

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: P575184

Luminaire Tested: **EPH-VN-06-750-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575184
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

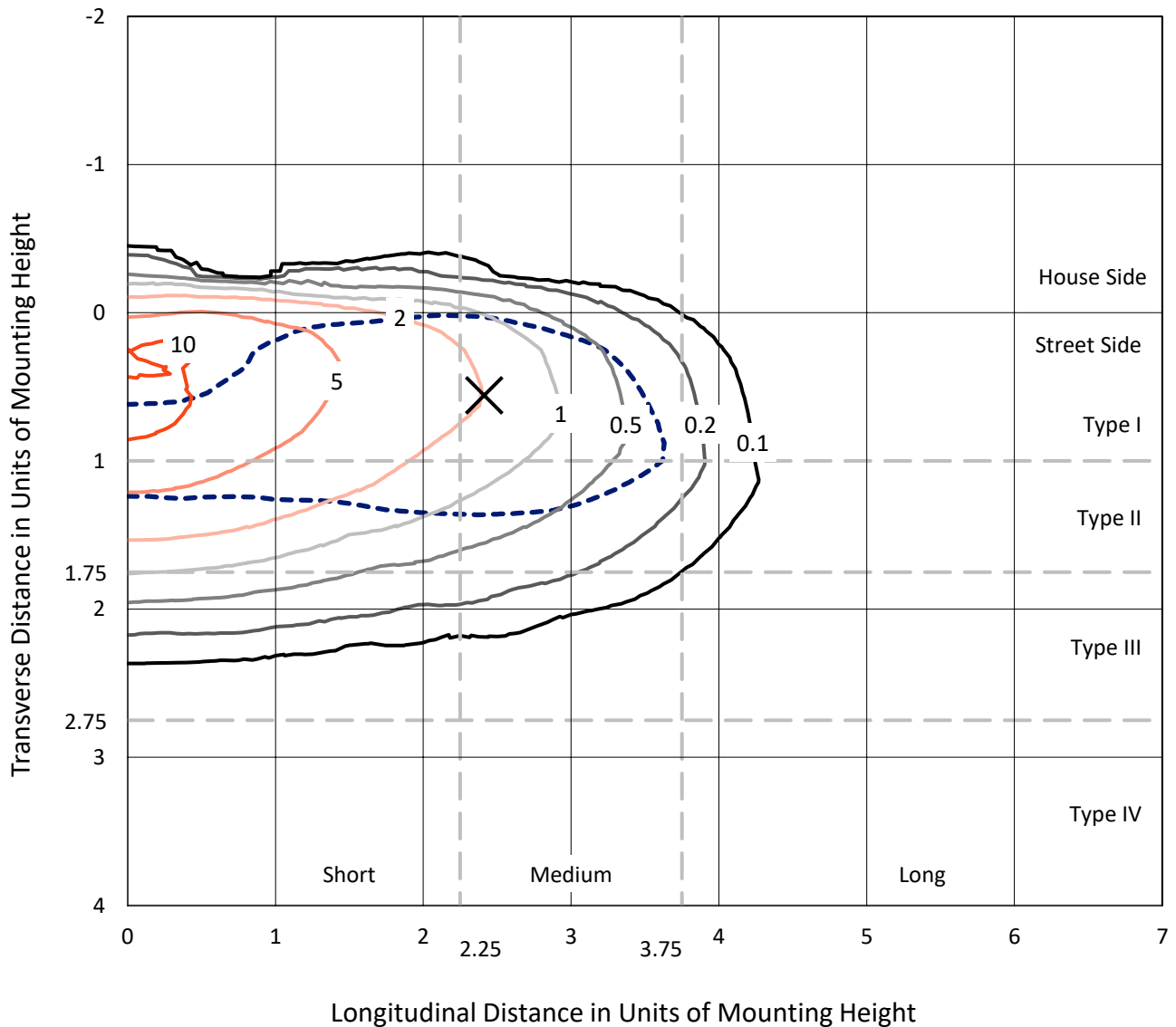
Lumens per Lamp: N/A
Luminaire Lumens: 36770.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

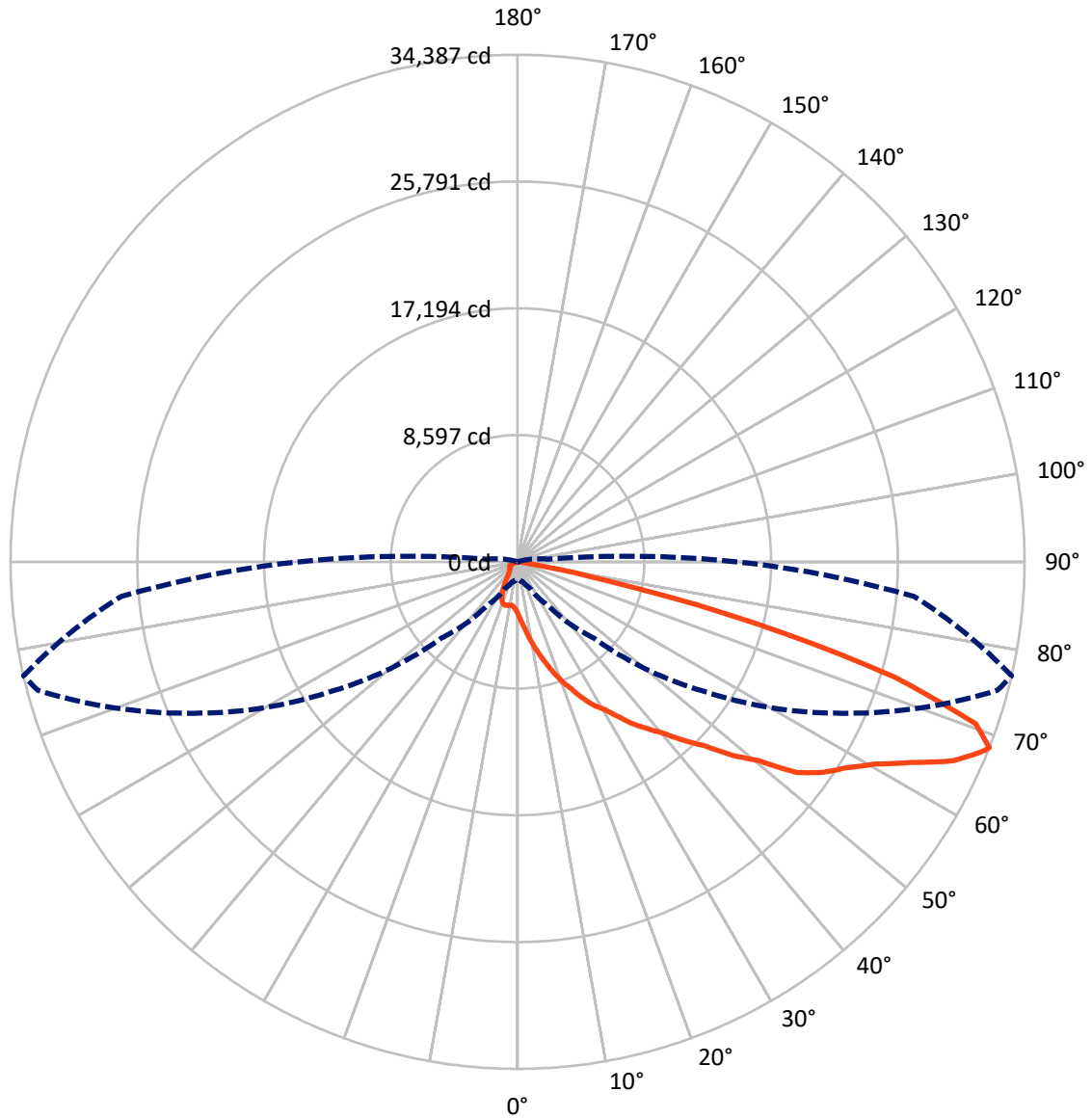
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 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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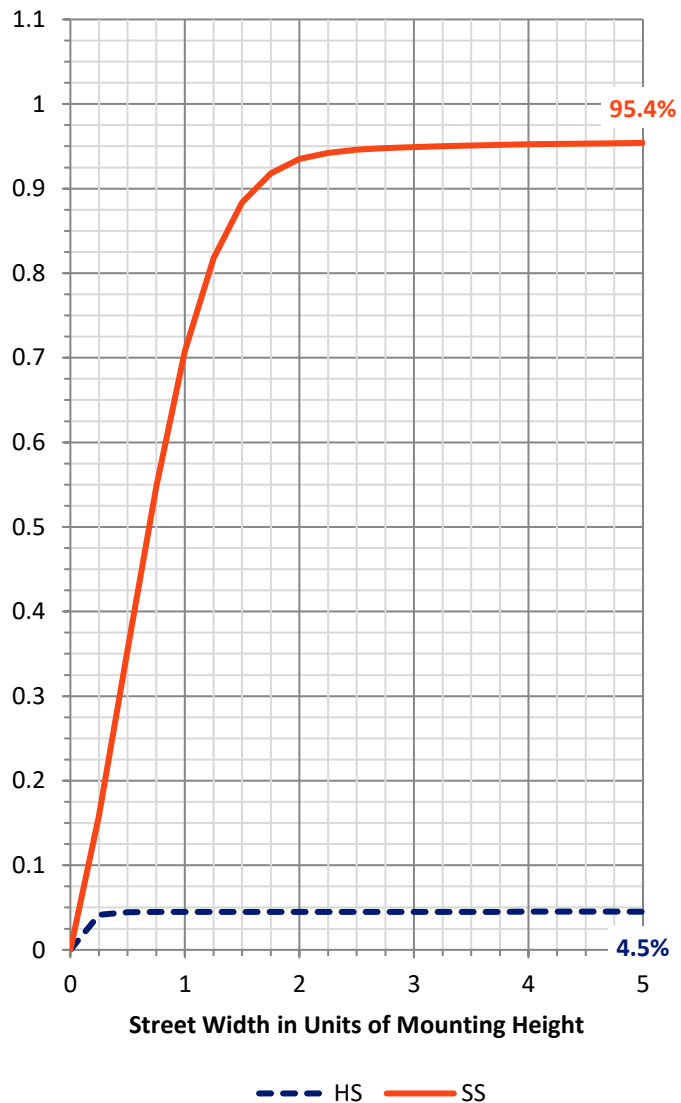
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1667.5	0.0	1667.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	35102.8	0.0	35102.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	36770.3	0.0	36770.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.3	1.1
10°-20°	1517.0	4.1
20°-30°	2940.0	8.0
30°-40°	5125.4	13.9
40°-50°	7506.6	20.4
50°-60°	8819.1	24.0
60°-70°	7446.9	20.3
70°-80°	2886.6	7.9
80°-90°	117.4	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°	36770.3	100.0
0°-180°	36770.3	100.0

Coefficient of Utilization

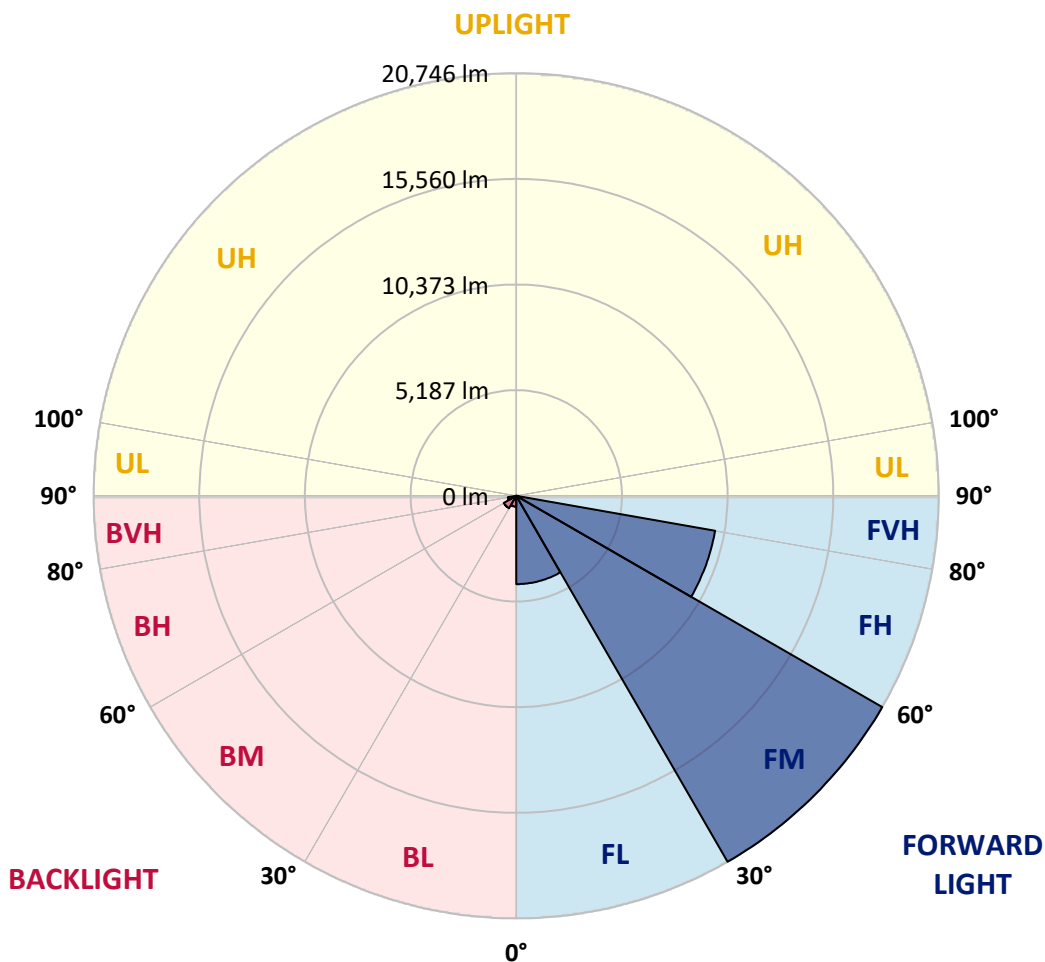


