

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: P575004

Luminaire Tested: **EPH-VN-04-730-U-SL3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575004  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-730-U-SL3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

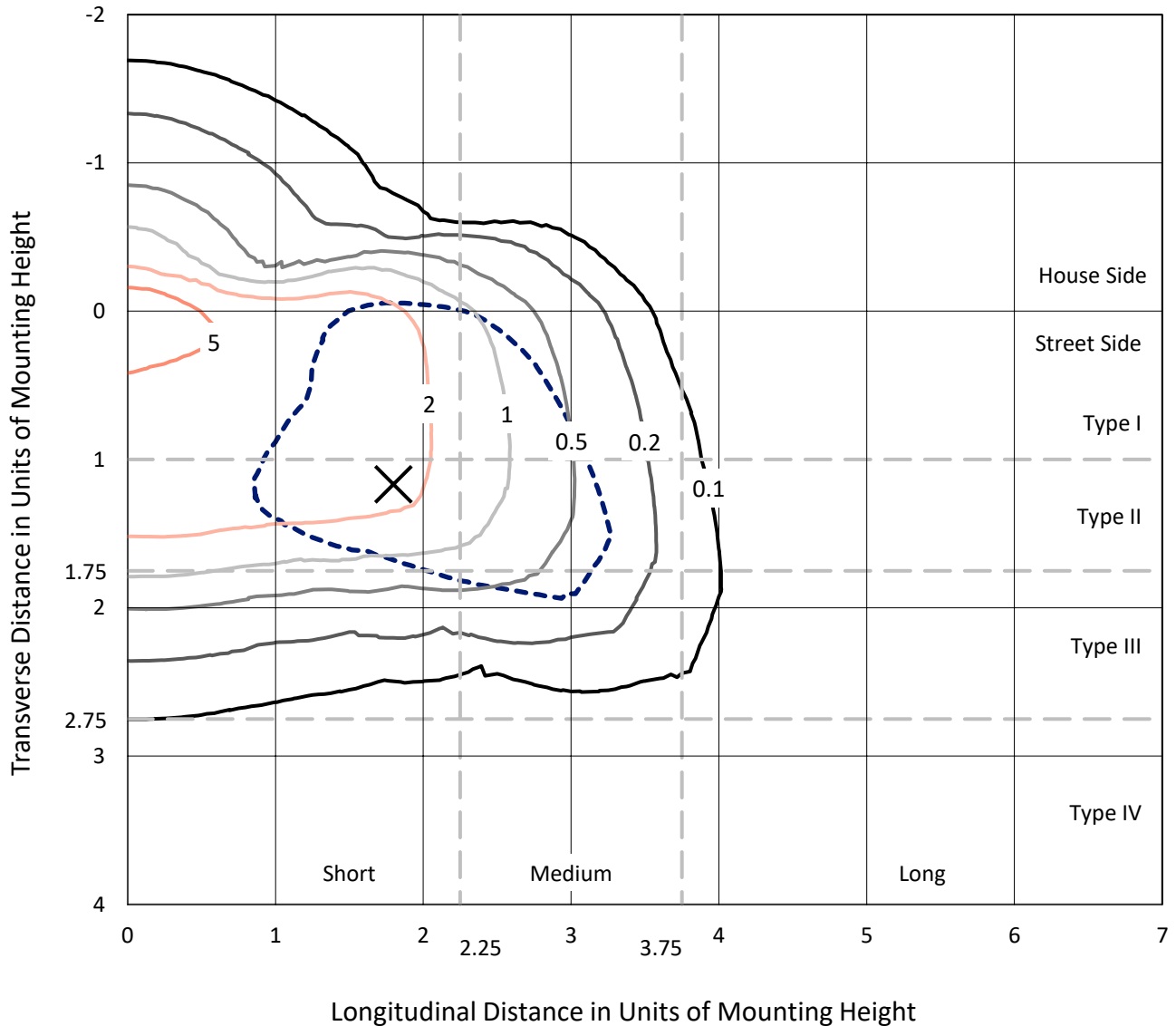
Lumens per Lamp: N/A  
Luminaire Lumens: 31425.2 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 303.8  
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

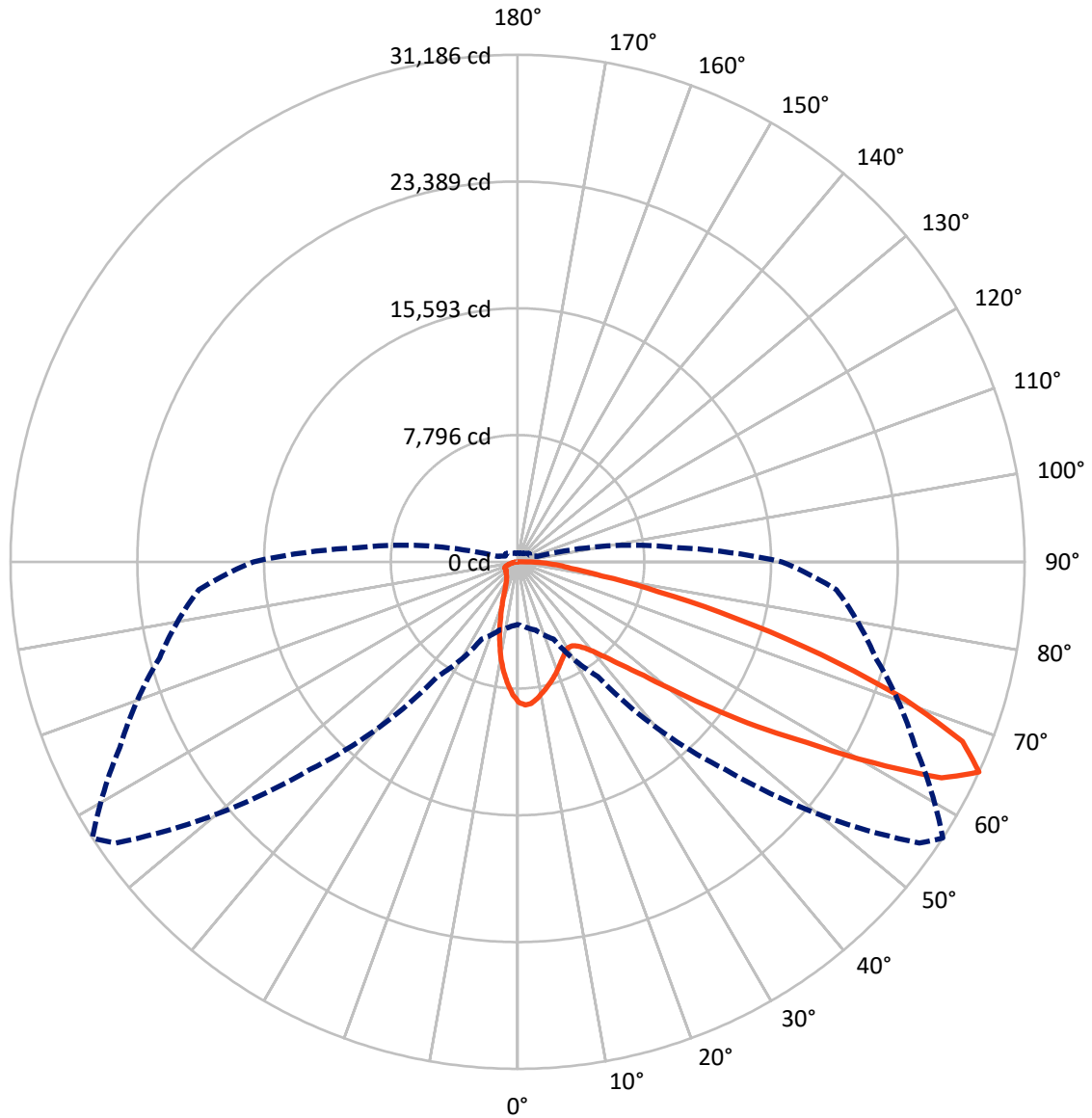
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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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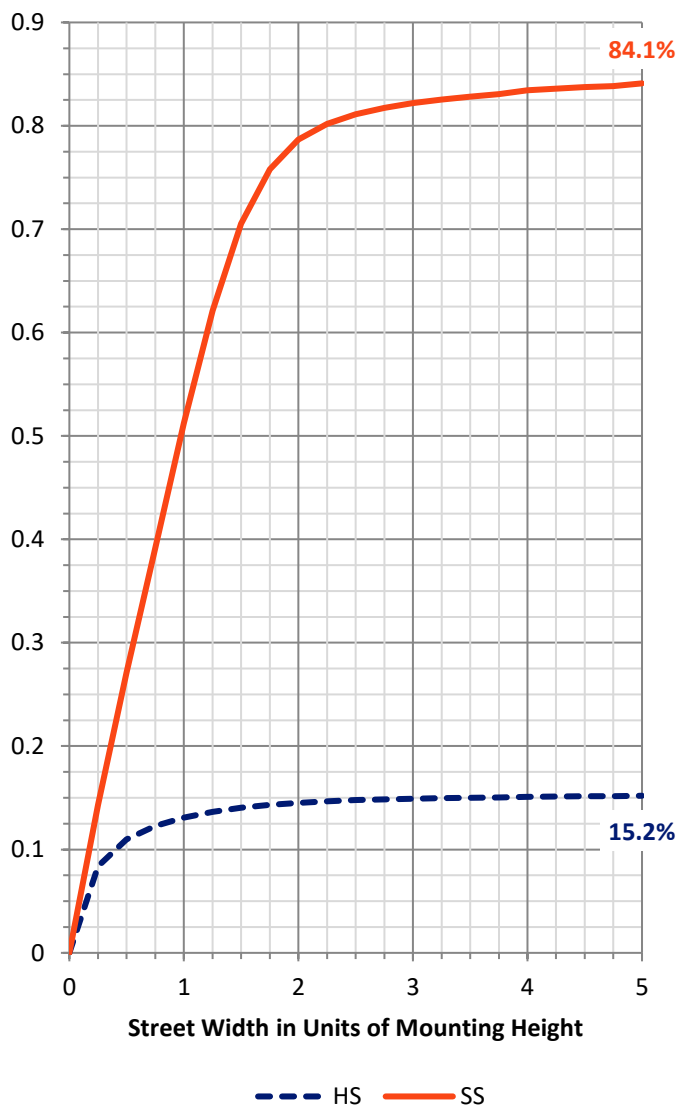
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4819.4	0.0	4819.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	26605.8	0.0	26605.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	31425.2	0.0	31425.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	723.7	2.3
10°-20°	1557.4	5.0
20°-30°	2013.6	6.4
30°-40°	2709.7	8.6
40°-50°	4320.7	13.7
50°-60°	7631.4	24.3
60°-70°	8395.5	26.7
70°-80°	3512.0	11.2
80°-90°	561.3	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°	31425.2	100.0
0°-180°	31425.2	100.0

