

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: P575007

Luminaire Tested: **EPH-VN-07-730-U-SL3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575007  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-730-U-SL3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

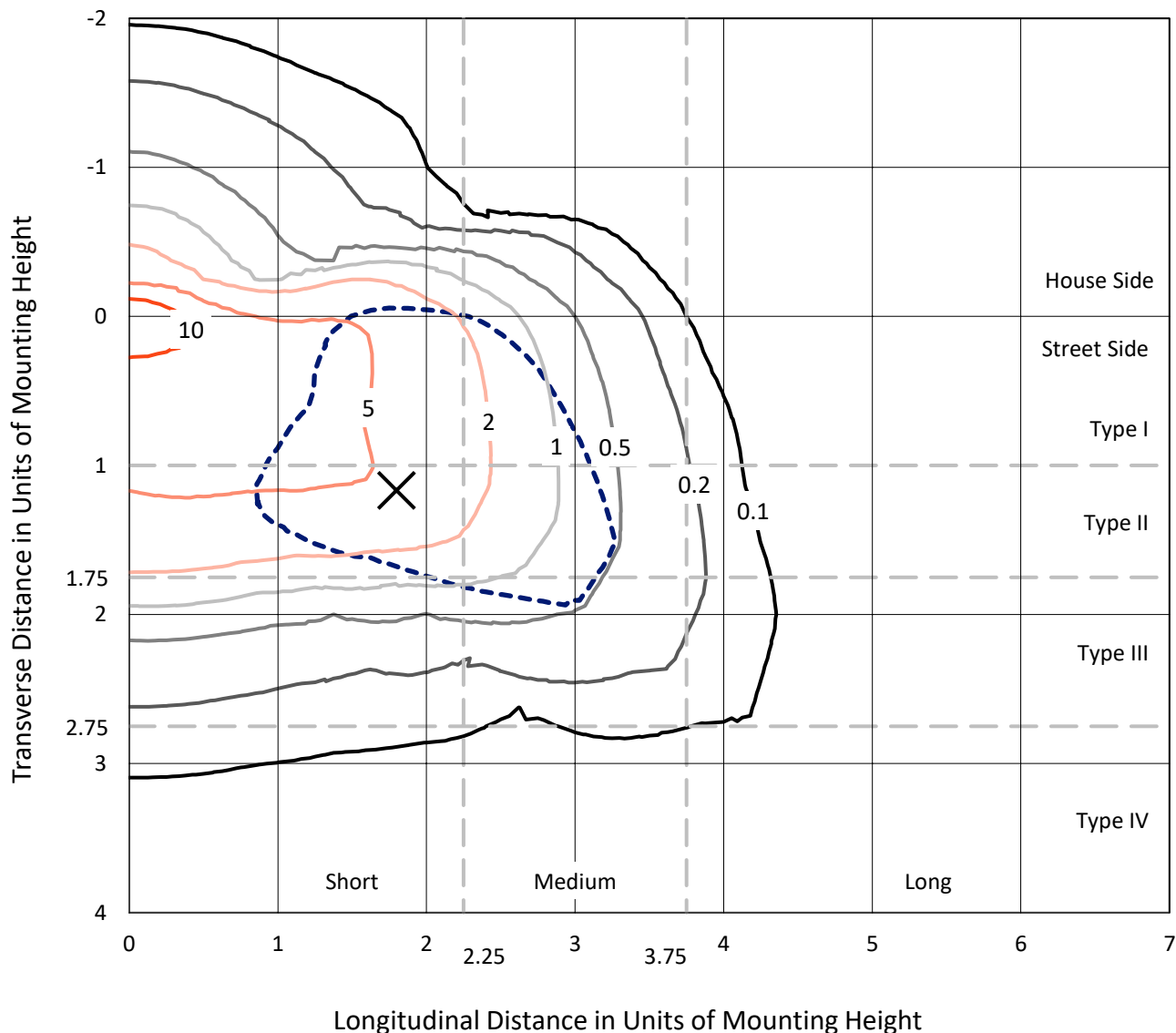
Lumens per Lamp: N/A  
Luminaire Lumens: 50722.3 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7  
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

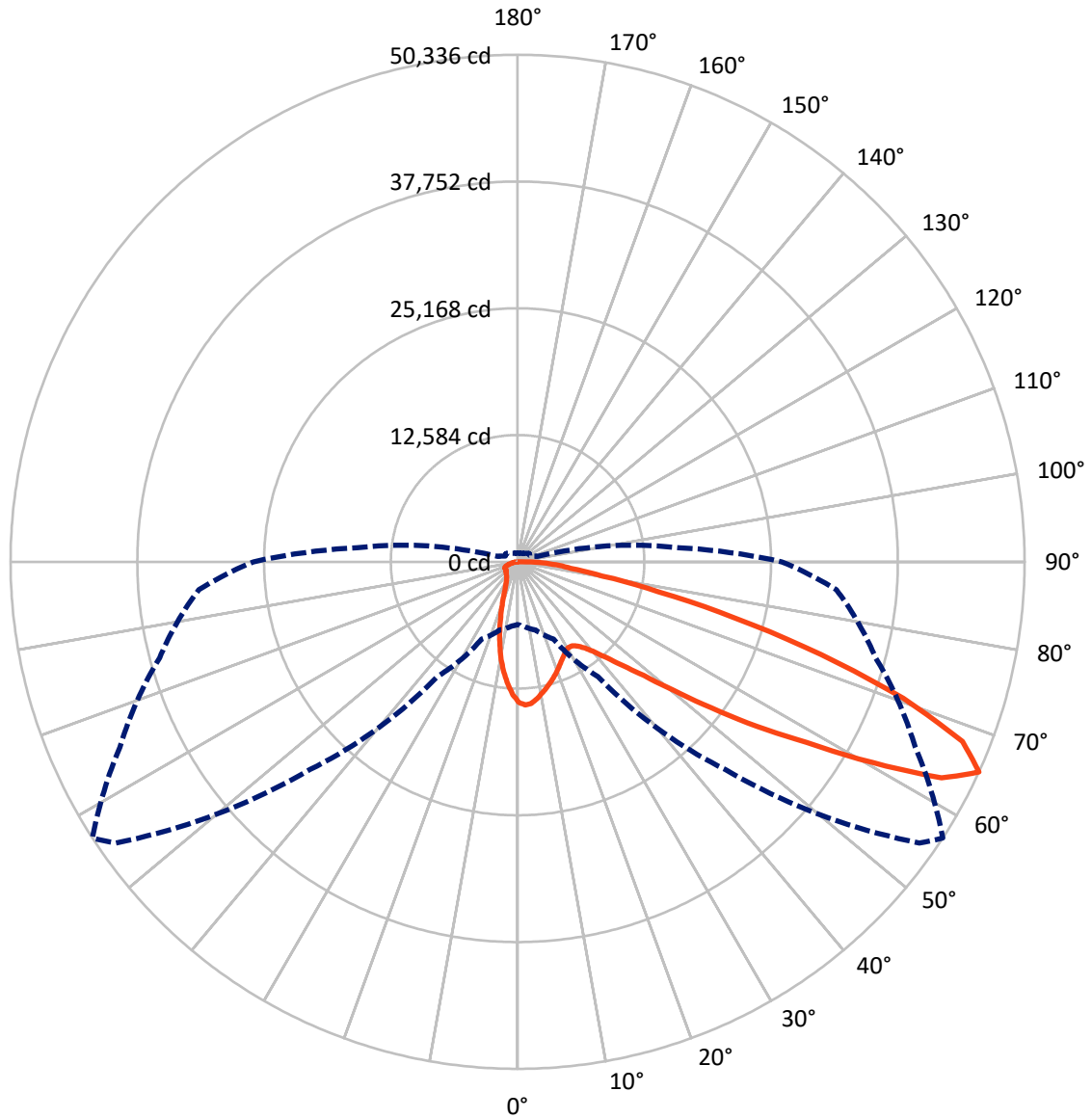
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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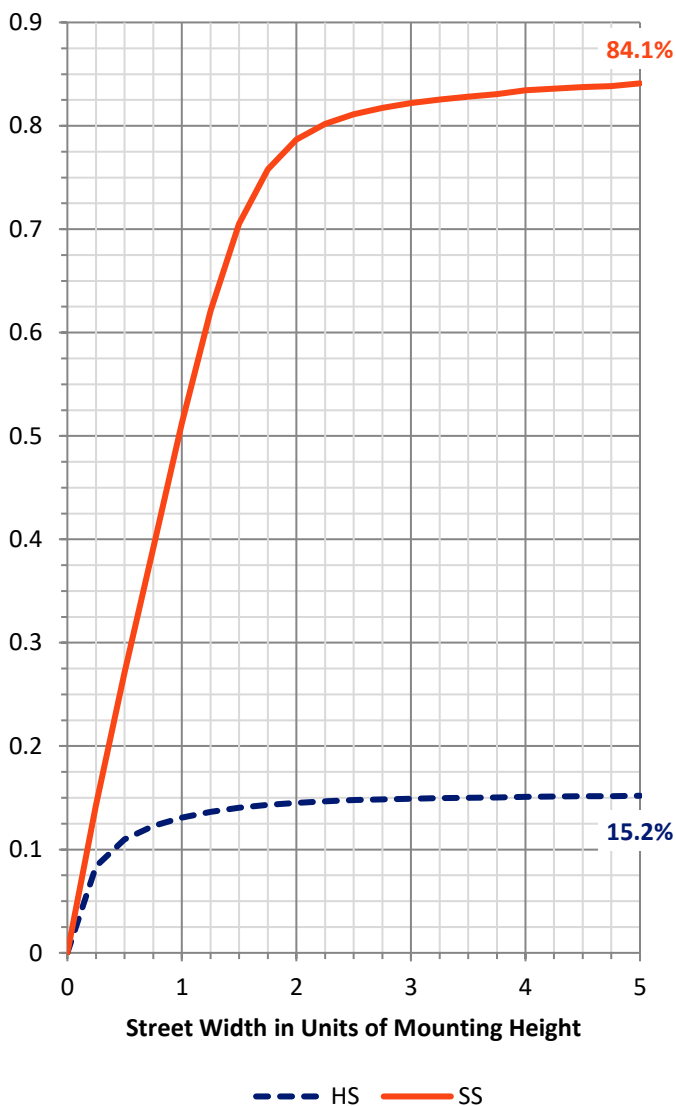
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7778.7	0.0	7778.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	42943.6	0.0	42943.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	50722.3	0.0	50722.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1168.0	2.3
10°-20°	2513.8	5.0
20°-30°	3250.1	6.4
30°-40°	4373.6	8.6
40°-50°	6973.9	13.7
50°-60°	12317.5	24.3
60°-70°	13550.9	26.7
70°-80°	5668.6	11.2
80°-90°	906.0	1.8
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°	50722.3	100.0
0°-180°	50722.3	100.0

**Coefficient of Utilization**

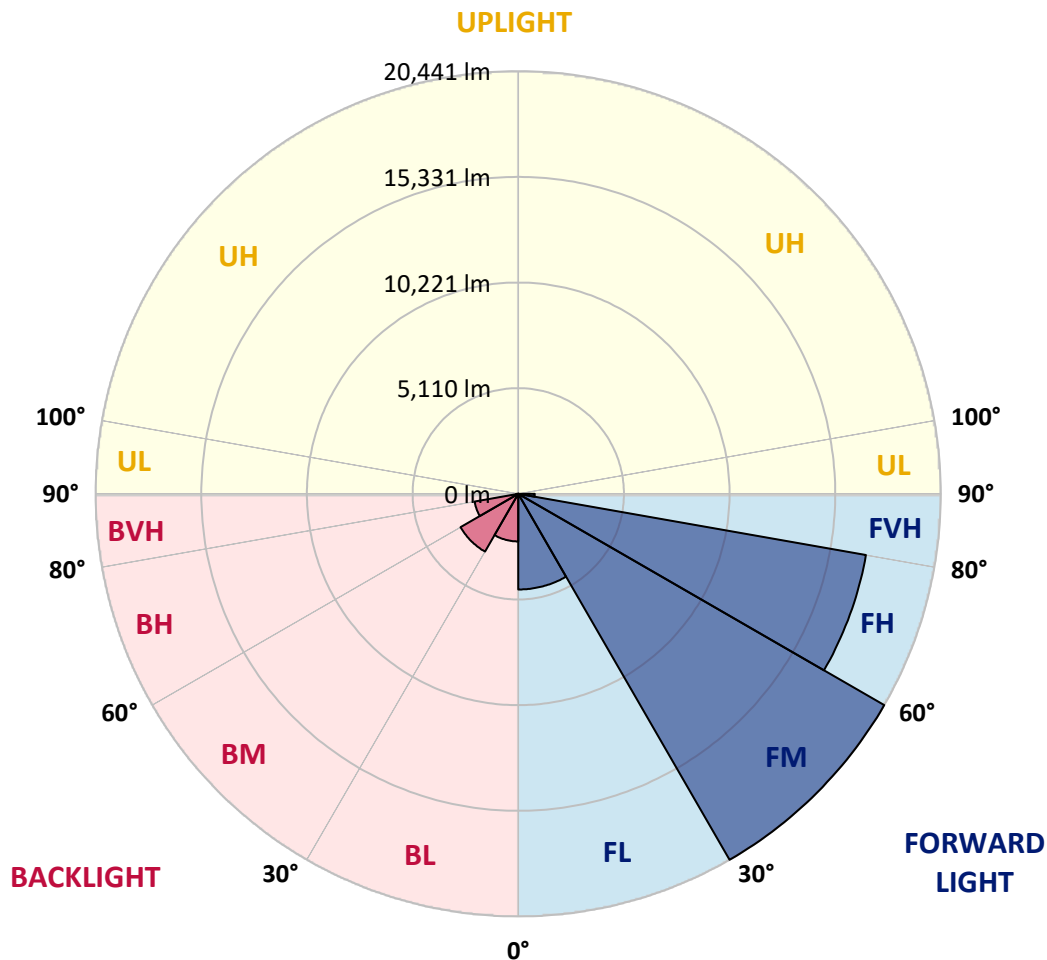


