

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: P575248

Luminaire Tested: **EPH-VN-08-730-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575248
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

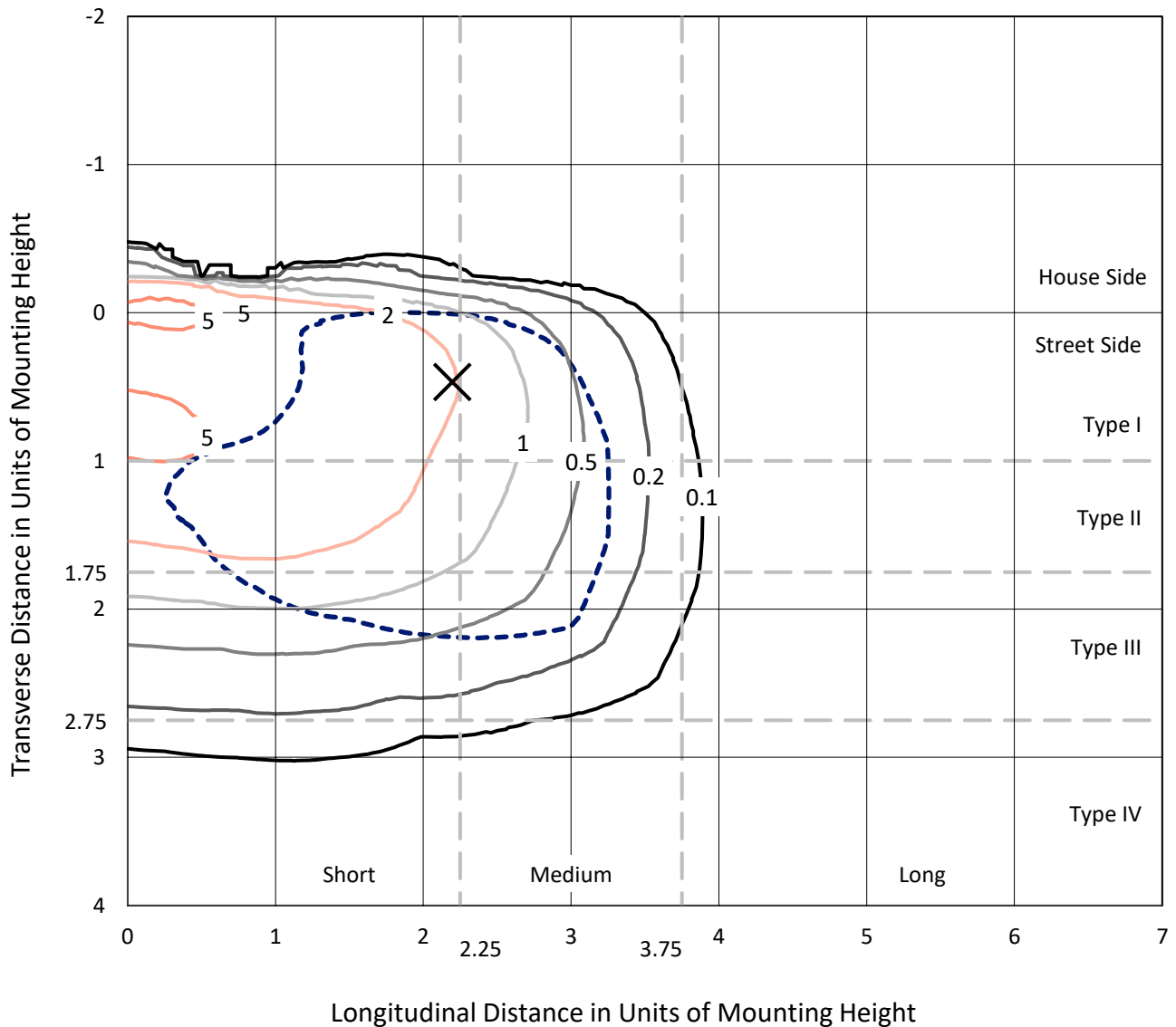
Lumens per Lamp: N/A
Luminaire Lumens: 31443.3 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

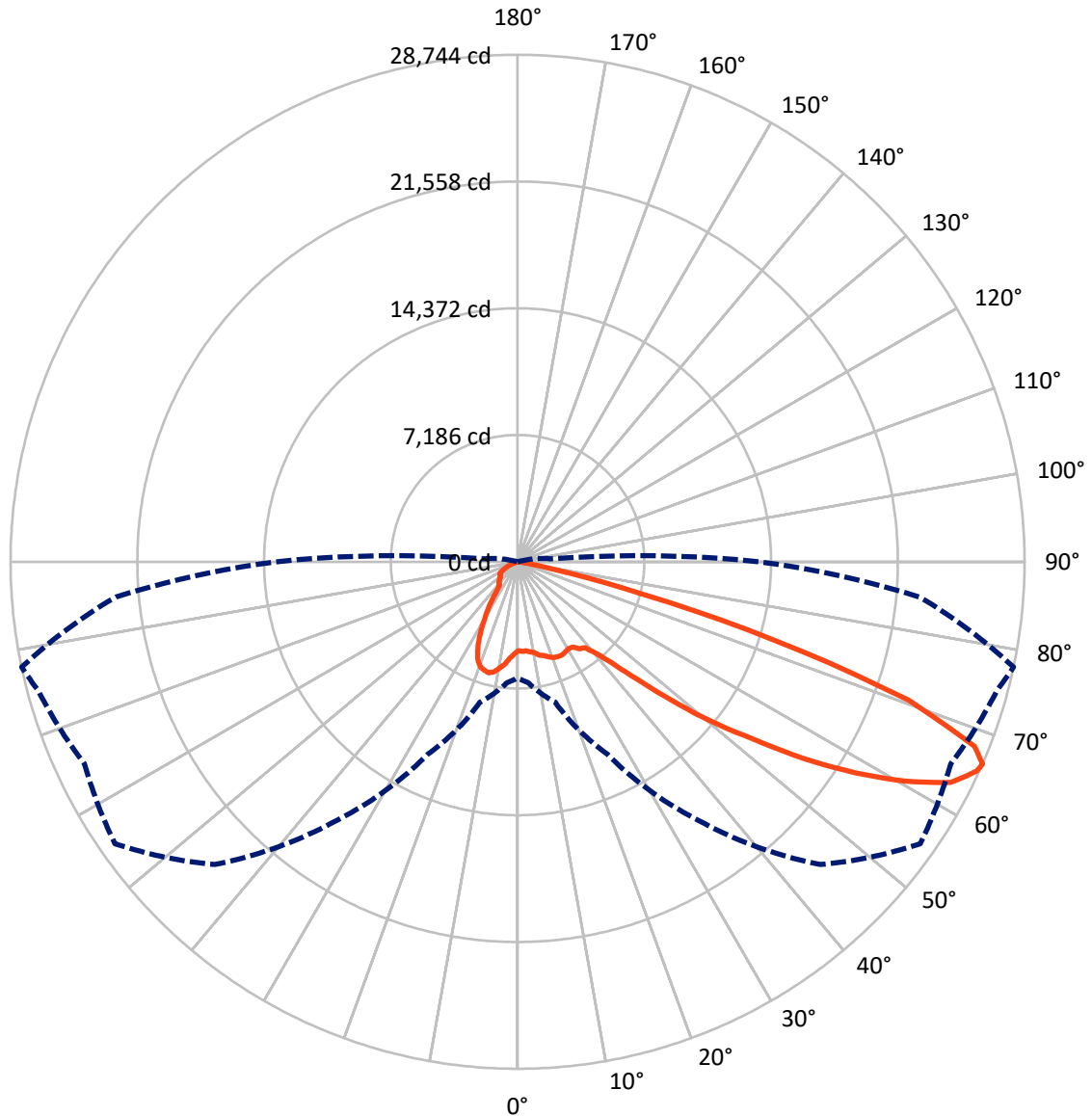
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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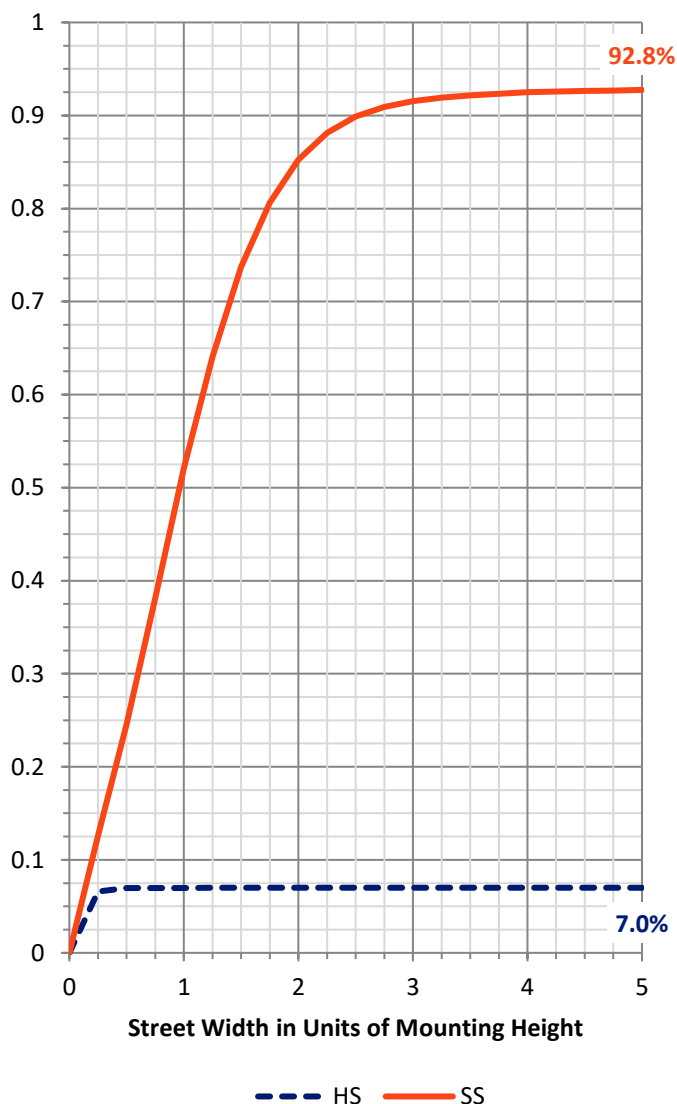
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2210.6	0.0	2210.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	29232.7	0.0	29232.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	31443.3	0.0	31443.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.7	1.5
10°-20°	1040.0	3.3
20°-30°	1486.6	4.7
30°-40°	2544.6	8.1
40°-50°	4592.7	14.6
50°-60°	7854.1	25.0
60°-70°	9667.1	30.7
70°-80°	3654.7	11.6
80°-90°	142.8	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°	31443.3	100.0
0°-180°	31443.3	100.0

Coefficient of Utilization



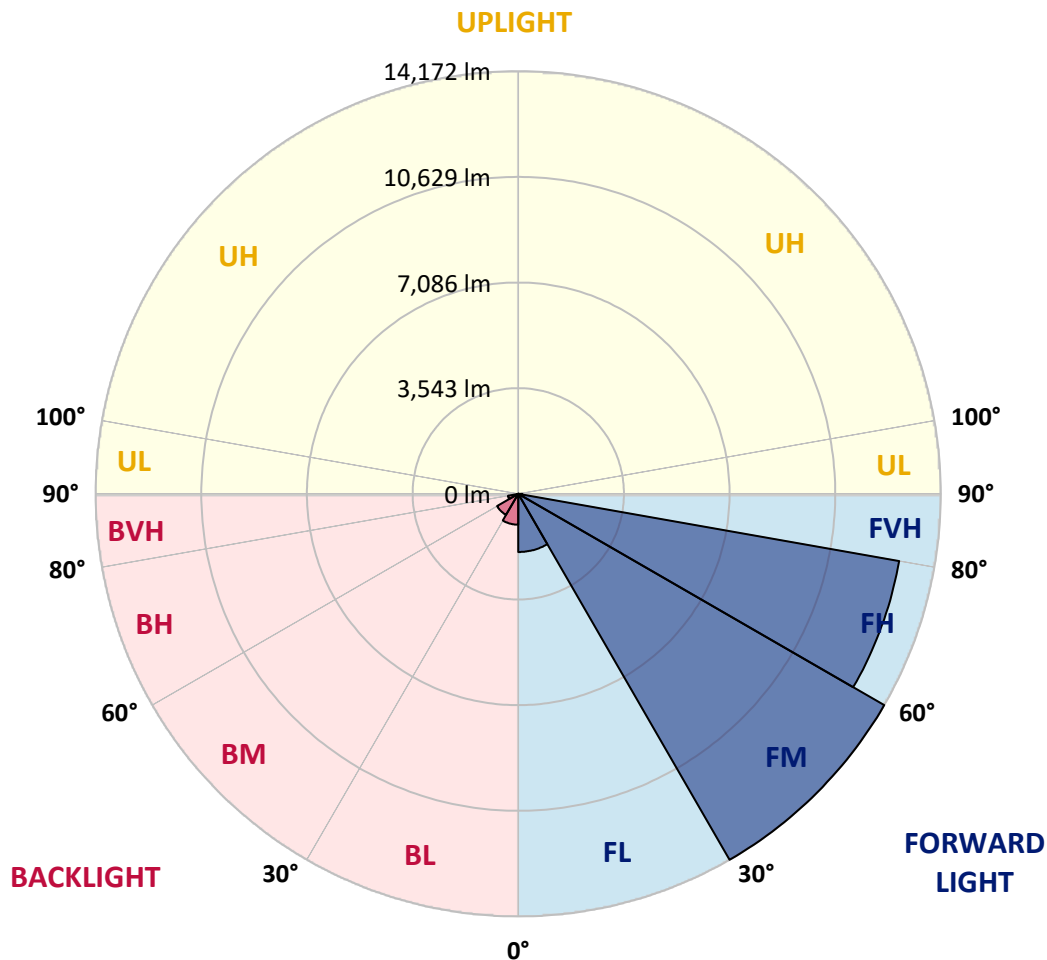
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.0	6.2			
FM (30°-60°)	14172.1	45.1			
FH (60°-80°)	12971.5	41.3			G5
FVH (80°-90°)	137.0	0.4			G2/225
BL (0°-30°)	1035.3	3.3	B3/2500		
BM (30°-60°)	819.3	2.6	B1/1000		
BH (60°-80°)	350.2	1.1	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2
