

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: P575259

Luminaire Tested: **EPH-VN-07-740-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575259
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-740-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

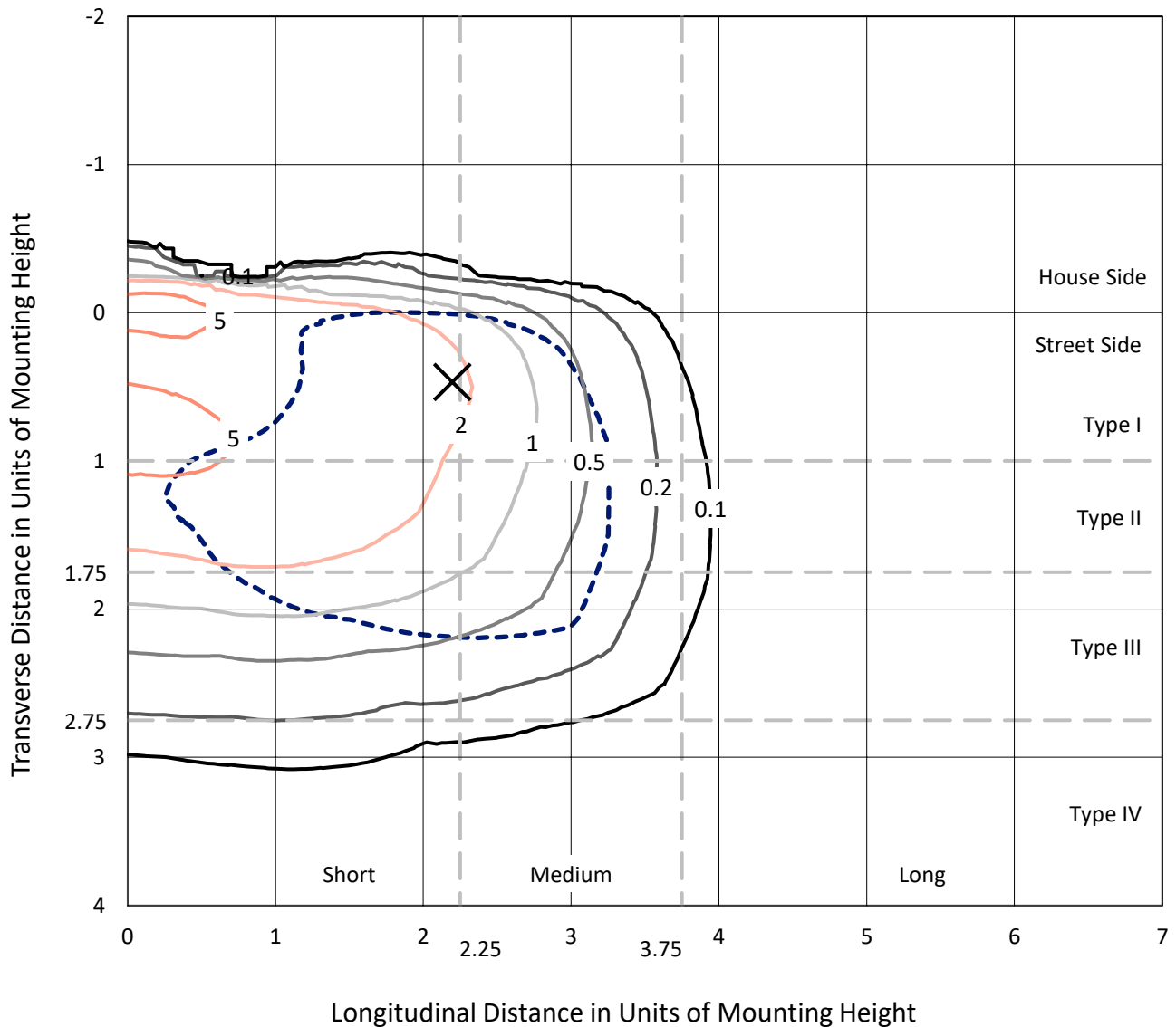
Lumens per Lamp: N/A
Luminaire Lumens: 34966.2 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

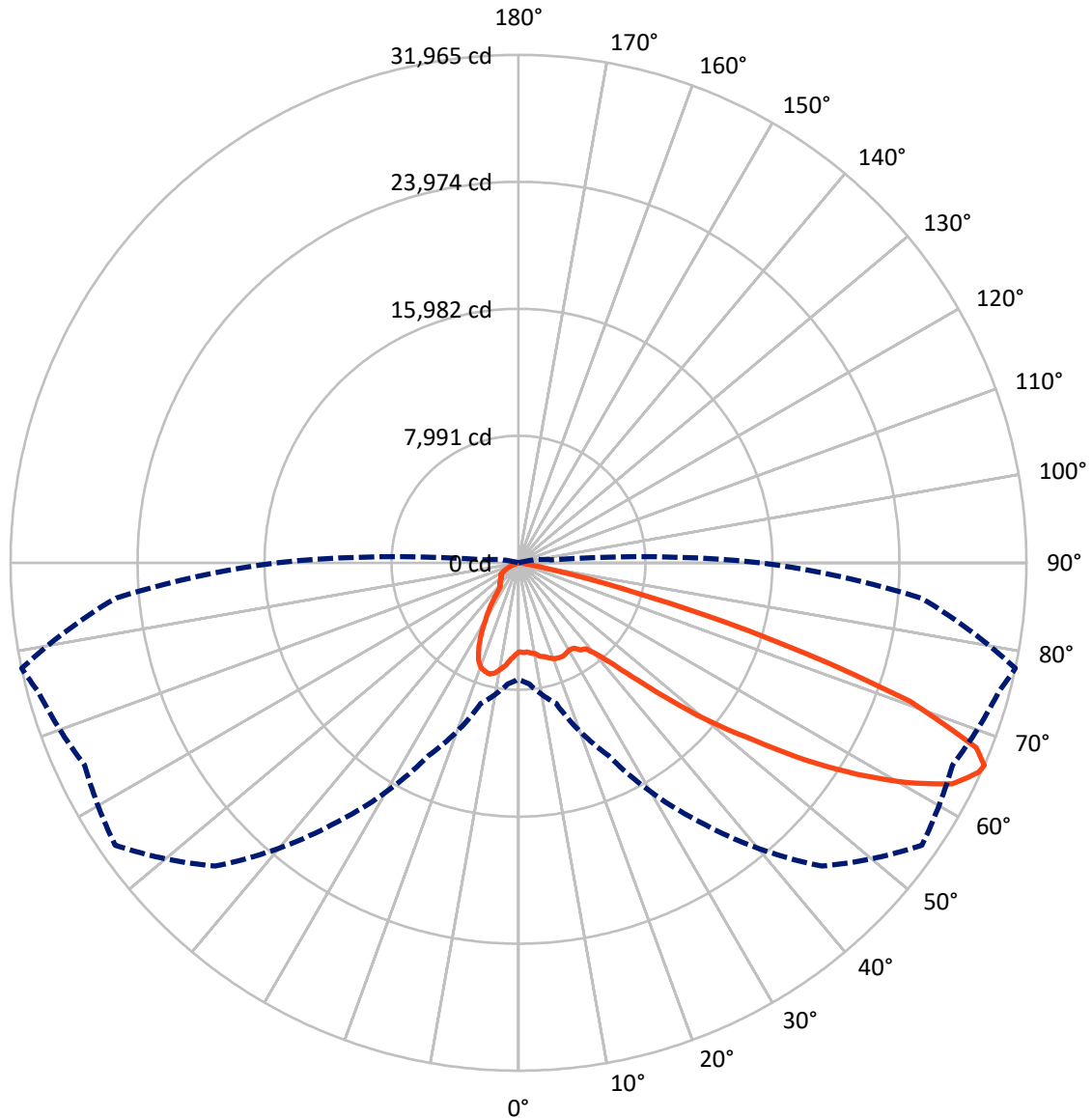
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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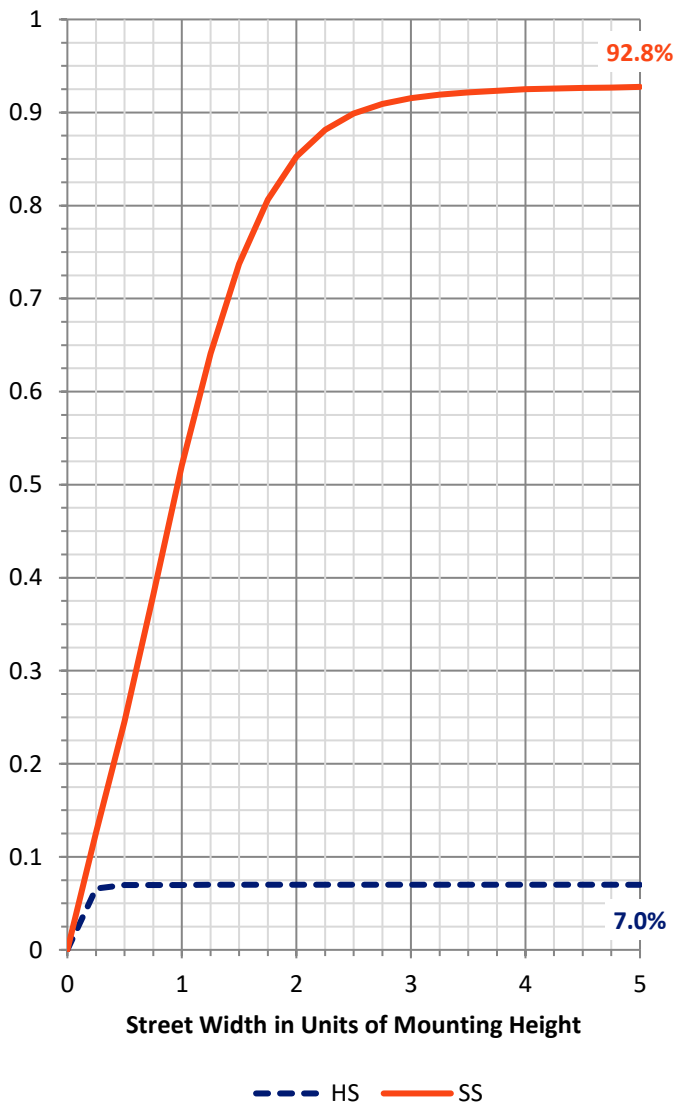
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2458.3	0.0	2458.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	32507.9	0.0	32507.9
	% Fixture	93.0	0.0	93.0
Total	Lumens	34966.2	0.0	34966.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.4	1.5
10°-20°	1156.6	3.3
20°-30°	1653.1	4.7
30°-40°	2829.7	8.1
40°-50°	5107.3	14.6
50°-60°	8734.1	25.0
60°-70°	10750.2	30.7
70°-80°	4064.2	11.6
80°-90°	158.8	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°	34966.2	100.0
0°-180°	34966.2	100.0



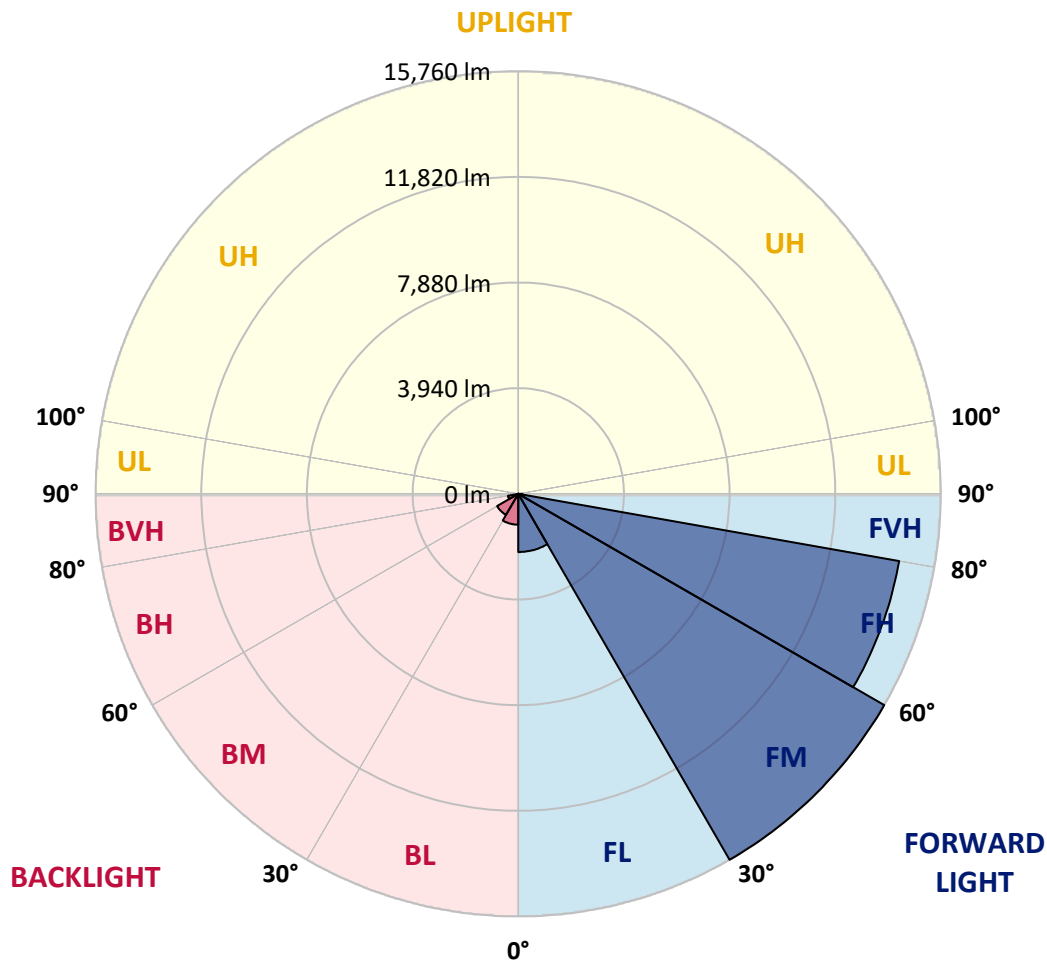
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2170.7	6.2			
FM (30°-60°)	15760.0	45.1			
FH (60°-80°)	14424.8	41.3			G5
FVH (80°-90°)	152.4	0.4			G2/225
BL (0°-30°)	1151.3	3.3	B3/2500		
BM (30°-60°)	911.1	2.6	B1/1000		
BH (60°-80°)	389.5	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°	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5
