

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: EPHEBUS

Report Number: P575014

Luminaire Tested: **EPH-VN-08-735-U-SL3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575014  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-735-U-SL3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

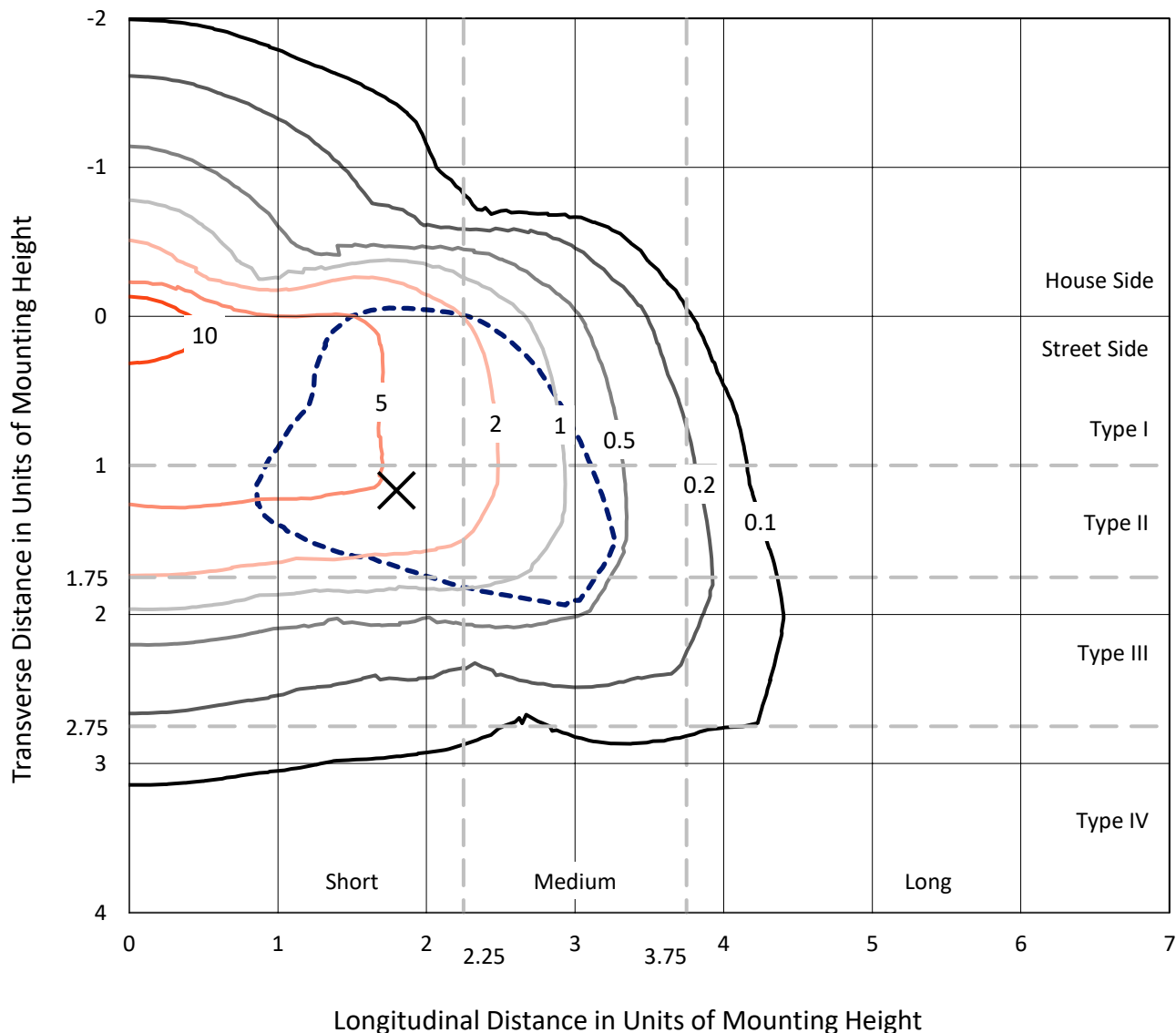
Lumens per Lamp: N/A  
Luminaire Lumens: 54254 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
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

REPORT NUMBER: P575014  
 CATALOG NUMBER: EPH-VN-08-735-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

