

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: P575139

Luminaire Tested: **EPH-VN-07-740-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575139
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-740-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

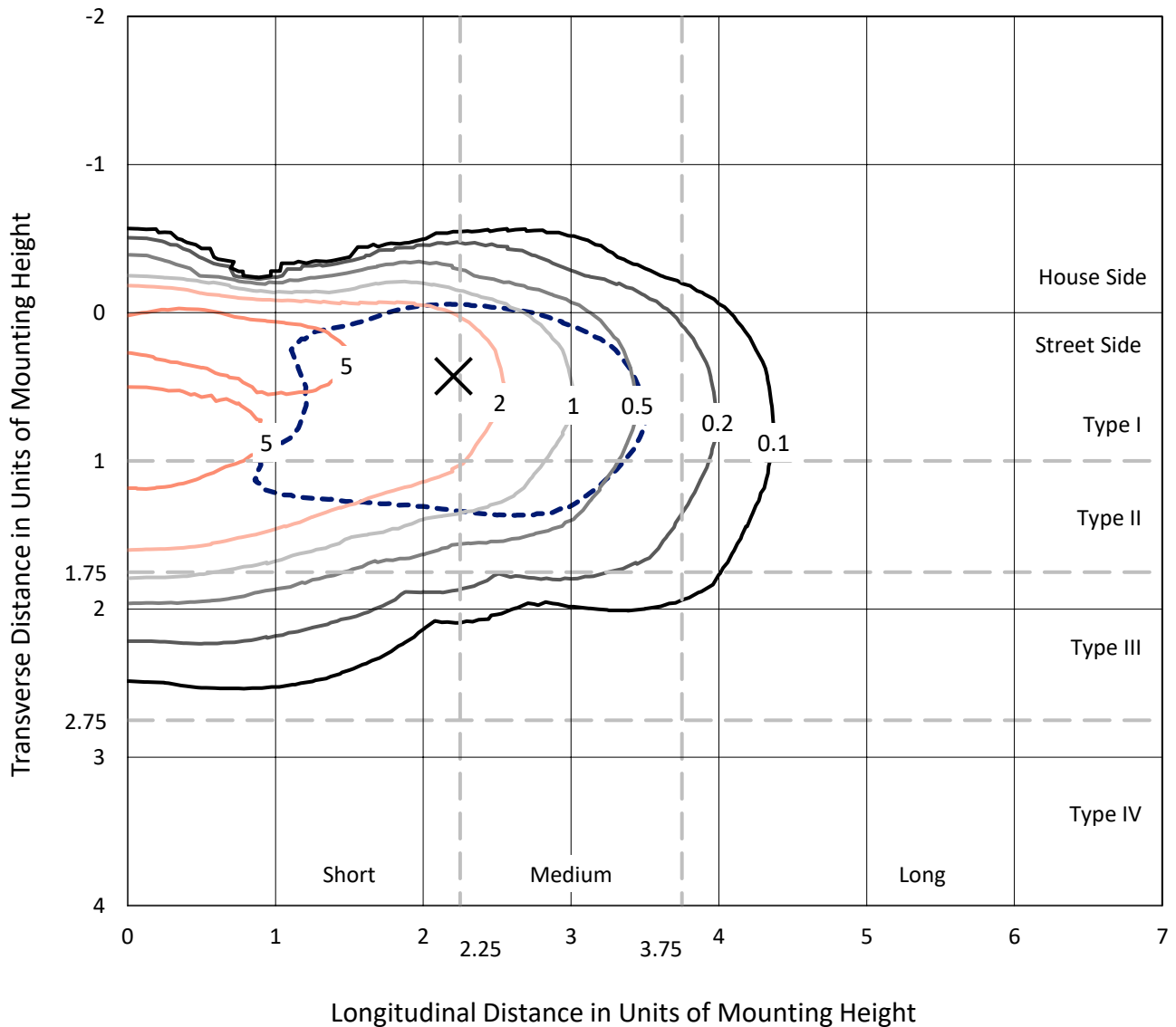
Lumens per Lamp: N/A
Luminaire Lumens: 35128.1 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.5
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

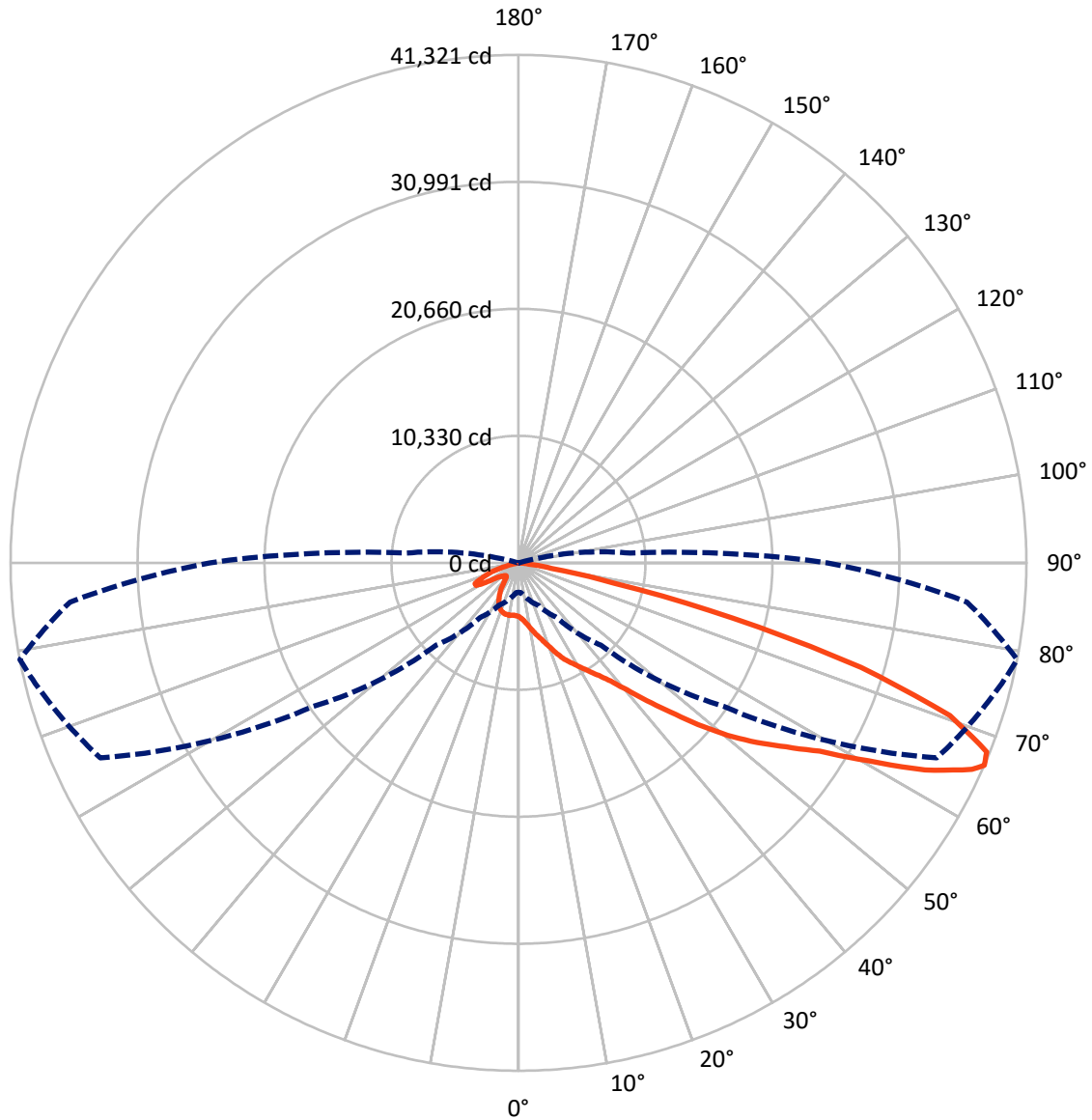
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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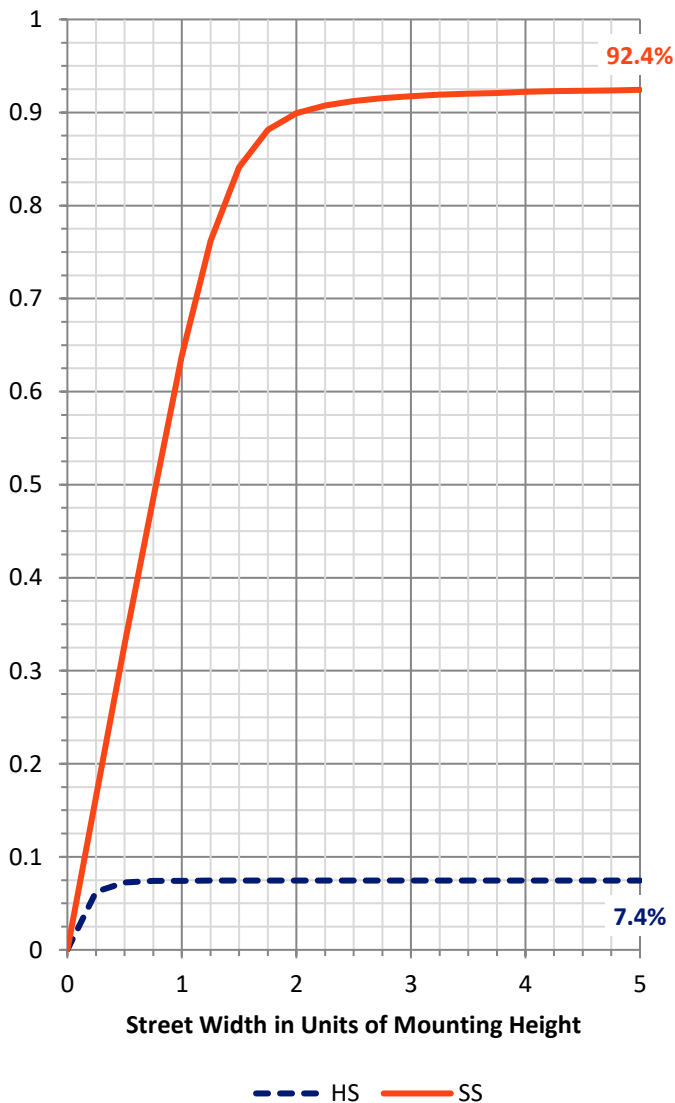
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2637.6	0.0	2637.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	32490.5	0.0	32490.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	35128.1	0.0	35128.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.3	1.2
10°-20°	1137.5	3.2
20°-30°	1889.7	5.4
30°-40°	3245.8	9.2
40°-50°	5880.1	16.7
50°-60°	9294.7	26.5
60°-70°	9458.1	26.9
70°-80°	3606.8	10.3
80°-90°	202.2	0.6
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°	35128.1	100.0
0°-180°	35128.1	100.0

Coefficient of Utilization

