

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: P575302

Luminaire Tested: **EPH-VN-04-750-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575302
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

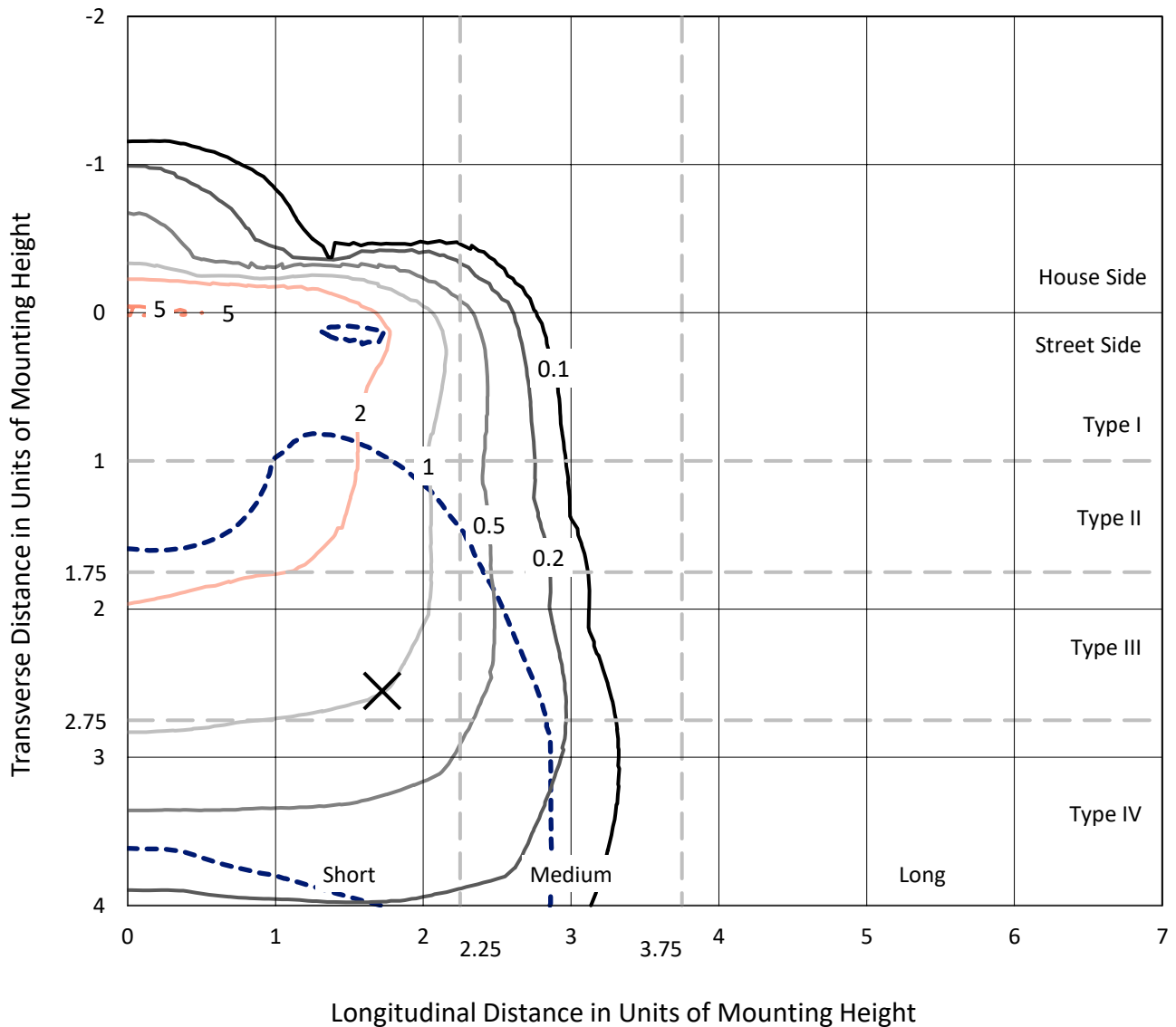
Lumens per Lamp: N/A
Luminaire Lumens: 22353.3 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

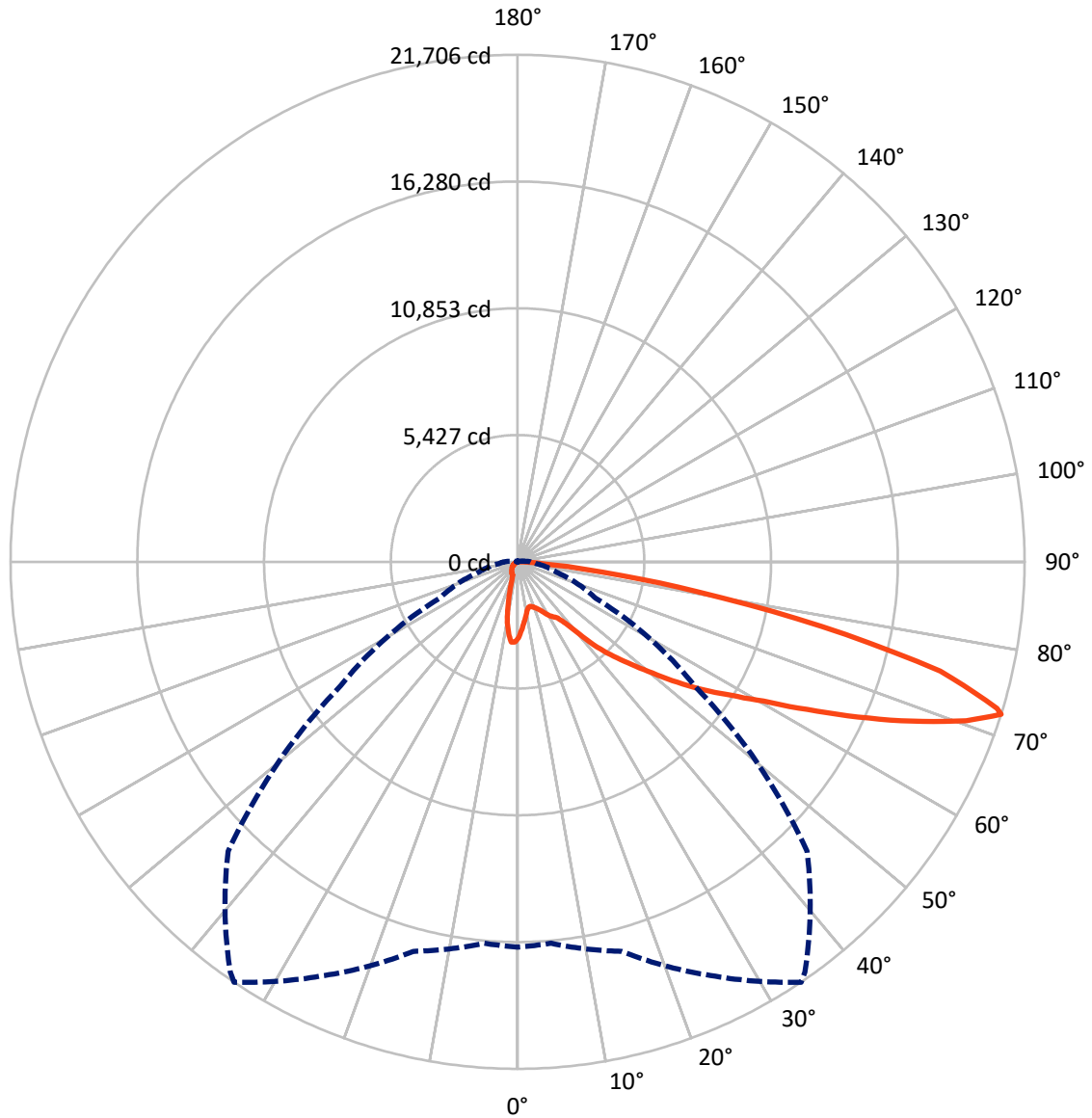
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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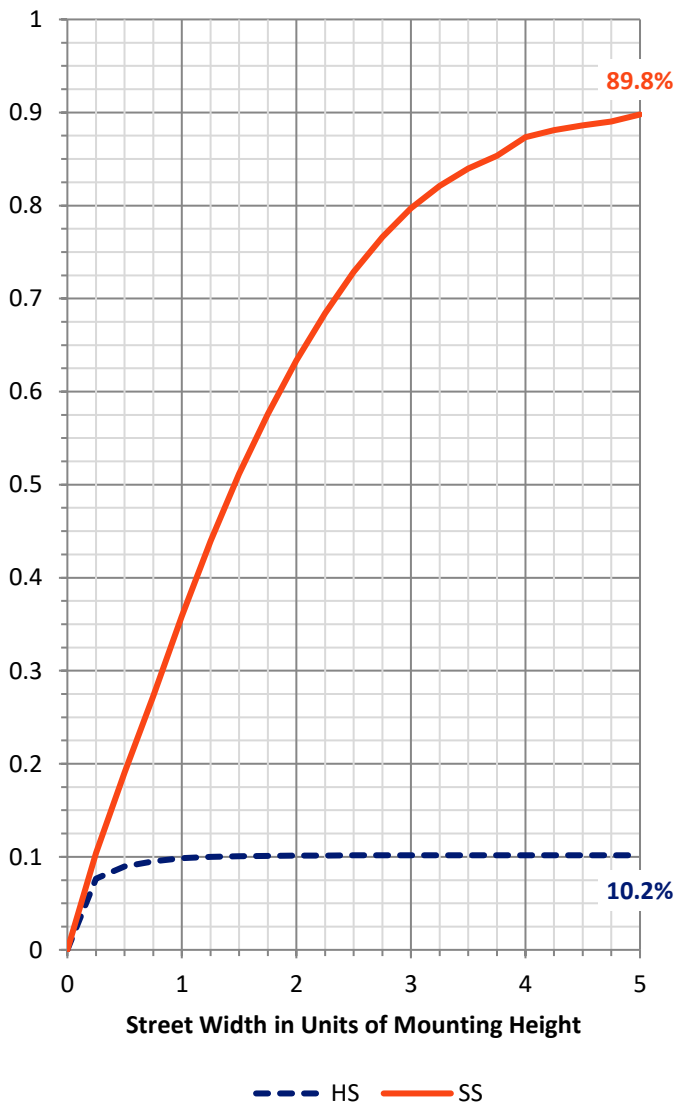
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.5	0.0	2288.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	20064.9	0.0	20064.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	22353.3	0.0	22353.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	1.3
10°-20°	642.7	2.9
20°-30°	970.1	4.3
30°-40°	1574.3	7.0
40°-50°	2960.4	13.2
50°-60°	4840.4	21.7
60°-70°	6434.6	28.8
70°-80°	4309.2	19.3
80°-90°	337.7	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°	22353.3	100.0
0°-180°	22353.3	100.0

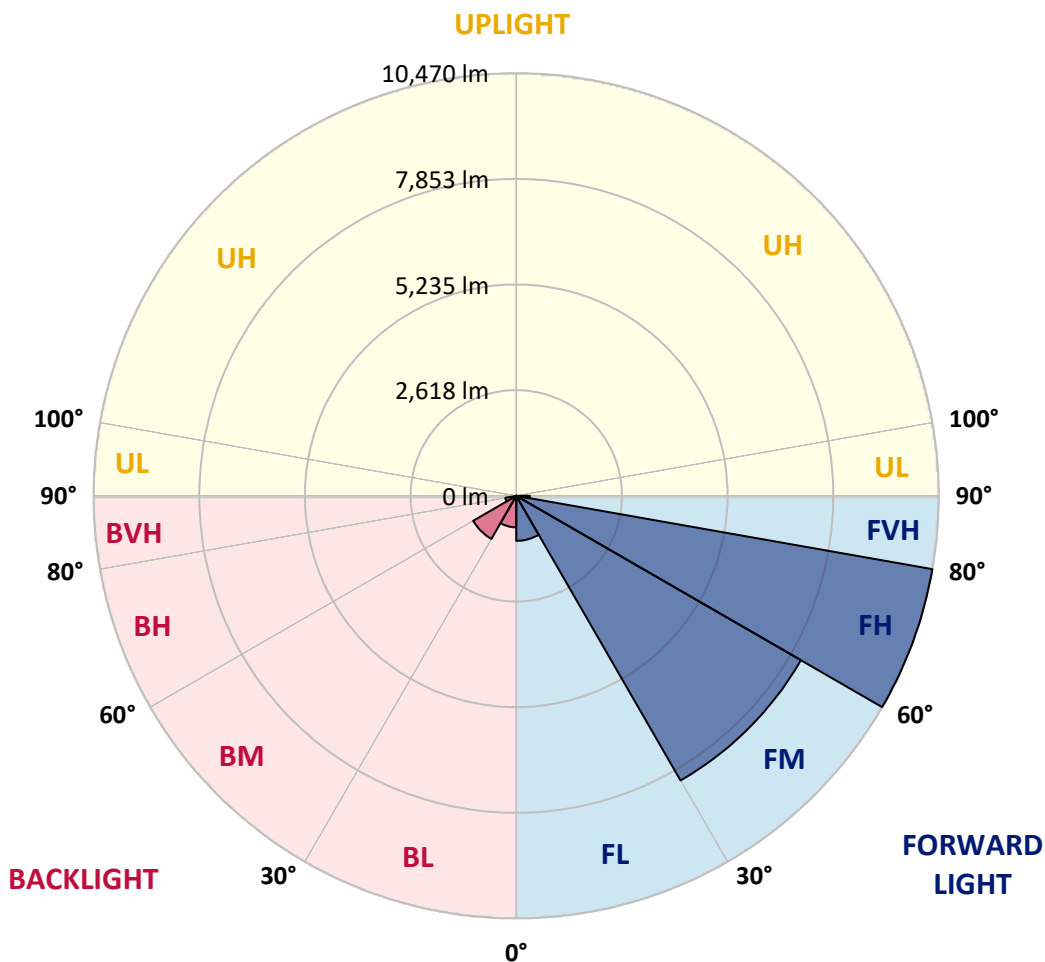


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.9	5.0			
