

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: P575176

Luminaire Tested: **EPH-VN-04-740-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575176
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

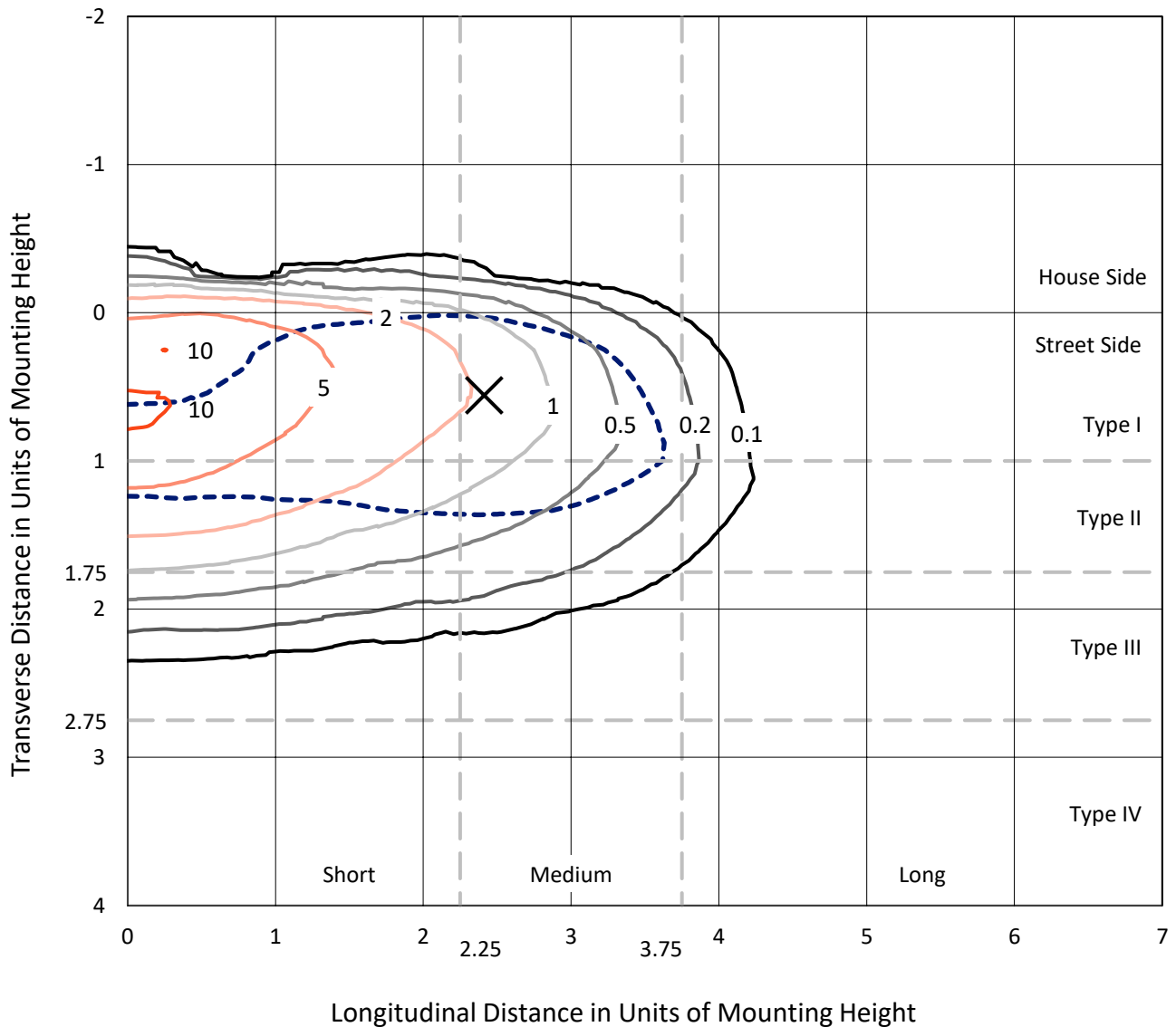
Lumens per Lamp: N/A
Luminaire Lumens: 23760.5 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

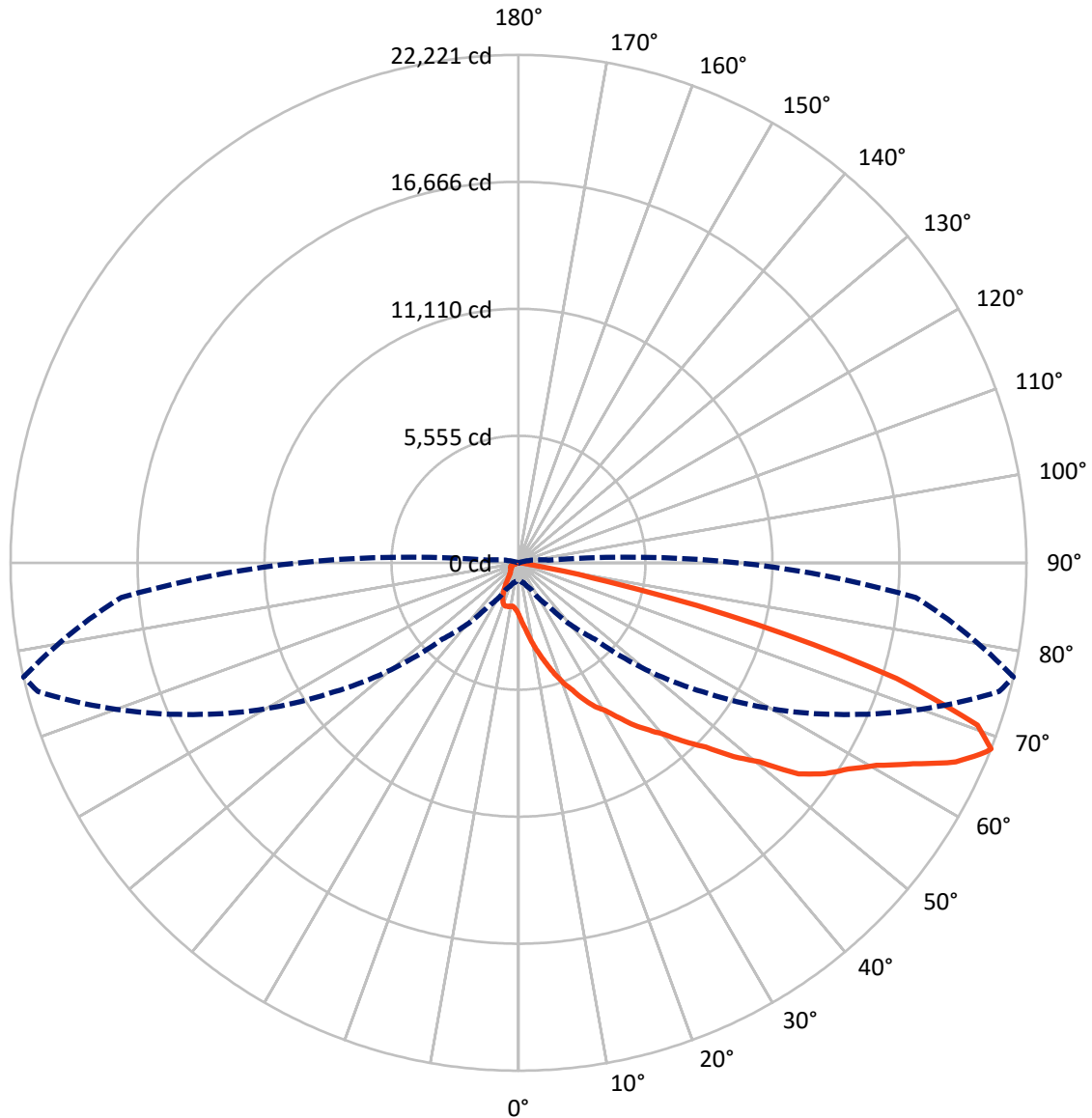
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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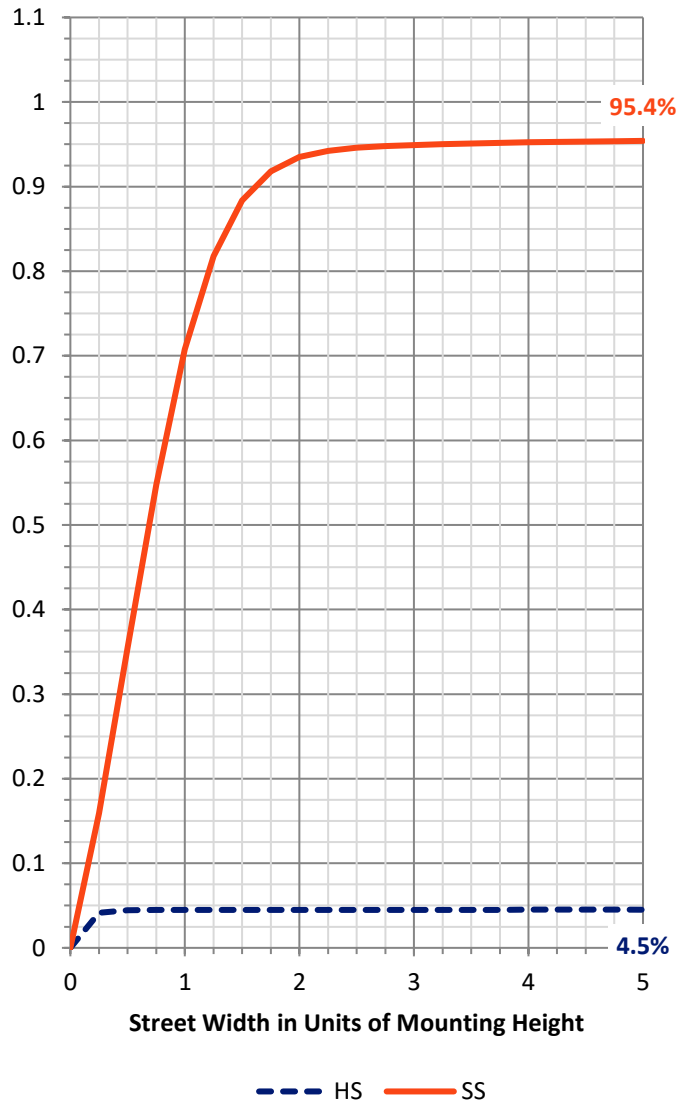
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1077.5	0.0	1077.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	22682.9	0.0	22682.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	23760.5	0.0	23760.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.8	1.1
10°-20°	980.3	4.1
20°-30°	1899.8	8.0
30°-40°	3312.0	13.9
40°-50°	4850.7	20.4
50°-60°	5698.8	24.0
60°-70°	4812.1	20.3
70°-80°	1865.3	7.9
80°-90°	75.8	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°	23760.5	100.0
0°-180°	23760.5	100.0

Coefficient of Utilization

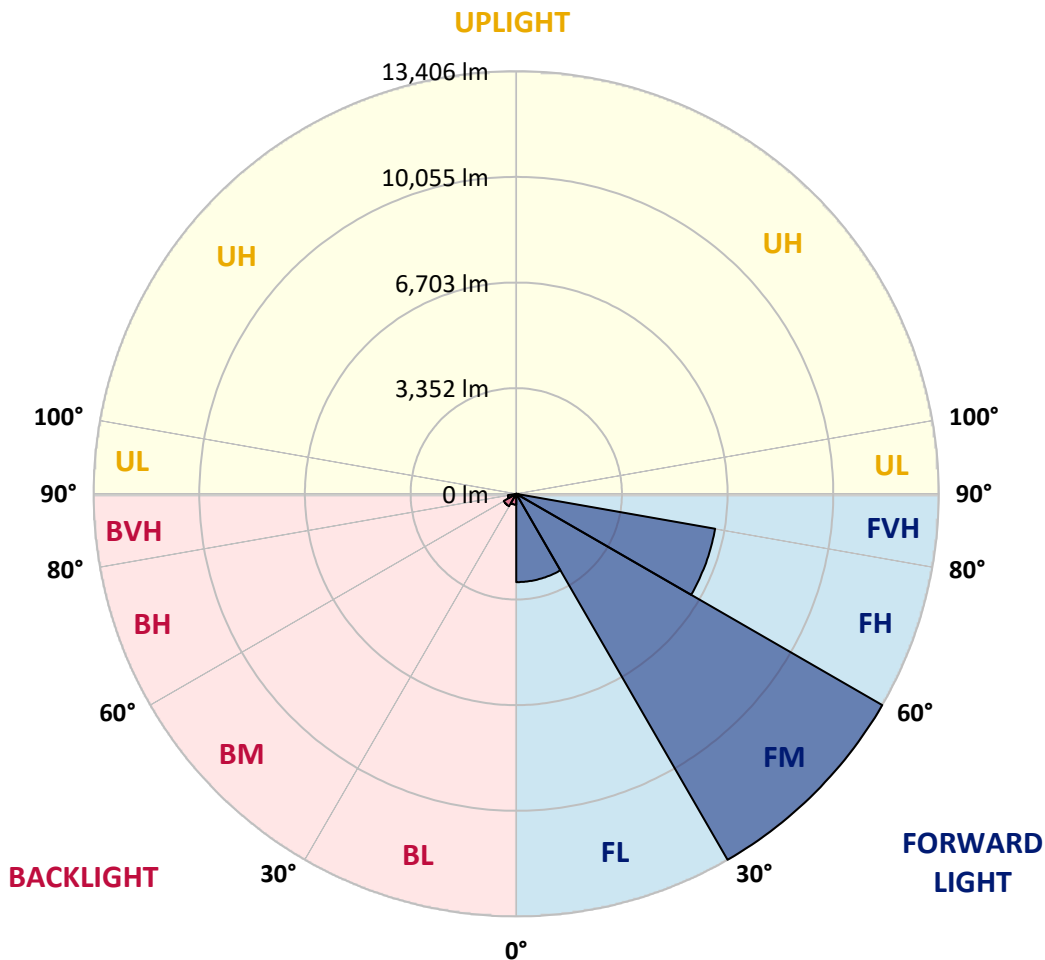


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2801.6	11.8			
FM (30°-60°)	13406.1	56.4			
FH (60°-80°)	6405.3	27.0			G3/7500
FVH (80°-90°)	70.0	0.3			G1/100
BL (0°-30°)	344.3	1.4	B1/500		
BM (30°-60°)	455.3	1.9	B1/1000		
