

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: P575296

Luminaire Tested: **EPH-VN-04-740-U-T4FT-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575296  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-740-U-T4FT-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

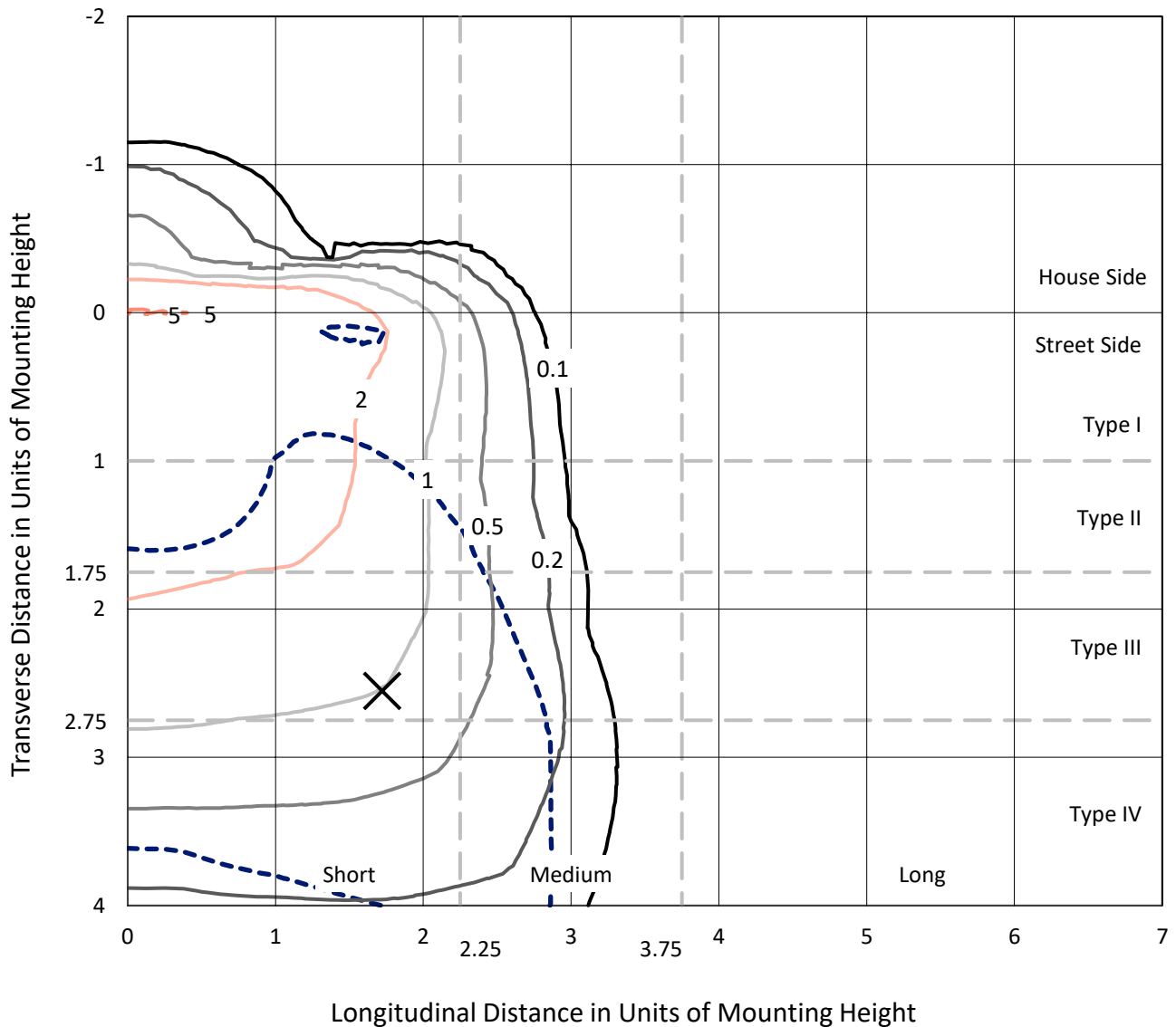
Lumens per Lamp: N/A  
Luminaire Lumens: 21852.9 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 241  
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

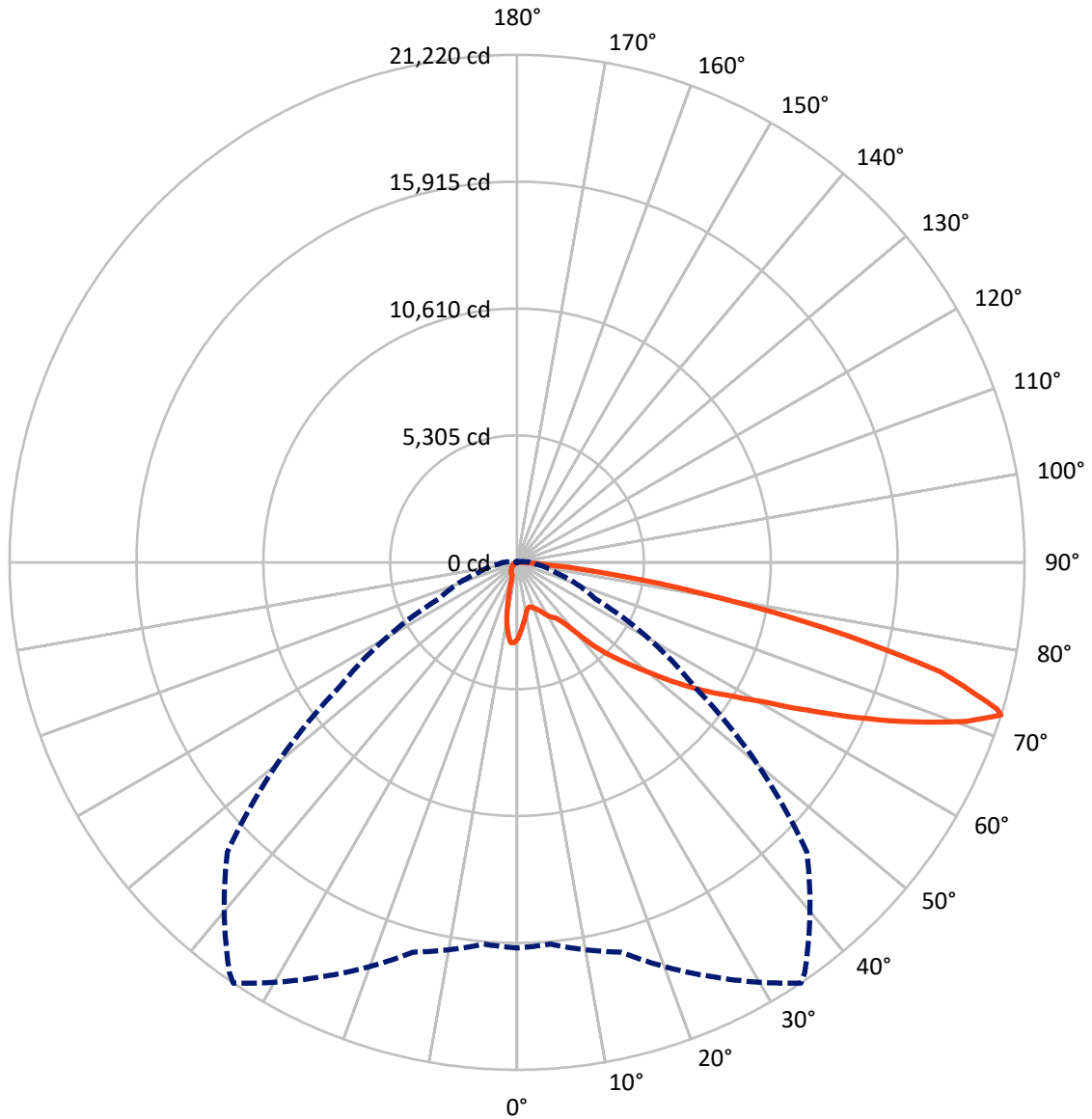
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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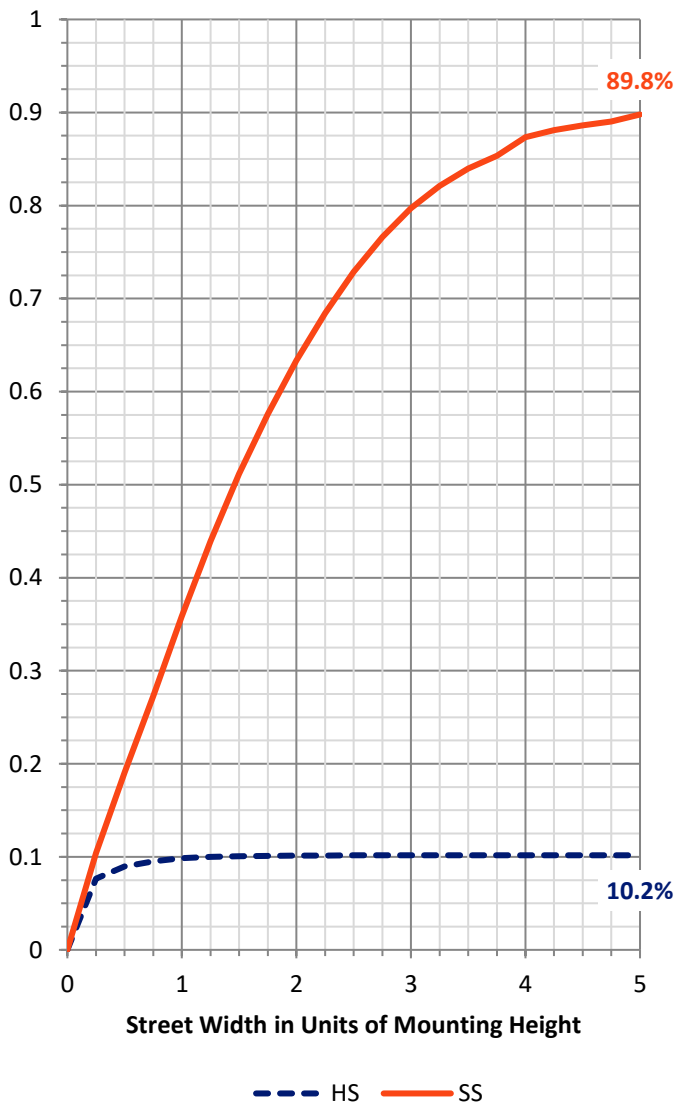
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2237.2	0.0	2237.2
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	19615.7	0.0	19615.7
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	21852.9	0.0	21852.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.5	1.3
10°-20°	628.3	2.9
20°-30°	948.4	4.3
30°-40°	1539.1	7.0
40°-50°	2894.2	13.2
50°-60°	4732.0	21.7
60°-70°	6290.5	28.8
70°-80°	4212.7	19.3
80°-90°	330.1	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°	21852.9	100.0
0°-180°	21852.9	100.0