2.5°	5151.4	5103.8	5151.4	5220.0	5257.0	5288.7	5399.7	5494.8	5595.2	5663.9
5°	4776.2	4866.1	4876.6	4897.8	4955.9	5146.1	5209.5	5373.3	5621.6	5642.7
7.5°	4480.4	4453.9	4522.6	4660.0	4807.9	4918.9	5103.8	5389.1	5648.0	5737.8
10°	4052.4	4105.2	4179.2	4316.6	4496.2	4771.0	5098.5	5415.5	5785.4	5817.1
12.5°	3819.9	3767.1	3883.3	4026.0	4332.4	4586.0	4987.6	5368.0	5869.9	6044.3
15°	3629.7	3656.1	3767.1	3862.2	4115.8	4438.1	4908.3	5484.2	6012.6	6134.1
17.5°	3550.5	3534.6	3619.2	3714.3	4026.0	4390.5	4876.6	5489.5	6139.4	6297.9
20°	3587.5	3619.2	3592.7	3682.6	3878.0	4247.9	4924.2	5589.9	6234.5	6451.1
22.5°	4168.6	4126.4	3915.0	3746.0	3756.5	4189.8	4887.2	5653.3	6319.0	6493.4
25°	5685.0	5457.8	4934.7	4284.9	3856.9	4031.3	4844.9	5632.2	6303.2	6519.8
27.5°	7211.9	7016.4	6503.9	5494.8	4263.7	3967.9	4697.0	5648.0	6223.9	6424.7
30°	8823.4	8929.0	8168.2	6968.9	5331.0	4316.6	4601.9	5563.5	6171.1	6340.1
32.5°	10477.1	10434.8	9975.1	8675.4	6857.9	5088.0	4755.1	5648.0	6239.8	6403.5
35°	11771.5	11623.6	11158.6	9985.7	8120.7	6250.3	5283.4	6049.5	6540.9	6736.4
37.5°	12410.8	12474.2	12204.8	11185.1	9504.9	7328.1	5943.9	6049.5	6636.0	6863.2
40°	12907.5	13097.7	12997.3	12669.7	10878.6	8543.3	6673.0	6424.7	7116.8	7544.8
42.5°	13504.5	13414.7	14006.4	13705.3	12675.0	10075.5	7951.6	7317.6	8252.7	8664.9
45°	13821.5	14164.9	14614.0	14999.7	14339.3	11988.1	9621.2	8897.3	9991.0	10514.1
