

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: P575271

Luminaire Tested: **EPH-VN-07-760-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575271
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-760-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

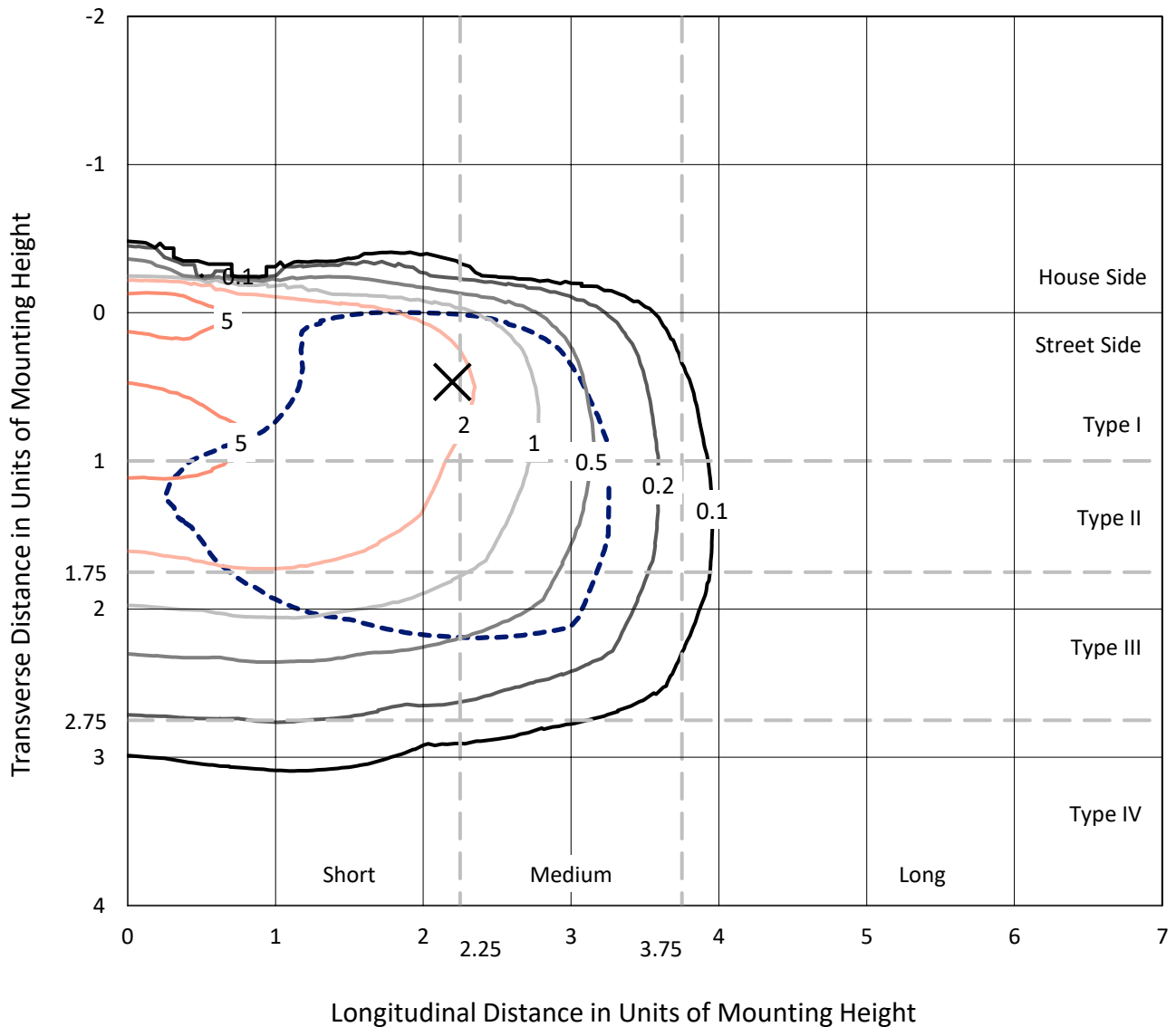
Lumens per Lamp: N/A
Luminaire Lumens: 35766.9 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

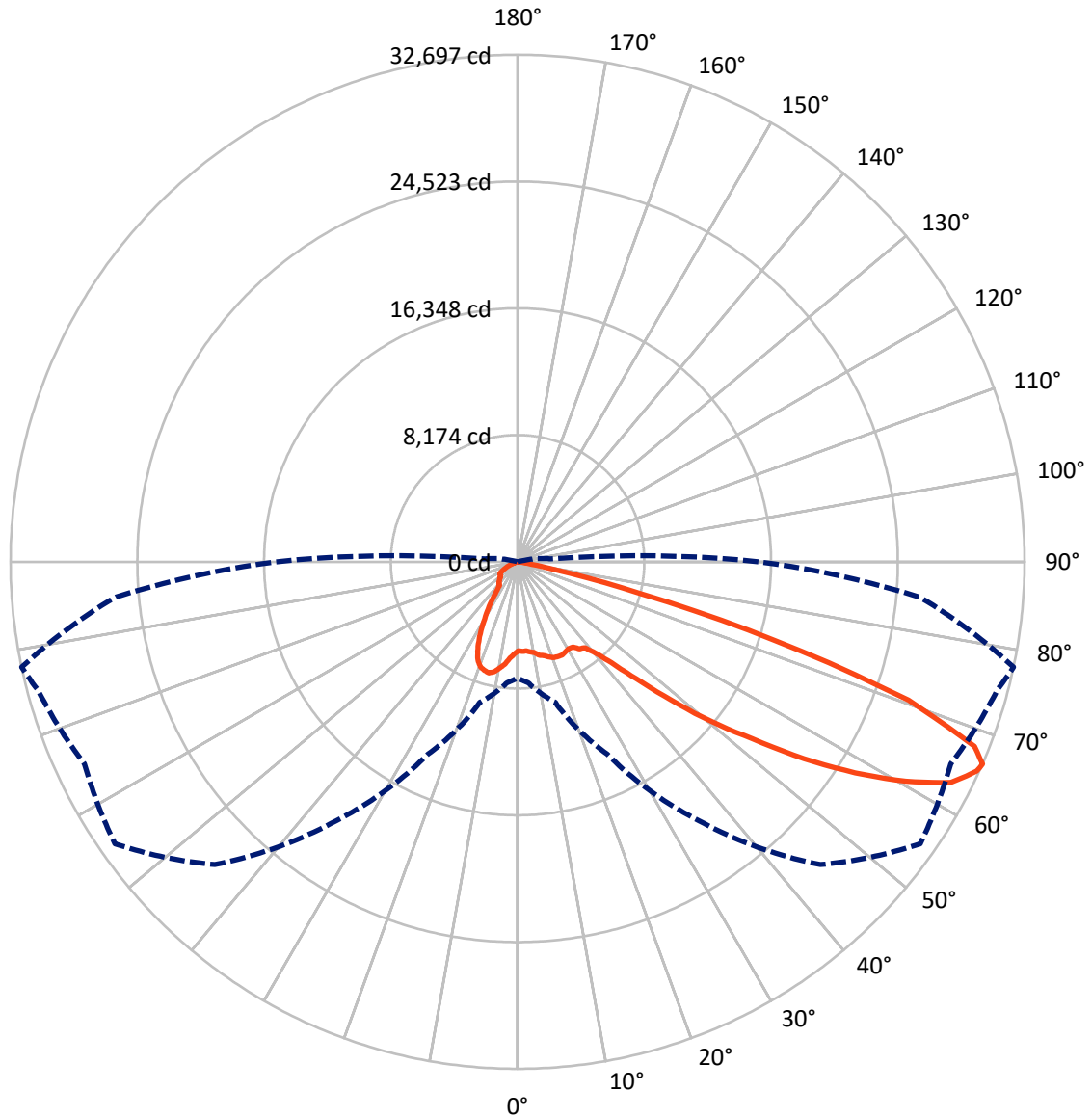
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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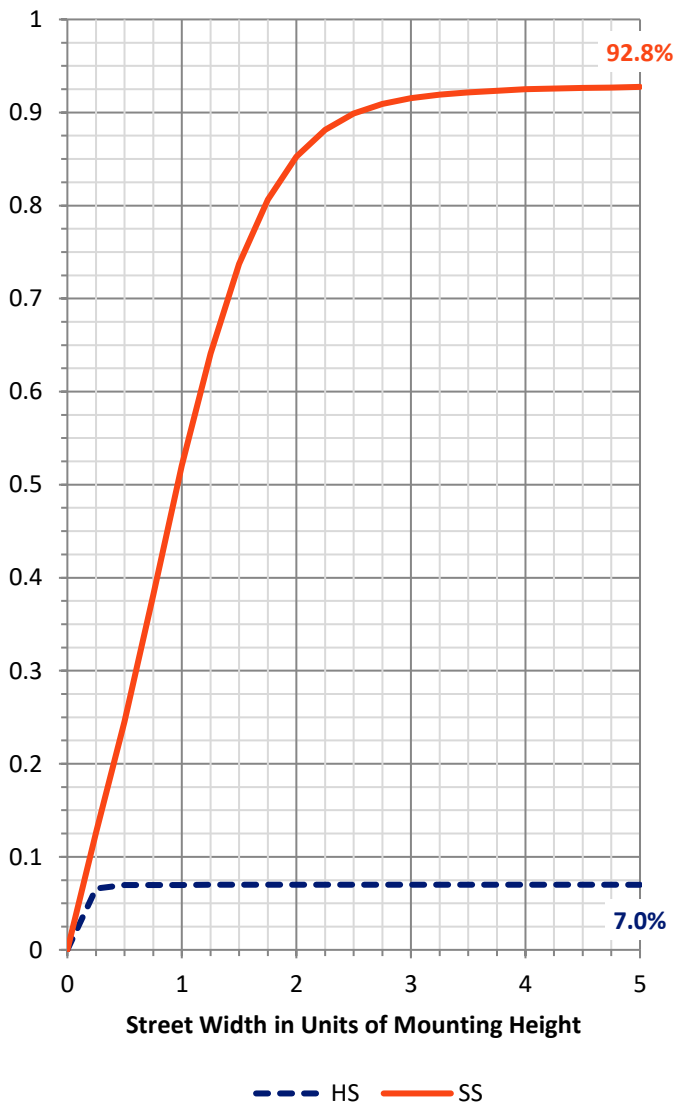
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2514.6	0.0	2514.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	33252.4	0.0	33252.4
	% Fixture	93.0	0.0	93.0
Total	Lumens	35766.9	0.0	35766.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.1	1.5
10°-20°	1183.1	3.3
20°-30°	1691.0	4.7
30°-40°	2894.5	8.1
40°-50°	5224.2	14.6
50°-60°	8934.1	25.0
60°-70°	10996.3	30.7
70°-80°	4157.2	11.6
80°-90°	162.4	0.5
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°	35766.9	100.0
0°-180°	35766.9	100.0

Coefficient of Utilization



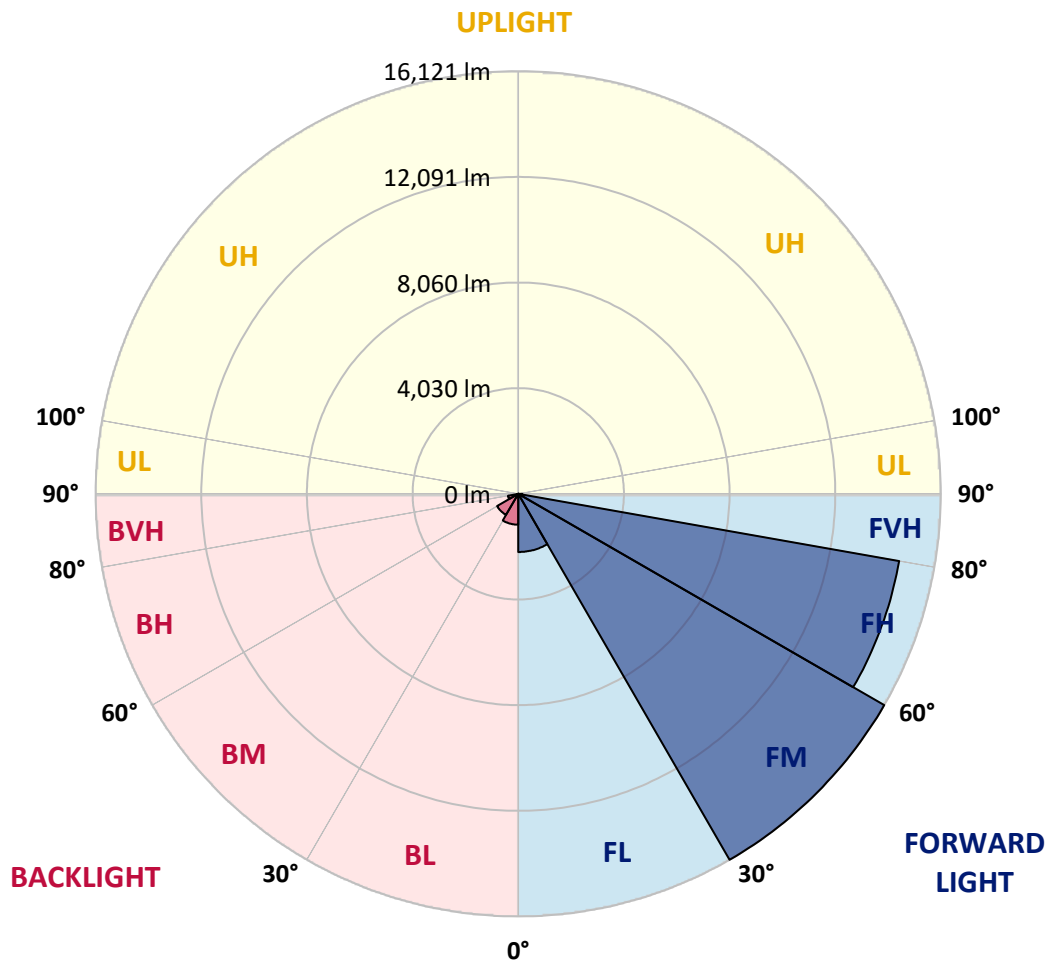
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.4	6.2			
FM (30°-60°)	16120.9	45.1			
FH (60°-80°)	14755.2	41.3			G5
FVH (80°-90°)	155.9	0.4			G2/225
BL (0°-30°)	1177.7	3.3	B3/2500		
BM (30°-60°)	932.0	2.6	B1/1000		
BH (60°-80°)	398.4	1.1	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7
