

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: P575224

Luminaire Tested: **EPH-VN-06-750-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575224
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

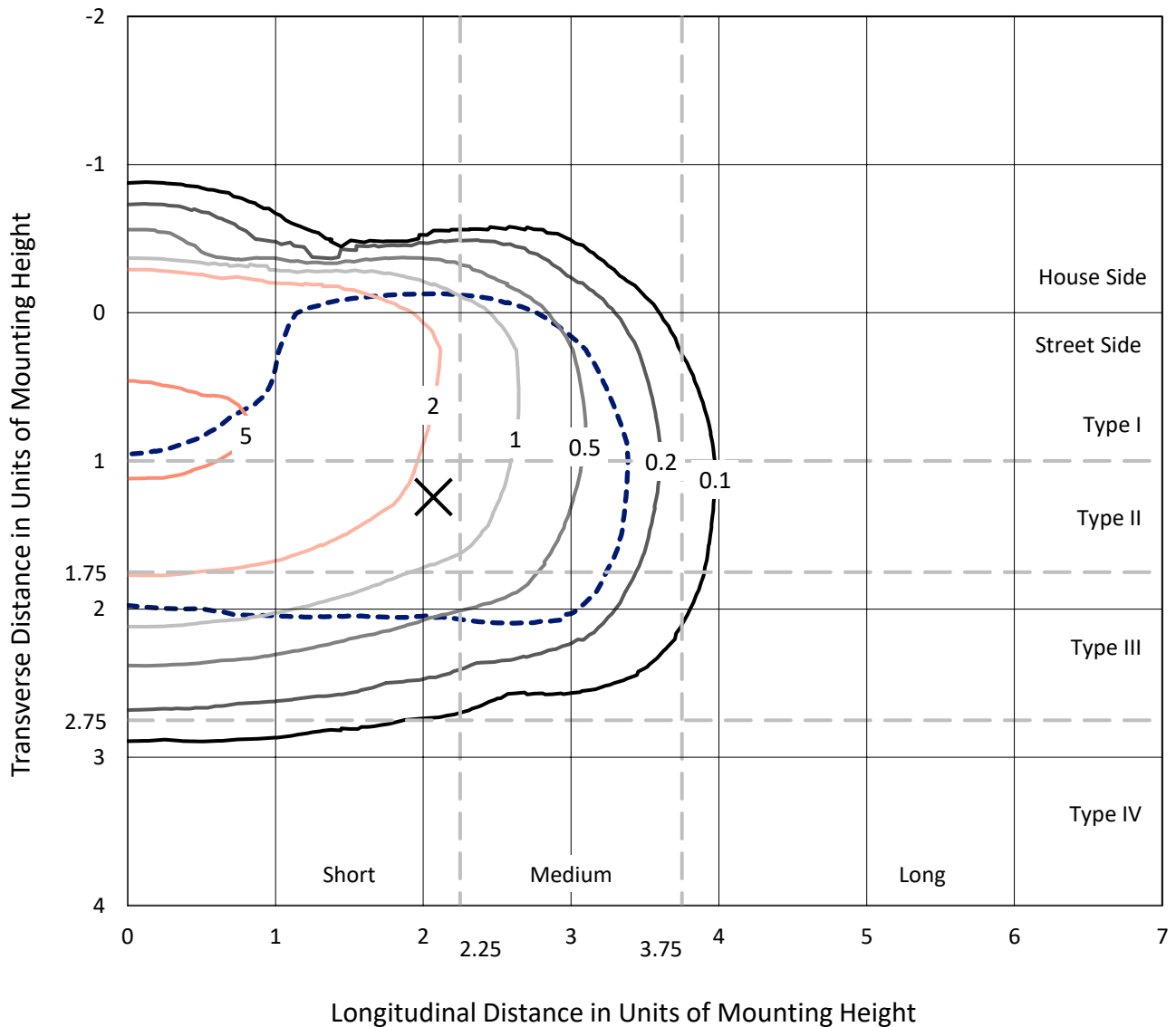
Lumens per Lamp: N/A
Luminaire Lumens: 34703.8 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

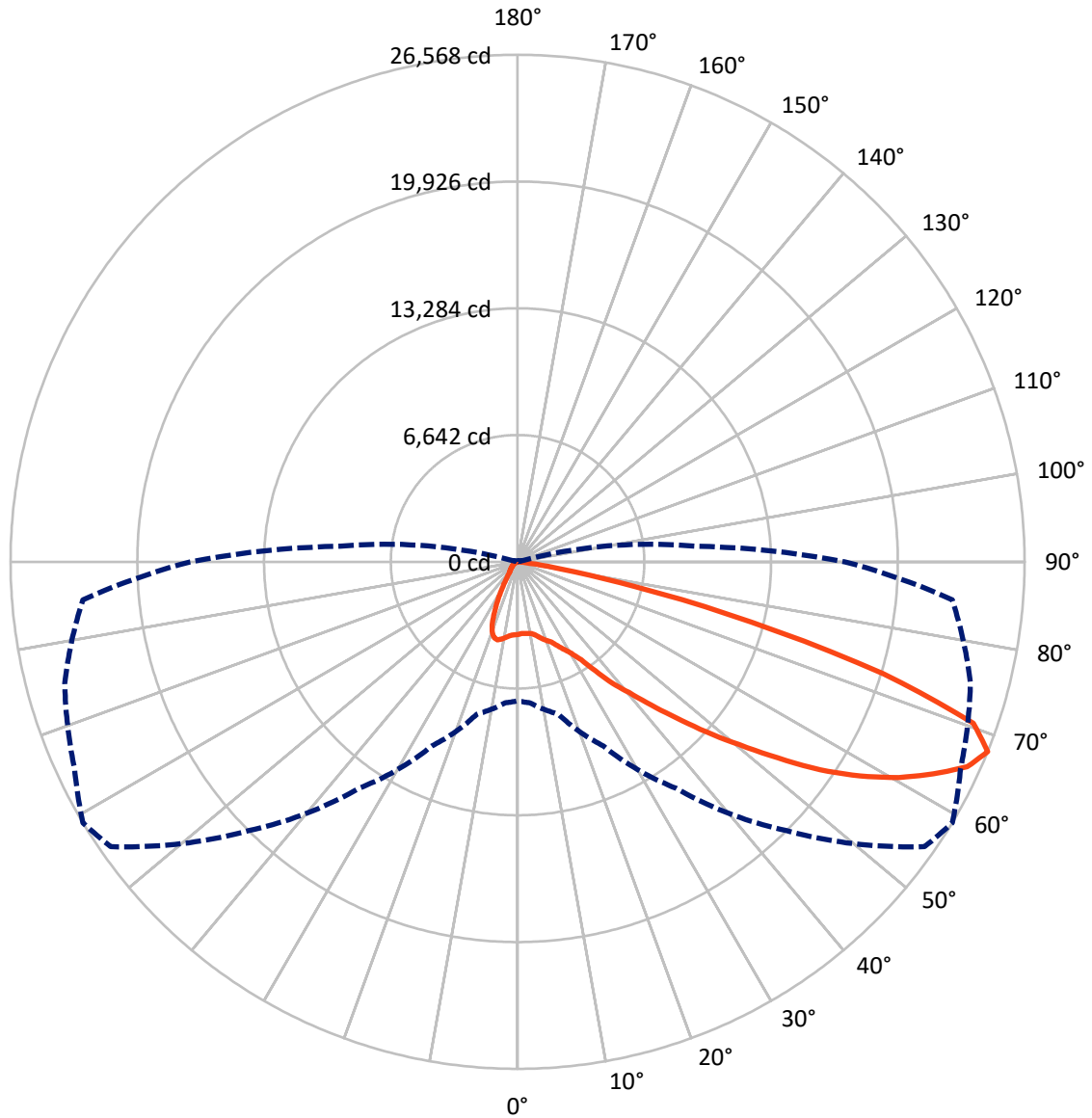
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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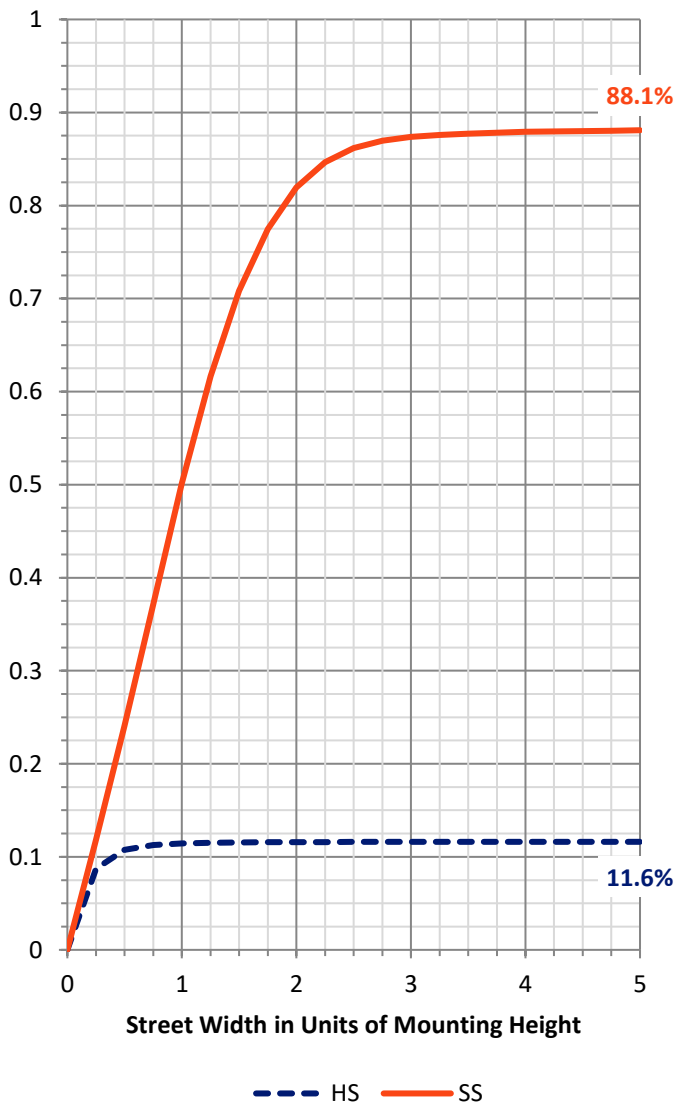
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4076.6	0.0	4076.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	30627.3	0.0	30627.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	34703.8	0.0	34703.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	1.0
10°-20°	1044.4	3.0
20°-30°	1825.4	5.3
30°-40°	3213.8	9.3
40°-50°	5681.0	16.4
50°-60°	8995.0	25.9
60°-70°	9978.0	28.8
70°-80°	3462.1	10.0
80°-90°	142.6	0.4
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°	34703.8	100.0
0°-180°	34703.8	100.0

Coefficient of Utilization

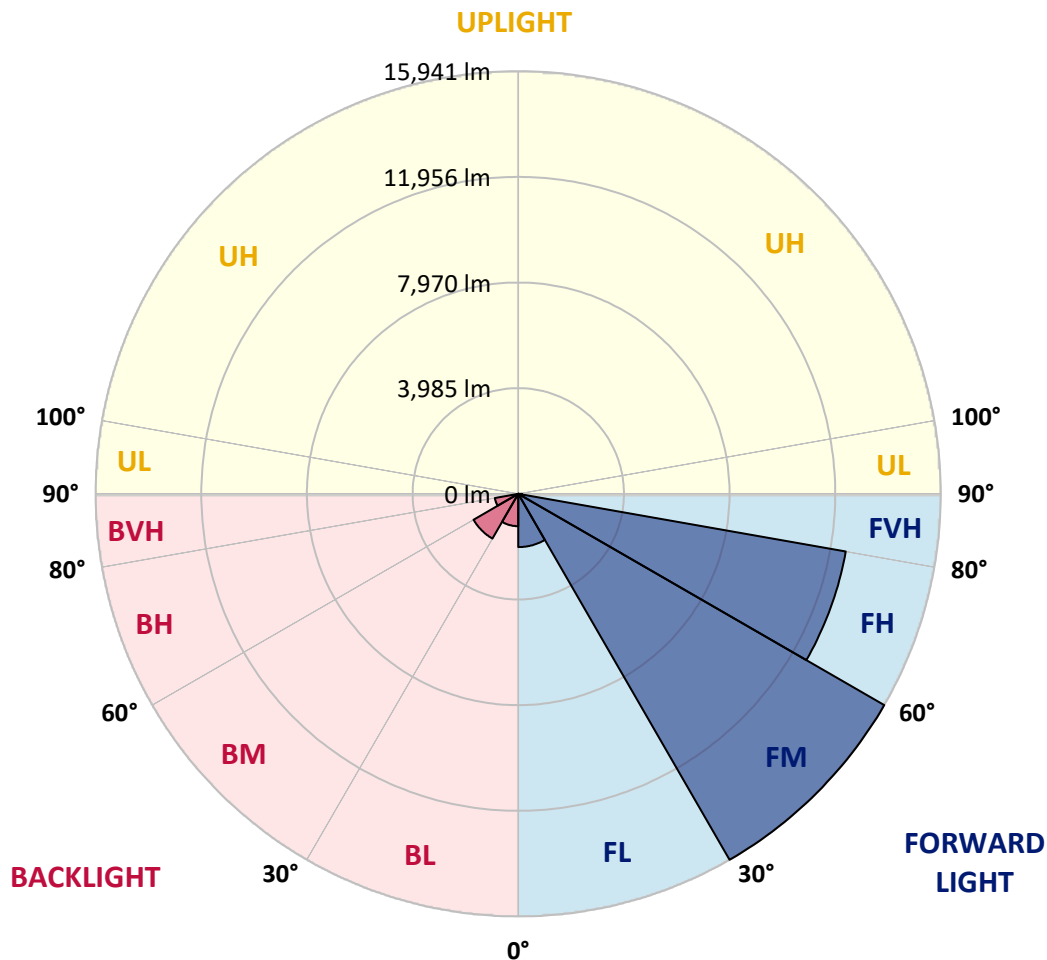


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2009.6	5.8			
