

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: P575341

Luminaire Tested: **EPH-VN-03-750-U-T4W-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575341  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-750-U-T4W-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

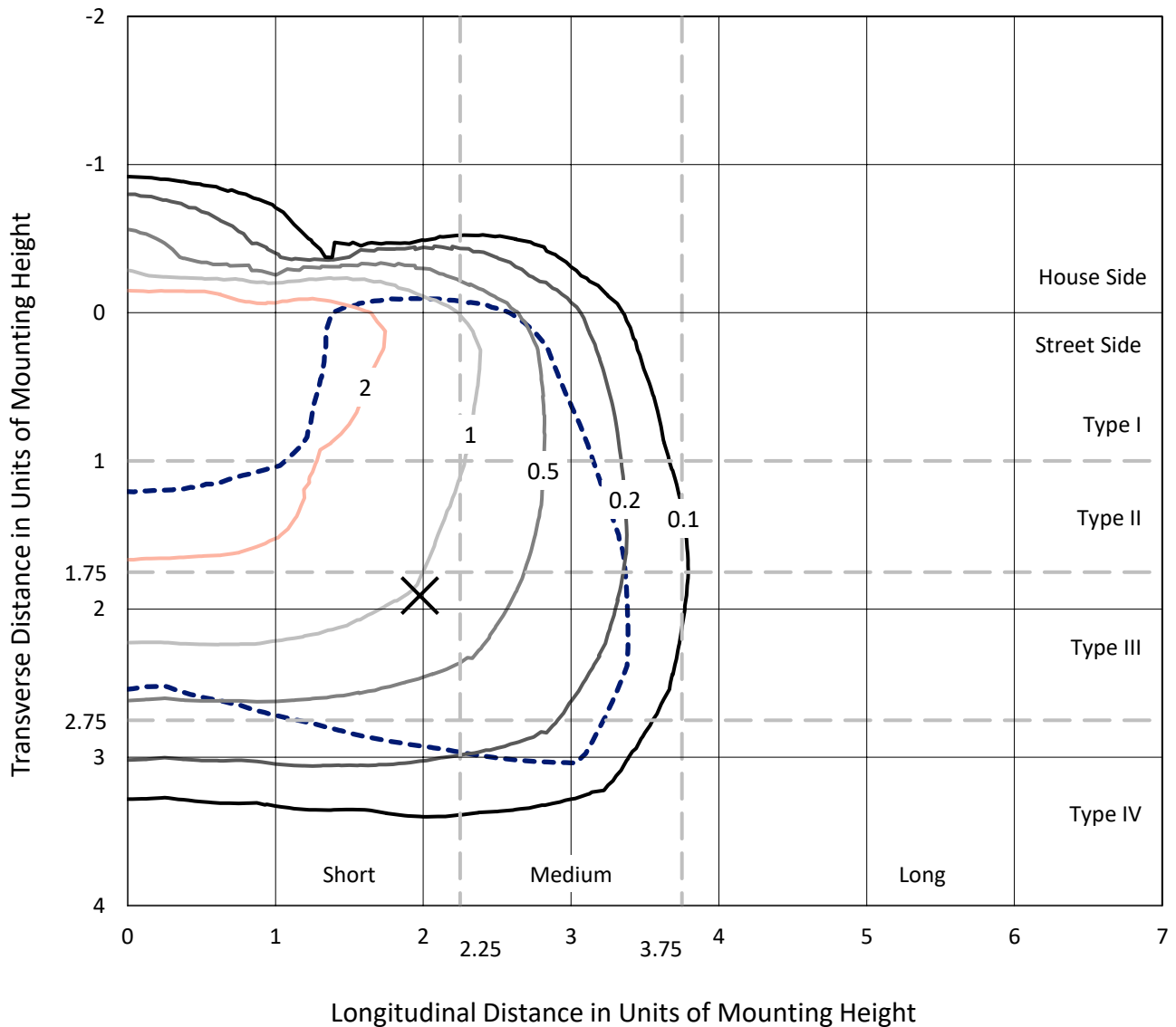
Lumens per Lamp: N/A  
Luminaire Lumens: 17591 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

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

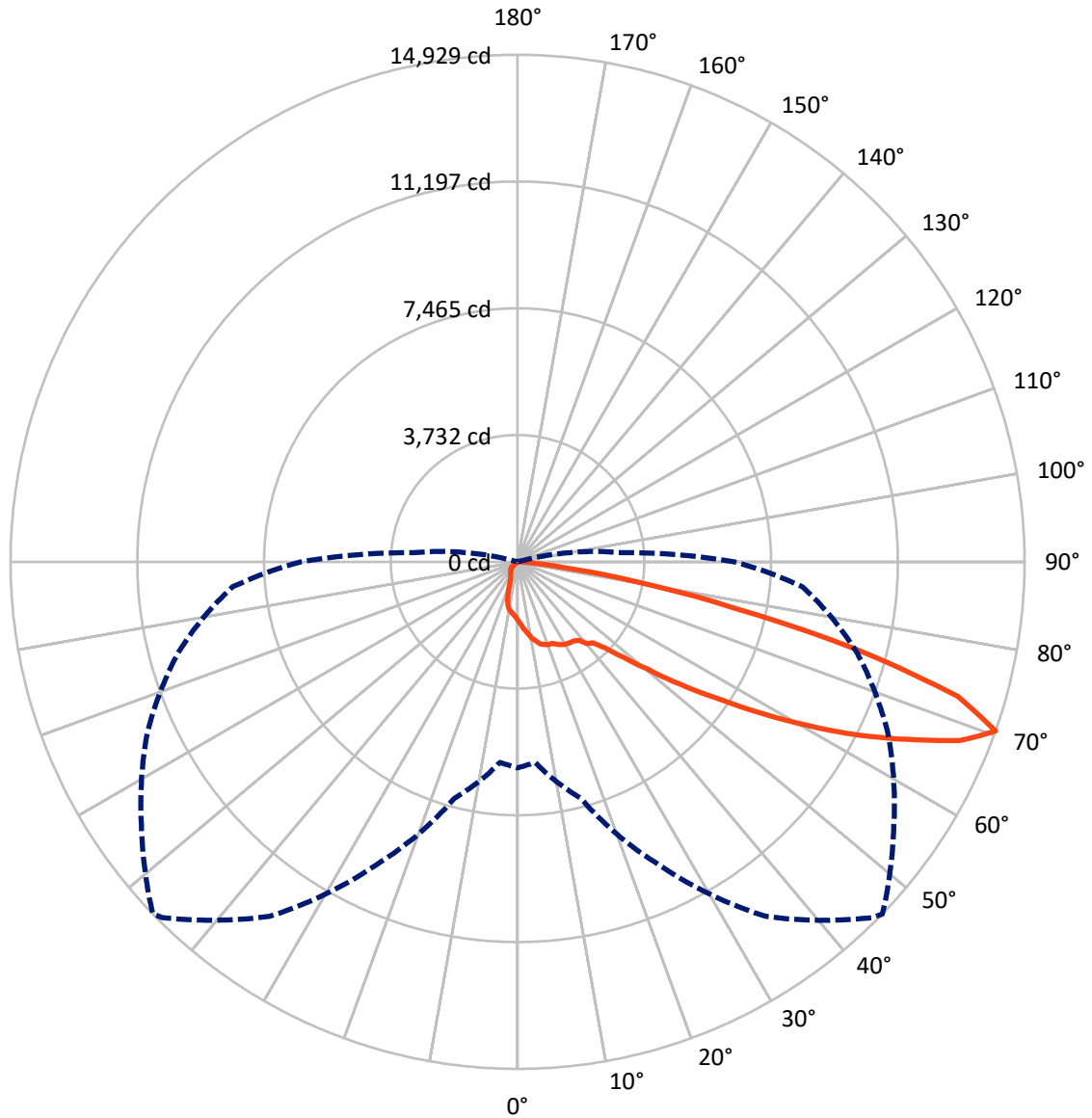
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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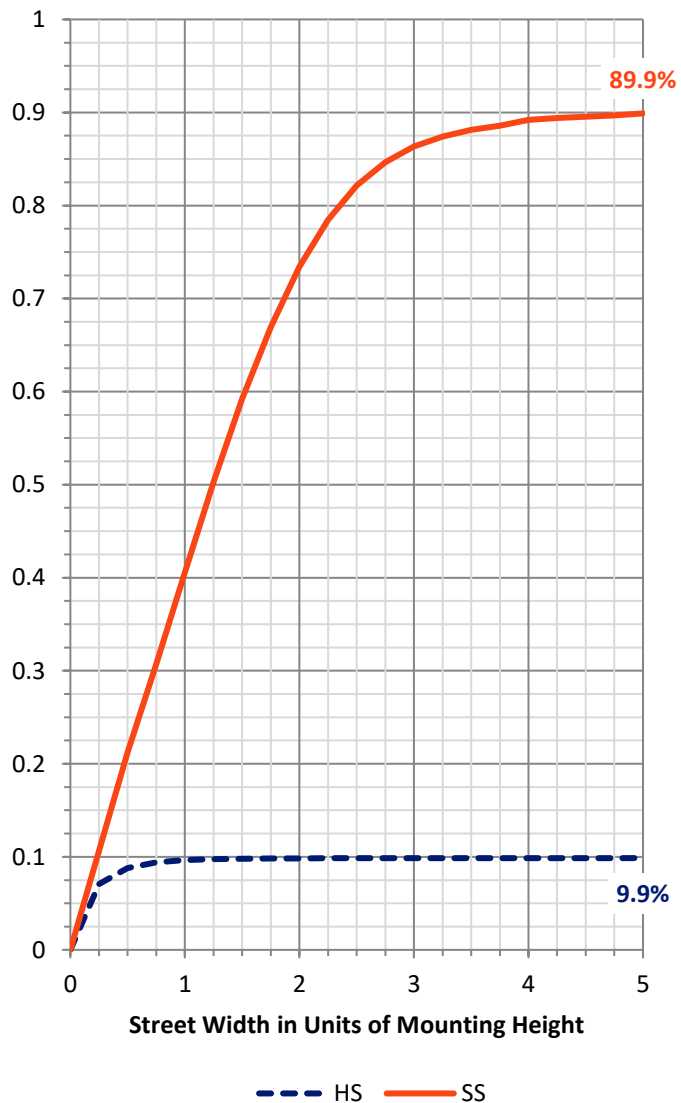
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1750.3	0.0	1750.3
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	15840.7	0.0	15840.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	17591.0	0.0	17591.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.2	1.0
10°-20°	520.0	3.0
20°-30°	832.9	4.7
30°-40°	1188.9	6.8
40°-50°	2052.9	11.7
50°-60°	3930.5	22.3
60°-70°	5820.4	33.1
70°-80°	2882.8	16.4
80°-90°	190.5	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°	17591.0	100.0
