

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: P575123

Luminaire Tested: **EPH-VN-03-730-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575123
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

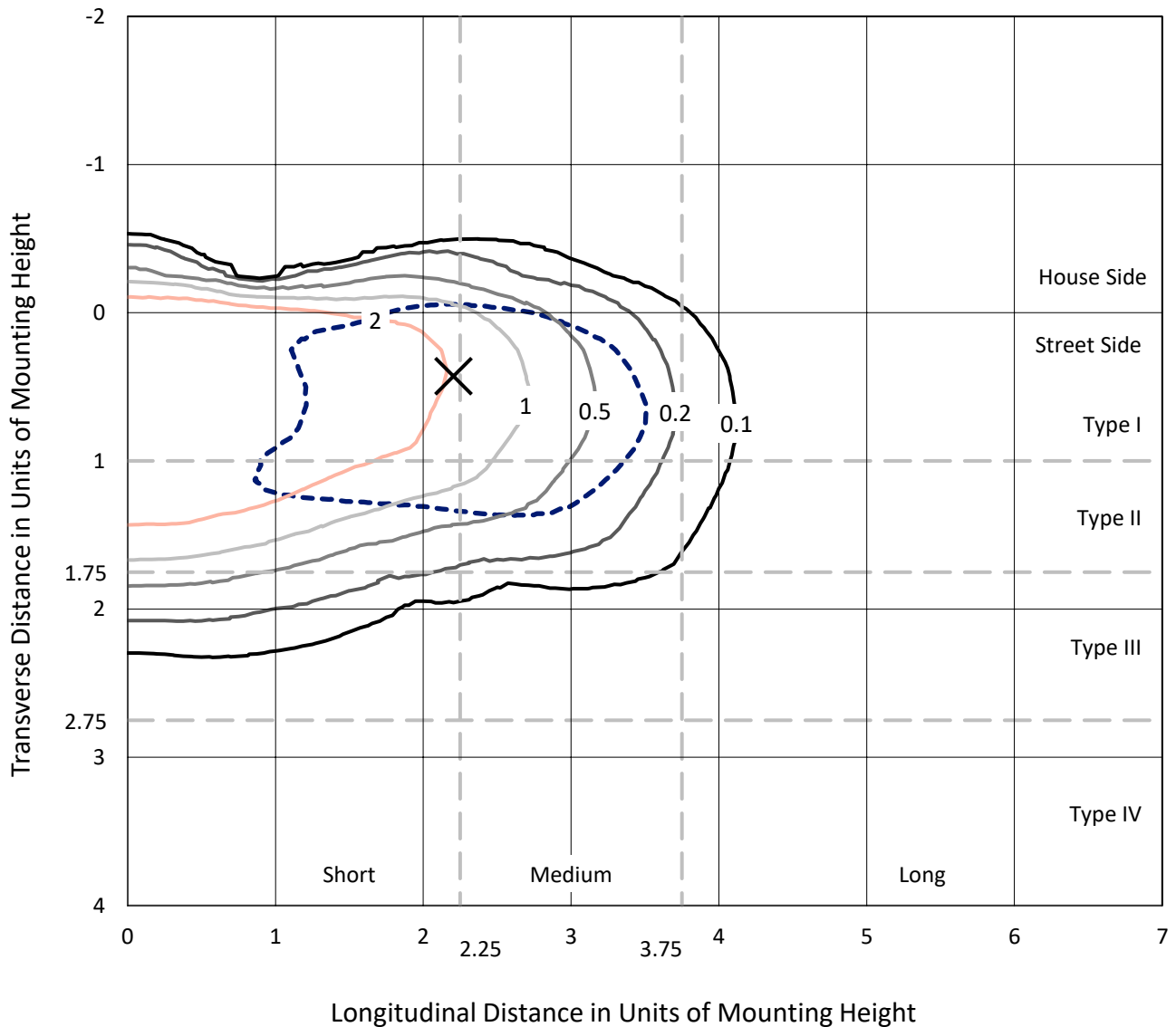
Lumens per Lamp: N/A
Luminaire Lumens: 15284.2 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

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

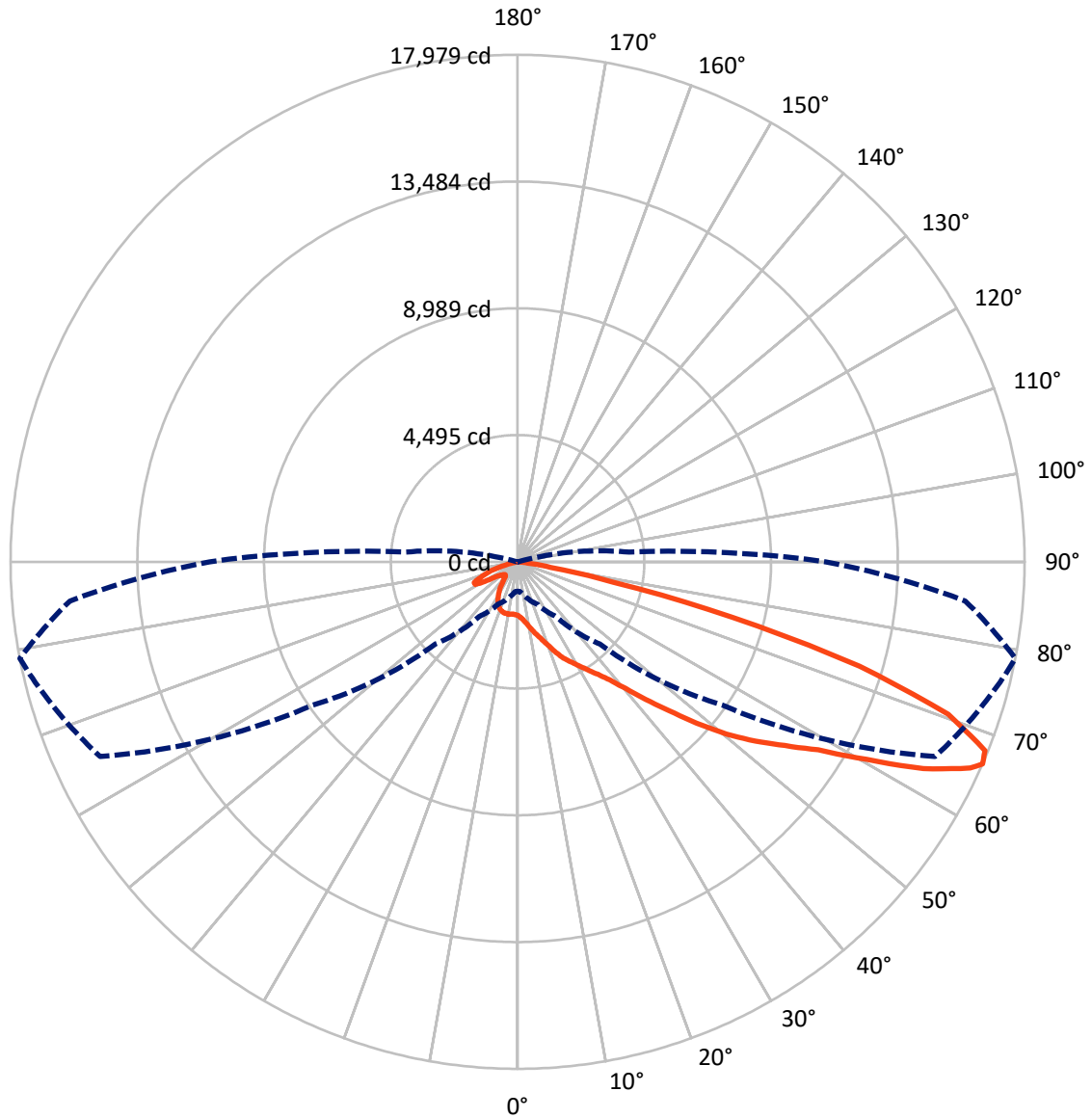
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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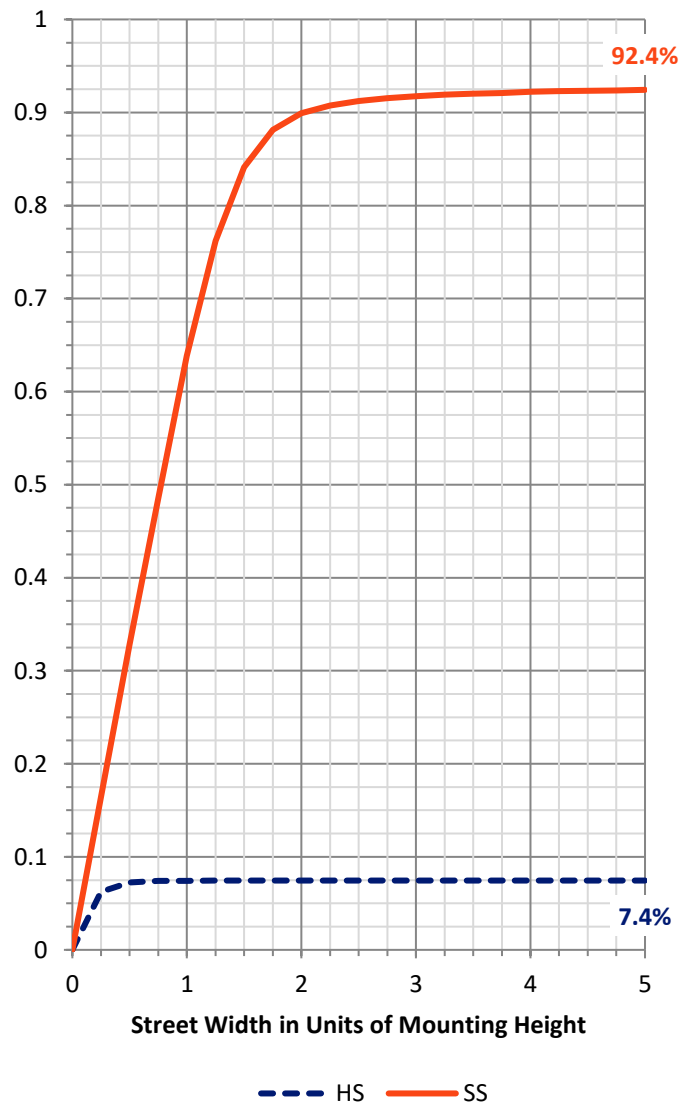
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1147.6	0.0	1147.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14136.6	0.0	14136.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	15284.2	0.0	15284.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	1.2
10°-20°	494.9	3.2
20°-30°	822.2	5.4
30°-40°	1412.2	9.2
40°-50°	2558.4	16.7
50°-60°	4044.1	26.5
60°-70°	4115.2	26.9
70°-80°	1569.3	10.3
80°-90°	88.0	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°	15284.2	100.0
0°-180°	15284.2	100.0

Coefficient of Utilization



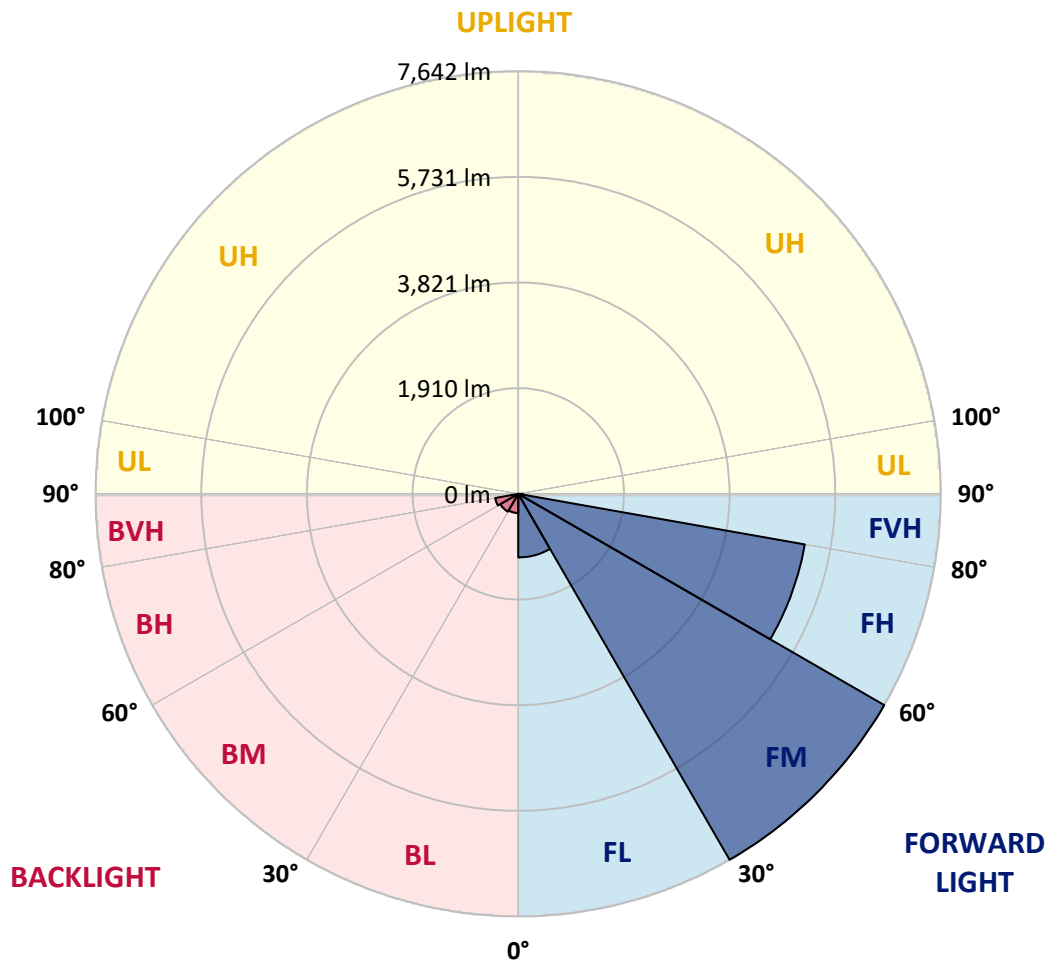
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.9	7.5			
FM (30°-60°)	7641.7	50.0			
FH (60°-80°)	5261.4	34.4			G3/7500
FVH (80°-90°)	83.5	0.5			G1/100
BL (0°-30°)	347.1	2.3	B1/500		
BM (30°-60°)	373.0	2.4	B1/1000		
