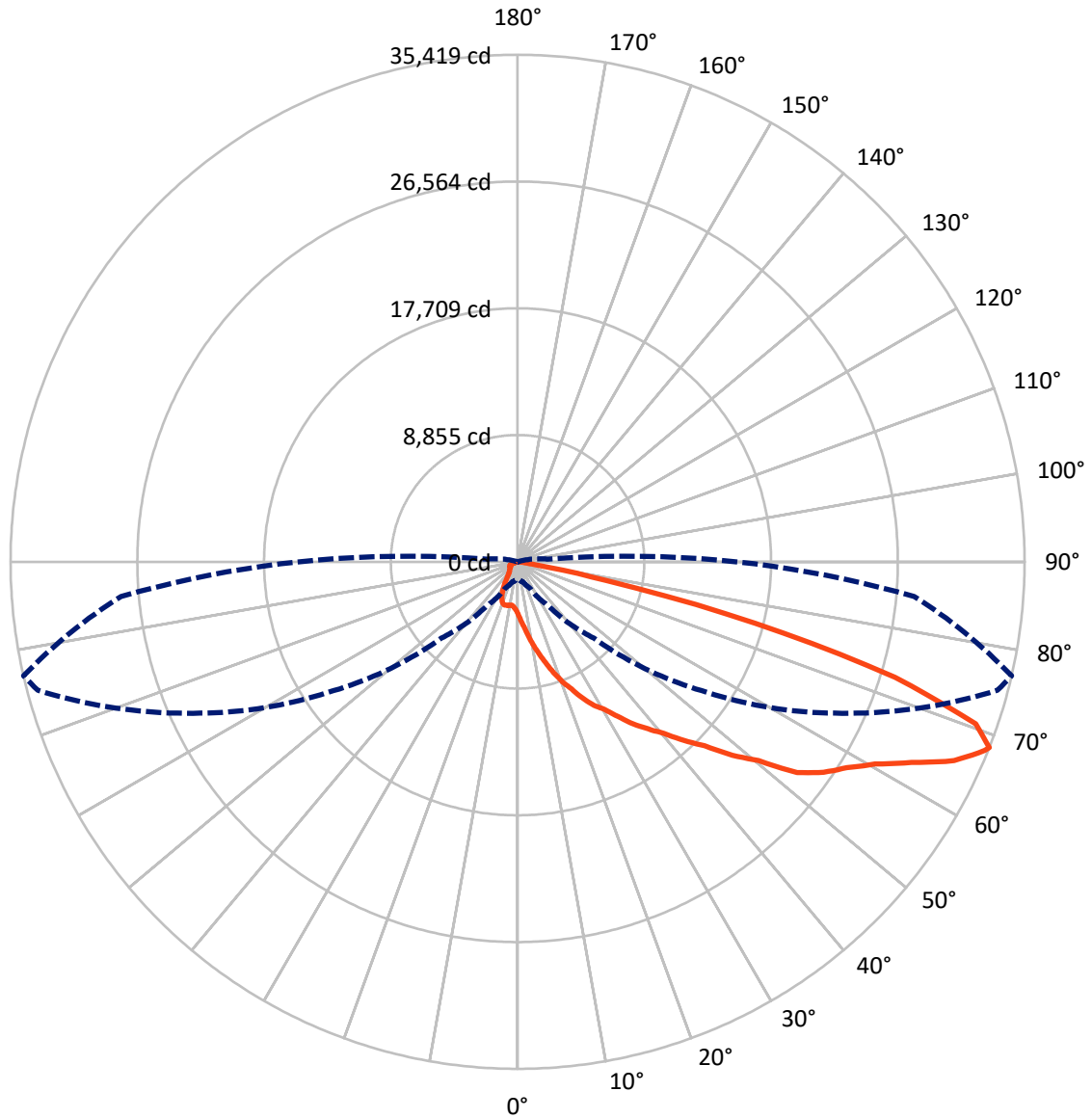
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 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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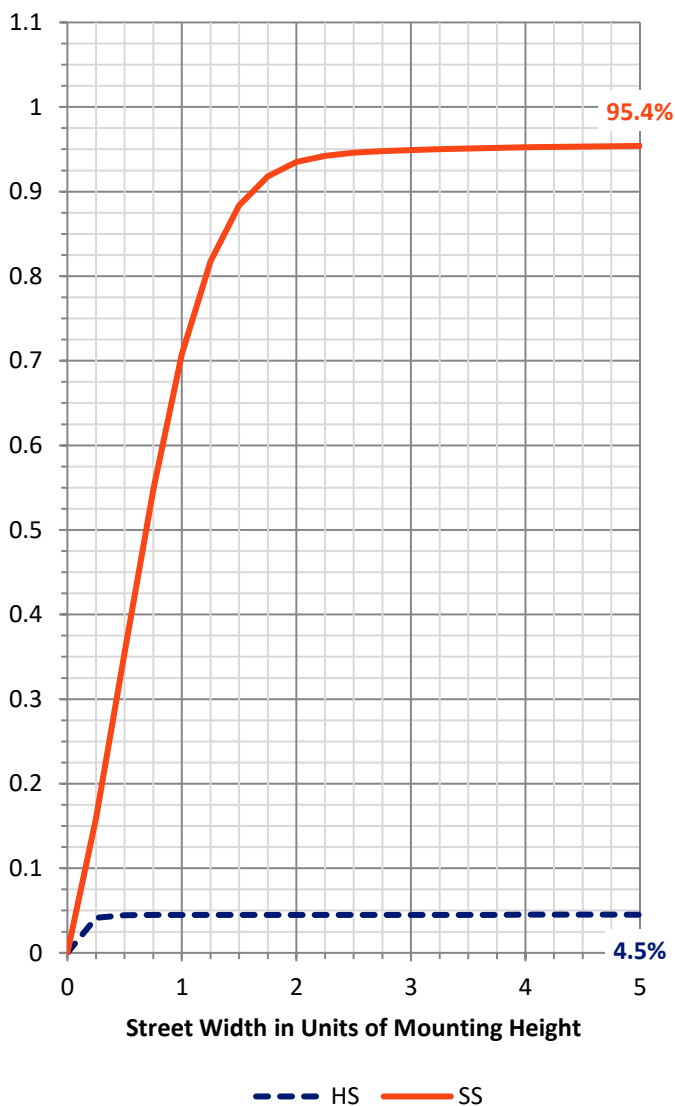
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1717.5	0.0	1717.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	36155.3	0.0	36155.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	37872.8	0.0	37872.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.7	1.1
10°-20°	1562.5	4.1
20°-30°	3028.1	8.0
30°-40°	5279.1	13.9
40°-50°	7731.7	20.4
50°-60°	9083.5	24.0
60°-70°	7670.2	20.3
70°-80°	2973.2	7.9
80°-90°	120.9	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°	37872.8	100.0
0°-180°	37872.8	100.0

Coefficient of Utilization

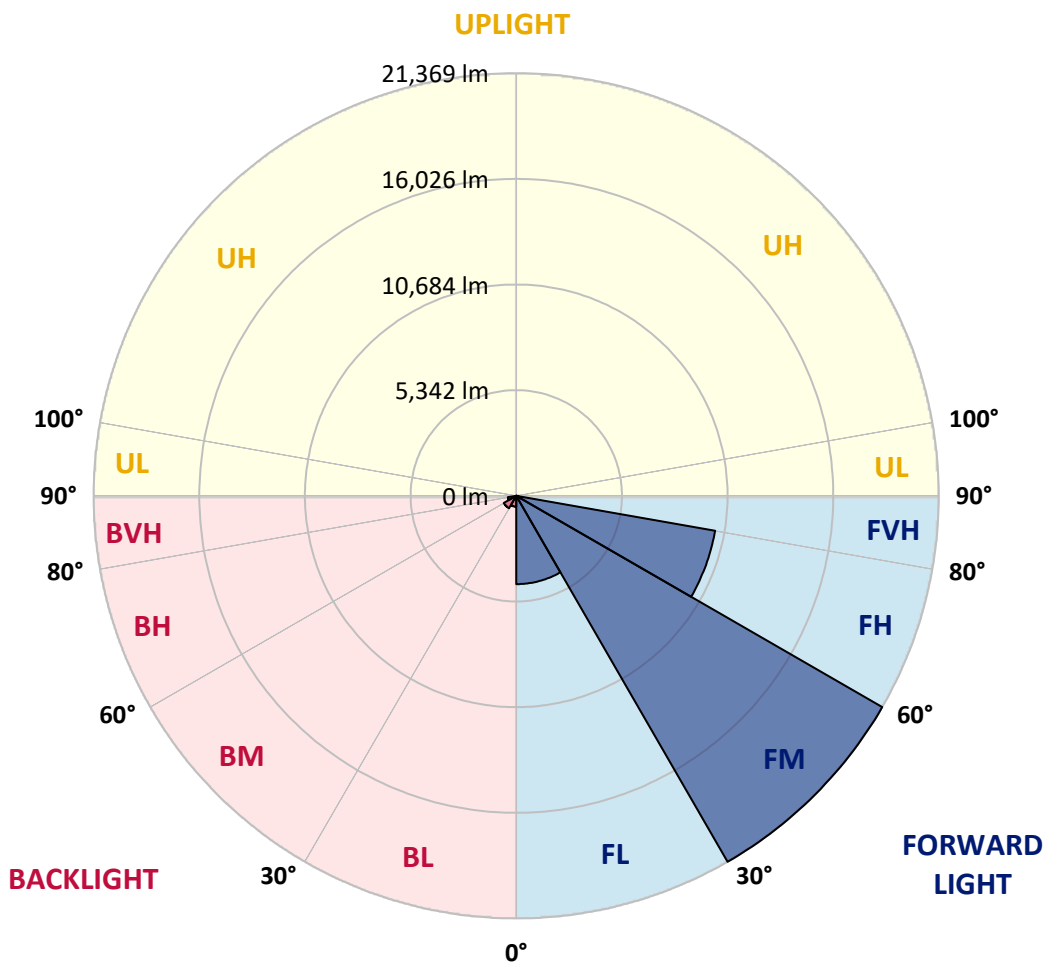


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4465.5	11.8			
FM (30°-60°)	21368.5	56.4			
FH (60°-80°)	10209.7	27.0			G4/12000
FVH (80°-90°)	111.5	0.3			G2/225
BL (0°-30°)	548.7	1.4	B2/1000		
BM (30°-60°)	725.7	1.9	B1/1000		
BH (60°-80°)	433.7	1.1	B1/500		G1/500
BVH (80°-90°)	9.4	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°	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4
2.5°	5510.0	5405.7	5296.1	5264.8	5061.3	4831.7	4617.8	4409.1	4059.5	4064.7
5°	7101.4	6971.0	6882.3	6861.4	6543.1	6146.6	5823.1	5233.5	4654.3	4523.8
7.5°	8411.1	8369.4	8238.9	8129.4	7894.6	7409.3	7028.4	6183.1	5301.3	5155.2
10°	9204.2	9266.8	9324.2	9183.4	9000.7	8651.1	8129.4	7216.2	6037.0	5854.4
12.5°	10049.5	9945.2	9981.7	10096.5	9856.5	9778.2	9131.2	8280.7	6898.0	6548.4
15°	10268.7	10310.4	10399.1	10733.0	10894.8	10670.4	10112.1	9141.6	7790.2	7304.9
