

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: P575164

Luminaire Tested: **EPH-VN-04-730-U-T2R-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575164  
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-T2R-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

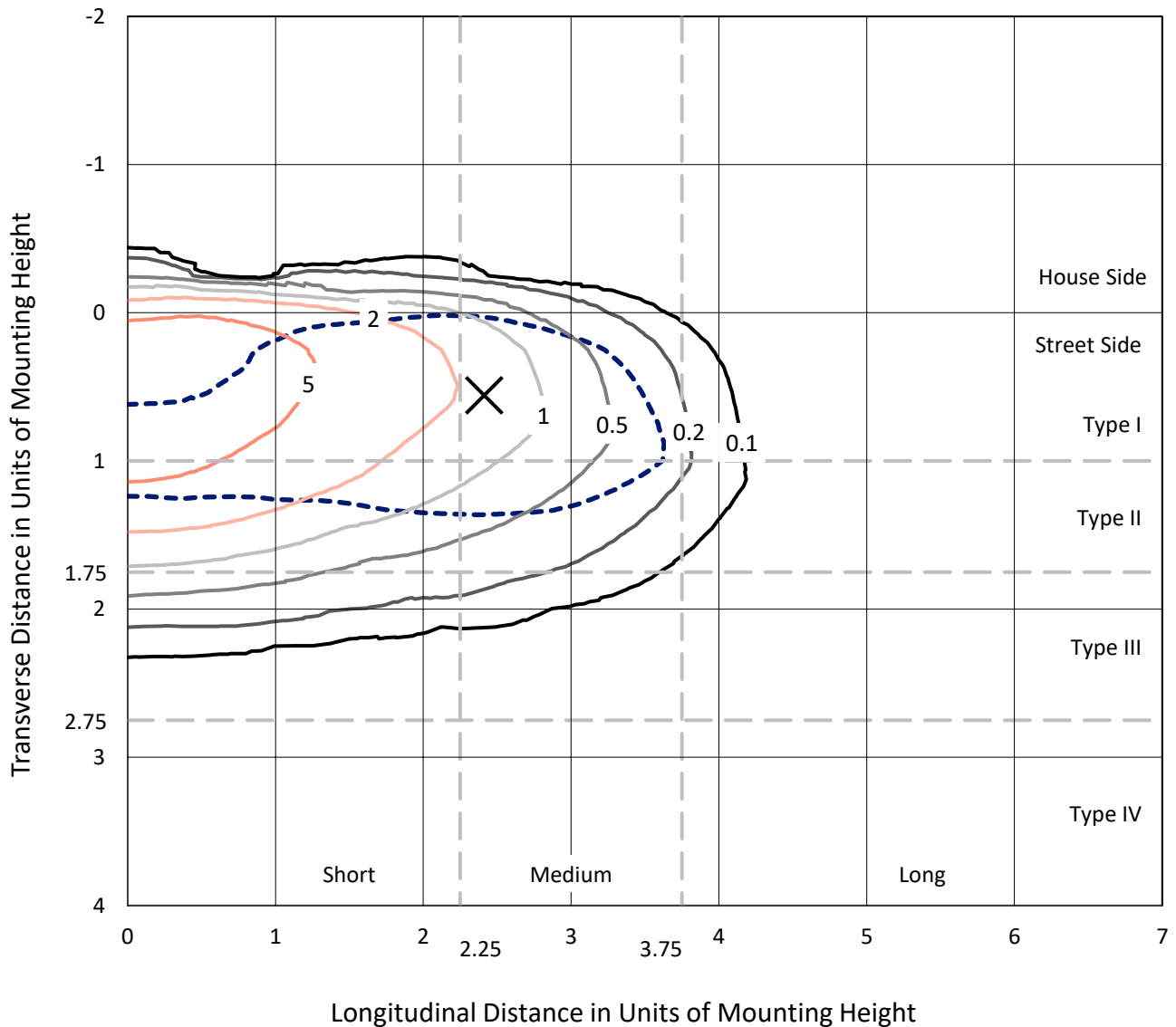
Lumens per Lamp: N/A  
Luminaire Lumens: 21636.3 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 241  
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

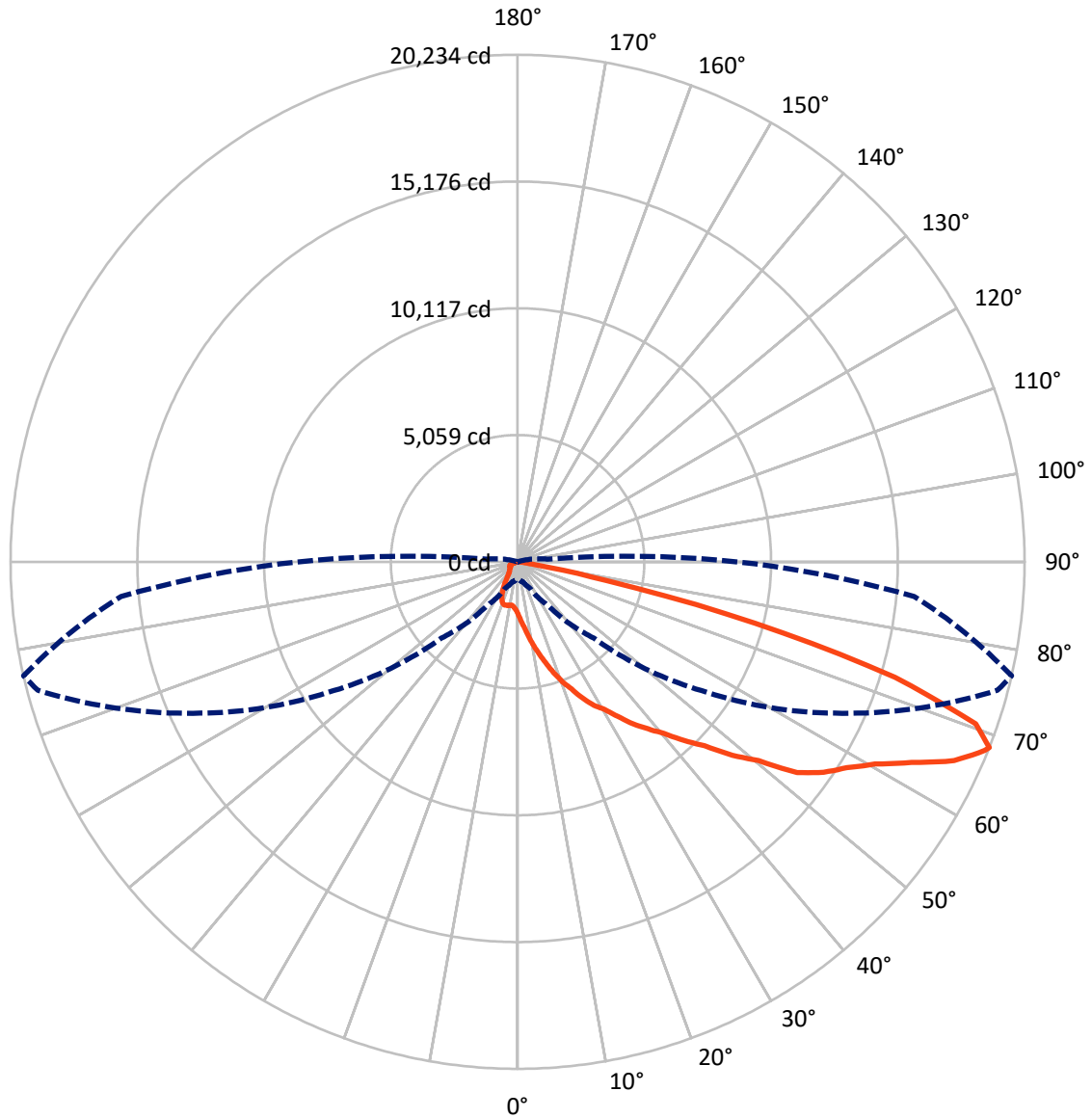
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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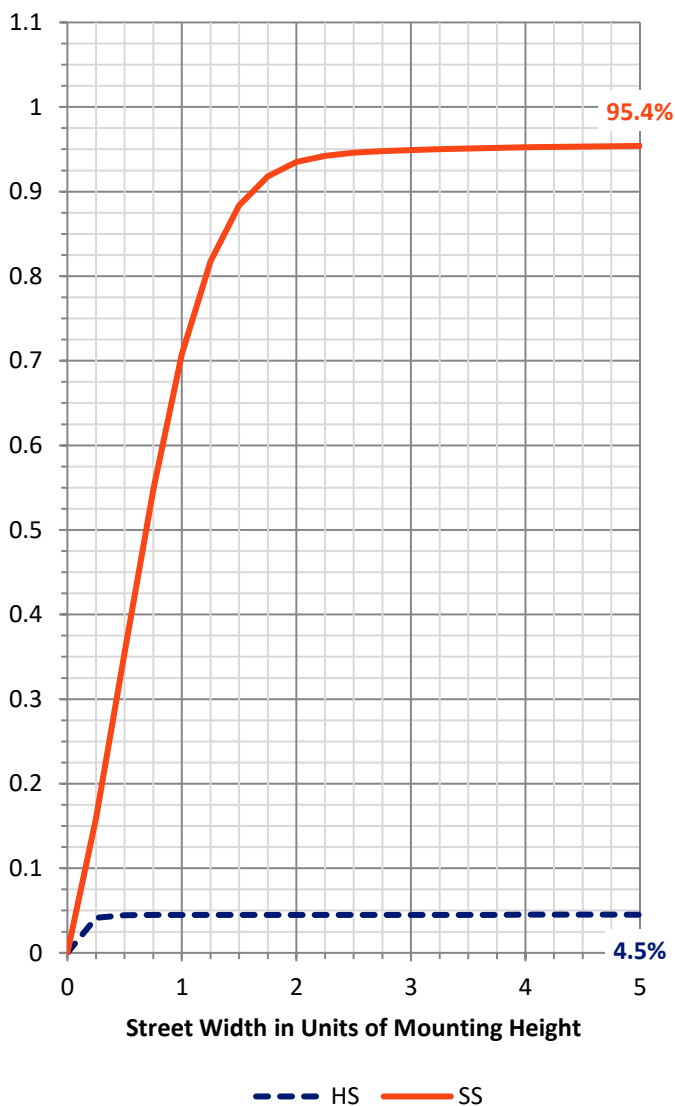
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	981.2	0.0	981.2
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	20655.1	0.0	20655.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	21636.3	0.0	21636.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.0	1.1
10°-20°	892.6	4.1
20°-30°	1729.9	8.0
30°-40°	3015.9	13.9
40°-50°	4417.0	20.4
50°-60°	5189.3	24.0
60°-70°	4381.9	20.3
70°-80°	1698.5	7.9
80°-90°	69.1	0.3
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°	21636.3	100.0
0°-180°	21636.3	100.0

