

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: P575324

Luminaire Tested: **EPH-VN-04-730-U-T4W-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575324  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-730-U-T4W-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

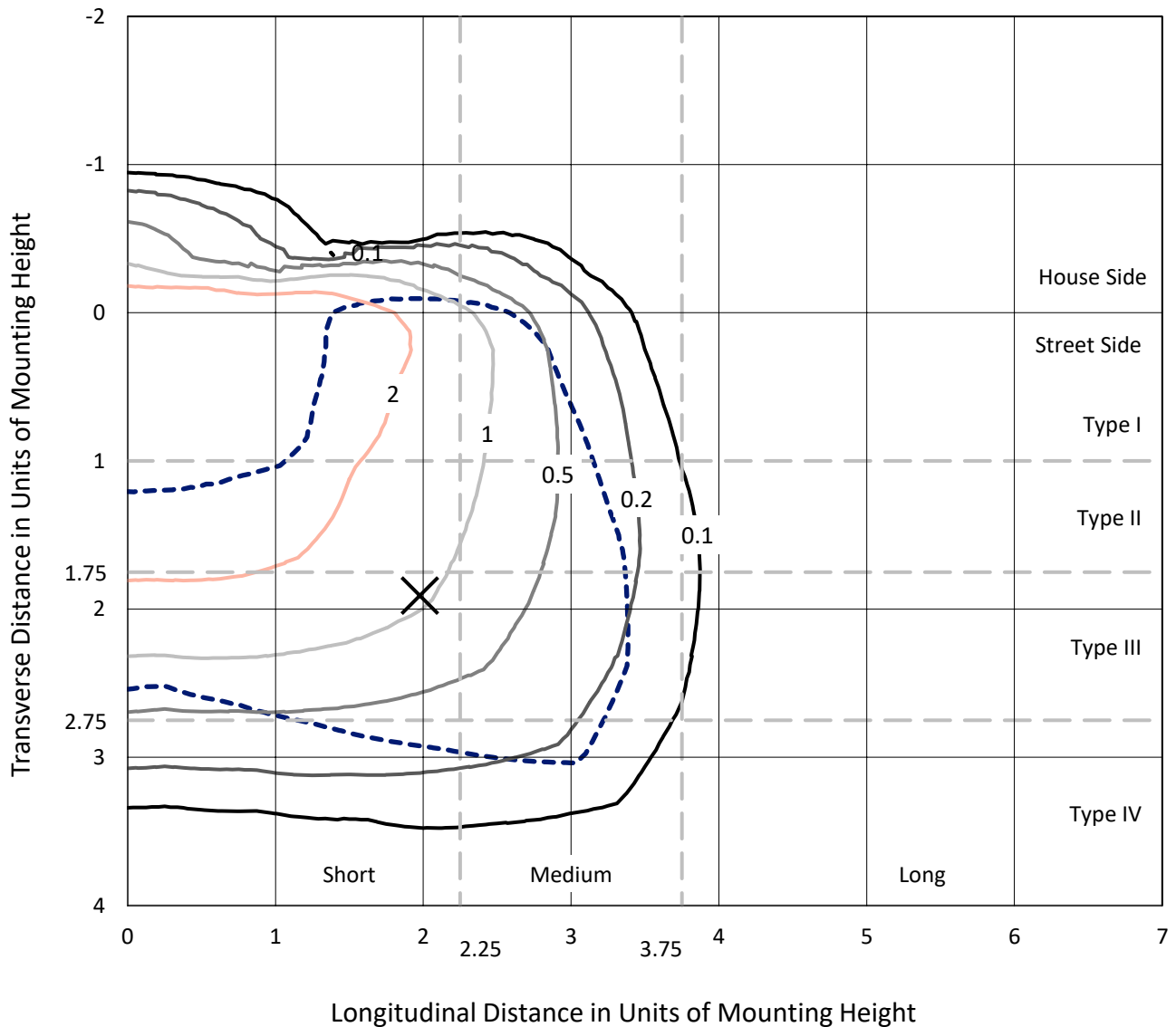
Lumens per Lamp: N/A  
Luminaire Lumens: 20305.1 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

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

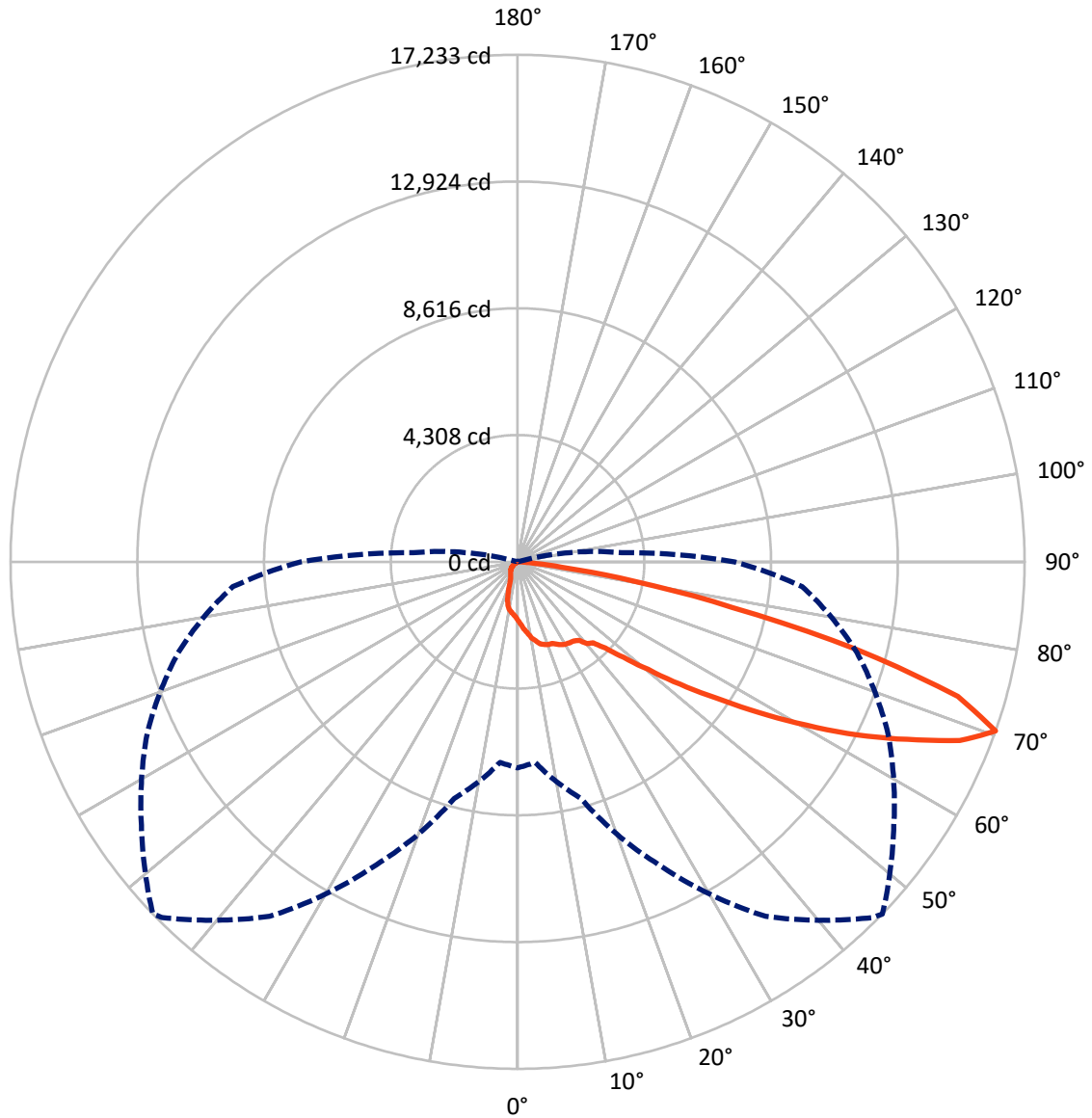
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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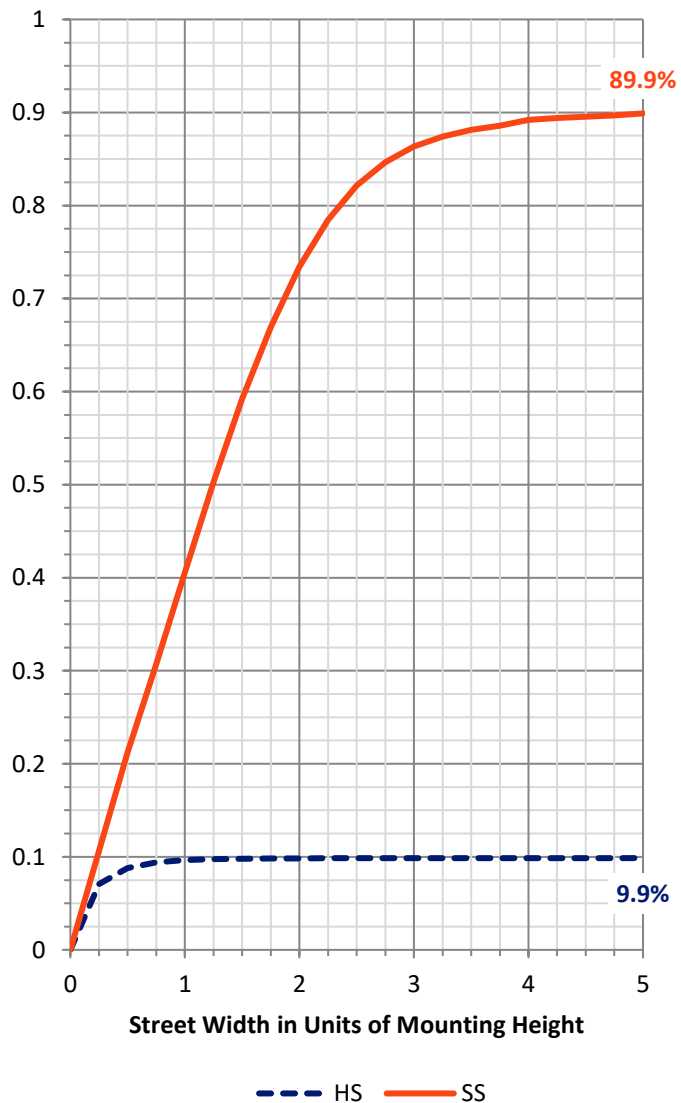
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2020.4	0.0	2020.4
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	18284.7	0.0	18284.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	20305.1	0.0	20305.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.8	1.0
10°-20°	600.2	3.0
20°-30°	961.4	4.7
30°-40°	1372.3	6.8
40°-50°	2369.6	11.7
50°-60°	4536.9	22.3
60°-70°	6718.4	33.1
70°-80°	3327.5	16.4
80°-90°	219.9	1.1
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°	20305.1	100.0
