

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: P575174

Luminaire Tested: **EPH-VN-08-735-U-T2R-HSS**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P575174
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

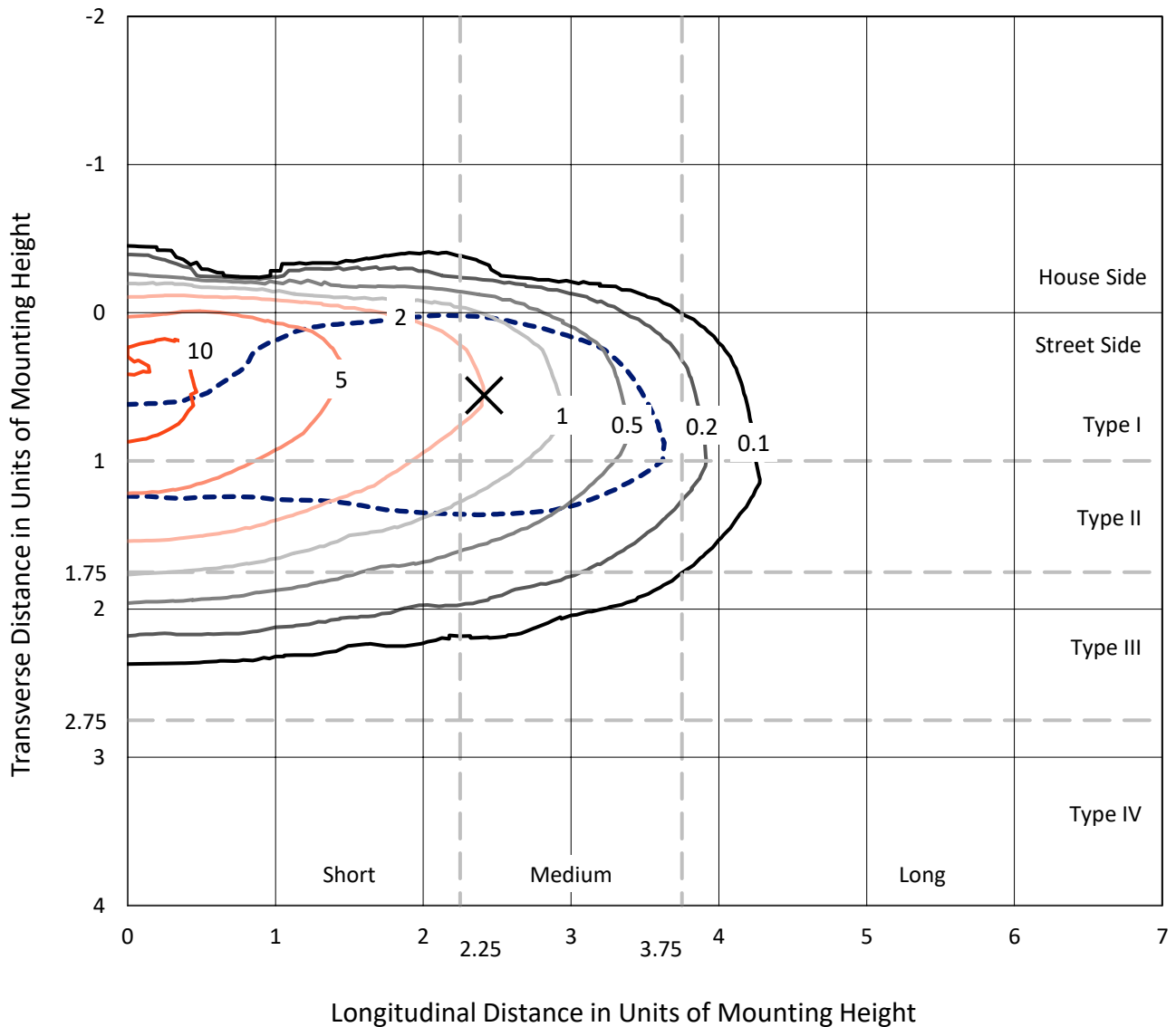
Lumens per Lamp: N/A
Luminaire Lumens: 37354 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

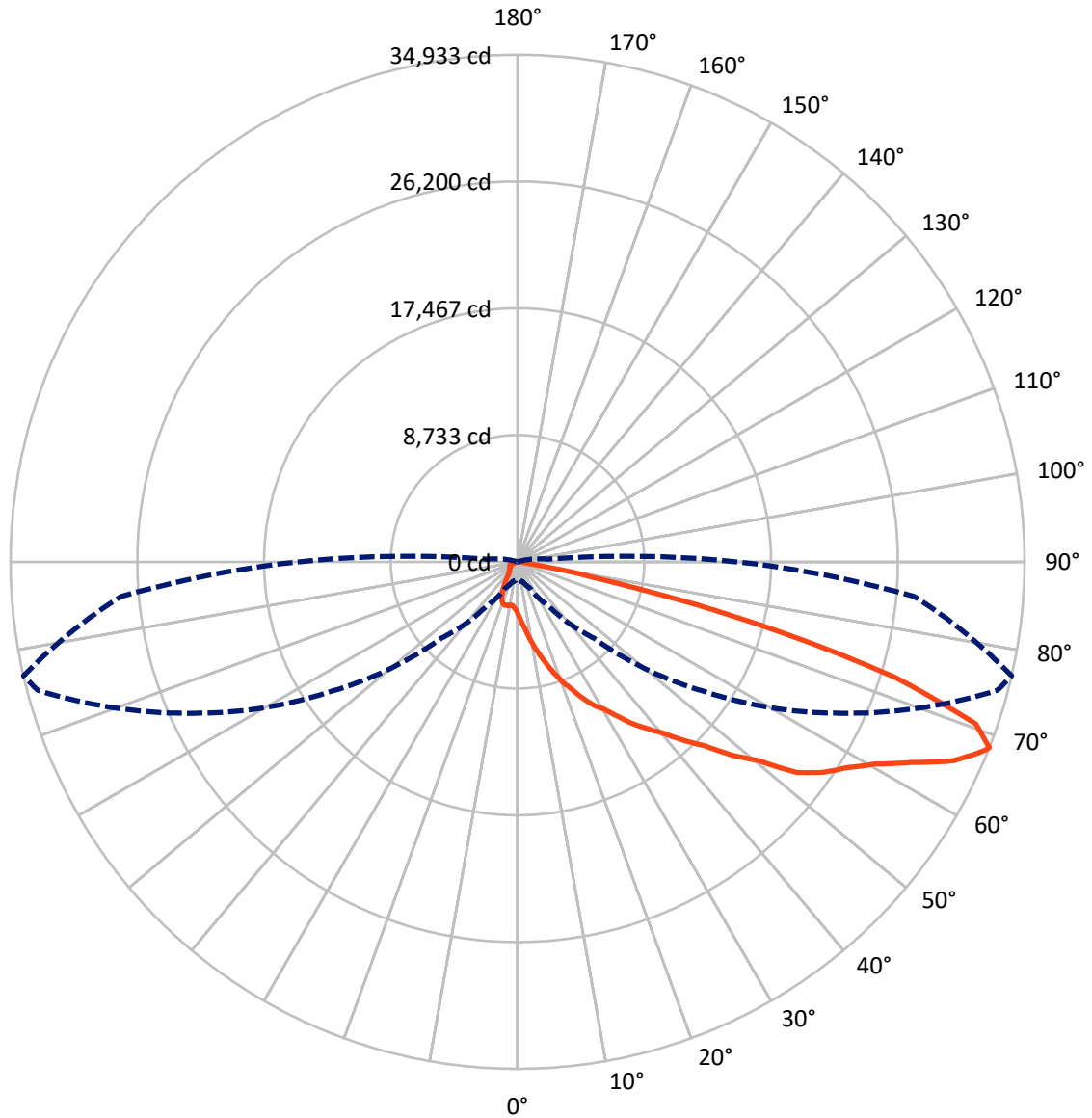
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 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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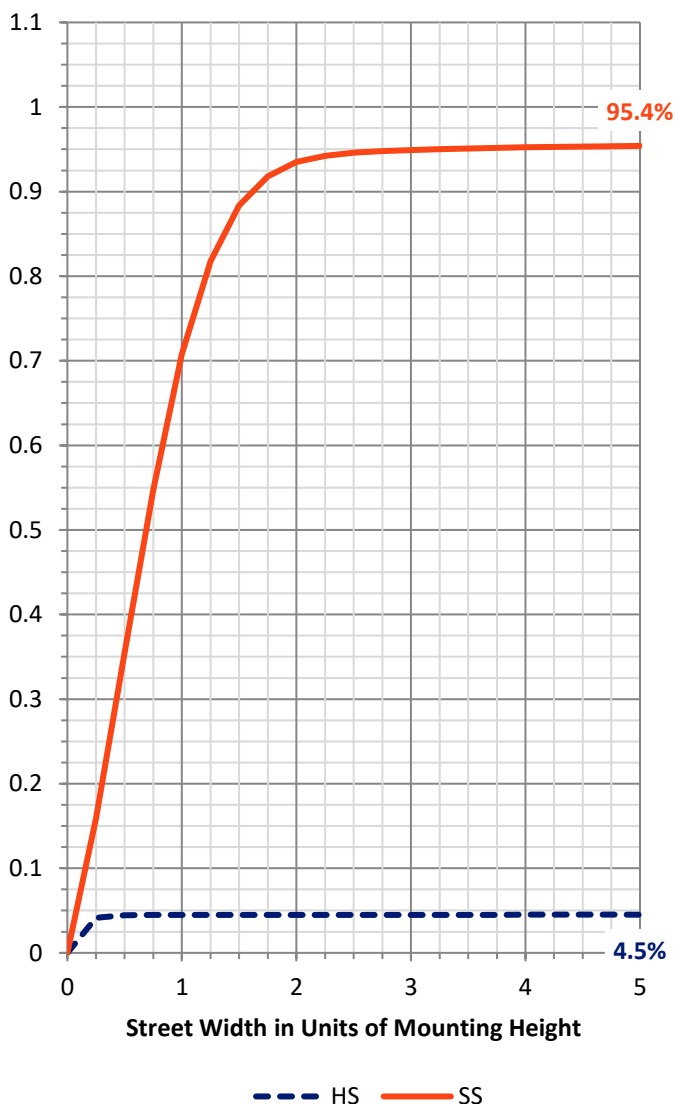
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1694.0	0.0	1694.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	35660.0	0.0	35660.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	37354.0	0.0	37354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	1.1
10°-20°	1541.1	4.1
20°-30°	2986.6	8.0
30°-40°	5206.7	13.9
40°-50°	7625.8	20.4
50°-60°	8959.1	24.0
60°-70°	7565.1	20.3
70°-80°	2932.4	7.9
80°-90°	119.2	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°	37354.0	100.0
0°-180°	37354.0	100.0

Coefficient of Utilization



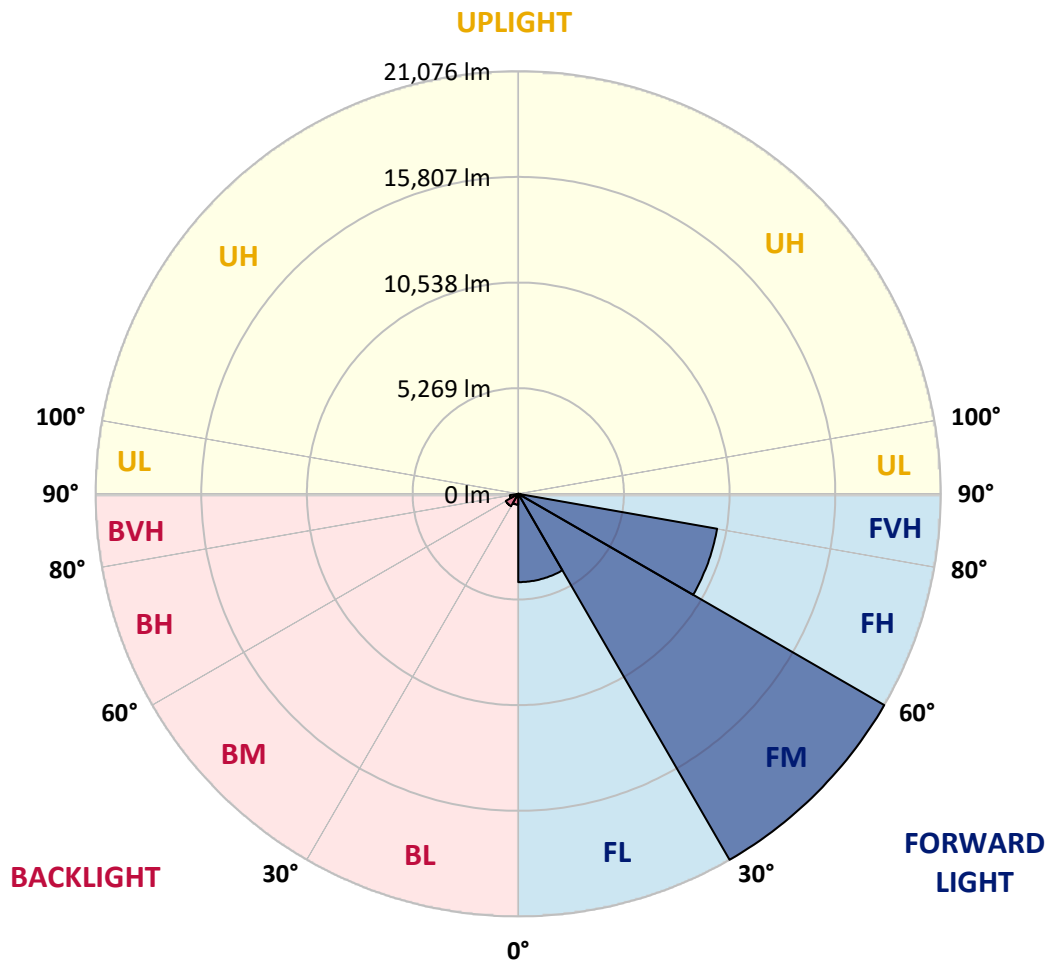
