

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: P575267

Luminaire Tested: **EPH-VN-03-760-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575267
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-760-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

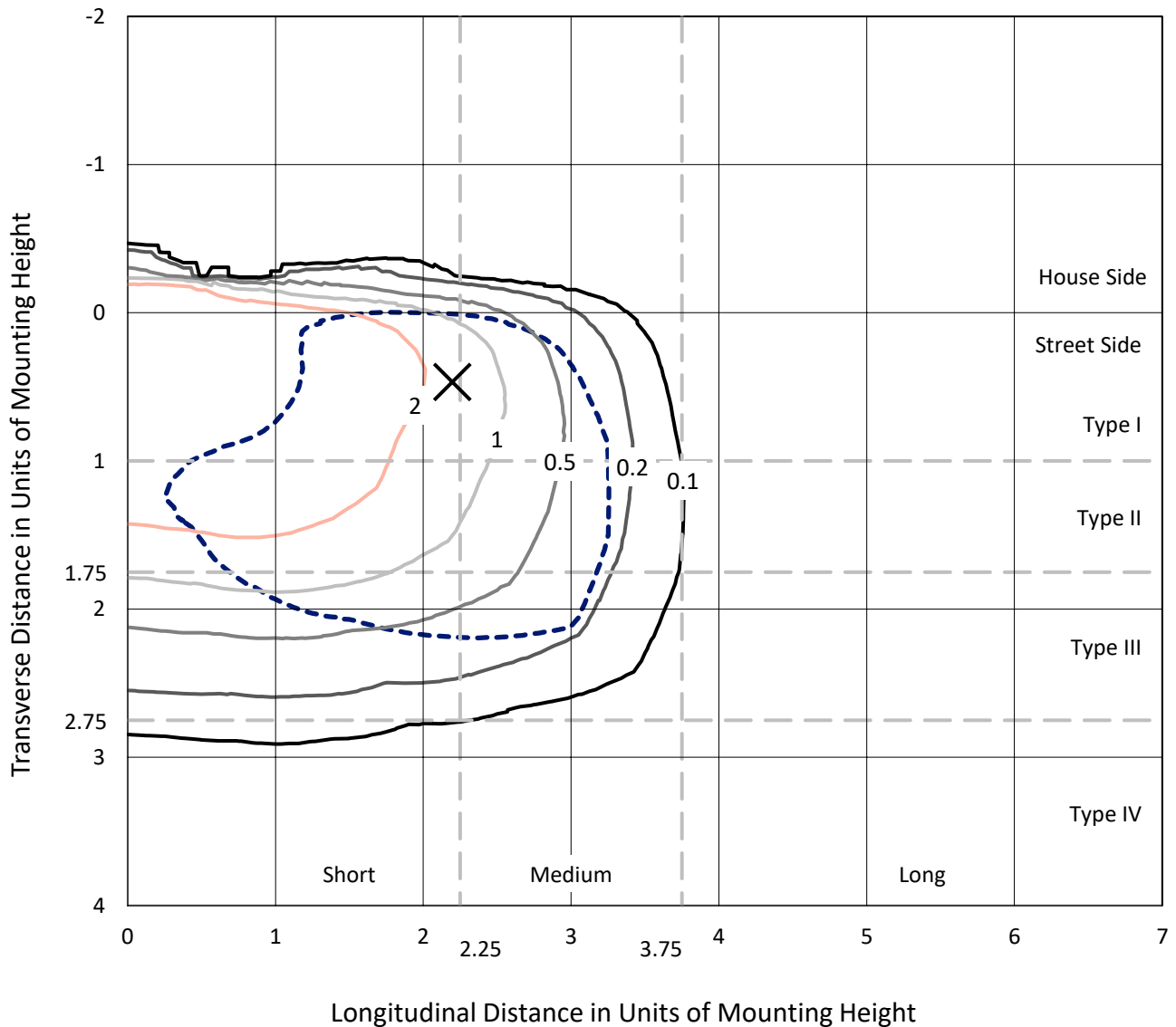
Lumens per Lamp: N/A
Luminaire Lumens: 17090 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

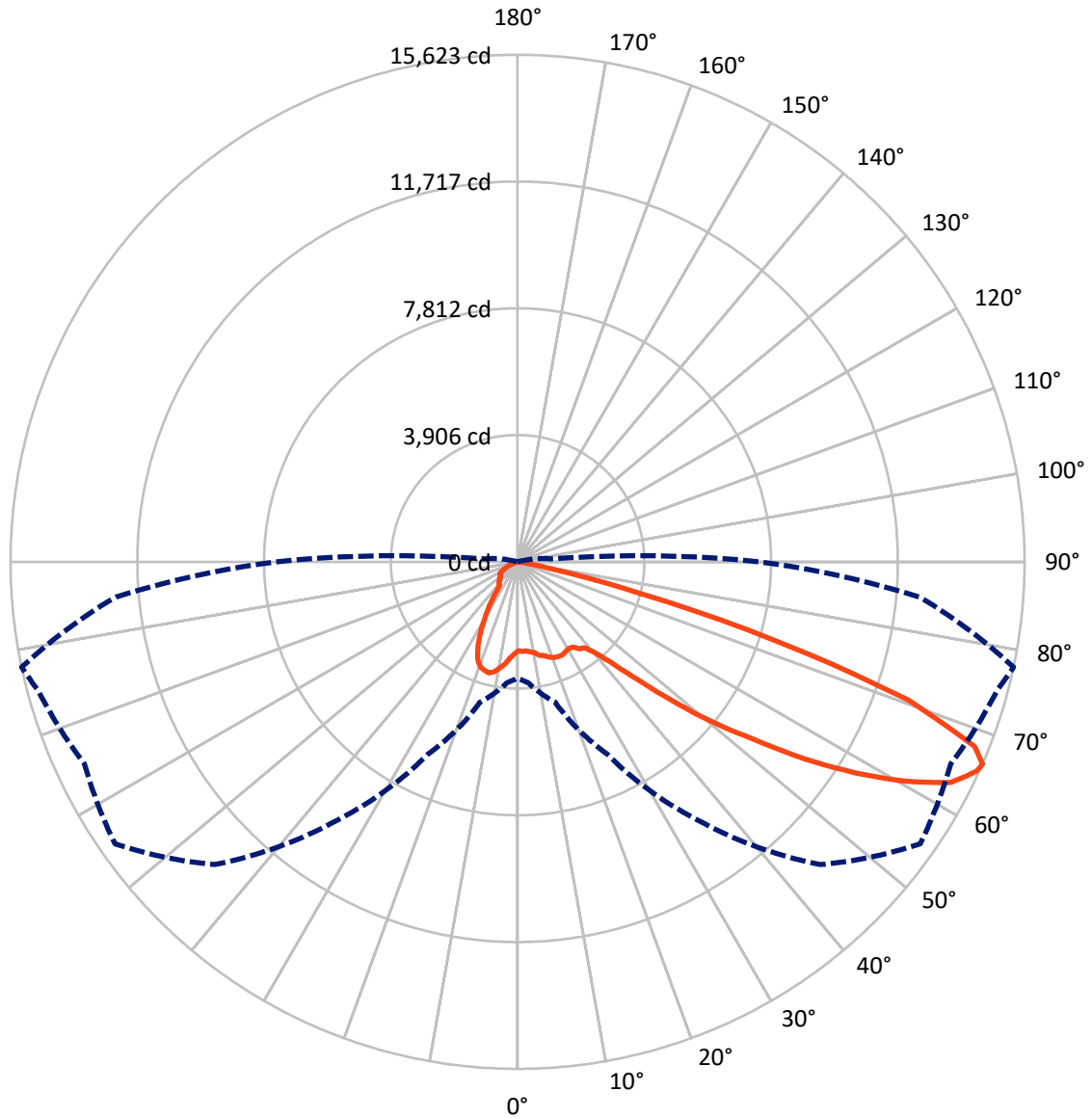
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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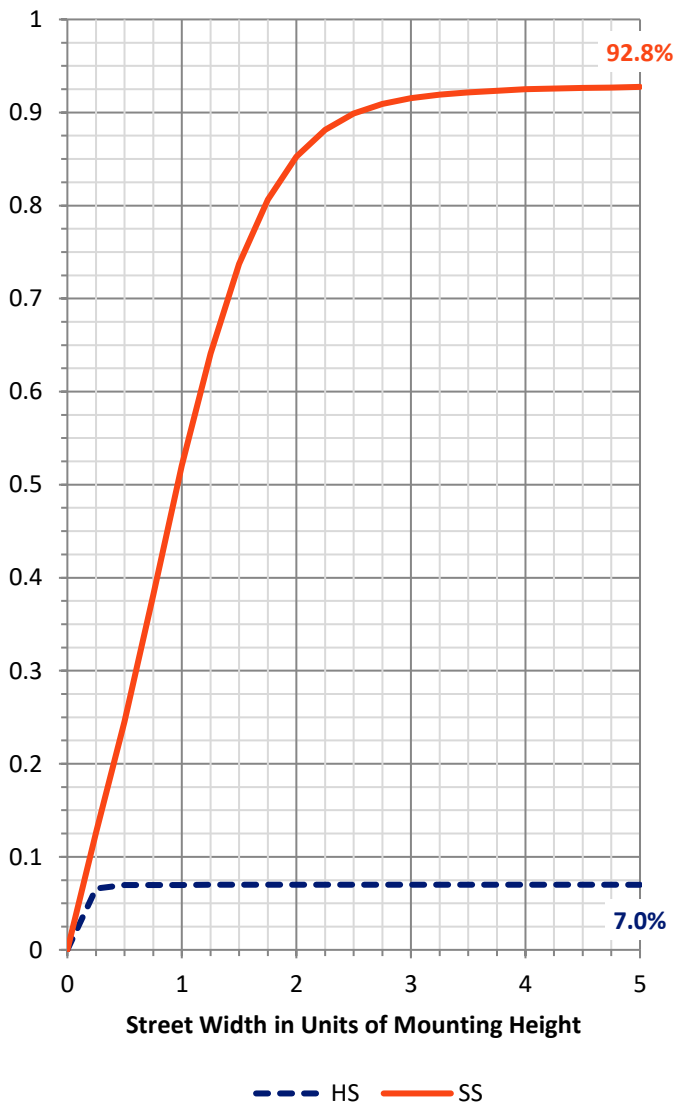
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1201.5	0.0	1201.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	15888.5	0.0	15888.5
	% Fixture	93.0	0.0	93.0
Total	Lumens	17090.0	0.0	17090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	1.5
10°-20°	565.3	3.3
20°-30°	808.0	4.7
30°-40°	1383.0	8.1
40°-50°	2496.2	14.6
50°-60°	4268.9	25.0
60°-70°	5254.2	30.7
70°-80°	1986.4	11.6
80°-90°	77.6	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°	17090.0	100.0
0°-180°	17090.0	100.0

Coefficient of Utilization



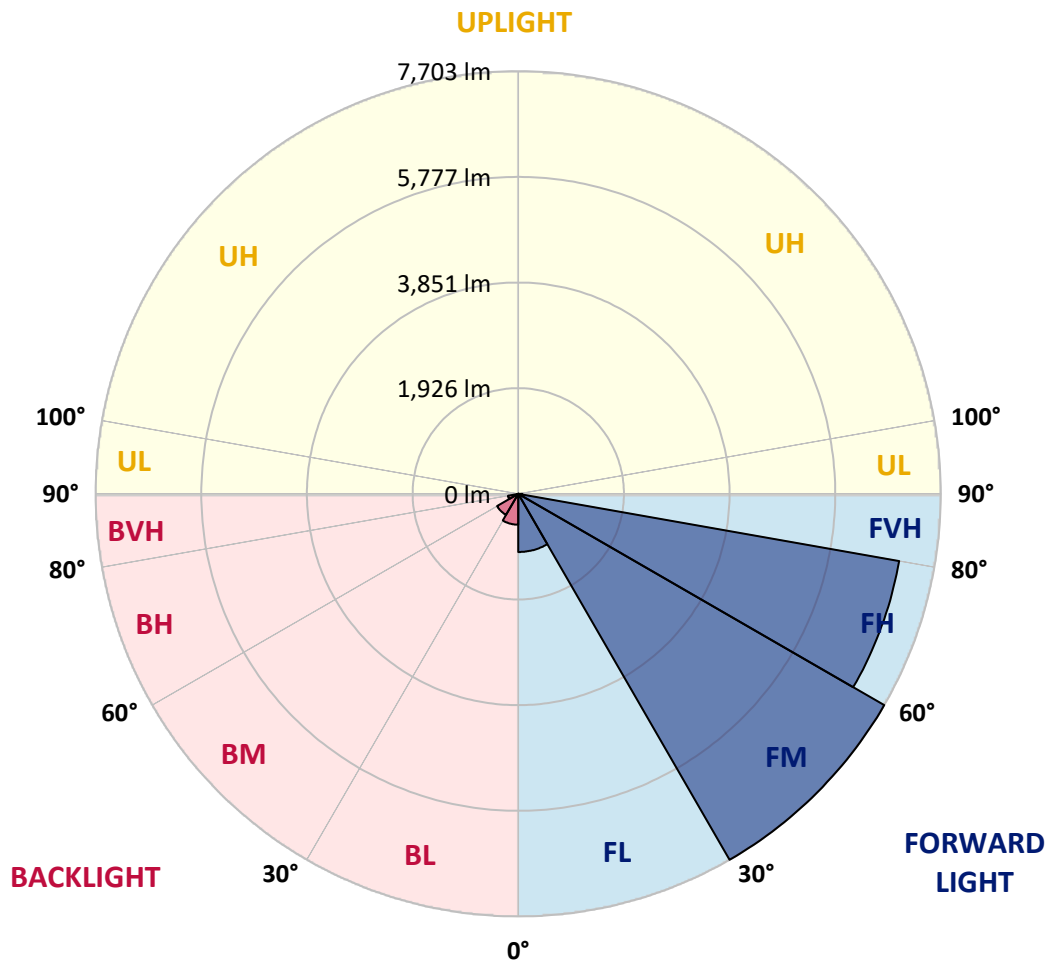
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.0	6.2			
FM (30°-60°)	7702.8	45.1			
FH (60°-80°)	7050.2	41.3			G3/7500
FVH (80°-90°)	74.5	0.4			G1/100
BL (0°-30°)	562.7	3.3	B2/1000		
BM (30°-60°)	445.3	2.6	B1/1000		
