

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: P575305

Luminaire Tested: **EPH-VN-07-750-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575305
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-750-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

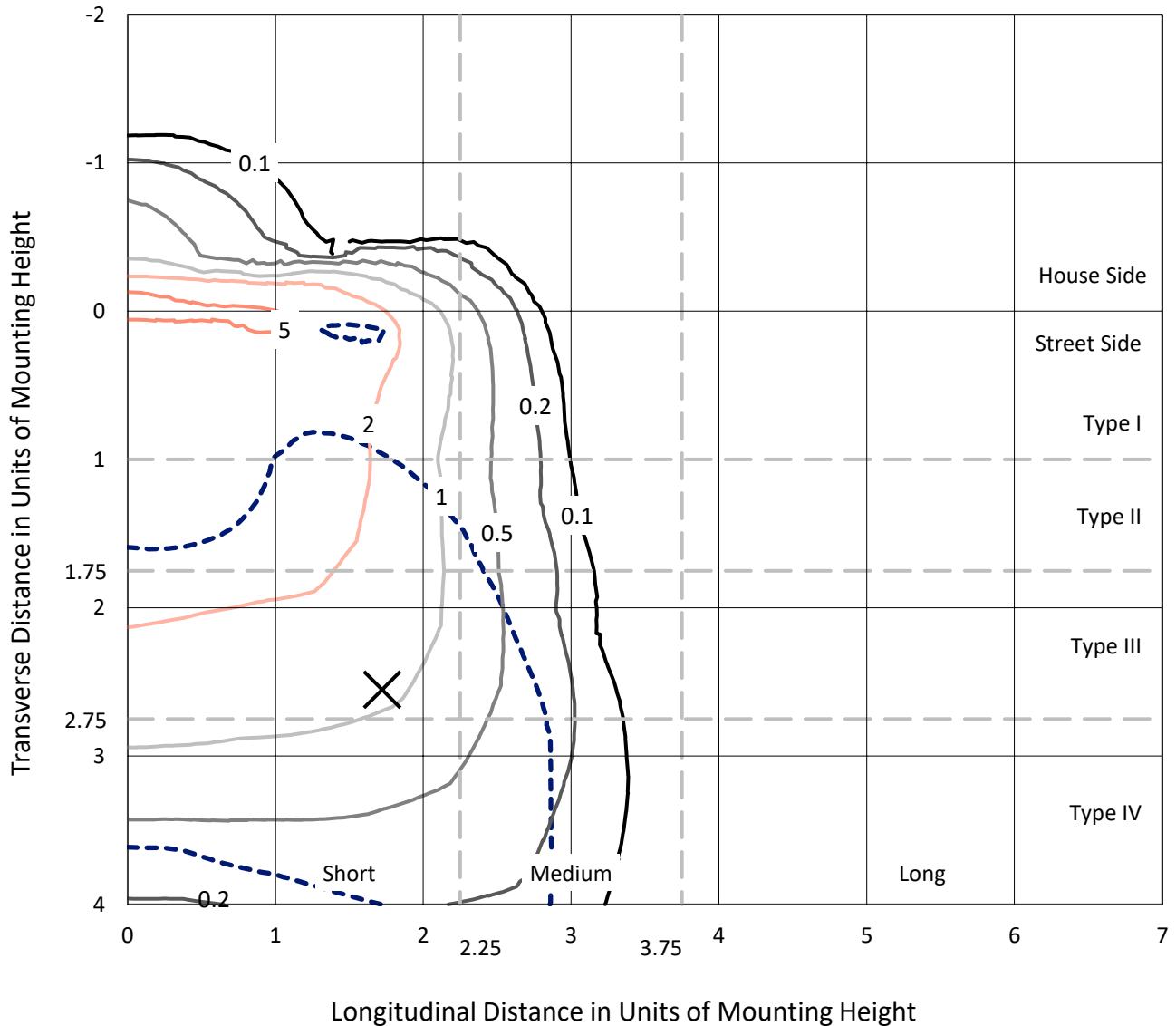
Lumens per Lamp: N/A
Luminaire Lumens: 36079.7 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

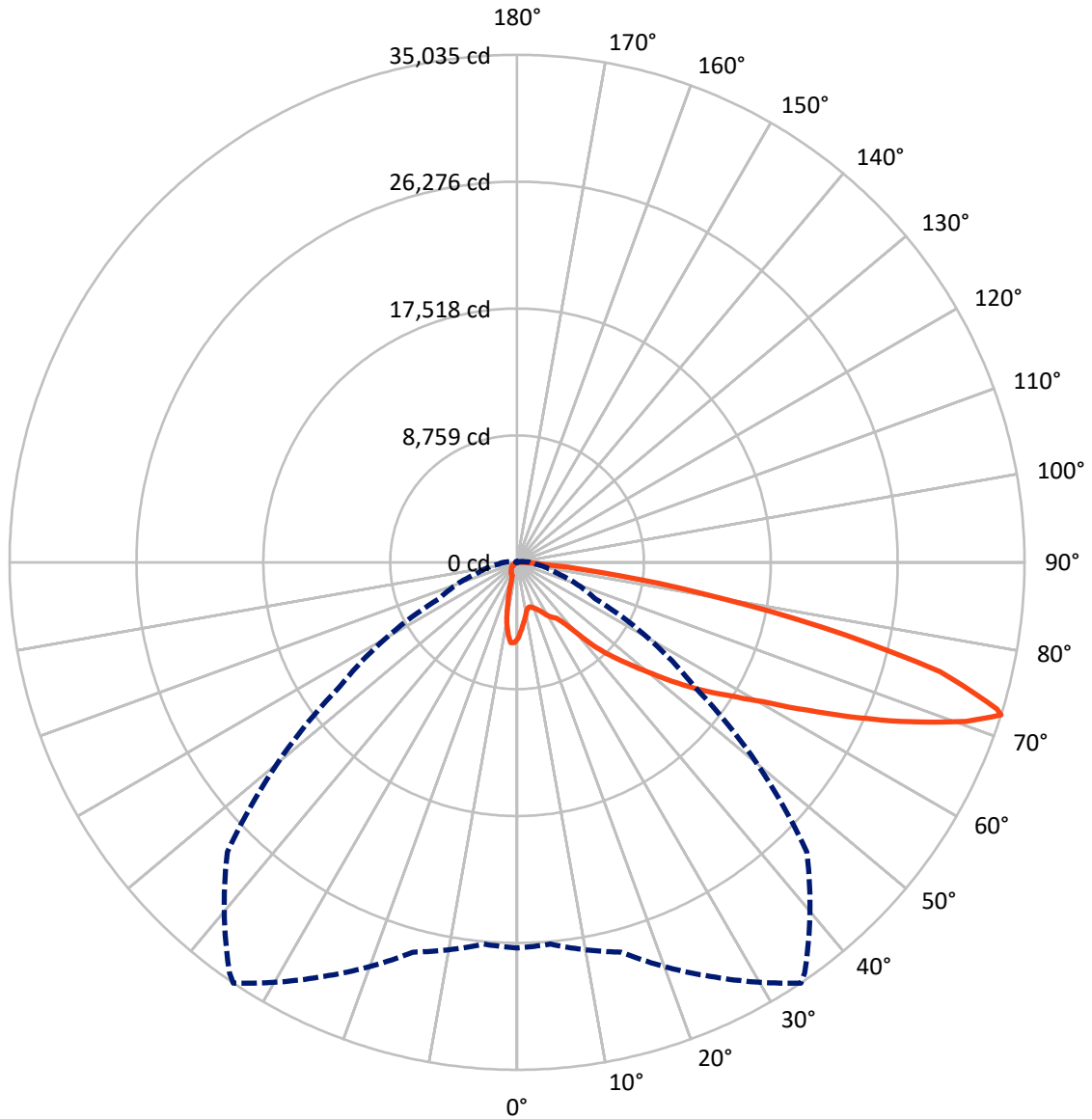
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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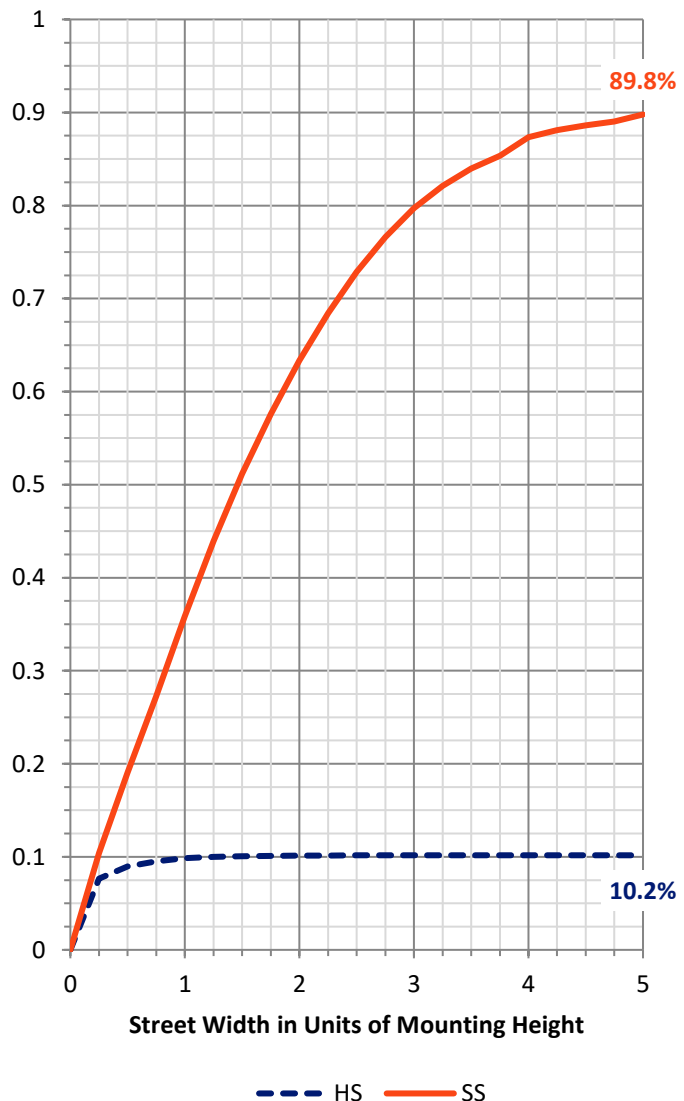
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3693.7	0.0	3693.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	32386.0	0.0	32386.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	36079.7	0.0	36079.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.2	1.3
10°-20°	1037.4	2.9
20°-30°	1565.8	4.3
30°-40°	2541.1	7.0
40°-50°	4778.3	13.2
50°-60°	7812.7	21.7
60°-70°	10385.8	28.8
70°-80°	6955.3	19.3
80°-90°	545.1	1.5
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°	36079.7	100.0
0°-180°	36079.7	100.0

Coefficient of Utilization



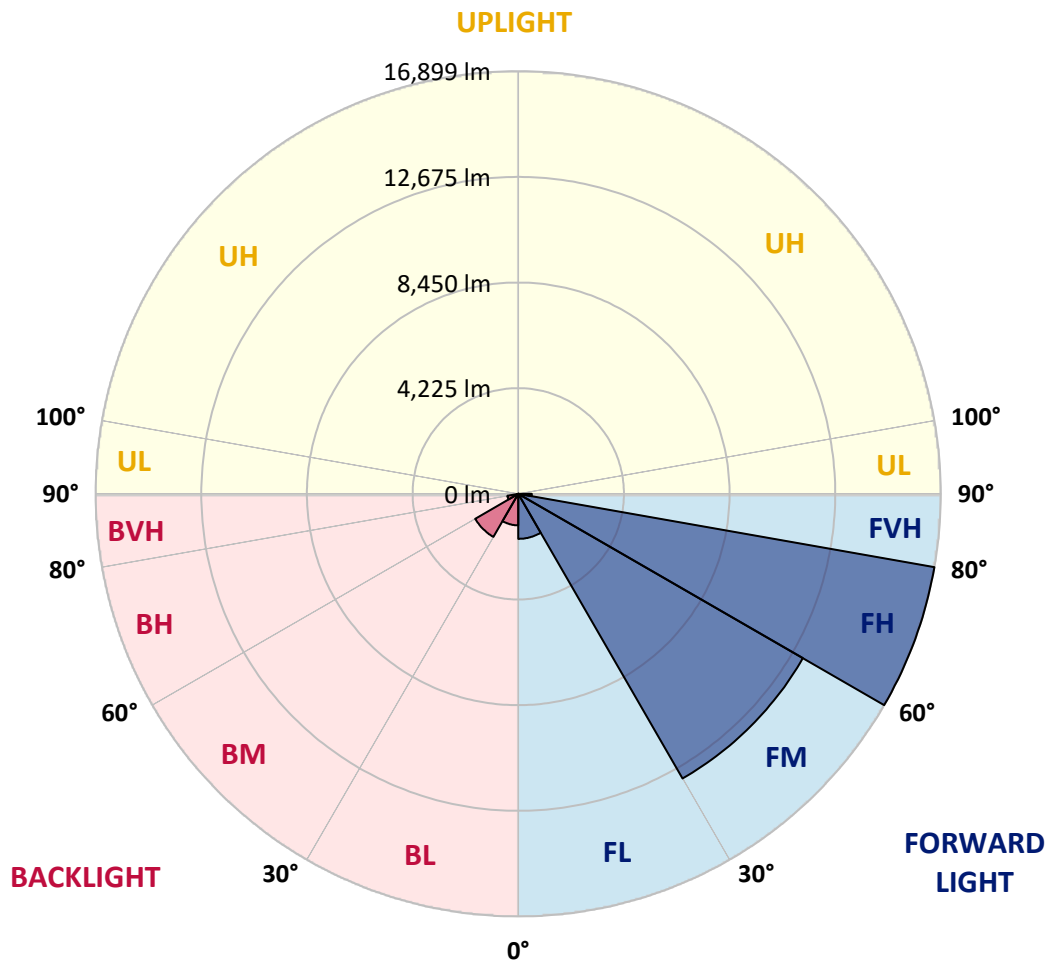
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.2	5.0			
