

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: P575169

Luminaire Tested: **EPH-VN-03-735-U-T2R-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575169  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-735-U-T2R-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

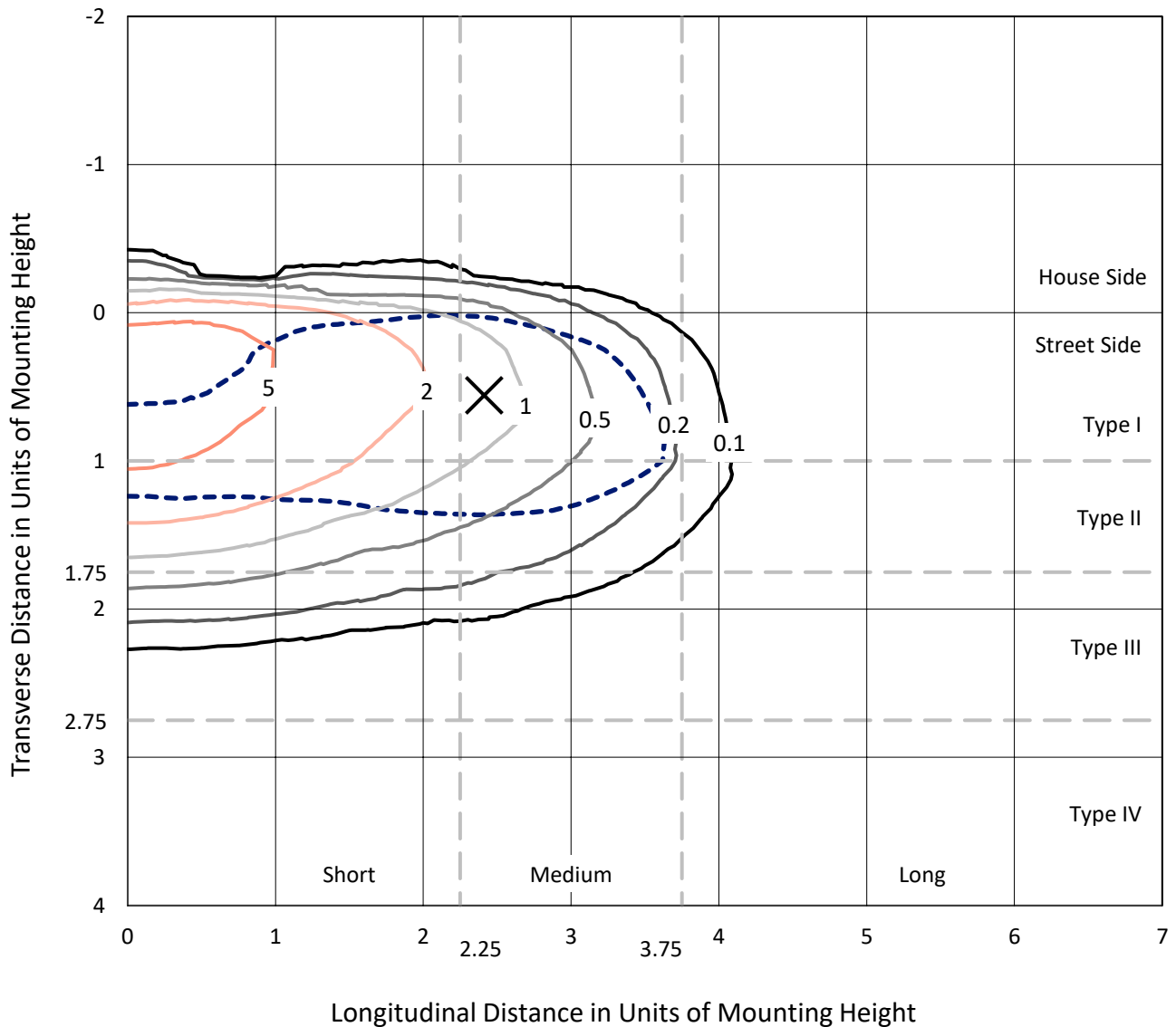
Lumens per Lamp: N/A  
Luminaire Lumens: 18073.6 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1  
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

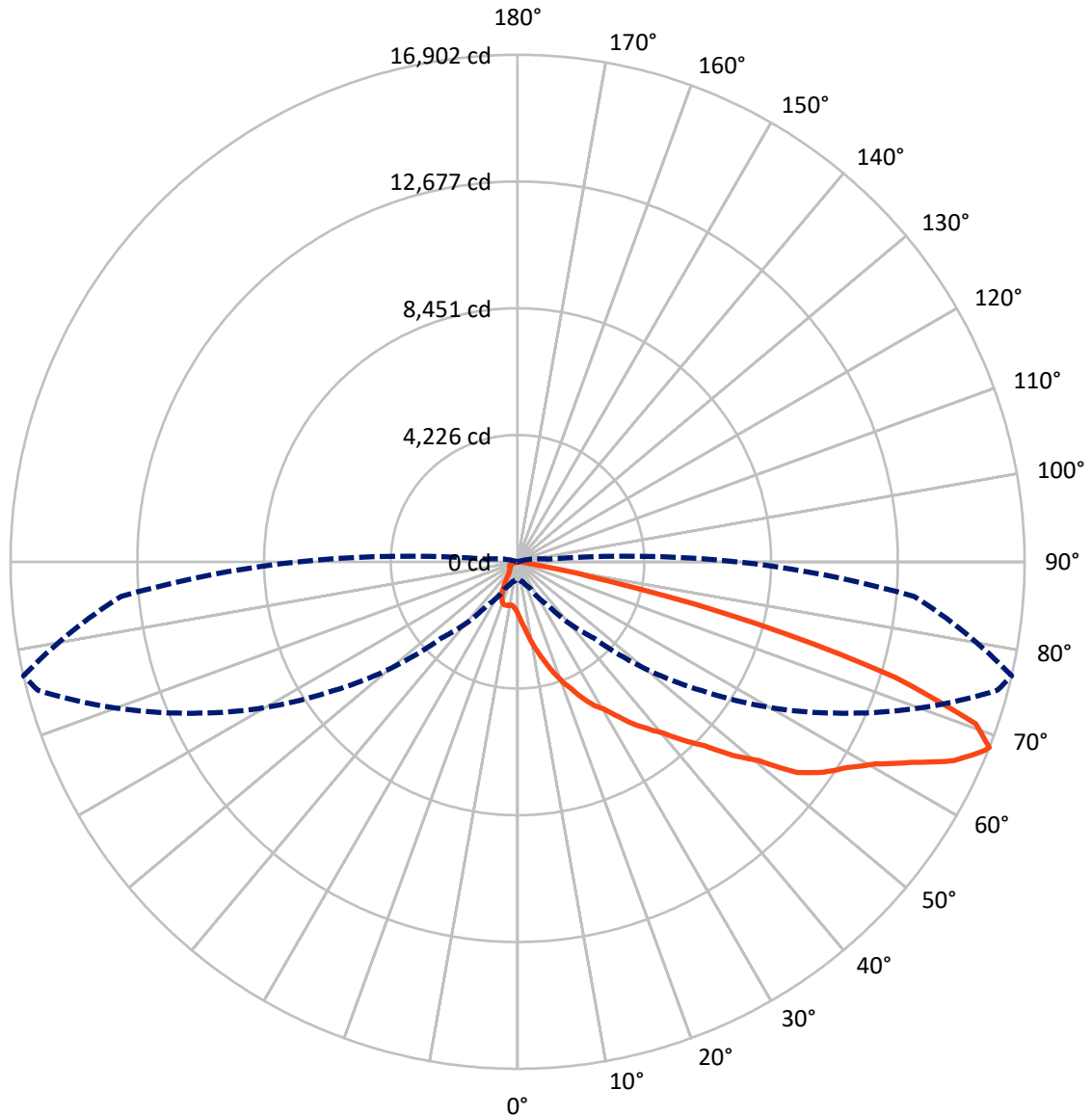
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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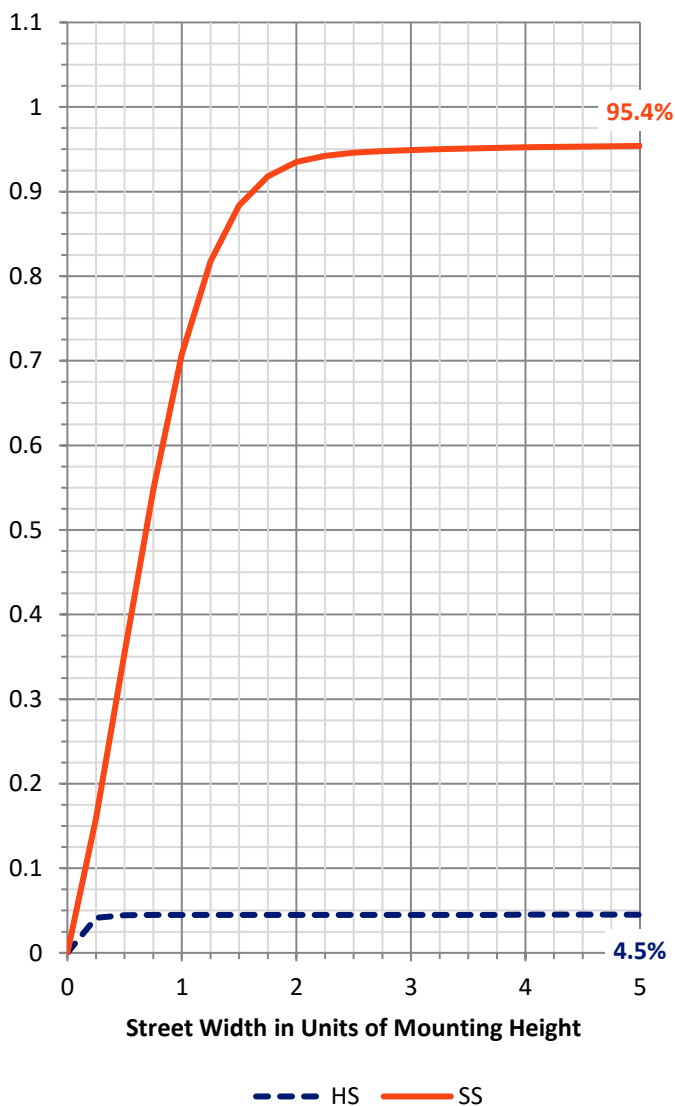
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	819.6	0.0	819.6
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	17254.0	0.0	17254.0
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	18073.6	0.0	18073.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.2	1.1
10°-20°	745.6	4.1
20°-30°	1445.1	8.0
30°-40°	2519.3	13.9
40°-50°	3689.7	20.4
50°-60°	4334.8	24.0
60°-70°	3660.4	20.3
70°-80°	1418.9	7.9
80°-90°	57.7	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°	18073.6	100.0
0°-180°	18073.6	100.0

**Coefficient of Utilization**

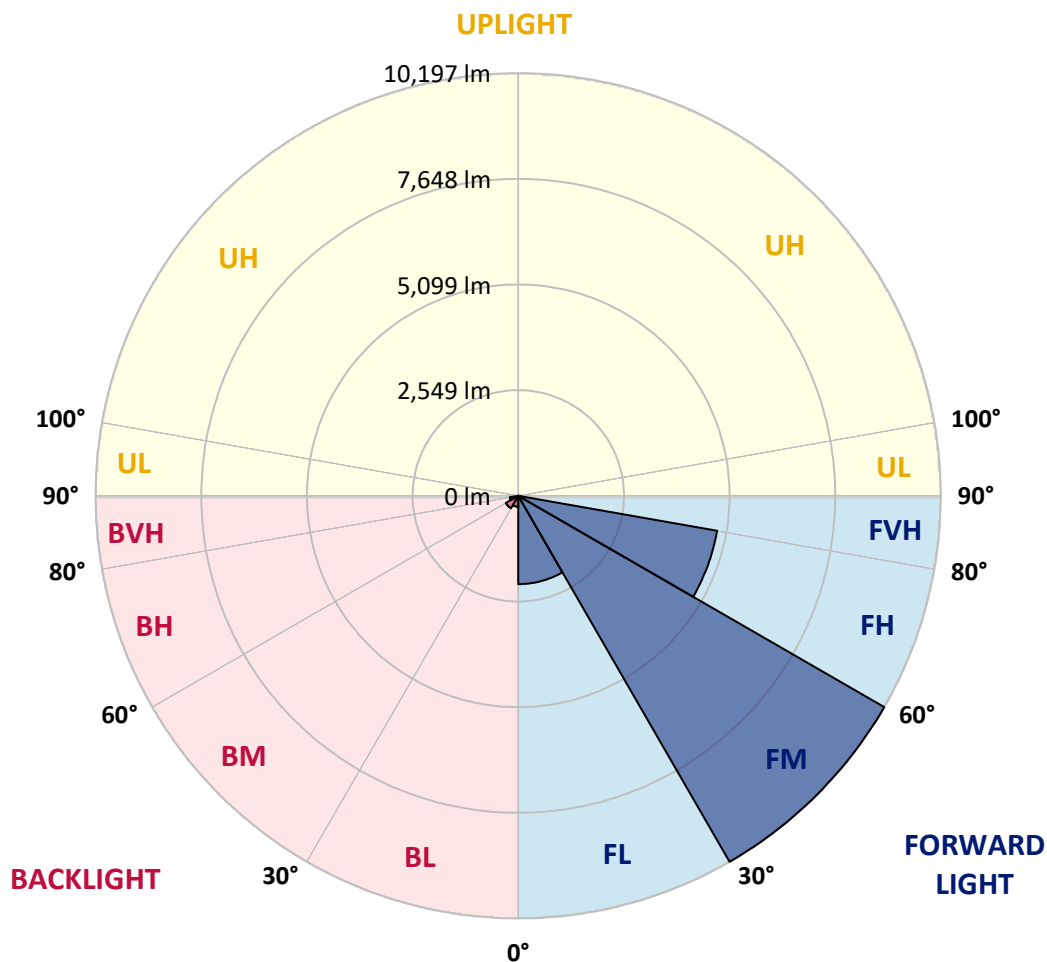


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.0	11.8			
FM (30°-60°)	10197.5	56.4			
FH (60°-80°)	4872.3	27.0			G2/5000
