

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: P575136

Luminaire Tested: **EPH-VN-04-740-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575136
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-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

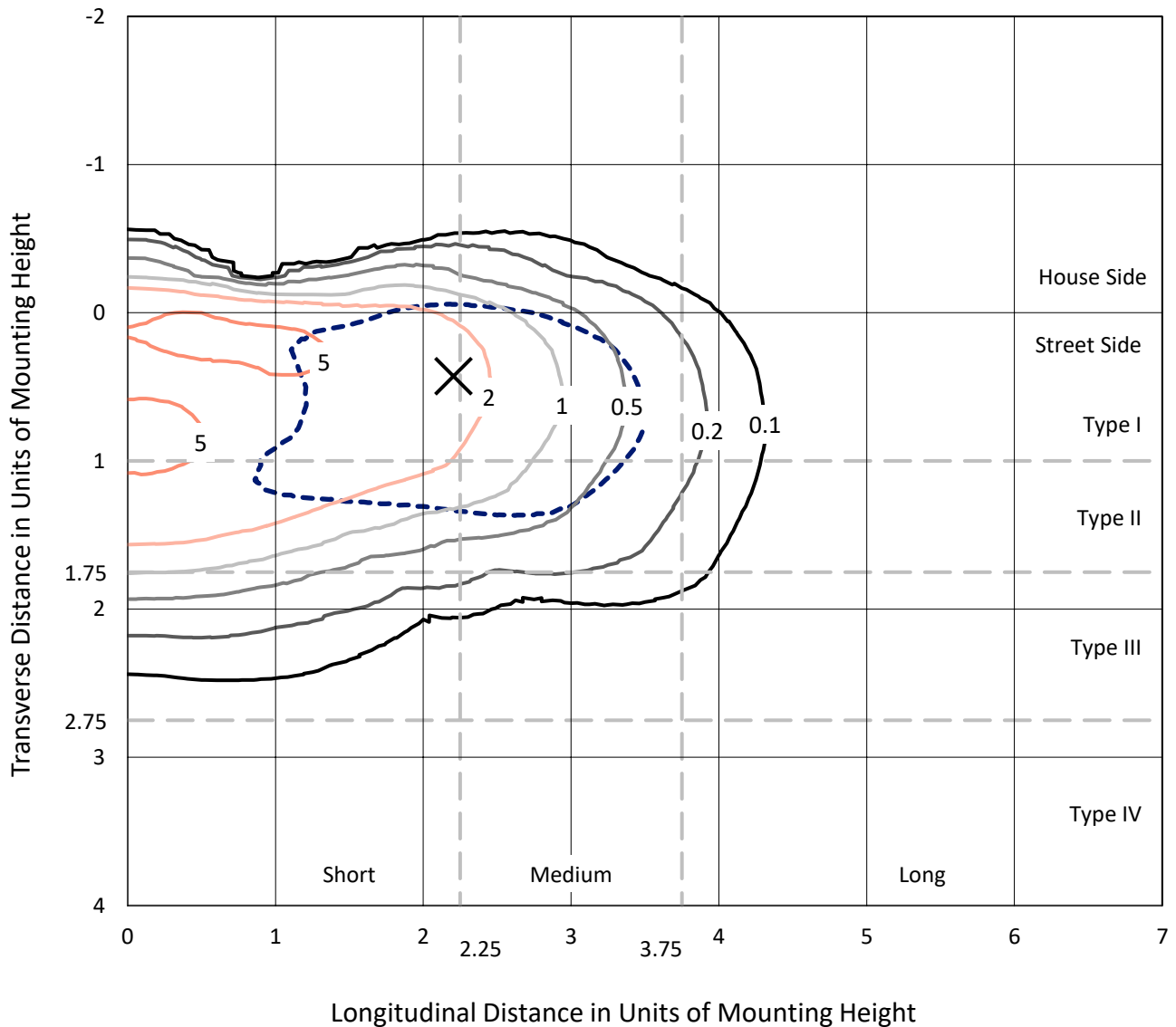
Lumens per Lamp: N/A
Luminaire Lumens: 21763.7 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P575136
 CATALOG NUMBER: EPH-VN-04-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

