

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: P575288

Luminaire Tested: **EPH-VN-08-730-U-T4FT-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575288  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-730-U-T4FT-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

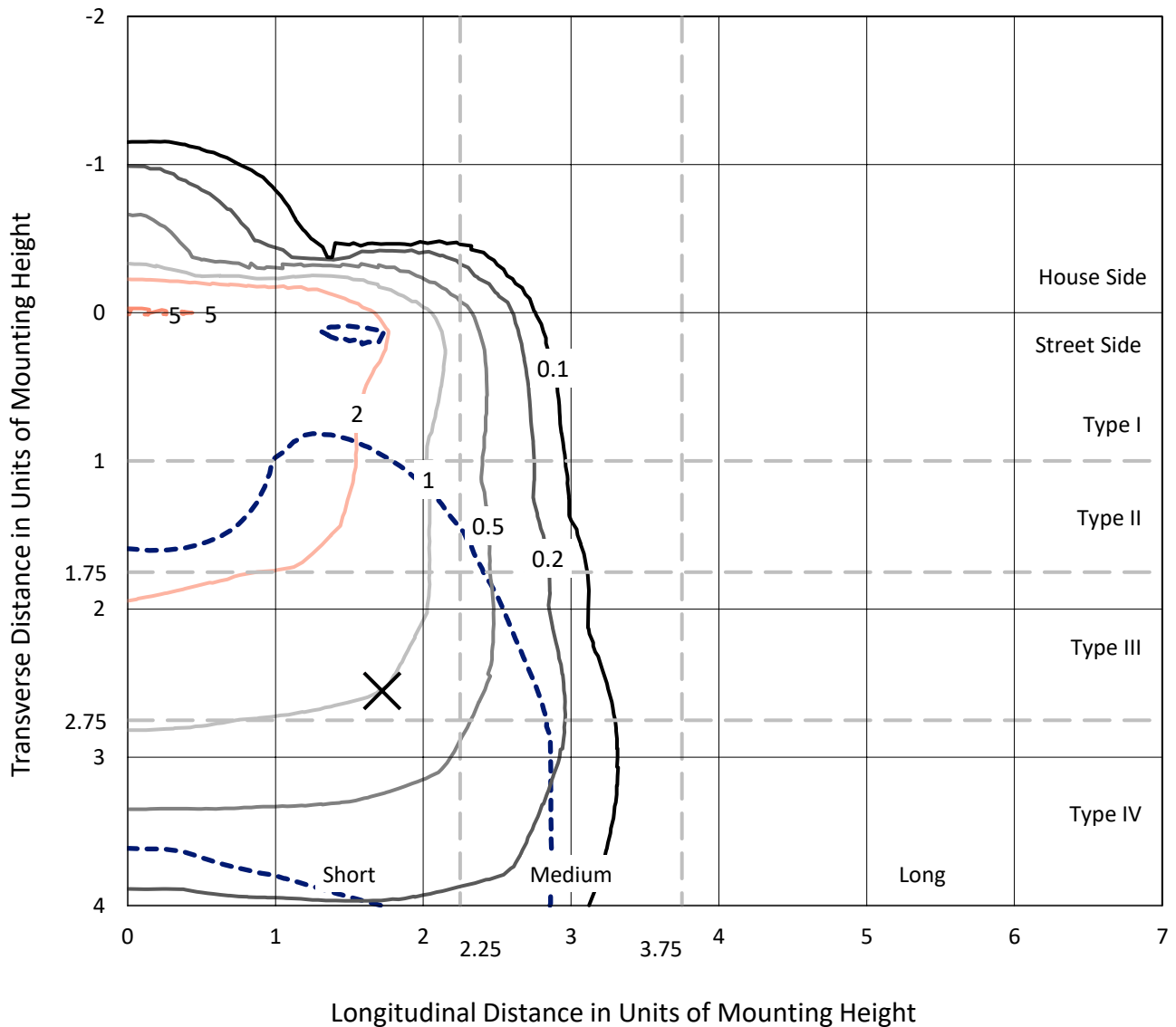
Lumens per Lamp: N/A  
Luminaire Lumens: 31718.3 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

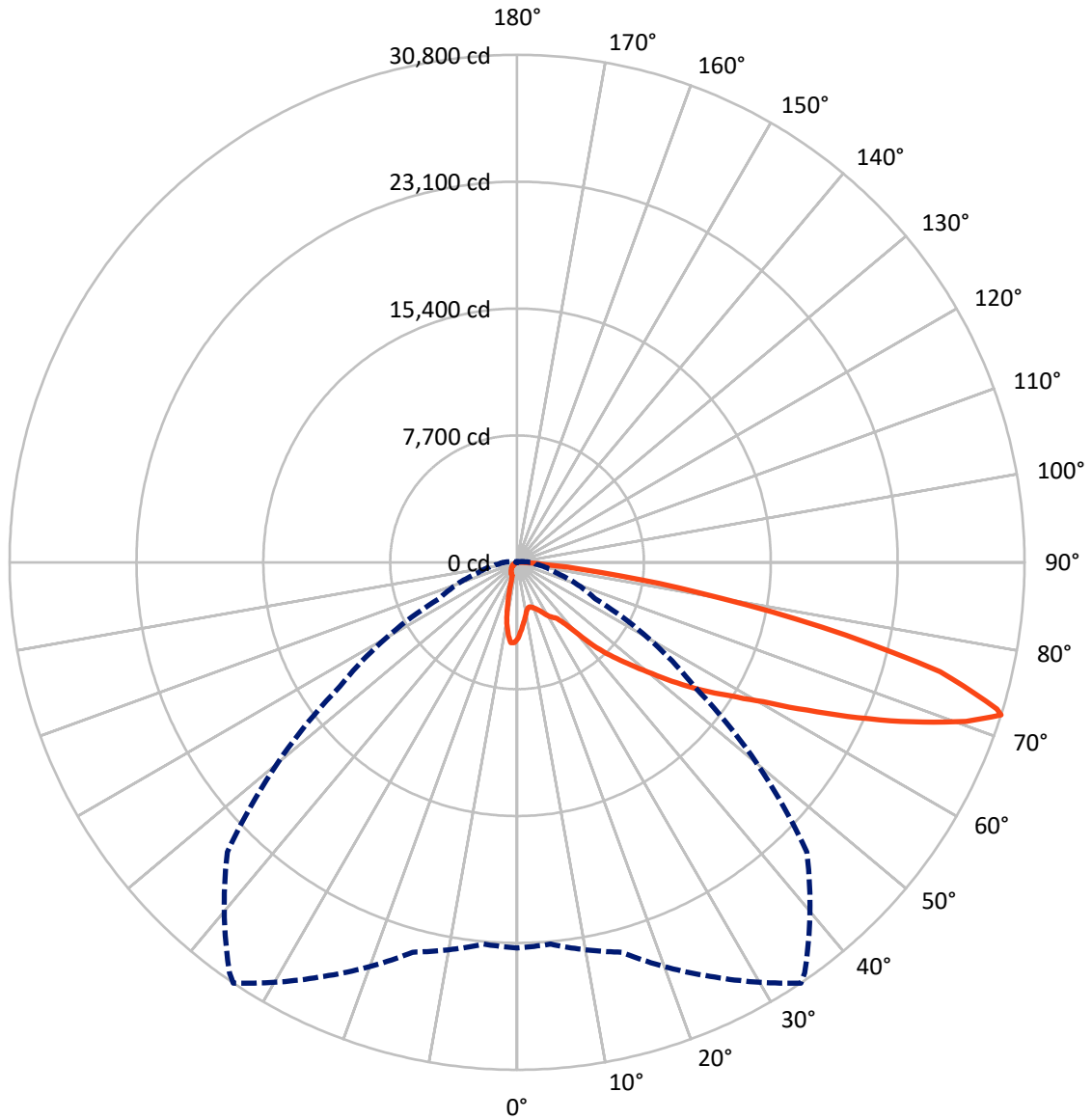
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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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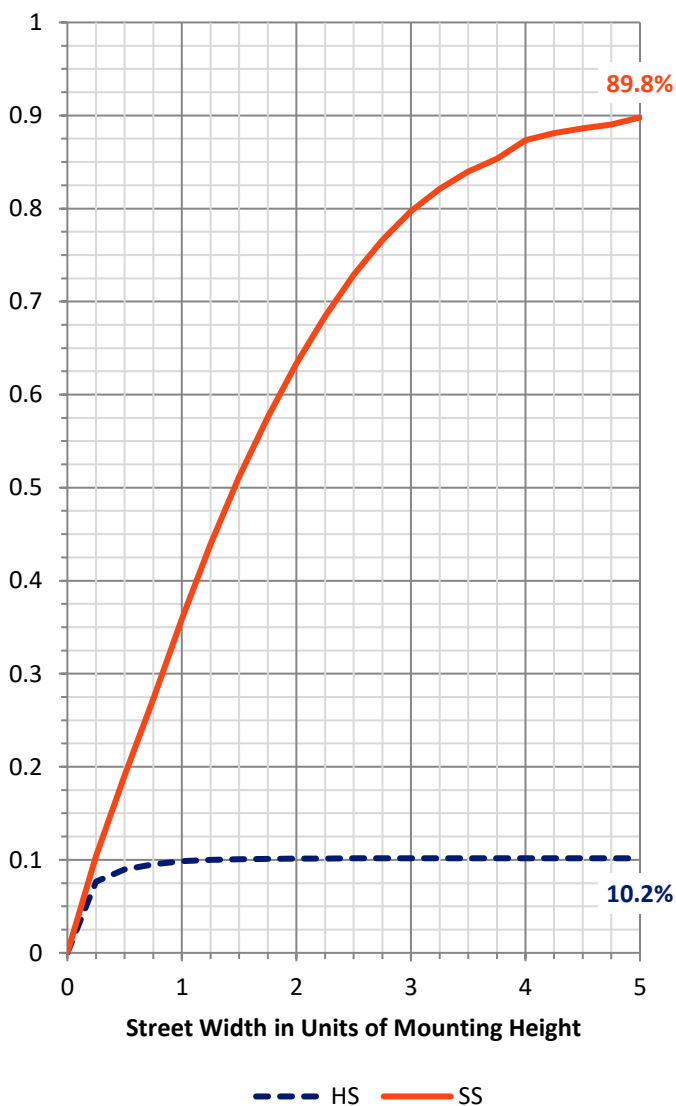
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3247.2	0.0	3247.2
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	28471.1	0.0	28471.1
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	31718.3	0.0	31718.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.8	1.3
10°-20°	912.0	2.9
20°-30°	1376.6	4.3
30°-40°	2233.9	7.0
40°-50°	4200.7	13.2
50°-60°	6868.2	21.7
60°-70°	9130.3	28.8
70°-80°	6114.5	19.3
80°-90°	479.2	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°	31718.3	100.0
0°-180°	31718.3	100.0