47.5°	14635.1	14772.5	15501.6	15987.7	15691.8	14175.5	12157.2	11206.2	12178.3	13002.6
50°	15110.7	14925.7	15945.4	16685.1	16854.2	15987.7	14429.1	13689.4	14777.8	15829.2
52.5°	14693.3	15221.6	16241.3	17567.5	18037.7	17604.4	17097.2	16774.9	17541.0	18513.2
55°	13229.8	13589.0	16072.2	18534.3	20050.7	19849.9	20320.1	20108.8	20880.2	21910.5
57.5°	12051.5	12500.6	14682.7	19036.3	21926.3	22518.0	23109.8	22977.7	23907.6	25096.4
60°	11317.1	11576.0	13678.8	18909.5	23035.8	25276.0	26612.7	25682.8	27199.2	28107.9
62.5°	10043.8	10207.6	12215.3	17229.3	23368.7	27225.6	29492.2	28229.5	29545.0	30654.6
65°	8052.0	8495.8	10154.8	14714.4	21170.8	27584.9	31288.6	29803.9	31077.2	31806.3
66°	7328.1	7650.4	9172.1	13383.0	19918.6	26987.8	30987.4	30131.5	31299.1	31964.9
67.5°	6081.2	6361.3	7571.2	11486.2	17356.1	25672.3	31198.8	29909.6	31468.2	31061.4
70°	4026.0	4205.6	5177.8	7766.7	12088.5	21001.7	28937.4	28176.6	27664.1	26137.2
72.5°	1880.9	2139.8	3233.5	4707.6	7090.4	14693.3	23595.9	22576.2	19400.8	16959.9
75°	850.6	966.9	1775.2	2699.8	3180.6	7613.4	15221.6	13747.5	9658.1	8020.3
77.5°	459.7	523.1	866.5	1283.9	1157.1	2668.1	7534.2	6266.2	3043.3	2229.6
80°	354.0	417.4	723.8	734.4	428.0	692.1	2800.2	1939.0	760.8	575.9
82.5°	184.9	264.2	570.6	475.5	216.6	280.0	866.5	538.9	237.8	190.2
85°	74.0	116.2	322.3	317.0	126.8	95.1	243.0	163.8	95.1	79.3
87.5°	5.3	5.3	174.4	121.5	79.3	26.4	37.0	37.0	47.6	42.3
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°