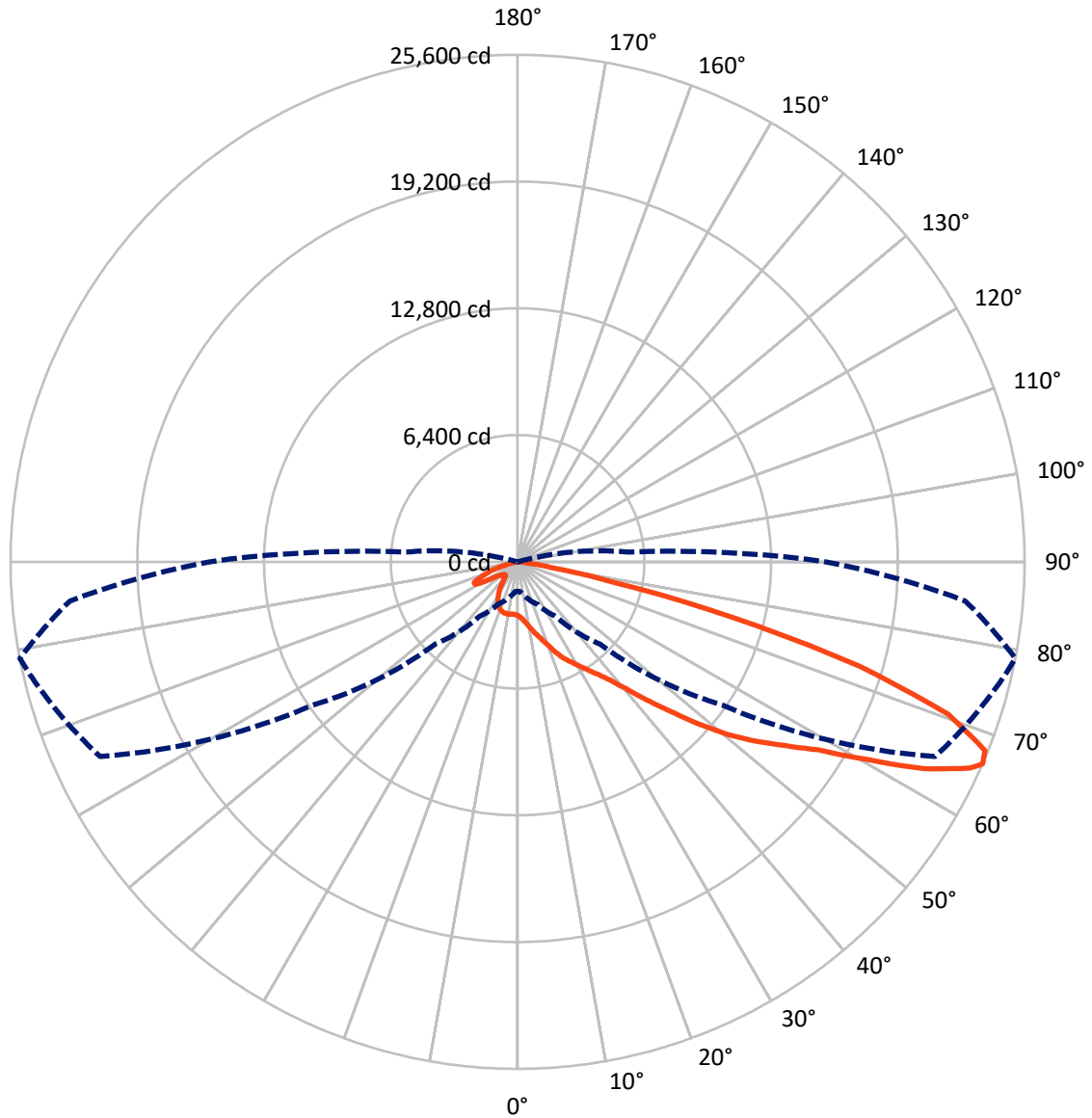
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