BH (60°-80°)	272.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.9	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°	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1
2.5°	3456.8	3391.4	3322.6	3303.0	3175.3	3031.3	2897.1	2766.1	2546.8	2550.1
5°	4455.3	4373.4	4317.8	4304.7	4105.0	3856.2	3653.3	3283.3	2920.0	2838.1
7.5°	5276.9	5250.7	5168.9	5100.2	4952.8	4648.4	4409.4	3879.1	3325.9	3234.2
10°	5774.5	5813.8	5849.8	5761.4	5646.8	5427.5	5100.2	4527.3	3787.5	3672.9
12.5°	6304.8	6239.3	6262.3	6334.3	6183.7	6134.6	5728.7	5195.1	4327.6	4108.3
15°	6442.3	6468.5	6524.1	6733.6	6835.1	6694.4	6344.1	5735.2	4887.4	4582.9
17.5°	6534.0	6520.9	6589.6	6903.9	7057.7	7191.9	6972.6	6337.5	5375.1	5103.4
20°	6648.5	6576.5	6727.1	6926.8	7283.6	7565.1	7555.3	6943.1	5885.8	5597.7
22.5°	7074.1	7018.4	7139.6	7159.2	7408.0	7800.8	7895.7	7437.4	6409.6	6056.0
25°	7859.7	7961.2	7817.2	7692.8	7768.1	8026.7	8095.4	7876.1	6936.6	6612.5
27.5°	9008.7	8995.6	8710.8	8550.4	8370.4	8337.7	8386.8	8285.3	7352.3	7119.9
30°	10242.9	10134.8	9873.0	9486.7	9090.6	8845.1	8776.3	8671.6	7840.1	7502.9
32.5°	11224.9	11283.8	10992.5	10488.4	9830.4	9499.8	9169.1	9054.6	8377.0	8079.1
35°	12128.4	12049.8	11817.4	11391.9	10802.6	10269.0	9751.8	9506.3	9021.8	8727.2
37.5°	12796.2	12894.4	12452.5	12046.6	11460.6	11018.7	10511.3	9974.4	9686.4	9293.5
40°	13428.0	13274.1	12976.3	12603.1	12059.7	11722.5	11388.6	10550.6	10393.4	9886.0
42.5°	13316.7	13326.5	13162.8	12861.7	12468.9	12275.7	12161.1	11251.1	11035.1	10711.0
