

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: P575185

Luminaire Tested: **EPH-VN-07-750-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575185
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-750-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

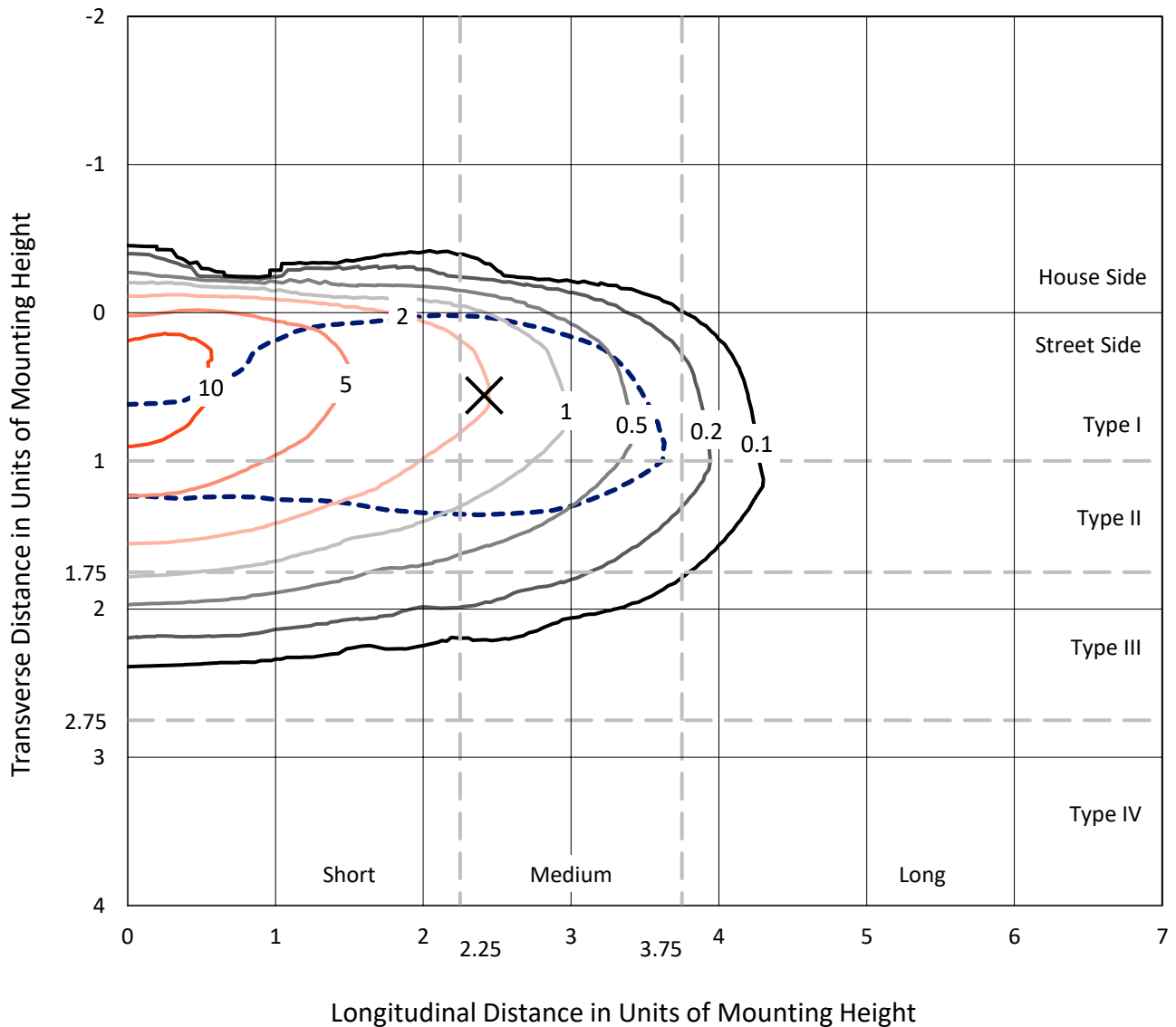
Lumens per Lamp: N/A
Luminaire Lumens: 39229.2 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.5
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

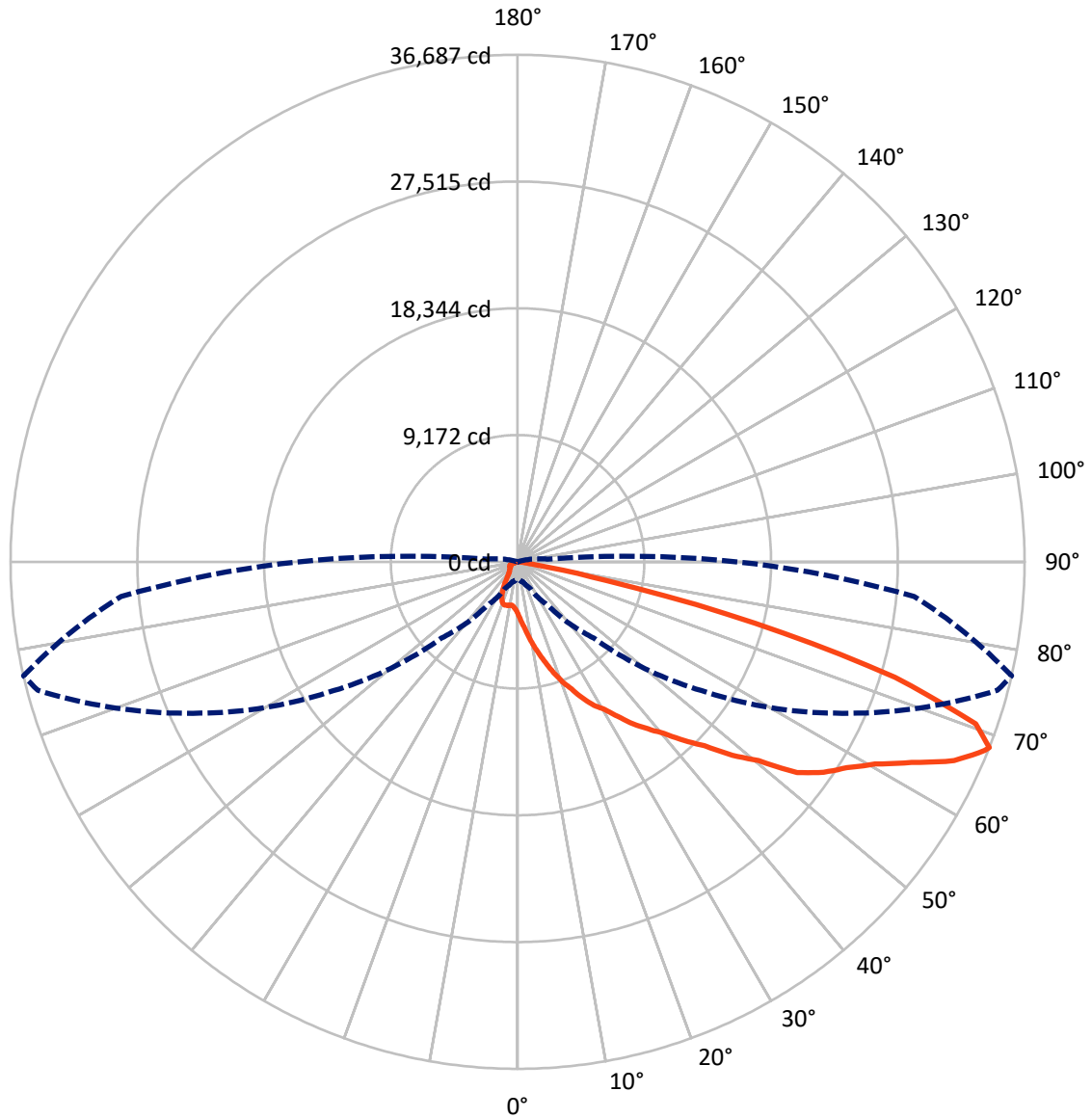
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 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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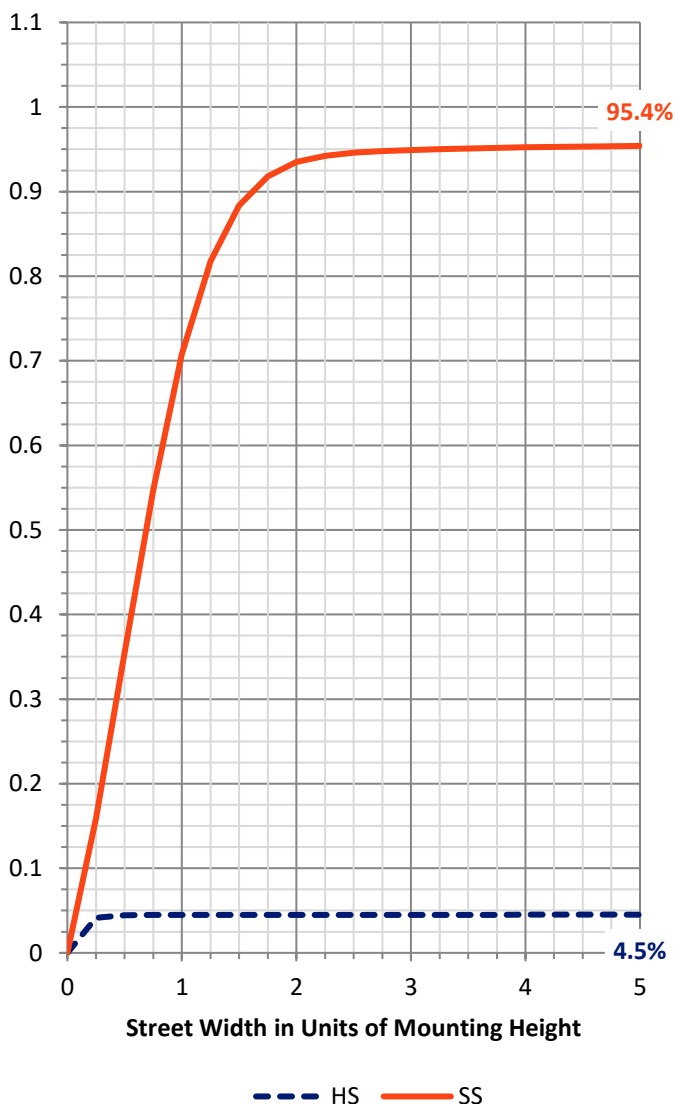
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1779.0	0.0	1779.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	37450.2	0.0	37450.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	39229.2	0.0	39229.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.8	1.1
10°-20°	1618.4	4.1
20°-30°	3136.6	8.0
30°-40°	5468.1	13.9
40°-50°	8008.6	20.4
50°-60°	9408.8	24.0
60°-70°	7944.9	20.3
70°-80°	3079.6	7.9
80°-90°	125.2	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°	39229.2	100.0
0°-180°	39229.2	100.0