2.5°	4632.3	4589.6	4632.3	4694.1	4727.4	4755.9	4855.7	4941.2	5031.4	5093.2
5°	4295.0	4375.8	4385.3	4404.3	4456.6	4627.6	4684.6	4831.9	5055.2	5074.2
7.5°	4029.0	4005.2	4067.0	4190.5	4323.5	4423.3	4589.6	4846.1	5079.0	5159.7
10°	3644.1	3691.6	3758.1	3881.7	4043.2	4290.3	4584.8	4869.9	5202.5	5231.0
12.5°	3435.1	3387.6	3492.1	3620.4	3895.9	4124.0	4485.1	4827.1	5278.5	5435.3
15°	3264.0	3287.8	3387.6	3473.1	3701.1	3990.9	4413.8	4931.7	5406.8	5516.1
17.5°	3192.8	3178.5	3254.5	3340.0	3620.4	3948.2	4385.3	4936.4	5520.8	5663.3
20°	3226.0	3254.5	3230.8	3311.5	3487.3	3819.9	4428.0	5026.7	5606.3	5801.1
22.5°	3748.6	3710.6	3520.6	3368.5	3378.1	3767.6	4394.8	5083.7	5682.3	5839.1
25°	5112.2	4907.9	4437.6	3853.2	3468.3	3625.1	4356.8	5064.7	5668.1	5862.9
27.5°	6485.3	6309.5	5848.6	4941.2	3834.2	3568.1	4223.8	5079.0	5596.8	5777.4
30°	7934.4	8029.4	7345.2	6266.7	4793.9	3881.7	4138.2	5002.9	5549.3	5701.4
32.5°	9421.5	9383.5	8970.1	7801.3	6167.0	4575.3	4276.0	5079.0	5611.1	5758.4
35°	10585.5	10452.5	10034.4	8979.6	7302.5	5620.6	4751.1	5440.0	5881.9	6057.7
37.5°	11160.4	11217.4	10975.1	10058.1	8547.3	6589.8	5345.0	5440.0	5967.4	6171.7
40°	11607.0	11778.0	11687.8	11393.2	9782.6	7682.6	6000.7	5777.4	6399.8	6784.6
42.5°	12143.9	12063.1	12595.2	12324.4	11398.0	9060.4	7150.4	6580.3	7421.3	7791.8
45°	12428.9	12737.8	13141.6	13488.4	12894.6	10780.3	8651.8	8000.9	8984.4	9454.7
47.5°	13160.6	13284.1	13939.8	14376.9	14110.8	12747.3	10932.3	10077.1	10951.3	11692.5
