

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: P575247

Luminaire Tested: **EPH-VN-07-730-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575247
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

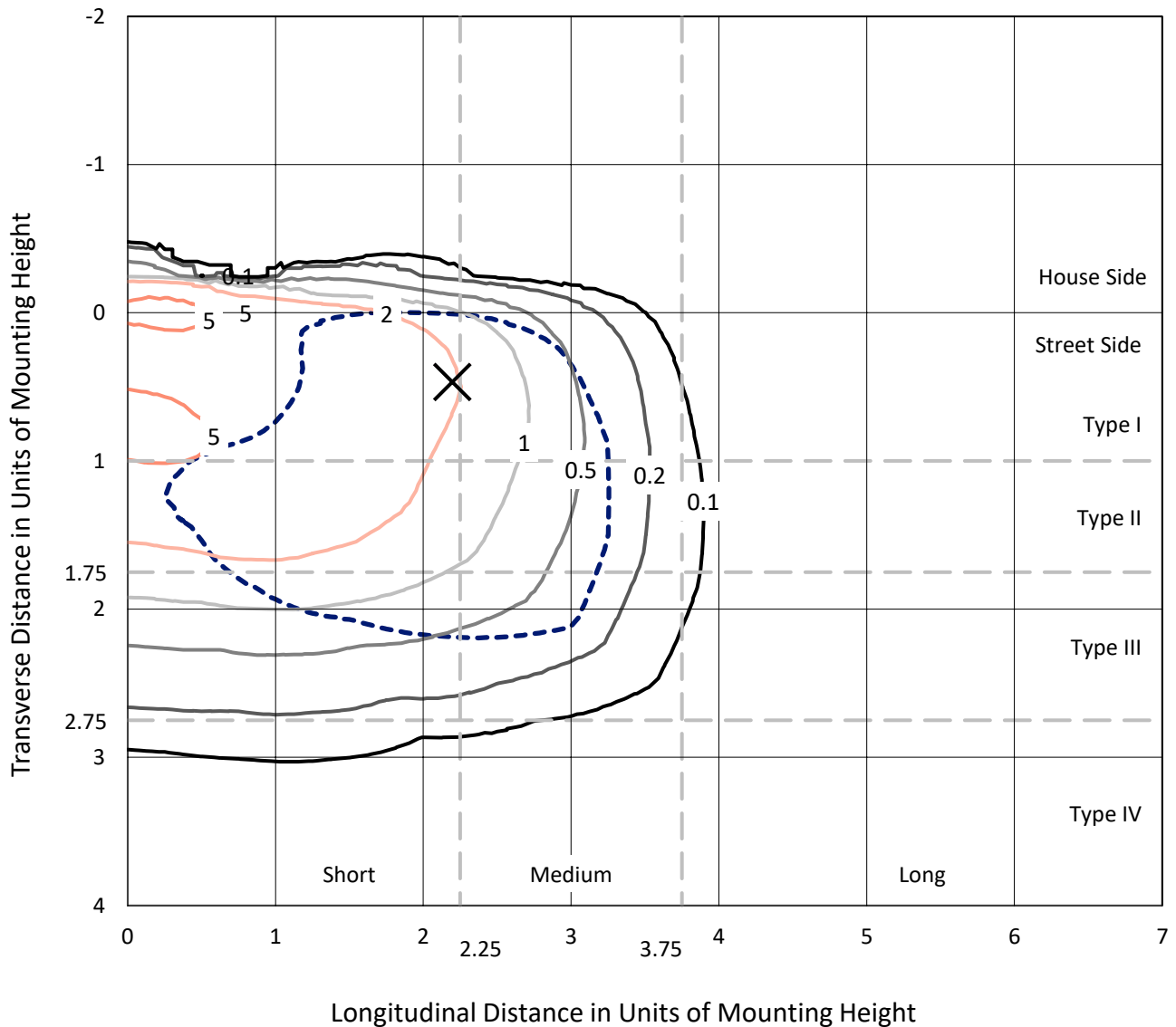
Lumens per Lamp: N/A
Luminaire Lumens: 31840.2 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

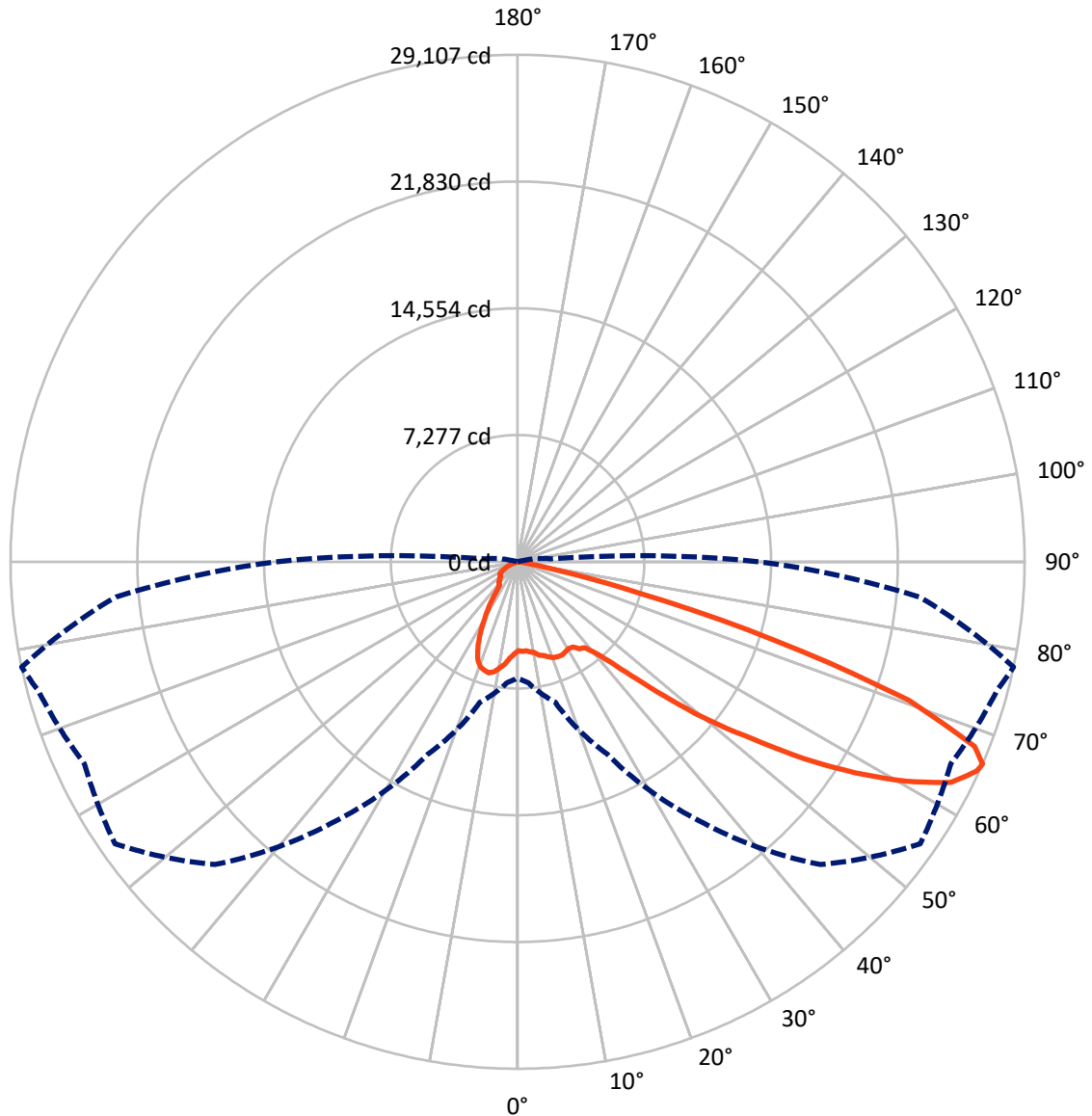
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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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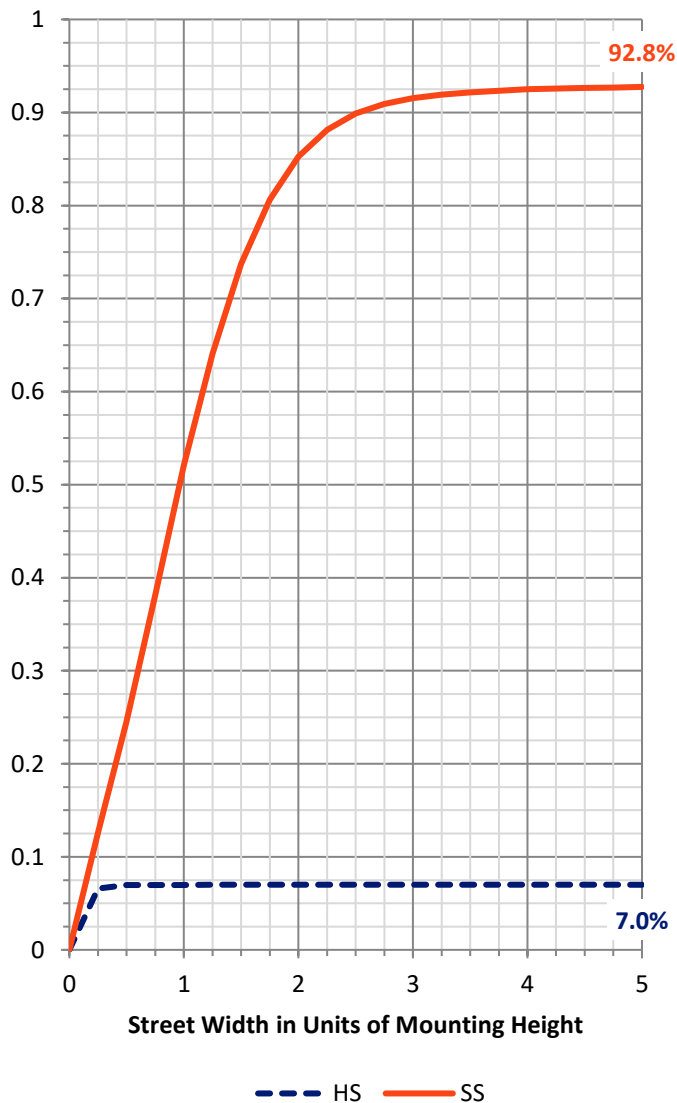
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2238.5	0.0	2238.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	29601.7	0.0	29601.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	31840.2	0.0	31840.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.5	1.5
10°-20°	1053.2	3.3
20°-30°	1505.3	4.7
30°-40°	2576.7	8.1
40°-50°	4650.7	14.6
50°-60°	7953.3	25.0
60°-70°	9789.1	30.7
70°-80°	3700.8	11.6
80°-90°	144.6	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°	31840.2	100.0
0°-180°	31840.2	100.0

Coefficient of Utilization



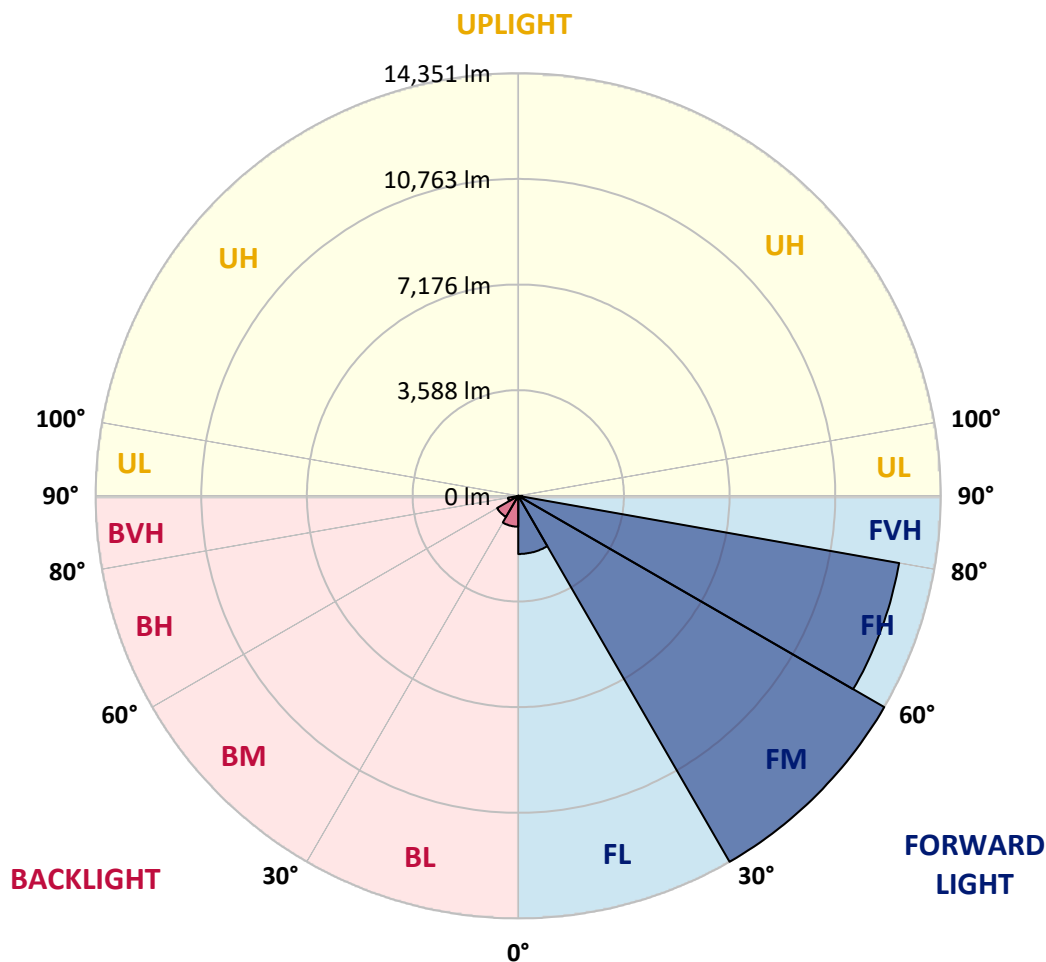
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.7	6.2			
FM (30°-60°)	14351.0	45.1			
FH (60°-80°)	13135.3	41.3			G5
FVH (80°-90°)	138.8	0.4			G2/225
BL (0°-30°)	1048.4	3.3	B3/2500		
BM (30°-60°)	829.7	2.6	B1/1000		