**Coefficient of Utilization**

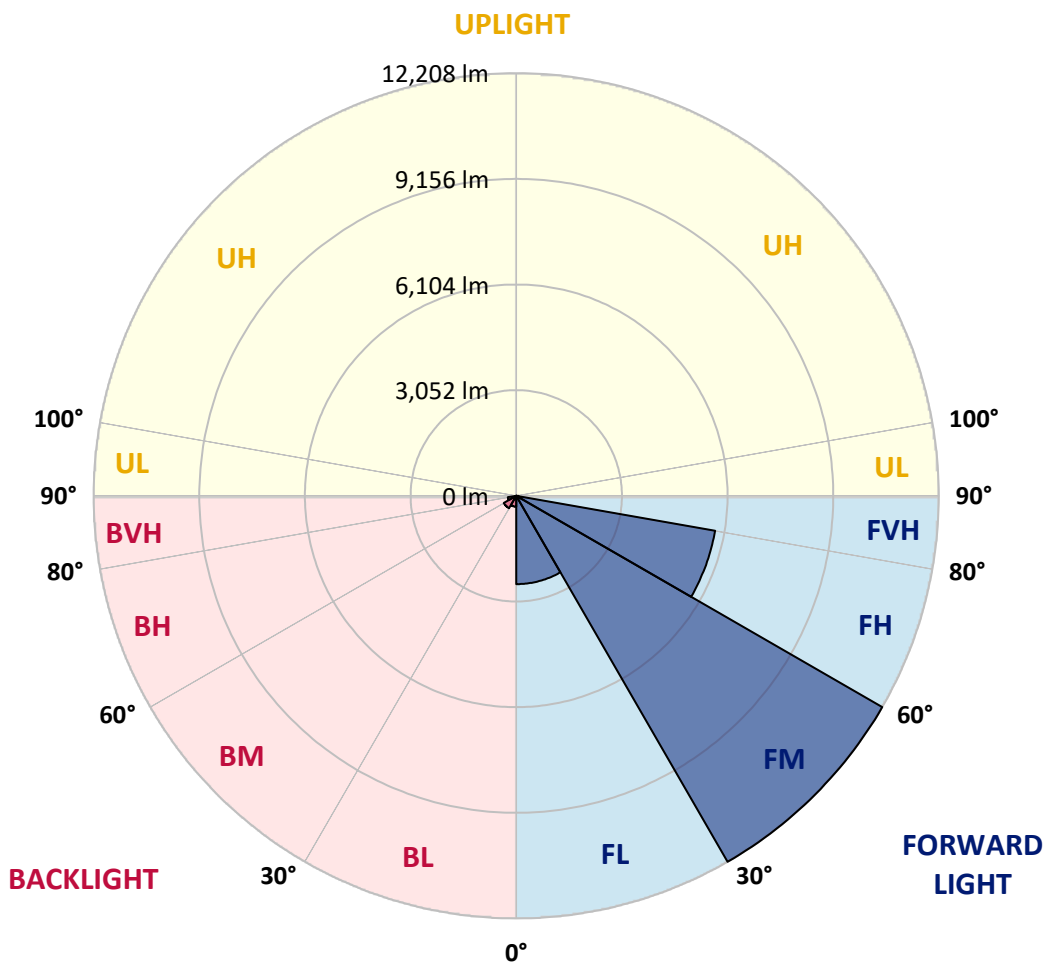


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2551.1	11.8			
FM (30°-60°)	12207.6	56.4			
FH (60°-80°)	5832.7	27.0			G3/7500
FVH (80°-90°)	63.7	0.3			G1/100
BL (0°-30°)	313.5	1.4	B1/500		
BM (30°-60°)	414.6	1.9	B1/1000		
BH (60°-80°)	247.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.3	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7
2.5°	3147.8	3088.2	3025.6	3007.7	2891.4	2760.3	2638.1	2518.8	2319.1	2322.1
5°	4057.0	3982.4	3931.8	3919.8	3738.0	3511.5	3326.7	2989.8	2658.9	2584.4
7.5°	4805.2	4781.3	4706.8	4644.2	4510.1	4232.8	4015.2	3532.3	3028.6	2945.1
10°	5258.3	5294.0	5326.8	5246.3	5142.0	4942.3	4644.2	4122.5	3448.9	3344.5
12.5°	5741.2	5681.5	5702.4	5768.0	5630.9	5586.2	5216.5	4730.6	3940.7	3741.0
15°	5866.4	5890.2	5940.9	6131.7	6224.1	6095.9	5776.9	5222.5	4450.4	4173.2
17.5°	5949.8	5937.9	6000.5	6286.7	6426.8	6549.0	6349.3	5771.0	4894.6	4647.2
20°	6054.2	5988.6	6125.7	6307.5	6632.4	6888.8	6879.9	6322.4	5359.6	5097.3
22.5°	6441.7	6391.0	6501.3	6519.2	6745.7	7103.4	7189.9	6772.5	5836.5	5514.6
25°	7157.1	7249.5	7118.3	7005.0	7073.6	7309.1	7371.7	7172.0	6316.5	6021.4
