

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: P575310

Luminaire Tested: **EPH-VN-06-760-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575310
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-760-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

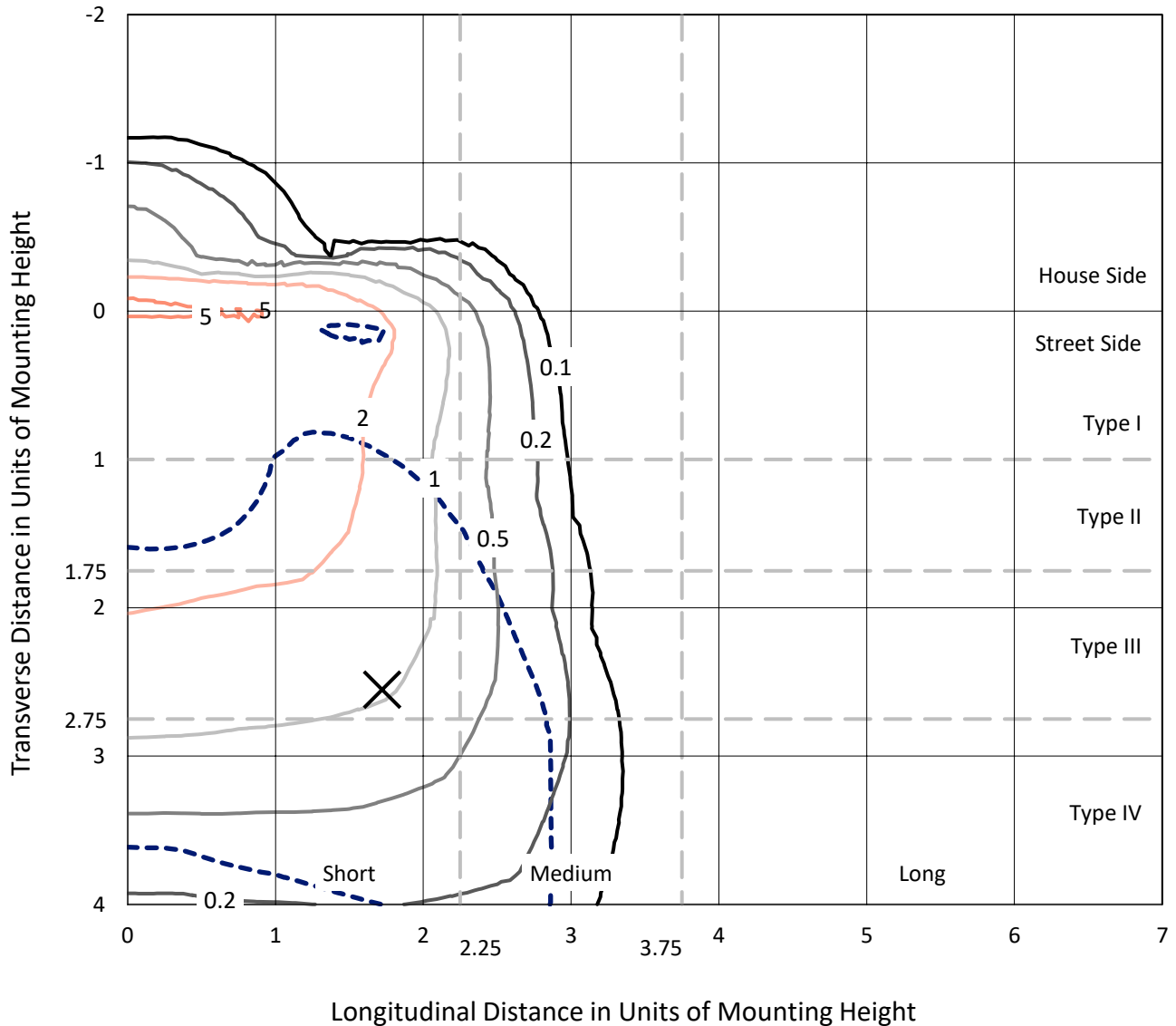
Lumens per Lamp: N/A
Luminaire Lumens: 33818.2 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

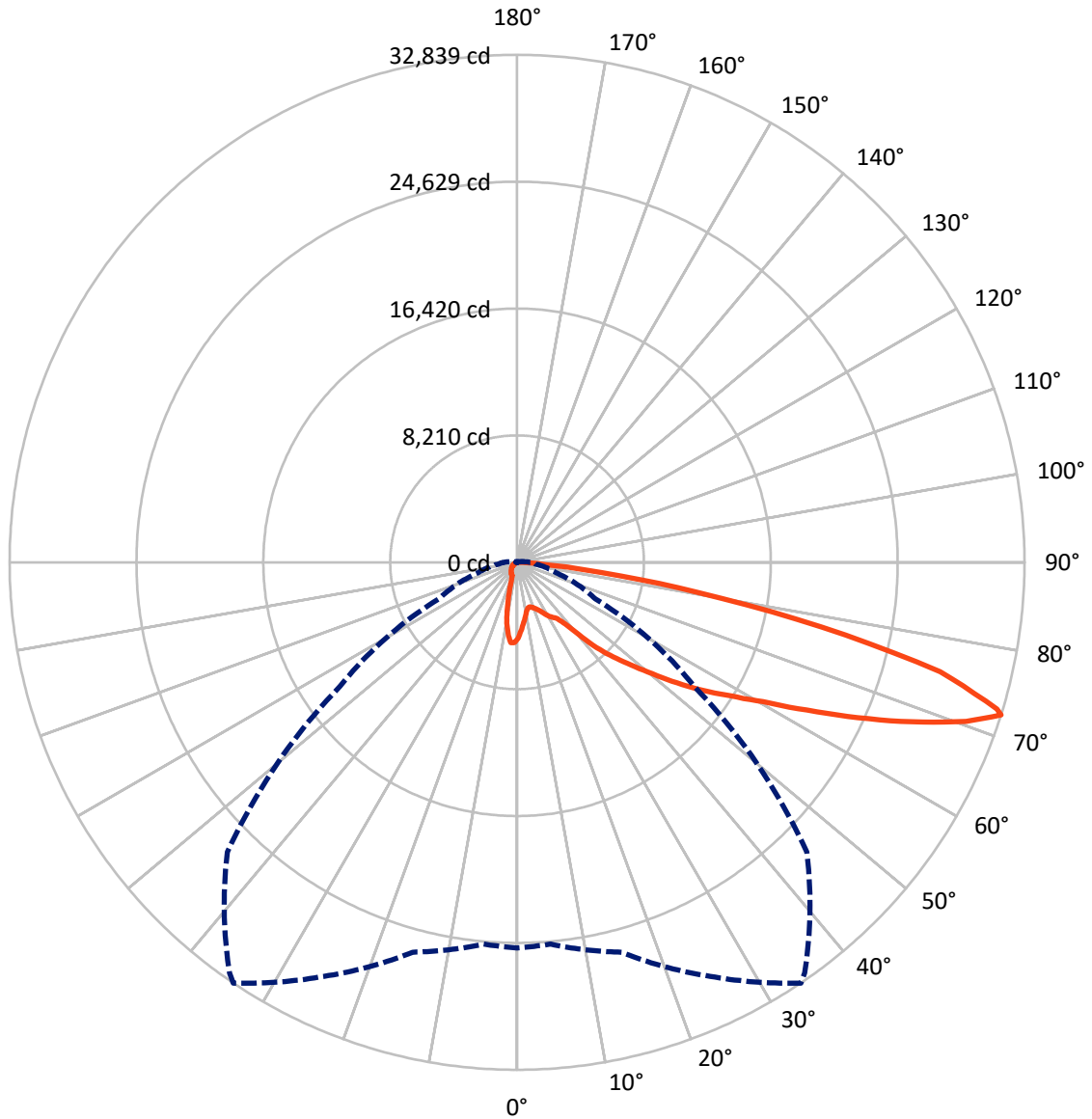
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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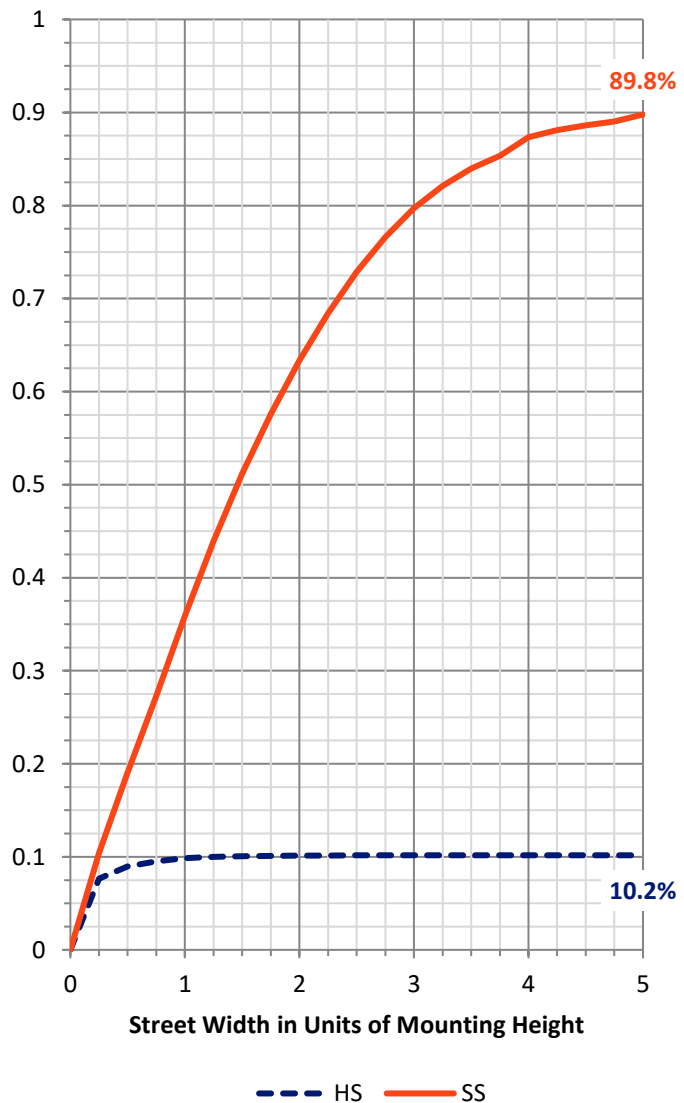
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3462.2	0.0	3462.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	30356.0	0.0	30356.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	33818.2	0.0	33818.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	1.3
10°-20°	972.4	2.9
20°-30°	1467.7	4.3
30°-40°	2381.8	7.0
40°-50°	4478.8	13.2
50°-60°	7323.0	21.7
60°-70°	9734.8	28.8
70°-80°	6519.3	19.3
80°-90°	510.9	1.5
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°	33818.2	100.0
0°-180°	33818.2	100.0

Coefficient of Utilization

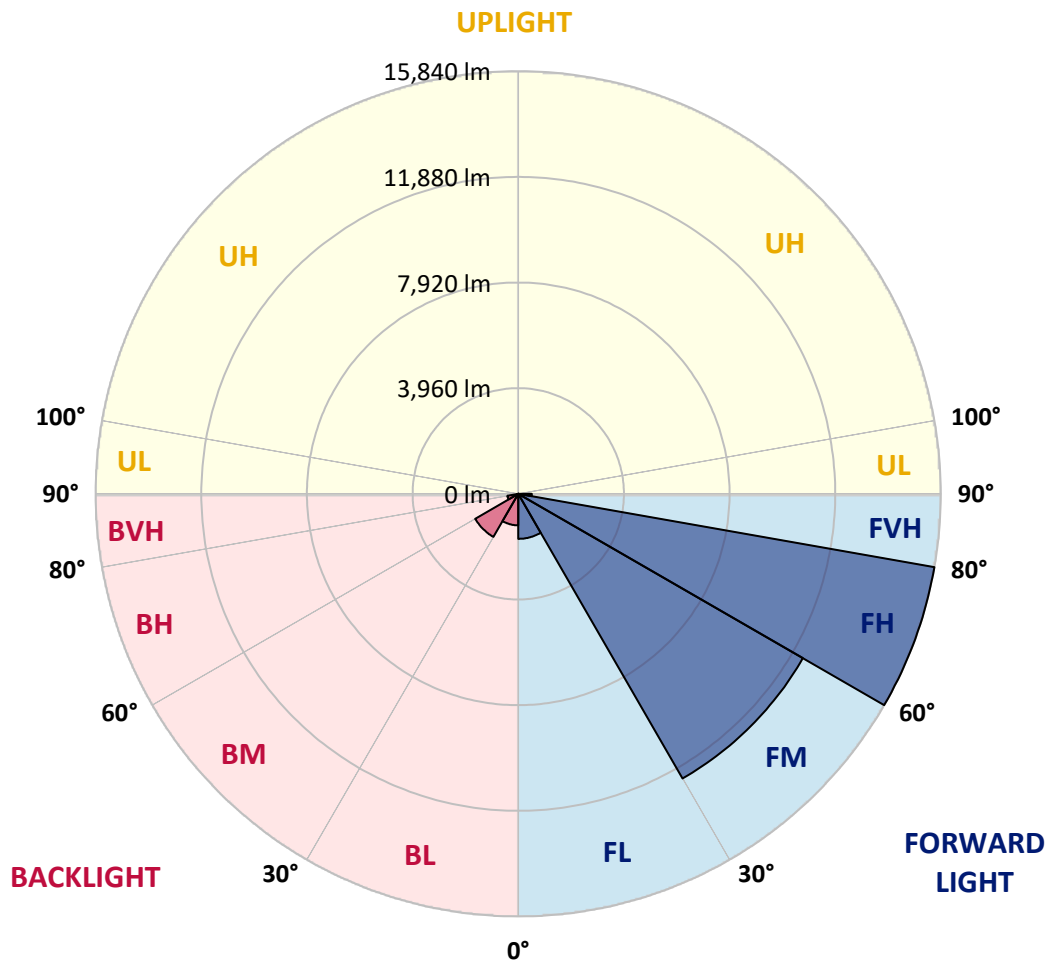


