

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: P575129

Luminaire Tested: **EPH-VN-03-735-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575129
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-735-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

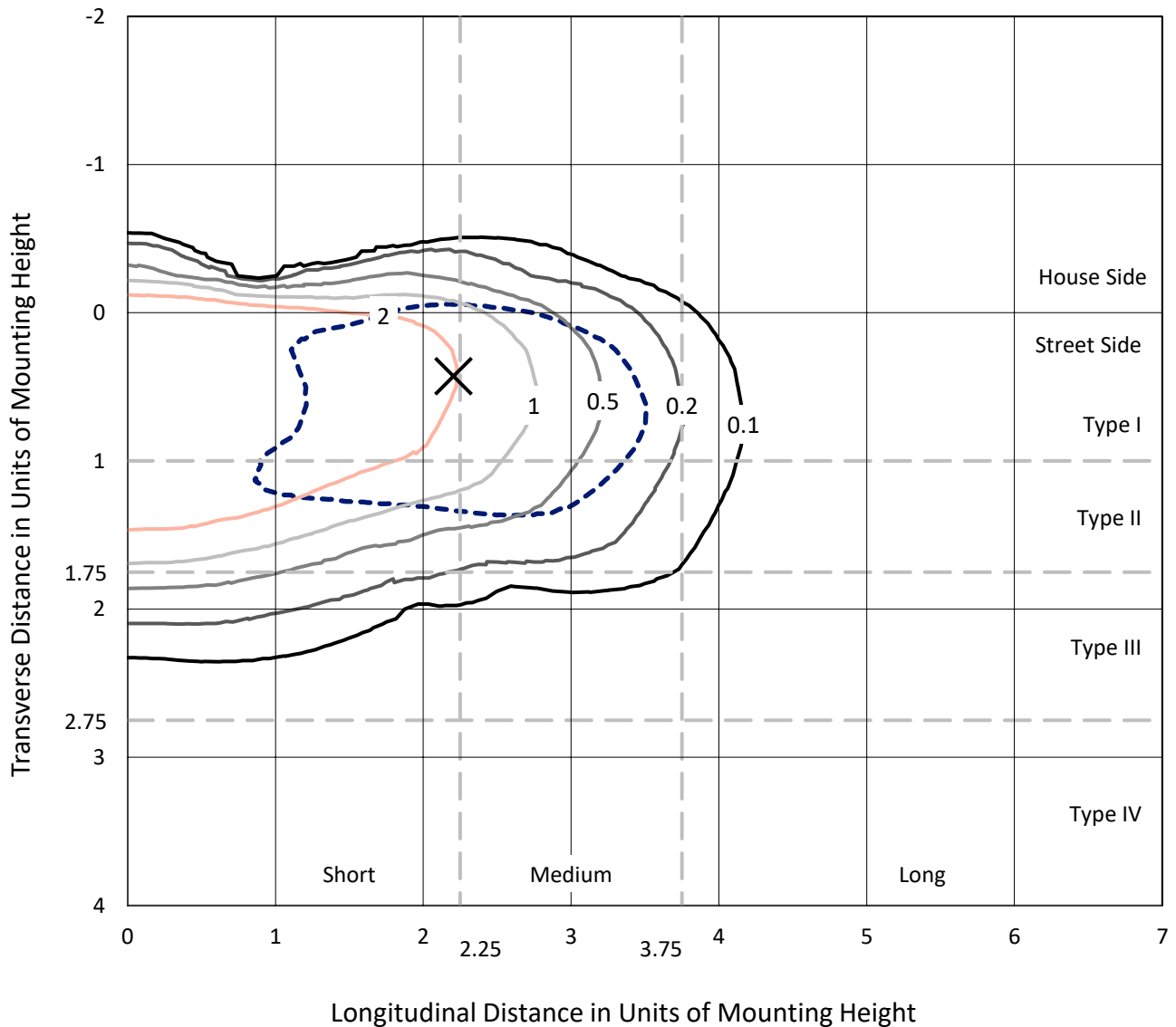
Lumens per Lamp: N/A
Luminaire Lumens: 16554.8 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