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4335.5	11.8			
FM (30°-60°)	20746.4	56.4			
FH (60°-80°)	9912.5	27.0			G4/12000
FVH (80°-90°)	108.3	0.3			G2/225
BL (0°-30°)	532.8	1.4	B2/1000		
BM (30°-60°)	704.6	1.9	B1/1000		
BH (60°-80°)	421.0	1.1	B1/500		G1/500
BVH (80°-90°)	9.1	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°	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8
2.5°	5349.6	5248.3	5141.9	5111.5	4913.9	4691.0	4483.3	4280.7	3941.3	3946.3
5°	6894.7	6768.1	6681.9	6661.7	6352.6	5967.6	5653.6	5081.1	4518.8	4392.1
7.5°	8166.2	8125.7	7999.1	7892.7	7664.7	7193.6	6823.8	6003.1	5147.0	5005.1
10°	8936.3	8997.1	9052.8	8916.0	8738.7	8399.3	7892.7	7006.2	5861.3	5683.9
12.5°	9756.9	9655.6	9691.1	9802.5	9569.5	9493.5	8865.3	8039.6	6697.1	6357.7
15°	9969.7	10010.2	10096.4	10420.6	10577.6	10359.8	9817.7	8875.5	7563.4	7092.3
17.5°	10111.6	10091.3	10197.7	10684.0	10922.1	11129.8	10790.4	9807.6	8318.2	7897.8
20°	10288.9	10177.4	10410.4	10719.5	11271.6	11707.3	11692.1	10744.8	9108.5	8662.7
22.5°	10947.4	10861.3	11048.7	11079.1	11464.2	12072.1	12219.0	11509.7	9919.0	9371.9
25°	12163.2	12320.3	12097.4	11904.9	12021.4	12421.6	12528.0	12188.6	10734.7	10233.1