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4404.4	11.8			
FM (30°-60°)	21075.8	56.4			
FH (60°-80°)	10069.9	27.0			G4/12000
FVH (80°-90°)	110.0	0.3			G2/225
BL (0°-30°)	541.2	1.4	B2/1000		
BM (30°-60°)	715.8	1.9	B1/1000		
BH (60°-80°)	427.7	1.1	B1/500		G1/500
BVH (80°-90°)	9.2	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°	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7
2.5°	5434.5	5331.6	5223.5	5192.6	4991.9	4765.5	4554.5	4348.6	4003.8	4009.0
5°	7004.2	6875.5	6788.0	6767.4	6453.5	6062.4	5743.3	5161.8	4590.5	4461.9
7.5°	8295.9	8254.7	8126.1	8018.0	7786.4	7307.8	6932.1	6098.4	5228.7	5084.6
10°	9078.1	9139.9	9196.5	9057.5	8877.4	8532.6	8018.0	7117.4	5954.3	5774.2
12.5°	9911.8	9808.9	9844.9	9958.1	9721.4	9644.2	9006.1	8167.2	6803.4	6458.6
15°	10128.0	10169.1	10256.6	10586.0	10745.5	10524.2	9973.6	9016.4	7683.5	7204.9
17.5°	10272.1	10251.5	10359.6	10853.6	11095.5	11306.5	10961.7	9963.3	8450.3	8023.1
20°	10452.2	10339.0	10575.7	10889.6	11450.6	11893.2	11877.7	10915.4	9253.1	8800.2
22.5°	11121.2	11033.7	11224.1	11255.0	11646.1	12263.7	12412.9	11692.5	10076.5	9520.7
25°	12356.3	12515.9	12289.4	12093.9	12212.2	12618.8	12726.9	12382.1	10905.1	10395.6