FM (30°-60°)	8143.3	36.4			
FH (60°-80°)	10470.1	46.8			G4/12000
FVH (80°-90°)	335.6	1.5			G3/500
BL (0°-30°)	780.8	3.5	B2/1000		
BM (30°-60°)	1231.9	5.5	B2/2500		
BH (60°-80°)	273.6	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°	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3
2.5°	2892.2	2885.8	2905.1	2937.5	2969.8	2956.8	3018.2	3082.9	3128.1	3189.5
5°	2527.1	2543.2	2562.6	2627.2	2669.2	2678.9	2792.0	2876.1	3015.0	3157.2
7.5°	2194.2	2213.6	2252.4	2323.5	2410.7	2433.3	2546.4	2714.5	2895.4	3082.9
10°	1951.8	1971.2	2013.2	2058.5	2174.8	2174.8	2329.9	2562.6	2798.5	3018.2
12.5°	1900.1	1909.8	1906.6	1942.1	2016.5	2032.6	2184.5	2439.8	2714.5	2995.6
15°	1961.5	1968.0	1935.7	1916.3	1980.9	1997.1	2139.3	2365.5	2659.5	3008.6
17.5°	2084.3	2061.7	1997.1	1968.0	2022.9	2032.6	2165.1	2362.2	2653.1	3044.1
20°	2155.4	2181.3	2068.2	2013.2	2090.8	2103.7	2245.9	2414.0	2685.4	3105.5
22.5°	2281.5	2294.4	2142.5	2107.0	2181.3	2181.3	2342.9	2517.4	2763.0	3205.7
25°	2459.2	2443.0	2265.3	2229.8	2300.8	2329.9	2491.5	2682.2	2882.5	3299.4
27.5°	2598.1	2607.8	2462.4	2368.7	2488.3	2507.7	2682.2	2859.9	2973.0	3376.9
30°	2805.0	2785.6	2630.5	2523.8	2672.5	2675.7	2843.7	3027.9	3147.5	3515.9
