

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: P575135

Luminaire Tested: **EPH-VN-03-740-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575135
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-740-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

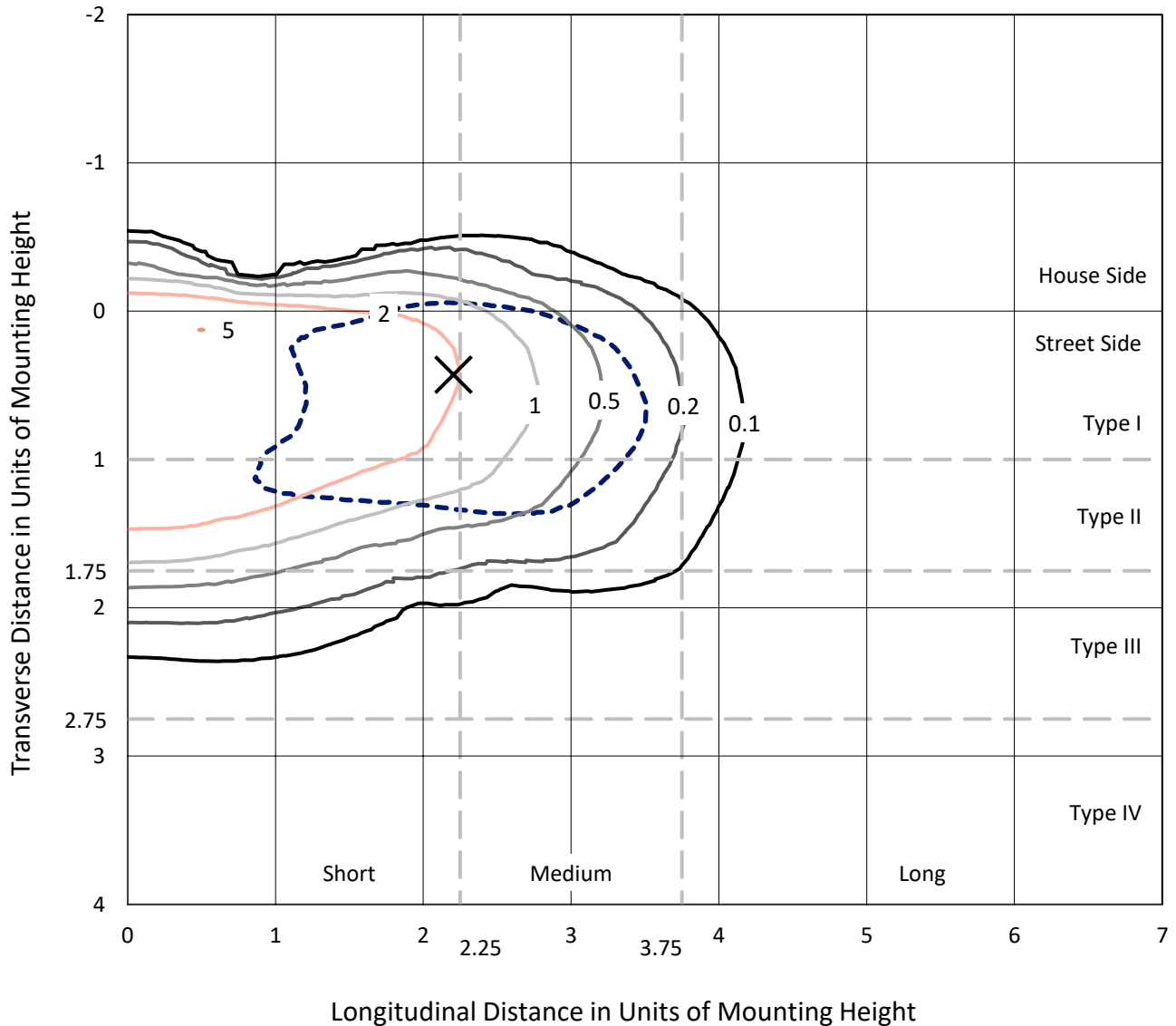
Lumens per Lamp: N/A
Luminaire Lumens: 16784.8 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

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

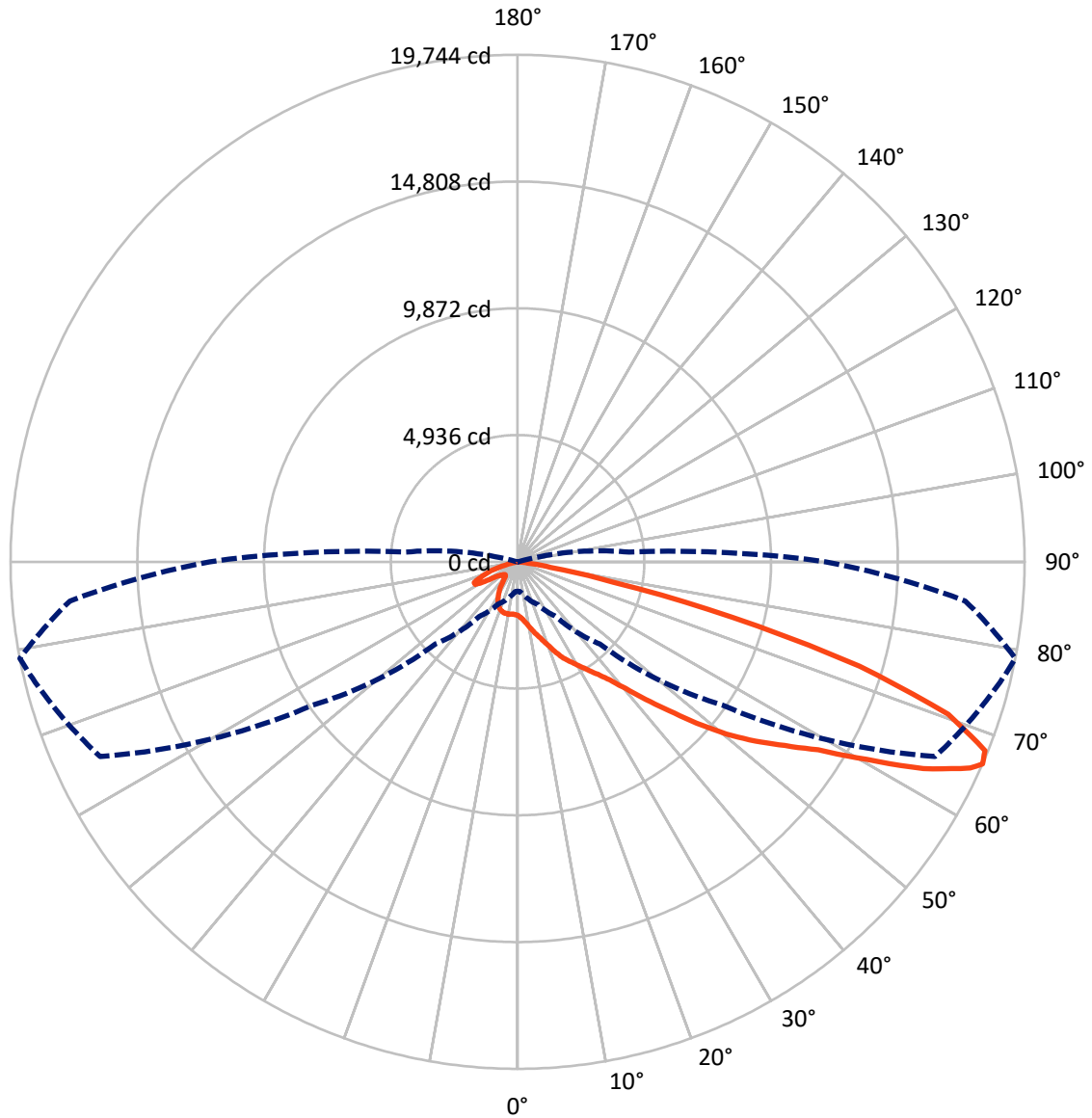
× Max cd
 - - - 1/2 Max cd



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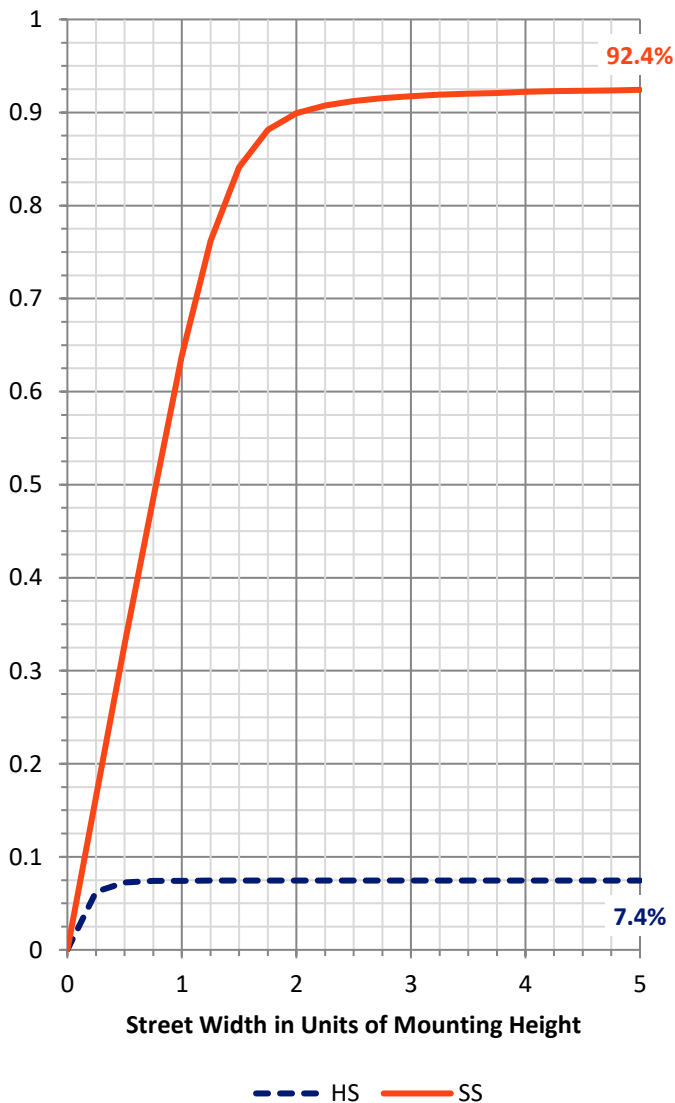
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1260.3	0.0	1260.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15524.4	0.0	15524.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	16784.8	0.0	16784.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	1.2
10°-20°	543.5	3.2
20°-30°	902.9	5.4
30°-40°	1550.9	9.2
40°-50°	2809.6	16.7
50°-60°	4441.1	26.5
60°-70°	4519.2	26.9
70°-80°	1723.4	10.3
80°-90°	96.6	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°	16784.8	100.0
0°-180°	16784.8	100.0

Coefficient of Utilization



