

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: P575252

Luminaire Tested: **EPH-VN-06-735-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575252
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-735-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

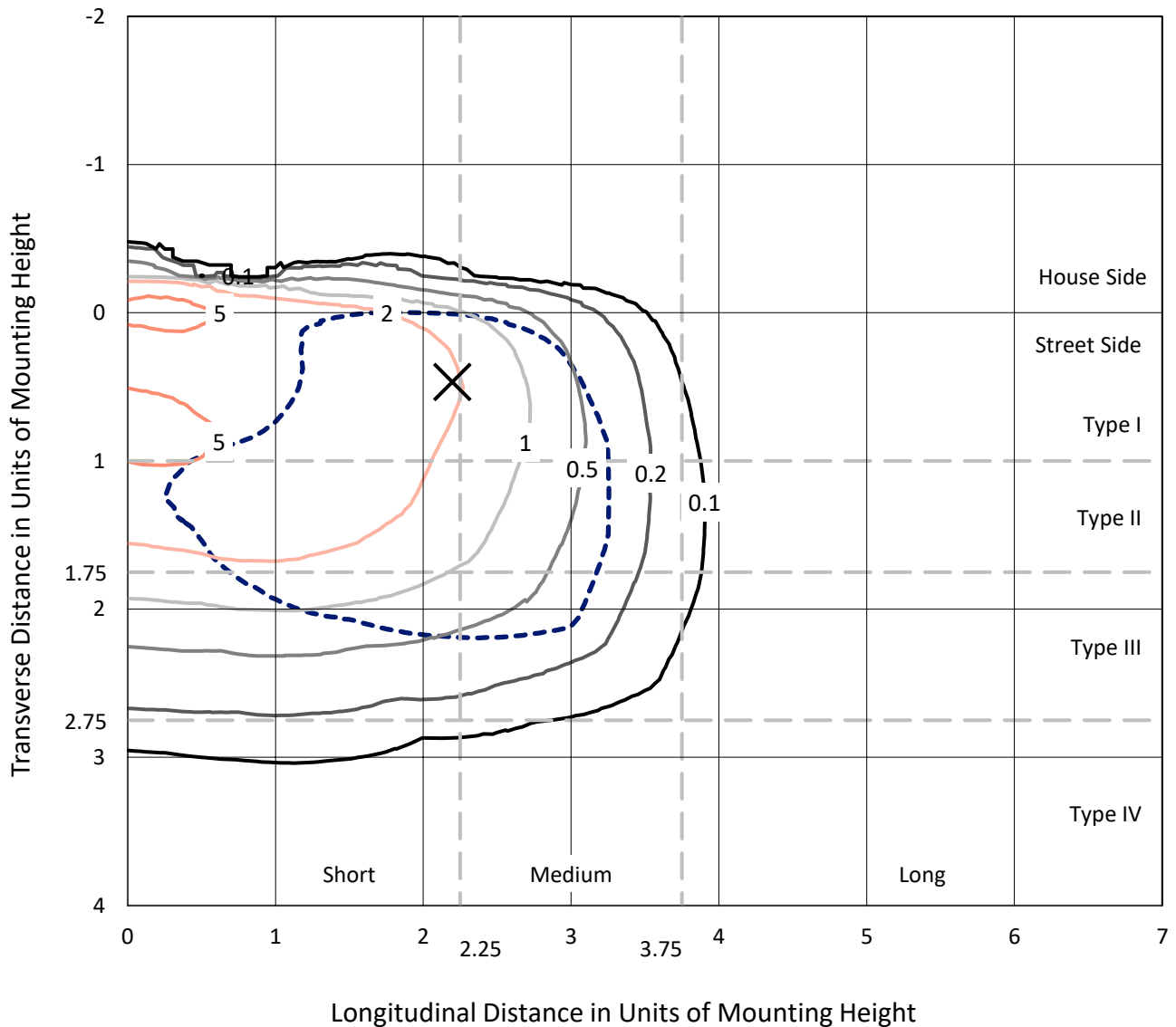
Lumens per Lamp: N/A
Luminaire Lumens: 32325.5 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

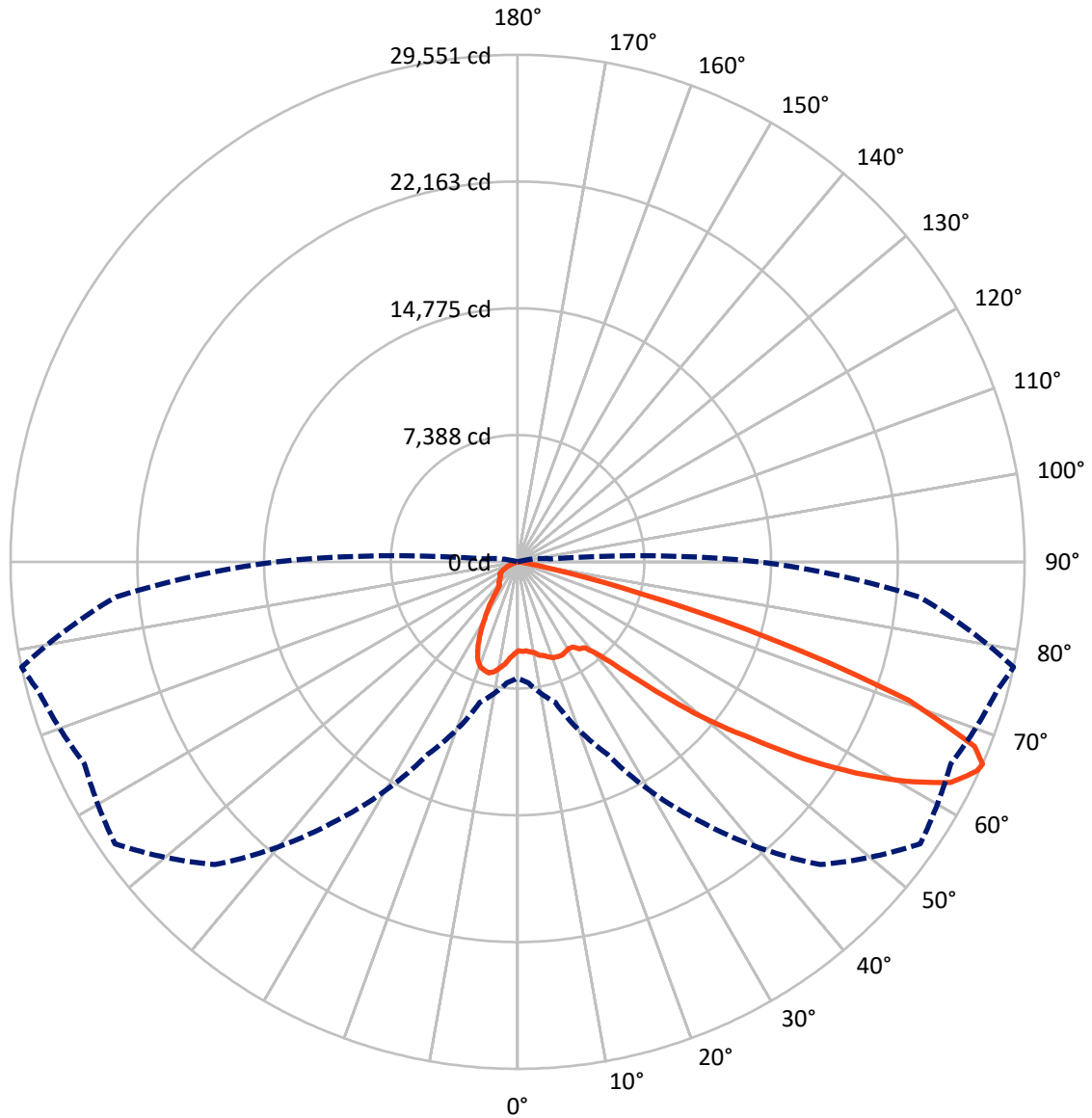
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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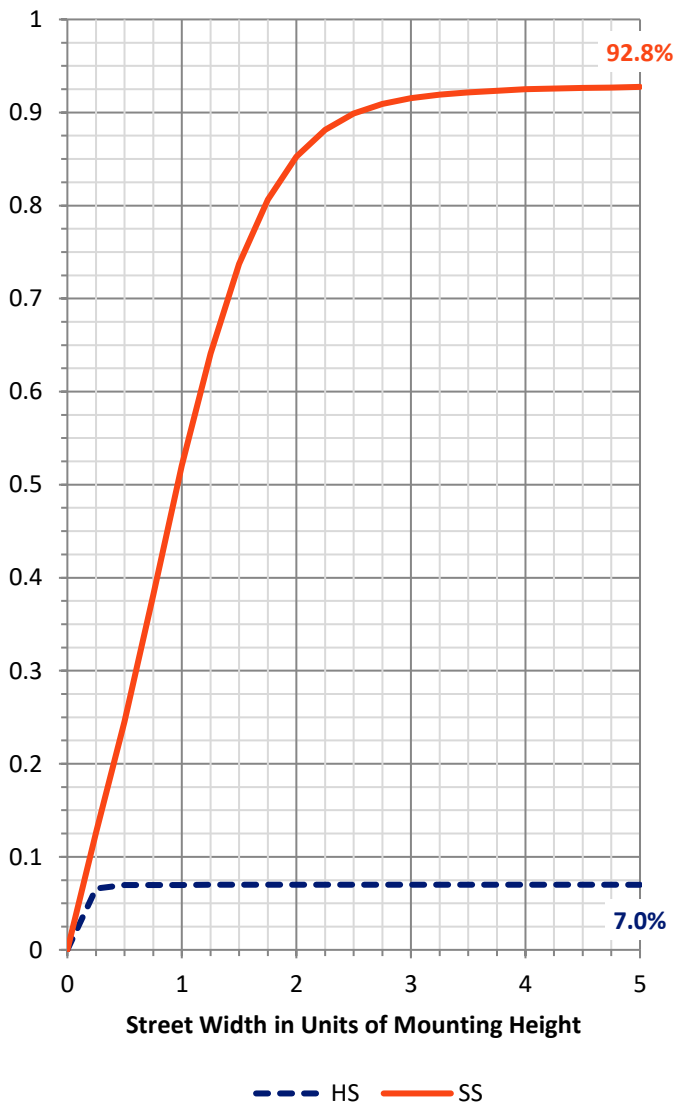
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2272.6	0.0	2272.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	30052.8	0.0	30052.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	32325.5	0.0	32325.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.7	1.5
10°-20°	1069.2	3.3
20°-30°	1528.3	4.7
30°-40°	2616.0	8.1
40°-50°	4721.6	14.6
50°-60°	8074.5	25.0
60°-70°	9938.3	30.7
70°-80°	3757.2	11.6
80°-90°	146.8	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°	32325.5	100.0
0°-180°	32325.5	100.0

Coefficient of Utilization

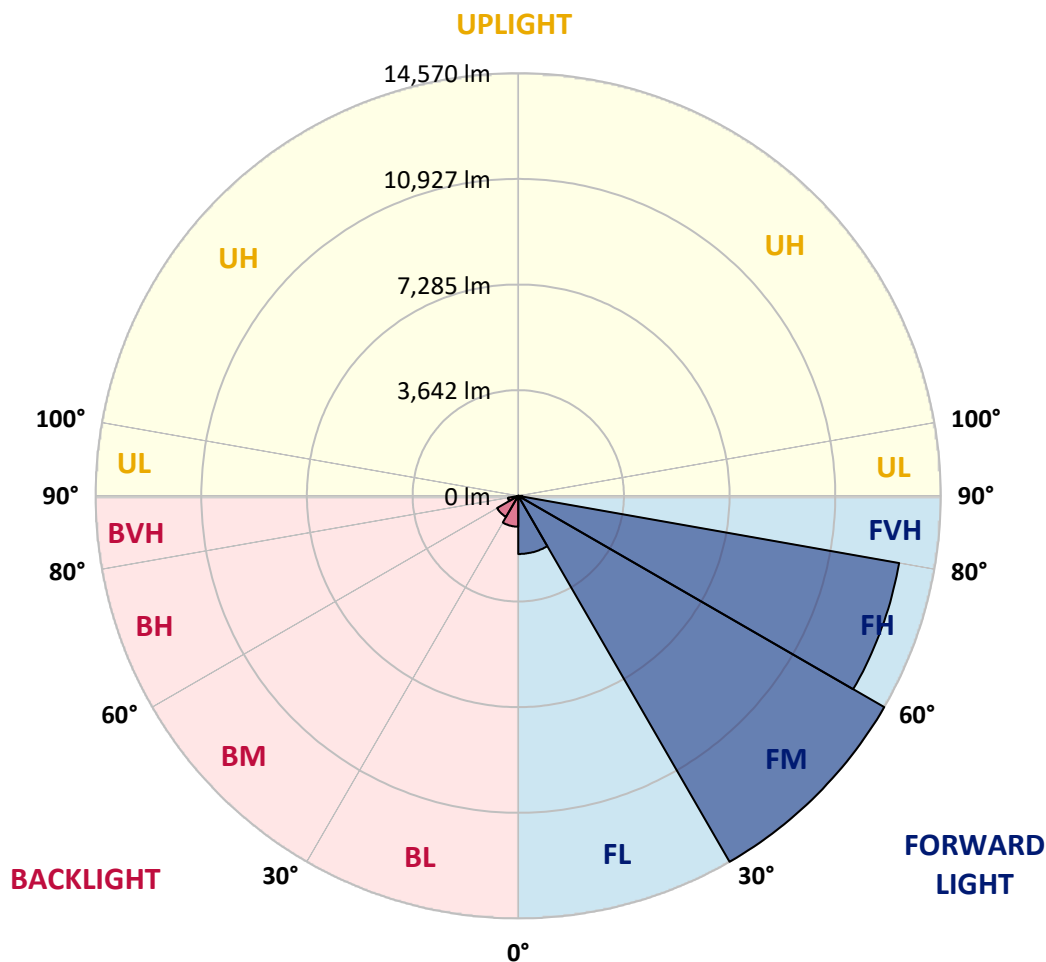


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2006.8	6.2			
FM (30°-60°)	14569.7	45.1			
FH (60°-80°)	13335.4	41.3			G5
FVH (80°-90°)	140.9	0.4			G2/225
BL (0°-30°)	1064.4	3.3	B3/2500		
BM (30°-60°)	842.3	2.6	B1/1000		