0°-180°	20305.1	100.0

**Coefficient of Utilization**



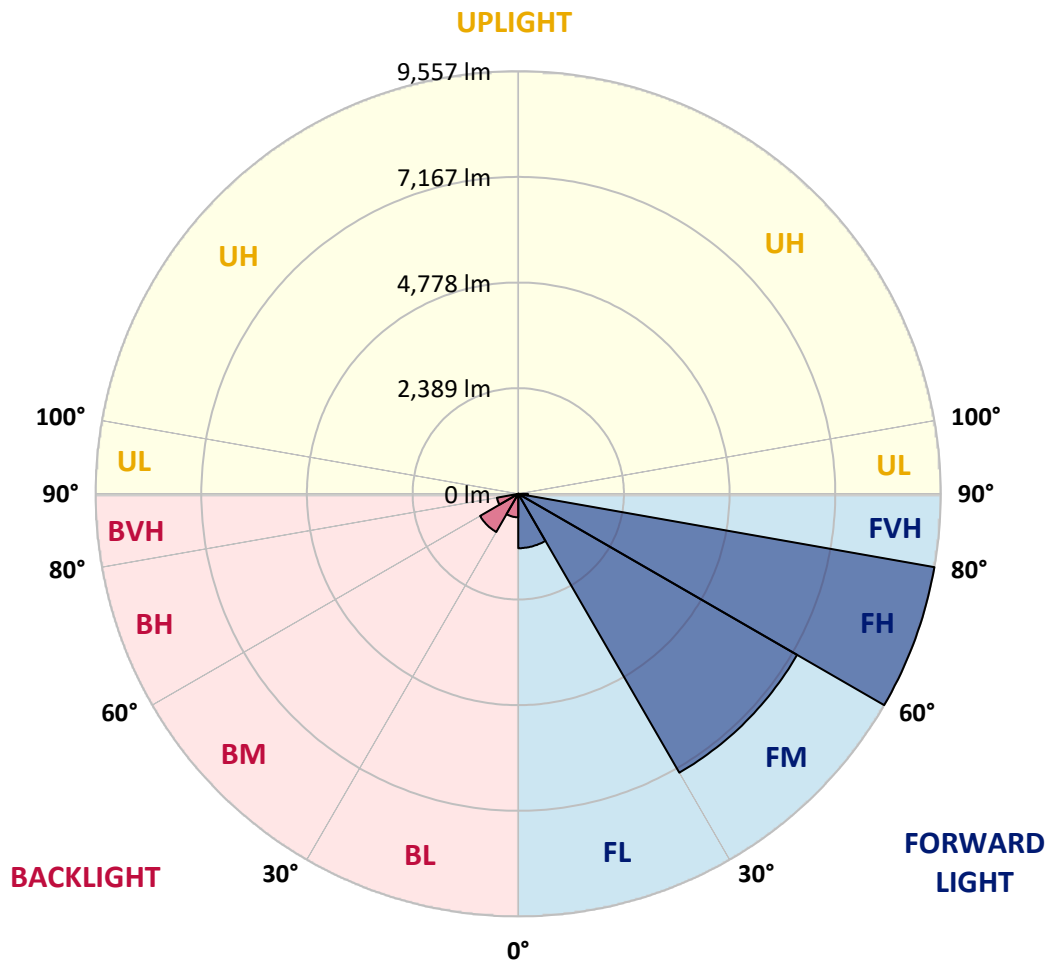
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.6	6.1			
FM (30°-60°)	7281.4	35.9			
FH (60°-80°)	9556.6	47.1			G4/12000
FVH (80°-90°)	217.1	1.1			G2/225
BL (0°-30°)	530.8	2.6	B2/1000		
BM (30°-60°)	997.5	4.9	B1/1000		
BH (60°-80°)	489.3	2.4	B1/500		G1/500
BVH (80°-90°)	2.8	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°	35°	45°	46°	55°	65°	75°
0°	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3
2.5°	2224.2	2209.6	2186.2	2177.5	2154.1	2142.4	2124.9	2116.1	2083.9	2051.8
5°	2496.0	2461.0	2472.7	2437.6	2361.6	2300.2	2297.3	2230.1	2157.0	2098.5
7.5°	2770.8	2741.6	2697.7	2648.0	2563.3	2472.7	2446.4	2382.1	2279.8	2177.5
10°	2978.3	2957.8	2919.8	2849.7	2732.8	2630.5	2633.4	2525.3	2417.1	2300.2
12.5°	3106.9	3115.7	3060.1	2990.0	2887.7	2759.1	2756.2	2683.1	2560.3	2437.6
15°	3235.5	3267.7	3182.9	3101.1	2969.5	2876.0	2893.5	2805.9	2686.0	2545.7
17.5°	3256.0	3264.7	3247.2	3127.4	3030.9	2952.0	2954.9	2896.5	2805.9	2653.9
20°	3220.9	3215.0	3194.6	3106.9	3042.6	2995.8	2998.8	2984.1	2934.5	2811.7
22.5°	3118.6	3118.6	3092.3	3033.8	3004.6	3048.4	3013.4	3068.9	3016.3	2943.2