0°-180°	17591.0	100.0

**Coefficient of Utilization**

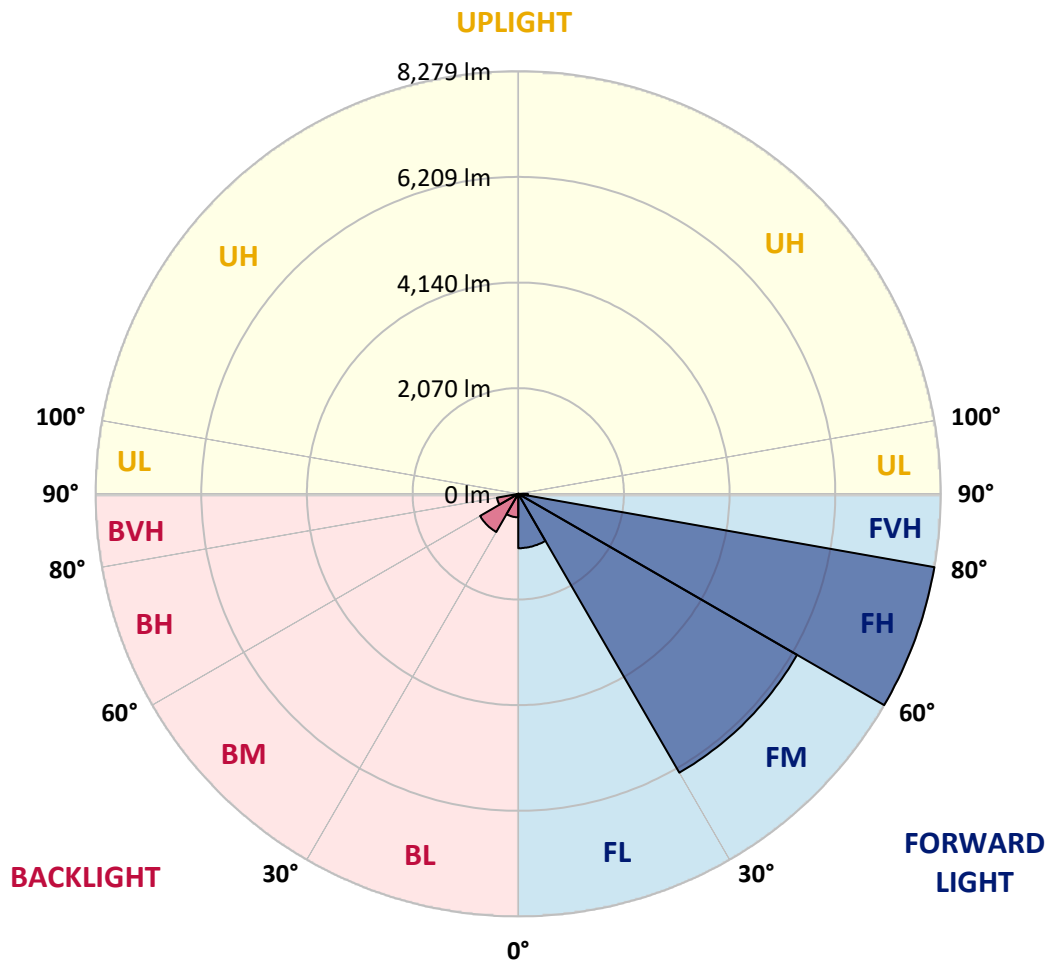


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.3	6.1			
FM (30°-60°)	6308.1	35.9			
FH (60°-80°)	8279.3	47.1			G4/12000
FVH (80°-90°)	188.1	1.1			G2/225
BL (0°-30°)	459.8	2.6	B1/500		
BM (30°-60°)	864.2	4.9	B1/1000		
BH (60°-80°)	423.9	2.4	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9
2.5°	1926.9	1914.3	1894.0	1886.4	1866.2	1856.0	1840.8	1833.2	1805.4	1777.5
5°	2162.4	2132.0	2142.2	2111.8	2045.9	1992.8	1990.2	1932.0	1868.7	1818.0
7.5°	2400.4	2375.1	2337.1	2294.1	2220.7	2142.2	2119.4	2063.7	1975.0	1886.4
10°	2580.2	2562.5	2529.6	2468.8	2367.5	2278.9	2281.4	2187.7	2094.0	1992.8
12.5°	2691.6	2699.2	2651.1	2590.3	2501.7	2390.3	2387.8	2324.5	2218.1	2111.8
15°	2803.0	2830.9	2757.5	2686.6	2572.6	2491.6	2506.8	2430.8	2327.0	2205.5
17.5°	2820.8	2828.4	2813.2	2709.3	2625.8	2557.4	2560.0	2509.3	2430.8	2299.1
20°	2790.4	2785.3	2767.6	2691.6	2635.9	2595.4	2597.9	2585.3	2542.2	2435.9
22.5°	2701.8	2701.8	2679.0	2628.3	2603.0	2641.0	2610.6	2658.7	2613.1	2549.8
25°	2630.9	2658.7	2646.0	2613.1	2623.3	2673.9	2689.1	2734.7	2727.1	2648.6