27.5°	14162.7	14142.1	13694.4	13442.2	13159.2	13107.7	13184.9	13025.4	11558.7	11193.3
30°	16102.9	15933.0	15521.3	14914.1	14291.4	13905.4	13797.3	13632.6	12325.5	11795.4
32.5°	17646.8	17739.4	17281.4	16488.8	15454.4	14934.6	14414.9	14234.7	13169.5	12701.1
35°	19067.2	18943.6	18578.3	17909.2	16982.9	16144.0	15330.9	14944.9	14183.3	13720.1
37.5°	20117.0	20271.4	19576.6	18938.5	18017.3	17322.5	16524.9	15680.9	15228.0	14610.4
40°	21110.2	20868.4	20400.1	19813.4	18959.1	18429.0	17904.1	16586.6	16339.6	15541.9
42.5°	20935.3	20950.7	20693.4	20219.9	19602.4	19298.7	19118.6	17687.9	17348.3	16838.8
45°	20219.9	20281.7	20369.2	20137.6	20189.1	19885.4	20369.2	18953.9	18619.4	18079.1
47.5°	19432.5	19535.5	19514.9	19936.9	20415.5	20518.4	21727.8	20358.9	20214.8	19916.3
50°	18125.4	18166.5	18562.8	19329.6	19983.2	21058.8	22746.8	21892.5	22113.8	21527.1
52.5°	15891.9	16041.1	17060.1	18156.3	19473.7	21331.5	23436.4	24172.3	24733.3	24131.1
55°	13066.5	13272.4	14275.9	16329.3	18259.2	20919.8	24064.2	25376.6	26513.9	25603.0
57.5°	10514.0	10534.5	11435.1	13555.4	16535.2	20111.9	24383.3	25963.2	27491.7	26760.9
60°	8012.8	7930.5	8738.5	10575.7	13632.6	18125.4	23585.6	26261.7	28711.4	28289.4
62.5°	5156.6	5028.0	5908.0	7698.9	10647.8	14816.3	21990.3	26266.9	30615.5	30456.0