25°	3036.8	3068.9	3054.3	3016.3	3028.0	3086.4	3104.0	3156.6	3147.8	3057.2
27.5°	3124.4	3086.4	3095.2	3051.4	3095.2	3182.9	3191.7	3229.7	3226.7	3153.7
30°	3182.9	3218.0	3150.7	3054.3	3101.1	3250.1	3244.3	3294.0	3317.3	3229.7
32.5°	3370.0	3340.7	3285.2	3156.6	3162.4	3247.2	3273.5	3337.8	3352.4	3299.8
35°	3752.8	3709.0	3466.4	3273.5	3244.3	3285.2	3302.7	3428.4	3454.7	3396.3
37.5°	4343.2	4243.9	3951.6	3524.9	3393.3	3384.6	3384.6	3551.2	3650.5	3516.1
40°	5187.9	5047.6	4732.0	3989.6	3589.2	3624.2	3659.3	3749.9	3738.2	3650.5
42.5°	6263.5	6155.3	5813.4	4770.0	3963.3	3787.9	3758.7	3881.4	4065.6	4030.5
45°	7160.8	7166.6	6947.4	5839.7	4609.2	4164.9	4185.4	4278.9	4588.7	4562.4
47.5°	7815.5	7733.6	7701.5	6871.4	5550.3	4881.0	4851.8	4916.1	5319.4	5486.0
50°	8411.7	8356.2	8280.2	7873.9	6681.4	5778.3	5749.1	5754.9	6371.6	6605.5
52.5°	9151.2	9221.3	8970.0	8721.5	8145.8	6944.5	6912.3	6798.4	7564.1	7885.6
55°	10063.1	9931.6	9648.1	9776.7	9545.8	8204.2	8145.8	8011.3	8923.2	9057.7
57.5°	10264.8	10165.4	10457.7	10913.6	11135.7	9683.1	9659.7	9417.2	10066.0	9943.3
60°	10767.5	10793.8	11200.0	12106.1	12491.9	11390.0	11276.0	10849.3	11173.7	11197.1