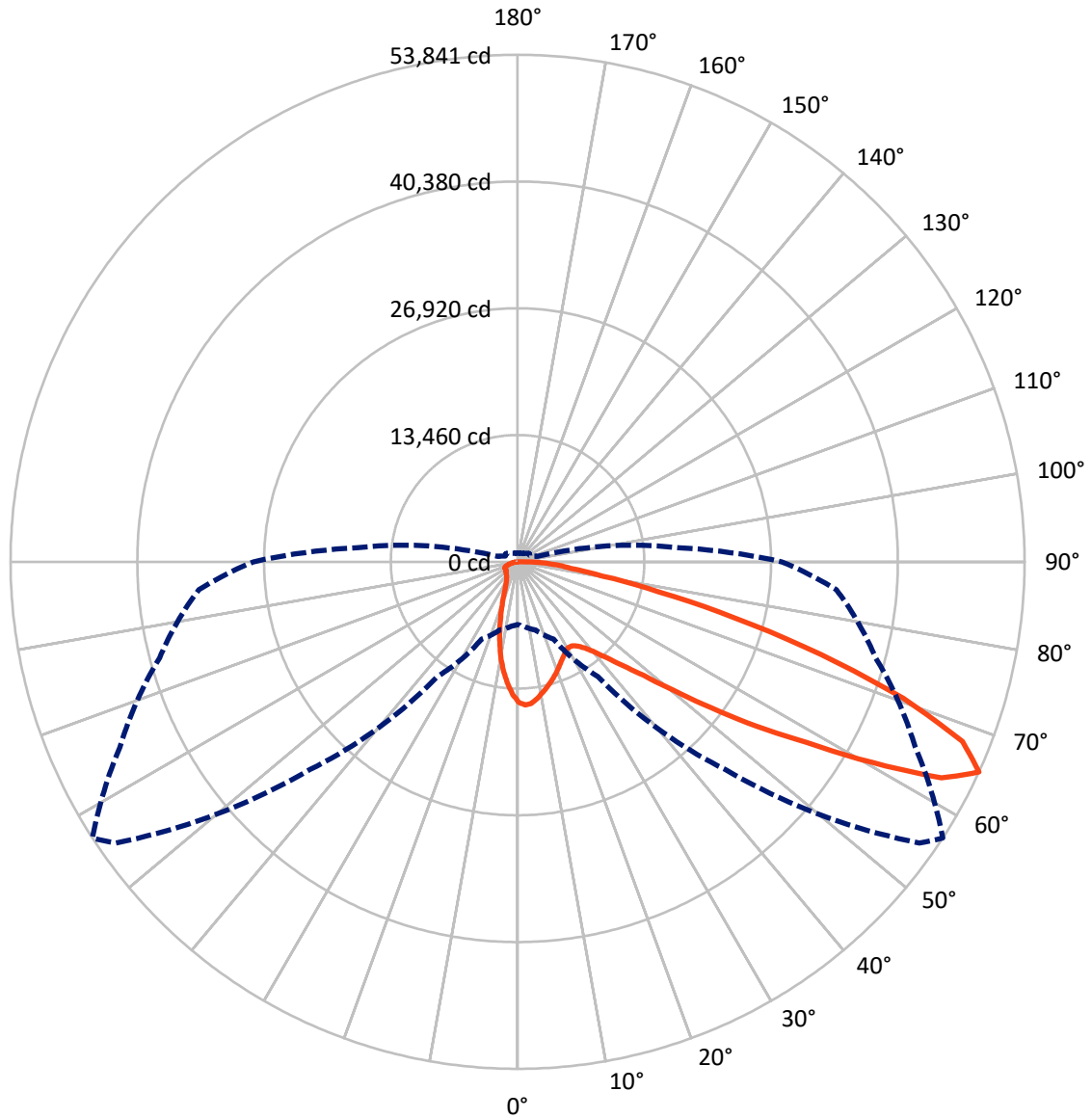
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P575014  
CATALOG NUMBER: EPH-VN-08-735-U-SL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P575014  
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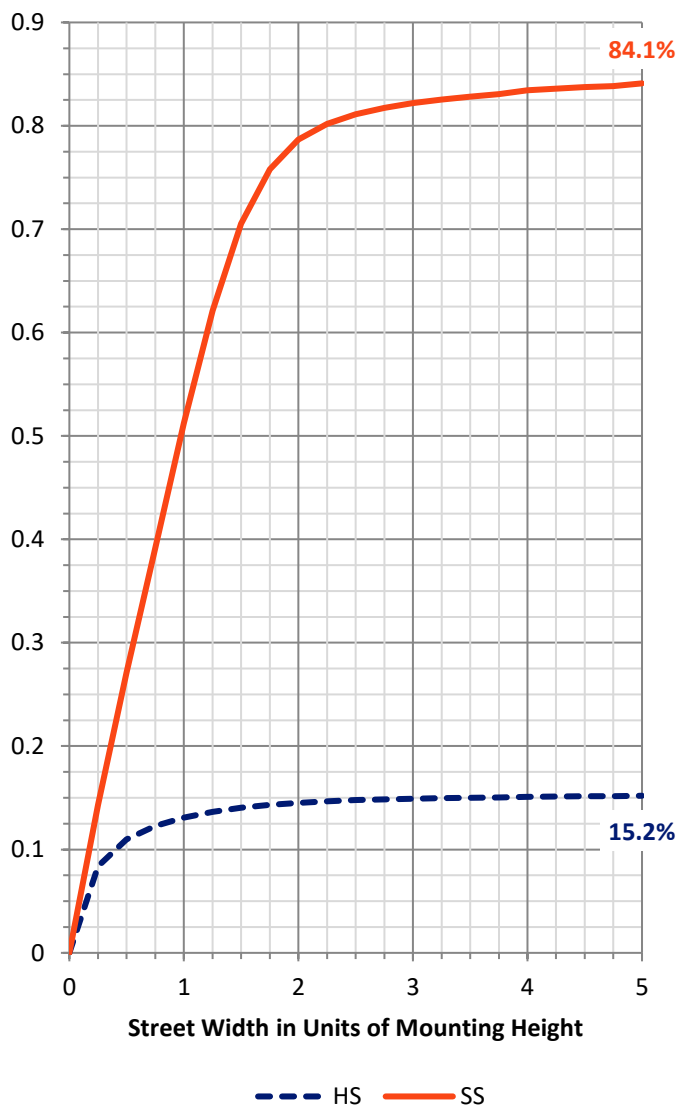
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8320.4	0.0	8320.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	45933.7	0.0	45933.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	54254.0	0.0	54254.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1249.3	2.3
10°-20°	2688.8	5.0
20°-30°	3476.4	6.4
30°-40°	4678.1	8.6
40°-50°	7459.4	13.7
50°-60°	13175.2	24.3
60°-70°	14494.5	26.7
70°-80°	6063.3	11.2
80°-90°	969.0	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°	54254.0	100.0
0°-180°	54254.0	100.0

