

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: P575209

Luminaire Tested: **EPH-VN-03-735-U-T3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575209  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-735-U-T3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

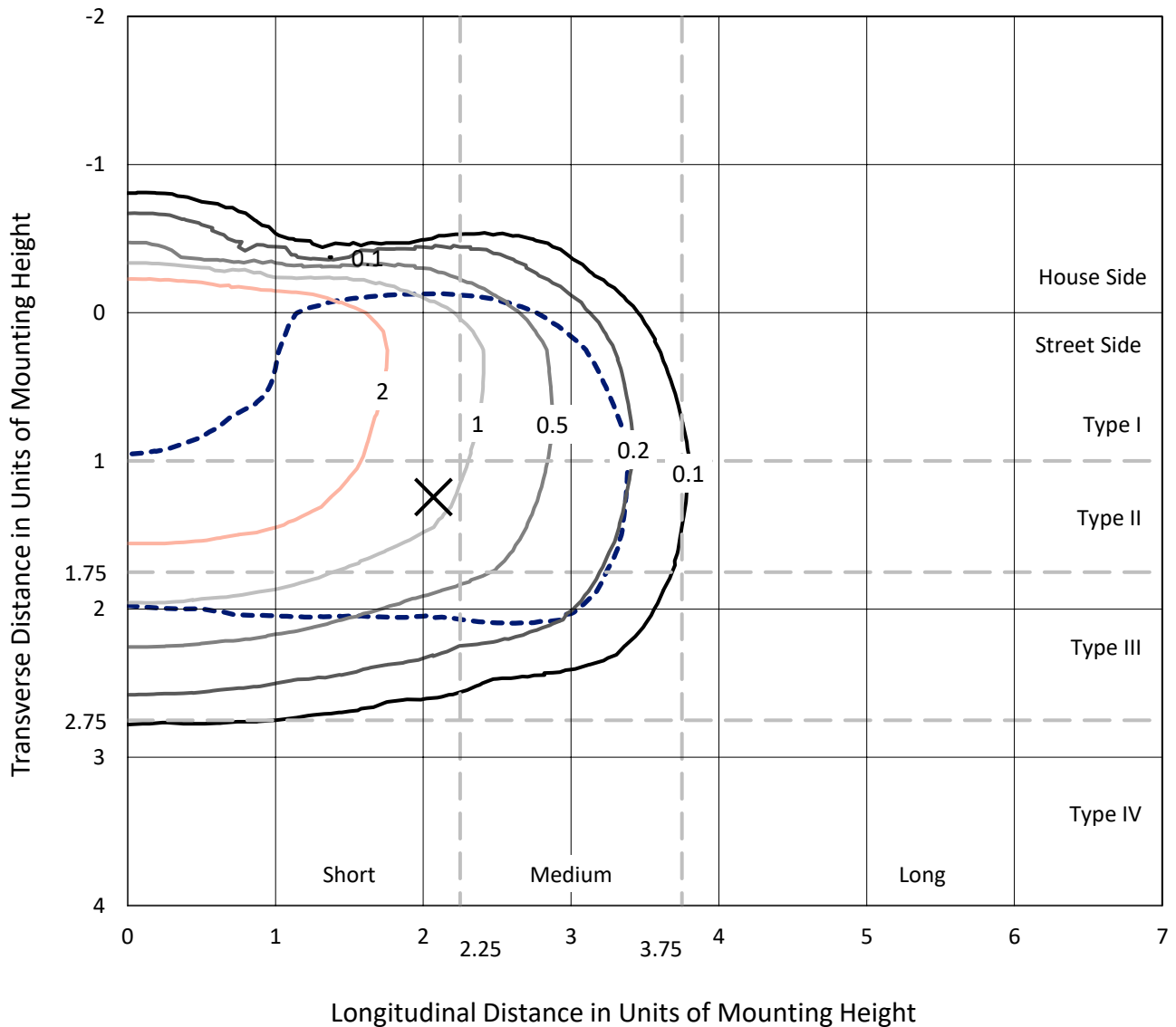
Lumens per Lamp: N/A  
Luminaire Lumens: 17057.9 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
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

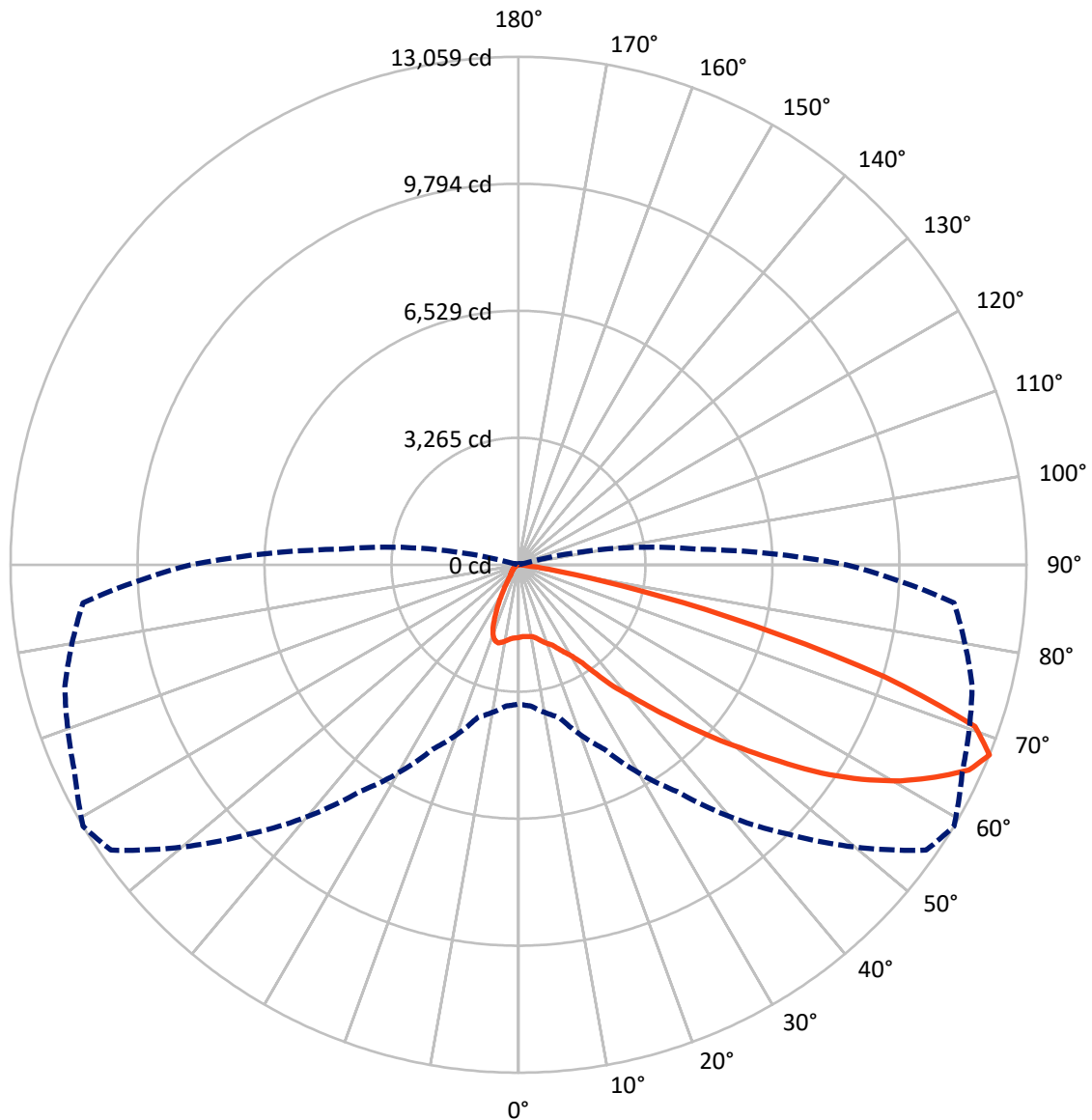
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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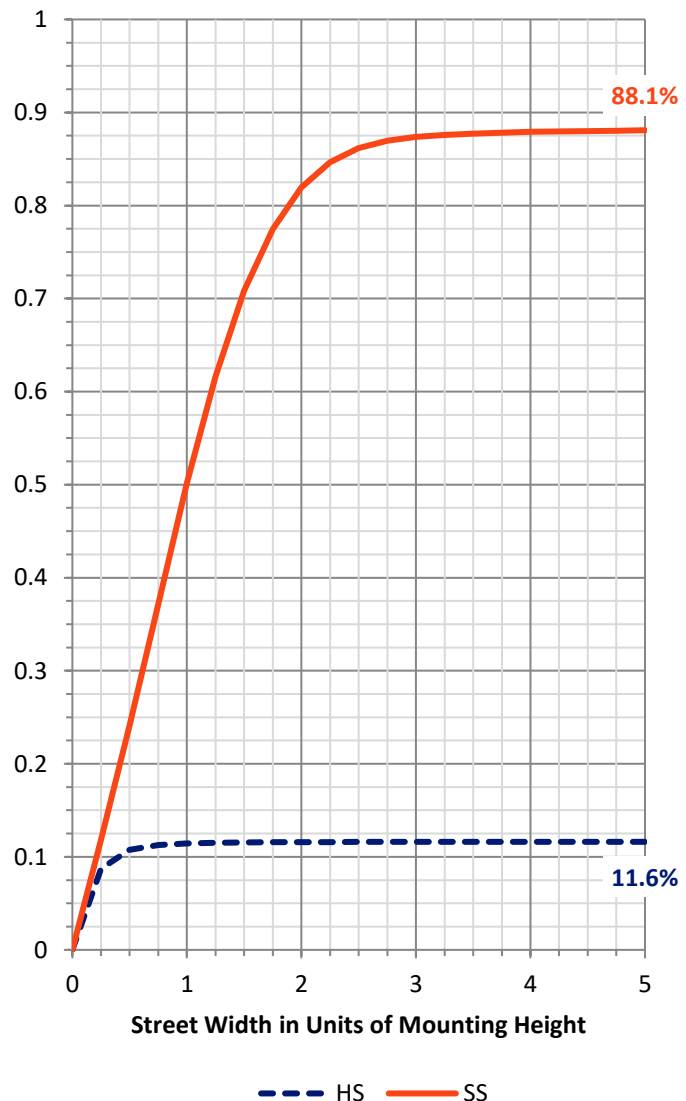
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2003.8	0.0	2003.8
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	15054.2	0.0	15054.2
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	17057.9	0.0	17057.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	1.0
10°-20°	513.4	3.0
20°-30°	897.2	5.3
30°-40°	1579.7	9.3
40°-50°	2792.4	16.4
50°-60°	4421.3	25.9
60°-70°	4904.4	28.8
70°-80°	1701.7	10.0
80°-90°	70.1	0.4
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°	17057.9	100.0