FM (30°-60°)	13143.8	36.4			
FH (60°-80°)	16899.4	46.8			G5
FVH (80°-90°)	541.6	1.5			G4/750
BL (0°-30°)	1260.3	3.5	B3/2500		
BM (30°-60°)	1988.3	5.5	B2/2500		
BH (60°-80°)	441.7	1.2	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5
2.5°	4668.2	4657.8	4689.1	4741.3	4793.4	4772.5	4871.7	4976.0	5049.0	5148.1
5°	4078.8	4104.9	4136.2	4240.5	4308.3	4324.0	4506.5	4642.2	4866.4	5095.9
7.5°	3541.6	3572.9	3635.5	3750.2	3891.1	3927.6	4110.1	4381.4	4673.4	4976.0
10°	3150.4	3181.7	3249.5	3322.5	3510.3	3510.3	3760.7	4136.2	4517.0	4871.7
12.5°	3066.9	3082.6	3077.4	3134.8	3254.7	3280.8	3525.9	3938.0	4381.4	4835.1
15°	3166.1	3176.5	3124.3	3093.0	3197.3	3223.4	3452.9	3818.0	4292.7	4856.0
17.5°	3364.3	3327.7	3223.4	3176.5	3265.2	3280.8	3494.7	3812.8	4282.3	4913.4
20°	3479.0	3520.7	3338.2	3249.5	3374.7	3395.6	3625.1	3896.3	4334.4	5012.5
22.5°	3682.4	3703.3	3458.1	3400.8	3520.7	3520.7	3781.5	4063.2	4459.6	5174.2
25°	3969.3	3943.2	3656.3	3599.0	3713.7	3760.7	4021.5	4329.2	4652.6	5325.4
27.5°	4193.6	4209.2	3974.5	3823.3	4016.2	4047.5	4329.2	4616.1	4798.6	5450.6
30°	4527.4	4496.1	4245.7	4073.6	4313.5	4318.8	4590.0	4887.3	5080.3	5674.9
32.5°	4923.8	4861.2	4574.3	4329.2	4522.2	4569.1	4845.6	5278.5	5518.4	6097.4