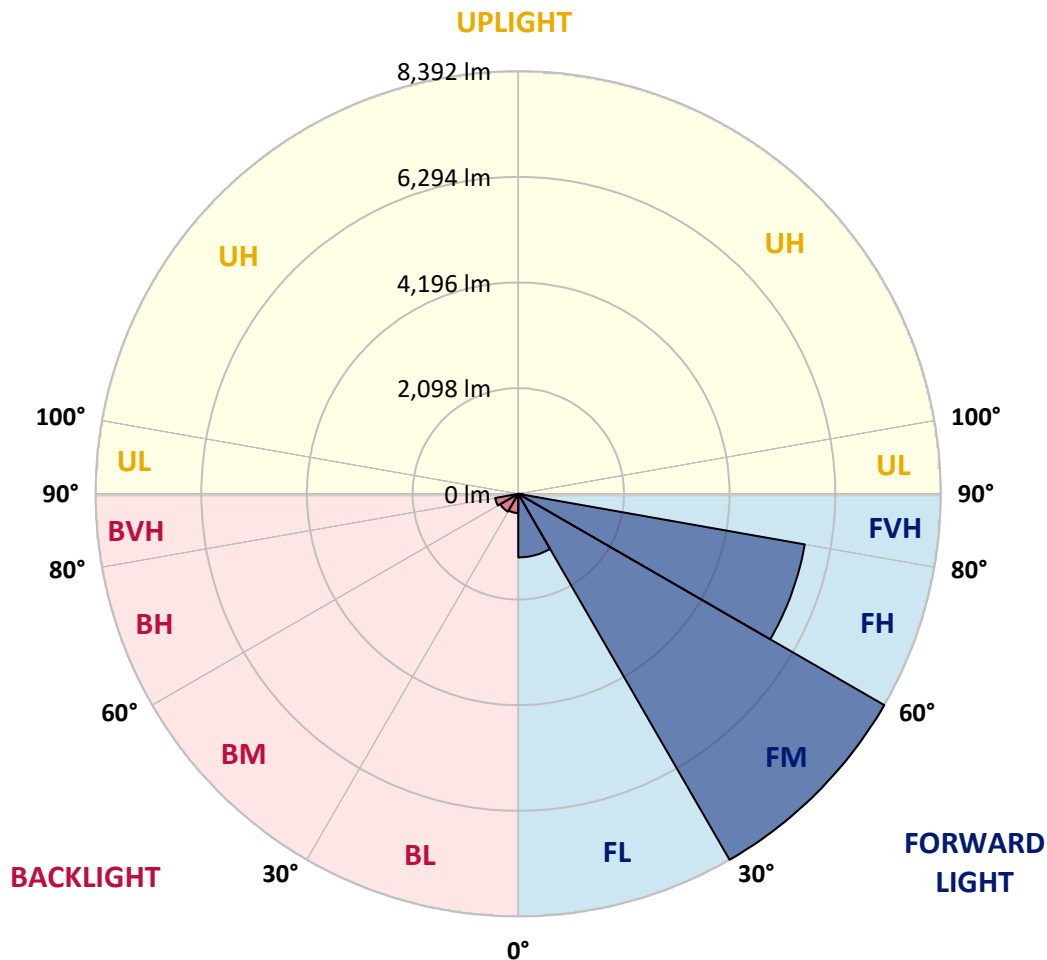
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.8	7.5			
FM (30°-60°)	8392.0	50.0			
FH (60°-80°)	5778.0	34.4			G3/7500
FVH (80°-90°)	91.7	0.5			G1/100
BL (0°-30°)	381.1	2.3	B1/500		
BM (30°-60°)	409.6	2.4	B1/1000		
BH (60°-80°)	464.6	2.8	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2
2.5°	2365.1	2362.5	2352.2	2334.0	2310.8	2303.0	2269.4	2222.8	2196.9	2168.4
5°	2528.1	2515.2	2546.2	2533.3	2538.5	2476.4	2435.0	2401.3	2303.0	2264.2
7.5°	2564.3	2577.3	2574.7	2595.4	2616.1	2639.4	2610.9	2561.8	2463.4	2406.5
10°	2564.3	2559.2	2579.9	2608.3	2667.9	2719.6	2797.2	2732.5	2657.5	2590.2
12.5°	2517.8	2510.0	2530.7	2590.2	2696.3	2802.4	2887.8	2949.9	2843.8	2789.5
15°	2375.5	2367.7	2453.1	2559.2	2698.9	2872.3	3050.8	3151.7	3079.3	2993.9
17.5°	2199.5	2209.8	2300.4	2476.4	2698.9	2905.9	3133.6	3353.6	3343.2	3234.5
20°	2140.0	2147.7	2238.3	2365.1	2618.7	2929.2	3263.0	3573.5	3635.6	3506.2
22.5°	2253.8	2246.1	2253.8	2331.5	2564.3	2908.5	3348.4	3824.5	3935.8	3834.9
25°	2642.0	2636.8	2572.1	2453.1	2533.3	2861.9	3392.4	3990.1	4246.3	4153.2
27.5°	3211.3	3190.6	3089.6	2841.2	2678.2	2890.4	3464.8	4150.6	4518.0	4411.9