17.5°	10414.8	10393.9	10503.5	11004.4	11249.6	11463.5	11113.9	10101.7	8567.7	8134.6
20°	10597.4	10482.6	10722.6	11040.9	11609.6	12058.4	12042.7	11067.0	9381.6	8922.5
22.5°	11275.7	11187.0	11380.1	11411.4	11807.9	12434.1	12585.4	11854.9	10216.5	9653.0
25°	12528.0	12689.7	12460.1	12261.9	12381.9	12794.1	12903.7	12554.1	11056.5	10540.0
27.5°	14359.4	14338.6	13884.6	13628.9	13342.0	13289.8	13368.0	13206.3	11719.2	11348.7
30°	16326.5	16154.4	15736.9	15121.2	14489.9	14098.5	13989.0	13822.0	12496.7	11959.2
32.5°	17891.9	17985.8	17521.4	16717.9	15669.1	15142.1	14615.1	14432.5	13352.4	12877.6
35°	19332.0	19206.8	18836.3	18158.0	17218.8	16368.3	15543.9	15152.5	14380.3	13910.7
37.5°	20396.4	20553.0	19848.6	19201.6	18267.6	17563.2	16754.4	15898.7	15439.5	14813.4
40°	21403.5	21158.2	20683.4	20088.6	19222.4	18685.0	18152.8	16817.0	16566.6	15757.8
42.5°	21226.1	21241.7	20980.8	20500.8	19874.7	19566.8	19384.2	17933.6	17589.3	17072.7
45°	20500.8	20563.4	20652.1	20417.3	20469.5	20161.6	20652.1	19217.2	18878.1	18330.2
47.5°	19702.5	19806.8	19786.0	20213.8	20699.1	20803.4	22029.6	20641.7	20495.6	20192.9
50°	18377.1	18418.9	18820.7	19598.1	20260.8	21351.3	23062.7	22196.6	22420.9	21826.1
52.5°	16112.6	16263.9	17297.1	18408.4	19744.2	21627.8	23761.9	24508.1	25076.8	24466.3
55°	13248.0	13456.7	14474.2	16556.1	18512.8	21210.4	24398.5	25729.0	26882.2	25958.6
57.5°	10660.0	10680.9	11594.0	13743.7	16764.8	20391.2	24722.0	26323.9	27873.6	27132.6
60°	8124.1	8040.7	8859.8	10722.6	13822.0	18377.1	23913.2	26626.5	29110.2	28682.3
62.5°	5228.2	5097.8	5990.1	7805.8	10795.7	15022.1	22295.7	26631.7	31040.8	30879.0
65°	2588.0	2499.3	3266.4	4784.7	7471.9	11489.6	19989.4	26532.6	33399.2	33503.6
67.5°	1367.1	1398.4	1643.6	2426.3	4309.9	8118.9	16514.4	25369.0	34604.5	35188.9