BH (60°-80°)	423.1	2.8	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5
2.5°	2153.7	2151.3	2141.9	2125.4	2104.2	2097.1	2066.5	2024.1	2000.5	1974.6
5°	2302.1	2290.3	2318.6	2306.8	2311.5	2255.0	2217.3	2186.6	2097.1	2061.8
7.5°	2335.1	2346.9	2344.5	2363.4	2382.2	2403.4	2377.5	2332.7	2243.2	2191.4
10°	2335.1	2330.4	2349.2	2375.2	2429.3	2476.5	2547.2	2488.3	2419.9	2358.7
12.5°	2292.7	2285.6	2304.5	2358.7	2455.3	2551.9	2629.6	2686.2	2589.6	2540.1
15°	2163.1	2156.0	2233.8	2330.4	2457.6	2615.5	2778.1	2870.0	2804.0	2726.2
17.5°	2002.9	2012.3	2094.8	2255.0	2457.6	2646.1	2853.5	3053.8	3044.3	2945.4
20°	1948.7	1955.7	2038.2	2153.7	2384.6	2667.3	2971.3	3254.1	3310.6	3192.8
22.5°	2052.3	2045.3	2052.3	2123.0	2335.1	2648.5	3049.1	3482.6	3583.9	3492.0
25°	2405.8	2401.1	2342.2	2233.8	2306.8	2606.1	3089.1	3633.4	3866.7	3781.9
27.5°	2924.2	2905.3	2813.4	2587.2	2438.8	2632.0	3155.1	3779.5	4114.1	4017.5
30°	3480.3	3435.5	3315.3	3032.6	2780.4	2728.6	3192.8	3887.9	4389.8	4267.3
32.5°	3864.3	3923.2	3885.5	3598.1	3211.6	2952.4	3254.1	4024.6	4644.3	4564.2
35°	4458.1	4526.5	4368.6	4114.1	3725.3	3308.2	3383.7	4135.3	5035.4	4901.1
37.5°	5207.4	5259.3	5146.2	4663.1	4253.1	3746.5	3649.9	4366.2	5372.4	5308.8
40°	5584.4	5834.2	5674.0	5238.1	4797.4	4359.2	4090.5	4637.2	5959.1	5907.3
42.5°	6105.2	6230.1	6147.6	5824.8	5365.3	5014.2	4634.8	5165.0	6670.7	6670.7