35°	5763.6	5612.3	5142.9	4762.1	4777.8	4798.6	5226.3	5847.0	6123.5	6634.6
37.5°	6989.3	6926.7	6394.7	5669.7	5393.2	5330.7	5810.5	6598.1	6942.4	7344.0
40°	8204.6	8115.9	7620.4	7072.8	6572.0	6446.9	6686.8	7594.4	7907.3	8329.8
42.5°	9555.5	9399.1	8814.9	8371.5	8058.6	7923.0	7829.1	8846.2	9200.8	9487.7
45°	10922.1	10666.5	9821.5	9482.5	9315.6	9242.6	9232.1	10421.4	10635.2	10692.6
47.5°	12121.8	11845.3	11078.6	10697.8	10572.6	10551.8	11135.9	12236.5	12069.6	11918.3
50°	13045.0	12867.6	12314.7	12179.1	12085.2	12048.7	13415.3	14103.8	13331.8	13065.8
52.5°	14474.1	14077.7	13451.8	13498.7	13827.4	13832.6	15725.9	15877.2	14380.2	13853.4
55°	15616.4	15355.6	14844.5	14776.6	15642.5	15736.4	17796.7	17222.9	14964.4	14604.5
57.5°	16962.1	16842.1	16471.8	16482.2	17389.8	17588.0	19637.9	18360.0	15449.5	15089.6
60°	18907.6	18563.4	18370.4	18459.1	19528.3	19721.3	21421.7	19178.9	15684.2	15407.8
62.5°	21056.6	20655.0	20446.3	20900.1	22459.7	22491.0	22777.8	19903.9	15538.2	15491.2
65°	23643.7	23247.3	23080.4	23993.1	25844.8	25730.0	24681.6	20211.6	15074.0	14651.5
67.5°	26220.3	25980.4	25636.1	27091.4	29396.8	29396.8	26658.5	20096.9	13858.6	11761.9
70°	27440.9	27607.8	28155.4	30440.0	32886.3	32635.9	28609.2	18777.2	10317.1	6316.5