62.5°	11284.8	11223.4	12132.4	13003.4	13596.7	13006.3	12968.3	12120.7	12489.0	12190.9
65°	10904.8	10998.4	12299.0	13757.5	15028.9	14587.5	14555.4	13345.4	13547.0	13175.8
67.5°	9554.5	9364.5	11185.4	13412.6	15765.4	16244.7	16209.7	14681.1	14143.3	13170.0
70°	7003.0	6839.3	8324.0	11357.9	14710.3	17092.3	17232.6	15610.5	13900.7	11942.4
72.5°	3431.3	3434.3	4664.7	7701.5	11638.5	15578.4	15648.5	14312.8	11942.4	8803.4
75°	1014.2	1025.9	1727.4	3776.2	7523.2	11831.4	11910.3	10863.9	8277.3	4547.8
77.5°	371.2	371.2	572.9	1417.5	3752.8	7467.7	7461.8	6669.8	4191.2	1540.3
80°	192.9	201.7	298.1	578.7	1625.1	3890.2	4036.3	3264.7	1592.9	648.9
82.5°	78.9	87.7	163.7	298.1	780.4	1364.9	1493.5	1280.2	692.7	453.0
85°	23.4	26.3	78.9	166.6	306.9	342.0	380.0	429.6	435.5	350.7
87.5°	2.9	2.9	32.2	55.5	67.2	73.1	84.8	84.8	222.1	245.5
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°
1993.3	0°	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3	1993.3
2031.3	2.5°	2007.9	1993.3	1969.9	1917.3	1905.6	1867.6	1864.7	1829.7	1841.3	1818.0
2019.6	5°	1993.3	1961.2	1896.9	1856.0	1815.0	1788.7	1771.2	1756.6	1753.7	1742.0
2072.2	7.5°	2019.6	1975.8	1876.4	1812.1	1742.0	1718.6	1680.6	1677.7	1657.2	1636.7