FM (30°-60°)	15940.8	45.9			
FH (60°-80°)	12543.6	36.1			G5
FVH (80°-90°)	133.3	0.4			G2/225
BL (0°-30°)	1221.8	3.5	B3/2500		
BM (30°-60°)	1949.1	5.6	B2/2500		
BH (60°-80°)	896.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.2	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°	59°	65°	75°
0°	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4
2.5°	3696.1	3643.4	3691.3	3696.1	3700.9	3744.1	3792.0	3758.4	3753.7	3792.0
5°	3547.5	3523.5	3581.1	3609.8	3657.8	3696.1	3772.8	3777.6	3782.4	3825.6
7.5°	3485.2	3427.7	3494.8	3528.3	3561.9	3653.0	3744.1	3792.0	3859.1	3911.9
10°	3360.6	3403.7	3422.9	3480.4	3576.3	3681.7	3792.0	3816.0	3964.6	4007.7
12.5°	3403.7	3432.5	3470.8	3485.2	3590.7	3748.9	3897.5	3907.1	4060.5	4247.4
15°	3514.0	3494.8	3509.2	3528.3	3653.0	3782.4	4022.1	4065.3	4209.1	4420.0
17.5°	3748.9	3715.3	3691.3	3686.5	3715.3	3835.2	4118.0	4247.4	4381.7	4669.3
20°	4338.5	4309.8	4213.9	3964.6	3878.3	3926.2	4233.0	4415.2	4602.2	4923.4
22.5°	5235.0	5263.7	5038.4	4688.5	4328.9	4142.0	4415.2	4573.4	4870.6	5278.1
25°	6294.4	6236.9	5963.7	5556.2	4990.5	4549.4	4707.6	4885.0	5249.4	5584.9
27.5°	7123.8	7056.7	6845.7	6352.0	5863.0	5148.7	5091.2	5201.4	5632.9	5934.9
