

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: P575178

Luminaire Tested: **EPH-VN-06-740-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575178
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

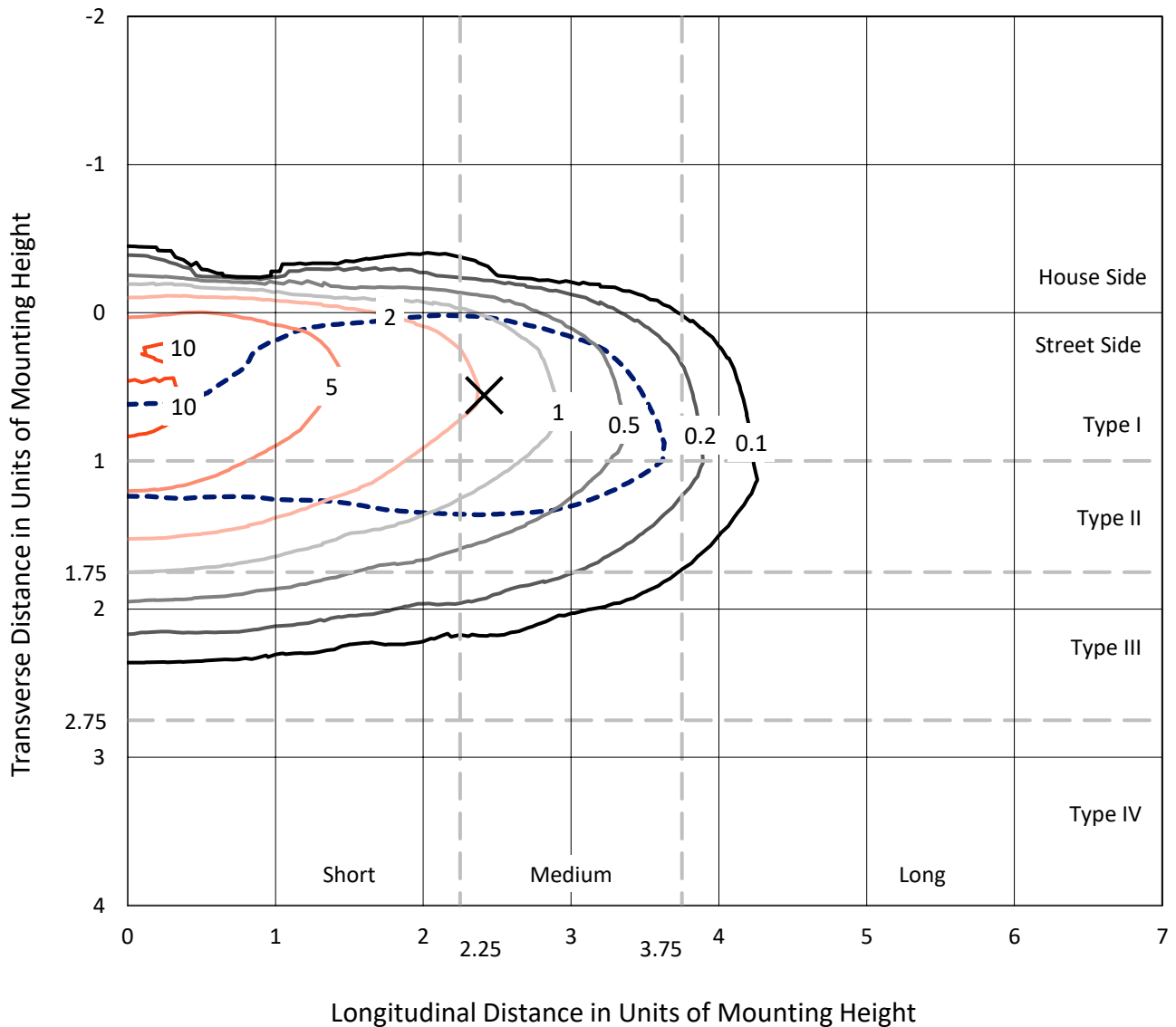
Lumens per Lamp: N/A
Luminaire Lumens: 35947.1 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

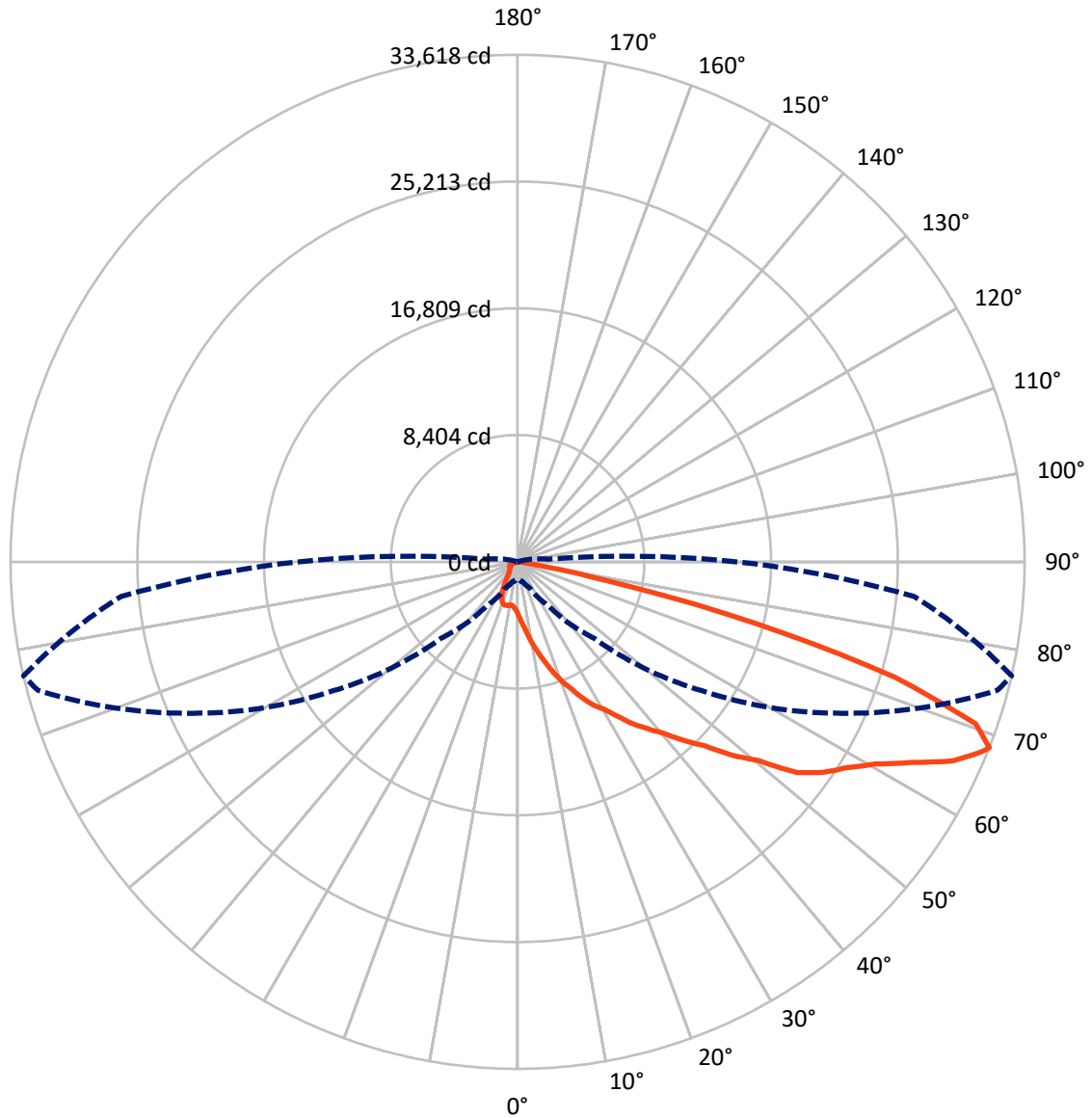
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 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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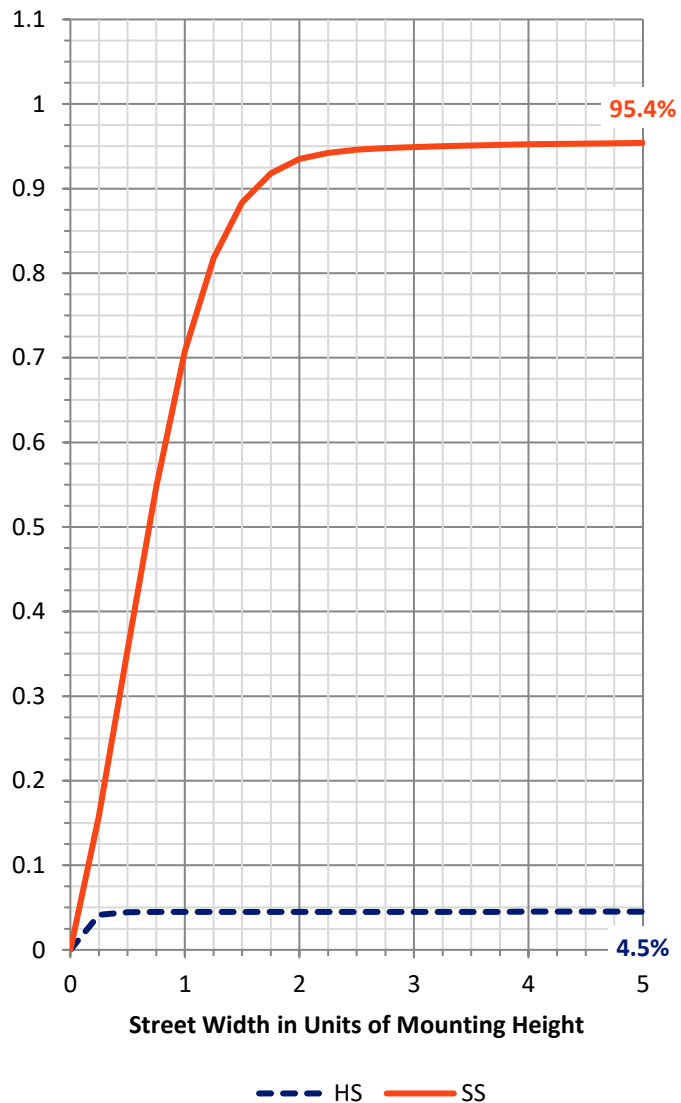
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1630.2	0.0	1630.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	34316.9	0.0	34316.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	35947.1	0.0	35947.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.1	1.1
10°-20°	1483.0	4.1
20°-30°	2874.2	8.0
30°-40°	5010.6	13.9
40°-50°	7338.5	20.4
50°-60°	8621.6	24.0
60°-70°	7280.2	20.3
70°-80°	2822.0	7.9
80°-90°	114.8	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°	35947.1	100.0
0°-180°	35947.1	100.0

Coefficient of Utilization

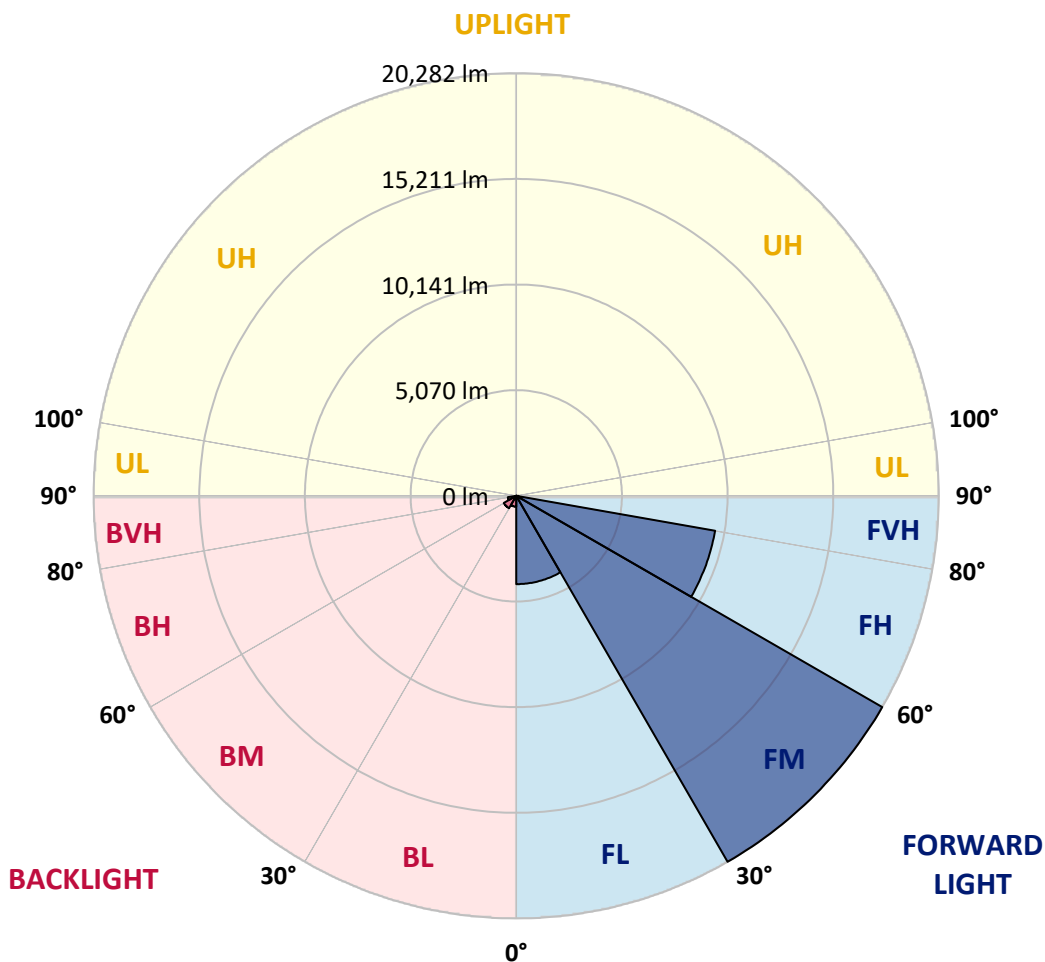