27.5°	2706.8	2673.9	2681.5	2643.5	2681.5	2757.5	2765.1	2798.0	2795.4	2732.1
30°	2757.5	2787.8	2729.6	2646.0	2686.6	2815.7	2810.6	2853.7	2873.9	2798.0
32.5°	2919.5	2894.2	2846.1	2734.7	2739.7	2813.2	2836.0	2891.7	2904.3	2858.7
35°	3251.2	3213.2	3003.1	2836.0	2810.6	2846.1	2861.3	2970.2	2992.9	2942.3
37.5°	3762.7	3676.6	3423.4	3053.7	2939.8	2932.2	2932.2	3076.5	3162.6	3046.1
40°	4494.5	4372.9	4099.5	3456.3	3109.4	3139.8	3170.2	3248.7	3238.6	3162.6
42.5°	5426.3	5332.6	5036.3	4132.4	3433.5	3281.6	3256.3	3362.6	3522.2	3491.8
45°	6203.6	6208.7	6018.8	5059.1	3993.1	3608.2	3626.0	3707.0	3975.4	3952.6
47.5°	6770.8	6699.9	6672.1	5953.0	4808.5	4228.6	4203.3	4259.0	4608.4	4752.8
50°	7287.4	7239.3	7173.4	6821.5	5788.4	5006.0	4980.6	4985.7	5520.0	5722.5
52.5°	7928.0	7988.8	7771.0	7555.8	7057.0	6016.3	5988.4	5889.7	6553.1	6831.6
55°	8718.0	8604.1	8358.5	8469.9	8269.8	7107.6	7057.0	6940.5	7730.5	7847.0
57.5°	8892.7	8806.6	9059.9	9454.9	9647.3	8388.9	8368.6	8158.4	8720.6	8614.2
60°	9328.3	9351.0	9703.0	10488.0	10822.2	9867.6	9768.8	9399.2	9680.2	9700.5
62.5°	9776.4	9723.3	10510.8	11265.3	11779.3	11267.8	11234.9	10500.6	10819.7	10561.4