30°	7943.6	7967.5	7823.7	7238.8	6634.8	5882.2	5517.8	5565.8	5896.5	6284.9
32.5°	8988.6	8931.1	8849.6	8336.7	7622.4	6817.0	6193.8	6117.1	6260.9	6773.8
35°	9961.8	9928.2	9818.0	9300.2	8677.0	7799.7	7190.9	7018.3	6984.8	7555.2
37.5°	10810.3	10752.8	10585.0	10254.2	9650.2	8911.9	8245.6	8092.2	8087.4	8480.5
40°	11524.6	11567.8	11548.6	11184.3	10853.5	10263.8	9242.7	8998.2	8979.0	9190.0
42.5°	12449.9	12550.5	12497.8	12425.9	12028.0	11797.9	10642.5	10268.6	10100.8	10532.3
45°	13849.7	13888.0	13921.6	13744.2	13346.3	13394.3	12090.3	11644.5	11601.3	12243.7
47.5°	15158.4	15057.8	15292.7	15302.3	15283.1	15062.6	13653.1	13322.4	13379.9	13868.9
50°	15484.4	15743.3	16390.5	16510.3	16821.9	17023.3	15388.5	15057.8	15153.6	15709.7
52.5°	15738.5	16131.6	16778.8	17656.1	18495.0	18974.4	17330.1	17061.6	17056.8	17397.2
55°	16184.3	16424.0	16984.9	18193.0	19789.4	20575.6	19669.5	19238.1	18849.8	19089.5
57.5°	16141.2	16232.3	17104.8	18595.7	20815.3	22243.9	21591.9	21179.6	20681.1	20542.0
60°	15383.7	15599.5	16577.4	18322.4	21448.1	23543.0	23384.8	22963.0	22104.9	21778.9
62.5°	13883.2	14170.9	14937.9	17363.6	20527.6	23610.1	24621.7	24463.5	23504.7	22919.8