68°	1257.5	1267.9	1461.0	2019.3	3741.2	7529.3	15690.0	25029.9	34698.5	35418.5
70°	1022.7	1038.3	1106.2	1267.9	2024.5	4899.5	12105.3	22149.6	33284.4	33941.9
72.5°	814.0	860.9	902.7	970.5	1189.7	2572.4	7529.3	17260.5	27497.9	27570.9
75°	620.9	657.4	740.9	798.3	928.8	1414.0	3584.6	10524.3	18043.2	17156.2
77.5°	480.0	511.3	547.9	626.1	777.5	954.9	1095.7	4466.4	7665.0	6308.3
80°	287.0	307.9	427.9	490.5	678.3	647.0	433.1	1241.8	1554.9	1226.2
82.5°	167.0	182.6	245.2	375.7	474.8	349.6	255.7	386.1	380.9	333.9
85°	5.2	10.4	135.7	224.4	167.0	93.9	156.5	161.8	135.7	125.2
87.5°	0.0	5.2	36.5	31.3	36.5	20.9	31.3	41.7	52.2	47.0
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°
3626.4	0°	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4	3626.4
3824.7	2.5°	3662.9	3548.1	3292.4	3099.4	2890.7	2765.4	2640.2	2561.9	2520.2	2494.1
4085.5	5°	3756.8	3516.8	3104.6	2739.4	2499.3	2337.6	2175.8	2092.3	2014.1	1972.3
4403.8	7.5°	3965.5	3605.5	2922.0	2525.4	2243.7	1993.2	1789.7	1628.0	1534.0	1450.6
4816.0	10°	4221.2	3657.7	2927.2	2400.2	1993.2	1596.7	1309.7	1106.2	991.4	918.3
5337.8	12.5°	4482.1	3861.2	2948.1	2275.0	1685.4	1200.1	860.9	709.6	641.8	605.3
5823.1	15°	4878.7	4043.8	2895.9	2045.4	1278.4	782.7	589.6	537.4	511.3	480.0
6428.3	17.5°	5223.0	4336.0	2869.8	1701.0	876.6	563.5	490.5	433.1	407.0	375.7
7028.4	20°	5687.4	4518.6	2728.9	1314.9	605.3	469.6	396.6	344.4	302.6	276.5
7675.4	22.5°	6110.1	4659.5	2478.5	897.5	464.4	370.5	292.2	240.0	203.5	172.2
8322.4	25°	6569.2	4800.4	2113.2	553.1	328.7	229.6	156.5	114.8	78.3	57.4
8854.6	27.5°	6898.0	4842.1	1638.4	328.7	198.3	104.4	36.5	5.2	0.0	0.0
9381.6	30°	7231.9	4857.8	1132.3	177.4	78.3	0.0	0.0	0.0	0.0	0.0
9986.9	32.5°	7612.8	4852.6	709.6	93.9	5.2	0.0	0.0	0.0	0.0	0.0