45°	12861.7	12901.0	12956.6	12809.3	12842.0	12648.9	12956.6	12056.4	11843.6	11499.9
47.5°	12360.8	12426.3	12413.2	12681.6	12986.1	13051.5	13820.8	12950.1	12858.4	12668.5
50°	11529.4	11555.5	11807.6	12295.4	12711.1	13395.3	14469.0	13925.6	14066.3	13693.2
52.5°	10108.6	10203.6	10851.7	11549.0	12387.0	13568.8	14907.6	15375.7	15732.6	15349.6
55°	8311.5	8442.4	9080.8	10386.9	11614.5	13306.9	15307.0	16141.8	16865.2	16285.8
57.5°	6687.8	6700.9	7273.8	8622.5	10517.8	12792.9	15510.0	16514.9	17487.2	17022.3
60°	5096.9	5044.5	5558.4	6727.1	8671.6	11529.4	15002.6	16704.8	18263.0	17994.6
62.5°	3280.1	3198.2	3758.0	4897.2	6772.9	9424.5	13987.8	16708.1	19474.2	19372.7
65°	1623.7	1568.0	2049.2	3001.8	4687.7	7208.3	12540.9	16645.9	20953.8	21019.3
67.5°	857.7	877.3	1031.2	1522.2	2703.9	5093.6	10360.7	15915.9	21710.0	22076.7
68°	788.9	795.5	916.6	1266.9	2347.1	4723.7	9843.5	15703.1	21768.9	22220.7
70°	641.6	651.4	694.0	795.5	1270.1	3073.8	7594.6	13896.1	20881.8	21294.3
72.5°	510.7	540.1	566.3	608.9	746.4	1613.8	4723.7	10828.8	17251.5	17297.3
75°	389.5	412.5	464.8	500.8	582.7	887.1	2248.9	6602.7	11319.8	10763.3
77.5°	301.2	320.8	343.7	392.8	487.8	599.1	687.4	2802.1	4808.8	3957.7
80°	180.0	193.1	268.4	307.7	425.6	405.9	271.7	779.1	975.5	769.3
82.5°	104.8	114.6	153.9	235.7	297.9	219.3	160.4	242.2	239.0	209.5
85°	3.3	6.5	85.1	140.8	104.8	58.9	98.2	101.5	85.1	78.6