27.5°	8203.4	8191.4	7932.1	7786.0	7622.1	7592.3	7637.0	7544.6	6695.0	6483.4
30°	9327.1	9228.8	8990.3	8638.6	8277.9	8054.3	7991.7	7896.3	7139.2	6832.2
32.5°	10221.4	10275.1	10009.8	9550.7	8951.6	8650.5	8349.4	8245.1	7628.1	7356.8
35°	11044.1	10972.6	10760.9	10373.4	9836.9	9351.0	8880.0	8656.5	8215.3	7947.0
37.5°	11652.2	11741.7	11339.2	10969.6	10436.0	10033.6	9571.6	9082.7	8820.4	8462.7
40°	12227.5	12087.4	11816.2	11476.4	10981.5	10674.5	10370.5	9607.3	9464.3	9002.2
42.5°	12126.2	12135.1	11986.1	11711.8	11354.1	11178.3	11073.9	10245.3	10048.5	9753.4
45°	11711.8	11747.6	11798.3	11664.2	11694.0	11518.1	11798.3	10978.6	10784.8	10471.8
47.5°	11255.8	11315.4	11303.5	11547.9	11825.1	11884.7	12585.2	11792.3	11708.9	11536.0
50°	10498.6	10522.5	10752.0	11196.2	11574.7	12197.7	13175.5	12680.6	12808.8	12469.0
52.5°	9204.9	9291.4	9881.6	10516.5	11279.6	12355.7	13574.9	14001.2	14326.1	13977.3
55°	7568.4	7687.7	8268.9	9458.3	10576.1	12117.2	13938.6	14698.7	15357.5	14829.8
57.5°	6089.9	6101.8	6623.5	7851.6	9577.5	11649.2	14123.4	15038.5	15923.8	15500.5
60°	4641.2	4593.5	5061.5	6125.7	7896.3	10498.6	13661.3	15211.4	16630.3	16385.9
62.5°	2986.8	2912.3	3422.0	4459.4	6167.4	8581.9	12737.3	15214.4	17733.2	17640.8