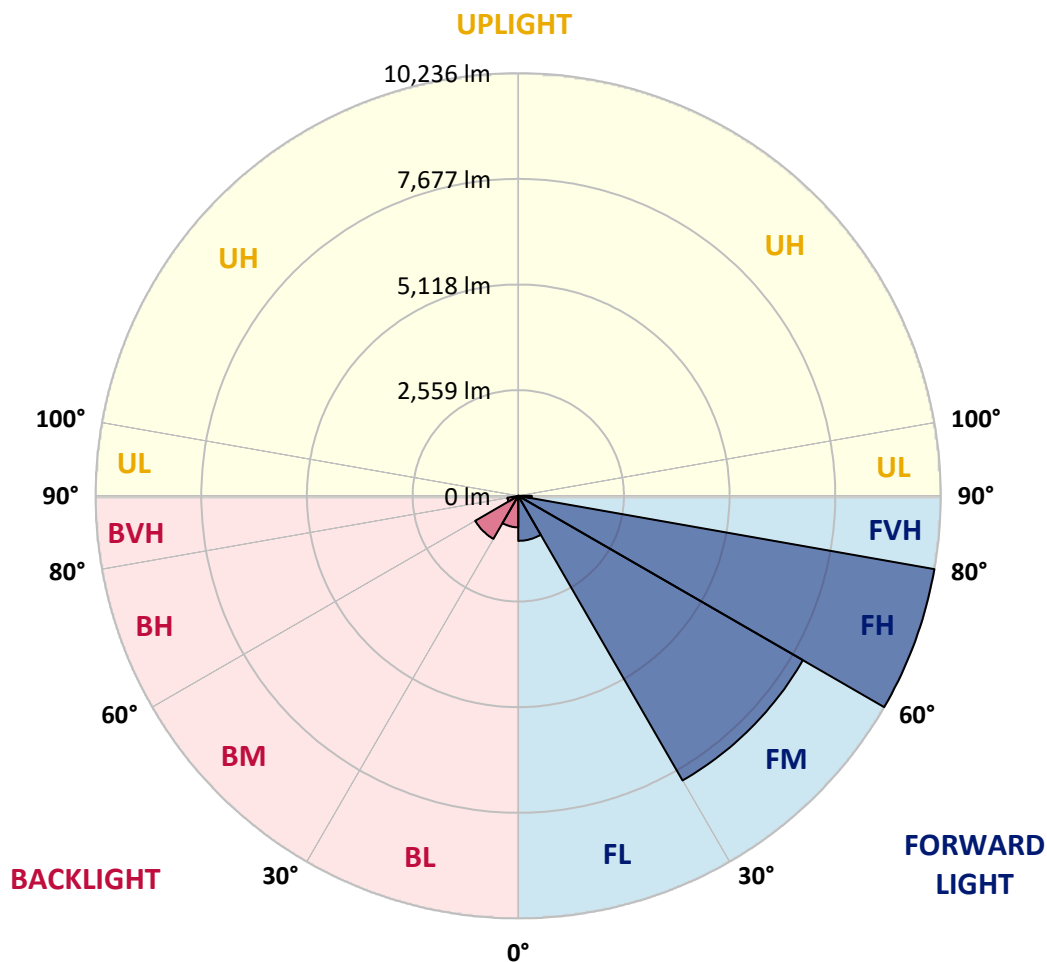


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.9	5.0			
FM (30°-60°)	7961.0	36.4			
FH (60°-80°)	10235.7	46.8			G4/12000
FVH (80°-90°)	328.0	1.5			G3/500
BL (0°-30°)	763.3	3.5	B2/1000		
BM (30°-60°)	1204.3	5.5	B2/2500		
BH (60°-80°)	267.5	1.2	B1/500		G1/500
BVH (80°-90°)	2.1	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°	34°	35°	45°	55°	65°	75°
0°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	2827.5	2821.1	2840.1	2871.7	2903.3	2890.7	2950.7	3013.9	3058.1	3118.1
5°	2470.5	2486.3	2505.2	2568.4	2609.5	2619.0	2729.5	2811.7	2947.5	3086.5
7.5°	2145.1	2164.0	2202.0	2271.5	2356.8	2378.9	2489.4	2653.7	2830.6	3013.9
10°	1908.1	1927.1	1968.2	2012.4	2126.1	2126.1	2277.8	2505.2	2735.9	2950.7
12.5°	1857.6	1867.1	1863.9	1898.7	1971.3	1987.1	2135.6	2385.2	2653.7	2928.6
15°	1917.6	1923.9	1892.4	1873.4	1936.6	1952.4	2091.4	2312.5	2600.0	2941.2
17.5°	2037.7	2015.6	1952.4	1923.9	1977.6	1987.1	2116.7	2309.4	2593.7	2975.9
20°	2107.2	2132.4	2021.9	1968.2	2044.0	2056.6	2195.6	2359.9	2625.3	3036.0
22.5°	2230.4	2243.0	2094.5	2059.8	2132.4	2132.4	2290.4	2461.0	2701.1	3133.9
25°	2404.1	2388.3	2214.6	2179.8	2249.3	2277.8	2435.7	2622.1	2818.0	3225.5