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.3	5.0			
FM (30°-60°)	12319.9	36.4			
FH (60°-80°)	15840.2	46.8			G5
FVH (80°-90°)	507.7	1.5			G4/750
BL (0°-30°)	1181.3	3.5	B3/2500		
BM (30°-60°)	1863.7	5.5	B2/2500		
BH (60°-80°)	414.0	1.2	B1/500		G1/500
BVH (80°-90°)	3.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6
2.5°	4375.6	4365.8	4395.2	4444.1	4493.0	4473.4	4566.3	4664.1	4732.5	4825.4
5°	3823.2	3847.6	3876.9	3974.7	4038.3	4052.9	4224.1	4351.2	4561.4	4776.5
7.5°	3319.6	3348.9	3407.6	3515.2	3647.2	3681.4	3852.5	4106.7	4380.5	4664.1
10°	2952.9	2982.3	3045.8	3114.3	3290.3	3290.3	3524.9	3876.9	4233.8	4566.3
12.5°	2874.7	2889.4	2884.5	2938.3	3050.7	3075.2	3304.9	3691.2	4106.7	4532.1
15°	2967.6	2977.4	2928.5	2899.2	2996.9	3021.4	3236.5	3578.7	4023.6	4551.6
17.5°	3153.4	3119.2	3021.4	2977.4	3060.5	3075.2	3275.6	3573.8	4013.8	4605.4
20°	3260.9	3300.0	3128.9	3045.8	3163.2	3182.7	3397.8	3652.1	4062.7	4698.3
22.5°	3451.6	3471.2	3241.4	3187.6	3300.0	3300.0	3544.5	3808.5	4180.1	4849.8
25°	3720.5	3696.1	3427.2	3373.4	3480.9	3524.9	3769.4	4057.8	4361.0	4991.6
27.5°	3930.7	3945.4	3725.4	3583.6	3764.5	3793.8	4057.8	4326.7	4497.8	5109.0