65°	11251.4	11385.6	12267.7	14928.3	18447.1	22579.5	26083.8	25887.3	25005.2	24132.7
67.5°	7286.8	7416.2	8264.8	10656.9	14487.3	19918.8	26026.3	26568.0	25614.0	24564.1
70°	3442.0	3408.5	4199.5	5920.5	9281.1	15211.2	24266.9	25336.0	24525.8	22267.8
72.5°	1049.9	1141.0	1745.0	2622.3	4765.2	9487.2	19022.3	20024.3	19770.2	17790.3
75°	465.0	503.4	685.5	1073.8	1932.0	3892.7	11749.9	12641.6	12531.4	10493.9
77.5°	297.2	326.0	431.5	613.6	877.3	1236.8	5412.4	6280.1	6088.3	3686.5
80°	210.9	225.3	306.8	421.9	551.3	508.2	1864.8	2214.8	2123.7	1001.9
82.5°	115.1	124.6	225.3	311.6	369.1	258.9	522.5	652.0	680.7	445.8
85°	43.1	52.7	139.0	220.5	191.8	119.8	153.4	187.0	244.5	244.5
87.5°	0.0	4.8	57.5	95.9	47.9	33.6	43.1	52.7	67.1	115.1
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°
3806.4	0°	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4	3806.4
3825.6	2.5°	3849.5	3816.0	3830.4	3854.3	3801.6	3830.4	3772.8	3816.0	3830.4	3772.8
3883.1	5°	3897.5	3931.0	3911.9	3873.5	3839.9	3849.5	3835.2	3801.6	3830.4	3839.9
3969.4	7.5°	4036.5	3998.1	4007.7	3964.6	3897.5	3892.7	3801.6	3777.6	3787.2	3796.8
4146.8	10°	4165.9	4189.9	4142.0	4108.4	3998.1	3926.2	3801.6	3667.4	3653.0	3595.5