30°	3821.9	3772.8	3640.8	3330.3	3053.4	2996.5	3506.2	4269.6	4820.8	4686.2
32.5°	4243.7	4308.4	4267.0	3951.3	3527.0	3242.3	3573.5	4419.7	5100.2	5012.3
35°	4895.8	4970.9	4797.5	4518.0	4091.1	3633.0	3715.8	4541.3	5529.8	5382.3
37.5°	5718.7	5775.6	5651.4	5120.9	4670.7	4114.3	4008.3	4794.9	5899.8	5829.9
40°	6132.7	6407.0	6231.0	5752.3	5268.4	4787.1	4492.1	5092.5	6544.1	6487.2
42.5°	6704.6	6841.7	6751.1	6396.6	5892.1	5506.5	5089.9	5672.1	7325.6	7325.6
45°	7310.1	7315.3	7310.1	7020.3	6572.6	6373.4	5897.2	6399.2	8166.6	8259.7
47.5°	7806.9	7962.2	7949.2	7775.9	7429.1	7354.1	6704.6	7227.3	9222.3	9385.4
50°	8063.1	8236.5	8288.2	8378.8	8363.2	8521.1	7587.0	8187.3	10133.2	10534.3
52.5°	7993.2	8006.2	8324.4	8681.5	9250.8	9693.3	8650.5	9276.7	11199.3	11595.2
55°	7421.3	7372.2	8026.9	8435.7	9613.1	10410.1	10122.8	10635.2	12029.9	12632.8
57.5°	6166.3	6179.3	6784.8	7615.4	9344.0	10694.7	11696.1	12410.3	13194.4	13802.5
60°	4256.7	4241.1	4919.1	5879.1	7762.9	10164.2	12601.8	14710.7	14752.1	15613.8
62.5°	2393.6	2398.7	2913.7	3734.0	5431.5	8306.3	12557.8	17153.5	16977.5	17733.1
65°	1355.9	1389.6	1744.1	2212.4	3252.7	5576.4	10800.8	18126.4	18693.1	19365.9