2.5°	5269.3	5220.7	5269.3	5339.6	5377.4	5409.8	5523.3	5620.6	5723.3	5793.6
5°	4885.6	4977.5	4988.3	5009.9	5069.4	5263.9	5328.8	5496.3	5750.3	5771.9
7.5°	4583.0	4555.9	4626.2	4766.7	4918.0	5031.5	5220.7	5512.5	5777.3	5869.2
10°	4145.2	4199.2	4274.9	4415.4	4599.2	4880.2	5215.3	5539.5	5917.9	5950.3
12.5°	3907.4	3853.4	3972.3	4118.2	4431.6	4691.1	5101.8	5490.9	6004.3	6182.7
15°	3712.8	3739.9	3853.4	3950.6	4210.1	4539.7	5020.7	5609.8	6150.2	6274.6
17.5°	3631.8	3615.6	3702.0	3799.3	4118.2	4491.1	4988.3	5615.2	6280.0	6442.1
20°	3669.6	3702.0	3675.0	3766.9	3966.9	4345.2	5036.9	5717.9	6377.2	6598.8
22.5°	4264.1	4220.9	4004.7	3831.7	3842.6	4285.7	4999.1	5782.7	6463.7	6642.1
25°	5815.2	5582.8	5047.7	4383.0	3945.2	4123.6	4955.9	5761.1	6447.5	6669.1
27.5°	7377.1	7177.1	6652.9	5620.6	4361.4	4058.7	4804.5	5777.3	6366.4	6571.8
30°	9025.4	9133.5	8355.3	7128.5	5453.1	4415.4	4707.3	5690.9	6312.4	6485.3
32.5°	10717.0	10673.8	10203.6	8874.1	7015.0	5204.5	4864.0	5777.3	6382.6	6550.2
35°	12041.1	11889.8	11414.2	10214.4	8306.6	6393.4	5404.4	6188.1	6690.7	6890.7
37.5°	12695.0	12759.9	12484.3	11441.2	9722.6	7496.0	6080.0	6188.1	6788.0	7020.4
40°	13203.0	13397.6	13294.9	12959.8	11127.7	8739.0	6825.8	6571.8	7279.8	7717.5
42.5°	13813.7	13721.9	14327.2	14019.1	12965.2	10306.3	8133.7	7485.1	8441.7	8863.3
45°	14138.0	14489.3	14948.7	15343.2	14667.6	12262.7	9841.5	9101.1	10219.8	10754.8