27.5°	2540.0	2549.5	2407.3	2315.7	2432.6	2451.5	2622.1	2795.9	2906.4	3301.3
30°	2742.2	2723.2	2571.6	2467.3	2612.6	2615.8	2780.1	2960.2	3077.0	3437.2
32.5°	2982.3	2944.4	2770.6	2622.1	2739.0	2767.4	2934.9	3197.1	3342.4	3693.1
35°	3490.9	3399.3	3115.0	2884.3	2893.8	2906.4	3165.5	3541.4	3708.9	4018.5
37.5°	4233.3	4195.4	3873.2	3434.0	3266.6	3228.7	3519.3	3996.4	4204.9	4448.1
40°	4969.4	4915.7	4615.6	4283.9	3980.6	3904.7	4050.1	4599.8	4789.3	5045.2
42.5°	5787.6	5692.8	5339.0	5070.5	4880.9	4798.8	4741.9	5358.0	5572.8	5746.6
45°	6615.3	6460.5	5948.7	5743.4	5642.3	5598.1	5591.8	6312.0	6441.6	6476.3
47.5°	7341.9	7174.5	6710.1	6479.5	6403.7	6391.0	6744.9	7411.4	7310.3	7218.7
50°	7901.1	7793.7	7458.8	7376.7	7319.8	7297.7	8125.4	8542.4	8074.9	7913.8
52.5°	8766.7	8526.6	8147.5	8176.0	8375.0	8378.2	9524.9	9616.6	8709.9	8390.8
55°	9458.6	9300.6	8991.0	8950.0	9474.4	9531.3	10779.1	10431.6	9063.7	8845.7
57.5°	10273.7	10201.0	9976.7	9983.0	10532.7	10652.8	11894.3	11120.3	9357.5	9139.5
60°	11452.0	11243.5	11126.6	11180.3	11828.0	11944.9	12974.8	11616.3	9499.7	9332.2
62.5°	12753.6	12510.4	12384.0	12658.8	13603.4	13622.4	13796.1	12055.4	9411.2	9382.8