**Coefficient of Utilization**



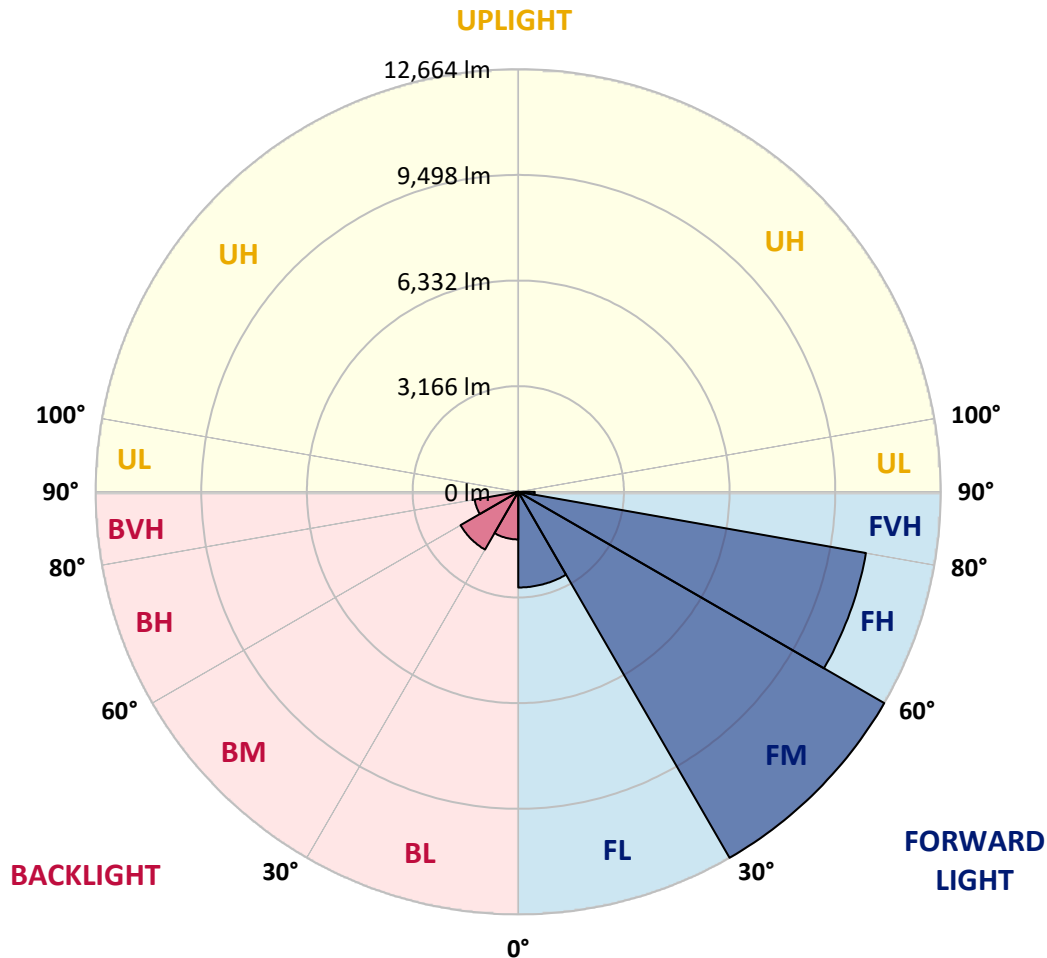
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2867.4	9.1			
FM (30°-60°)	12664.3	40.3			
FH (60°-80°)	10578.7	33.7			G4/12000
FVH (80°-90°)	495.4	1.6			G3/500
BL (0°-30°)	1427.3	4.5	B3/2500		
BM (30°-60°)	1997.4	6.4	B2/2500		
BH (60°-80°)	1328.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	65.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5
2.5°	8874.8	8889.0	8889.0	8917.3	8821.8	8867.8	8860.7	8818.3	8832.4	8758.2
5°	8623.8	8613.2	8669.8	8676.8	8751.1	8772.3	8790.0	8761.7	8768.8	8606.1
7.5°	7980.3	7976.7	8072.2	8153.5	8309.1	8454.1	8549.5	8521.3	8560.2	8457.6
10°	7216.6	7297.9	7396.9	7478.2	7764.6	7948.5	8196.0	8220.7	8369.2	8344.5
12.5°	6643.8	6679.1	6753.4	6986.7	7248.4	7552.5	7906.0	7937.9	8082.8	8153.5
15°	6173.5	6205.3	6300.8	6474.0	6767.5	7128.2	7577.2	7658.5	7948.5	7973.2
17.5°	5830.5	5855.3	5918.9	6092.2	6332.6	6795.8	7220.1	7365.1	7746.9	7867.1
20°	5696.2	5643.1	5678.5	5788.1	6028.5	6385.6	6933.7	7061.0	7548.9	7785.8
22.5°	5636.1	5590.1	5611.3	5604.2	5795.2	6049.7	6626.1	6760.4	7361.5	7690.4
25°	5682.0	5682.0	5660.8	5643.1	5664.3	5830.5	6293.7	6502.3	7110.5	7609.0
27.5°	5929.5	5834.1	5844.7	5770.4	5749.2	5749.2	6145.2	6269.0	7029.2	7563.1