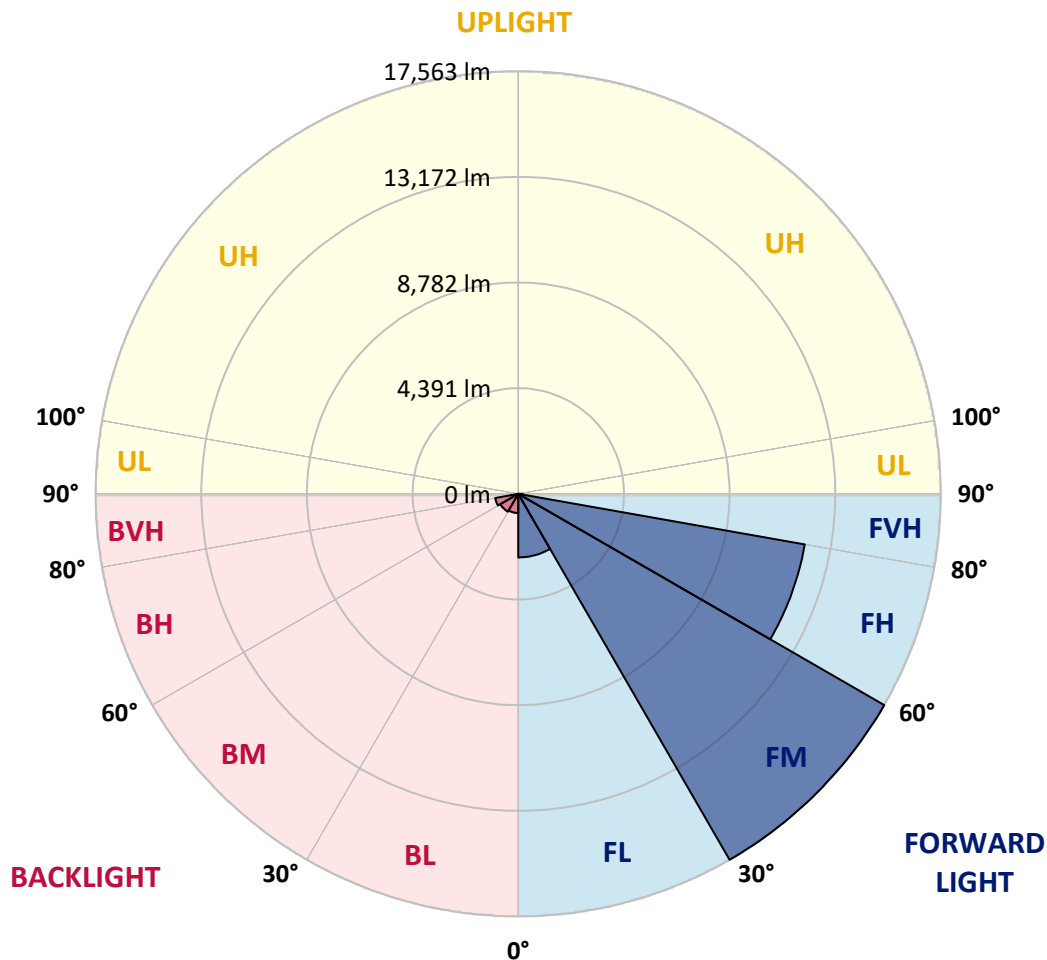


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2642.8	7.5			
FM (30°-60°)	17563.3	50.0			
FH (60°-80°)	12092.5	34.4			G5
FVH (80°-90°)	191.9	0.5			G2/225
BL (0°-30°)	797.7	2.3	B2/1000		
BM (30°-60°)	857.3	2.4	B1/1000		
BH (60°-80°)	972.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4
2.5°	4949.8	4944.4	4922.7	4884.8	4836.1	4819.9	4749.4	4652.0	4597.8	4538.2
5°	5291.0	5263.9	5328.9	5301.8	5312.7	5182.7	5096.0	5025.6	4819.9	4738.6
7.5°	5366.8	5393.9	5388.5	5431.8	5475.1	5523.9	5464.3	5361.4	5155.6	5036.5
10°	5366.8	5356.0	5399.3	5458.9	5583.4	5691.8	5854.2	5718.8	5561.8	5421.0
12.5°	5269.3	5253.1	5296.4	5421.0	5643.0	5865.1	6043.8	6173.7	5951.7	5838.0
15°	4971.5	4955.2	5134.0	5356.0	5648.4	6011.3	6384.9	6596.2	6444.5	6265.8
17.5°	4603.2	4624.9	4814.4	5182.7	5648.4	6081.7	6558.2	7018.6	6996.9	6769.5
20°	4478.7	4494.9	4684.5	4949.8	5480.6	6130.4	6829.0	7478.9	7608.9	7338.1
22.5°	4717.0	4700.7	4717.0	4879.4	5366.8	6087.1	7007.7	8004.2	8237.1	8025.9
25°	5529.3	5518.5	5383.1	5134.0	5301.8	5989.6	7099.8	8350.8	8886.9	8692.0
27.5°	6720.7	6677.4	6466.2	5946.3	5605.1	6049.2	7251.4	8686.6	9455.6	9233.5