BH (60°-80°)	190.4	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3
2.5°	2517.8	2494.5	2517.8	2551.3	2569.4	2584.9	2639.1	2685.6	2734.7	2768.2
5°	2334.4	2378.3	2383.5	2393.8	2422.2	2515.2	2546.2	2626.2	2747.6	2757.9
7.5°	2189.8	2176.9	2210.5	2277.6	2349.9	2404.1	2494.5	2634.0	2760.5	2804.4
10°	1980.6	2006.5	2042.6	2109.8	2197.6	2331.8	2491.9	2646.9	2827.6	2843.1
12.5°	1867.0	1841.2	1898.0	1967.7	2117.5	2241.5	2437.7	2623.6	2869.0	2954.2
15°	1774.1	1787.0	1841.2	1887.7	2011.6	2169.2	2399.0	2680.4	2938.7	2998.1
17.5°	1735.3	1727.6	1768.9	1815.4	1967.7	2145.9	2383.5	2683.0	3000.7	3078.1
20°	1753.4	1768.9	1756.0	1799.9	1895.4	2076.2	2406.7	2732.1	3047.1	3153.0
22.5°	2037.5	2016.8	1913.5	1830.9	1836.0	2047.8	2388.6	2763.1	3088.5	3173.7
25°	2778.6	2667.5	2411.9	2094.3	1885.1	1970.3	2368.0	2752.8	3080.7	3186.6
27.5°	3524.9	3429.3	3178.8	2685.6	2083.9	1939.3	2295.7	2760.5	3042.0	3140.1
30°	4312.5	4364.1	3992.3	3406.1	2605.6	2109.8	2249.2	2719.2	3016.2	3098.8
32.5°	5120.7	5100.1	4875.4	4240.2	3351.9	2486.8	2324.1	2760.5	3049.7	3129.8
35°	5753.4	5681.1	5453.9	4880.6	3969.0	3054.9	2582.3	2956.8	3196.9	3292.5
37.5°	6065.9	6096.9	5965.2	5466.8	4645.6	3581.7	2905.1	2956.8	3243.4	3354.4
40°	6308.6	6401.6	6352.5	6192.4	5317.0	4175.6	3261.5	3140.1	3478.4	3687.6
42.5°	6600.4	6556.5	6845.7	6698.5	6195.0	4924.5	3886.4	3576.5	4033.6	4235.0
45°	6755.4	6923.2	7142.7	7331.2	7008.4	5859.3	4702.4	4348.6	4883.2	5138.8