47.5°	14970.3	15110.8	15856.6	16353.8	16051.2	14500.1	12435.6	11462.8	12457.2	13300.3
50°	15456.7	15267.5	16310.6	17067.2	17240.2	16353.8	14759.5	14002.9	15116.2	16191.7
52.5°	15029.7	15570.2	16613.2	17969.8	18450.7	18007.6	17488.8	17159.1	17942.7	18937.1
55°	13532.7	13900.2	16440.3	18958.8	20509.8	20304.5	20785.5	20569.3	21358.3	22412.2
57.5°	12327.5	12786.9	15018.9	19472.2	22428.4	23033.7	23639.0	23503.9	24455.1	25671.1
60°	11576.3	11841.1	13992.1	19342.5	23563.3	25854.8	27222.2	26271.0	27822.0	28751.6
62.5°	10273.8	10441.4	12495.1	17623.9	23903.8	27849.1	30167.6	28875.9	30221.6	31356.5
65°	8236.4	8690.3	10387.3	15051.4	21655.6	28216.6	32005.1	30486.4	31788.9	32534.7
66°	7496.0	7825.6	9382.1	13689.4	20374.7	27605.9	31697.0	30821.5	32015.9	32696.8
67.5°	6220.5	6506.9	7744.6	11749.2	17753.6	26260.2	31913.2	30594.5	32188.8	31772.7
70°	4118.2	4301.9	5296.3	7944.5	12365.4	21482.6	29600.1	28821.9	28297.6	26735.8
72.5°	1924.0	2188.8	3307.5	4815.4	7252.8	15029.7	24136.2	23093.2	19845.1	17348.2
75°	870.1	989.0	1815.9	2761.7	3253.5	7787.8	15570.2	14062.3	9879.3	8203.9
77.5°	470.2	535.0	886.3	1313.3	1183.6	2729.2	7706.7	6409.7	3113.0	2280.7
80°	362.1	427.0	740.4	751.2	437.8	708.0	2864.4	1983.4	778.2	589.1
82.5°	189.2	270.2	583.7	486.4	221.6	286.4	886.3	551.3	243.2	194.6
85°	75.7	118.9	329.7	324.3	129.7	97.3	248.6	167.5	97.3	81.1
87.5°	5.4	5.4	178.3	124.3	81.1	27.0	37.8	37.8	48.6	43.2
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°