65°	1478.5	1427.8	1866.0	2733.5	4268.6	6563.9	11419.7	15157.7	19080.6	19140.2
67.5°	781.0	798.9	939.0	1386.1	2462.2	4638.2	9434.5	14493.0	19769.1	20103.0
68°	718.4	724.4	834.6	1153.6	2137.3	4301.4	8963.5	14299.2	19822.8	20234.2
70°	584.3	593.2	631.9	724.4	1156.6	2799.0	6915.6	12653.8	19015.0	19390.6
72.5°	465.0	491.8	515.7	554.4	679.6	1469.6	4301.4	9860.7	15709.2	15750.9
75°	354.7	375.6	423.3	456.1	530.6	807.8	2047.9	6012.4	10307.9	9801.1
77.5°	274.2	292.1	313.0	357.7	444.1	545.5	626.0	2551.6	4378.9	3603.9
80°	163.9	175.9	244.4	280.2	387.5	369.6	247.4	709.4	888.3	700.5
82.5°	95.4	104.3	140.1	214.6	271.3	199.7	146.1	220.6	217.6	190.8
85°	3.0	6.0	77.5	128.2	95.4	53.7	89.4	92.4	77.5	71.5
87.5°	0.0	3.0	20.9	17.9	20.9	11.9	17.9	23.8	29.8	26.8
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°
2071.7	0°	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7	2071.7
2185.0	2.5°	2092.6	2027.0	1880.9	1770.6	1651.4	1579.9	1508.3	1463.6	1439.8	1424.9
2334.0	5°	2146.2	2009.1	1773.6	1565.0	1427.8	1335.4	1243.0	1195.3	1150.6	1126.8
2515.9	7.5°	2265.5	2059.8	1669.3	1442.7	1281.8	1138.7	1022.4	930.0	876.4	828.7
2751.3	10°	2411.5	2089.6	1672.3	1371.2	1138.7	912.1	748.2	631.9	566.4	524.6