Coefficient of Utilization

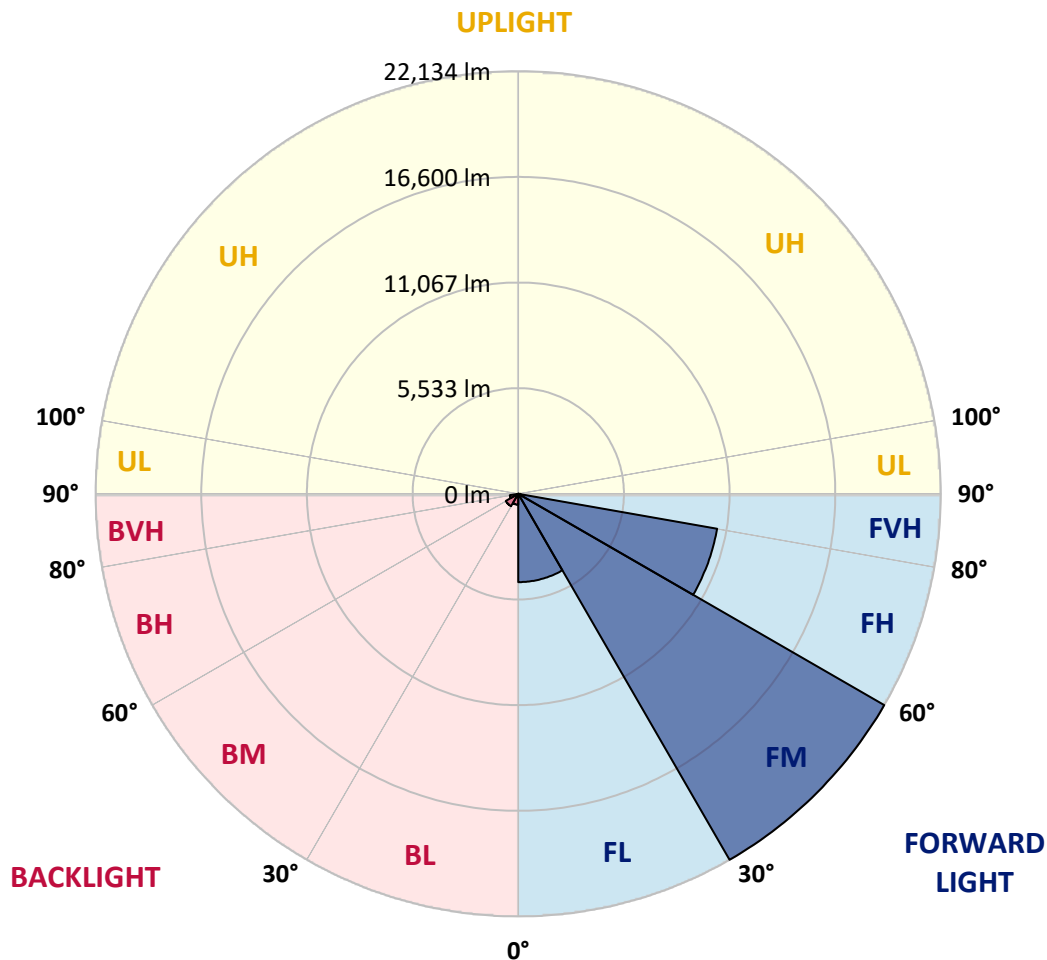


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4625.5	11.8			
FM (30°-60°)	22133.8	56.4			
FH (60°-80°)	10575.4	27.0			G4/12000
FVH (80°-90°)	115.5	0.3			G2/225
BL (0°-30°)	568.4	1.4	B2/1000		
BM (30°-60°)	751.7	1.9	B1/1000		
BH (60°-80°)	449.2	1.1	B1/500		G1/500
BVH (80°-90°)	9.7	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°	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3
2.5°	5707.3	5599.3	5485.8	5453.3	5242.5	5004.7	4783.1	4567.0	4204.8	4210.2
5°	7355.8	7220.7	7128.8	7107.2	6777.5	6366.7	6031.6	5420.9	4821.0	4685.9
7.5°	8712.3	8669.1	8534.0	8420.5	8177.3	7674.6	7280.1	6404.5	5491.2	5339.8
10°	9533.9	9598.7	9658.2	9512.2	9323.1	8961.0	8420.5	7474.7	6253.2	6064.1
12.5°	10409.4	10301.3	10339.2	10458.1	10209.4	10128.4	9458.2	8577.2	7145.0	6782.9
15°	10636.4	10679.7	10771.5	11117.4	11285.0	11052.6	10474.3	9469.0	8069.2	7566.6
17.5°	10787.7	10766.1	10879.6	11398.5	11652.5	11874.1	11512.0	10463.5	8874.5	8425.9
20°	10976.9	10858.0	11106.6	11436.3	12025.4	12490.2	12474.0	11463.3	9717.6	9242.0
22.5°	11679.5	11587.6	11787.6	11820.0	12230.8	12879.4	13036.1	12279.4	10582.4	9998.7
