

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: P575443

Luminaire Tested: **EPH-VN-03-730-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575443
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

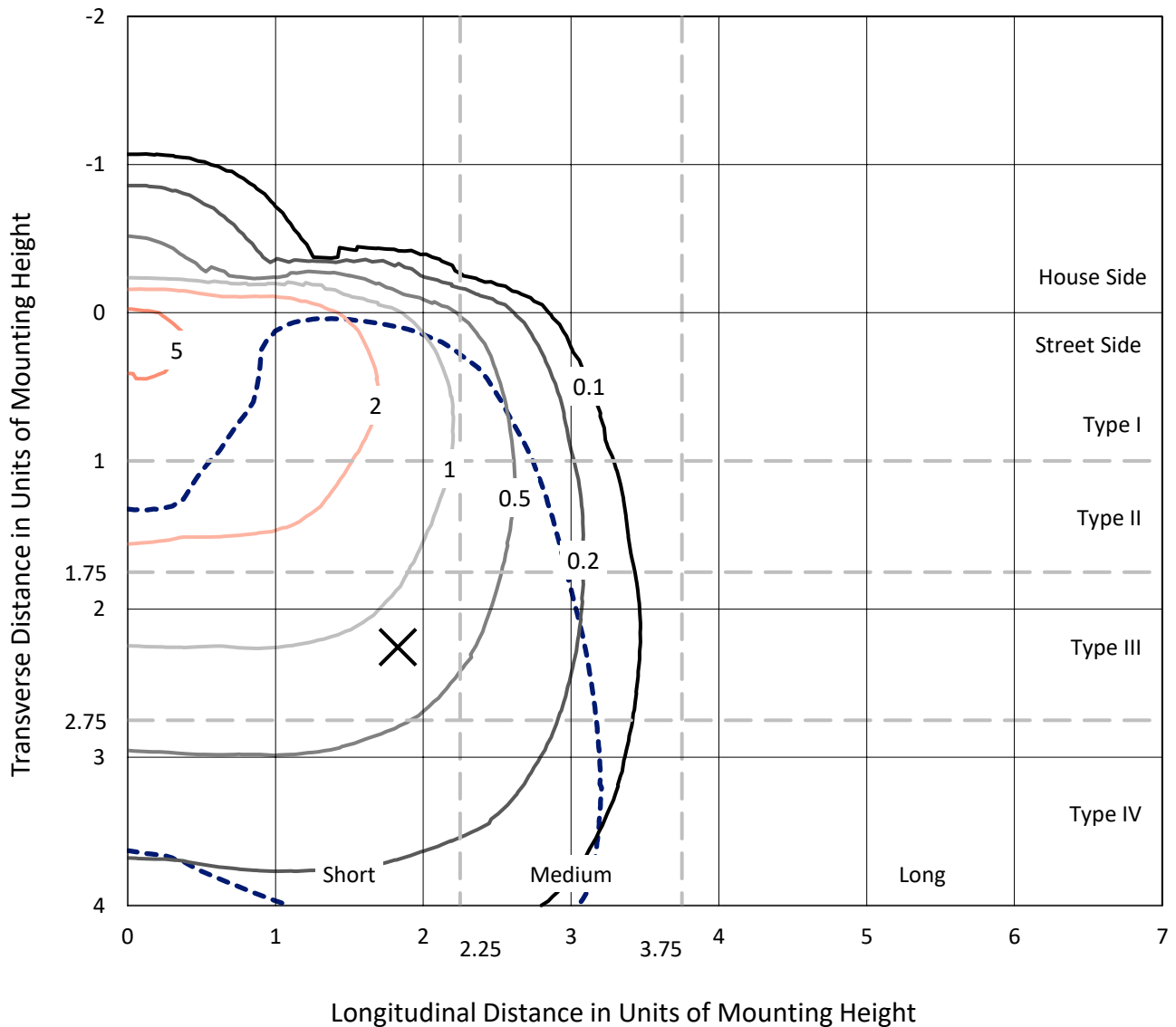
Lumens per Lamp: N/A
Luminaire Lumens: 20291 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
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

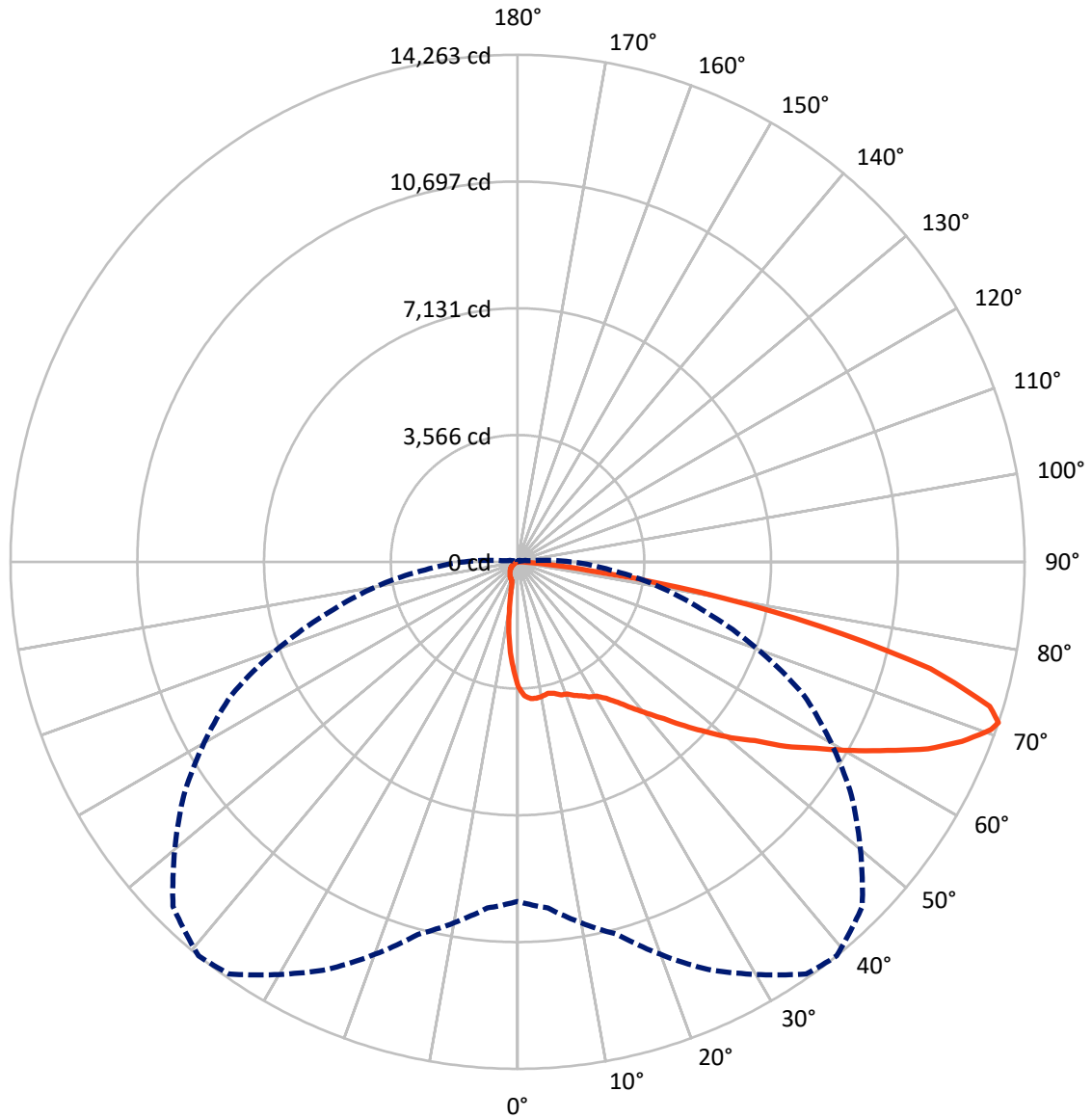
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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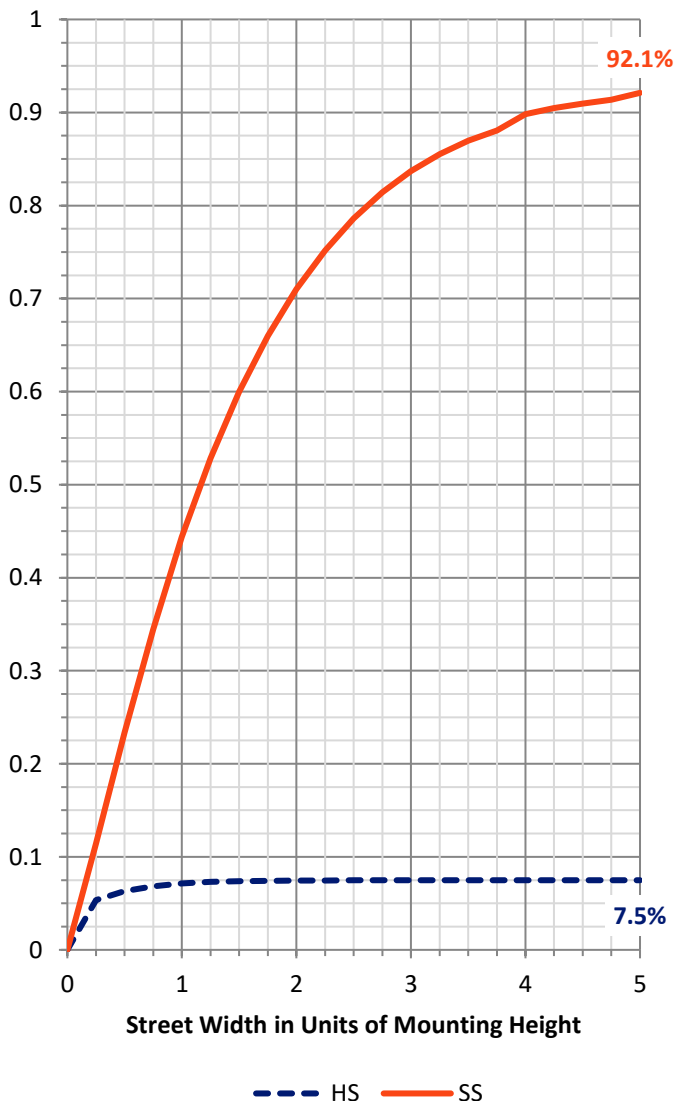
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1527.6	0.0	1527.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18763.4	0.0	18763.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	20291.0	0.0	20291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.5
10°-20°	726.8	3.6
20°-30°	1166.7	5.8
30°-40°	1786.0	8.8
40°-50°	2866.8	14.1
50°-60°	4210.9	20.8
60°-70°	5303.5	26.1
70°-80°	3539.4	17.4
80°-90°	395.6	1.9
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°	20291.0	100.0
0°-180°	20291.0	100.0

Coefficient of Utilization