87.5°	0.0	3.3	22.9	19.6	22.9	13.1	19.6	26.2	32.7	29.5
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°
2275.1	0°	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1
2399.5	2.5°	2298.0	2226.0	2065.6	1944.5	1813.5	1735.0	1656.4	1607.3	1581.1	1564.7
2563.2	5°	2356.9	2206.4	1947.7	1718.6	1568.0	1466.5	1365.1	1312.7	1263.6	1237.4
2762.9	7.5°	2487.9	2262.0	1833.2	1584.4	1407.6	1250.5	1122.8	1021.3	962.4	910.0
3021.5	10°	2648.3	2294.7	1836.4	1505.8	1250.5	1001.7	821.7	694.0	622.0	576.1
3348.8	12.5°	2812.0	2422.4	1849.5	1427.3	1057.3	752.9	540.1	445.2	402.6	379.7
3653.3	15°	3060.7	2537.0	1816.8	1283.2	802.0	491.0	369.9	337.2	320.8	301.2
4033.0	17.5°	3276.8	2720.3	1800.4	1067.2	550.0	353.5	307.7	271.7	255.3	235.7
4409.4	20°	3568.1	2834.9	1712.1	824.9	379.7	294.6	248.8	216.1	189.9	173.5
4815.4	22.5°	3833.3	2923.3	1554.9	563.0	291.3	232.4	183.3	150.6	127.7	108.0
5221.3	25°	4121.4	3011.6	1325.8	347.0	206.2	144.0	98.2	72.0	49.1	36.0
5555.2	27.5°	4327.6	3037.8	1027.9	206.2	124.4	65.5	22.9	3.3	0.0	0.0
5885.8	30°	4537.1	3047.7	710.4	111.3	49.1	0.0	0.0	0.0	0.0	0.0
6265.5	32.5°	4776.1	3044.4	445.2	58.9	3.3	0.0	0.0	0.0	0.0	0.0
6684.5	35°	4959.4	2988.7	212.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0