27.5°	13941.4	13921.1	13480.4	13232.2	12953.5	12902.9	12978.9	12821.8	11378.0	11018.4
30°	15851.2	15684.1	15278.8	14681.0	14068.0	13688.1	13581.7	13419.6	12132.9	11611.1
32.5°	17371.0	17462.2	17011.3	16231.2	15212.9	14701.3	14189.6	14012.3	12963.7	12502.7
35°	18769.2	18647.6	18287.9	17629.4	16717.5	15891.8	15091.3	14711.4	13961.6	13505.7
37.5°	19802.6	19954.6	19270.7	18642.5	17735.7	17051.8	16266.6	15435.8	14990.0	14382.1
40°	20780.4	20542.3	20081.3	19503.7	18662.8	18141.0	17624.3	16327.4	16084.3	15299.0
42.5°	20608.1	20623.3	20370.0	19904.0	19296.0	18997.2	18819.9	17411.5	17077.2	16575.7
45°	19904.0	19964.7	20050.9	19822.9	19873.6	19574.7	20050.9	18657.7	18328.5	17796.5
47.5°	19128.9	19230.2	19209.9	19625.3	20096.5	20197.8	21388.3	20040.7	19898.9	19605.1
50°	17842.1	17882.7	18272.7	19027.6	19670.9	20729.7	22391.3	21550.4	21768.2	21190.7
52.5°	15643.5	15790.4	16793.5	17872.5	19169.4	20998.2	23070.1	23794.6	24346.8	23754.0
55°	12862.3	13065.0	14052.8	16074.1	17973.8	20592.9	23688.2	24980.0	26099.6	25202.9
57.5°	10349.7	10369.9	11256.4	13343.6	16276.8	19797.6	24002.3	25557.5	27062.1	26342.7
60°	7887.6	7806.6	8601.9	10410.4	13419.6	17842.1	23217.1	25851.3	28262.7	27847.3
62.5°	5076.0	4949.4	5815.7	7578.6	10481.4	14584.8	21646.6	25856.4	30137.1	29980.0