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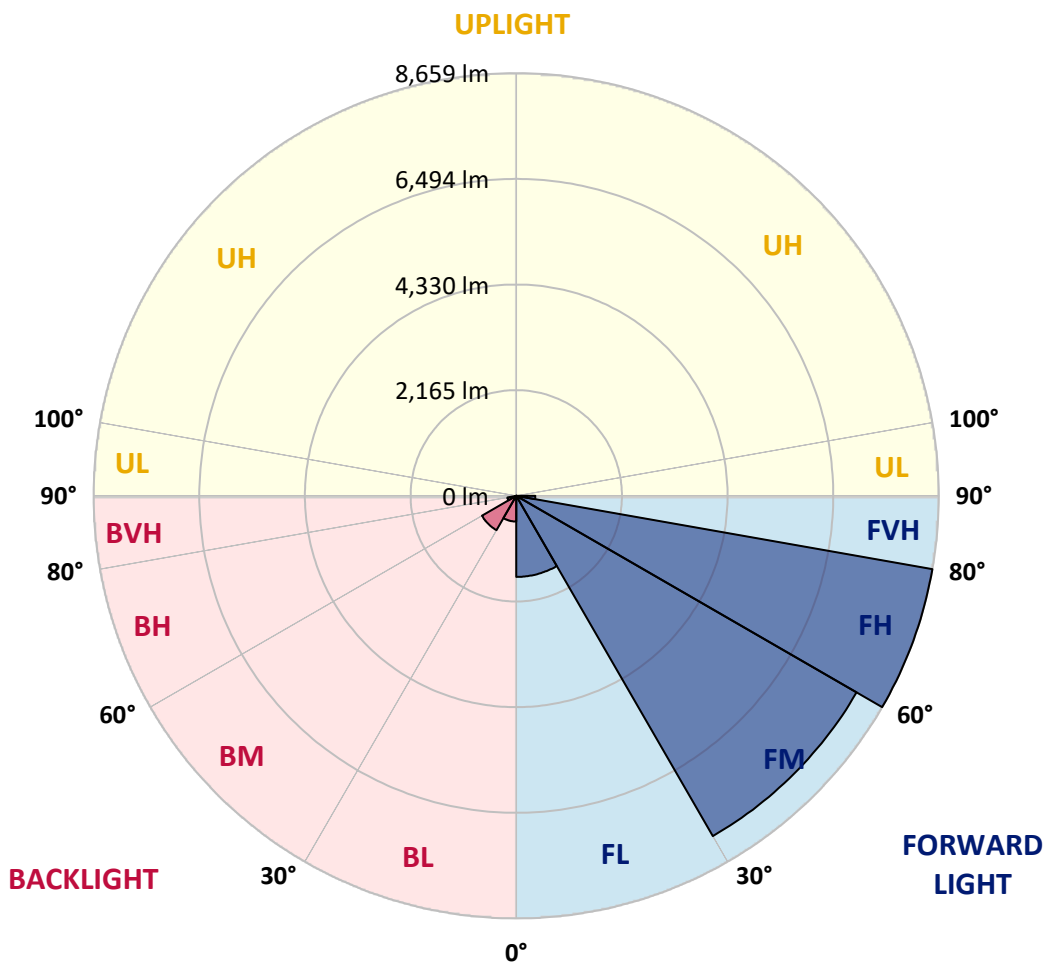
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.4	8.2			
FM (30°-60°)	8051.8	39.7			
FH (60°-80°)	8659.1	42.7			G4/12000
FVH (80°-90°)	391.2	1.9			G3/500
BL (0°-30°)	527.4	2.6	B2/1000		
BM (30°-60°)	812.0	4.0	B1/1000		
BH (60°-80°)	183.9	0.9	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8
2.5°	3805.9	3843.2	3805.9	3789.9	3774.0	3776.6	3734.1	3742.0	3691.5	3624.9
5°	3925.7	3976.3	3936.3	3917.7	3915.0	3864.5	3843.2	3792.6	3731.4	3627.6
7.5°	3915.0	3904.4	3923.0	3907.1	3872.5	3872.5	3848.5	3776.6	3715.4	3598.3
10°	3835.2	3867.1	3851.2	3832.5	3840.5	3843.2	3797.9	3747.4	3728.7	3611.6
12.5°	3827.2	3774.0	3832.5	3835.2	3800.6	3797.9	3792.6	3779.3	3720.7	3614.3
15°	3800.6	3779.3	3837.9	3840.5	3848.5	3840.5	3848.5	3837.9	3779.3	3718.1
17.5°	3821.9	3797.9	3880.4	3920.4	3901.7	3939.0	3925.7	3877.8	3827.2	3755.3
20°	3827.2	3861.8	3952.3	3968.3	4026.8	3965.6	3962.9	3912.4	3880.4	3803.3
22.5°	3925.7	3941.7	4053.4	4088.0	4090.7	4082.7	4016.2	3957.6	3944.3	3848.5
25°	4074.7	4130.6	4181.2	4202.5	4210.5	4173.2	4104.0	4029.5	3997.5	3936.3
27.5°	4338.2	4303.6	4348.9	4380.8	4290.3	4303.6	4215.8	4151.9	4106.7	4053.4