45°	6656.6	6661.3	6656.6	6392.6	5985.0	5803.6	5370.0	5827.1	7436.5	7521.3
47.5°	7109.0	7250.3	7238.6	7080.7	6764.9	6696.6	6105.2	6581.2	8397.9	8546.3
50°	7342.2	7500.1	7547.2	7629.7	7615.6	7759.3	6908.7	7455.3	9227.3	9592.5
52.5°	7278.6	7290.4	7580.2	7905.4	8423.8	8826.7	7877.1	8447.3	10198.1	10558.6
55°	6757.9	6713.1	7309.3	7681.5	8753.7	9479.4	9217.9	9684.4	10954.5	11503.5
57.5°	5615.1	5626.9	6178.2	6934.6	8508.6	9738.6	10650.5	11300.8	12014.8	12568.5
60°	3876.1	3862.0	4479.3	5353.5	7068.9	9255.6	11475.2	13395.6	13433.3	14217.9
62.5°	2179.6	2184.3	2653.2	3400.1	4945.9	7563.7	11435.1	15619.9	15459.7	16147.7
65°	1234.7	1265.3	1588.1	2014.6	2961.9	5077.8	9835.2	16505.9	17021.9	17634.6
66°	1043.8	1065.0	1340.7	1663.5	2363.4	4118.8	8852.6	16333.9	17512.0	17978.6
67.5°	808.2	836.5	1067.4	1319.5	1734.2	2851.1	7125.5	15478.6	17601.6	17874.9
70°	553.7	572.6	749.3	1001.4	1185.2	1458.6	4260.2	12797.1	15971.0	16201.9
72.5°	388.8	398.2	525.5	758.7	911.9	834.1	2113.6	9104.8	12222.1	12672.2
75°	280.4	289.8	360.5	544.3	711.6	546.7	968.4	5815.4	7495.4	7848.8
77.5°	202.6	214.4	245.1	351.1	516.0	384.1	476.0	3037.3	3534.5	3473.2
80°	122.5	134.3	181.4	226.2	377.0	271.0	261.5	1267.7	1253.6	1189.9
82.5°	56.6	66.0	96.6	153.2	263.9	188.5	124.9	452.4	395.9	362.9
85°	16.5	21.2	56.6	115.5	134.3	91.9	75.4	155.5	162.6	139.0
87.5°	0.0	2.4	25.9	28.3	40.1	30.6	28.3	40.1	75.4	61.3
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°