65°	9447.3	9528.3	10655.1	11918.6	13020.1	12637.7	12609.9	11561.6	11736.3	11414.7
67.5°	8277.4	8112.9	9690.4	11619.8	13658.2	14073.4	14043.0	12718.7	12252.8	11409.6
70°	6066.9	5925.1	7211.4	9839.7	12744.1	14807.7	14929.3	13524.0	12042.7	10346.2
72.5°	2972.7	2975.2	4041.2	6672.1	10082.8	13496.1	13556.9	12399.7	10346.2	7626.7
75°	878.6	888.8	1496.5	3271.5	6517.6	10249.9	10318.3	9411.8	7170.9	3939.9
77.5°	321.6	321.6	496.3	1228.1	3251.2	6469.5	6464.5	5778.3	3631.0	1334.4
80°	167.1	174.7	258.3	501.4	1407.8	3370.2	3496.8	2828.4	1380.0	562.1
82.5°	68.4	76.0	141.8	258.3	676.1	1182.5	1293.9	1109.1	600.1	392.5
85°	20.3	22.8	68.4	144.3	265.9	296.3	329.2	372.2	377.3	303.9
87.5°	2.5	2.5	27.9	48.1	58.2	63.3	73.4	73.4	192.4	212.7
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°
1726.9	0°	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9
1759.8	2.5°	1739.6	1726.9	1706.6	1661.1	1650.9	1618.0	1615.5	1585.1	1595.2	1575.0
1749.7	5°	1726.9	1699.0	1643.3	1607.9	1572.4	1549.6	1534.5	1521.8	1519.3	1509.1
1795.3	7.5°	1749.7	1711.7	1625.6	1569.9	1509.1	1488.9	1456.0	1453.4	1435.7	1418.0