65°	14320.6	14080.5	13979.4	14532.2	15653.7	15584.2	14949.3	12241.8	9130.0	8874.1
67.5°	15881.2	15735.9	15527.4	16408.8	17805.2	17805.2	16146.6	12172.3	8393.9	7124.0
70°	16620.5	16721.6	17053.3	18437.0	19918.6	19767.0	17328.1	11373.1	6248.9	3825.8
72°	16127.6	16023.4	16879.5	19100.4	21220.2	20970.7	17129.1	9041.6	3610.9	1677.5
72.5°	15281.0	15378.9	16557.3	19008.8	20977.0	21182.3	16642.6	8340.2	2969.6	1336.3
75°	9370.1	9537.6	12358.7	16140.3	18279.0	18048.4	12873.7	3974.3	1140.5	568.7
77.5°	3421.4	3560.4	5996.1	10156.8	13000.0	12854.7	7449.4	1412.2	619.2	423.3
80°	890.9	963.6	2037.7	4685.1	7645.2	7654.7	3118.1	565.5	420.2	347.5
82.5°	176.9	195.9	625.5	1822.8	3573.0	3525.6	985.7	303.3	315.9	284.3
85°	22.1	28.4	132.7	619.2	1156.3	1036.2	243.3	151.6	233.8	221.1
87.5°	3.2	3.2	31.6	142.2	243.3	236.9	50.5	47.4	104.3	135.8
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°
3197.1	0°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
3190.8	2.5°	3231.8	3244.5	3288.7	3326.6	3370.8	3383.5	3364.5	3396.1	3351.9	3377.2
3216.0	5°	3238.2	3310.8	3393.0	3446.7	3434.0	3402.4	3377.2	3291.9	3231.8	3209.7
3225.5	7.5°	3282.4	3364.5	3453.0	3453.0	3383.5	3219.2	3061.2	2909.6	2783.2	2720.1