65°	2552.6	2465.1	3221.6	4719.2	7369.5	11332.2	19715.6	26169.1	32941.7	33044.6
67.5°	1348.3	1379.2	1621.1	2393.0	4250.9	8007.7	16288.1	25021.5	34130.5	34706.8
68°	1240.3	1250.6	1441.0	1991.6	3689.9	7426.2	15475.0	24686.9	34223.1	34933.3
70°	1008.7	1024.1	1091.0	1250.6	1996.8	4832.4	11939.5	21846.2	32828.4	33476.9
72.5°	802.8	849.1	890.3	957.2	1173.4	2537.1	7426.2	17024.1	27121.2	27193.2
75°	612.4	648.4	730.8	787.4	916.0	1394.7	3535.5	10380.1	17796.0	16921.1
77.5°	473.5	504.3	540.4	617.6	766.8	941.8	1080.7	4405.3	7560.0	6221.9
80°	283.0	303.6	422.0	483.8	669.0	638.1	427.1	1224.8	1533.6	1209.4
82.5°	164.7	180.1	241.9	370.5	468.3	344.8	252.2	380.8	375.7	329.4
85°	5.1	10.3	133.8	221.3	164.7	92.6	154.4	159.5	133.8	123.5
87.5°	0.0	5.1	36.0	30.9	36.0	20.6	30.9	41.2	51.5	46.3
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°
3576.7	0°	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7	3576.7
3772.3	2.5°	3612.7	3499.5	3247.3	3056.9	2851.1	2727.6	2604.0	2526.8	2485.7	2459.9
4029.6	5°	3705.4	3468.6	3062.1	2701.8	2465.1	2305.6	2146.0	2063.7	1986.5	1945.3
4343.5	7.5°	3911.2	3556.1	2881.9	2490.8	2212.9	1965.9	1765.2	1605.7	1513.0	1430.7