10654.8	35°	7905.0	4763.9	339.2	10.4	0.0	0.0	0.0	0.0	0.0	0.0
11468.8	37.5°	8348.5	4633.4	104.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12387.1	40°	8854.6	4398.6	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13284.6	42.5°	9308.6	4158.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14317.7	45°	9825.1	3861.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15747.4	47.5°	10733.0	3736.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17448.4	50°	11917.5	3636.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19081.5	52.5°	12648.0	3344.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20072.9	55°	13028.9	3042.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21283.5	57.5°	13592.4	2895.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22739.2	60°	14427.3	2906.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25176.0	62.5°	15731.7	3052.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27550.1	65°	16451.8	2906.3	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28124.0	67.5°	15841.3	2327.1	99.1	26.1	5.2	0.0	0.0	0.0	0.0	0.0
27805.7	68°	15314.3	2139.3	99.1	26.1	5.2	0.0	0.0	0.0	0.0	0.0
25170.7	70°	12658.4	1393.2	93.9	26.1	10.4	0.0	0.0	0.0	0.0	0.0
19592.9	72.5°	9219.9	772.2	78.3	20.9	10.4	0.0	0.0	0.0	0.0	0.0
11541.8	75°	5363.9	386.1	57.4	20.9	10.4	0.0	0.0	0.0	0.0	0.0
3261.1	77.5°	1398.4	193.1	47.0	26.1	15.7	5.2	0.0	0.0	0.0	0.0
594.8	80°	276.5	125.2	41.7	31.3	20.9	10.4	0.0	0.0	0.0	0.0
198.3	82.5°	130.4	88.7	41.7	31.3	26.1	15.7	5.2	0.0	0.0	0.0
88.7	85°	67.8	41.7	41.7	31.3	31.3	20.9	10.4	0.0	0.0	0.0
36.5	87.5°	31.3	15.7	15.7	15.7	15.7	10.4	5.2	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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