47.5°	7153.0	7220.2	7576.5	7814.1	7669.5	6928.4	5941.9	5477.1	5952.3	6355.1
50°	7385.4	7295.1	7793.4	8155.0	8237.6	7814.1	7052.3	6690.8	7222.8	7736.6
52.5°	7181.4	7439.7	7938.1	8586.2	8816.0	8604.3	8356.4	8198.9	8573.3	9048.5
55°	6466.1	6641.7	7855.4	9058.8	9799.9	9701.8	9931.6	9828.3	10205.3	10708.9
57.5°	5890.3	6109.8	7176.3	9304.1	10716.6	11005.9	11295.1	11230.5	11685.0	12266.0
60°	5531.3	5657.9	6685.6	9242.1	11258.9	12353.8	13007.2	12552.7	13293.8	13738.0
62.5°	4909.0	4989.0	5970.3	8421.0	11421.6	13306.7	14414.5	13797.3	14440.3	14982.6
65°	3935.5	4152.4	4963.2	7191.8	10347.4	13482.3	15292.5	14566.9	15189.2	15545.6
66°	3581.7	3739.2	4482.9	6541.0	9735.4	13190.5	15145.3	14727.0	15297.7	15623.0
67.5°	2972.3	3109.1	3700.5	5614.0	8482.9	12547.5	15248.6	14618.5	15380.3	15181.5
70°	1967.7	2055.5	2530.7	3796.0	5908.4	10264.7	14143.4	13771.5	13521.0	12774.7
72.5°	919.3	1045.8	1580.4	2300.8	3465.5	7181.4	11532.6	11034.3	9482.3	8289.3
75°	415.8	472.6	867.7	1319.6	1554.6	3721.1	7439.7	6719.2	4720.5	3920.0
77.5°	224.7	255.6	423.5	627.5	565.5	1304.1	3682.4	3062.6	1487.4	1089.7
80°	173.0	204.0	353.8	358.9	209.2	338.3	1368.6	947.7	371.9	281.5
82.5°	90.4	129.1	278.9	232.4	105.9	136.9	423.5	263.4	116.2	93.0
85°	36.2	56.8	157.5	154.9	62.0	46.5	118.8	80.1	46.5	38.7
87.5°	2.6	2.6	85.2	59.4	38.7	12.9	18.1	18.1	23.2	20.7
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°
2737.3	0°	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3
