

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: P575293

Luminaire Tested: **EPH-VN-07-735-U-T4FT-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575293  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-735-U-T4FT-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

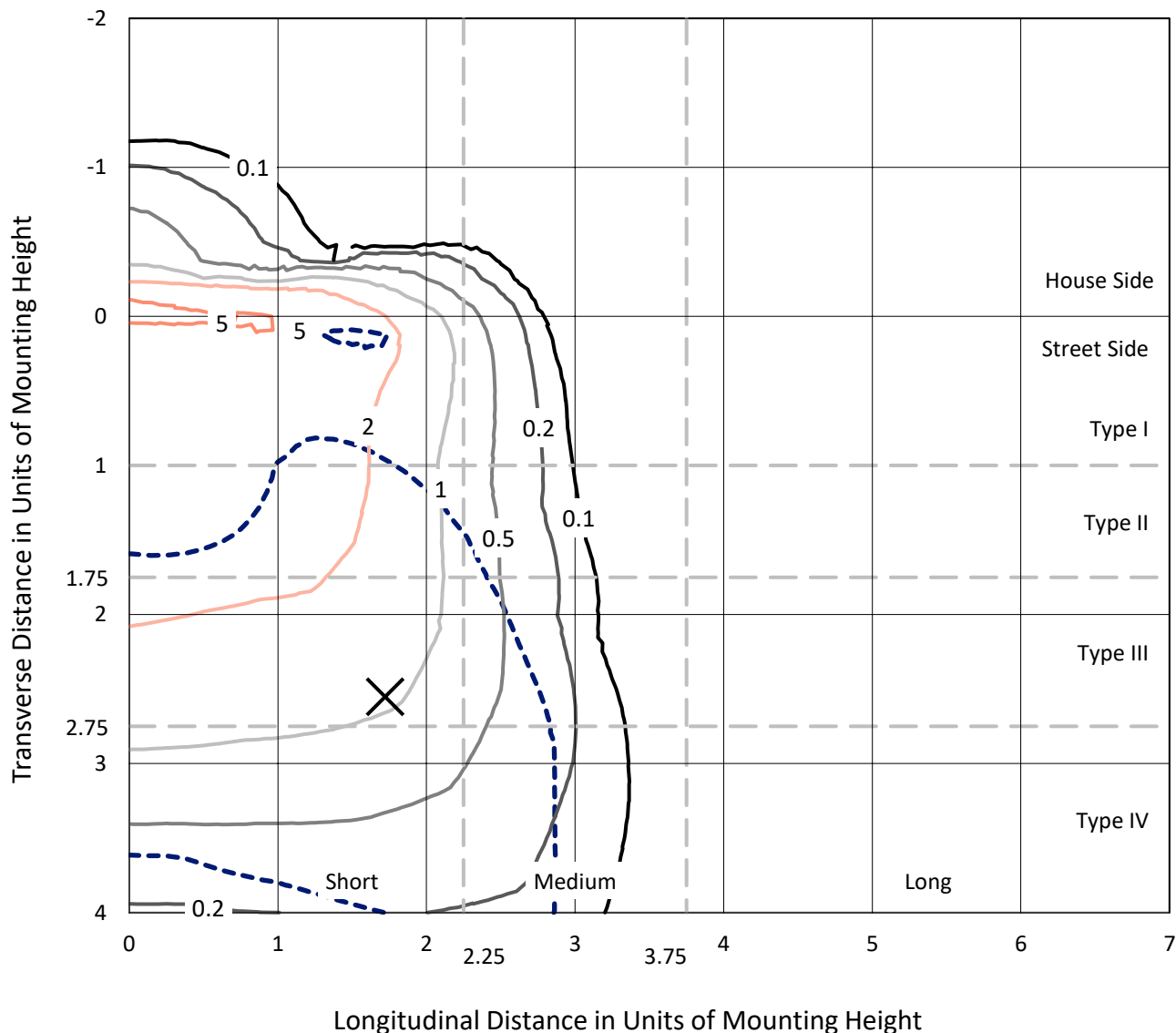
Lumens per Lamp: N/A  
Luminaire Lumens: 34788.8 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P575293  
 CATALOG NUMBER: EPH-VN-07-735-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

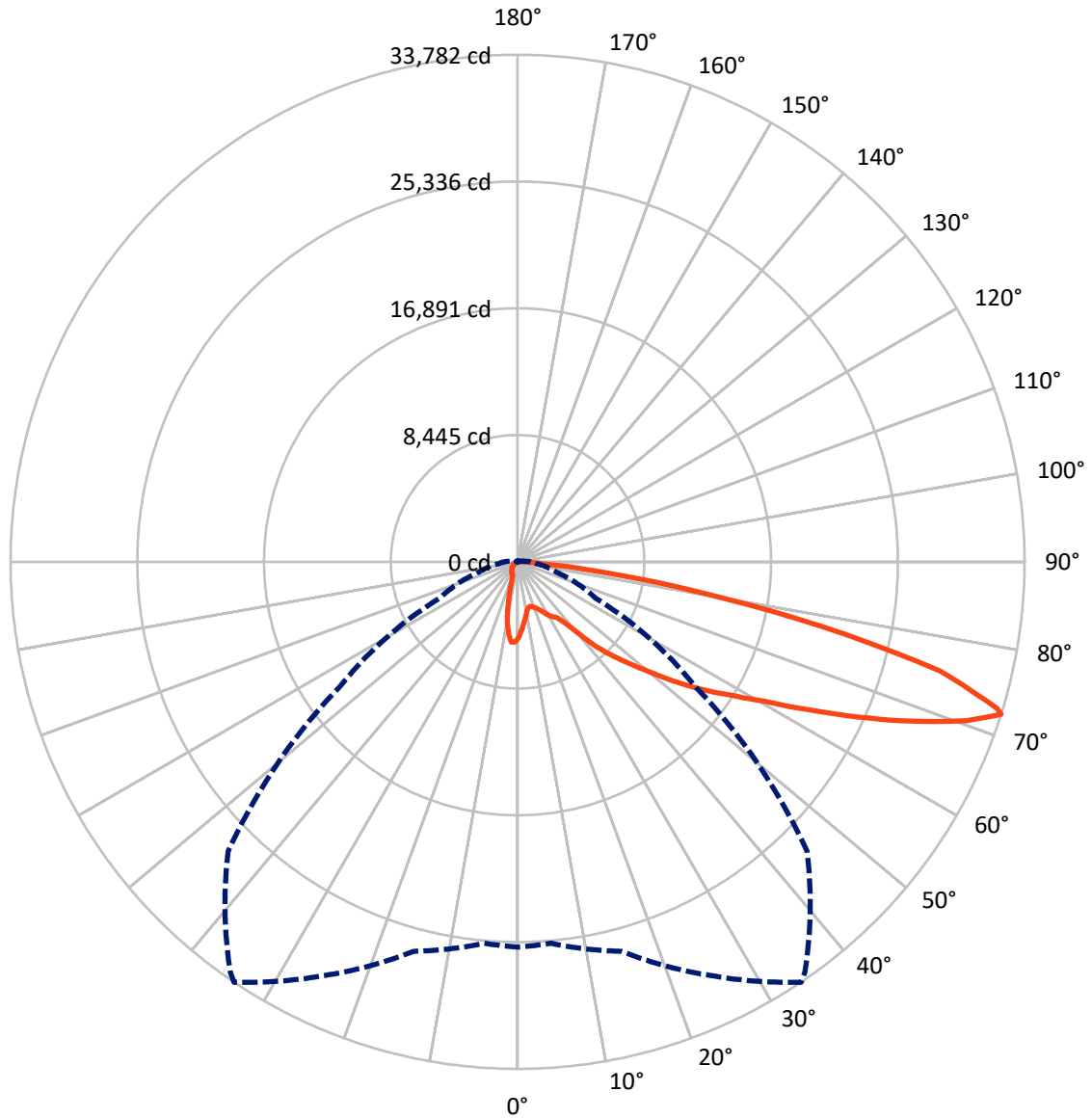
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P575293  
CATALOG NUMBER: EPH-VN-07-735-U-T4FT-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P575293  
 CATALOG NUMBER: EPH-VN-07-735-U-T4FT-HSS

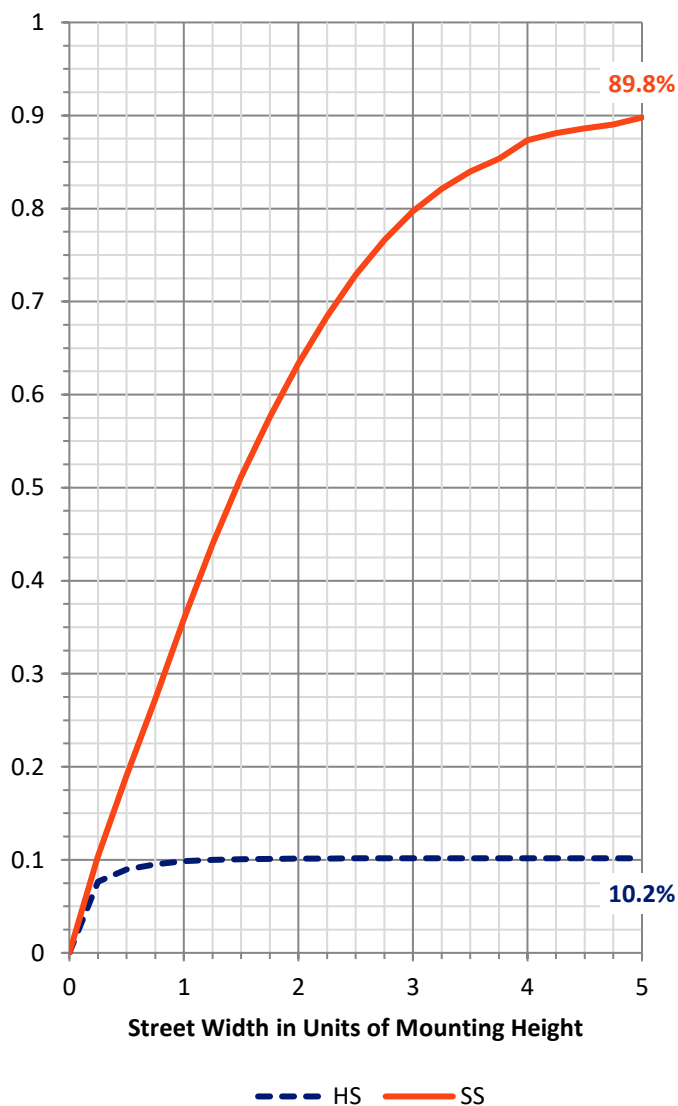
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3561.6	0.0	3561.6
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	31227.2	0.0	31227.2
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	34788.8	0.0	34788.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.8	1.3
10°-20°	1000.3	2.9
20°-30°	1509.8	4.3
30°-40°	2450.1	7.0
40°-50°	4607.4	13.2
50°-60°	7533.1	21.7
60°-70°	10014.2	28.8
70°-80°	6706.4	19.3