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

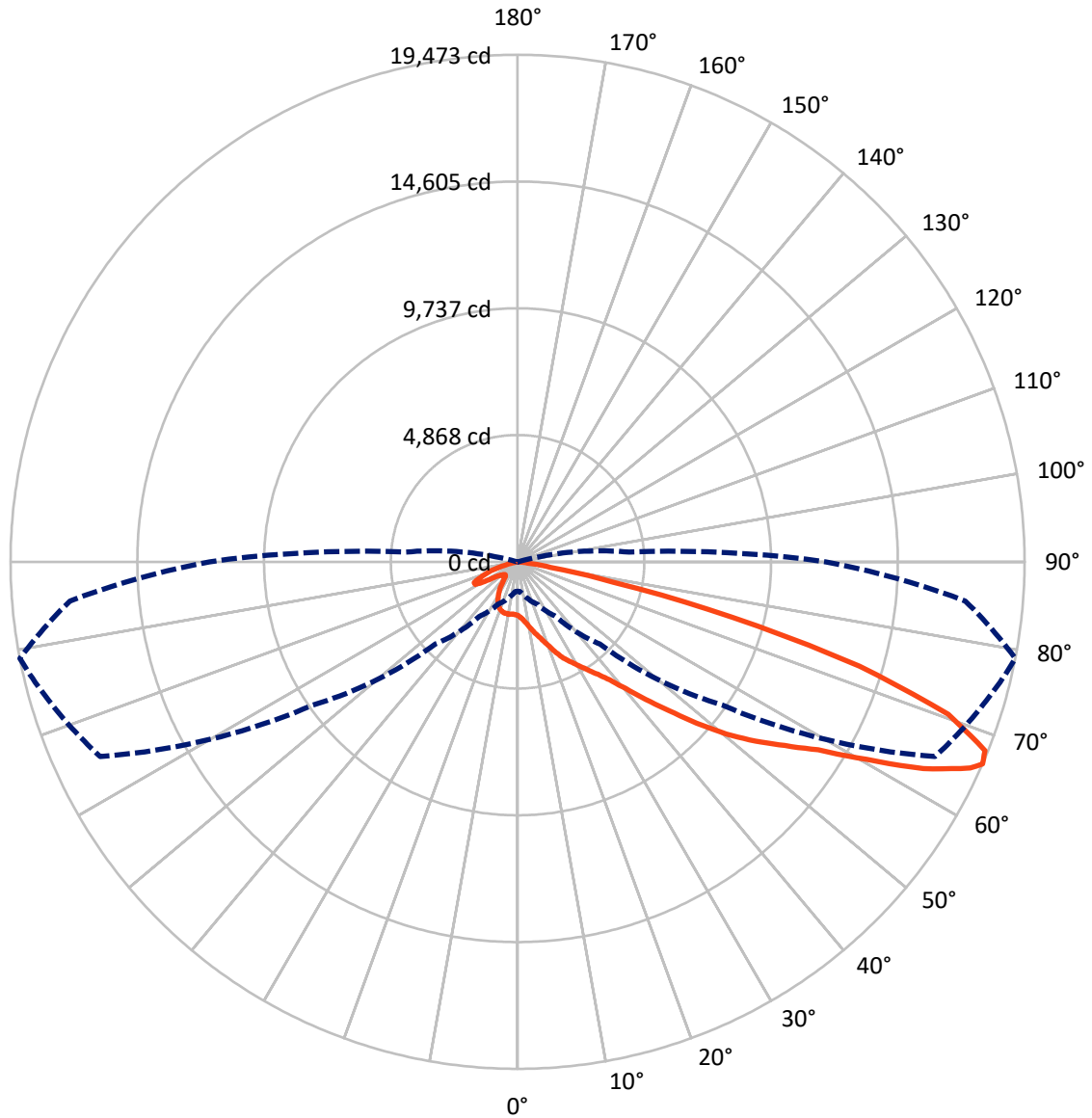
× Max cd
 - - - 1/2 Max cd



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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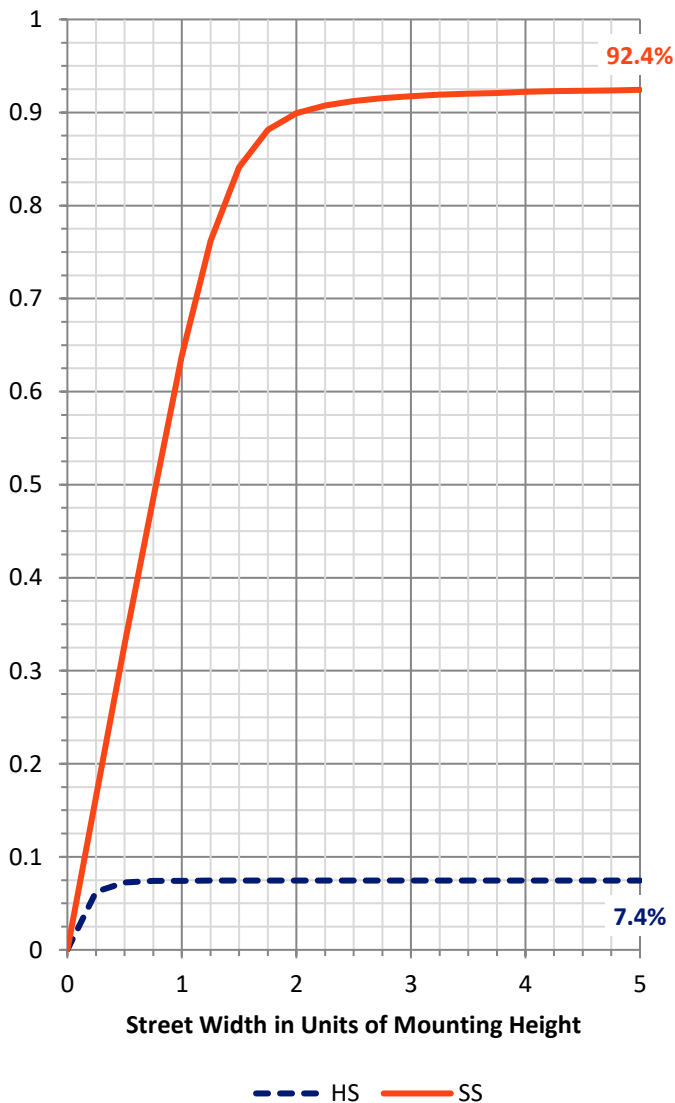
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1243.0	0.0	1243.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15311.8	0.0	15311.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	16554.8	0.0	16554.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	1.2
10°-20°	536.1	3.2
20°-30°	890.5	5.4
30°-40°	1529.6	9.2
40°-50°	2771.1	16.7
50°-60°	4380.3	26.5
60°-70°	4457.3	26.9
70°-80°	1699.8	10.3
80°-90°	95.3	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°	16554.8	100.0
0°-180°	16554.8	100.0