4750.1	10°	4163.4	3607.6	2887.1	2367.3	1965.9	1574.8	1291.7	1091.0	977.8	905.8
5264.7	12.5°	4420.7	3808.3	2907.7	2243.8	1662.3	1183.7	849.1	699.9	633.0	597.0
5743.3	15°	4811.8	3988.4	2856.2	2017.4	1260.9	771.9	581.5	530.1	504.3	473.5
6340.3	17.5°	5151.5	4276.6	2830.5	1677.7	864.6	555.8	483.8	427.1	401.4	370.5
6932.1	20°	5609.5	4456.7	2691.5	1296.9	597.0	463.2	391.1	339.7	298.5	272.8
7570.3	22.5°	6026.4	4595.7	2444.5	885.2	458.0	365.4	288.2	236.7	200.7	169.8
8208.4	25°	6479.2	4734.6	2084.3	545.5	324.2	226.4	154.4	113.2	77.2	56.6
8733.3	27.5°	6803.4	4775.8	1615.9	324.2	195.6	102.9	36.0	5.1	0.0	0.0
9253.1	30°	7132.8	4791.2	1116.8	175.0	77.2	0.0	0.0	0.0	0.0	0.0
9850.1	32.5°	7508.5	4786.1	699.9	92.6	5.1	0.0	0.0	0.0	0.0	0.0
10508.8	35°	7796.7	4698.6	334.5	10.3	0.0	0.0	0.0	0.0	0.0	0.0
11311.6	37.5°	8234.1	4569.9	102.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12217.4	40°	8733.3	4338.4	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13102.6	42.5°	9181.1	4101.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14121.5	45°	9690.5	3808.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15531.6	47.5°	10586.0	3684.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17209.3	50°	11754.2	3587.