25°	12976.6	13144.2	12906.4	12701.0	12825.3	13252.3	13365.8	13003.7	11452.5	10917.5
27.5°	14873.7	14852.1	14381.9	14117.0	13819.8	13765.7	13846.8	13679.3	12138.9	11755.2
30°	16911.3	16732.9	16300.5	15662.8	15008.8	14603.5	14490.0	14317.0	12944.2	12387.5
32.5°	18532.7	18629.9	18148.9	17316.6	16230.3	15684.4	15138.5	14949.4	13830.6	13338.8
35°	20024.4	19894.6	19510.9	18808.3	17835.5	16954.5	16100.6	15695.2	14895.3	14408.9
37.5°	21126.9	21289.0	20559.4	19889.2	18921.8	18192.2	17354.4	16468.1	15992.5	15343.9
40°	22170.0	21916.0	21424.2	20808.0	19910.9	19354.2	18802.9	17419.3	17159.9	16322.1
42.5°	21986.3	22002.5	21732.2	21235.0	20586.4	20267.6	20078.4	18575.9	18219.2	17684.1
45°	21235.0	21299.9	21391.7	21148.5	21202.6	20883.7	21391.7	19905.4	19554.1	18986.7
47.5°	20408.1	20516.2	20494.6	20937.7	21440.4	21548.5	22818.6	21380.9	21229.6	20916.1
50°	19035.3	19078.5	19494.7	20300.0	20986.4	22116.0	23888.7	22991.5	23223.9	22607.8
52.5°	16689.7	16846.4	17916.5	19067.7	20451.3	22402.4	24612.9	25385.8	25974.9	25342.6
55°	13722.5	13938.7	14992.6	17149.1	19175.8	21970.0	25272.3	26650.5	27844.9	26888.3
57.5°	11041.8	11063.4	12009.2	14235.9	17365.2	21121.5	25607.4	27266.6	28871.8	28104.4
60°	8415.1	8328.6	9177.2	11106.6	14317.0	19035.3	24769.7	27580.1	30152.7	29709.5