3049.4	12.5°	2560.6	2205.8	1684.2	1299.7	962.8	685.6	491.8	405.4	366.6	345.8
3326.7	15°	2787.1	2310.2	1654.4	1168.5	730.3	447.1	336.8	307.0	292.1	274.2
3672.4	17.5°	2983.9	2477.1	1639.5	971.8	500.8	321.9	280.2	247.4	232.5	214.6
4015.2	20°	3249.2	2581.4	1559.0	751.2	345.8	268.3	226.5	196.7	172.9	158.0
4384.9	22.5°	3490.6	2661.9	1415.9	512.7	265.3	211.6	166.9	137.1	116.3	98.4
4754.5	25°	3752.9	2742.4	1207.3	316.0	187.8	131.2	89.4	65.6	44.7	32.8
5058.5	27.5°	3940.7	2766.2	936.0	187.8	113.3	59.6	20.9	3.0	0.0	0.0
5359.6	30°	4131.5	2775.2	646.8	101.3	44.7	0.0	0.0	0.0	0.0	0.0
5705.4	32.5°	4349.1	2772.2	405.4	53.7	3.0	0.0	0.0	0.0	0.0	0.0
6086.9	35°	4516.0	2721.5	193.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0
6552.0	37.5°	4769.4	2647.0	59.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7076.6	40°	5058.5	2512.9	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7589.3	42.5°	5317.9	2375.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8179.5	45°	5613.0	2205.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8996.3	47.5°	6131.7	2134.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9968.0	50°	6808.3	2077.