3228.7	10°	3339.3	3424.6	3516.2	3396.1	3137.1	2836.9	2612.6	2328.3	2135.6	2034.5
3279.2	12.5°	3415.1	3535.1	3566.7	3288.7	2859.1	2413.6	2006.1	1611.2	1428.0	1282.6
3361.4	15°	3513.0	3629.9	3535.1	3054.9	2505.2	1848.1	1358.4	982.5	837.2	761.4
3456.1	17.5°	3642.5	3731.0	3525.6	2840.1	2028.2	1263.7	834.0	663.4	631.8	619.2
3588.8	20°	3794.2	3860.5	3434.0	2505.2	1506.9	811.9	612.9	593.9	597.1	590.8
3746.8	22.5°	3964.8	3986.9	3329.8	2116.7	1020.4	600.2	571.8	575.0	578.1	571.8
3892.1	25°	4144.8	4084.8	3178.1	1661.7	679.2	546.5	552.9	559.2	562.3	565.5
4069.0	27.5°	4347.0	4227.0	2966.5	1216.3	530.7	514.9	533.9	552.9	556.0	556.0
4334.4	30°	4644.0	4445.0	2761.1	824.5	467.6	480.2	511.8	533.9	549.7	549.7
4745.1	32.5°	5019.9	4672.4	2473.6	562.3	432.8	439.1	464.4	508.6	543.4	546.5
5294.8	35°	5541.2	4947.3	2173.5	448.6	407.5	410.7	426.5	461.2	521.3	540.2
6008.8	37.5°	6090.9	5260.0	1800.7	404.4	388.6	385.4	394.9	423.3	477.0	524.4
6741.7	40°	6675.4	5588.6	1409.0	382.3	372.8	366.5	369.6	382.3	423.3	483.4
7458.8	42.5°	7225.0	5885.6	1058.3	360.1	357.0	350.7	350.7	353.8	375.9	417.0
8254.9	45°	7819.0	6128.8	805.6	344.4	334.9	338.0	325.4	319.1	334.9	338.0
9142.7	47.5°	8375.0	6372.1	644.5	325.4	315.9	315.9	300.1	287.5	287.5	259.1