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4238.5	11.8			
FM (30°-60°)	20282.0	56.4			
FH (60°-80°)	9690.6	27.0			G4/12000
FVH (80°-90°)	105.9	0.3			G2/225
BL (0°-30°)	520.8	1.4	B2/1000		
BM (30°-60°)	688.8	1.9	B1/1000		
BH (60°-80°)	411.6	1.1	B1/500		G1/500
BVH (80°-90°)	8.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0
2.5°	5229.8	5130.8	5026.8	4997.1	4803.9	4586.0	4383.0	4184.9	3853.0	3858.0
5°	6740.3	6616.5	6532.3	6512.5	6210.4	5834.0	5527.0	4967.4	4417.6	4293.8
7.5°	7983.4	7943.8	7820.0	7716.0	7493.1	7032.5	6671.0	5868.7	5031.7	4893.1
10°	8736.2	8795.6	8850.1	8716.4	8543.1	8211.2	7716.0	6849.3	5730.0	5556.7
12.5°	9538.5	9439.5	9474.1	9583.1	9355.3	9281.0	8666.9	7859.6	6547.2	6215.4
15°	9746.5	9786.1	9870.3	10187.3	10340.8	10127.9	9597.9	8676.8	7394.1	6933.5
17.5°	9885.2	9865.4	9969.4	10444.8	10677.6	10880.6	10548.8	9588.0	8132.0	7720.9
20°	10058.5	9949.6	10177.4	10479.5	11019.3	11445.2	11430.4	10504.2	8904.6	8468.8
22.5°	10702.3	10618.2	10801.4	10831.1	11207.5	11801.8	11945.4	11252.1	9697.0	9162.1
25°	11890.9	12044.5	11826.6	11638.4	11752.3	12143.5	12247.5	11915.7	10494.3	10004.0
27.5°	13629.3	13609.5	13178.6	12935.9	12663.5	12614.0	12688.3	12534.8	11123.3	10771.7