30°	4243.6	4214.3	3979.6	3818.3	4043.2	4048.1	4302.3	4581.0	4761.8	5319.2
32.5°	4615.2	4556.5	4287.6	4057.8	4238.7	4282.7	4541.8	4947.6	5172.5	5715.2
35°	5402.3	5260.5	4820.5	4463.6	4478.3	4497.8	4898.7	5480.5	5739.6	6218.8
37.5°	6551.2	6492.5	5993.9	5314.3	5055.2	4996.5	5446.3	6184.5	6507.2	6883.7
40°	7690.3	7607.2	7142.8	6629.4	6160.1	6042.8	6267.6	7118.3	7411.7	7807.7
42.5°	8956.6	8809.9	8262.3	7846.8	7553.4	7426.3	7338.3	8291.7	8624.1	8893.0
45°	10237.5	9997.9	9205.9	8888.1	8731.7	8663.2	8653.5	9768.1	9968.6	10022.4
47.5°	11361.9	11102.8	10384.1	10027.3	9909.9	9890.4	10437.9	11469.5	11313.1	11171.3
50°	12227.3	12061.1	11542.8	11415.7	11327.7	11293.5	12574.4	13219.7	12496.2	12246.8
52.5°	13566.9	13195.3	12608.6	12652.6	12960.6	12965.5	14740.2	14882.0	13478.9	12985.1
55°	14637.5	14393.1	13914.0	13850.4	14662.0	14750.0	16681.1	16143.3	14026.4	13689.1
57.5°	15898.9	15786.5	15439.3	15449.1	16299.8	16485.6	18406.9	17209.1	14481.1	14143.8
60°	17722.5	17399.8	17218.9	17302.0	18304.3	18485.2	20079.0	17976.7	14701.1	14442.0
62.5°	19736.7	19360.3	19164.7	19590.1	21051.9	21081.2	21350.1	18656.3	14564.2	14520.2
65°	22161.7	21790.1	21633.6	22489.2	24224.8	24117.2	23134.6	18944.7	14129.1	13733.1
