

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: P575012

Luminaire Tested: **EPH-VN-06-735-U-SL3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575012  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-735-U-SL3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

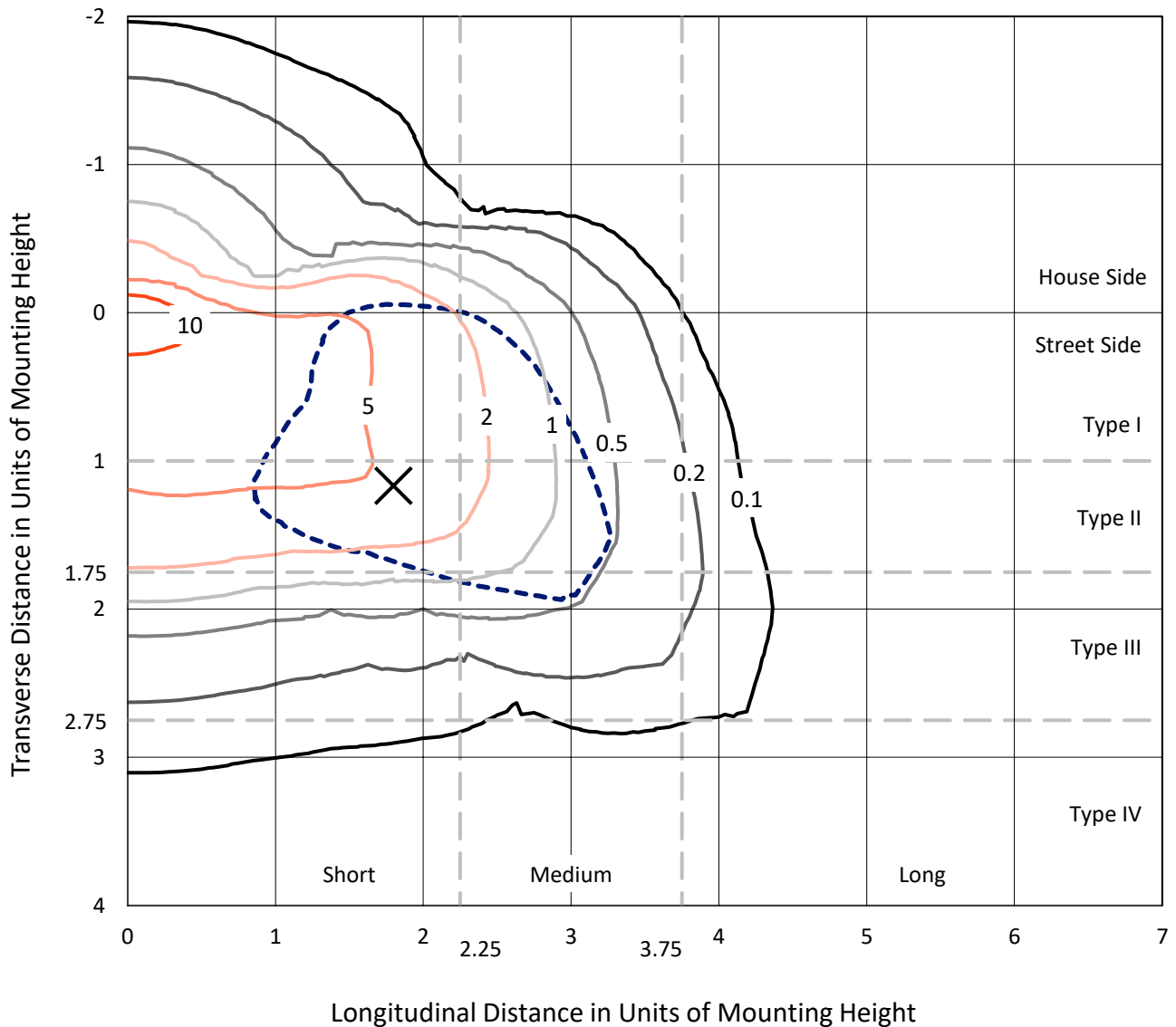
Lumens per Lamp: N/A  
Luminaire Lumens: 51495.3 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2  
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

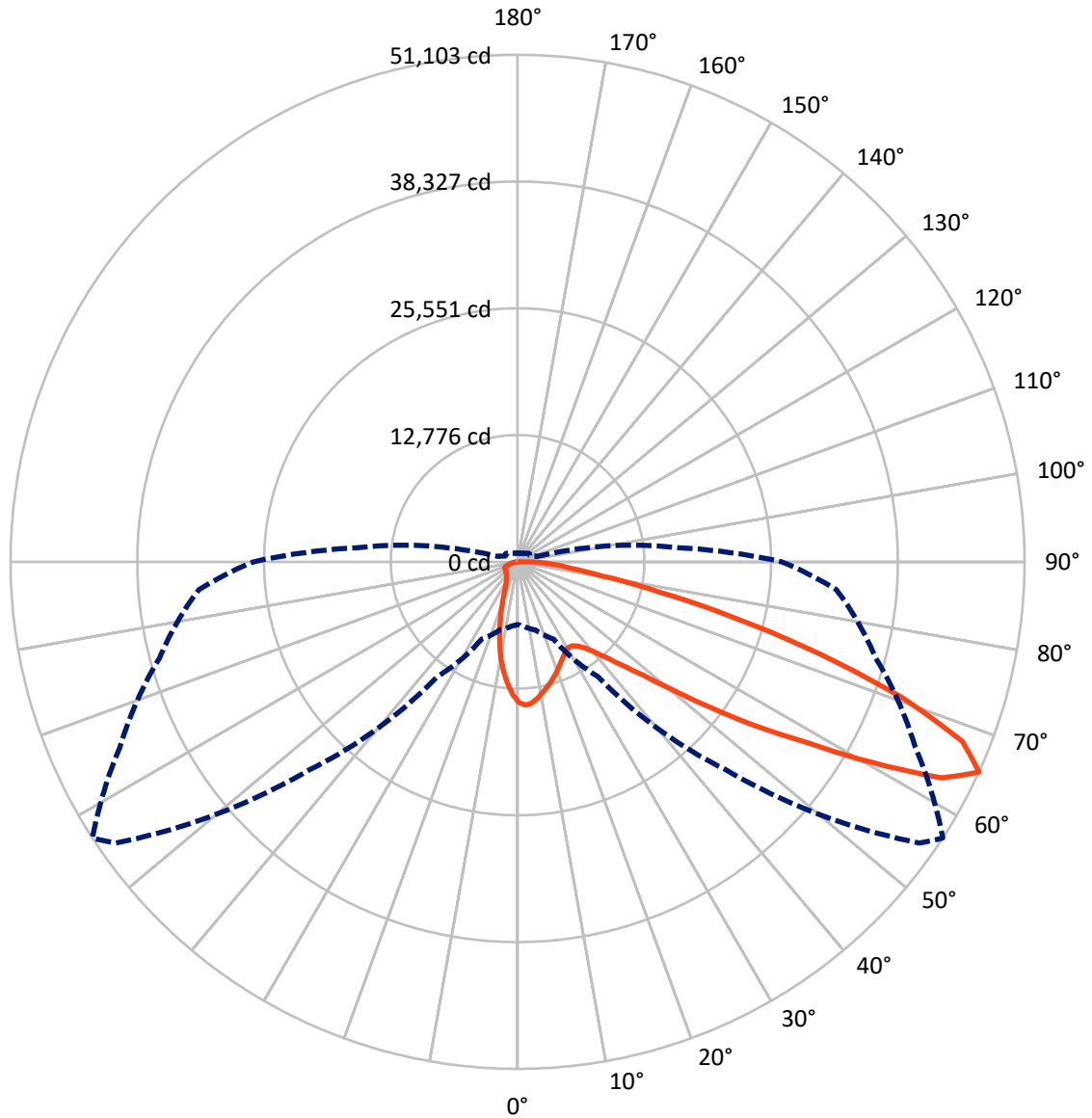
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.7 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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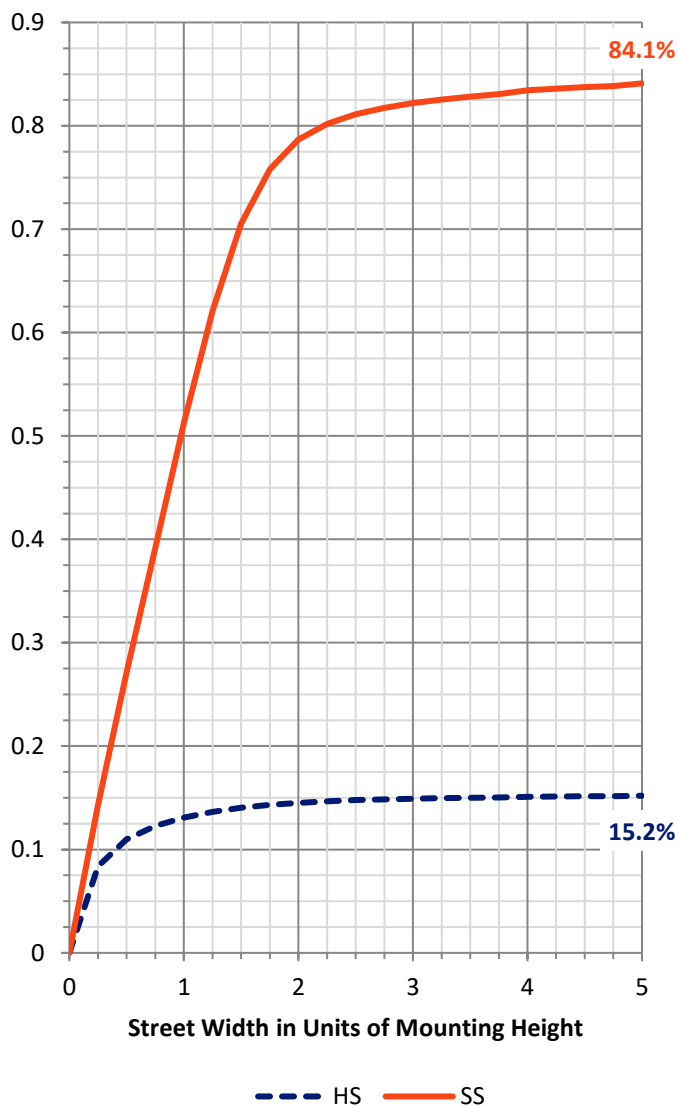
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7897.3	0.0	7897.3
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	43598.0	0.0	43598.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	51495.3	0.0	51495.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1185.8	2.3
10°-20°	2552.1	5.0
20°-30°	3299.6	6.4
30°-40°	4440.2	8.6
40°-50°	7080.1	13.7
50°-60°	12505.2	24.3
60°-70°	13757.4	26.7
70°-80°	5755.0	11.2
80°-90°	919.8	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°	51495.3	100.0
0°-180°	51495.3	100.0

**Coefficient of Utilization**



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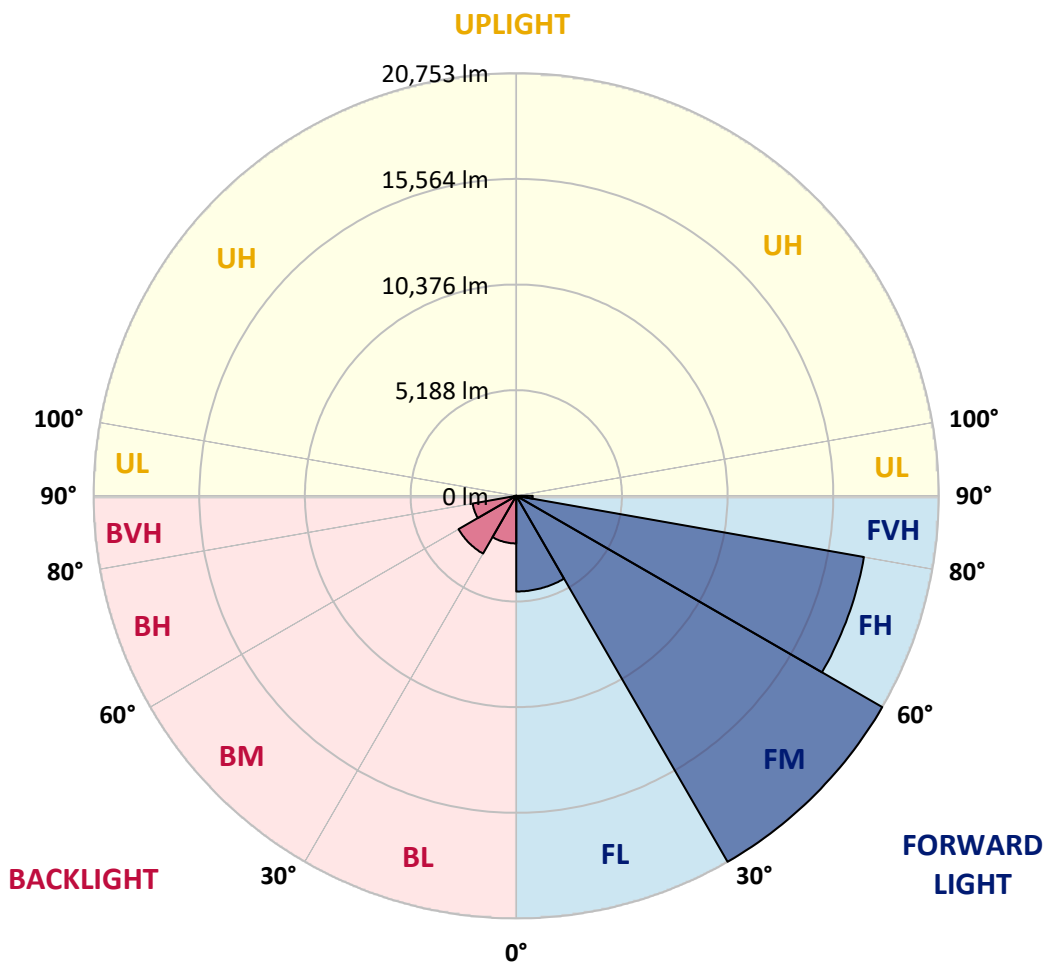