**Coefficient of Utilization**

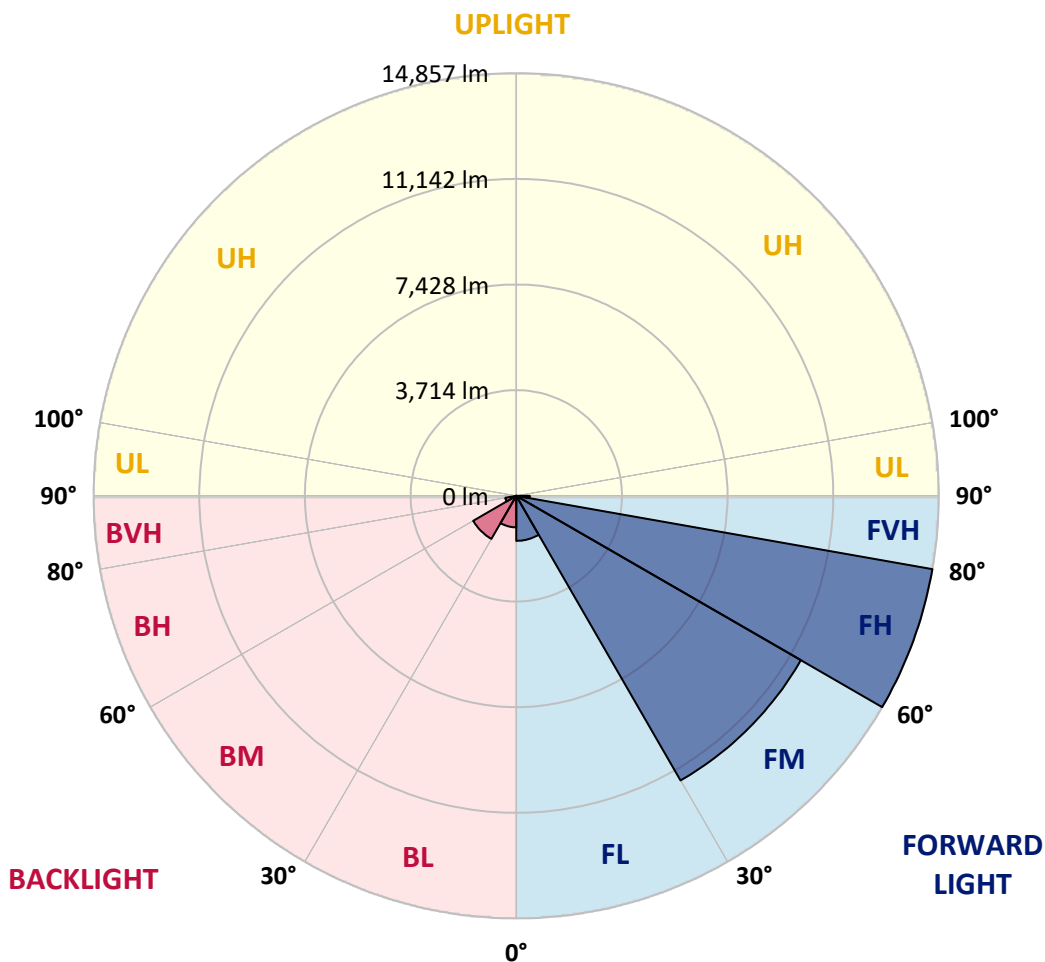


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1583.4	5.0			
FM (30°-60°)	11554.9	36.4			
FH (60°-80°)	14856.6	46.8			G5
FVH (80°-90°)	476.1	1.5			G3/500
BL (0°-30°)	1107.9	3.5	B3/2500		
BM (30°-60°)	1747.9	5.5	B2/2500		
BH (60°-80°)	388.3	1.2	B1/500		G1/500
BVH (80°-90°)	3.0	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°	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4
2.5°	4103.9	4094.7	4122.3	4168.1	4214.0	4195.6	4282.7	4374.5	4438.6	4525.8
5°	3585.8	3608.7	3636.2	3727.9	3787.5	3801.3	3961.8	4081.0	4278.2	4479.9
7.5°	3113.5	3141.0	3196.0	3296.9	3420.7	3452.8	3613.3	3851.7	4108.5	4374.5
10°	2769.6	2797.1	2856.7	2920.9	3086.0	3086.0	3306.1	3636.2	3970.9	4282.7
12.5°	2696.2	2710.0	2705.4	2755.8	2861.3	2884.2	3099.7	3462.0	3851.7	4250.6
15°	2783.3	2792.5	2746.6	2719.1	2810.8	2833.8	3035.5	3356.5	3773.8	4269.0
17.5°	2957.6	2925.5	2833.8	2792.5	2870.4	2884.2	3072.2	3351.9	3764.6	4319.4
20°	3058.4	3095.1	2934.6	2856.7	2966.7	2985.1	3186.8	3425.3	3810.5	4406.5
22.5°	3237.3	3255.6	3040.1	2989.7	3095.1	3095.1	3324.4	3572.0	3920.5	4548.7
25°	3489.5	3466.5	3214.4	3163.9	3264.8	3306.1	3535.3	3805.9	4090.2	4681.7