0°-180°	17057.9	100.0

**Coefficient of Utilization**



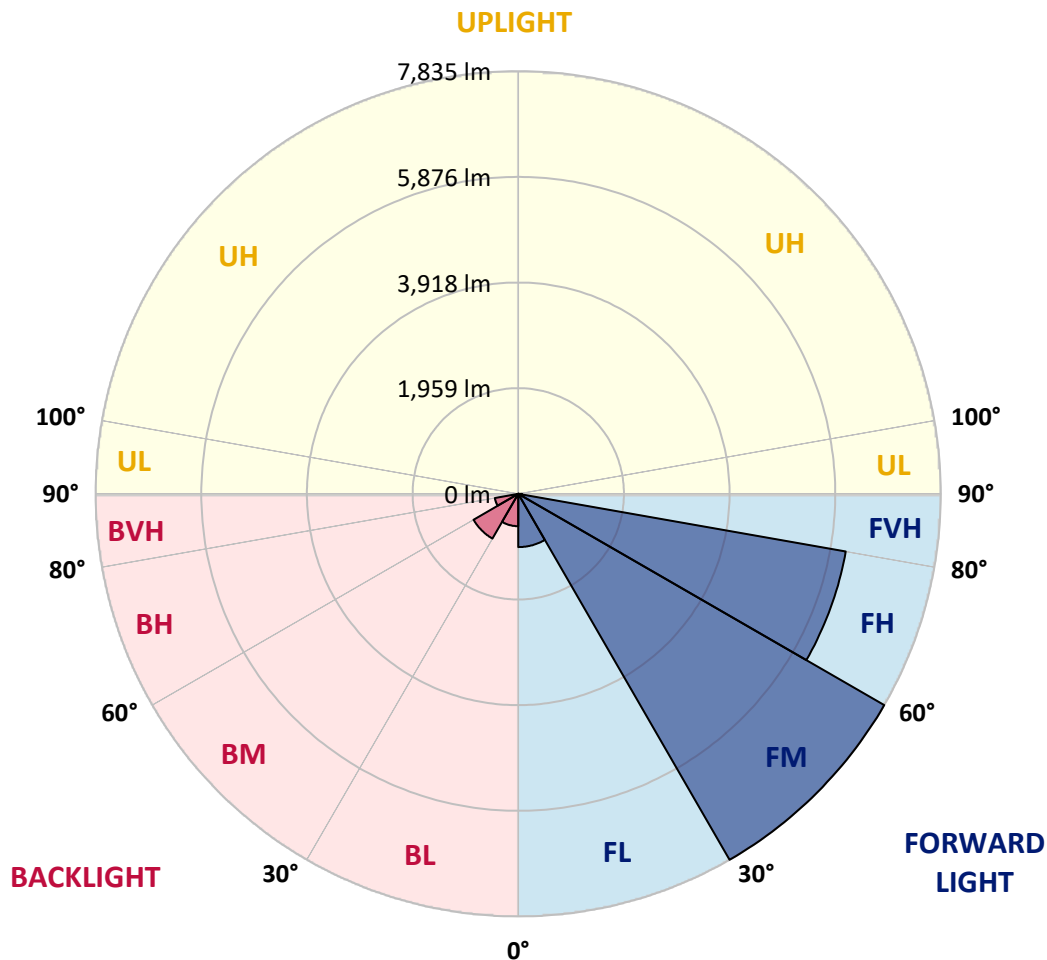
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.8	5.8			
FM (30°-60°)	7835.3	45.9			
FH (60°-80°)	6165.5	36.1			G3/7500
FVH (80°-90°)	65.5	0.4			G1/100
BL (0°-30°)	600.5	3.5	B2/1000		
BM (30°-60°)	958.0	5.6	B1/1000		
BH (60°-80°)	440.7	2.6	B1/500		G1/500
BVH (80°-90°)	4.5	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9
2.5°	1816.8	1790.8	1814.4	1816.8	1819.1	1840.3	1863.9	1847.4	1845.0	1863.9
5°	1743.7	1731.9	1760.2	1774.3	1797.9	1816.8	1854.5	1856.8	1859.2	1880.4
7.5°	1713.1	1684.8	1717.8	1734.3	1750.8	1795.5	1840.3	1863.9	1896.9	1922.8
10°	1651.8	1673.0	1682.4	1710.7	1757.8	1809.7	1863.9	1875.7	1948.7	1969.9
12.5°	1673.0	1687.2	1706.0	1713.1	1764.9	1842.7	1915.7	1920.4	1995.8	2087.7
15°	1727.2	1717.8	1724.9	1734.3	1795.5	1859.2	1977.0	1998.2	2068.9	2172.6
17.5°	1842.7	1826.2	1814.4	1812.0	1826.2	1885.1	2024.1	2087.7	2153.7	2295.1
20°	2132.5	2118.4	2071.2	1948.7	1906.3	1929.9	2080.7	2170.2	2262.1	2420.0
22.5°	2573.1	2587.3	2476.5	2304.5	2127.8	2035.9	2170.2	2248.0	2394.1	2594.3