FVH (80°-90°)	53.2	0.3			G1/100
BL (0°-30°)	261.9	1.4	B1/500		
BM (30°-60°)	346.3	1.9	B1/1000		
BH (60°-80°)	207.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6
2.5°	2629.5	2579.7	2527.4	2512.4	2415.3	2305.8	2203.7	2104.1	1937.2	1939.7
5°	3388.9	3326.7	3284.4	3274.4	3122.5	2933.3	2778.9	2497.5	2221.1	2158.9
7.5°	4013.9	3994.0	3931.8	3879.5	3767.4	3535.9	3354.1	2950.7	2529.9	2460.2
10°	4392.4	4422.3	4449.7	4382.5	4295.3	4128.5	3879.5	3443.7	2881.0	2793.8
12.5°	4795.8	4746.0	4763.4	4818.2	4703.7	4666.3	4357.6	3951.7	3291.8	3125.0
15°	4900.4	4920.3	4962.6	5122.0	5199.2	5092.1	4825.7	4362.5	3717.6	3486.1
17.5°	4970.1	4960.2	5012.4	5251.5	5368.5	5470.6	5303.8	4820.7	4088.6	3882.0
20°	5057.3	5002.5	5117.0	5268.9	5540.3	5754.5	5747.0	5281.4	4477.1	4258.0
22.5°	5381.0	5338.6	5430.8	5445.7	5635.0	5933.8	6006.0	5657.4	4875.5	4606.6
25°	5978.6	6055.8	5946.2	5851.6	5908.9	6105.6	6157.9	5991.0	5276.4	5029.9
27.5°	6852.6	6842.6	6626.0	6504.0	6367.0	6342.1	6379.5	6302.3	5592.6	5415.8
30°	7791.3	7709.2	7510.0	7216.1	6914.8	6728.1	6675.8	6596.1	5963.6	5707.2
32.5°	8538.3	8583.2	8361.5	7978.1	7477.6	7226.1	6974.6	6887.4	6372.0	6145.4
35°	9225.6	9165.8	8989.0	8665.3	8217.1	7811.2	7417.8	7231.1	6862.5	6638.4
37.5°	9733.6	9808.3	9472.1	9163.3	8717.6	8381.5	7995.5	7587.1	7368.0	7069.2
40°	10214.1	10097.1	9870.5	9586.6	9173.3	8916.8	8662.8	8025.4	7905.9	7519.9