4319.3	12.5°	4396.0	4338.5	4319.3	4209.1	4098.8	3859.1	3590.7	3384.5	3211.9	3149.6
4597.4	15°	4587.8	4578.2	4544.7	4376.9	4122.8	3686.5	3178.4	2699.0	2368.2	2162.1
4760.4	17.5°	4851.5	4808.3	4746.0	4482.3	3945.4	3235.9	2368.2	1764.2	1433.4	1304.0
5072.0	20°	5052.8	5019.3	4933.0	4458.4	3624.2	2411.4	1466.9	1121.8	1040.3	1016.3
5412.4	22.5°	5345.2	5239.8	5076.8	4338.5	3039.4	1606.0	1054.7	1001.9	987.6	968.4
5637.7	25°	5599.3	5503.4	5163.1	4132.4	2166.9	1064.3	978.0	949.2	925.2	901.3
5877.4	27.5°	5824.6	5704.8	5254.2	3710.5	1356.7	915.6	906.1	872.5	824.6	786.2
6155.4	30°	6045.2	5906.1	5278.1	2919.5	915.6	829.4	805.4	752.6	690.3	637.6
6620.4	32.5°	6414.3	6246.5	5244.6	2085.4	791.0	738.3	685.5	623.2	532.1	489.0
7286.8	35°	6989.6	6735.5	5201.4	1227.2	709.5	652.0	570.5	489.0	421.9	378.7
7962.7	37.5°	7651.1	7210.1	5076.8	819.8	652.0	575.3	469.8	388.3	330.8	297.2
8888.0	40°	8633.9	7905.2	4597.4	671.2	580.1	489.0	378.7	306.8	263.7	239.7
10259.0	42.5°	9717.3	8701.0	3859.1	604.0	513.0	417.1	302.0	249.3	215.7	191.8
11630.1	45°	11016.5	9530.3	2977.0	551.3	455.4	345.2	249.3	201.3	172.6	153.4
13236.1	47.5°	12464.2	10283.0	2008.7	498.6	383.5	282.8	206.1	153.4	124.6	110.3