2157.0	10°	2107.3	2028.4	1920.3	1812.1	1721.5	1645.5	1557.8	1493.5	1470.2	1417.5
2268.1	12.5°	2177.5	2107.3	1949.5	1838.4	1701.1	1528.6	1335.7	1186.6	1116.5	1049.3
2358.7	15°	2276.8	2174.5	2005.0	1844.3	1622.1	1324.0	1008.4	841.8	777.5	762.8
2493.1	17.5°	2385.0	2276.8	2075.2	1829.7	1461.4	1023.0	742.4	645.9	657.6	675.2
2592.5	20°	2504.8	2373.3	2127.8	1780.0	1207.1	742.4	607.9	605.0	622.5	648.9
2762.0	22.5°	2630.5	2516.5	2192.1	1630.9	900.2	596.2	584.6	584.6	596.2	628.4
2878.9	25°	2770.8	2618.8	2224.2	1400.0	645.9	549.5	555.3	567.0	572.9	599.2
2984.1	27.5°	2878.9	2732.8	2233.0	1122.3	526.1	508.6	523.2	537.8	546.6	567.0
3083.5	30°	2978.3	2876.0	2186.2	835.9	482.3	473.5	479.3	499.8	517.3	534.9
3180.0	32.5°	3104.0	2957.8	2078.1	593.3	456.0	441.3	438.4	447.2	467.6	488.1
3282.3	35°	3232.6	3095.2	1905.6	476.4	432.6	412.1	400.4	391.7	400.4	415.0
3434.3	37.5°	3419.6	3302.7	1689.4	438.4	415.0	385.8	362.4	342.0	327.3	324.4
3633.0	40°	3685.6	3536.5	1411.7	412.1	394.6	359.5	324.4	289.4	257.2	236.7
4018.8	42.5°	4089.0	3881.4	1110.7	397.5	380.0	330.3	280.6	230.9	190.0	169.5
4559.5	45°	4664.7	4337.4	815.5	382.9	362.4	295.2	230.9	172.4	131.5	119.8
5562.0	47.5°	5532.8	4886.9	584.6	359.5	339.0	257.2	181.2	122.8	96.5	90.6