BH (60°-80°)	354.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	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°	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8
2.5°	4690.8	4647.5	4690.8	4753.4	4787.1	4815.9	4917.0	5003.6	5095.0	5157.5
5°	4349.2	4431.0	4440.7	4459.9	4512.8	4686.0	4743.8	4892.9	5119.0	5138.3
7.5°	4079.8	4055.8	4118.3	4243.4	4378.1	4479.1	4647.5	4907.3	5143.1	5224.9
10°	3690.1	3738.2	3805.6	3930.7	4094.3	4344.4	4642.7	4931.4	5268.2	5297.0
12.5°	3478.4	3430.3	3536.2	3666.1	3945.1	4176.0	4541.7	4888.1	5345.1	5503.9
15°	3305.2	3329.3	3430.3	3516.9	3747.9	4041.3	4469.5	4993.9	5475.0	5585.7
17.5°	3233.1	3218.6	3295.6	3382.2	3666.1	3998.0	4440.7	4998.7	5590.5	5734.8
20°	3266.7	3295.6	3271.6	3353.3	3531.4	3868.1	4484.0	5090.2	5677.1	5874.4
22.5°	3796.0	3757.5	3565.0	3411.1	3420.7	3815.2	4450.3	5147.9	5754.1	5912.8
25°	5176.8	4969.9	4493.6	3901.8	3512.1	3670.9	4411.8	5128.6	5739.7	5936.9
27.5°	6567.2	6389.1	5922.5	5003.6	3882.6	3613.1	4277.1	5143.1	5667.5	5850.3
30°	8034.5	8130.8	7438.0	6345.8	4854.4	3930.7	4190.5	5066.1	5619.4	5773.3
32.5°	9540.4	9501.9	9083.4	7899.8	6244.8	4633.1	4330.0	5143.1	5681.9	5831.1
35°	10719.1	10584.4	10161.1	9093.0	7394.7	5691.5	4811.1	5508.7	5956.1	6134.2
37.5°	11301.3	11359.0	11113.7	10185.1	8655.2	6673.0	5412.5	5508.7	6042.7	6249.6
40°	11753.5	11926.7	11835.3	11537.0	9906.1	7779.6	6076.4	5850.3	6480.6	6870.3
42.5°	12297.2	12215.4	12754.2	12480.0	11541.8	9174.8	7240.7	6663.4	7514.9	7890.2
45°	12585.9	12898.6	13307.5	13658.7	13057.3	10916.4	8761.0	8101.9	9097.8	9574.1