30°	6088.6	6134.6	6138.1	6028.5	5918.9	5720.9	6007.3	6127.5	6962.0	7619.6
32.5°	6495.3	6474.0	6413.9	6392.7	6230.1	6007.3	6074.5	6155.8	6923.1	7746.9
35°	6901.9	6891.3	6894.8	6884.2	6714.5	6385.6	6254.8	6364.4	6993.8	7969.7
37.5°	7322.6	7350.9	7471.1	7471.1	7290.8	6933.7	6760.4	6728.6	7251.9	8333.9
40°	7743.4	7814.1	7966.1	8206.6	7952.0	7619.6	7340.3	7290.8	7563.1	8821.8
42.5°	8146.5	8263.1	8563.7	8920.8	8835.9	8503.6	8132.3	8075.8	8203.0	9546.6
45°	8662.7	8761.7	9235.5	9783.5	9900.2	9606.8	9171.8	9125.9	9118.8	10607.4
47.5°	9447.6	9553.7	10027.5	10579.1	10939.7	10985.7	10497.8	10448.3	10278.6	12039.4
50°	10430.6	10603.8	11003.4	11646.9	12170.2	12661.7	12523.8	12378.8	12046.4	13704.7
52.5°	11148.4	11360.5	11901.5	12725.3	13648.2	14429.6	14924.6	14924.6	14160.9	15532.7
55°	11339.3	11466.6	12149.0	13340.5	14921.0	16897.6	17933.5	17855.8	16678.3	17456.2
57.5°	10579.1	10745.3	11572.7	12820.8	15589.3	19206.4	20921.3	20939.0	19429.2	19690.8
60°	8485.9	8538.9	9514.8	11183.7	14945.8	21066.3	25001.6	25068.8	22558.4	21681.5
62.5°	5865.9	6035.6	6771.0	8234.9	12382.3	20857.6	28936.9	29269.3	25065.2	22731.6
65°	3861.1	3963.6	4356.1	5247.1	8620.3	18078.5	30160.3	31185.7	26981.6	22791.7
67.5°	2800.3	2818.0	2934.7	3394.4	5179.9	13001.1	28070.7	29516.8	27699.4	22289.6