32.5°	3050.6	3011.8	2834.0	2682.2	2801.7	2830.8	3002.1	3270.3	3419.0	3777.7
35°	3570.8	3477.1	3186.3	2950.4	2960.1	2973.0	3238.0	3622.5	3793.8	4110.5
37.5°	4330.2	4291.5	3961.9	3512.7	3341.4	3302.6	3599.9	4087.9	4301.2	4550.0
40°	5083.2	5028.3	4721.3	4382.0	4071.7	3994.2	4142.8	4705.1	4899.0	5160.7
42.5°	5920.2	5823.2	5461.3	5186.6	4992.7	4908.7	4850.5	5480.7	5700.4	5878.1
45°	6766.8	6608.5	6085.0	5874.9	5771.5	5726.3	5719.8	6456.6	6589.1	6624.6
47.5°	7510.1	7338.8	6863.8	6627.9	6550.3	6537.4	6899.3	7581.2	7477.8	7384.0
50°	8082.1	7972.2	7629.6	7545.6	7487.4	7464.8	8311.5	8738.1	8259.8	8095.0
52.5°	8967.5	8721.9	8334.1	8363.2	8566.8	8570.0	9743.1	9836.8	8909.3	8582.9
55°	9675.2	9513.6	9196.9	9154.9	9691.4	9749.5	11026.0	10670.5	9271.3	9048.3
57.5°	10508.9	10434.6	10205.2	10211.6	10773.9	10896.7	12166.7	11375.0	9571.8	9348.8
60°	11714.3	11501.0	11381.4	11436.4	12098.8	12218.4	13271.9	11882.3	9717.2	9545.9
62.5°	13045.7	12796.8	12667.6	12948.7	13915.0	13934.3	14112.1	12331.5	9626.7	9597.6
65°	14648.5	14402.9	14299.5	14865.0	16012.2	15941.1	15291.6	12522.2	9339.1	9077.4