9923.0	50°	8896.3	6504.8	514.9	300.1	297.0	293.8	271.7	249.6	230.6	195.9
10659.1	52.5°	9329.1	6498.4	398.1	268.5	278.0	268.5	233.8	202.2	173.8	142.2
10930.8	55°	9458.6	6195.2	300.1	221.1	236.9	224.3	186.4	158.0	126.4	101.1
10971.8	57.5°	9348.0	5733.9	227.5	170.6	183.2	170.6	142.2	116.9	88.5	69.5
10870.7	60°	8978.4	5193.7	176.9	132.7	139.0	129.5	107.4	88.5	63.2	44.2
10220.0	62.5°	8277.1	4517.6	135.8	104.3	101.1	101.1	82.1	66.3	44.2	25.3
8510.8	65°	6792.2	3522.5	104.3	72.7	72.7	72.7	63.2	47.4	28.4	12.6
5566.5	67.5°	4264.9	2050.3	85.3	56.9	53.7	53.7	44.2	31.6	15.8	3.2
2189.3	70°	1604.9	751.9	66.3	44.2	41.1	41.1	31.6	19.0	9.5	0.0
761.4	72°	552.9	287.5	53.7	31.6	31.6	28.4	22.1	15.8	6.3	0.0
575.0	72.5°	454.9	230.6	50.5	31.6	28.4	28.4	22.1	15.8	6.3	0.0
205.3	75°	164.3	94.8	34.8	22.1	19.0	19.0	15.8	9.5	3.2	0.0
104.3	77.5°	82.1	60.0	28.4	19.0	15.8	9.5	9.5	6.3	3.2	0.0
63.2	80°	50.5	37.9	15.8	12.6	9.5	6.3	3.2	3.2	0.0	0.0
44.2	82.5°	34.8	22.1	9.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0
28.4	85°	22.1	9.5	6.3	6.3	3.2	0.0	0.0	0.0	0.0	0.0
15.8	87.5°	9.5	6.3	3.2	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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