70°	2262.9	2277.1	2319.5	2613.0	3344.9	8135.9	22894.3	25160.7	25546.1	19910.1
72.5°	1838.6	1856.3	1909.3	2185.1	2757.9	4525.8	16742.0	19503.4	20779.9	14730.1
75°	1446.1	1460.3	1587.6	1859.8	2591.7	3108.0	11105.9	13810.8	13984.1	8609.7
77.5°	990.0	1014.8	1170.3	1577.0	2439.7	2719.0	6923.1	8846.6	7937.9	3369.6
80°	629.4	664.7	756.7	1195.1	2156.8	2595.3	4306.6	5282.5	3475.7	1152.7
82.5°	371.3	406.6	498.5	774.3	1693.6	2407.9	3033.7	3306.0	1630.0	590.5
85°	205.1	229.8	300.5	466.7	993.6	2139.2	2429.1	2372.5	933.4	314.7
87.5°	67.2	77.8	109.6	187.4	410.2	1007.7	1456.7	1368.4	484.4	145.0
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°
8641.5	0°	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5	8641.5
8683.9	2.5°	8634.4	8623.8	8464.7	8344.5	8139.4	7969.7	7902.5	7810.6	7807.0	7739.9
8535.4	5°	8425.8	8316.2	8072.2	7838.9	7474.7	7230.7	7007.9	6852.4	6788.7	6650.8
8291.4	7.5°	8157.1	8012.1	7637.3	7198.9	6771.0	6389.2	6042.7	5696.2	5501.7	5434.5
8043.9	10°	7877.7	7623.2	7068.1	6576.6	5979.0	5392.1	4847.6	4359.6	4094.4	3907.1
7891.9	12.5°	7655.0	7315.6	6608.4	5873.0	5084.5	4299.5	3666.6	3153.9	2853.4	2712.0
7693.9	15°	7404.0	6954.9	6106.3	5176.4	4193.5	3302.4	2683.7	2280.6	2160.4	2093.2
7488.8	17.5°	7138.8	6619.0	5561.8	4490.5	3323.6	2485.7	2086.1	1923.5	1870.4	1842.1