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4698.8	9.1			
FM (30°-60°)	20752.5	40.3			
FH (60°-80°)	17334.9	33.7			G5
FVH (80°-90°)	811.9	1.6			G5
BL (0°-30°)	2338.8	4.5	B3/2500		
BM (30°-60°)	3273.1	6.4	B3/5000		
BH (60°-80°)	2177.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	107.9	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°	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5
2.5°	14542.9	14566.1	14566.1	14612.4	14456.0	14531.3	14519.7	14450.2	14473.4	14351.7
5°	14131.5	14114.1	14206.8	14218.4	14340.1	14374.9	14403.8	14357.5	14369.1	14102.5
7.5°	13077.0	13071.2	13227.7	13360.9	13615.8	13853.4	14009.8	13963.5	14027.2	13859.2
10°	11825.5	11958.8	12121.0	12254.3	12723.6	13024.9	13430.4	13471.0	13714.3	13673.8
12.5°	10886.9	10944.8	11066.5	11448.9	11877.7	12375.9	12955.3	13007.5	13245.0	13360.9
15°	10116.3	10168.4	10324.9	10608.8	11089.7	11680.7	12416.5	12549.8	13024.9	13065.4
17.5°	9554.3	9594.8	9699.1	9983.0	10377.0	11136.0	11831.3	12068.9	12694.6	12891.6
20°	9334.1	9247.2	9305.1	9484.7	9878.7	10463.9	11362.0	11570.6	12370.1	12758.3
22.5°	9235.6	9160.3	9195.0	9183.5	9496.3	9913.5	10857.9	11078.1	12063.1	12601.9
25°	9310.9	9310.9	9276.2	9247.2	9282.0	9554.3	10313.3	10655.1	11651.7	12468.6
27.5°	9716.5	9560.1	9577.4	9455.8	9421.0	9421.0	10069.9	10272.7	11518.4	12393.3