30°	4572.4	4540.5	4543.1	4537.8	4460.6	4388.8	4364.8	4253.0	4197.2	4218.4
32.5°	4782.7	4713.5	4772.0	4745.4	4601.7	4580.4	4561.8	4420.7	4431.4	4529.8
35°	4977.0	4953.0	5000.9	4953.0	4857.2	4851.9	4833.2	4710.8	4769.4	4910.4
37.5°	5155.3	5163.3	5221.8	5197.9	5205.9	5211.2	5200.5	5070.1	5237.8	5554.5
40°	5320.3	5309.7	5453.4	5527.9	5543.9	5602.4	5602.4	5570.5	5828.6	6185.3
42.5°	5496.0	5522.6	5708.9	5834.0	5985.7	6036.2	6105.4	6121.4	6520.6	6927.8
45°	5783.4	5738.2	5975.0	6270.4	6403.5	6581.8	6688.3	6778.8	7260.5	7819.4
47.5°	6148.0	6057.5	6265.1	6693.6	7002.4	7148.7	7340.4	7460.1	7931.2	8508.8
50°	6552.6	6459.4	6560.5	7151.4	7510.7	7776.8	8021.7	8173.4	8743.0	9280.6
52.5°	7010.3	6925.2	6941.1	7627.8	8157.4	8351.7	8673.8	8900.0	9466.9	9746.3
55°	7497.4	7476.1	7425.5	8093.6	8724.3	9160.8	9355.1	9626.6	10209.4	9999.2
57.5°	7987.1	7920.6	7992.4	8711.0	9634.6	9895.4	10164.2	10326.5	10622.0	10220.1
60°	8447.5	8452.9	8554.0	9381.7	10409.1	10779.0	11021.2	10922.7	11045.1	10315.9
62.5°	8836.1	8825.5	9081.0	10134.9	11433.7	11683.9	11864.9	11425.7	11242.1	10409.1
65°	9184.8	9304.5	9706.4	11031.8	12397.2	12684.6	12575.5	11902.1	11433.7	10134.9