**Coefficient of Utilization**



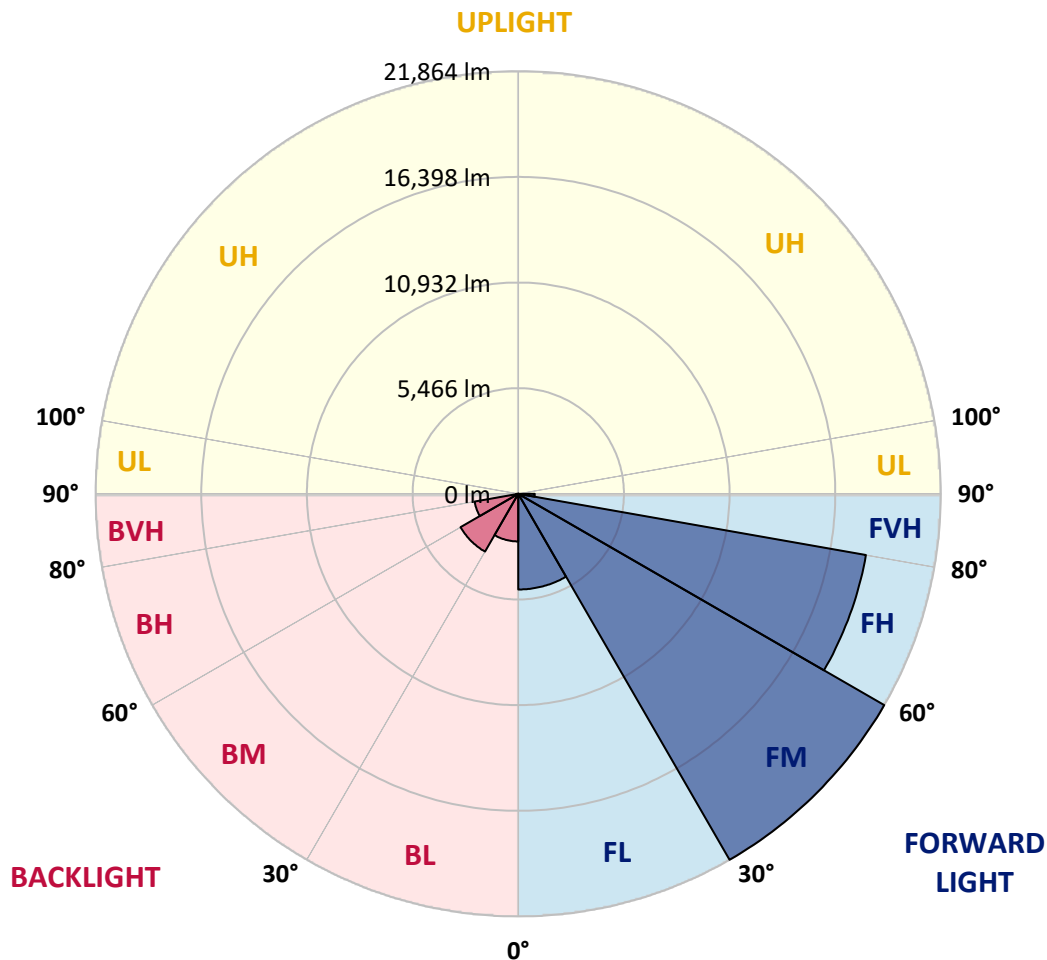
REPORT NUMBER: P575014  
 CATALOG NUMBER: EPH-VN-08-735-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4950.5	9.1			
FM (30°-60°)	21864.3	40.3			
FH (60°-80°)	18263.5	33.7			G5
FVH (80°-90°)	855.3	1.6			G5
BL (0°-30°)	2464.1	4.5	B3/2500		
BM (30°-60°)	3448.4	6.4	B3/5000		
BH (60°-80°)	2294.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	113.7	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