5600.5	0°	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5
5642.7	2.5°	5737.8	5801.2	5811.8	5986.1	6023.1	5986.1	6081.2	6065.4	6107.7	6076.0
5737.8	5°	5869.9	5959.7	6134.1	6266.2	6266.2	6160.5	6076.0	5965.0	5801.2	5759.0
5922.7	7.5°	6097.1	6382.4	6540.9	6456.4	6287.3	5891.0	5341.6	4940.0	4601.9	4475.1
6160.5	10°	6498.6	6657.1	6842.1	6498.6	5795.9	4955.9	4031.3	3423.7	2948.2	2842.5
6440.5	12.5°	6757.5	7011.1	7116.8	6266.2	4887.2	3635.0	2631.2	1944.3	1611.5	1357.8
6736.4	15°	7095.7	7386.3	7169.6	5637.4	3851.6	2382.8	1363.1	850.6	692.1	649.9
6937.2	17.5°	7328.1	7645.1	6953.0	4855.5	2731.5	1268.0	676.3	586.5	575.9	581.2
7153.8	20°	7735.0	7925.2	6625.4	3946.7	1632.6	649.9	544.2	523.1	512.5	528.3
7301.7	22.5°	7888.2	8062.5	6091.8	2858.3	734.4	433.2	406.8	391.0	401.5	396.3
7391.5	25°	7877.6	7967.4	5214.8	1637.9	216.6	169.1	153.2	153.2	142.7	147.9
7243.6	27.5°	7956.9	7735.0	4232.0	486.1	0.0	0.0	0.0	0.0	0.0	0.0
7275.3	30°	7999.1	7359.8	3011.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7460.2	32.5°	8020.3	7164.4	1939.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7724.4	35°	8184.1	6773.4	829.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8152.4	37.5°	8295.0	6271.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8955.4	40°	8754.7	6112.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10160.1	42.5°	9351.7	5817.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11951.2	45°	10181.2	5378.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14001.1	47.5°	11280.2	5119.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15919.0	50°	12099.1	4712.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18080.0	52.5°	13139.9	4469.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20605.4	55°	14376.3	4480.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22745.2	57.5°	15501.6	4406.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24420.1	60°	16077.5	3767.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25624.7	62.5°	15956.0	3048.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25989.3	65°	15533.3	2393.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25429.2	66°	15242.7	2118.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24679.0	67.5°	14360.4	1696.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19295.1	70°	11428.1	1162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12173.1	72.5°	7270.0	713.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5331.0	75°	3349.7	327.6	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1548.0	77.5°	1051.4	200.8	42.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
369.8	80°	274.7	126.8	42.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
158.5	82.5°	142.7	89.8	37.0	15.9	10.6	0.0	0.0	0.0	0.0	0.0
74.0	85°	89.8	37.0	15.9	10.6	10.6	0.0	0.0	0.0	0.0	0.0
52.8	87.5°	79.3	21.1	10.6	10.6	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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