30°	9977.2	10052.6	10058.3	9878.7	9699.1	9374.7	9844.0	10041.0	11408.3	12486.0
32.5°	10643.5	10608.8	10510.3	10475.5	10209.0	9844.0	9954.1	10087.3	11344.6	12694.6
35°	11309.8	11292.5	11298.3	11280.9	11002.8	10463.9	10249.5	10429.2	11460.5	13059.6
37.5°	11999.3	12045.7	12242.7	12242.7	11947.2	11362.0	11078.1	11025.9	11883.4	13656.4
40°	12688.8	12804.7	13053.8	13447.8	13030.7	12486.0	12028.3	11947.2	12393.3	14456.0
42.5°	13349.3	13540.5	14033.0	14618.2	14479.2	13934.5	13326.1	13233.4	13442.0	15643.7
45°	14195.2	14357.5	15133.9	16031.9	16223.1	15742.2	15029.6	14954.3	14942.7	17381.9
47.5°	15481.5	15655.3	16431.7	17335.6	17926.6	18001.9	17202.3	17121.2	16843.1	19728.5
50°	17092.2	17376.1	18030.9	19085.4	19942.9	20748.2	20522.3	20284.7	19740.1	22457.5
52.5°	18268.4	18616.1	19502.5	20852.5	22364.8	23645.2	24456.4	24456.4	23204.9	25452.9
55°	18581.3	18789.9	19908.1	21860.7	24450.6	27689.4	29387.1	29259.6	27330.2	28604.9
57.5°	17335.6	17607.9	18963.7	21009.0	25545.6	31472.9	34283.0	34311.9	31837.9	32266.7
60°	13905.5	13992.5	15591.6	18326.4	24491.1	34520.5	40969.2	41079.3	36965.6	35528.7
62.5°	9612.2	9890.3	11095.5	13494.2	20290.5	34178.7	47417.9	47962.5	41073.5	37249.5
65°	6327.0	6495.0	7138.2	8598.3	14125.7	29624.6	49422.6	51102.9	44213.8	37348.0