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4628.2	9.1			
FM (30°-60°)	20441.0	40.3			
FH (60°-80°)	17074.7	33.7			G5
FVH (80°-90°)	799.7	1.6			G5
BL (0°-30°)	2303.7	4.5	B3/2500		
BM (30°-60°)	3223.9	6.4	B3/5000		
BH (60°-80°)	2144.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	106.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9
2.5°	14324.6	14347.4	14347.4	14393.1	14239.0	14313.2	14301.8	14233.3	14256.1	14136.3
5°	13919.4	13902.3	13993.6	14005.0	14124.8	14159.1	14187.6	14142.0	14153.4	13890.9
7.5°	12880.7	12875.0	13029.1	13160.4	13411.5	13645.4	13799.5	13753.9	13816.7	13651.2
10°	11648.0	11779.3	11939.1	12070.3	12532.6	12829.3	13228.8	13268.8	13508.5	13468.5
12.5°	10723.5	10780.5	10900.4	11277.0	11699.4	12190.2	12760.9	12812.2	13046.2	13160.4
15°	9964.4	10015.8	10169.9	10449.5	10923.2	11505.3	12230.1	12361.4	12829.3	12869.3
17.5°	9410.9	9450.8	9553.5	9833.2	10221.2	10968.9	11653.7	11887.7	12504.0	12698.1
20°	9194.0	9108.4	9165.5	9342.4	9730.4	10306.9	11191.4	11396.9	12184.5	12566.8
22.5°	9097.0	9022.8	9057.0	9045.6	9353.8	9764.7	10694.9	10911.8	11882.0	12412.7
25°	9171.2	9171.2	9136.9	9108.4	9142.6	9410.9	10158.5	10495.2	11476.8	12281.5
27.5°	9570.6	9416.6	9433.7	9313.8	9279.6	9279.6	9918.8	10118.5	11345.5	12207.3
30°	9827.5	9901.7	9907.4	9730.4	9553.5	9233.9	9696.2	9890.2	11237.1	12298.6