25°	3093.9	3065.6	2931.3	2731.0	2453.0	2236.2	2313.9	2401.1	2580.2	2745.2
27.5°	3501.5	3468.6	3364.9	3122.2	2881.8	2530.7	2502.5	2556.6	2768.7	2917.2
30°	3904.5	3916.3	3845.6	3558.1	3261.2	2891.2	2712.2	2735.7	2898.3	3089.2
32.5°	4418.2	4389.9	4349.8	4097.7	3746.6	3350.7	3044.4	3006.7	3077.4	3329.5
35°	4896.5	4880.0	4825.8	4571.3	4265.0	3833.8	3534.5	3449.7	3433.2	3713.6
37.5°	5313.6	5285.3	5202.8	5040.2	4743.3	4380.5	4052.9	3977.5	3975.2	4168.4
40°	5664.7	5685.9	5676.5	5497.4	5334.8	5045.0	4543.1	4422.9	4413.5	4517.1
42.5°	6119.5	6168.9	6143.0	6107.7	5912.1	5799.0	5231.1	5047.3	4964.8	5176.9
45°	6807.5	6826.4	6842.9	6755.7	6560.1	6583.7	5942.7	5723.6	5702.4	6018.1
47.5°	7450.8	7401.3	7516.8	7521.5	7512.1	7403.7	6710.9	6548.3	6576.6	6816.9
50°	7611.0	7738.3	8056.4	8115.3	8268.5	8367.4	7563.9	7401.3	7448.4	7721.8
52.5°	7735.9	7929.1	8247.2	8678.5	9090.8	9326.5	8518.2	8386.3	8383.9	8551.2
55°	7955.1	8072.9	8348.6	8942.4	9727.0	10113.5	9668.1	9456.1	9265.2	9383.0
57.5°	7933.9	7978.6	8407.5	9140.3	10231.3	10933.5	10613.0	10410.4	10165.3	10097.0
60°	7561.5	7667.6	8148.3	9006.0	10542.3	11572.1	11494.3	11286.9	10865.2	10704.9