30°	15496.4	15332.9	14936.7	14352.3	13753.1	13381.6	13277.6	13119.2	11861.2	11351.1
32.5°	16982.1	17071.3	16630.5	15867.8	14872.3	14372.1	13871.9	13698.6	12673.4	12222.8
35°	18349.0	18230.1	17878.5	17234.7	16343.2	15536.0	14753.5	14382.1	13649.1	13203.4
37.5°	19359.3	19507.9	18839.3	18225.2	17338.7	16670.1	15902.5	15090.3	14654.4	14060.1
40°	20315.1	20082.4	19631.7	19067.1	18245.0	17734.9	17229.7	15961.9	15724.2	14956.5
42.5°	20146.8	20161.6	19914.0	19458.4	18864.1	18571.9	18398.5	17021.7	16694.9	16204.6
45°	19458.4	19517.8	19602.0	19379.1	19428.6	19136.4	19602.0	18240.0	17918.1	17398.1
47.5°	18700.6	18799.7	18779.9	19186.0	19646.6	19745.6	20909.4	19592.1	19453.4	19166.2
50°	17442.7	17482.3	17863.7	18601.6	19230.5	20265.6	21890.0	21067.9	21280.9	20716.3
52.5°	15293.3	15436.9	16417.5	17472.4	18740.2	20528.1	22553.7	23261.9	23801.7	23222.3
55°	12574.4	12772.5	13738.2	15714.3	17571.5	20131.9	23157.9	24420.8	25515.3	24638.7
57.5°	10118.0	10137.8	11004.4	13044.9	15912.4	19354.4	23464.9	24985.3	26456.2	25753.0
60°	7711.0	7631.8	8409.3	10177.4	13119.2	17442.7	22697.3	25272.6	27630.0	27223.9
62.5°	4962.4	4838.6	5685.5	7408.9	10246.7	14258.2	21162.0	25277.5	29462.4	29308.9
