

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: P575256

Luminaire Tested: **EPH-VN-04-740-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575256
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-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

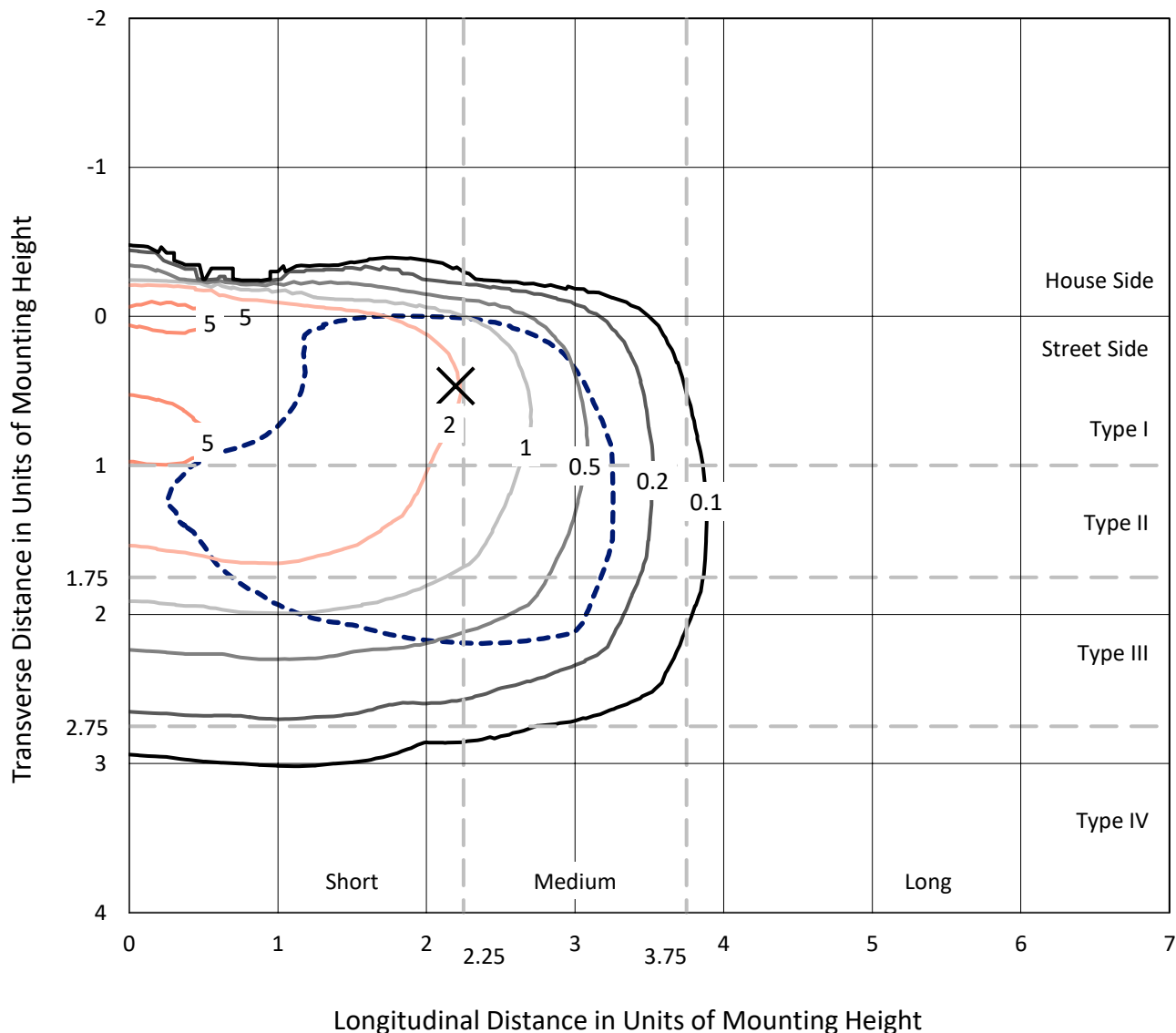
Lumens per Lamp: N/A
Luminaire Lumens: 21663.4 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

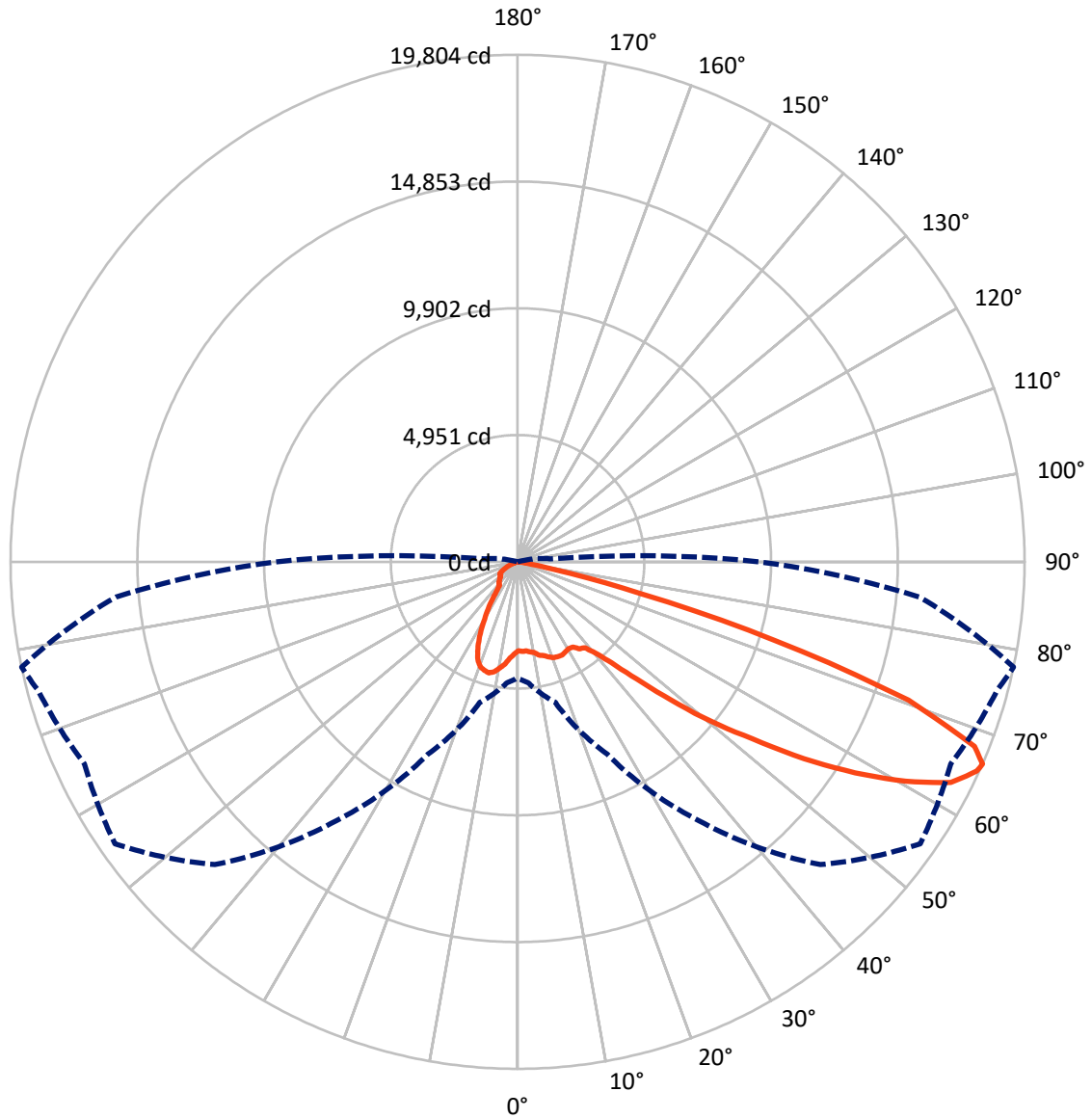
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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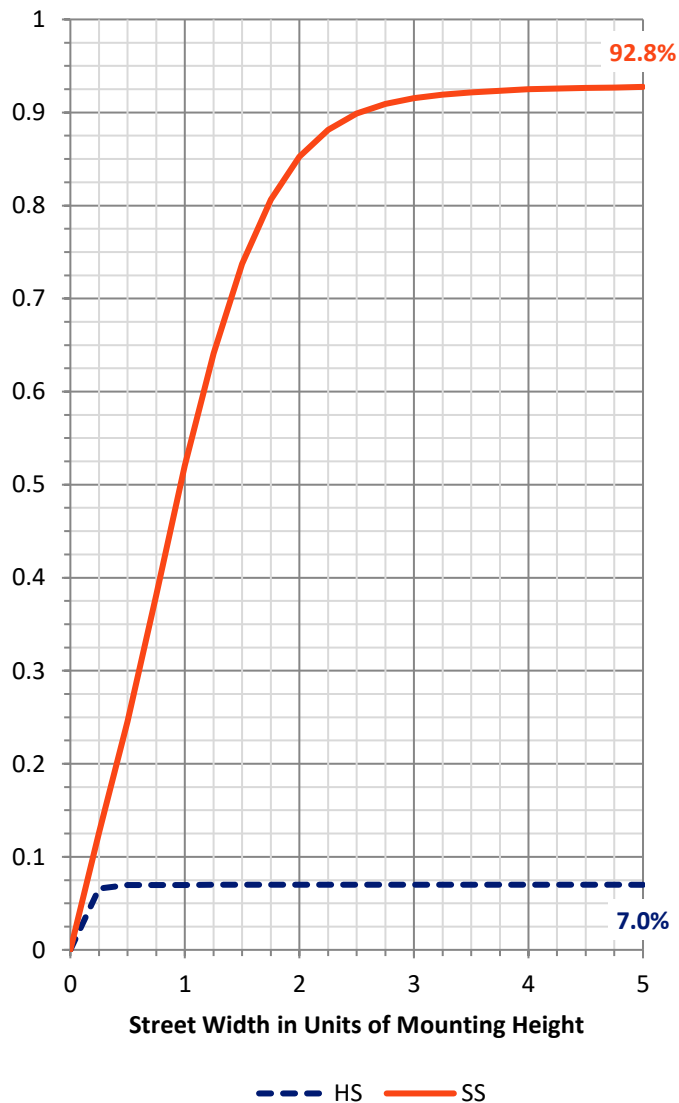
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1523.0	0.0	1523.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	20140.4	0.0	20140.4
	% Fixture	93.0	0.0	93.0
Total	Lumens	21663.4	0.0	21663.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	1.5
10°-20°	716.6	3.3
20°-30°	1024.2	4.7
30°-40°	1753.2	8.1
40°-50°	3164.2	14.6
50°-60°	5411.3	25.0
60°-70°	6660.3	30.7
70°-80°	2518.0	11.6
80°-90°	98.4	0.5
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°	21663.4	100.0
0°-180°	21663.4	100.0

Coefficient of Utilization

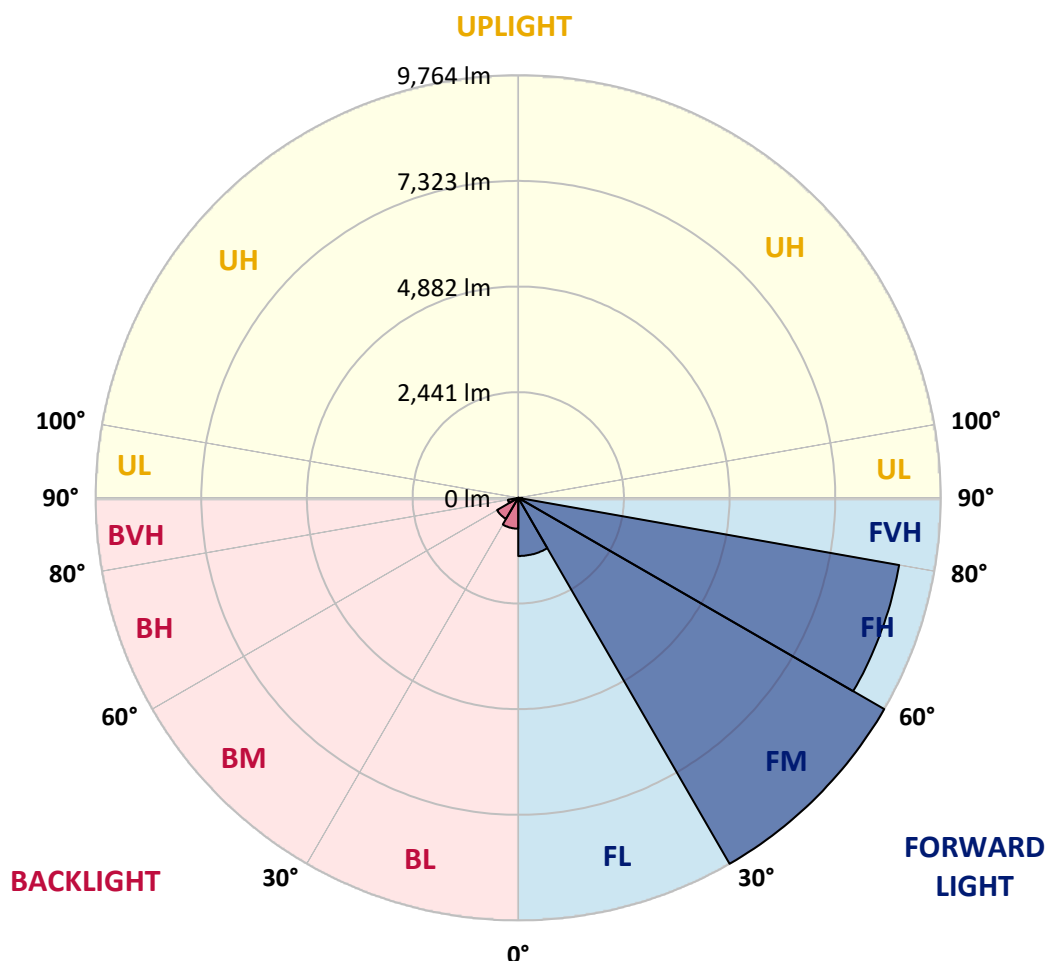


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.9	6.2			
FM (30°-60°)	9764.1	45.1			
FH (60°-80°)	8937.0	41.3			G4/12000
FVH (80°-90°)	94.4	0.4			G1/100
BL (0°-30°)	713.3	3.3	B2/1000		
BM (30°-60°)	564.5	2.6	B1/1000		
BH (60°-80°)	241.3	1.1	B1/500		G1/500