7294.3	20°	6891.3	6318.5	5003.1	3726.7	2602.3	1994.2	1806.8	1721.9	1718.4	1732.5
7121.1	22.5°	6541.2	5926.0	4451.6	3019.6	2079.0	1736.1	1615.9	1594.6	1615.9	1633.5
6944.3	25°	6343.2	5604.2	3836.3	2397.3	1718.4	1541.6	1502.7	1495.6	1527.5	1548.7
6799.3	27.5°	6138.1	5271.9	3263.5	1919.9	1506.2	1403.7	1396.6	1403.7	1435.5	1467.4
6714.5	30°	5979.0	5006.7	2726.1	1605.3	1343.6	1304.7	1297.6	1304.7	1322.4	1325.9
6739.2	32.5°	5848.2	4692.0	2270.0	1393.1	1244.6	1212.8	1219.8	1216.3	1219.8	1223.4
6824.1	35°	5770.4	4504.6	1895.2	1262.3	1163.3	1138.5	1135.0	1124.4	1127.9	1131.5
7025.6	37.5°	5936.6	4412.7	1598.2	1170.3	1106.7	1085.5	1078.4	1071.3	1060.7	1060.7
7510.0	40°	6187.6	4363.2	1417.9	1110.2	1064.3	1039.5	1018.3	1011.2	1011.2	1014.8
8185.4	42.5°	6686.2	4444.5	1294.1	1064.3	1011.2	983.0	961.7	965.3	975.9	986.5
9115.3	45°	7407.5	4692.0	1237.5	1028.9	979.4	940.5	926.4	922.8	933.4	951.1
10476.6	47.5°	8351.5	5077.4	1216.3	997.1	958.2	905.2	887.5	898.1	912.2	937.0
12202.0	50°	9896.7	5943.7	1234.0	968.8	926.4	887.5	866.3	855.7	866.3	883.9
14277.5	52.5°	11915.6	7517.1	1301.2	954.7	905.2	873.3	838.0	820.3	830.9	845.1
16692.5	55°	14330.6	9666.9	1488.6	937.0	869.8	852.1	813.2	777.9	784.9	784.9
19075.6	57.5°	16459.1	11289.8	1711.3	912.2	848.6	823.8	774.3	731.9	724.8	728.4