7195.2	37.5°	5237.6	2906.9	65.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7771.3	40°	5555.2	2759.6	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8334.4	42.5°	5840.0	2609.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8982.6	45°	6164.0	2422.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9879.5	47.5°	6733.6	2343.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10946.7	50°	7476.7	2281.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11971.3	52.5°	7935.0	2098.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12593.3	55°	8174.0	1908.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13352.7	57.5°	8527.5	1816.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14266.0	60°	9051.3	1823.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15794.8	62.5°	9869.7	1915.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17284.2	65°	10321.4	1823.4	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17644.3	67.5°	9938.4	1460.0	62.2	16.4	3.3	0.0	0.0	0.0	0.0	0.0
17444.6	68°	9607.8	1342.1	62.2	16.4	3.3	0.0	0.0	0.0	0.0	0.0
15791.5	70°	7941.6	874.0	58.9	16.4	6.5	0.0	0.0	0.0	0.0	0.0
12292.1	72.5°	5784.3	484.5	49.1	13.1	6.5	0.0	0.0	0.0	0.0	0.0
7241.0	75°	3365.2	242.2	36.0	13.1	6.5	0.0	0.0	0.0	0.0	0.0
2046.0	77.5°	877.3	121.1	29.5	16.4	9.8	3.3	0.0	0.0	0.0	0.0
373.2	80°	173.5	78.6	26.2	19.6	13.1	6.5	0.0	0.0	0.0	0.0
124.4	82.5°	81.8	55.6	26.2	19.6	16.4	9.8	3.3	0.0	0.0	0.0
55.6	85°	42.6	26.2	26.2	19.6	19.6	13.1	6.5	0.0	0.0	0.0
22.9	87.5°	19.6	9.8	9.8	9.8	9.8	6.5	3.3	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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