30°	7998.8	7895.9	7619.7	6969.8	6390.4	6271.2	7338.1	8935.7	10089.2	9807.6
32.5°	8881.5	9016.9	8930.3	8269.6	7381.4	6785.7	7478.9	9249.8	10674.1	10489.9
35°	10246.2	10403.3	10040.5	9455.6	8562.0	7603.5	7776.7	9504.3	11573.1	11264.4
37.5°	11968.4	12087.5	11827.6	10717.4	9775.1	8610.7	8388.7	10035.0	12347.5	12201.3
40°	12834.9	13408.9	13040.7	12038.8	11026.1	10018.8	9401.4	10657.8	13696.0	13576.8
42.5°	14031.7	14318.7	14129.2	13387.3	12331.2	11524.3	10652.4	11870.9	15331.5	15331.5
45°	15299.0	15309.8	15299.0	14692.4	13755.5	13338.5	12342.1	13392.7	17091.5	17286.5
47.5°	16338.8	16663.7	16636.6	16273.8	15548.1	15391.0	14031.7	15125.7	19301.1	19642.2
50°	16874.9	17237.7	17346.0	17535.6	17503.1	17833.5	15878.4	17134.8	21207.3	22046.8
52.5°	16728.7	16755.8	17421.9	18169.2	19360.6	20286.7	18104.2	19414.8	23438.6	24267.1
55°	15531.8	15428.9	16799.1	17654.7	20118.8	21786.8	21185.7	22258.0	25177.0	26438.8
57.5°	12905.3	12932.4	14199.6	15938.0	19555.6	22382.5	24478.3	25973.0	27614.0	28886.6
60°	8908.6	8876.1	10295.0	12304.2	16246.7	21272.3	26373.8	30787.5	30874.1	32677.5
62.5°	5009.4	5020.2	6097.9	7814.7	11367.3	17384.0	26281.7	35899.8	35531.5	37112.9
65°	2837.8	2908.2	3650.1	4630.3	6807.4	11670.5	22604.6	37936.0	39122.0	40530.1