67.5°	16244.9	16096.2	15883.0	16784.6	18212.9	18212.9	16516.3	12451.1	8586.2	7287.1
70°	17001.1	17104.5	17443.8	18859.2	20374.8	20219.7	17724.9	11633.5	6392.0	3913.4
72°	16496.9	16390.3	17266.1	19537.8	21706.2	21450.9	17521.3	9248.6	3693.6	1715.9
72.5°	15630.9	15731.1	16936.4	19444.1	21457.3	21667.4	17023.7	8531.2	3037.6	1366.9
75°	9584.7	9756.0	12641.7	16509.9	18697.6	18461.7	13168.5	4065.3	1166.6	581.7
77.5°	3499.7	3641.9	6133.4	10389.4	13297.7	13149.1	7619.9	1444.5	633.4	433.0
80°	911.3	985.6	2084.3	4792.4	7820.3	7830.0	3189.5	578.4	429.8	355.5
82.5°	181.0	200.4	639.8	1864.6	3654.9	3606.4	1008.2	310.2	323.2	290.8
85°	22.6	29.1	135.7	633.4	1182.7	1059.9	248.8	155.1	239.1	226.2
87.5°	3.2	3.2	32.3	145.4	248.8	242.4	51.7	48.5	106.6	139.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3270.3	0°	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3	3270.3
3263.8	2.5°	3305.9	3318.8	3364.0	3402.8	3448.0	3461.0	3441.6	3473.9	3428.7	3454.5
3289.7	5°	3312.3	3386.6	3470.7	3525.6	3512.7	3480.4	3454.5	3367.3	3305.9	3283.2
3299.4	7.5°	3357.6	3441.6	3532.1	3532.1	3461.0	3292.9	3131.4	2976.2	2847.0	2782.3
3302.6	10°	3415.7	3503.0	3596.7	3473.9	3208.9	2901.9	2672.5	2381.6	2184.5	2081.1