65°	2512.7	2426.6	3171.3	4645.4	7254.4	11155.1	19407.5	25760.1	32426.9	32528.2
67.5°	1327.3	1357.7	1595.8	2355.6	4184.4	7882.6	16033.6	24630.4	33597.1	34164.5
68°	1220.9	1231.0	1418.5	1960.5	3632.3	7310.1	15233.2	24301.2	33688.3	34387.4
70°	992.9	1008.1	1074.0	1231.0	1965.6	4756.9	11752.9	21504.8	32315.4	32953.7
72.5°	790.3	835.9	876.4	942.3	1155.0	2497.5	7310.1	16758.0	26697.3	26768.3
75°	602.8	638.3	719.4	775.1	901.7	1372.9	3480.3	10217.9	17517.9	16656.7
77.5°	466.1	496.5	531.9	607.9	754.8	927.1	1063.8	4336.4	7441.8	6124.7
80°	278.6	298.9	415.4	476.2	658.6	628.2	420.5	1205.7	1509.6	1190.5
82.5°	162.1	177.3	238.1	364.7	461.0	339.4	248.2	374.9	369.8	324.2
85°	5.1	10.1	131.7	217.8	162.1	91.2	152.0	157.0	131.7	121.6
87.5°	0.0	5.1	35.5	30.4	35.5	20.3	30.4	40.5	50.7	45.6
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°
3520.8	0°	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8
3713.3	2.5°	3556.3	3444.8	3196.6	3009.1	2806.5	2684.9	2563.3	2487.4	2446.8	2421.5
3966.6	5°	3647.5	3414.4	3014.2	2659.6	2426.6	2269.5	2112.5	2031.4	1955.4	1914.9
4275.6	7.5°	3850.1	3500.5	2836.9	2451.9	2178.3	1935.2	1737.6	1580.6	1489.4	1408.3