80°-90°	525.6	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°	34788.8	100.0
0°-180°	34788.8	100.0

**Coefficient of Utilization**



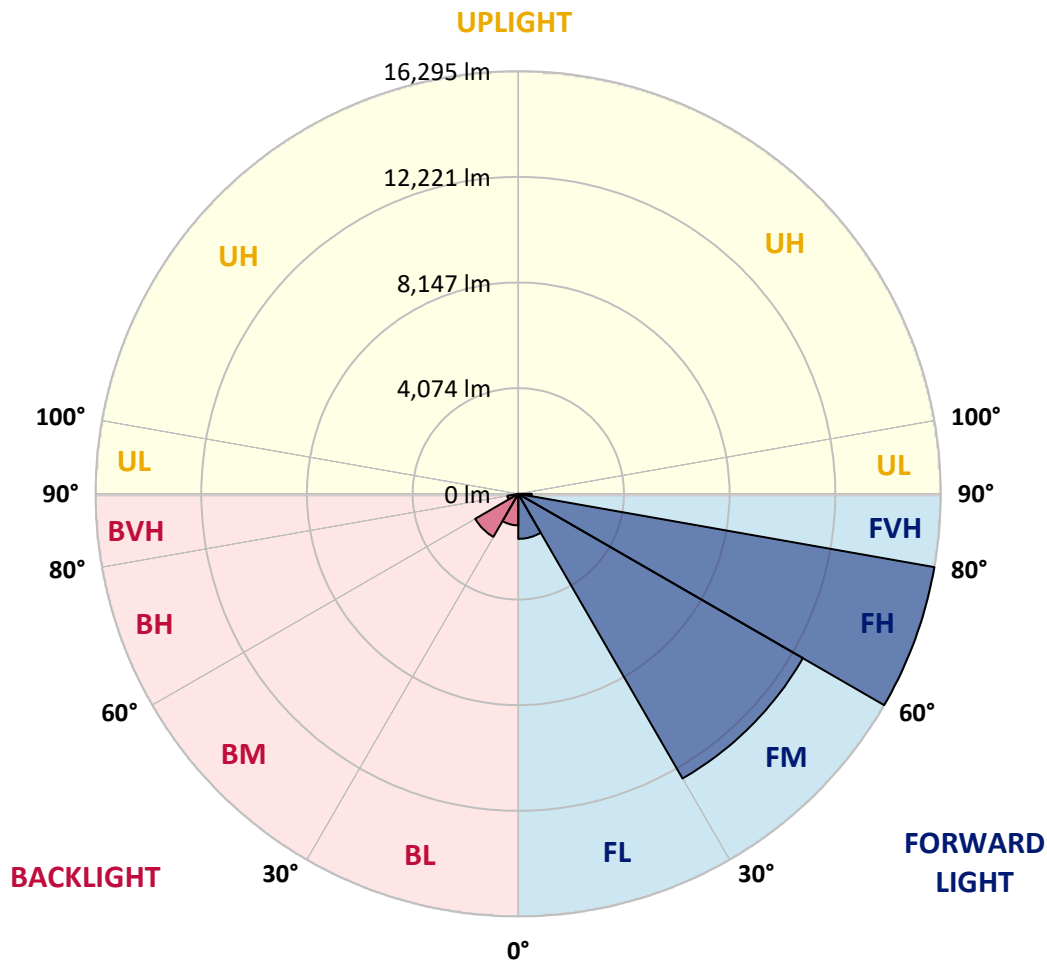
REPORT NUMBER: P575293  
 CATALOG NUMBER: EPH-VN-07-735-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.7	5.0			
FM (30°-60°)	12673.5	36.4			
FH (60°-80°)	16294.8	46.8			G5
FVH (80°-90°)	522.2	1.5			G4/750
BL (0°-30°)	1215.2	3.5	B3/2500		
BM (30°-60°)	1917.1	5.5	B2/2500		
BH (60°-80°)	425.9	1.2	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P575293  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6
2.5°	4501.2	4491.1	4521.3	4571.6	4621.9	4601.8	4697.3	4797.9	4868.3	4963.9
5°	3932.9	3958.0	3988.2	4088.8	4154.2	4169.3	4345.3	4476.1	4692.3	4913.6
7.5°	3414.9	3445.1	3505.4	3616.0	3751.8	3787.0	3963.1	4224.6	4506.2	4797.9
10°	3037.7	3067.9	3133.2	3203.6	3384.7	3384.7	3626.1	3988.2	4355.3	4697.3
12.5°	2957.2	2972.3	2967.3	3022.6	3138.3	3163.4	3399.8	3797.1	4224.6	4662.1
15°	3052.8	3062.8	3012.5	2982.4	3082.9	3108.1	3329.4	3681.4	4139.1	4682.3
17.5°	3243.9	3208.7	3108.1	3062.8	3148.3	3163.4	3369.6	3676.4	4129.0	4737.6
20°	3354.5	3394.8	3218.7	3133.2	3253.9	3274.1	3495.3	3756.9	4179.3	4833.1
22.5°	3550.7	3570.8	3334.4	3279.1	3394.8	3394.8	3646.2	3917.8	4300.0	4989.0