20288.4	60°	17413.8	11721.2	1817.4	905.2	848.6	788.5	721.3	678.9	668.3	661.2
20479.3	62.5°	17247.6	10975.1	1601.7	873.3	869.8	760.2	671.8	625.8	611.7	597.5
19680.2	65°	16243.4	9910.8	1262.3	830.9	873.3	742.5	622.3	576.3	551.6	533.9
17806.3	67.5°	14408.4	8461.2	1000.6	799.1	838.0	710.7	579.9	526.8	505.6	487.9
14341.2	70°	11272.1	6633.1	869.8	756.7	753.1	632.9	530.4	484.4	452.6	431.4
9532.5	72.5°	7308.5	4193.5	746.1	671.8	650.6	530.4	459.7	431.4	406.6	388.9
4462.2	75°	3309.5	1948.2	601.1	562.2	530.4	424.3	388.9	374.8	353.6	335.9
1534.5	77.5°	1188.0	830.9	449.0	442.0	396.0	328.8	314.7	304.1	289.9	272.3
739.0	80°	664.7	526.8	335.9	321.8	275.8	244.0	226.3	226.3	219.2	208.6
445.5	82.5°	420.8	343.0	247.5	215.7	180.3	162.6	155.6	152.0	148.5	134.4
279.3	85°	265.2	233.4	162.6	127.3	106.1	81.3	77.8	74.3	67.2	60.1
109.6	87.5°	120.2	134.4	63.6	38.9	28.3	17.7	10.6	3.5	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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<u>180°</u>
8641.5
7722.2
6619.0
5360.3
3825.7
2648.3
2082.6
1828.0
1729.0
1640.6
1545.1
1463.8
1325.9
1226.9
1127.9
1060.7
1018.3
979.4
965.3
926.4
891.0
845.1
781.4
731.9
661.2
601.1
530.4
480.9
431.4
388.9
335.9
272.3
205.1
130.8
60.1
0.0
0.0

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