65°	2456.4	2372.2	3100.3	4541.4	7092.0	10905.4	18973.0	25183.4	31700.9	31800.0
67.5°	1297.6	1327.3	1560.0	2302.9	4090.8	7706.1	15674.7	24079.0	32845.0	33399.6
68°	1193.6	1203.5	1386.7	1916.6	3550.9	7146.5	14892.2	23757.1	32934.1	33617.5
70°	970.7	985.5	1049.9	1203.5	1921.6	4650.4	11489.8	21023.3	31592.0	32216.0
72.5°	772.6	817.2	856.8	921.2	1129.2	2441.6	7146.5	16382.9	26099.7	26169.0
75°	589.3	624.0	703.3	757.7	881.5	1342.1	3402.4	9989.2	17125.7	16283.8
77.5°	455.6	485.3	520.0	594.3	737.9	906.3	1040.0	4239.3	7275.2	5987.6
80°	272.4	292.2	406.1	465.5	643.8	614.1	411.1	1178.7	1475.8	1163.8
82.5°	158.5	173.3	232.8	356.6	450.7	331.8	242.7	366.5	361.5	317.0
85°	5.0	9.9	128.8	213.0	158.5	89.1	148.6	153.5	128.8	118.9
87.5°	0.0	5.0	34.7	29.7	34.7	19.8	29.7	39.6	49.5	44.6
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°
3442.0	0°	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0	3442.0
3630.2	2.5°	3476.7	3367.7	3125.0	2941.8	2743.7	2624.8	2506.0	2431.7	2392.1	2367.3
3877.8	5°	3565.8	3338.0	2946.7	2600.1	2372.2	2218.7	2065.2	1986.0	1911.7	1872.0
4179.9	7.5°	3763.9	3422.2	2773.4	2397.0	2129.6	1891.9	1698.7	1545.2	1456.0	1376.8
4571.2	10°	4006.6	3471.7	2778.4	2278.1	1891.9	1515.5	1243.1	1049.9	941.0	871.6