25°	3827.3	3802.1	3525.5	3470.2	3580.8	3626.1	3877.6	4174.3	4486.1	5134.9
27.5°	4043.5	4058.6	3832.3	3686.5	3872.5	3902.7	4174.3	4450.9	4626.9	5255.6
30°	4365.4	4335.2	4093.8	3927.9	4159.2	4164.2	4425.8	4712.4	4898.5	5471.8
32.5°	4747.6	4687.3	4410.7	4174.3	4360.4	4405.6	4672.2	5089.6	5321.0	5879.2
35°	5557.3	5411.5	4958.9	4591.7	4606.8	4626.9	5039.3	5637.8	5904.4	6397.2
37.5°	6739.2	6678.9	6165.9	5466.8	5200.3	5139.9	5602.6	6362.0	6694.0	7081.2
40°	7911.0	7825.5	7347.8	6819.7	6336.9	6216.2	6447.5	7322.6	7624.4	8031.7
42.5°	9213.6	9062.7	8499.5	8072.0	7770.2	7639.5	7548.9	8529.6	8871.6	9148.2
45°	10531.3	10284.9	9470.1	9143.2	8982.3	8911.9	8901.8	10048.5	10254.7	10310.0
47.5°	11688.0	11421.5	10682.2	10315.0	10194.3	10174.2	10737.5	11798.7	11637.7	11491.9
50°	12578.2	12407.2	11874.1	11743.4	11652.8	11617.6	12935.3	13599.2	12854.8	12598.3
52.5°	13956.2	13574.0	12970.5	13015.8	13332.6	13337.6	15163.3	15309.1	13865.7	13357.7
55°	15057.6	14806.2	14313.3	14247.9	15082.8	15173.3	17159.9	16606.7	14429.0	14082.0
57.5°	16355.2	16239.5	15882.4	15892.5	16767.6	16958.7	18935.2	17703.0	14896.7	14549.7
60°	18231.1	17899.2	17713.1	17798.6	18829.6	19015.7	20655.2	18492.6	15123.0	14856.5
62.5°	20303.2	19915.9	19714.7	20152.3	21656.0	21686.2	21962.8	19191.7	14982.2	14936.9