BH (60°-80°)	360.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.9	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°	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5
2.5°	4762.3	4718.4	4762.3	4825.8	4860.0	4889.3	4991.9	5079.8	5172.6	5236.1
5°	4415.5	4498.6	4508.3	4527.9	4581.6	4757.4	4816.0	4967.5	5197.0	5216.6
7.5°	4142.0	4117.6	4181.1	4308.1	4444.8	4547.4	4718.4	4982.1	5221.5	5304.5
10°	3746.4	3795.2	3863.6	3990.6	4156.6	4410.6	4713.5	5006.5	5348.4	5377.8
12.5°	3531.4	3482.6	3590.1	3721.9	4005.2	4239.7	4610.9	4962.6	5426.6	5587.8
15°	3355.6	3380.0	3482.6	3570.5	3805.0	4102.9	4537.6	5070.0	5558.5	5670.8
17.5°	3282.3	3267.7	3345.8	3433.8	3721.9	4059.0	4508.3	5074.9	5675.7	5822.2
20°	3316.5	3345.8	3321.4	3404.4	3585.2	3927.1	4552.3	5167.7	5763.6	5963.9
22.5°	3853.8	3814.7	3619.4	3463.1	3472.8	3873.3	4518.1	5226.3	5841.8	6003.0
25°	5255.6	5045.6	4562.1	3961.3	3565.6	3726.8	4479.0	5206.8	5827.1	6027.4
27.5°	6667.2	6486.5	6012.7	5079.8	3941.7	3668.2	4342.3	5221.5	5753.9	5939.5
30°	8157.0	8254.7	7551.3	6442.6	4928.4	3990.6	4254.3	5143.3	5705.0	5861.3
32.5°	9685.8	9646.7	9221.8	8020.2	6340.0	4703.7	4396.0	5221.5	5768.5	5919.9
35°	10882.5	10745.7	10315.9	9231.6	7507.4	5778.3	4884.4	5592.7	6046.9	6227.6
37.5°	11473.5	11532.1	11283.0	10340.3	8787.1	6774.7	5495.0	5592.7	6134.8	6344.9
40°	11932.7	12108.5	12015.7	11712.9	10057.0	7898.1	6169.0	5939.5	6579.3	6975.0
42.5°	12484.6	12401.6	12948.6	12670.2	11717.7	9314.6	7351.1	6764.9	7629.5	8010.5
45°	12777.7	13095.1	13510.3	13866.9	13256.3	11082.8	8894.5	8225.4	9236.4	9720.0