66°	2399.1	2447.8	3081.5	3823.4	5431.8	9466.4	20346.3	37540.7	40248.5	41320.7
67.5°	1857.5	1922.5	2453.3	3032.7	3985.9	6552.8	16376.7	35574.8	40454.3	41082.5
70°	1272.7	1316.0	1722.1	2301.6	2724.0	3352.2	9791.3	29411.9	36706.7	37237.4
72.5°	893.6	915.2	1207.7	1743.8	2095.8	1917.1	4857.8	20925.7	28090.5	29124.9
75°	644.5	666.1	828.6	1251.0	1635.5	1256.4	2225.8	13365.6	17226.9	18039.2
77.5°	465.7	492.8	563.2	806.9	1186.0	882.7	1093.9	6980.7	8123.3	7982.5
80°	281.6	308.7	417.0	519.9	866.5	622.8	601.1	2913.6	2881.1	2734.9
82.5°	130.0	151.6	222.0	352.0	606.5	433.2	287.0	1039.8	909.8	834.0
85°	37.9	48.7	130.0	265.4	308.7	211.2	173.3	357.4	373.7	319.5
87.5°	0.0	5.4	59.6	65.0	92.1	70.4	65.0	92.1	173.3	140.8
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°
4370.4	0°	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4	4370.4
4511.2	2.5°	4413.7	4375.8	4283.7	4142.9	4018.3	3953.4	3861.3	3780.1	3736.7	3731.3
4608.6	5°	4522.0	4419.1	4197.1	3942.5	3753.0	3547.2	3406.4	3303.5	3206.0	3113.9
4895.7	7.5°	4668.2	4505.7	4142.9	3812.6	3401.0	3135.6	2886.5	2740.3	2653.6	2572.4
5166.4	10°	4895.7	4689.9	4105.0	3509.3	3038.1	2648.2	2393.7	2182.5	2063.3	1922.5