32.5°	10483.8	10449.5	10352.5	10318.3	10055.7	9696.2	9804.6	9935.9	11174.3	12504.0
35°	11140.1	11123.0	11128.7	11111.5	10837.6	10306.9	10095.7	10272.6	11288.5	12863.6
37.5°	11819.2	11864.9	12058.9	12058.9	11767.8	11191.4	10911.8	10860.4	11705.1	13451.4
40°	12498.3	12612.5	12857.9	13246.0	12835.1	12298.6	11847.7	11767.8	12207.3	14239.0
42.5°	13148.9	13337.3	13822.4	14398.8	14261.8	13725.3	13126.1	13034.8	13240.3	15408.9
45°	13982.2	14142.0	14906.7	15791.3	15979.6	15505.9	14804.0	14729.8	14718.4	17121.0
47.5°	15249.1	15420.3	16185.1	17075.4	17657.5	17731.7	16944.1	16864.2	16590.3	19432.4
50°	16835.7	17115.3	17760.2	18798.9	19643.5	20436.8	20214.2	19980.2	19443.8	22120.4
52.5°	17994.2	18336.6	19209.8	20539.5	22029.0	23290.3	24089.3	24089.3	22856.6	25070.9
55°	18302.4	18507.8	19609.3	21532.5	24083.6	27273.8	28945.9	28820.4	26919.9	28175.5
57.5°	17075.4	17343.6	18679.0	20693.6	25162.2	31000.5	33768.4	33796.9	31360.0	31782.3
60°	13696.8	13782.4	15357.6	18051.3	24123.5	34002.3	40354.2	40462.7	36410.7	34995.4
62.5°	9467.9	9741.9	10928.9	13291.6	19985.9	33665.6	46706.1	47242.6	40457.0	36690.3
65°	6232.0	6397.6	7031.0	8469.2	13913.7	29179.9	48680.8	50335.8	43550.2	36787.4
67.5°	4519.9	4548.5	4736.8	5478.7	8360.8	20984.7	45307.9	47642.1	44708.7	35977.0