47.5°	13326.8	13451.9	14115.8	14558.4	14289.0	12908.2	11070.4	10204.4	11089.6	11840.1
50°	13759.8	13591.4	14519.9	15193.5	15347.4	14558.4	13139.1	12465.6	13456.7	14414.1
52.5°	13379.7	13860.8	14789.3	15996.9	16425.1	16030.6	15568.7	15275.3	15972.9	16858.1
55°	12047.0	12374.2	14635.4	16877.4	18258.1	18075.3	18503.5	18311.1	19013.5	19951.7
57.5°	10974.1	11383.1	13370.1	17334.4	19966.1	20504.9	21043.8	20923.5	21770.3	22852.8
60°	10305.4	10541.1	12456.0	17219.0	20976.4	23016.3	24233.5	23386.8	24767.6	25595.1
62.5°	9145.9	9295.1	11123.3	15689.0	21279.5	24791.6	26855.6	25705.7	26903.7	27914.0
65°	7332.1	7736.3	9246.9	13398.9	19278.1	25118.8	28491.4	27139.5	28298.9	28962.9
66°	6673.0	6966.5	8352.1	12186.5	18137.9	24575.1	28217.1	27437.7	28501.0	29107.2
67.5°	5537.6	5792.6	6894.3	10459.3	15804.5	23377.2	28409.6	27235.7	28655.0	28284.5
70°	3666.1	3829.6	4714.9	7072.3	11007.8	19124.1	26350.4	25657.6	25191.0	23800.5
72.5°	1712.8	1948.5	2944.4	4286.7	6456.5	13379.7	21486.4	20557.9	17666.4	15443.7
75°	774.6	880.4	1616.5	2458.5	2896.3	6932.8	13860.8	12518.5	8794.7	7303.3
77.5°	418.6	476.3	789.0	1169.1	1053.6	2429.6	6860.6	5706.0	2771.2	2030.3
80°	322.3	380.1	659.1	668.7	389.7	630.3	2549.9	1765.7	692.8	524.4
82.5°	168.4	240.6	519.6	433.0	197.3	255.0	789.0	490.7	216.5	173.2
85°	67.4	105.8	293.5	288.7	115.5	86.6	221.3	149.1	86.6	72.2
87.5°	4.8	4.8	158.8	110.7	72.2	24.1	33.7	33.7	43.3	38.5
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°