REPORT NUMBER: P575136
CATALOG NUMBER: EPH-VN-04-740-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P575136
 CATALOG NUMBER: EPH-VN-04-740-U-T2-HSS

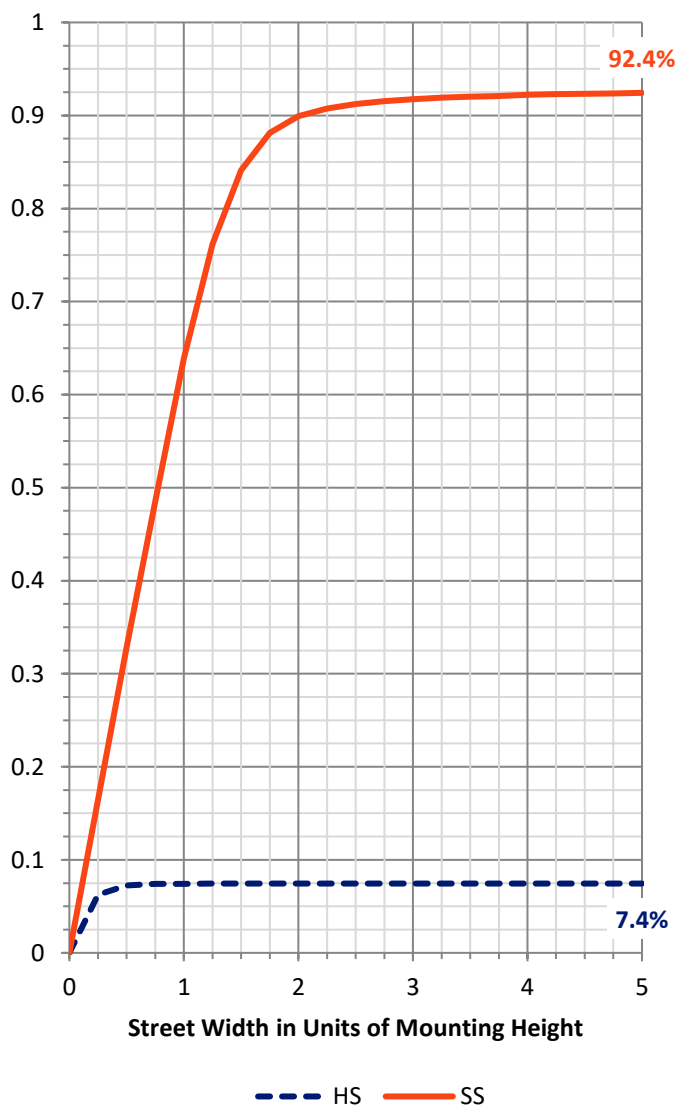
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1634.2	0.0	1634.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20129.6	0.0	20129.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	21763.7	0.0	21763.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	1.2
10°-20°	704.7	3.2
20°-30°	1170.8	5.4
30°-40°	2010.9	9.2
40°-50°	3643.0	16.7
50°-60°	5758.6	26.5
60°-70°	5859.8	26.9
70°-80°	2234.6	10.3
80°-90°	125.3	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°	21763.7	100.0
0°-180°	21763.7	100.0