62.5°	6824.0	6965.4	7342.4	8534.7	10089.9	11605.1	12102.2	12024.5	11553.2	11265.7
65°	5530.4	5596.3	6029.9	7337.7	9067.3	11098.4	12820.9	12724.3	12290.8	11861.9
67.5°	3581.7	3645.3	4062.4	5238.2	7120.9	9790.7	12792.7	13058.9	12590.0	12074.0
70°	1691.9	1675.4	2064.2	2910.1	4561.9	7476.7	11927.9	12453.3	12055.1	10945.3
72.5°	516.0	560.8	857.7	1288.9	2342.2	4663.2	9350.0	9842.5	9717.6	8744.4
75°	228.6	247.4	337.0	527.8	949.6	1913.4	5775.4	6213.7	6159.5	5158.1
77.5°	146.1	160.2	212.1	301.6	431.2	607.9	2660.3	3086.8	2992.6	1812.0
80°	103.7	110.7	150.8	207.4	271.0	249.8	916.6	1088.6	1043.9	492.5
82.5°	56.6	61.3	110.7	153.2	181.4	127.2	256.8	320.5	334.6	219.1
85°	21.2	25.9	68.3	108.4	94.3	58.9	75.4	91.9	120.2	120.2
87.5°	0.0	2.4	28.3	47.1	23.6	16.5	21.2	25.9	33.0	56.6
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°
1870.9	0°	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9
1880.4	2.5°	1892.2	1875.7	1882.7	1894.5	1868.6	1882.7	1854.5	1875.7	1882.7	1854.5
1908.6	5°	1915.7	1932.2	1922.8	1903.9	1887.4	1892.2	1885.1	1868.6	1882.7	1887.4
1951.1	7.5°	1984.1	1965.2	1969.9	1948.7	1915.7	1913.4	1868.6	1856.8	1861.5	1866.2