72°	26627.2	26455.0	27868.6	31535.3	35035.2	34623.1	28280.6	14927.9	5961.8	2769.6
72.5°	25229.3	25391.0	27336.5	31384.1	34633.6	34972.6	27477.4	13770.0	4902.9	2206.3
75°	15470.4	15746.8	20404.6	26648.0	30179.2	29798.4	21254.8	6561.6	1882.9	938.9
77.5°	5648.8	5878.3	9899.8	16769.1	21463.4	21223.5	12299.1	2331.5	1022.3	698.9
80°	1470.9	1590.8	3364.3	7735.2	12622.5	12638.1	5148.1	933.6	693.7	573.7
82.5°	292.1	323.4	1032.7	3009.6	5899.2	5820.9	1627.4	500.7	521.6	469.4
85°	36.5	46.9	219.1	1022.3	1909.0	1710.8	401.6	250.4	386.0	365.1
87.5°	5.2	5.2	52.2	234.7	401.6	391.2	83.5	78.2	172.1	224.3
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°
5278.5	0°	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5	5278.5
5268.1	2.5°	5335.9	5356.7	5429.8	5492.3	5565.4	5586.2	5554.9	5607.1	5534.1	5575.8
5309.8	5°	5346.3	5466.3	5601.9	5690.5	5669.7	5617.5	5575.8	5435.0	5335.9	5299.4
5325.4	7.5°	5419.3	5554.9	5701.0	5701.0	5586.2	5315.0	5054.2	4803.8	4595.2	4490.9
5330.7	10°	5513.2	5654.0	5805.3	5607.1	5179.4	4683.9	4313.5	3844.1	3525.9	3359.0
5414.1	12.5°	5638.4	5836.6	5888.8	5429.8	4720.4	3984.9	3312.1	2660.1	2357.6	2117.7
5549.7	15°	5800.1	5993.1	5836.6	5043.8	4136.2	3051.3	2242.8	1622.1	1382.2	1257.0
5706.2	17.5°	6013.9	6160.0	5820.9	4689.1	3348.6	2086.4	1377.0	1095.3	1043.2	1022.3