14985.9	50°	13758.6	10949.4	1280.0	436.2	335.6	234.9	167.8	124.6	100.7	81.5
16400.1	52.5°	14933.1	11457.5	882.1	383.5	287.6	191.8	139.0	100.7	76.7	62.3
17867.0	55°	16136.4	11716.4	652.0	330.8	249.3	163.0	115.1	91.1	67.1	52.7
19554.5	57.5°	17123.9	11826.6	498.6	287.6	210.9	129.4	100.7	76.7	57.5	43.1
20848.8	60°	17967.7	11773.9	388.3	239.7	167.8	110.3	86.3	62.3	47.9	33.6
22536.3	62.5°	18461.5	11457.5	306.8	206.1	134.2	95.9	71.9	52.7	33.6	24.0
23404.0	65°	18471.0	10786.4	239.7	153.4	100.7	81.5	62.3	43.1	24.0	9.6
22862.3	67.5°	17147.9	9333.8	191.8	119.8	81.5	62.3	47.9	33.6	9.6	0.0
18988.8	70°	13413.4	7061.5	158.2	95.9	67.1	52.7	33.6	19.2	4.8	0.0
12675.2	72.5°	8547.6	4228.3	129.4	76.7	57.5	38.4	24.0	14.4	0.0	0.0
5786.3	75°	3576.3	1304.0	100.7	67.1	43.1	28.8	19.2	4.8	0.0	0.0
1514.9	77.5°	920.4	412.3	81.5	57.5	43.1	24.0	14.4	4.8	0.0	0.0
407.5	80°	273.3	153.4	67.1	47.9	33.6	19.2	9.6	4.8	0.0	0.0
196.6	82.5°	124.6	91.1	57.5	43.1	28.8	19.2	9.6	0.0	0.0	0.0
91.1	85°	47.9	28.8	28.8	24.0	24.0	14.4	4.8	0.0	0.0	0.0
33.6	87.5°	19.2	9.6	9.6	9.6	4.8	4.8	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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