Coefficient of Utilization

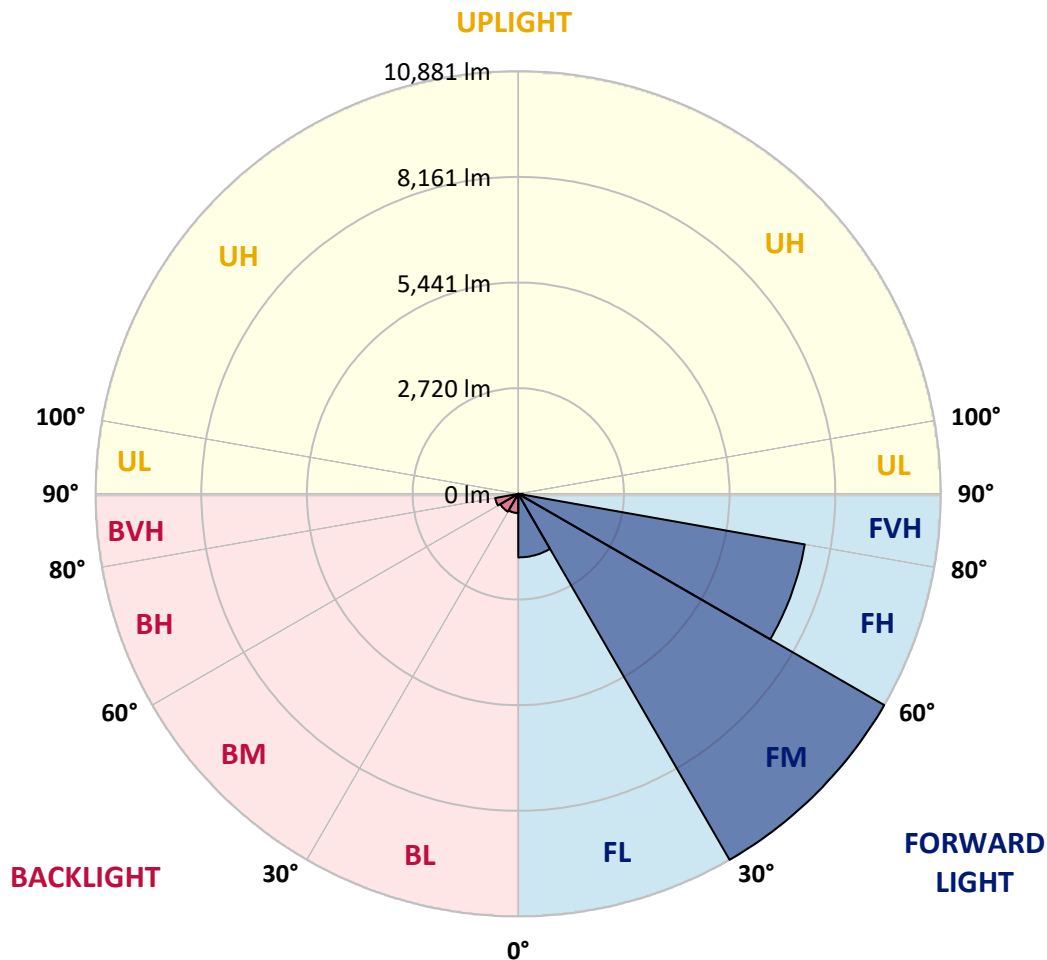


REPORT NUMBER: P575136
 CATALOG NUMBER: EPH-VN-04-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1637.4	7.5			
FM (30°-60°)	10881.4	50.0			
FH (60°-80°)	7492.0	34.4			G3/7500
FVH (80°-90°)	118.9	0.5			G2/225
BL (0°-30°)	494.2	2.3	B1/500		
BM (30°-60°)	531.1	2.4	B1/1000		
BH (60°-80°)	602.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