5925.3	20°	6264.3	6373.8	5669.7	4136.2	2488.0	1340.5	1011.9	980.6	985.8	975.4
6186.1	22.5°	6546.0	6582.5	5497.6	3494.7	1684.7	991.0	944.1	949.3	954.5	944.1
6426.0	25°	6843.3	6744.2	5247.2	2743.6	1121.4	902.4	912.8	923.2	928.4	933.6
6718.1	27.5°	7177.1	6978.9	4897.7	2008.1	876.3	850.2	881.5	912.8	918.0	918.0
7156.2	30°	7667.4	7338.8	4558.7	1361.3	772.0	792.8	845.0	881.5	907.6	907.6
7834.3	32.5°	8288.1	7714.3	4084.0	928.4	714.6	725.0	766.7	839.8	897.1	902.4
8741.8	35°	9148.7	8168.1	3588.5	740.7	672.9	678.1	704.1	761.5	860.6	891.9
9920.6	37.5°	10056.3	8684.5	2973.1	667.6	641.6	636.3	652.0	698.9	787.6	865.8
11130.7	40°	11021.2	9226.9	2326.3	631.1	615.5	605.0	610.3	631.1	698.9	798.0
12314.7	42.5°	11928.8	9717.2	1747.3	594.6	589.4	579.0	579.0	584.2	620.7	688.5
13629.1	45°	12909.4	10118.8	1330.1	568.5	552.9	558.1	537.2	526.8	552.9	558.1
15094.8	47.5°	13827.4	10520.5	1064.0	537.2	521.6	521.6	495.5	474.6	474.6	427.7
16383.1	50°	14688.0	10739.5	850.2	495.5	490.3	485.1	448.6	412.1	380.8	323.4
17598.4	52.5°	15402.6	10729.1	657.2	443.4	459.0	443.4	386.0	333.8	286.9	234.7
18047.0	55°	15616.4	10228.4	495.5	365.1	391.2	370.3	307.7	260.8	208.6	166.9
18114.8	57.5°	15433.8	9466.9	375.5	281.7	302.5	281.7	234.7	193.0	146.0	114.7