1868.7	10°	1825.6	1757.3	1663.6	1569.9	1491.4	1425.6	1349.6	1293.9	1273.6	1228.1
1964.9	12.5°	1886.4	1825.6	1688.9	1592.7	1473.7	1324.3	1157.2	1028.0	967.3	909.0
2043.4	15°	1972.5	1883.9	1737.0	1597.8	1405.3	1147.0	873.6	729.2	673.5	660.9
2159.9	17.5°	2066.2	1972.5	1797.8	1585.1	1266.1	886.2	643.2	559.6	569.7	584.9
2246.0	20°	2170.0	2056.1	1843.4	1542.0	1045.8	643.2	526.7	524.1	539.3	562.1
2392.8	22.5°	2278.9	2180.1	1899.1	1412.9	779.9	516.5	506.4	506.4	516.5	544.4
2494.1	25°	2400.4	2268.8	1926.9	1212.9	559.6	476.0	481.1	491.2	496.3	519.1
2585.3	27.5°	2494.1	2367.5	1934.5	972.3	455.8	440.6	453.2	465.9	473.5	491.2
2671.4	30°	2580.2	2491.6	1894.0	724.2	417.8	410.2	415.3	433.0	448.2	463.4
2754.9	32.5°	2689.1	2562.5	1800.3	514.0	395.0	382.3	379.8	387.4	405.1	422.9
2843.5	35°	2800.5	2681.5	1650.9	412.7	374.8	357.0	346.9	339.3	346.9	359.6
2975.2	37.5°	2962.6	2861.3	1463.6	379.8	359.6	334.2	314.0	296.3	283.6	281.1
3147.4	40°	3193.0	3063.8	1223.0	357.0	341.8	311.4	281.1	250.7	222.8	205.1
3481.6	42.5°	3542.4	3362.6	962.2	344.4	329.2	286.1	243.1	200.0	164.6	146.9
3950.1	45°	4041.2	3757.6	706.5	331.7	314.0	255.7	200.0	149.4	113.9	103.8