Coefficient of Utilization

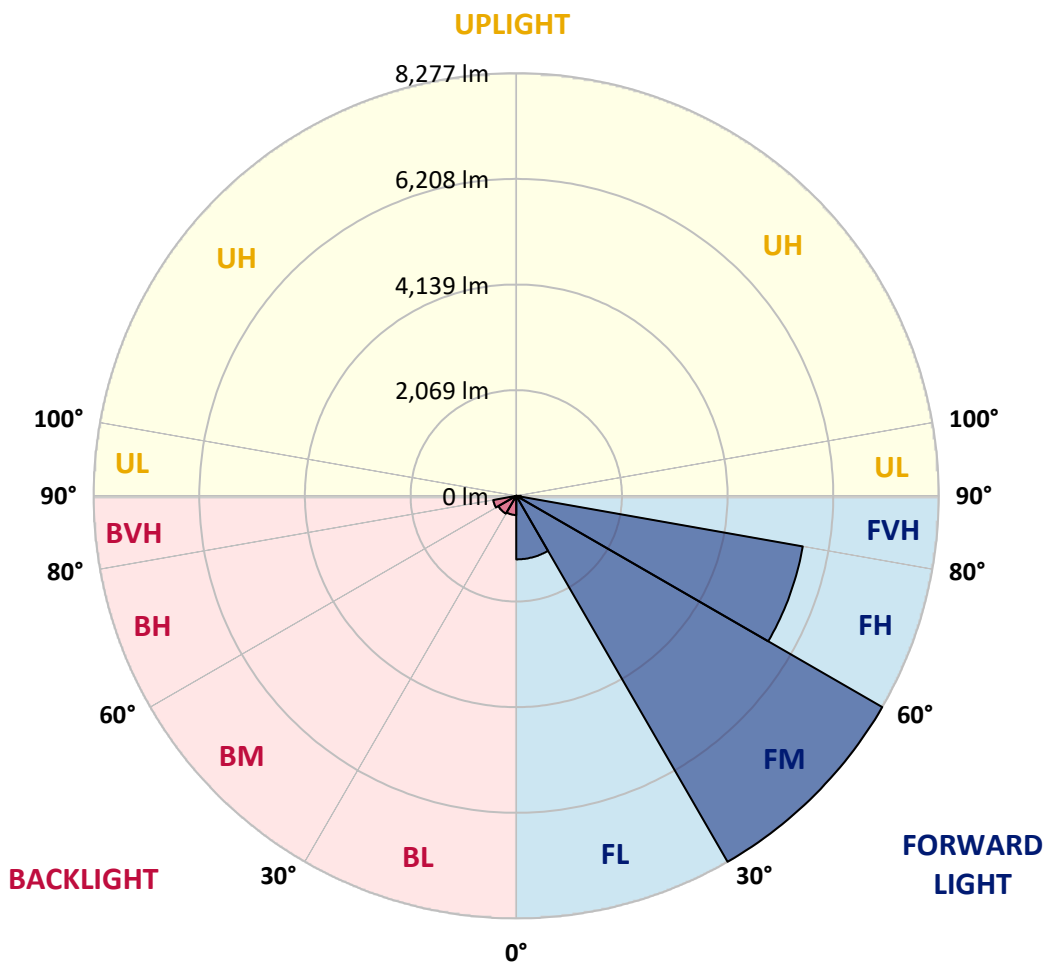


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.5	7.5			
FM (30°-60°)	8277.0	50.0			
FH (60°-80°)	5698.8	34.4			G3/7500
FVH (80°-90°)	90.4	0.5			G1/100
BL (0°-30°)	375.9	2.3	B1/500		
BM (30°-60°)	404.0	2.4	B1/1000		
BH (60°-80°)	458.2	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°	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6
2.5°	2332.7	2330.1	2319.9	2302.1	2279.1	2271.4	2238.3	2192.3	2166.8	2138.7
5°	2493.5	2480.7	2511.4	2498.6	2503.7	2442.4	2401.6	2368.4	2271.4	2233.2
7.5°	2529.2	2542.0	2539.4	2559.8	2580.3	2603.2	2575.2	2526.7	2429.7	2373.5
10°	2529.2	2524.1	2544.5	2572.6	2631.3	2682.3	2758.9	2695.1	2621.1	2554.7
12.5°	2483.3	2475.6	2496.0	2554.7	2659.4	2764.0	2848.2	2909.5	2804.9	2751.3
15°	2342.9	2335.3	2419.5	2524.1	2661.9	2832.9	3009.0	3108.6	3037.1	2952.9
17.5°	2169.4	2179.6	2268.9	2442.4	2661.9	2866.1	3090.7	3307.6	3297.4	3190.2
20°	2110.7	2118.3	2207.6	2332.7	2582.8	2889.1	3218.3	3524.6	3585.8	3458.2
22.5°	2223.0	2215.3	2223.0	2299.5	2529.2	2868.7	3302.5	3772.1	3881.9	3782.3
25°	2605.8	2600.7	2536.9	2419.5	2498.6	2822.7	3345.9	3935.5	4188.1	4096.3
27.5°	3167.3	3146.8	3047.3	2802.3	2641.5	2850.8	3417.4	4093.7	4456.1	4351.5
30°	3769.6	3721.1	3590.9	3284.7	3011.6	2955.4	3458.2	4211.1	4754.7	4622.0
32.5°	4185.6	4249.4	4208.6	3897.2	3478.6	3197.9	3524.6	4359.1	5030.4	4943.6
35°	4828.7	4902.8	4731.8	4456.1	4035.0	3583.3	3664.9	4479.1	5454.0	5308.5
37.5°	5640.3	5696.5	5574.0	5050.8	4606.7	4058.0	3953.3	4729.2	5819.0	5750.1
40°	6048.7	6319.2	6145.7	5673.5	5196.3	4721.5	4430.6	5022.7	6454.5	6398.3
42.5°	6612.7	6748.0	6658.7	6309.0	5811.3	5431.1	5020.2	5594.4	7225.2	7225.2