62.5°	5415.5	5280.4	6204.6	8085.4	11182.3	15560.1	23094.2	27585.5	32152.5	31984.9
65°	2680.7	2588.8	3383.3	4956.1	7739.5	11901.1	20705.3	27482.8	34595.4	34703.5
67.5°	1416.0	1448.5	1702.5	2513.2	4464.3	8409.7	17105.8	26277.6	35843.9	36449.2
68°	1302.5	1313.3	1513.3	2091.6	3875.2	7799.0	16251.9	25926.3	35941.1	36687.0
70°	1059.3	1075.5	1145.8	1313.3	2097.0	5075.0	12538.9	22942.9	34476.5	35157.5
72.5°	843.1	891.8	935.0	1005.3	1232.3	2664.5	7799.0	17878.7	28482.7	28558.3
75°	643.2	681.0	767.5	826.9	962.0	1464.7	3713.0	10901.2	18689.4	17770.6
77.5°	497.2	529.7	567.5	648.6	805.3	989.1	1135.0	4626.4	7939.5	6534.3
80°	297.3	318.9	443.2	508.0	702.6	670.2	448.6	1286.3	1610.6	1270.1
82.5°	172.9	189.2	254.0	389.1	491.8	362.1	264.8	399.9	394.5	345.9
85°	5.4	10.8	140.5	232.4	172.9	97.3	162.1	167.5	140.5	129.7
87.5°	0.0	5.4	37.8	32.4	37.8	21.6	32.4	43.2	54.0	48.6
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°
3756.3	0°	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3	3756.3
3961.6	2.5°	3794.1	3675.2	3410.4	3210.4	2994.2	2864.5	2734.8	2653.7	2610.5	2583.4
4231.9	5°	3891.4	3642.8	3215.8	2837.5	2588.8	2421.3	2253.8	2167.3	2086.2	2043.0
4561.6	7.5°	4107.6	3734.6	3026.6	2615.9	2324.0	2064.6	1853.8	1686.3	1589.0	1502.5