27.5°	3686.6	3700.4	3494.1	3361.1	3530.7	3558.3	3805.9	4058.1	4218.5	4791.7
30°	3980.1	3952.6	3732.5	3581.2	3792.1	3796.7	4035.1	4296.5	4466.2	4988.9
32.5°	4328.6	4273.6	4021.4	3805.9	3975.5	4016.8	4259.8	4640.4	4851.3	5360.3
35°	5066.8	4933.9	4521.2	4186.5	4200.2	4218.5	4594.6	5140.2	5383.2	5832.6
37.5°	6144.4	6089.4	5621.7	4984.3	4741.3	4686.3	5108.1	5800.5	6103.1	6456.2
40°	7212.8	7134.9	6699.2	6217.8	5777.6	5667.5	5878.5	6676.3	6951.4	7322.9
42.5°	8400.4	8262.9	7749.3	7359.5	7084.4	6965.2	6882.7	7776.8	8088.6	8340.8
45°	9601.8	9377.1	8634.3	8336.2	8189.5	8125.3	8116.1	9161.6	9349.6	9400.0
47.5°	10656.4	10413.4	9739.3	9404.6	9294.6	9276.2	9789.8	10757.3	10610.6	10477.6
50°	11468.0	11312.1	10826.1	10706.9	10624.3	10592.2	11793.6	12398.9	11720.2	11486.4
52.5°	12724.4	12375.9	11825.7	11867.0	12155.8	12160.4	13824.9	13957.9	12641.9	12178.8
55°	13728.6	13499.4	13050.0	12990.4	13751.6	13834.1	15645.3	15140.9	13155.5	12839.1
57.5°	14911.7	14806.2	14480.6	14489.8	15287.7	15461.9	17264.0	16140.5	13581.9	13265.5
60°	16622.0	16319.4	16149.7	16227.7	17167.7	17337.3	18832.2	16860.4	13788.2	13545.2
62.5°	18511.2	18158.1	17974.7	18373.6	19744.6	19772.2	20024.4	17497.8	13659.8	13618.6