BVH (80°-90°)	3.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8
2.5°	3191.5	3162.1	3191.5	3234.1	3257.0	3276.6	3345.4	3404.3	3466.5	3509.1
5°	2959.1	3014.8	3021.3	3034.4	3070.4	3188.3	3227.5	3329.0	3482.9	3496.0
7.5°	2775.8	2759.5	2802.0	2887.1	2978.8	3047.5	3162.1	3338.8	3499.2	3554.9
10°	2510.7	2543.4	2589.2	2674.3	2785.6	2955.9	3158.8	3355.2	3584.3	3604.0
12.5°	2366.7	2333.9	2405.9	2494.3	2684.2	2841.3	3090.1	3325.8	3636.7	3744.7
15°	2248.8	2265.2	2333.9	2392.8	2550.0	2749.6	3041.0	3397.8	3725.1	3800.4
17.5°	2199.7	2189.9	2242.3	2301.2	2494.3	2720.2	3021.3	3401.0	3803.7	3901.9
20°	2222.6	2242.3	2225.9	2281.5	2402.7	2631.8	3050.8	3463.2	3862.6	3996.8
22.5°	2582.7	2556.5	2425.6	2320.8	2327.4	2595.8	3027.9	3502.5	3915.0	4023.0
25°	3522.2	3381.4	3057.3	2654.7	2389.6	2497.6	3001.7	3489.4	3905.1	4039.3
27.5°	4468.2	4347.0	4029.5	3404.3	2641.6	2458.3	2910.0	3499.2	3856.0	3980.4
30°	5466.5	5532.0	5060.6	4317.6	3302.8	2674.3	2851.1	3446.9	3823.3	3928.1
32.5°	6491.1	6464.9	6180.1	5374.9	4248.8	3152.3	2946.0	3499.2	3865.9	3967.3
35°	7293.1	7201.4	6913.4	6186.7	5031.2	3872.4	3273.4	3748.0	4052.4	4173.6
37.5°	7689.2	7728.4	7561.5	6929.7	5888.8	4540.2	3682.5	3748.0	4111.4	4252.1
40°	7996.9	8114.7	8052.5	7849.6	6739.9	5293.0	4134.3	3980.4	4409.2	4674.4
42.5°	8366.7	8311.1	8677.7	8491.1	7852.8	6242.3	4926.4	4533.6	5113.0	5368.3
45°	8563.2	8775.9	9054.2	9293.1	8883.9	7427.3	5960.8	5512.4	6190.0	6514.0