66°	1146.3	1169.6	1472.4	1826.9	2595.4	4523.2	9721.8	17937.5	19231.3	19743.7
67.5°	887.6	918.6	1172.2	1449.1	1904.5	3131.0	7825.0	16998.2	19329.7	19629.8
70°	608.1	628.8	822.9	1099.7	1301.6	1601.7	4678.4	14053.5	17539.0	17792.6
72.5°	427.0	437.3	577.0	833.2	1001.4	916.0	2321.1	9998.6	13422.1	13916.3
75°	307.9	318.3	395.9	597.7	781.5	600.3	1063.5	6386.3	8231.3	8619.4
77.5°	222.5	235.5	269.1	385.6	566.7	421.8	522.7	3335.5	3881.5	3814.2
80°	134.6	147.5	199.2	248.4	414.0	297.6	287.2	1392.1	1376.6	1306.8
82.5°	62.1	72.5	106.1	168.2	289.8	207.0	137.1	496.8	434.7	398.5
85°	18.1	23.3	62.1	126.8	147.5	100.9	82.8	170.8	178.5	152.7
87.5°	0.0	2.6	28.5	31.1	44.0	33.6	31.1	44.0	82.8	67.3
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°
2088.2	0°	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2	2088.2
2155.5	2.5°	2108.9	2090.8	2046.8	1979.5	1920.0	1889.0	1845.0	1806.2	1785.5	1782.9
2202.1	5°	2160.7	2111.5	2005.4	1883.8	1793.2	1694.9	1627.6	1578.5	1531.9	1487.9
2339.2	7.5°	2230.5	2152.9	1979.5	1821.7	1625.0	1498.2	1379.2	1309.3	1267.9	1229.1
2468.6	10°	2339.2	2240.9	1961.4	1676.8	1451.7	1265.4	1143.7	1042.8	985.9	918.6
2631.6	12.5°	2486.7	2310.8	1894.2	1544.8	1255.0	1058.3	885.0	722.0	631.4	561.5