4988.5	10°	4372.4	3788.7	3032.0	2486.2	2064.6	1653.8	1356.6	1145.8	1026.9	951.2
5529.0	12.5°	4642.6	3999.5	3053.6	2356.4	1745.7	1243.1	891.8	735.0	664.8	626.9
6031.6	15°	5053.4	4188.6	2999.6	2118.6	1324.1	810.7	610.7	556.7	529.7	497.2
6658.6	17.5°	5410.1	4491.3	2972.6	1761.9	908.0	583.7	508.0	448.6	421.6	389.1
7280.1	20°	5891.1	4680.5	2826.6	1362.0	626.9	486.4	410.8	356.7	313.5	286.4
7950.3	22.5°	6328.9	4826.4	2567.2	929.6	481.0	383.7	302.7	248.6	210.8	178.4
8620.5	25°	6804.5	4972.3	2188.9	572.9	340.5	237.8	162.1	118.9	81.1	59.5
9171.7	27.5°	7145.0	5015.5	1697.1	340.5	205.4	108.1	37.8	5.4	0.0	0.0
9717.6	30°	7490.9	5031.8	1172.8	183.8	81.1	0.0	0.0	0.0	0.0	0.0
10344.6	32.5°	7885.4	5026.4	735.0	97.3	5.4	0.0	0.0	0.0	0.0	0.0
11036.4	35°	8188.1	4934.5	351.3	10.8	0.0	0.0	0.0	0.0	0.0	0.0
11879.5	37.5°	8647.5	4799.4	108.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12830.7	40°	9171.7	4556.1	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13760.3	42.5°	9642.0	4307.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14830.5	45°	10177.0	3999.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16311.3	47.5°	11117.4	3869.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18073.3	50°	12344.3	3767.