67.5°	9448.3	9626.6	10323.9	11875.5	13280.8	13483.1	13331.4	12264.1	11207.5	9059.7
70°	9602.6	9783.6	10765.7	12578.2	13986.1	14132.5	13775.8	11984.6	9887.4	6560.5
71°	9554.7	9775.6	10850.9	12652.7	14153.8	14262.9	13709.3	11468.3	8892.0	5493.3
72.5°	9120.9	9328.5	10496.9	12599.4	13951.5	13884.9	13190.3	10228.1	6999.7	3502.5
75°	6701.6	6925.2	9009.1	10898.8	12453.1	11995.3	10675.2	7178.0	3651.6	1072.6
77.5°	3337.5	3374.8	5591.8	7912.6	9134.2	8679.1	7154.1	4002.9	1365.3	316.7
80°	1538.3	1549.0	2097.2	4098.7	5522.6	5197.9	4008.2	1974.8	617.5	167.7
82.5°	1048.6	1064.6	1264.2	1698.0	2398.0	2022.7	1623.5	1264.2	354.0	101.1
85°	191.6	175.7	708.0	899.6	926.2	628.1	561.6	1093.9	133.1	58.6
87.5°	0.0	2.7	98.5	367.3	330.0	146.4	191.6	266.1	13.3	18.6
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°
3531.8	0°	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8
3571.7	2.5°	3526.5	3497.2	3398.7	3289.6	3191.1	3113.9	3015.5	2970.2	2898.4	2858.4
3563.7	5°	3475.9	3396.0	3225.7	3042.1	2837.1	2666.8	2477.8	2371.4	2249.0	2211.7
3489.2	7.5°	3390.7	3276.3	3026.1	2767.9	2453.9	2153.1	1921.6	1674.1	1522.4	1458.5
3433.3	10°	3337.5	3199.1	2858.4	2472.5	2033.4	1610.2	1285.5	1022.0	883.6	817.1