67.5°	24576.8	24351.9	24029.2	25393.3	27554.2	27554.2	24987.5	18837.2	12990.0	11024.6
70°	25720.8	25877.3	26390.6	28532.0	30824.9	30590.2	26815.9	17600.3	9670.4	5920.5
72°	24958.1	24796.8	26121.7	29558.6	32839.1	32452.9	26507.9	13992.2	5588.1	2596.0
72.5°	23647.9	23799.5	25623.0	29416.9	32462.7	32780.5	25755.0	12906.9	4595.6	2068.0
75°	14500.7	14759.8	19125.6	24977.7	28287.5	27930.6	19922.5	6150.3	1764.9	880.0
77.5°	5294.7	5509.9	9279.2	15718.0	20118.1	19893.2	11528.2	2185.4	958.2	655.1
80°	1378.7	1491.1	3153.4	7250.3	11831.3	11845.9	4825.4	875.1	650.2	537.8
82.5°	273.8	303.1	968.0	2820.9	5529.4	5456.1	1525.4	469.3	488.9	440.0
85°	34.2	44.0	205.3	958.2	1789.4	1603.6	376.4	234.7	361.8	342.2
87.5°	4.9	4.9	48.9	220.0	376.4	366.7	78.2	73.3	161.3	210.2
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°
4947.6	0°	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6
4937.8	2.5°	5001.4	5021.0	5089.4	5148.1	5216.5	5236.1	5206.7	5255.6	5187.2	5226.3
4977.0	5°	5011.2	5123.6	5250.7	5333.9	5314.3	5265.4	5226.3	5094.3	5001.4	4967.2
4991.6	7.5°	5079.6	5206.7	5343.6	5343.6	5236.1	4981.8	4737.4	4502.7	4307.2	4209.4
4996.5	10°	5167.6	5299.6	5441.4	5255.6	4854.7	4390.3	4043.2	3603.2	3304.9	3148.5