5728.7	0°	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7	5728.7
5771.9	2.5°	5869.2	5934.1	5944.9	6123.2	6161.1	6123.2	6220.5	6204.3	6247.5	6215.1
5869.2	5°	6004.3	6096.2	6274.6	6409.7	6409.7	6301.6	6215.1	6101.6	5934.1	5890.8
6058.4	7.5°	6236.7	6528.6	6690.7	6604.2	6431.3	6025.9	5463.9	5053.1	4707.3	4577.6
6301.6	10°	6647.5	6809.6	6998.7	6647.5	5928.7	5069.4	4123.6	3502.1	3015.7	2907.6
6588.0	12.5°	6912.3	7171.7	7279.8	6409.7	4999.1	3718.3	2691.4	1988.8	1648.4	1388.9
6890.7	15°	7258.2	7555.4	7333.8	5766.5	3939.8	2437.4	1394.3	870.1	708.0	664.7
7096.0	17.5°	7496.0	7820.2	7112.2	4966.7	2794.1	1297.1	691.8	599.9	589.1	594.5
7317.6	20°	7912.1	8106.7	6777.2	4037.1	1670.0	664.7	556.7	535.0	524.2	540.4
7468.9	22.5°	8068.8	8247.2	6231.3	2923.8	751.2	443.2	416.1	399.9	410.7	405.3
7560.8	25°	8058.0	8149.9	5334.2	1675.4	221.6	172.9	156.7	156.7	145.9	151.3
7409.5	27.5°	8139.1	7912.1	4329.0	497.2	0.0	0.0	0.0	0.0	0.0	0.0
7441.9	30°	8182.3	7528.4	3080.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7631.1	32.5°	8203.9	7328.4	1983.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7901.3	35°	8371.5	6928.5	848.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8339.0	37.5°	8485.0	6415.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9160.5	40°	8955.2	6252.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10392.7	42.5°	9565.9	5950.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12224.8	45°	10414.4	5501.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14321.8	47.5°	11538.5	5236.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16283.6	50°	12376.2	4820.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18494.0	52.5°	13440.8	4572.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21077.3	55°	14705.5	4583.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23266.1	57.5°	15856.6	4507.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24979.3	60°	16445.7	3853.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26211.5	62.5°	16321.4	3118.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26584.4	65°	15889.0	2448.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26011.6	66°	15591.8	2167.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25244.1	67.5°	14689.3	1734.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19737.0	70°	11689.8	1189.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12451.8	72.5°	7436.5	729.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5453.1	75°	3426.4	335.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1583.5	77.5°	1075.5	205.4	43.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
378.3	80°	281.0	129.7	43.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
162.1	82.5°	145.9	91.9	37.8	16.2	10.8	0.0	0.0	0.0	0.0	0.0
75.7	85°	91.9	37.8	16.2	10.8	10.8	0.0	0.0	0.0	0.0	0.0
54.0	87.5°	81.1	21.6	10.8	10.8	5.4	0.0	0.0	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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