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19764.9	52.5°	13101.0	3464.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20791.8	55°	13495.5	3150.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22045.7	57.5°	14079.2	2999.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23553.6	60°	14943.9	3010.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26077.6	62.5°	16295.1	3161.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28536.7	65°	17041.0	3010.4	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29131.2	67.5°	16408.6	2410.5	102.7	27.0	5.4	0.0	0.0	0.0	0.0	0.0
28801.6	68°	15862.7	2215.9	102.7	27.0	5.4	0.0	0.0	0.0	0.0	0.0
26072.2	70°	13111.8	1443.1	97.3	27.0	10.8	0.0	0.0	0.0	0.0	0.0
20294.6	72.5°	9550.1	799.9	81.1	21.6	10.8	0.0	0.0	0.0	0.0	0.0
11955.2	75°	5556.0	399.9	59.5	21.6	10.8	0.0	0.0	0.0	0.0	0.0
3377.9	77.5°	1448.5	200.0	48.6	27.0	16.2	5.4	0.0	0.0	0.0	0.0
616.1	80°	286.4	129.7	43.2	32.4	21.6	10.8	0.0	0.0	0.0	0.0
205.4	82.5°	135.1	91.9	43.2	32.4	27.0	16.2	5.4	0.0	0.0	0.0
91.9	85°	70.3	43.2	43.2	32.4	32.4	21.6	10.8	0.0	0.0	0.0
37.8	87.5°	32.4	16.2	16.2	16.2	16.2	10.8	5.4	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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