67.5°	4588.8	4617.8	4809.0	5562.2	8488.2	21304.5	45998.4	48368.1	45390.0	36525.2
70°	3708.1	3731.3	3800.8	4281.7	5481.1	13331.9	37516.0	41229.9	41861.5	32625.9
72.5°	3012.9	3041.8	3128.7	3580.7	4519.3	7416.3	27434.5	31959.6	34051.2	24137.7
75°	2369.7	2392.9	2601.5	3047.6	4247.0	5092.9	18198.9	22631.3	22915.2	14108.3
77.5°	1622.3	1662.9	1917.8	2584.1	3997.8	4455.6	11344.6	14496.5	13007.5	5521.7
80°	1031.3	1089.3	1239.9	1958.4	3534.3	4252.8	7057.1	8656.2	5695.5	1888.8
82.5°	608.4	666.3	817.0	1268.9	2775.3	3945.7	4971.2	5417.4	2671.0	967.6
85°	336.1	376.6	492.5	764.8	1628.1	3505.4	3980.5	3887.8	1529.6	515.7
87.5°	110.1	127.5	179.6	307.1	672.1	1651.3	2387.1	2242.3	793.8	237.6
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°
14160.5	0°	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5	14160.5
14230.0	2.5°	14148.9	14131.5	13870.8	13673.8	13337.7	13059.6	12949.5	12798.9	12793.1	12683.0
13986.7	5°	13807.0	13627.4	13227.7	12845.2	12248.5	11848.7	11483.7	11228.7	11124.4	10898.5
13586.9	7.5°	13366.7	13129.2	12515.0	11796.5	11095.5	10469.7	9901.9	9334.1	9015.4	8905.3
13181.3	10°	12909.0	12491.8	11582.2	10776.8	9797.6	8835.8	7943.5	7144.0	6709.4	6402.3
12932.2	12.5°	12544.0	11987.7	10828.9	9623.8	8331.7	7045.5	6008.4	5168.2	4675.7	4444.0
12607.7	15°	12132.6	11396.8	10006.2	8482.4	6871.7	5411.6	4397.6	3737.1	3540.1	3430.0