4818.6	47.5°	4793.3	4233.7	506.4	311.4	293.7	222.8	157.0	106.3	83.6	78.5
5884.6	50°	5775.7	4798.3	395.0	288.7	268.4	187.4	116.5	78.5	65.8	63.3
7024.0	52.5°	6806.3	5368.1	346.9	268.4	230.4	149.4	86.1	63.3	55.7	53.2
8049.5	55°	7687.5	5735.2	301.3	238.0	184.8	111.4	68.4	55.7	48.1	40.5
9186.5	57.5°	8578.8	5920.1	238.0	197.5	136.7	83.6	58.2	48.1	40.5	32.9
10310.7	60°	9302.9	6051.7	169.7	146.9	96.2	65.8	50.6	43.0	32.9	25.3
11369.1	62.5°	9779.0	5674.4	124.1	111.4	70.9	55.7	43.0	35.4	25.3	17.7
11799.6	65°	9543.5	5152.8	96.2	78.5	53.2	43.0	35.4	25.3	17.7	10.1
10905.8	67.5°	8563.6	4198.2	78.5	58.2	40.5	32.9	27.9	20.3	10.1	2.5
8414.2	70°	6388.5	3076.5	63.3	43.0	32.9	25.3	20.3	12.7	5.1	2.5
4765.4	72.5°	3494.3	1683.8	50.6	35.4	25.3	20.3	15.2	10.1	5.1	0.0
1625.6	75°	1154.6	448.2	38.0	25.3	15.2	12.7	10.1	7.6	2.5	0.0
379.8	77.5°	278.5	116.5	30.4	22.8	12.7	7.6	5.1	2.5	2.5	0.0
111.4	80°	86.1	48.1	22.8	15.2	10.1	7.6	2.5	0.0	0.0	0.0
50.6	82.5°	35.4	22.8	10.1	10.1	7.6	2.5	0.0	0.0	0.0	0.0
22.8	85°	17.7	12.7	7.6	5.1	5.1	2.5	0.0	0.0	0.0	0.0
12.7	87.5°	12.7	5.1	2.5	2.5	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°
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