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10901.0	52.5°	7225.6	1910.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11467.4	55°	7443.2	1737.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12159.0	57.5°	7765.2	1654.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12990.6	60°	8242.1	1660.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14382.7	62.5°	8987.3	1743.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15739.0	65°	9398.7	1660.3	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16066.9	67.5°	9049.9	1329.5	56.6	14.9	3.0	0.0	0.0	0.0	0.0	0.0
15885.1	68°	8748.9	1222.2	56.6	14.9	3.0	0.0	0.0	0.0	0.0	0.0
14379.7	70°	7231.6	795.9	53.7	14.9	6.0	0.0	0.0	0.0	0.0	0.0
11193.2	72.5°	5267.2	441.2	44.7	11.9	6.0	0.0	0.0	0.0	0.0	0.0
6593.7	75°	3064.3	220.6	32.8	11.9	6.0	0.0	0.0	0.0	0.0	0.0
1863.0	77.5°	798.9	110.3	26.8	14.9	8.9	3.0	0.0	0.0	0.0	0.0
339.8	80°	158.0	71.5	23.8	17.9	11.9	6.0	0.0	0.0	0.0	0.0
113.3	82.5°	74.5	50.7	23.8	17.9	14.9	8.9	3.0	0.0	0.0	0.0
50.7	85°	38.8	23.8	23.8	17.9	17.9	11.9	6.0	0.0	0.0	0.0
20.9	87.5°	17.9	8.9	8.9	8.9	8.9	6.0	3.0	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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