

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: P575266

Luminaire Tested: **EPH-VN-08-750-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575266
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

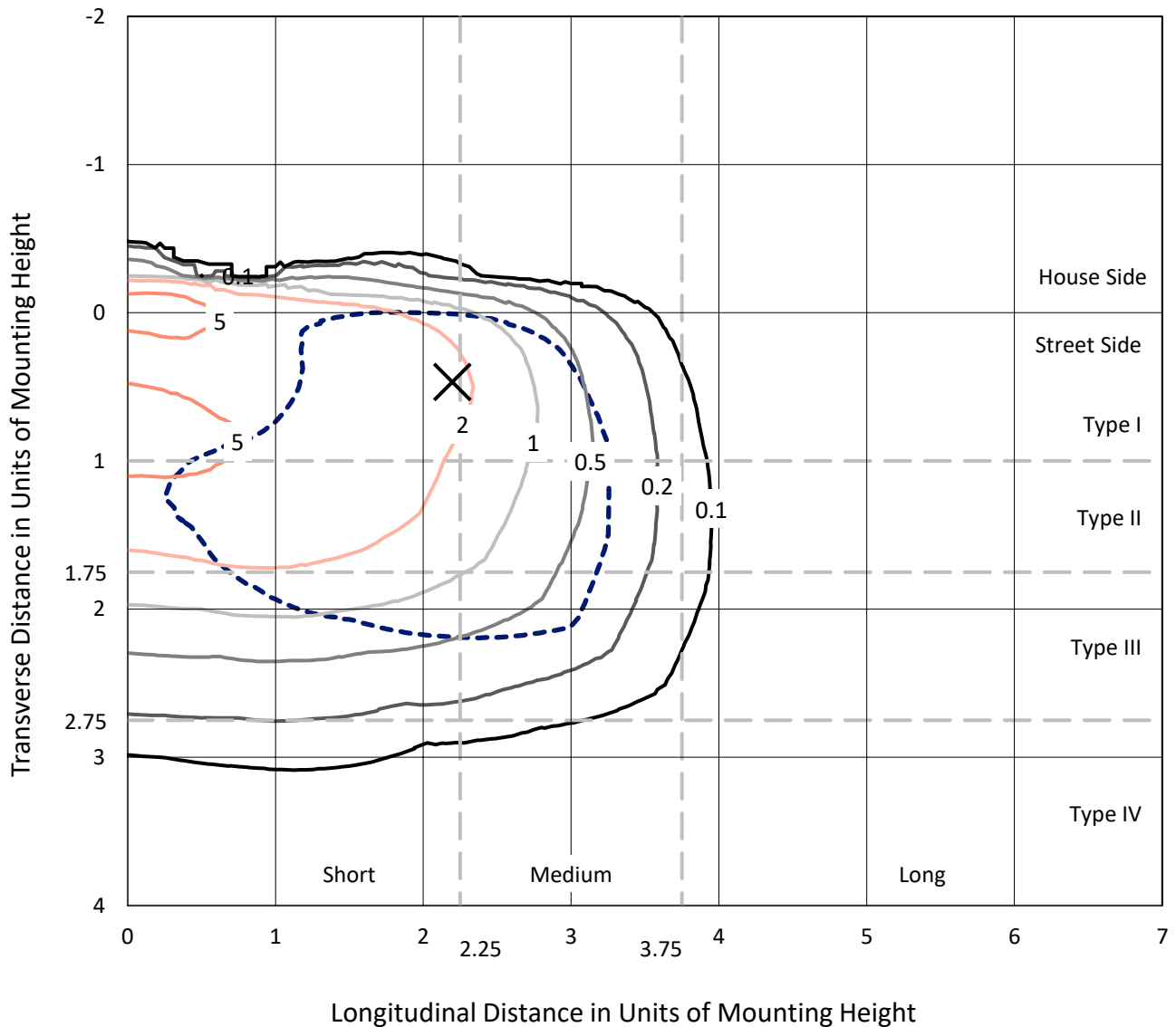
Lumens per Lamp: N/A
Luminaire Lumens: 35321 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

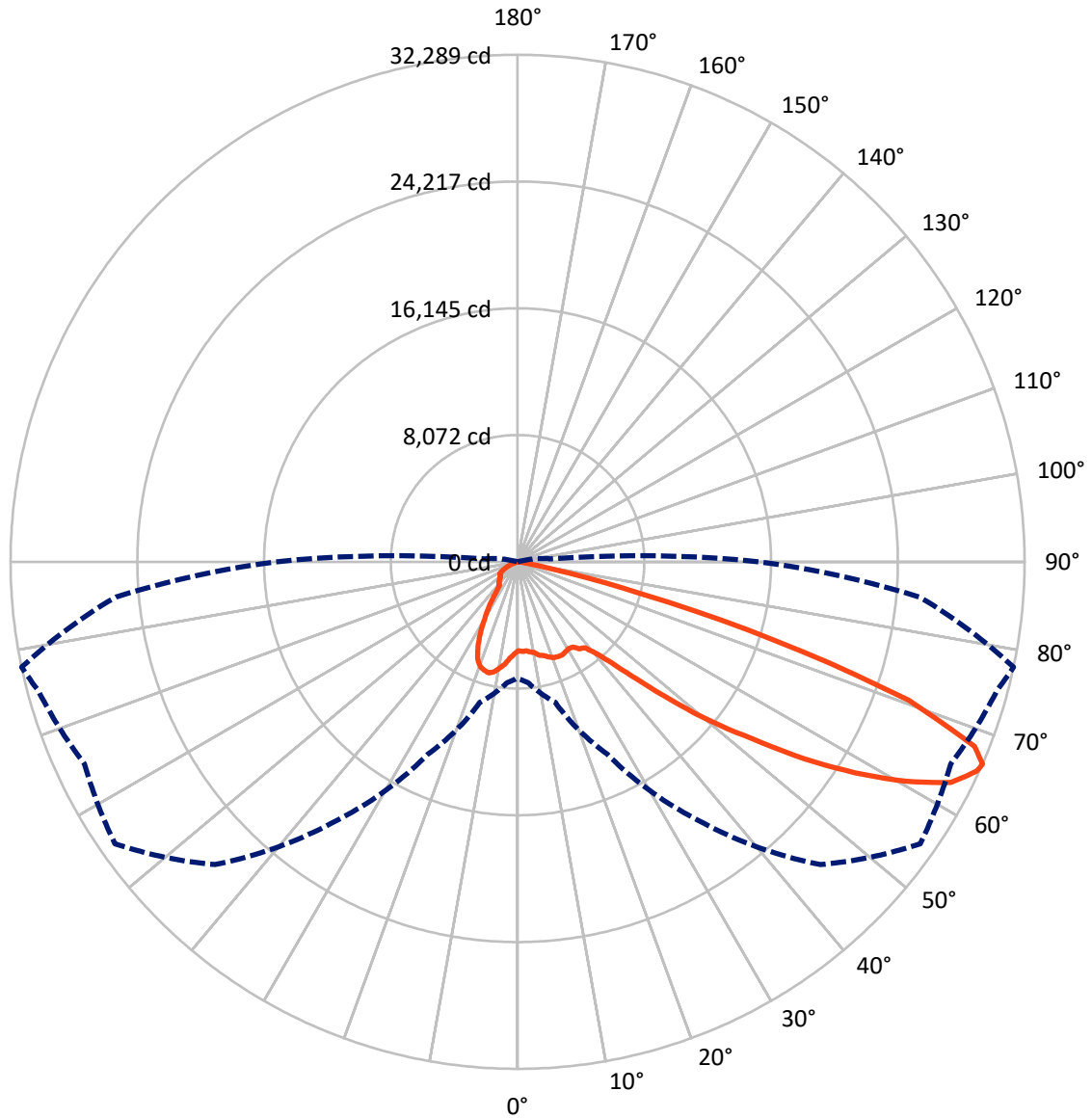
× Max cd
 - - - 1/2 Max cd



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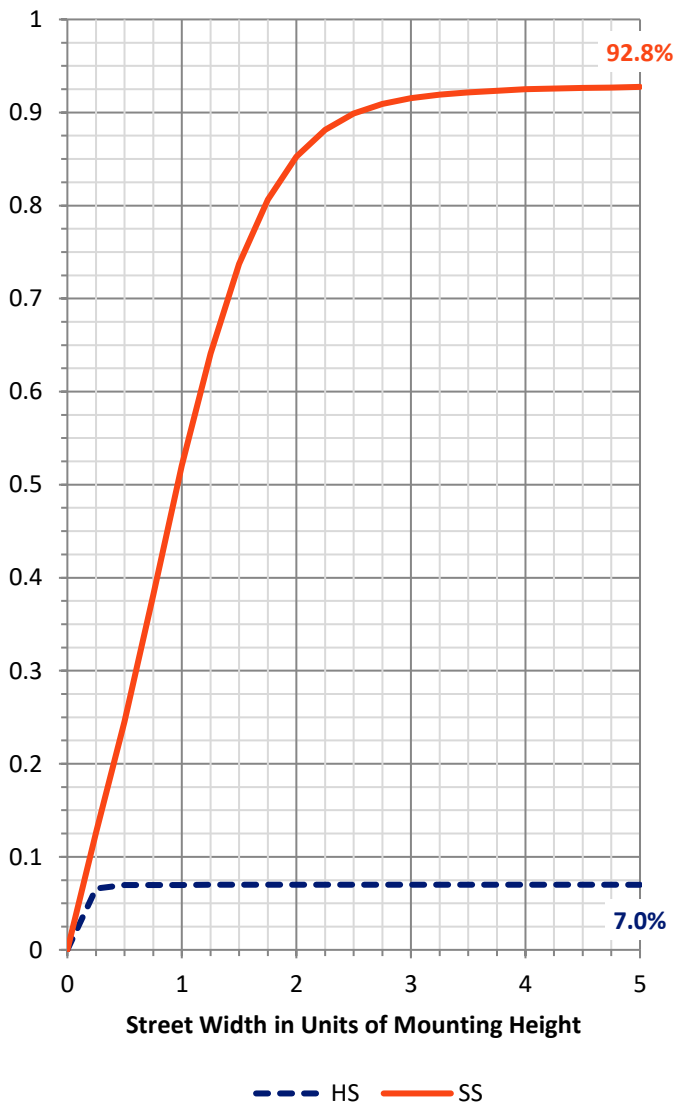
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2483.2	0.0	2483.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	32837.8	0.0	32837.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	35321.0	0.0	35321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.6	1.5
10°-20°	1168.3	3.3
20°-30°	1669.9	4.7
30°-40°	2858.4	8.1
40°-50°	5159.1	14.6
50°-60°	8822.7	25.0
60°-70°	10859.3	30.7
70°-80°	4105.4	11.6
80°-90°	160.4	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°	35321.0	100.0
0°-180°	35321.0	100.0

Coefficient of Utilization



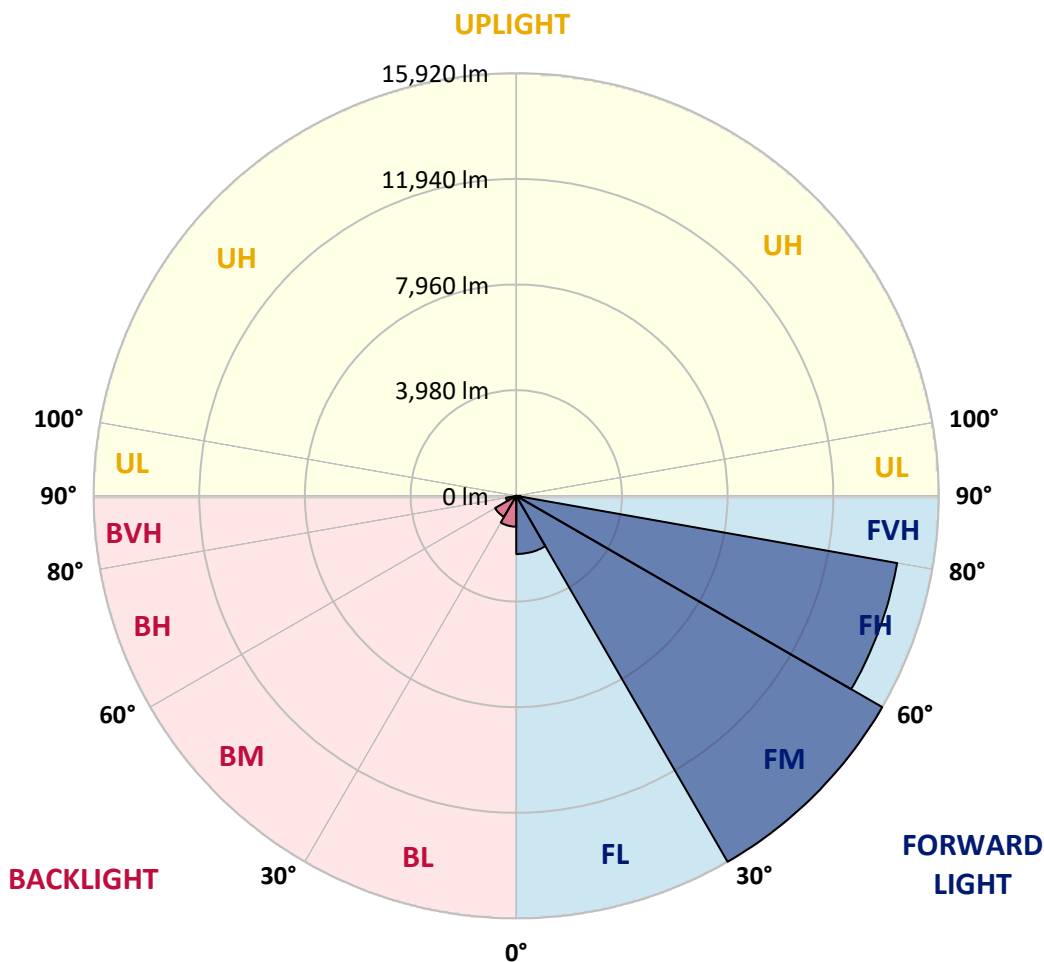
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2192.7	6.2			
FM (30°-60°)	15919.9	45.1			
FH (60°-80°)	14571.2	41.3			G5
FVH (80°-90°)	153.9	0.4			G2/225
BL (0°-30°)	1163.0	3.3	B3/2500		
BM (30°-60°)	920.4	2.6	B1/1000		
BH (60°-80°)	393.4	1.1	B1/500		G1/500
BVH (80°-90°)	6.4	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°	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3