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18820.1	52.5°	12474.7	3298.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19797.9	55°	12850.4	3000.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20991.9	57.5°	13406.2	2856.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22427.7	60°	14229.6	2866.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24831.0	62.5°	15516.2	3010.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27172.6	65°	16226.4	2866.5	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27738.7	67.5°	15624.3	2295.3	97.8	25.7	5.1	0.0	0.0	0.0	0.0	0.0
27424.8	68°	15104.5	2110.0	97.8	25.7	5.1	0.0	0.0	0.0	0.0	0.0
24825.9	70°	12485.0	1374.1	92.6	25.7	10.3	0.0	0.0	0.0	0.0	0.0
19324.5	72.5°	9093.6	761.7	77.2	20.6	10.3	0.0	0.0	0.0	0.0	0.0
11383.7	75°	5290.4	380.8	56.6	20.6	10.3	0.0	0.0	0.0	0.0	0.0
3216.5	77.5°	1379.2	190.4	46.3	25.7	15.4	5.1	0.0	0.0	0.0	0.0
586.7	80°	272.8	123.5	41.2	30.9	20.6	10.3	0.0	0.0	0.0	0.0
195.6	82.5°	128.7	87.5	41.2	30.9	25.7	15.4	5.1	0.0	0.0	0.0
87.5	85°	66.9	41.2	41.2	30.9	30.9	20.6	10.3	0.0	0.0	0.0
36.0	87.5°	30.9	15.4	15.4	15.4	15.4	10.3	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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