47.5°	9067.3	9152.4	9604.1	9905.2	9721.9	8782.5	7532.0	6942.8	7545.1	8055.8
50°	9361.9	9247.3	9879.0	10337.3	10442.1	9905.2	8939.6	8481.3	9155.6	9807.0
52.5°	9103.3	9430.6	10062.4	10884.0	11175.3	10906.9	10592.6	10393.0	10867.6	11469.9
55°	8196.5	8419.1	9957.6	11483.0	12422.5	12298.1	12589.4	12458.5	12936.4	13574.7
57.5°	7466.6	7744.8	9096.7	11794.0	13584.5	13951.1	14317.7	14235.9	14812.0	15548.5
60°	7011.6	7172.0	8474.8	11715.4	14271.9	15659.8	16488.0	15911.9	16851.3	17414.4
62.5°	6222.7	6324.2	7568.0	10674.5	14478.1	16867.7	18272.0	17489.6	18304.7	18992.1
65°	4988.6	5263.6	6291.4	9116.4	13116.4	17090.3	19384.9	18465.1	19254.0	19705.7
66°	4540.2	4739.8	5682.6	8291.5	12340.6	16720.4	19198.4	18668.1	19391.5	19803.9
67.5°	3767.7	3941.1	4690.7	7116.3	10753.0	15905.3	19329.3	18530.6	19496.2	19244.2
70°	2494.3	2605.6	3207.9	4811.9	7489.5	13011.7	17928.3	17456.9	17139.4	16193.4
72.5°	1165.3	1325.7	2003.3	2916.6	4392.9	9103.3	14618.9	13987.1	12019.8	10507.5
75°	527.0	599.0	1099.9	1672.7	1970.6	4716.9	9430.6	8517.3	5983.7	4969.0
77.5°	284.8	324.1	536.8	795.4	716.9	1653.1	4667.8	3882.2	1885.5	1381.4
80°	219.3	258.6	448.5	455.0	265.1	428.8	1734.9	1201.3	471.4	356.8
82.5°	114.6	163.7	353.5	294.6	134.2	173.5	536.8	333.9	147.3	117.8
85°	45.8	72.0	199.7	196.4	78.6	58.9	150.6	101.5	58.9	49.1
87.5°	3.3	3.3	108.0	75.3	49.1	16.4	22.9	22.9	29.5	26.2
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°