2.5°	5203.6	5155.6	5203.6	5273.0	5310.4	5342.4	5454.5	5550.5	5651.9	5721.3
5°	4824.7	4915.4	4926.1	4947.5	5006.2	5198.3	5262.3	5427.8	5678.6	5700.0
7.5°	4525.8	4499.1	4568.5	4707.3	4856.7	4968.8	5155.6	5443.8	5705.3	5796.0
10°	4093.5	4146.9	4221.6	4360.4	4541.8	4819.4	5150.3	5470.5	5844.1	5876.1
12.5°	3858.7	3805.3	3922.7	4066.8	4376.4	4632.6	5038.2	5422.5	5929.5	6105.6
15°	3666.6	3693.2	3805.3	3901.4	4157.6	4483.1	4958.1	5539.9	6073.6	6196.3
17.5°	3586.5	3570.5	3655.9	3752.0	4066.8	4435.1	4926.1	5545.2	6201.7	6361.8
20°	3623.9	3655.9	3629.2	3719.9	3917.4	4291.0	4974.1	5646.6	6297.7	6516.5
22.5°	4210.9	4168.2	3954.8	3784.0	3794.6	4232.3	4936.8	5710.7	6383.1	6559.2
25°	5742.7	5513.2	4984.8	4328.4	3896.1	4072.2	4894.1	5689.3	6367.1	6585.9
27.5°	7285.1	7087.6	6569.9	5550.5	4307.0	4008.1	4744.6	5705.3	6287.1	6489.9
30°	8912.9	9019.6	8251.1	7039.6	5385.1	4360.4	4648.6	5619.9	6233.7	6404.5
32.5°	10583.4	10540.7	10076.4	8763.5	6927.5	5139.6	4803.4	5705.3	6303.1	6468.5
35°	11891.0	11741.5	11271.9	10087.0	8203.1	6313.7	5337.1	6110.9	6607.3	6804.8
37.5°	12536.8	12600.8	12328.6	11298.6	9601.4	7402.5	6004.2	6110.9	6703.3	6932.8
40°	13038.4	13230.6	13129.2	12798.3	10989.0	8630.0	6740.7	6489.9	7189.0	7621.3
42.5°	13641.5	13550.8	14148.5	13844.3	12803.6	10177.8	8032.3	7391.8	8336.5	8752.8
45°	13961.7	14308.7	14762.3	15151.9	14484.8	12109.8	9718.8	8987.6	10092.4	10620.7