REPORT NUMBER: P575014  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1
2.5°	15322.0	15346.4	15346.4	15395.2	15230.4	15309.8	15297.6	15224.3	15248.7	15120.5
5°	14888.6	14870.3	14967.9	14980.1	15108.3	15145.0	15175.5	15126.6	15138.9	14858.0
7.5°	13777.6	13771.5	13936.3	14076.7	14345.3	14595.6	14760.4	14711.5	14778.7	14601.7
10°	12459.0	12599.4	12770.4	12910.8	13405.2	13722.6	14149.9	14192.7	14449.1	14406.3
12.5°	11470.1	11531.2	11659.4	12062.2	12514.0	13038.9	13649.4	13704.3	13954.6	14076.7
15°	10658.2	10713.2	10878.0	11177.1	11683.8	12306.4	13081.7	13222.1	13722.6	13765.4
17.5°	10066.1	10108.8	10218.7	10517.8	10932.9	11732.6	12465.1	12715.4	13374.7	13582.2
20°	9834.1	9742.6	9803.6	9992.9	10408.0	11024.5	11970.7	12190.4	13032.8	13441.8
22.5°	9730.4	9651.0	9687.6	9675.4	10005.1	10444.6	11439.6	11671.6	12709.3	13277.0
25°	9809.7	9809.7	9773.1	9742.6	9779.2	10066.1	10865.8	11225.9	12275.9	13136.6
27.5°	10237.0	10072.2	10090.5	9962.3	9925.7	9925.7	10609.4	10823.1	12135.5	13057.3
30°	10511.7	10591.1	10597.2	10408.0	10218.7	9876.9	10371.3	10578.9	12019.5	13154.9
32.5°	11213.7	11177.1	11073.3	11036.7	10755.9	10371.3	10487.3	10627.7	11952.4	13374.7
35°	11915.7	11897.4	11903.5	11885.2	11592.2	11024.5	10798.6	10987.9	12074.5	13759.3
37.5°	12642.2	12691.0	12898.5	12898.5	12587.2	11970.7	11671.6	11616.6	12520.1	14388.0
40°	13368.6	13490.7	13753.2	14168.3	13728.7	13154.9	12672.7	12587.2	13057.3	15230.4
42.5°	14064.5	14265.9	14784.8	15401.3	15254.8	14681.0	14040.1	13942.4	14162.2	16481.8
45°	14955.7	15126.6	15944.6	16890.8	17092.3	16585.6	15834.7	15755.4	15743.2	18313.1
47.5°	16310.9	16494.0	17312.0	18264.3	18886.9	18966.3	18123.9	18038.4	17745.4	20785.4
50°	18007.9	18307.0	18996.8	20107.8	21011.3	21859.8	21621.7	21371.4	20797.6	23660.6
52.5°	19247.1	19613.4	20547.3	21969.6	23562.9	24912.0	25766.6	25766.6	24448.0	26816.5
55°	19576.7	19796.5	20974.6	23031.8	25760.5	29172.8	30961.4	30827.1	28794.3	30137.3
57.5°	18264.3	18551.2	19979.6	22134.5	26914.2	33159.0	36119.6	36150.1	33543.5	33995.3
60°	14650.5	14742.1	16426.9	19308.1	25803.2	36369.9	43164.0	43280.0	38945.9	37432.0
62.5°	10127.2	10420.2	11689.9	14217.1	21377.5	36009.7	49958.2	50532.0	43273.9	39245.0
65°	6666.0	6843.0	7520.6	9058.9	14882.5	31211.7	52070.3	53840.6	46582.5	39348.8
67.5°	4834.7	4865.2	5066.6	5860.2	8942.9	22445.8	48462.6	50959.3	47821.7	38482.0
70°	3906.8	3931.2	4004.5	4511.1	5774.7	14046.2	39525.8	43438.7	44104.1	34373.7
72.5°	3174.3	3204.8	3296.4	3772.5	4761.4	7813.6	28904.2	33671.7	35875.4	25430.8
75°	2496.7	2521.1	2740.9	3210.9	4474.5	5365.7	19173.8	23843.7	24142.8	14864.2
77.5°	1709.2	1752.0	2020.5	2722.6	4212.0	4694.3	11952.4	15273.1	13704.3	5817.5
80°	1086.6	1147.6	1306.3	2063.3	3723.7	4480.6	7435.1	9119.9	6000.6	1990.0
82.5°	641.0	702.0	860.7	1336.9	2924.0	4157.1	5237.6	5707.6	2814.1	1019.4
85°	354.1	396.8	518.9	805.8	1715.3	3693.1	4193.7	4096.0	1611.6	543.3
87.5°	116.0	134.3	189.2	323.5	708.1	1739.7	2515.0	2362.4	836.3	250.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575014