1901.5	0°	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5
1962.8	2.5°	1920.4	1903.9	1863.8	1802.6	1748.4	1720.1	1680.0	1644.7	1625.8	1623.5
2005.2	5°	1967.5	1922.7	1826.1	1715.4	1632.9	1543.4	1482.1	1437.3	1394.9	1354.9
2130.1	7.5°	2031.1	1960.4	1802.6	1658.8	1479.8	1364.3	1255.9	1192.3	1154.6	1119.2
2247.9	10°	2130.1	2040.6	1786.1	1526.9	1321.9	1152.2	1041.5	949.6	897.8	836.5
2396.4	12.5°	2264.4	2104.2	1724.8	1406.7	1142.8	963.7	805.9	657.4	574.9	511.3
2566.0	15°	2398.7	2189.0	1668.3	1260.6	980.2	744.6	513.7	412.4	388.8	374.7
2778.1	17.5°	2530.7	2257.3	1581.1	1112.2	794.1	473.6	374.7	353.4	341.7	327.5
2973.7	20°	2690.9	2302.1	1472.7	975.5	546.7	351.1	320.5	306.3	287.5	268.6
3230.5	22.5°	2846.4	2339.8	1347.8	801.1	367.6	304.0	268.6	249.8	233.3	214.4
3437.8	25°	3001.9	2351.6	1185.2	574.9	296.9	242.7	209.7	183.8	167.3	150.8
3624.0	27.5°	3108.0	2278.5	1032.1	367.6	238.0	183.8	146.1	124.9	110.7	94.3
3786.6	30°	3169.2	2144.2	867.1	259.2	179.1	124.9	87.2	66.0	51.8	40.1
4064.6	32.5°	3230.5	2035.8	681.0	197.9	117.8	66.0	33.0	11.8	0.0	0.0
4323.8	35°	3353.0	1913.3	457.1	110.7	40.1	2.4	0.0	0.0	0.0	0.0
4656.1	37.5°	3430.8	1743.7	209.7	16.5	0.0	0.0	0.0	0.0	0.0	0.0
5115.5	40°	3626.4	1658.8	51.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5737.6	42.5°	3944.5	1599.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6482.2	45°	4293.2	1576.