REPORT NUMBER: P575136
 CATALOG NUMBER: EPH-VN-04-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7
2.5°	3066.7	3063.3	3049.9	3026.4	2996.2	2986.2	2942.5	2882.1	2848.6	2811.7
5°	3278.1	3261.3	3301.5	3284.8	3291.5	3211.0	3157.3	3113.7	2986.2	2935.8
7.5°	3325.0	3341.8	3338.5	3365.3	3392.1	3422.3	3385.4	3321.7	3194.2	3120.4
10°	3325.0	3318.3	3345.2	3382.1	3459.2	3526.3	3627.0	3543.1	3445.8	3358.6
12.5°	3264.6	3254.6	3281.4	3358.6	3496.1	3633.7	3744.4	3825.0	3687.4	3616.9
15°	3080.1	3070.0	3180.8	3318.3	3499.5	3724.3	3955.8	4086.7	3992.7	3882.0
17.5°	2851.9	2865.4	2982.8	3211.0	3499.5	3767.9	4063.2	4348.4	4335.0	4194.0
20°	2774.8	2784.8	2902.3	3066.7	3395.5	3798.1	4230.9	4633.6	4714.1	4546.3
22.5°	2922.4	2912.3	2922.4	3023.1	3325.0	3771.3	4341.7	4959.0	5103.3	4972.5
25°	3425.7	3419.0	3335.1	3180.8	3284.8	3710.9	4398.7	5173.8	5505.9	5385.1
27.5°	4163.8	4137.0	4006.1	3684.0	3472.7	3747.8	4492.7	5381.8	5858.2	5720.7
30°	4955.7	4891.9	4720.8	4318.2	3959.2	3885.4	4546.3	5536.1	6250.8	6076.3
32.5°	5502.6	5586.5	5532.8	5123.4	4573.2	4204.1	4633.6	5730.7	6613.2	6499.1
35°	6348.1	6445.4	6220.6	5858.2	5304.6	4710.7	4818.1	5888.4	7170.1	6978.9
37.5°	7415.1	7488.9	7327.8	6640.0	6056.2	5334.8	5197.3	6217.2	7649.9	7559.3
40°	7951.9	8307.5	8079.4	7458.7	6831.2	6207.2	5824.7	6603.1	8485.4	8411.6
42.5°	8693.4	8871.2	8753.8	8294.1	7639.9	7139.9	6599.7	7354.7	9498.7	9498.7
45°	9478.5	9485.2	9478.5	9102.7	8522.3	8263.9	7646.6	8297.5	10589.1	10709.9
47.5°	10122.7	10324.0	10307.3	10082.5	9632.9	9535.6	8693.4	9371.2	11958.0	12169.4
50°	10454.9	10679.7	10746.8	10864.2	10844.1	11048.8	9837.5	10615.9	13139.1	13659.1
52.5°	10364.3	10381.1	10793.8	11256.8	11994.9	12568.7	11216.5	12028.5	14521.4	15034.8
55°	9622.8	9559.0	10407.9	10938.0	12464.7	13498.1	13125.7	13790.0	15598.5	16380.2
57.5°	7995.5	8012.3	8797.4	9874.4	12115.7	13867.2	15165.6	16091.7	17108.3	17896.8
60°	5519.4	5499.2	6378.3	7623.1	10065.7	13179.3	16340.0	19074.5	19128.2	20245.5
62.5°	3103.6	3110.3	3778.0	4841.6	7042.6	10770.3	16282.9	22241.8	22013.7	22993.4
65°	1758.1	1801.8	2261.4	2868.7	4217.5	7230.5	14004.7	23503.4	24238.2	25110.5
66°	1486.4	1516.6	1909.1	2368.8	3365.3	5864.9	12605.6	23258.5	24936.1	25600.4
67.5°	1150.8	1191.1	1519.9	1878.9	2469.4	4059.8	10146.2	22040.5	25063.6	25452.8
70°	788.5	815.3	1067.0	1426.0	1687.7	2076.9	6066.3	18222.3	22741.7	23070.6
72.5°	553.6	567.0	748.2	1080.4	1298.5	1187.8	3009.6	12964.6	17403.6	18044.4
75°	399.3	412.7	513.4	775.1	1013.3	778.4	1379.0	8280.7	10673.0	11176.3
77.5°	288.5	305.3	348.9	499.9	734.8	546.9	677.8	4324.9	5032.8	4945.6
80°	174.5	191.2	258.4	322.1	536.8	385.9	372.4	1805.1	1785.0	1694.4
82.5°	80.5	93.9	137.6	218.1	375.8	268.4	177.8	644.2	563.7	516.7
85°	23.5	30.2	80.5	164.4	191.2	130.9	107.4	221.4	231.5	198.0
87.5°	0.0	3.4	36.9	40.3	57.0	43.6	40.3	57.0	107.4	87.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575136