65°	22797.7	22415.5	22254.5	23134.7	24920.0	24809.4	23798.5	19488.4	14534.6	14127.2
67.5°	25282.2	25050.8	24718.9	26122.0	28345.0	28345.0	25704.6	19377.8	13362.8	11341.0
70°	26459.0	26619.9	27148.0	29350.8	31709.6	31468.2	27585.6	18105.4	9947.9	6090.4
72°	25674.4	25508.5	26871.4	30407.0	33781.6	33384.3	27268.7	14393.8	5748.5	2670.5
72.5°	24326.6	24482.5	26358.4	30261.1	33394.4	33721.3	26494.2	13277.3	4727.5	2127.4
75°	14916.8	15183.4	19674.5	25694.6	29099.4	28732.2	20494.3	6326.8	1815.6	905.3
77.5°	5446.7	5668.0	9545.6	16169.1	20695.5	20464.1	11859.0	2248.1	985.7	673.9
80°	1418.3	1533.9	3243.9	7458.4	12170.8	12185.9	4963.9	900.2	668.9	553.2
82.5°	281.6	311.8	995.8	2901.9	5688.1	5612.7	1569.1	482.8	502.9	452.6
85°	35.2	45.3	211.2	985.7	1840.7	1649.6	387.3	241.4	372.2	352.0
87.5°	5.0	5.0	50.3	226.3	387.3	377.2	80.5	75.4	166.0	216.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575293

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5089.6	0°	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6
5079.6	2.5°	5144.9	5165.1	5235.5	5295.8	5366.2	5386.4	5356.2	5406.5	5336.1	5376.3
5119.8	5°	5155.0	5270.7	5401.4	5486.9	5466.8	5416.5	5376.3	5240.5	5144.9	5109.7