6792.5	50°	6666.8	5538.6	456.0	333.2	309.8	216.3	134.4	90.6	76.0	73.1
8107.8	52.5°	7856.4	6196.3	400.4	309.8	266.0	172.4	99.4	73.1	64.3	61.4
9291.5	55°	8873.5	6620.1	347.8	274.7	213.4	128.6	78.9	64.3	55.5	46.8
10603.8	57.5°	9902.3	6833.4	274.7	228.0	157.8	96.5	67.2	55.5	46.8	38.0
11901.5	60°	10738.2	6985.4	195.8	169.5	111.1	76.0	58.5	49.7	38.0	29.2
13123.2	62.5°	11287.7	6549.9	143.2	128.6	81.8	64.3	49.7	40.9	29.2	20.5
13620.1	65°	11015.9	5947.8	111.1	90.6	61.4	49.7	40.9	29.2	20.5	11.7
12588.4	67.5°	9884.8	4845.9	90.6	67.2	46.8	38.0	32.2	23.4	11.7	2.9
9712.4	70°	7374.1	3551.2	73.1	49.7	38.0	29.2	23.4	14.6	5.8	2.9
5500.6	72.5°	4033.4	1943.6	58.5	40.9	29.2	23.4	17.5	11.7	5.8	0.0
1876.4	75°	1332.8	517.3	43.8	29.2	17.5	14.6	11.7	8.8	2.9	0.0
438.4	77.5°	321.5	134.4	35.1	26.3	14.6	8.8	5.8	2.9	2.9	0.0
128.6	80°	99.4	55.5	26.3	17.5	11.7	8.8	2.9	0.0	0.0	0.0
58.5	82.5°	40.9	26.3	11.7	11.7	8.8	2.9	0.0	0.0	0.0	0.0
26.3	85°	20.5	14.6	8.8	5.8	5.8	2.9	0.0	0.0	0.0	0.0
14.6	87.5°	14.6	5.8	2.9	2.9	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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180°
1993.3
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