42.5°	10129.5	10136.9	10012.4	9783.4	9484.6	9337.6	9250.5	8558.3	8393.9	8147.4
45°	9783.4	9813.2	9855.6	9743.5	9768.4	9621.5	9855.6	9170.8	9009.0	8747.5
47.5°	9402.4	9452.2	9442.2	9646.4	9878.0	9927.8	10512.9	9850.6	9780.9	9636.4
50°	8769.9	8789.8	8981.6	9352.6	9668.8	10189.2	11006.0	10592.6	10699.7	10415.8
52.5°	7689.2	7761.4	8254.5	8784.9	9422.3	10321.2	11339.6	11695.7	11967.1	11675.8
55°	6322.2	6421.8	6907.4	7900.9	8834.7	10122.0	11643.4	12278.4	12828.7	12387.9
57.5°	5087.1	5097.1	5532.9	6558.8	8000.5	9731.1	11797.8	12562.2	13301.8	12948.2
60°	3877.0	3837.1	4228.1	5117.0	6596.1	8769.9	11411.8	12706.7	13891.9	13687.7
62.5°	2495.0	2432.8	2858.6	3725.1	5151.9	7168.8	10639.9	12709.2	14813.2	14736.0
65°	1235.1	1192.7	1558.8	2283.4	3565.7	5483.1	9539.3	12661.8	15938.7	15988.5
67.5°	652.4	667.3	784.4	1157.9	2056.8	3874.5	7881.0	12106.6	16513.9	16792.8
68°	600.1	605.1	697.2	963.6	1785.4	3593.1	7487.5	11944.7	16558.8	16902.4
70°	488.0	495.5	527.9	605.1	966.1	2338.1	5776.9	10570.2	15883.9	16197.7
72.5°	388.4	410.9	430.8	463.1	567.7	1227.6	3593.1	8237.0	13122.5	13157.4
75°	296.3	313.7	353.6	381.0	443.2	674.8	1710.7	5022.4	8610.6	8187.2
77.5°	229.1	244.0	261.5	298.8	371.0	455.7	522.9	2131.5	3657.9	3010.5
80°	137.0	146.9	204.2	234.1	323.7	308.8	206.7	592.6	742.0	585.2
82.5°	79.7	87.2	117.0	179.3	226.6	166.8	122.0	184.3	181.8	159.4
85°	2.5	5.0	64.7	107.1	79.7	44.8	74.7	77.2	64.7	59.8