12271.6	17.5°	11698.0	10846.3	9113.9	7358.4	5446.3	4073.2	3418.4	3151.9	3065.0	3018.7
11953.0	20°	11292.5	10353.8	8198.5	6106.9	4264.4	3267.8	2960.7	2821.7	2815.9	2839.0
11669.1	22.5°	10718.9	9710.7	7294.6	4948.1	3406.9	2844.8	2647.8	2613.1	2647.8	2676.8
11379.4	25°	10394.4	9183.5	6286.5	3928.3	2815.9	2526.2	2462.4	2450.9	2503.0	2537.8
11141.8	27.5°	10058.3	8638.8	5347.8	3146.1	2468.2	2300.2	2288.6	2300.2	2352.4	2404.5
11002.8	30°	9797.6	8204.3	4467.2	2630.5	2201.7	2138.0	2126.4	2138.0	2166.9	2172.7
11043.3	32.5°	9583.2	7688.6	3719.7	2282.8	2039.5	1987.3	1998.9	1993.1	1998.9	2004.7
11182.4	35°	9455.8	7381.5	3105.6	2068.5	1906.2	1865.7	1859.9	1842.5	1848.3	1854.1
11512.6	37.5°	9728.1	7230.9	2618.9	1917.8	1813.5	1778.8	1767.2	1755.6	1738.2	1738.2
12306.4	40°	10139.5	7149.8	2323.4	1819.3	1744.0	1703.4	1668.7	1657.1	1657.1	1662.9
13413.1	42.5°	10956.4	7283.0	2120.6	1744.0	1657.1	1610.7	1576.0	1581.8	1599.1	1616.5
14936.9	45°	12138.4	7688.6	2027.9	1686.0	1604.9	1541.2	1518.0	1512.2	1529.6	1558.6
17167.6	47.5°	13685.4	8320.2	1993.1	1633.9	1570.2	1483.3	1454.3	1471.7	1494.8	1535.4
19995.0	50°	16217.3	9739.7	2022.1	1587.5	1518.0	1454.3	1419.5	1402.1	1419.5	1448.5
23396.1	52.5°	19525.7	12318.0	2132.2	1564.4	1483.3	1431.1	1373.2	1344.2	1361.6	1384.8
27353.4	55°	23483.0	15840.7	2439.3	1535.4	1425.3	1396.3	1332.6	1274.7	1286.3	1286.3