47.5°	14783.7	14922.4	15658.9	16149.9	15851.1	14319.3	12280.6	11319.9	12301.9	13134.5
50°	15264.0	15077.2	16107.2	16854.4	17025.2	16149.9	14575.5	13828.3	14927.8	15989.8
52.5°	14842.4	15376.1	16406.1	17745.7	18220.7	17783.1	17270.7	16945.2	17719.0	18701.1
55°	13364.0	13726.9	16235.3	18722.4	20254.1	20051.3	20526.3	20312.8	21092.1	22132.8
57.5°	12173.8	12627.5	14831.7	19229.4	22148.8	22746.5	23344.3	23210.9	24150.2	25351.0
60°	11432.0	11693.5	13817.6	19101.3	23269.6	25532.5	26882.8	25943.4	27475.2	28393.2
62.5°	10145.8	10311.2	12339.3	17404.2	23605.8	27501.9	29791.5	28515.9	29844.8	30965.6
65°	8133.7	8582.0	10257.8	14863.7	21385.6	27864.8	31606.1	30106.4	31392.6	32129.1
66°	7402.5	7728.1	9265.1	13518.8	20120.7	27261.7	31301.9	30437.3	31616.7	32289.2
67.5°	6143.0	6425.8	7648.0	11602.8	17532.2	25932.8	31515.3	30213.1	31787.5	31376.6
70°	4066.8	4248.3	5230.3	7845.5	12211.2	21214.8	29231.1	28462.5	27944.8	26402.4
72.5°	1900.0	2161.5	3266.3	4755.3	7162.3	14842.4	23835.3	22805.3	19597.7	17132.0
75°	859.3	976.7	1793.3	2727.2	3212.9	7690.7	15376.1	13887.0	9756.1	8101.7
77.5°	464.3	528.4	875.3	1296.9	1168.8	2695.2	7610.6	6329.8	3074.1	2252.2
80°	357.6	421.6	731.2	741.9	432.3	699.2	2828.6	1958.7	768.5	581.7
82.5°	186.8	266.9	576.4	480.3	218.8	282.9	875.3	544.4	240.2	192.1
85°	74.7	117.4	325.6	320.2	128.1	96.1	245.5	165.4	96.1	80.1
87.5°	5.3	5.3	176.1	122.8	80.1	26.7	37.4	37.4	48.0	42.7
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°