47.5°	13529.9	13656.9	14330.9	14780.3	14506.7	13104.9	11239.1	10359.9	11258.6	12020.6
50°	13969.5	13798.5	14741.2	15425.0	15581.3	14780.3	13339.4	12655.5	13661.7	14633.7
52.5°	13583.6	14072.0	15014.7	16240.7	16675.4	16274.9	15806.0	15508.1	16216.3	17115.0
55°	12230.6	12562.7	14858.4	17134.6	18536.4	18350.8	18785.5	18590.1	19303.3	20255.7
57.5°	11141.4	11556.6	13573.8	17598.6	20270.4	20817.4	21364.5	21242.4	22102.0	23201.0
60°	10462.4	10701.8	12645.8	17481.4	21296.1	23367.1	24602.9	23743.2	25145.0	25985.1
62.5°	9285.3	9436.7	11292.8	15928.1	21603.8	25169.4	27264.9	26097.5	27313.7	28339.4
65°	7443.9	7854.2	9387.9	13603.1	19571.9	25501.6	28925.6	27553.0	28730.2	29404.2
66°	6774.7	7072.6	8479.4	12372.3	18414.3	24949.6	28647.2	27855.9	28935.3	29550.8
67.5°	5622.0	5880.8	6999.4	10618.7	16045.3	23733.4	28842.5	27650.7	29091.6	28715.5
70°	3721.9	3888.0	4786.7	7180.1	11175.6	19415.6	26752.0	26048.6	25574.9	24163.3
72.5°	1738.9	1978.2	2989.3	4352.0	6554.9	13583.6	21813.8	20871.2	17935.6	15679.0
75°	786.4	893.8	1641.2	2495.9	2940.4	7038.5	14072.0	12709.3	8928.7	7414.6
77.5°	424.9	483.6	801.0	1186.9	1069.7	2466.6	6965.2	5792.9	2813.4	2061.2
80°	327.3	385.9	669.2	678.9	395.6	639.9	2588.7	1792.6	703.4	532.4
82.5°	171.0	244.2	527.5	439.6	200.3	258.9	801.0	498.2	219.8	175.8
85°	68.4	107.5	297.9	293.1	117.2	87.9	224.7	151.4	87.9	73.3
87.5°	4.9	4.9	161.2	112.3	73.3	24.4	34.2	34.2	44.0	39.1
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°