5066.4	12.5°	4254.2	3664.8	2798.2	2159.3	1599.7	1139.1	817.2	673.5	609.2	574.5
5527.0	15°	4630.6	3838.2	2748.6	1941.4	1213.4	742.9	559.6	510.1	485.3	455.6
6101.5	17.5°	4957.4	4115.5	2723.9	1614.5	832.0	534.9	465.5	411.1	386.3	356.6
6671.0	20°	5398.2	4288.9	2590.2	1248.0	574.5	445.7	376.4	326.9	287.2	262.5
7285.1	22.5°	5799.4	4422.6	2352.4	851.8	440.8	351.6	277.3	227.8	193.1	163.4
7899.2	25°	6235.2	4556.3	2005.8	525.0	312.0	217.9	148.6	109.0	74.3	54.5
8404.4	27.5°	6547.2	4595.9	1555.1	312.0	188.2	99.0	34.7	5.0	0.0	0.0
8904.6	30°	6864.2	4610.8	1074.7	168.4	74.3	0.0	0.0	0.0	0.0	0.0
9479.1	32.5°	7225.7	4605.8	673.5	89.1	5.0	0.0	0.0	0.0	0.0	0.0
10113.0	35°	7503.0	4521.6	321.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0
10885.6	37.5°	7924.0	4397.8	99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11757.2	40°	8404.4	4175.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12609.1	42.5°	8835.3	3947.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13589.7	45°	9325.6	3664.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14946.6	47.5°	10187.3	3546.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16561.1	50°	11311.5	3451.