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7207.9	47.5°	4757.4	1640.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8141.0	50°	5247.5	1812.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8862.1	52.5°	5784.7	1974.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9606.6	55°	6253.6	2170.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10652.8	57.5°	7116.0	2632.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12530.8	60°	8664.1	3539.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14665.6	62.5°	10407.8	4213.1	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15961.6	65°	11046.3	4196.6	44.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
15935.7	66°	10933.2	3965.7	44.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
15485.6	67.5°	10346.5	3522.7	40.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0
13459.2	70°	8885.6	2910.0	40.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0
10469.1	72.5°	6774.4	2266.8	37.7	9.4	2.4	0.0	0.0	0.0	0.0	0.0
6305.5	75°	4088.2	1206.4	30.6	11.8	4.7	0.0	0.0	0.0	0.0	0.0
2712.1	77.5°	1628.2	424.1	23.6	9.4	4.7	0.0	0.0	0.0	0.0	0.0
853.0	80°	440.6	127.2	14.1	9.4	7.1	2.4	0.0	0.0	0.0	0.0
240.3	82.5°	115.5	47.1	11.8	9.4	4.7	2.4	0.0	0.0	0.0	0.0
80.1	85°	44.8	18.9	9.4	7.1	7.1	4.7	2.4	0.0	0.0	0.0
25.9	87.5°	14.1	7.1	7.1	4.7	4.7	2.4	2.4	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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