31258.5	57.5°	26971.0	18500.2	2804.3	1494.8	1390.6	1350.0	1268.9	1199.4	1187.8	1193.6
33245.8	60°	28535.3	19207.0	2978.1	1483.3	1390.6	1292.1	1182.0	1112.4	1095.1	1083.5
33558.7	62.5°	28263.0	17984.5	2624.7	1431.1	1425.3	1245.7	1100.9	1025.5	1002.4	979.2
32249.3	65°	26617.5	16240.5	2068.5	1361.6	1431.1	1216.7	1019.7	944.4	903.9	874.9
29178.5	67.5°	23610.5	13865.0	1639.7	1309.4	1373.2	1164.6	950.2	863.3	828.5	799.6
23500.4	70°	18471.2	10869.5	1425.3	1239.9	1234.1	1037.1	869.1	793.8	741.6	706.9
15620.6	72.5°	11976.2	6871.7	1222.5	1100.9	1066.1	869.1	753.2	706.9	666.3	637.3
7312.0	75°	5423.2	3192.5	985.0	921.2	869.1	695.3	637.3	614.2	579.4	550.4
2514.6	77.5°	1946.8	1361.6	735.8	724.2	648.9	538.8	515.7	498.3	475.1	446.1
1210.9	80°	1089.3	863.3	550.4	527.3	451.9	399.8	370.8	370.8	359.2	341.8
730.0	82.5°	689.5	562.0	405.6	353.4	295.5	266.5	254.9	249.1	243.3	220.2
457.7	85°	434.5	382.4	266.5	208.6	173.8	133.3	127.5	121.7	110.1	98.5
179.6	87.5°	197.0	220.2	104.3	63.7	46.4	29.0	17.4	5.8	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°
14160.5
12654.0
10846.3
8783.7
6269.1
4339.7
3412.7
2995.5
2833.3
2688.4
2532.0
2398.7
2172.7
2010.5
1848.3
1738.2
1668.7
1604.9
1581.8
1518.0
1460.1
1384.8
1280.5
1199.4
1083.5
985.0
869.1
788.0
706.9
637.3
550.4
446.1
336.1
214.4
98.5
0.0
0.0

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