2038.2	10°	2047.7	2059.5	2035.9	2019.4	1965.2	1929.9	1868.6	1802.6	1795.5	1767.3
2123.1	12.5°	2160.8	2132.5	2123.1	2068.9	2014.7	1896.9	1764.9	1663.6	1578.8	1548.1
2259.7	15°	2255.0	2250.3	2233.8	2151.4	2026.5	1812.0	1562.3	1326.6	1164.0	1062.7
2339.9	17.5°	2384.6	2363.4	2332.8	2203.2	1939.3	1590.5	1164.0	867.1	704.6	640.9
2493.0	20°	2483.6	2467.1	2424.7	2191.4	1781.4	1185.2	721.0	551.4	511.3	499.5
2660.3	22.5°	2627.3	2575.5	2495.4	2132.5	1493.9	789.4	518.4	492.5	485.4	476.0
2771.1	25°	2752.2	2705.1	2537.8	2031.2	1065.1	523.1	480.7	466.6	454.8	443.0
2888.9	27.5°	2863.0	2804.1	2582.6	1823.8	666.8	450.1	445.4	428.9	405.3	386.4
3025.6	30°	2971.4	2903.0	2594.3	1435.0	450.1	407.6	395.9	369.9	339.3	313.4
3254.1	32.5°	3152.8	3070.3	2577.9	1025.0	388.8	362.9	337.0	306.3	261.6	240.3
3581.7	35°	3435.6	3310.7	2556.6	603.2	348.7	320.5	280.4	240.3	207.4	186.2
3913.9	37.5°	3760.7	3544.0	2495.4	402.9	320.5	282.8	230.9	190.9	162.6	146.1
4368.7	40°	4243.8	3885.6	2259.7	329.9	285.1	240.3	186.2	150.8	129.6	117.8
5042.6	42.5°	4776.3	4276.8	1896.9	296.9	252.1	205.0	148.5	122.5	106.0	94.3
5716.5	45°	5414.9	4684.4	1463.3	271.0	223.9	169.7	122.5	99.0	84.8	75.4