5177.5	0°	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5	5177.5
5216.6	2.5°	5304.5	5363.1	5372.9	5534.1	5568.2	5534.1	5622.0	5607.3	5646.4	5617.1
5304.5	5°	5426.6	5509.6	5670.8	5792.9	5792.9	5695.2	5617.1	5514.5	5363.1	5324.0
5475.4	7.5°	5636.6	5900.4	6046.9	5968.8	5812.5	5446.1	4938.2	4566.9	4254.3	4137.1
5695.2	10°	6007.8	6154.4	6325.3	6007.8	5358.2	4581.6	3726.8	3165.1	2725.5	2627.8
5954.1	12.5°	6247.2	6481.6	6579.3	5792.9	4518.1	3360.5	2432.4	1797.5	1489.7	1255.3
6227.6	15°	6559.8	6828.4	6628.2	5211.7	3560.7	2202.9	1260.2	786.4	639.9	600.8
6413.3	17.5°	6774.7	7067.8	6427.9	4488.8	2525.2	1172.3	625.2	542.2	532.4	537.3
6613.5	20°	7150.8	7326.6	6125.1	3648.7	1509.3	600.8	503.1	483.6	473.8	488.4
6750.3	22.5°	7292.4	7453.6	5631.7	2642.5	678.9	400.5	376.1	361.4	371.2	366.3
6833.3	25°	7282.7	7365.7	4820.9	1514.2	200.3	156.3	141.6	141.6	131.9	136.8
6696.5	27.5°	7355.9	7150.8	3912.4	449.4	0.0	0.0	0.0	0.0	0.0	0.0
6725.9	30°	7395.0	6804.0	2784.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6896.8	32.5°	7414.6	6623.3	1792.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7141.0	35°	7566.0	6261.8	766.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7536.7	37.5°	7668.5	5797.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8279.1	40°	8093.5	5651.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9392.8	42.5°	8645.4	5377.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11048.6	45°	9412.3	4972.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12943.7	47.5°	10428.2	4733.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14716.8	50°	11185.3	4356.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16714.5	52.5°	12147.6	4132.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19049.3	55°	13290.5	4142.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21027.5	57.5°	14330.9	4073.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22575.8	60°	14863.3	3482.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23689.5	62.5°	14751.0	2818.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24026.5	65°	14360.2	2212.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23508.7	66°	14091.6	1958.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22815.2	67.5°	13275.9	1567.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17837.9	70°	10565.0	1074.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11253.7	72.5°	6721.0	659.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4928.4	75°	3096.7	302.8	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1431.1	77.5°	972.0	185.6	39.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
341.9	80°	254.0	117.2	39.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0
146.5	82.5°	131.9	83.0	34.2	14.7	9.8	0.0	0.0	0.0	0.0	0.0
68.4	85°	83.0	34.2	14.7	9.8	9.8	0.0	0.0	0.0	0.0	0.0
48.8	87.5°	73.3	19.5	9.8	9.8	4.9	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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