CATALOG NUMBER: EPH-VN-08-735-U-SL3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
14919.1	0°	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1	14919.1
14992.3	2.5°	14906.9	14888.6	14613.9	14406.3	14052.3	13759.3	13643.3	13484.6	13478.5	13362.5
14736.0	5°	14546.7	14357.5	13936.3	13533.4	12904.6	12483.4	12098.9	11830.3	11720.4	11482.3
14314.8	7.5°	14082.8	13832.5	13185.5	12428.5	11689.9	11030.6	10432.4	9834.1	9498.4	9382.4
13887.5	10°	13600.5	13161.0	12202.6	11354.1	10322.5	9309.2	8369.1	7526.7	7068.9	6745.3
13625.0	12.5°	13216.0	12630.0	11409.1	10139.4	8778.1	7422.9	6330.2	5445.1	4926.2	4682.1
13283.1	15°	12782.6	12007.3	10542.3	8936.8	7239.8	5701.5	4633.2	3937.3	3729.8	3613.8
12929.1	17.5°	12324.7	11427.4	9602.2	7752.6	5738.1	4291.4	3601.6	3320.8	3229.2	3180.4
12593.3	20°	11897.4	10908.5	8637.7	6434.0	4492.8	3442.9	3119.3	2972.8	2966.7	2991.1
12294.2	22.5°	11293.1	10230.9	7685.4	5213.1	3589.4	2997.2	2789.7	2753.1	2789.7	2820.2
11989.0	25°	10951.2	9675.4	6623.2	4138.8	2966.7	2661.5	2594.4	2582.2	2637.1	2673.7
11738.7	27.5°	10597.2	9101.6	5634.3	3314.7	2600.5	2423.4	2411.2	2423.4	2478.4	2533.3
11592.2	30°	10322.5	8643.8	4706.5	2771.4	2319.7	2252.5	2240.3	2252.5	2283.0	2289.1
11634.9	32.5°	10096.6	8100.5	3919.0	2405.1	2148.7	2093.8	2106.0	2099.9	2106.0	2112.1
11781.4	35°	9962.3	7777.0	3271.9	2179.3	2008.3	1965.6	1959.5	1941.2	1947.3	1953.4
12129.4	37.5°	10249.2	7618.3	2759.2	2020.5	1910.7	1874.0	1861.8	1849.6	1831.3	1831.3
12965.7	40°	10682.7	7532.8	2447.9	1916.8	1837.4	1794.7	1758.1	1745.9	1745.9	1752.0
14131.6	42.5°	11543.4	7673.2	2234.2	1837.4	1745.9	1697.0	1660.4	1666.5	1684.8	1703.1
15737.1	45°	12788.7	8100.5	2136.5	1776.4	1690.9	1623.8	1599.3	1593.2	1611.6	1642.1
18087.3	47.5°	14418.5	8765.9	2099.9	1721.4	1654.3	1562.7	1532.2	1550.5	1574.9	1617.7
21066.2	50°	17086.1	10261.5	2130.4	1672.6	1599.3	1532.2	1495.6	1477.3	1495.6	1526.1
24649.5	52.5°	20571.7	12977.9	2246.4	1648.2	1562.7	1507.8	1446.7	1416.2	1434.5	1458.9
28818.8	55°	24741.0	16689.4	2569.9	1617.7	1501.7	1471.2	1404.0	1343.0	1355.2	1355.2
32933.1	57.5°	28415.9	19491.3	2954.5	1574.9	1465.1	1422.3	1336.9	1263.6	1251.4	1257.5
35026.9	60°	30064.0	20236.0	3137.6	1562.7	1465.1	1361.3	1245.3	1172.0	1153.7	1141.5
35356.5	62.5°	29777.1	18948.0	2765.3	1507.8	1501.7	1312.4	1159.8	1080.5	1056.1	1031.6
33977.0	65°	28043.5	17110.6	2179.3	1434.5	1507.8	1281.9	1074.4	995.0	952.3	921.8
30741.6	67.5°	24875.3	14607.8	1727.5	1379.6	1446.7	1227.0	1001.1	909.6	872.9	842.4
24759.3	70°	19460.7	11451.8	1501.7	1306.3	1300.2	1092.7	915.7	836.3	781.4	744.7
16457.4	72.5°	12617.7	7239.8	1288.0	1159.8	1123.2	915.7	793.6	744.7	702.0	671.5
7703.7	75°	5713.7	3363.5	1037.7	970.6	915.7	732.5	671.5	647.1	610.4	579.9
2649.3	77.5°	2051.1	1434.5	775.3	763.0	683.7	567.7	543.3	525.0	500.6	470.0
1275.8	80°	1147.6	909.6	579.9	555.5	476.1	421.2	390.7	390.7	378.5	360.2
769.2	82.5°	726.4	592.1	427.3	372.4	311.3	280.8	268.6	262.5	256.4	232.0
482.2	85°	457.8	402.9	280.8	219.8	183.1	140.4	134.3	128.2	116.0	103.8
189.2	87.5°	207.5	232.0	109.9	67.1	48.8	30.5	18.3	6.1	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°
14919.1
13332.0
11427.4
9254.2
6604.9
4572.2
3595.5
3156.0
2985.0
2832.4
2667.6
2527.2
2289.1
2118.2
1947.3
1831.3
1758.1
1690.9
1666.5
1599.3
1538.3
1458.9
1349.1
1263.6
1141.5
1037.7
915.7
830.2
744.7
671.5
579.9
470.0
354.1
225.9
103.8
0.0
0.0

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