5134.9	7.5°	5225.4	5356.2	5497.0	5497.0	5386.4	5124.8	4873.4	4632.0	4430.8	4330.2
5139.9	10°	5315.9	5451.7	5597.6	5406.5	4994.1	4516.3	4159.2	3706.6	3399.8	3238.9
5220.4	12.5°	5436.6	5627.8	5678.0	5235.5	4551.5	3842.4	3193.6	2564.9	2273.2	2041.9
5351.1	15°	5592.6	5778.6	5627.8	4863.3	3988.2	2942.1	2162.6	1564.1	1332.8	1212.1
5502.0	17.5°	5798.8	5939.6	5612.7	4521.3	3228.8	2011.7	1327.7	1056.1	1005.9	985.7
5713.3	20°	6040.2	6145.8	5466.8	3988.2	2399.0	1292.5	975.7	945.5	950.5	940.5
5964.7	22.5°	6311.7	6346.9	5300.9	3369.6	1624.5	955.6	910.3	915.3	920.4	910.3
6196.1	25°	6598.4	6502.8	5059.4	2645.4	1081.3	870.1	880.1	890.2	895.2	900.2
6477.7	27.5°	6920.3	6729.2	4722.5	1936.3	844.9	819.8	849.9	880.1	885.2	885.2
6900.2	30°	7393.0	7076.2	4395.6	1312.6	744.3	764.4	814.7	849.9	875.1	875.1
7554.0	32.5°	7991.5	7438.3	3937.9	895.2	689.0	699.1	739.3	809.7	865.0	870.1
8429.1	35°	8821.3	7875.8	3460.1	714.2	648.8	653.8	679.0	734.3	829.8	860.0
9565.7	37.5°	9696.4	8373.7	2866.7	643.7	618.6	613.6	628.7	673.9	759.4	834.9
10732.5	40°	10626.9	8896.8	2243.1	608.5	593.5	583.4	588.4	608.5	673.9	769.5
11874.1	42.5°	11501.9	9369.5	1684.8	573.3	568.3	558.2	558.2	563.3	598.5	663.9
13141.5	45°	12447.4	9756.8	1282.5	548.2	533.1	538.1	518.0	508.0	533.1	538.1