5074.7	12.5°	5285.0	5470.7	5519.6	5089.4	4424.5	3735.2	3104.5	2493.4	2209.8	1984.9
5201.9	15°	5436.5	5617.4	5470.7	4727.6	3876.9	2860.0	2102.3	1520.5	1295.6	1178.2
5348.5	17.5°	5637.0	5773.9	5456.1	4395.2	3138.7	1955.6	1290.7	1026.7	977.8	958.2
5553.9	20°	5871.6	5974.3	5314.3	3876.9	2332.0	1256.5	948.5	919.1	924.0	914.2
5798.3	22.5°	6135.6	6169.9	5153.0	3275.6	1579.1	928.9	884.9	889.8	894.7	884.9
6023.2	25°	6414.3	6321.4	4918.3	2571.6	1051.1	845.8	855.6	865.3	870.2	875.1
6297.0	27.5°	6727.2	6541.4	4590.7	1882.2	821.3	796.9	826.2	855.6	860.5	860.5
6707.7	30°	7186.8	6878.8	4273.0	1276.0	723.6	743.1	792.0	826.2	850.7	850.7
7343.2	32.5°	7768.6	7230.8	3828.1	870.2	669.8	679.6	718.7	787.1	840.9	845.8
8193.9	35°	8575.2	7656.1	3363.6	694.2	630.7	635.6	660.0	713.8	806.7	836.0
9298.8	37.5°	9425.9	8140.1	2786.7	625.8	601.3	596.5	611.1	655.1	738.2	811.6
10433.0	40°	10330.4	8648.6	2180.5	591.6	576.9	567.1	572.0	591.6	655.1	748.0
11542.8	42.5°	11181.1	9108.1	1637.8	557.3	552.5	542.7	542.7	547.6	581.8	645.3
12774.9	45°	12100.2	9484.6	1246.7	532.9	518.2	523.1	503.6	493.8	518.2	523.1
14148.6	47.5°	12960.6	9861.0	997.3	503.6	488.9	488.9	464.5	444.9	444.9	400.9