6505.9	47.5°	6126.5	5054.4	987.3	245.1	188.5	139.0	101.3	75.4	61.3	54.2
7366.0	50°	6762.7	5381.9	629.1	214.4	164.9	115.5	82.5	61.3	49.5	40.1
8061.1	52.5°	7340.1	5631.7	433.6	188.5	141.4	94.3	68.3	49.5	37.7	30.6
8782.1	55°	7931.5	5758.9	320.5	162.6	122.5	80.1	56.6	44.8	33.0	25.9
9611.6	57.5°	8416.9	5813.1	245.1	141.4	103.7	63.6	49.5	37.7	28.3	21.2
10247.8	60°	8831.6	5787.2	190.9	117.8	82.5	54.2	42.4	30.6	23.6	16.5
11077.2	62.5°	9074.3	5631.7	150.8	101.3	66.0	47.1	35.3	25.9	16.5	11.8
11503.7	65°	9079.0	5301.8	117.8	75.4	49.5	40.1	30.6	21.2	11.8	4.7
11237.5	67.5°	8428.7	4587.8	94.3	58.9	40.1	30.6	23.6	16.5	4.7	0.0
9333.5	70°	6593.1	3470.9	77.8	47.1	33.0	25.9	16.5	9.4	2.4	0.0
6230.2	72.5°	4201.4	2078.3	63.6	37.7	28.3	18.9	11.8	7.1	0.0	0.0
2844.1	75°	1757.8	640.9	49.5	33.0	21.2	14.1	9.4	2.4	0.0	0.0
744.6	77.5°	452.4	202.6	40.1	28.3	21.2	11.8	7.1	2.4	0.0	0.0
200.3	80°	134.3	75.4	33.0	23.6	16.5	9.4	4.7	2.4	0.0	0.0
96.6	82.5°	61.3	44.8	28.3	21.2	14.1	9.4	4.7	0.0	0.0	0.0
44.8	85°	23.6	14.1	14.1	11.8	11.8	7.1	2.4	0.0	0.0	0.0
16.5	87.5°	9.4	4.7	4.7	4.7	2.4	2.4	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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