3354.3	12.5°	3493.3	3616.1	3648.4	3364.0	2924.5	2468.9	2052.0	1648.1	1460.7	1312.0
3438.3	15°	3593.5	3713.0	3616.1	3124.9	2562.6	1890.4	1389.6	1005.0	856.4	778.8
3535.3	17.5°	3726.0	3816.4	3606.4	2905.1	2074.6	1292.6	853.1	678.6	646.3	633.4
3671.0	20°	3881.1	3948.9	3512.7	2562.6	1541.4	830.5	626.9	607.5	610.8	604.3
3832.6	22.5°	4055.6	4078.2	3406.0	2165.1	1043.8	614.0	584.9	588.1	591.4	584.9
3981.2	25°	4239.8	4178.4	3250.9	1699.8	694.8	559.1	565.5	572.0	575.2	578.4
4162.2	27.5°	4446.6	4323.8	3034.4	1244.1	542.9	526.7	546.1	565.5	568.7	568.7
4433.7	30°	4750.3	4546.8	2824.4	843.4	478.3	491.2	523.5	546.1	562.3	562.3
4853.8	32.5°	5134.9	4779.4	2530.3	575.2	442.7	449.2	475.0	520.3	555.8	559.1
5416.0	35°	5668.1	5060.6	2223.3	458.9	416.9	420.1	436.3	471.8	533.2	552.6
6146.4	37.5°	6230.4	5380.5	1842.0	413.6	397.5	394.2	403.9	433.0	488.0	536.4
6896.1	40°	6828.2	5716.6	1441.3	391.0	381.3	374.9	378.1	391.0	433.0	494.4
7629.6	42.5°	7390.5	6020.3	1082.6	368.4	365.2	358.7	358.7	361.9	384.6	426.6
8444.0	45°	7998.0	6269.2	824.0	352.2	342.5	345.8	332.8	326.4	342.5	345.8
9352.0	47.5°	8566.8	6518.0	659.2	332.8	323.2	323.2	307.0	294.1	294.1	265.0