70°	3652.5	3675.3	3743.8	4217.5	5398.8	13131.8	36952.9	40611.1	41233.1	32136.1
72.5°	2967.6	2996.2	3081.8	3526.9	4451.5	7305.0	27022.7	31479.8	33540.1	23775.4
75°	2334.2	2357.0	2562.4	3001.9	4183.2	5016.5	17925.7	22291.6	22571.2	13896.6
77.5°	1598.0	1637.9	1889.0	2545.3	3937.8	4388.7	11174.3	14278.9	12812.2	5438.8
80°	1015.8	1072.9	1221.3	1929.0	3481.3	4188.9	6951.1	8526.3	5610.0	1860.5
82.5°	599.2	656.3	804.7	1249.8	2733.7	3886.5	4896.6	5336.1	2630.9	953.1
85°	331.0	371.0	485.1	753.3	1603.7	3452.7	3920.7	3829.4	1506.6	507.9
87.5°	108.4	125.6	176.9	302.5	662.0	1626.5	2351.3	2208.6	781.9	234.0
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°
13947.9	0°	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9	13947.9
14016.4	2.5°	13936.5	13919.4	13662.6	13468.5	13137.5	12863.6	12755.2	12606.8	12601.1	12492.6
13776.7	5°	13599.8	13422.9	13029.1	12652.4	12064.6	11670.8	11311.3	11060.2	10957.5	10734.9
13382.9	7.5°	13166.1	12932.1	12327.1	11619.5	10928.9	10312.6	9753.3	9194.0	8880.1	8771.7
12983.4	10°	12715.2	12304.3	11408.3	10615.0	9650.5	8703.2	7824.3	7036.7	6608.7	6306.2
12738.0	12.5°	12355.7	11807.8	10666.4	9479.3	8206.7	6939.7	5918.2	5090.6	4605.6	4377.3
12418.4	15°	11950.5	11225.7	9856.0	8355.1	6768.5	5330.3	4331.6	3681.0	3487.0	3378.5
12087.4	17.5°	11522.4	10683.5	8977.1	7247.9	5364.6	4012.0	3367.1	3104.6	3019.0	2973.3