5507.6	12.5°	5204.4	4836.1	3964.2	3233.1	2626.5	2215.0	1852.1	1510.9	1321.4	1175.2
5897.5	15°	5513.0	5031.1	3834.2	2897.3	2252.9	1711.3	1180.6	947.7	893.6	861.1
6384.9	17.5°	5816.3	5188.1	3633.8	2556.1	1825.0	1088.5	861.1	812.3	785.3	752.8
6834.4	20°	6184.6	5291.0	3384.7	2242.0	1256.4	806.9	736.5	704.0	660.7	617.4
7424.7	22.5°	6542.0	5377.7	3097.7	1841.3	844.8	698.6	617.4	574.0	536.1	492.8
7901.3	25°	6899.4	5404.7	2724.0	1321.4	682.4	557.8	482.0	422.4	384.5	346.6
8329.1	27.5°	7143.1	5236.8	2372.0	844.8	547.0	422.4	335.8	287.0	254.5	216.6
8702.8	30°	7283.9	4928.2	1992.9	595.7	411.6	287.0	200.4	151.6	119.1	92.1
9341.8	32.5°	7424.7	4679.0	1565.1	454.9	270.8	151.6	75.8	27.1	0.0	0.0
9937.6	35°	7706.3	4397.4	1050.6	254.5	92.1	5.4	0.0	0.0	0.0	0.0
10701.2	37.5°	7885.1	4007.5	482.0	37.9	0.0	0.0	0.0	0.0	0.0	0.0
11757.2	40°	8334.6	3812.6	119.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13186.9	42.5°	9065.7	3677.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14898.2	45°	9867.2	3623.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16566.2	47.5°	10934.0	3769.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18710.8	50°	12060.5	4164.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20367.9	52.5°	13295.2	4538.