2757.9	2.5°	2804.4	2835.4	2840.6	2925.8	2943.8	2925.8	2972.3	2964.5	2985.2	2969.7
2804.4	5°	2869.0	2912.9	2998.1	3062.6	3062.6	3011.0	2969.7	2915.4	2835.4	2814.7
2894.8	7.5°	2980.0	3119.4	3196.9	3155.6	3073.0	2879.3	2610.7	2414.5	2249.2	2187.2
3011.0	10°	3176.3	3253.7	3344.1	3176.3	2832.8	2422.2	1970.3	1673.3	1440.9	1389.3
3147.9	12.5°	3302.8	3426.7	3478.4	3062.6	2388.6	1776.6	1286.0	950.3	787.6	663.7
3292.5	15°	3468.1	3610.1	3504.2	2755.3	1882.5	1164.6	666.2	415.8	338.3	317.6
3390.6	17.5°	3581.7	3736.6	3398.3	2373.2	1335.1	619.8	330.5	286.6	281.5	284.1
3496.5	20°	3780.5	3873.5	3238.2	1929.0	797.9	317.6	266.0	255.6	250.5	258.2
3568.8	22.5°	3855.4	3940.6	2977.4	1397.0	358.9	211.8	198.8	191.1	196.3	193.7
3612.7	25°	3850.2	3894.1	2548.8	800.5	105.9	82.6	74.9	74.9	69.7	72.3
3540.4	27.5°	3889.0	3780.5	2068.4	237.6	0.0	0.0	0.0	0.0	0.0	0.0
3555.9	30°	3909.6	3597.2	1471.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3646.2	32.5°	3920.0	3501.6	947.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3775.4	35°	4000.0	3310.5	405.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3984.5	37.5°	4054.2	3065.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4377.0	40°	4278.9	2987.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4965.8	42.5°	4570.7	2843.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5841.2	45°	4976.1	2628.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6843.2	47.5°	5513.3	2502.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7780.5	50°	5913.5	2303.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8836.7	52.5°	6422.2	2184.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10071.1	55°	7026.5	2189.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11116.9	57.5°	7576.5	2153.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11935.5	60°	7858.0	1841.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12524.3	62.5°	7798.6	1490.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12702.4	65°	7592.0	1169.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12428.7	66°	7450.0	1035.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12062.0	67.5°	7018.8	828.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9430.6	70°	5585.6	568.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5949.7	72.5°	3553.3	348.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2605.6	75°	1637.2	160.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
756.6	77.5°	513.9	98.1	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.8	80°	134.3	62.0	20.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5	82.5°	69.7	43.9	18.1	7.7	5.2	0.0	0.0	0.0	0.0	0.0
36.2	85°	43.9	18.1	7.7	5.2	5.2	0.0	0.0	0.0	0.0	0.0
25.8	87.5°	38.7	10.3	5.2	5.2	2.6	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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