11773.6	20°	11123.0	10198.4	8075.4	6015.2	4200.4	3218.8	2916.3	2779.3	2773.6	2796.4
11493.9	22.5°	10558.0	9564.9	7185.1	4873.8	3355.7	2802.1	2608.1	2573.9	2608.1	2636.6
11208.6	25°	10238.4	9045.6	6192.1	3869.3	2773.6	2488.3	2425.5	2414.1	2465.4	2499.7
10974.6	27.5°	9907.4	8509.1	5267.6	3098.9	2431.2	2265.7	2254.3	2265.7	2317.0	2368.4
10837.6	30°	9650.5	8081.1	4400.1	2591.0	2168.7	2105.9	2094.5	2105.9	2134.4	2140.1
10877.6	32.5°	9439.4	7573.2	3663.9	2248.6	2008.9	1957.5	1968.9	1963.2	1968.9	1974.6
11014.5	35°	9313.8	7270.7	3059.0	2037.4	1877.6	1837.7	1831.9	1814.8	1820.5	1826.2
11339.8	37.5°	9582.1	7122.3	2579.6	1889.0	1786.3	1752.1	1740.6	1729.2	1712.1	1712.1
12121.7	40°	9987.3	7042.4	2288.5	1792.0	1717.8	1677.9	1643.6	1632.2	1632.2	1637.9
13211.7	42.5°	10791.9	7173.7	2088.8	1717.8	1632.2	1586.5	1552.3	1558.0	1575.1	1592.3
14712.7	45°	11956.2	7573.2	1997.5	1660.7	1580.8	1518.1	1495.2	1489.5	1506.6	1535.2
16909.9	47.5°	13479.9	8195.3	1963.2	1609.4	1546.6	1461.0	1432.5	1449.6	1472.4	1512.4
19694.9	50°	15973.9	9593.5	1991.7	1563.7	1495.2	1432.5	1398.2	1381.1	1398.2	1426.8
23044.9	52.5°	19232.6	12133.1	2100.2	1540.9	1461.0	1409.6	1352.6	1324.0	1341.1	1364.0
26942.8	55°	23130.5	15603.0	2402.6	1512.4	1403.9	1375.4	1312.6	1255.5	1267.0	1267.0