2817.9	15°	2634.2	2403.9	1832.0	1384.4	1076.5	817.7	564.1	452.8	427.0	411.4
3050.8	17.5°	2779.1	2479.0	1736.3	1221.4	872.0	520.1	411.4	388.1	375.2	359.7
3265.6	20°	2955.1	2528.1	1617.3	1071.3	600.3	385.6	351.9	336.4	315.7	295.0
3547.7	22.5°	3125.9	2569.5	1480.1	879.8	403.7	333.8	295.0	274.3	256.2	235.5
3775.4	25°	3296.7	2582.5	1301.6	631.4	326.0	266.5	230.3	201.8	183.7	165.6
3979.8	27.5°	3413.1	2502.2	1133.4	403.7	261.4	201.8	160.4	137.1	121.6	103.5
4158.3	30°	3480.4	2354.8	952.3	284.6	196.7	137.1	95.7	72.5	56.9	44.0
4463.7	32.5°	3547.7	2235.7	747.8	217.4	129.4	72.5	36.2	12.9	0.0	0.0
4748.3	35°	3682.2	2101.2	502.0	121.6	44.0	2.6	0.0	0.0	0.0	0.0
5113.2	37.5°	3767.6	1914.9	230.3	18.1	0.0	0.0	0.0	0.0	0.0	0.0
5617.8	40°	3982.4	1821.7	56.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6300.9	42.5°	4331.7	1757.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7118.6	45°	4714.7	1731.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7915.6	47.5°	5224.4	1801.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8940.3	50°	5762.7	1989.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9732.1	52.5°	6352.7	2168.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10549.8	55°	6867.6	2383.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11698.7	57.5°	7814.7	2890.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13761.1	60°	9514.7	3886.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16105.5	62.5°	11429.6	4626.7	28.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17528.7	65°	12130.8	4608.6	49.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
17500.2	66°	12006.6	4355.0	49.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
17006.0	67.5°	11362.3	3868.5	44.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0
14780.6	70°	9758.0	3195.7	44.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
11496.9	72.5°	7439.5	2489.3	41.4	10.4	2.6	0.0	0.0	0.0	0.0	0.0
6924.5	75°	4489.6	1324.9	33.6	12.9	5.2	0.0	0.0	0.0	0.0	0.0
2978.4	77.5°	1788.1	465.8	25.9	10.4	5.2	0.0	0.0	0.0	0.0	0.0
936.7	80°	483.9	139.7	15.5	10.4	7.8	2.6	0.0	0.0	0.0	0.0
263.9	82.5°	126.8	51.8	12.9	10.4	5.2	2.6	0.0	0.0	0.0	0.0
88.0	85°	49.2	20.7	10.4	7.8	7.8	5.2	2.6	0.0	0.0	0.0
28.5	87.5°	15.5	7.8	7.8	5.2	5.2	2.6	2.6	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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