5099.8	0°	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8	5099.8
5138.3	2.5°	5224.9	5282.6	5292.2	5451.0	5484.7	5451.0	5537.6	5523.2	5561.6	5532.8
5224.9	5°	5345.1	5426.9	5585.7	5706.0	5706.0	5609.8	5532.8	5431.7	5282.6	5244.1
5393.3	7.5°	5552.0	5811.8	5956.1	5879.2	5725.2	5364.4	4864.0	4498.4	4190.5	4075.0
5609.8	10°	5917.7	6062.0	6230.4	5917.7	5277.8	4512.8	3670.9	3117.6	2684.6	2588.4
5864.7	12.5°	6153.4	6384.3	6480.6	5706.0	4450.3	3310.0	2395.9	1770.5	1467.4	1236.5
6134.2	15°	6461.3	6725.9	6528.7	5133.5	3507.3	2169.8	1241.3	774.6	630.3	591.8
6317.0	17.5°	6673.0	6961.7	6331.4	4421.4	2487.3	1154.7	615.8	534.0	524.4	529.2
6514.2	20°	7043.5	7216.7	6033.1	3593.9	1486.6	591.8	495.5	476.3	466.7	481.1
6648.9	22.5°	7183.0	7341.7	5547.2	2602.8	668.7	394.5	370.5	356.0	365.6	360.8
6730.7	25°	7173.4	7255.1	4748.6	1491.4	197.3	154.0	139.5	139.5	129.9	134.7
6596.0	27.5°	7245.5	7043.5	3853.7	442.6	0.0	0.0	0.0	0.0	0.0	0.0
6624.9	30°	7284.0	6701.9	2742.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6793.3	32.5°	7303.3	6523.9	1765.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7033.8	35°	7452.4	6167.8	755.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7423.5	37.5°	7553.4	5710.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8154.8	40°	7972.0	5566.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9251.8	42.5°	8515.7	5297.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10882.7	45°	9271.0	4897.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12749.4	47.5°	10271.7	4662.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14495.9	50°	11017.4	4291.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16463.6	52.5°	11965.2	4070.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18763.3	55°	13091.0	4079.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20711.8	57.5°	14115.8	4012.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22236.9	60°	14640.2	3430.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23333.9	62.5°	14529.5	2776.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23665.8	65°	14144.7	2179.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23155.9	66°	13880.0	1929.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22472.7	67.5°	13076.6	1544.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17570.2	70°	10406.4	1058.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11084.8	72.5°	6620.1	649.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4854.4	75°	3050.2	298.3	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1409.7	77.5°	957.4	182.8	38.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
336.8	80°	250.2	115.5	38.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
144.3	82.5°	129.9	81.8	33.7	14.4	9.6	0.0	0.0	0.0	0.0	0.0
67.4	85°	81.8	33.7	14.4	9.6	9.6	0.0	0.0	0.0	0.0	0.0
48.1	87.5°	72.2	19.2	9.6	9.6	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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