30789.3	57.5°	26566.1	18222.5	2762.2	1472.4	1369.7	1329.7	1249.8	1181.4	1169.9	1175.6
32746.8	60°	28107.0	18918.7	2933.4	1461.0	1369.7	1272.7	1164.2	1095.7	1078.6	1067.2
33055.0	62.5°	27838.8	17714.5	2585.3	1409.6	1403.9	1227.0	1084.3	1010.1	987.3	964.5
31765.2	65°	26218.0	15996.7	2037.4	1341.1	1409.6	1198.5	1004.4	930.2	890.3	861.8
28740.5	67.5°	23256.0	13656.9	1615.1	1289.8	1352.6	1147.1	935.9	850.3	816.1	787.6
23147.6	70°	18193.9	10706.3	1403.9	1221.3	1215.6	1021.6	856.1	781.9	730.5	696.3
15386.1	72.5°	11796.4	6768.5	1204.2	1084.3	1050.1	856.1	741.9	696.3	656.3	627.8
7202.2	75°	5341.8	3144.6	970.2	907.4	856.1	684.8	627.8	604.9	570.7	542.2
2476.8	77.5°	1917.6	1341.1	724.8	713.4	639.2	530.8	507.9	490.8	468.0	439.4
1192.8	80°	1072.9	850.3	542.2	519.3	445.1	393.8	365.2	365.2	353.8	336.7
719.1	82.5°	679.1	553.6	399.5	348.1	291.1	262.5	251.1	245.4	239.7	216.9
450.9	85°	428.0	376.7	262.5	205.5	171.2	131.3	125.6	119.8	108.4	97.0
176.9	87.5°	194.0	216.9	102.7	62.8	45.7	28.5	17.1	5.7	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°
13947.9
12464.1
10683.5
8651.8
6175.0
4274.5
3361.4
2950.5
2790.7
2648.1
2494.0
2362.7
2140.1
1980.3
1820.5
1712.1
1643.6
1580.8
1558.0
1495.2
1438.2
1364.0
1261.2
1181.4
1067.2
970.2
856.1
776.2
696.3
627.8
542.2
439.4
331.0
211.2
97.0
0.0
0.0

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