4675.8	10°	4098.3	3551.2	2842.0	2330.3	1935.2	1550.2	1271.5	1074.0	962.5	891.6
5182.4	12.5°	4351.6	3748.8	2862.2	2208.7	1636.3	1165.2	835.9	689.0	623.1	587.6
5653.6	15°	4736.6	3926.1	2811.6	1985.8	1241.1	759.9	572.4	521.8	496.5	466.1
6241.2	17.5°	5071.0	4209.8	2786.2	1651.5	851.1	547.1	476.2	420.5	395.1	364.7
6823.8	20°	5521.8	4387.1	2649.5	1276.6	587.6	455.9	385.0	334.3	293.8	268.5
7452.0	22.5°	5932.2	4523.9	2406.3	871.3	450.9	359.7	283.7	233.0	197.6	167.2
8080.1	25°	6378.0	4660.6	2051.7	537.0	319.2	222.9	152.0	111.4	76.0	55.7
8596.8	27.5°	6697.1	4701.2	1590.7	319.2	192.5	101.3	35.5	5.1	0.0	0.0
9108.5	30°	7021.3	4716.4	1099.3	172.2	76.0	0.0	0.0	0.0	0.0	0.0
9696.1	32.5°	7391.2	4711.3	689.0	91.2	5.1	0.0	0.0	0.0	0.0	0.0
10344.6	35°	7674.9	4625.2	329.3	10.1	0.0	0.0	0.0	0.0	0.0	0.0
11134.9	37.5°	8105.5	4498.5	101.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12026.5	40°	8596.8	4270.6	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12897.8	42.5°	9037.6	4037.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13900.9	45°	9539.1	3748.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15288.9	47.5°	10420.6	3627.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16940.4	50°	11570.5	3530.