CATALOG NUMBER: EPH-VN-04-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2707.7	0°	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7	2707.7
2794.9	2.5°	2734.5	2711.0	2654.0	2566.8	2489.6	2449.3	2392.3	2342.0	2315.1	2311.8
2855.3	5°	2801.6	2737.9	2600.3	2442.6	2325.2	2197.7	2110.4	2046.7	1986.3	1929.3
3033.1	7.5°	2892.2	2791.6	2566.8	2362.1	2107.1	1942.7	1788.3	1697.7	1644.1	1593.7
3200.9	10°	3033.1	2905.6	2543.3	2174.2	1882.3	1640.7	1483.0	1352.2	1278.3	1191.1
3412.3	12.5°	3224.4	2996.2	2456.0	2003.1	1627.3	1372.3	1147.5	936.1	818.7	728.1
3653.8	15°	3415.6	3117.0	2375.5	1795.0	1395.8	1060.3	731.4	587.2	553.6	533.5
3955.8	17.5°	3603.5	3214.3	2251.4	1583.7	1130.7	674.4	533.5	503.3	486.5	466.4
4234.3	20°	3831.7	3278.1	2097.0	1389.1	778.4	499.9	456.3	436.2	409.3	382.5
4600.0	22.5°	4053.1	3331.7	1919.2	1140.8	523.4	432.8	382.5	355.7	332.2	305.3
4895.3	25°	4274.6	3348.5	1687.7	818.7	422.8	345.6	298.6	261.7	238.2	214.7
5160.3	27.5°	4425.5	3244.5	1469.6	523.4	338.9	261.7	208.0	177.8	157.7	134.2
5391.9	30°	4512.8	3053.3	1234.7	369.1	255.0	177.8	124.1	93.9	73.8	57.0
5787.8	32.5°	4600.0	2898.9	969.7	281.8	167.8	93.9	47.0	16.8	0.0	0.0
6156.8	35°	4774.5	2724.4	650.9	157.7	57.0	3.4	0.0	0.0	0.0	0.0
6629.9	37.5°	4885.2	2482.9	298.6	23.5	0.0	0.0	0.0	0.0	0.0	0.0
7284.2	40°	5163.7	2362.1	73.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8170.0	42.5°	5616.7	2278.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9230.2	45°	6113.2	2244.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10263.6	47.5°	6774.2	2335.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11592.3	50°	7472.1	2580.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12619.0	52.5°	8237.1	2811.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13679.3	55°	8904.8	3090.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15169.0	57.5°	10132.8	3747.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17843.1	60°	12337.2	5039.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20882.9	62.5°	14820.0	5999.2	36.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22728.3	65°	15729.3	5975.7	63.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
22691.4	66°	15568.3	5646.9	63.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
22050.6	67.5°	14732.8	5016.1	57.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0
19165.1	70°	12652.6	4143.7	57.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0
14907.3	72.5°	9646.3	3227.7	53.7	13.4	3.4	0.0	0.0	0.0	0.0	0.0
8978.6	75°	5821.3	1717.9	43.6	16.8	6.7	0.0	0.0	0.0	0.0	0.0
3861.9	77.5°	2318.5	603.9	33.6	13.4	6.7	0.0	0.0	0.0	0.0	0.0
1214.6	80°	627.4	181.2	20.1	13.4	10.1	3.4	0.0	0.0	0.0	0.0
342.2	82.5°	164.4	67.1	16.8	13.4	6.7	3.4	0.0	0.0	0.0	0.0
114.1	85°	63.7	26.8	13.4	10.1	10.1	6.7	3.4	0.0	0.0	0.0
36.9	87.5°	20.1	10.1	10.1	6.7	6.7	3.4	3.4	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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