3469.8	0°	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8	3469.8
3496.0	2.5°	3554.9	3594.2	3600.7	3708.7	3731.6	3708.7	3767.7	3757.8	3784.0	3764.4
3554.9	5°	3636.7	3692.4	3800.4	3882.2	3882.2	3816.8	3764.4	3695.6	3594.2	3568.0
3669.5	7.5°	3777.5	3954.2	4052.4	4000.1	3895.3	3649.8	3309.4	3060.6	2851.1	2772.5
3816.8	10°	4026.3	4124.5	4239.0	4026.3	3590.9	3070.4	2497.6	2121.1	1826.5	1761.1
3990.2	12.5°	4186.6	4343.8	4409.2	3882.2	3027.9	2252.1	1630.1	1204.6	998.4	841.3
4173.6	15°	4396.1	4576.2	4442.0	3492.7	2386.3	1476.3	844.5	527.0	428.8	402.6
4297.9	17.5°	4540.2	4736.6	4307.8	3008.2	1692.3	785.6	419.0	363.3	356.8	360.1
4432.2	20°	4792.2	4910.1	4104.8	2445.2	1011.5	402.6	337.2	324.1	317.5	327.3
4523.8	22.5°	4887.2	4995.2	3774.2	1770.9	455.0	268.4	252.0	242.2	248.8	245.5
4579.5	25°	4880.6	4936.3	3230.8	1014.7	134.2	104.7	94.9	94.9	88.4	91.7
4487.8	27.5°	4929.7	4792.2	2622.0	301.2	0.0	0.0	0.0	0.0	0.0	0.0
4507.4	30°	4955.9	4559.8	1865.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4622.0	32.5°	4969.0	4438.7	1201.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4785.7	35°	5070.5	4196.5	513.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5050.8	37.5°	5139.2	3885.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5548.4	40°	5424.0	3787.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6294.7	42.5°	5793.9	3604.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7404.4	45°	6307.8	3332.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8674.4	47.5°	6988.7	3171.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9862.7	50°	7496.0	2919.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11201.5	52.5°	8140.9	2769.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12766.2	55°	8906.9	2775.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14091.9	57.5°	9604.1	2730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15129.5	60°	9960.9	2333.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15875.9	62.5°	9885.6	1888.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16101.7	65°	9623.7	1482.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15754.8	66°	9443.7	1312.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15289.9	67.5°	8897.0	1050.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11954.4	70°	7080.3	720.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7541.9	72.5°	4504.2	441.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3302.8	75°	2075.3	202.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
959.1	77.5°	651.4	124.4	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229.1	80°	170.2	78.6	26.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0
98.2	82.5°	88.4	55.6	22.9	9.8	6.5	0.0	0.0	0.0	0.0	0.0
45.8	85°	55.6	22.9	9.8	6.5	6.5	0.0	0.0	0.0	0.0	0.0
32.7	87.5°	49.1	13.1	6.5	6.5	3.3	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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