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18526.0	52.5°	12279.8	3247.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19488.6	55°	12649.6	2953.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20663.8	57.5°	13196.7	2811.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22077.2	60°	14007.2	2821.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24443.0	62.5°	15273.7	2963.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26748.0	65°	15972.8	2821.7	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27305.2	67.5°	15380.1	2259.4	96.3	25.3	5.1	0.0	0.0	0.0	0.0	0.0
26996.2	68°	14868.4	2077.0	96.3	25.3	5.1	0.0	0.0	0.0	0.0	0.0
24437.9	70°	12289.9	1352.6	91.2	25.3	10.1	0.0	0.0	0.0	0.0	0.0
19022.5	72.5°	8951.5	749.8	76.0	20.3	10.1	0.0	0.0	0.0	0.0	0.0
11205.8	75°	5207.8	374.9	55.7	20.3	10.1	0.0	0.0	0.0	0.0	0.0
3166.2	77.5°	1357.7	187.4	45.6	25.3	15.2	5.1	0.0	0.0	0.0	0.0
577.5	80°	268.5	121.6	40.5	30.4	20.3	10.1	0.0	0.0	0.0	0.0
192.5	82.5°	126.6	86.1	40.5	30.4	25.3	15.2	5.1	0.0	0.0	0.0
86.1	85°	65.9	40.5	40.5	30.4	30.4	20.3	10.1	0.0	0.0	0.0
35.5	87.5°	30.4	15.2	15.2	15.2	15.2	10.1	5.1	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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