50°	13588.2	13421.9	14338.9	15004.1	15156.1	14376.9	12975.3	12310.2	13288.9	14234.4
52.5°	13212.9	13688.0	14605.0	15797.5	16220.3	15830.8	15374.6	15084.8	15773.7	16647.9
55°	11896.8	12219.9	14452.9	16666.9	18030.5	17850.0	18272.8	18082.8	18776.4	19702.9
57.5°	10837.3	11241.2	13203.4	17118.3	19717.2	20249.3	20781.4	20662.6	21498.8	22567.8
60°	10176.9	10409.7	12300.7	17004.3	20714.9	22729.4	23931.4	23095.2	24458.8	25276.0
62.5°	9031.9	9179.2	10984.6	15493.4	21014.2	24482.6	26520.8	25385.3	26568.3	27566.0
65°	7240.7	7639.8	9131.7	13231.9	19037.8	24805.6	28136.2	26801.1	27946.1	28601.8
66°	6589.8	6879.6	8248.0	12034.6	17911.7	24268.8	27865.4	27095.7	28145.7	28744.3
67.5°	5468.5	5720.4	6808.4	10328.9	15607.4	23085.7	28055.4	26896.1	28297.7	27931.9
70°	3620.4	3781.9	4656.1	6984.2	10870.6	18885.7	26021.9	25337.8	24876.9	23503.8
72.5°	1691.4	1924.2	2907.7	4233.3	6376.0	13212.9	21218.5	20301.6	17446.1	15251.1
75°	764.9	869.5	1596.4	2427.8	2860.2	6846.4	13688.0	12362.4	8685.1	7212.2
77.5°	413.3	470.4	779.2	1154.5	1040.5	2399.3	6775.1	5634.8	2736.6	2005.0
80°	318.3	375.3	650.9	660.4	384.8	622.4	2518.1	1743.7	684.2	517.9
82.5°	166.3	237.6	513.1	427.6	194.8	251.8	779.2	484.6	213.8	171.0
85°	66.5	104.5	289.8	285.1	114.0	85.5	218.6	147.3	85.5	71.3
87.5°	4.8	4.8	156.8	109.3	71.3	23.8	33.3	33.3	42.8	38.0
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°
5036.2	0°	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2	5036.2