87.5°	0.0	2.5	17.4	14.9	17.4	10.0	14.9	19.9	24.9	22.4
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°
1730.6	0°	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6
1825.2	2.5°	1748.0	1693.2	1571.2	1479.1	1379.5	1319.7	1260.0	1222.6	1202.7	1190.2
1949.7	5°	1792.8	1678.3	1481.6	1307.3	1192.7	1115.5	1038.3	998.5	961.2	941.2
2101.6	7.5°	1892.4	1720.6	1394.4	1205.2	1070.7	951.2	854.1	776.9	732.1	692.2
2298.3	10°	2014.4	1745.5	1396.9	1145.4	951.2	762.0	625.0	527.9	473.1	438.2
2547.3	12.5°	2138.9	1842.6	1406.9	1085.7	804.3	572.7	410.9	338.6	306.3	288.8
2778.9	15°	2328.2	1929.8	1382.0	976.1	610.1	373.5	281.4	256.5	244.0	229.1
3067.7	17.5°	2492.5	2069.2	1369.5	811.8	418.3	268.9	234.1	206.7	194.2	179.3
3354.1	20°	2714.1	2156.4	1302.3	627.5	288.8	224.1	189.2	164.3	144.4	132.0
3662.8	22.5°	2915.8	2223.6	1182.8	428.3	221.6	176.8	139.4	114.5	97.1	82.2
3971.6	25°	3135.0	2290.8	1008.5	263.9	156.9	109.6	74.7	54.8	37.4	27.4
4225.6	27.5°	3291.8	2310.8	781.9	156.9	94.6	49.8	17.4	2.5	0.0	0.0
4477.1	30°	3451.2	2318.2	540.3	84.7	37.4	0.0	0.0	0.0	0.0	0.0
4765.9	32.5°	3633.0	2315.7	338.6	44.8	2.5	0.0	0.0	0.0	0.0	0.0
5084.7	35°	3772.4	2273.4	161.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0
5473.1	37.5°	3984.1	2211.2	49.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5911.3	40°	4225.6	2099.1	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6339.6	42.5°	4442.2	1984.