15356.2	50°	13767.3	10066.4	796.9	464.5	459.6	454.7	420.5	386.2	356.9	303.1
16495.3	52.5°	14437.1	10056.6	616.0	415.6	430.2	415.6	361.8	312.9	268.9	220.0
16915.8	55°	14637.5	9587.2	464.5	342.2	366.7	347.1	288.4	244.4	195.6	156.4
16979.4	57.5°	14466.4	8873.5	352.0	264.0	283.6	264.0	220.0	180.9	136.9	107.6
16822.9	60°	13894.4	8037.4	273.8	205.3	215.1	200.4	166.2	136.9	97.8	68.4
15815.8	62.5°	12809.1	6991.2	210.2	161.3	156.4	156.4	127.1	102.7	68.4	39.1
13170.9	65°	10511.3	5451.2	161.3	112.4	112.4	112.4	97.8	73.3	44.0	19.6
8614.3	67.5°	6600.1	3172.9	132.0	88.0	83.1	83.1	68.4	48.9	24.4	4.9
3388.0	70°	2483.6	1163.6	102.7	68.4	63.6	63.6	48.9	29.3	14.7	0.0
1178.2	72°	855.6	444.9	83.1	48.9	48.9	44.0	34.2	24.4	9.8	0.0
889.8	72.5°	704.0	356.9	78.2	48.9	44.0	44.0	34.2	24.4	9.8	0.0
317.8	75°	254.2	146.7	53.8	34.2	29.3	29.3	24.4	14.7	4.9	0.0
161.3	77.5°	127.1	92.9	44.0	29.3	24.4	14.7	14.7	9.8	4.9	0.0
97.8	80°	78.2	58.7	24.4	19.6	14.7	9.8	4.9	4.9	0.0	0.0
68.4	82.5°	53.8	34.2	14.7	14.7	9.8	4.9	0.0	0.0	0.0	0.0
44.0	85°	34.2	14.7	9.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0
24.4	87.5°	14.7	9.8	4.9	0.0	0.0	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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