65°	20785.5	20437.0	20290.3	21092.7	22720.6	22619.7	21698.0	17768.3	13251.7	12880.3
67.5°	23050.7	22839.8	22537.1	23816.5	25843.2	25843.2	23435.9	17667.5	12183.4	10340.0
70°	24123.7	24270.4	24751.9	26760.3	28910.8	28690.7	25150.8	16507.4	9069.9	5552.9
72°	23408.4	23257.0	24499.7	27723.2	30800.0	30437.7	24861.9	13123.4	5241.1	2434.8
72.5°	22179.5	22321.6	24032.0	27590.2	30446.9	30745.0	24155.8	12105.4	4310.3	1939.6
75°	13600.2	13843.3	17938.0	23426.7	26531.0	26196.3	18685.4	5768.4	1655.3	825.4
77.5°	4966.0	5167.7	8703.1	14742.0	18868.8	18657.9	10812.3	2049.7	898.7	614.4
80°	1293.1	1398.5	2957.6	6800.1	11096.6	11110.4	4525.8	820.8	609.9	504.4
82.5°	256.8	284.3	907.9	2645.8	5186.1	5117.3	1430.6	440.2	458.5	412.7
85°	32.1	41.3	192.6	898.7	1678.2	1504.0	353.1	220.1	339.3	321.0
87.5°	4.6	4.6	45.9	206.3	353.1	343.9	73.4	68.8	151.3	197.2
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°
4640.4	0°	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4
4631.2	2.5°	4690.8	4709.2	4773.4	4828.4	4892.6	4910.9	4883.4	4929.3	4865.1	4901.8
4667.9	5°	4700.0	4805.5	4924.7	5002.6	4984.3	4938.5	4901.8	4778.0	4690.8	4658.7
4681.7	7.5°	4764.2	4883.4	5011.8	5011.8	4910.9	4672.5	4443.2	4223.1	4039.7	3948.0