17947.9	60°	14823.6	8574.9	292.1	219.1	229.5	213.9	177.3	146.0	104.3	73.0
16873.4	62.5°	13665.7	7458.7	224.3	172.1	166.9	166.9	135.6	109.5	73.0	41.7
14051.6	65°	11214.2	5815.7	172.1	120.0	120.0	120.0	104.3	78.2	46.9	20.9
9190.4	67.5°	7041.5	3385.1	140.8	93.9	88.7	88.7	73.0	52.2	26.1	5.2
3614.6	70°	2649.7	1241.4	109.5	73.0	67.8	67.8	52.2	31.3	15.6	0.0
1257.0	72°	912.8	474.6	88.7	52.2	52.2	46.9	36.5	26.1	10.4	0.0
949.3	72.5°	751.1	380.8	83.5	52.2	46.9	46.9	36.5	26.1	10.4	0.0
339.0	75°	271.2	156.5	57.4	36.5	31.3	31.3	26.1	15.6	5.2	0.0
172.1	77.5°	135.6	99.1	46.9	31.3	26.1	15.6	15.6	10.4	5.2	0.0
104.3	80°	83.5	62.6	26.1	20.9	15.6	10.4	5.2	5.2	0.0	0.0
73.0	82.5°	57.4	36.5	15.6	15.6	10.4	5.2	0.0	0.0	0.0	0.0
46.9	85°	36.5	15.6	10.4	10.4	5.2	0.0	0.0	0.0	0.0	0.0
26.1	87.5°	15.6	10.4	5.2	0.0	0.0	0.0	0.0	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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180°
5278.5
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5377.6
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933.6
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902.4
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886.7
871.1
818.9
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