5074.2	2.5°	5159.7	5216.7	5226.2	5383.0	5416.3	5383.0	5468.5	5454.3	5492.3	5463.8
5159.7	5°	5278.5	5359.3	5516.1	5634.8	5634.8	5539.8	5463.8	5364.0	5216.7	5178.7
5326.0	7.5°	5482.8	5739.4	5881.9	5805.9	5653.8	5297.5	4803.4	4442.3	4138.2	4024.2
5539.8	10°	5843.9	5986.4	6152.7	5843.9	5212.0	4456.6	3625.1	3078.7	2651.1	2556.1
5791.6	12.5°	6076.7	6304.7	6399.8	5634.8	4394.8	3268.8	2366.1	1748.4	1449.1	1221.0
6057.7	15°	6380.8	6642.1	6447.3	5069.5	3463.6	2142.8	1225.8	764.9	622.4	584.4
6238.2	17.5°	6589.8	6874.9	6252.5	4366.3	2456.3	1140.3	608.1	527.4	517.9	522.6
6433.0	20°	6955.6	7126.7	5957.9	3549.1	1468.1	584.4	489.4	470.4	460.9	475.1
6566.1	22.5°	7093.4	7250.2	5478.0	2570.4	660.4	389.6	365.8	351.6	361.1	356.3
6646.8	25°	7083.9	7164.7	4689.4	1472.8	194.8	152.0	137.8	137.8	128.3	133.0
6513.8	27.5°	7155.2	6955.6	3805.7	437.1	0.0	0.0	0.0	0.0	0.0	0.0
6542.3	30°	7193.2	6618.3	2708.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6708.6	32.5°	7212.2	6442.5	1743.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6946.1	35°	7359.5	6090.9	745.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7331.0	37.5°	7459.3	5639.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8053.2	40°	7872.6	5497.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9136.4	42.5°	8409.5	5231.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10747.0	45°	9155.4	4836.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12590.5	47.5°	10143.7	4603.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14315.1	50°	10880.1	4238.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16258.4	52.5°	11816.0	4019.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18529.4	55°	12927.8	4029.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20453.6	57.5°	13939.8	3962.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21959.7	60°	14457.7	3387.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23043.0	62.5°	14348.4	2741.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23370.8	65°	13968.3	2152.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22867.2	66°	13707.0	1905.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22192.5	67.5°	12913.6	1525.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17351.1	70°	10276.7	1045.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10946.6	72.5°	6537.5	641.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4793.9	75°	3012.2	294.6	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1392.1	77.5°	945.5	180.5	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
332.6	80°	247.1	114.0	38.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
142.5	82.5°	128.3	80.8	33.3	14.3	9.5	0.0	0.0	0.0	0.0	0.0
66.5	85°	80.8	33.3	14.3	9.5	9.5	0.0	0.0	0.0	0.0	0.0
47.5	87.5°	71.3	19.0	9.5	9.5	4.8	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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