14554.7	47.5°	13332.6	10144.0	1026.0	518.0	502.9	502.9	477.8	457.7	457.7	412.4
15796.9	50°	14162.4	10355.3	819.8	477.8	472.8	467.7	432.5	397.3	367.1	311.8
16968.8	52.5°	14851.4	10345.2	633.7	427.5	442.6	427.5	372.2	321.9	276.6	226.3
17401.3	55°	15057.6	9862.4	477.8	352.0	377.2	357.1	296.7	251.5	201.2	160.9
17466.7	57.5°	14881.6	9128.1	362.1	271.6	291.7	271.6	226.3	186.1	140.8	110.6
17305.7	60°	14293.2	8268.1	281.6	211.2	221.3	206.2	171.0	140.8	100.6	70.4
16269.7	62.5°	13176.7	7191.9	216.3	166.0	160.9	160.9	130.8	105.6	70.4	40.2
13548.9	65°	10812.9	5607.6	166.0	115.7	115.7	115.7	100.6	75.4	45.3	20.1
8861.6	67.5°	6789.5	3264.0	135.8	90.5	85.5	85.5	70.4	50.3	25.1	5.0
3485.3	70°	2554.9	1197.0	105.6	70.4	65.4	65.4	50.3	30.2	15.1	0.0
1212.1	72°	880.1	457.7	85.5	50.3	50.3	45.3	35.2	25.1	10.1	0.0
915.3	72.5°	724.2	367.1	80.5	50.3	45.3	45.3	35.2	25.1	10.1	0.0
326.9	75°	261.5	150.9	55.3	35.2	30.2	30.2	25.1	15.1	5.0	0.0
166.0	77.5°	130.8	95.6	45.3	30.2	25.1	15.1	15.1	10.1	5.0	0.0
100.6	80°	80.5	60.4	25.1	20.1	15.1	10.1	5.0	5.0	0.0	0.0
70.4	82.5°	55.3	35.2	15.1	15.1	10.1	5.0	0.0	0.0	0.0	0.0
45.3	85°	35.2	15.1	10.1	10.1	5.0	0.0	0.0	0.0	0.0	0.0
25.1	87.5°	15.1	10.1	5.0	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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