5657.3	0°	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3	5657.3
5700.0	2.5°	5796.0	5860.1	5870.8	6046.9	6084.2	6046.9	6143.0	6126.9	6169.6	6137.6
5796.0	5°	5929.5	6020.2	6196.3	6329.8	6329.8	6223.0	6137.6	6025.5	5860.1	5817.4
5982.8	7.5°	6159.0	6447.2	6607.3	6521.9	6351.1	5950.8	5395.8	4990.2	4648.6	4520.5
6223.0	10°	6564.6	6724.7	6911.5	6564.6	5854.8	5006.2	4072.2	3458.4	2978.1	2871.3
6505.9	12.5°	6826.1	7082.3	7189.0	6329.8	4936.8	3671.9	2657.9	1964.0	1627.8	1371.6
6804.8	15°	7167.7	7461.2	7242.4	5694.6	3890.7	2407.0	1377.0	859.3	699.2	656.5
7007.6	17.5°	7402.5	7722.7	7023.6	4904.8	2759.3	1280.9	683.1	592.4	581.7	587.1
7226.4	20°	7813.5	8005.6	6692.7	3986.8	1649.2	656.5	549.7	528.4	517.7	533.7
7375.8	22.5°	7968.2	8144.4	6153.6	2887.3	741.9	437.6	411.0	394.9	405.6	400.3
7466.5	25°	7957.6	8048.3	5267.7	1654.5	218.8	170.8	154.8	154.8	144.1	149.4
7317.1	27.5°	8037.6	7813.5	4275.0	491.0	0.0	0.0	0.0	0.0	0.0	0.0
7349.1	30°	8080.3	7434.5	3042.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7535.9	32.5°	8101.7	7237.1	1958.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7802.8	35°	8267.1	6842.1	837.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8235.1	37.5°	8379.2	6335.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9046.3	40°	8843.5	6175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10263.2	42.5°	9446.6	5876.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12072.4	45°	10284.5	5433.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14143.2	47.5°	11394.6	5171.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16080.6	50°	12221.9	4760.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18263.4	52.5°	13273.3	4515.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20814.5	55°	14522.1	4525.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22976.0	57.5°	15658.9	4451.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24667.9	60°	16240.7	3805.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25884.7	62.5°	16117.9	3079.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26253.0	65°	15691.0	2417.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25687.3	66°	15397.4	2140.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24929.4	67.5°	14506.1	1713.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19490.9	70°	11544.1	1174.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12296.6	72.5°	7343.8	720.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5385.1	75°	3383.7	330.9	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1563.8	77.5°	1062.1	202.8	42.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
373.6	80°	277.5	128.1	42.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0
160.1	82.5°	144.1	90.7	37.4	16.0	10.7	0.0	0.0	0.0	0.0	0.0
74.7	85°	90.7	37.4	16.0	10.7	10.7	0.0	0.0	0.0	0.0	0.0
53.4	87.5°	80.1	21.3	10.7	10.7	5.3	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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