4686.3	10°	4846.7	4970.6	5103.5	4929.3	4553.3	4117.7	3792.1	3379.4	3099.7	2953.0
4759.6	12.5°	4956.8	5131.0	5176.9	4773.4	4149.8	3503.2	2911.7	2338.5	2072.6	1861.7
4878.8	15°	5098.9	5268.6	5131.0	4434.1	3636.2	2682.4	1971.7	1426.1	1215.1	1105.1
5016.4	17.5°	5286.9	5415.3	5117.3	4122.3	2943.8	1834.2	1210.5	962.9	917.1	898.7
5209.0	20°	5507.0	5603.3	4984.3	3636.2	2187.2	1178.4	889.6	862.1	866.6	857.5
5438.3	22.5°	5754.7	5786.7	4833.0	3072.2	1481.1	871.2	830.0	834.5	839.1	830.0
5649.2	25°	6016.0	5928.9	4612.9	2411.9	985.9	793.3	802.4	811.6	816.2	820.8
5906.0	27.5°	6309.5	6135.2	4305.7	1765.4	770.3	747.4	774.9	802.4	807.0	807.0
6291.1	30°	6740.5	6451.6	4007.6	1196.8	678.6	697.0	742.8	774.9	797.9	797.9
6887.2	32.5°	7286.2	6781.8	3590.4	816.2	628.2	637.4	674.1	738.2	788.7	793.3
7685.1	35°	8042.8	7180.7	3154.7	651.1	591.5	596.1	619.0	669.5	756.6	784.1
8721.4	37.5°	8840.6	7634.7	2613.7	586.9	564.0	559.4	573.2	614.4	692.4	761.2
9785.2	40°	9688.9	8111.5	2045.1	554.8	541.1	531.9	536.5	554.8	614.4	701.6
10826.1	42.5°	10486.8	8542.6	1536.1	522.7	518.1	509.0	509.0	513.6	545.7	605.3
11981.6	45°	11348.8	8895.6	1169.3	499.8	486.1	490.6	472.3	463.1	486.1	490.6
13270.1	47.5°	12155.8	9248.7	935.4	472.3	458.5	458.5	435.6	417.3	417.3	376.0