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6832.7	45°	4688.7	1842.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7514.9	47.5°	5122.0	1782.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8326.7	50°	5687.2	1735.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9106.1	52.5°	6035.9	1596.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9579.2	55°	6217.6	1451.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10156.9	57.5°	6486.5	1382.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10851.6	60°	6885.0	1387.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12014.4	62.5°	7507.5	1456.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13147.4	65°	7851.1	1387.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13421.3	67.5°	7559.8	1110.6	47.3	12.5	2.5	0.0	0.0	0.0	0.0	0.0
13269.4	68°	7308.3	1020.9	47.3	12.5	2.5	0.0	0.0	0.0	0.0	0.0
12011.9	70°	6040.8	664.8	44.8	12.5	5.0	0.0	0.0	0.0	0.0	0.0
9350.1	72.5°	4399.9	368.5	37.4	10.0	5.0	0.0	0.0	0.0	0.0	0.0
5508.0	75°	2559.8	184.3	27.4	10.0	5.0	0.0	0.0	0.0	0.0	0.0
1556.3	77.5°	667.3	92.1	22.4	12.5	7.5	2.5	0.0	0.0	0.0	0.0
283.9	80°	132.0	59.8	19.9	14.9	10.0	5.0	0.0	0.0	0.0	0.0
94.6	82.5°	62.3	42.3	19.9	14.9	12.5	7.5	2.5	0.0	0.0	0.0
42.3	85°	32.4	19.9	19.9	14.9	14.9	10.0	5.0	0.0	0.0	0.0
17.4	87.5°	14.9	7.5	7.5	7.5	7.5	5.0	2.5	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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