3446.6	12.5°	3337.5	3188.5	2722.7	2190.4	1607.5	1101.9	795.8	644.1	598.8	582.9
3505.2	15°	3329.5	3167.2	2592.3	1900.3	1189.7	739.9	593.5	561.6	556.2	553.6
3561.1	17.5°	3369.4	3129.9	2459.2	1588.9	841.0	582.9	545.6	540.3	535.0	535.0
3595.7	20°	3398.7	3108.6	2299.5	1258.9	628.1	540.3	524.3	516.3	513.7	511.0
3603.6	22.5°	3374.8	3076.7	2102.6	942.2	548.3	513.7	503.0	495.0	489.7	489.7
3686.2	25°	3420.0	3047.4	1905.6	710.6	513.7	489.7	479.1	473.7	471.1	468.4
3782.0	27.5°	3481.2	3060.7	1671.4	572.2	484.4	465.8	455.1	449.8	447.1	441.8
3931.0	30°	3555.7	3058.0	1413.2	500.4	457.8	439.1	428.5	425.8	420.5	417.9
4154.6	32.5°	3683.5	3127.2	1147.1	463.1	428.5	412.5	401.9	399.2	396.6	393.9
4537.8	35°	3957.6	3212.4	896.9	433.8	401.9	383.3	375.3	369.9	367.3	364.6
4985.0	37.5°	4295.6	3401.4	684.0	407.2	375.3	356.6	348.7	346.0	335.3	332.7
5605.1	40°	4718.8	3603.6	527.0	377.9	351.3	332.7	324.7	316.7	303.4	298.1
6238.5	42.5°	5245.8	3800.6	433.8	351.3	324.7	311.4	298.1	284.8	274.1	263.5
6871.9	45°	5772.8	4029.5	380.6	327.4	303.4	287.4	276.8	258.2	239.5	223.6
7470.8	47.5°	6211.9	4112.0	348.7	300.7	282.1	268.8	252.8	228.9	202.3	186.3