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22079.3	55°	14372.9	4987.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24483.8	57.5°	16355.0	6049.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28800.0	60°	19913.0	8134.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33706.5	62.5°	23920.5	9683.0	59.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36685.0	65°	25388.2	9645.1	102.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
36625.5	66°	25128.2	9114.4	102.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
35591.1	67.5°	23779.7	8096.3	92.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0
30933.7	70°	20422.1	6688.2	92.1	16.2	0.0	0.0	0.0	0.0	0.0	0.0
24061.3	72.5°	15569.7	5209.8	86.6	21.7	5.4	0.0	0.0	0.0	0.0	0.0
14492.0	75°	9396.0	2772.8	70.4	27.1	10.8	0.0	0.0	0.0	0.0	0.0
6233.3	77.5°	3742.2	974.8	54.2	21.7	10.8	0.0	0.0	0.0	0.0	0.0
1960.4	80°	1012.7	292.4	32.5	21.7	16.2	5.4	0.0	0.0	0.0	0.0
552.4	82.5°	265.4	108.3	27.1	21.7	10.8	5.4	0.0	0.0	0.0	0.0
184.1	85°	102.9	43.3	21.7	16.2	16.2	10.8	5.4	0.0	0.0	0.0
59.6	87.5°	32.5	16.2	16.2	10.8	10.8	5.4	5.4	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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