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18111.3	52.5°	12004.9	3174.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19052.3	55°	12366.4	2887.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20201.2	57.5°	12901.3	2748.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21583.0	60°	13693.7	2758.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23895.8	62.5°	14931.8	2897.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26149.2	65°	15615.2	2758.5	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26694.0	67.5°	15035.8	2208.8	94.1	24.8	5.0	0.0	0.0	0.0	0.0	0.0
26391.9	68°	14535.6	2030.5	94.1	24.8	5.0	0.0	0.0	0.0	0.0	0.0
23890.8	70°	12014.8	1322.3	89.1	24.8	9.9	0.0	0.0	0.0	0.0	0.0
18596.6	72.5°	8751.1	733.0	74.3	19.8	9.9	0.0	0.0	0.0	0.0	0.0
10954.9	75°	5091.2	366.5	54.5	19.8	9.9	0.0	0.0	0.0	0.0	0.0
3095.3	77.5°	1327.3	183.2	44.6	24.8	14.9	5.0	0.0	0.0	0.0	0.0
564.6	80°	262.5	118.9	39.6	29.7	19.8	9.9	0.0	0.0	0.0	0.0
188.2	82.5°	123.8	84.2	39.6	29.7	24.8	14.9	5.0	0.0	0.0	0.0
84.2	85°	64.4	39.6	39.6	29.7	29.7	19.8	9.9	0.0	0.0	0.0
34.7	87.5°	29.7	14.9	14.9	14.9	14.9	9.9	5.0	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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