7907.3	50°	6539.3	4064.1	316.7	274.1	258.2	244.9	223.6	194.3	167.7	151.7
8061.6	52.5°	6603.1	3853.8	287.4	252.8	234.2	218.2	194.3	162.4	133.1	117.1
8229.3	55°	6557.9	3505.2	263.5	234.2	212.9	189.0	162.4	130.4	103.8	87.8
8165.4	57.5°	6464.7	3092.6	236.9	210.3	186.3	162.4	133.1	106.5	77.2	61.2
8019.0	60°	6148.0	2531.1	210.3	183.6	159.7	138.4	109.1	77.2	53.2	39.9
7763.5	62.5°	5706.2	1945.5	183.6	157.0	138.4	114.4	85.2	55.9	31.9	21.3
7044.9	65°	4899.8	1362.7	154.4	130.4	114.4	93.2	63.9	34.6	18.6	8.0
5738.2	67.5°	3723.4	843.7	127.8	109.1	98.5	74.5	45.2	21.3	8.0	2.7
3579.7	70°	2137.2	439.1	101.1	87.8	77.2	55.9	31.9	10.6	5.3	0.0
2610.9	71°	1493.1	324.7	90.5	77.2	69.2	50.6	26.6	8.0	2.7	0.0
1349.4	72.5°	747.9	215.6	77.2	63.9	55.9	39.9	21.3	8.0	2.7	0.0
393.9	75°	266.1	138.4	53.2	42.6	39.9	29.3	13.3	5.3	2.7	0.0
196.9	77.5°	183.6	111.8	37.3	26.6	26.6	18.6	8.0	2.7	2.7	0.0
154.4	80°	167.7	61.2	24.0	16.0	13.3	10.6	5.3	2.7	0.0	0.0
151.7	82.5°	167.7	45.2	13.3	10.6	8.0	5.3	2.7	0.0	0.0	0.0
133.1	85°	117.1	24.0	8.0	8.0	5.3	2.7	0.0	0.0	0.0	0.0
24.0	87.5°	18.6	8.0	5.3	2.7	2.7	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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