10150.2	50°	9100.0	6653.7	526.7	307.0	303.8	300.5	277.9	255.3	235.9	200.4
10903.2	52.5°	9542.7	6647.3	407.2	274.7	284.4	274.7	239.1	206.8	177.7	145.4
11181.1	55°	9675.2	6337.0	307.0	226.2	242.4	229.4	190.7	161.6	129.3	103.4
11223.1	57.5°	9562.1	5865.2	232.7	174.5	187.4	174.5	145.4	119.6	90.5	71.1
11119.7	60°	9184.0	5312.6	181.0	135.7	142.2	132.5	109.9	90.5	64.6	45.2
10454.0	62.5°	8466.6	4621.1	139.0	106.6	103.4	103.4	84.0	67.9	45.2	25.9
8705.7	65°	6947.8	3603.2	106.6	74.3	74.3	74.3	64.6	48.5	29.1	12.9
5694.0	67.5°	4362.6	2097.3	87.3	58.2	54.9	54.9	45.2	32.3	16.2	3.2
2239.4	70°	1641.6	769.1	67.9	45.2	42.0	42.0	32.3	19.4	9.7	0.0
778.8	72°	565.5	294.1	54.9	32.3	32.3	29.1	22.6	16.2	6.5	0.0
588.1	72.5°	465.3	235.9	51.7	32.3	29.1	29.1	22.6	16.2	6.5	0.0
210.0	75°	168.0	96.9	35.5	22.6	19.4	19.4	16.2	9.7	3.2	0.0
106.6	77.5°	84.0	61.4	29.1	19.4	16.2	9.7	9.7	6.5	3.2	0.0
64.6	80°	51.7	38.8	16.2	12.9	9.7	6.5	3.2	3.2	0.0	0.0
45.2	82.5°	35.5	22.6	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0
29.1	85°	22.6	9.7	6.5	6.5	3.2	0.0	0.0	0.0	0.0	0.0
16.2	87.5°	9.7	6.5	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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