14402.7	50°	12912.4	9441.3	747.4	435.6	431.0	426.4	394.3	362.2	334.7	284.3
15471.1	52.5°	13540.6	9432.1	577.8	389.8	403.5	389.8	339.3	293.5	252.2	206.3
15865.4	55°	13728.6	8991.9	435.6	321.0	343.9	325.6	270.5	229.3	183.4	146.7
15925.0	57.5°	13568.1	8322.5	330.1	247.6	266.0	247.6	206.3	169.7	128.4	100.9
15778.3	60°	13031.6	7538.4	256.8	192.6	201.8	188.0	155.9	128.4	91.7	64.2
14833.7	62.5°	12013.7	6557.1	197.2	151.3	146.7	146.7	119.2	96.3	64.2	36.7
12353.0	65°	9858.6	5112.7	151.3	105.5	105.5	105.5	91.7	68.8	41.3	18.3
8079.4	67.5°	6190.3	2975.9	123.8	82.5	78.0	78.0	64.2	45.9	22.9	4.6
3177.7	70°	2329.4	1091.3	96.3	64.2	59.6	59.6	45.9	27.5	13.8	0.0
1105.1	72°	802.4	417.3	78.0	45.9	45.9	41.3	32.1	22.9	9.2	0.0
834.5	72.5°	660.3	334.7	73.4	45.9	41.3	41.3	32.1	22.9	9.2	0.0
298.0	75°	238.4	137.6	50.4	32.1	27.5	27.5	22.9	13.8	4.6	0.0
151.3	77.5°	119.2	87.1	41.3	27.5	22.9	13.8	13.8	9.2	4.6	0.0
91.7	80°	73.4	55.0	22.9	18.3	13.8	9.2	4.6	4.6	0.0	0.0
64.2	82.5°	50.4	32.1	13.8	13.8	9.2	4.6	0.0	0.0	0.0	0.0
41.3	85°	32.1	13.8	9.2	9.2	4.6	0.0	0.0	0.0	0.0	0.0
22.9	87.5°	13.8	9.2	4.6	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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