45°	7209.9	7215.0	7209.9	6924.1	6482.6	6286.0	5816.4	6311.6	8054.7	8146.6
47.5°	7699.9	7853.1	7840.3	7669.3	7327.3	7253.3	6612.7	7128.3	9096.0	9256.8
50°	7952.6	8123.6	8174.7	8264.0	8248.7	8404.4	7483.0	8075.1	9994.4	10390.0
52.5°	7883.7	7896.5	8210.4	8562.6	9124.1	9560.5	8532.0	9149.6	11045.9	11436.4
55°	7319.7	7271.2	7916.9	8320.1	9481.4	10267.4	9984.2	10489.5	11865.1	12459.8
57.5°	6081.9	6094.6	6691.8	7511.1	9215.9	10548.2	11535.9	12240.3	13013.6	13613.4
60°	4198.3	4183.0	4851.7	5798.6	7656.6	10025.0	12429.2	14509.2	14550.0	15399.9
62.5°	2360.8	2365.9	2873.8	3682.8	5357.0	8192.5	12385.8	16918.4	16744.9	17490.1
65°	1337.3	1370.5	1720.2	2182.1	3208.1	5500.0	10652.8	17878.1	18437.0	19100.6
66°	1130.6	1153.6	1452.2	1801.8	2559.8	4461.2	9588.6	17691.8	18967.9	19473.2
67.5°	875.4	906.0	1156.1	1429.2	1878.4	3088.1	7717.8	16765.3	19064.8	19360.9
70°	599.8	620.2	811.6	1084.7	1283.8	1579.8	4614.4	13860.9	17298.7	17548.8
72.5°	421.1	431.3	569.1	821.8	987.7	903.5	2289.3	9861.7	13238.2	13725.7
75°	303.7	313.9	390.5	589.6	770.8	592.1	1048.9	6298.8	8118.5	8501.3
77.5°	219.5	232.2	265.4	380.3	558.9	416.0	515.5	3289.8	3828.3	3761.9
80°	132.7	145.5	196.5	245.0	408.3	293.5	283.3	1373.1	1357.8	1288.9
82.5°	61.3	71.5	104.6	165.9	285.8	204.2	135.3	490.0	428.8	393.0
85°	17.9	23.0	61.3	125.1	145.5	99.5	81.7	168.4	176.1	150.6
87.5°	0.0	2.6	28.1	30.6	43.4	33.2	30.6	43.4	81.7	66.4
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°
2059.6	0°	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6	2059.6
2126.0	2.5°	2080.0	2062.2	2018.8	1952.4	1893.7	1863.1	1819.7	1781.4	1761.0	1758.5
2171.9	5°	2131.1	2082.6	1977.9	1858.0	1768.7	1671.7	1605.3	1556.8	1510.9	1467.5
2307.2	7.5°	2200.0	2123.4	1952.4	1796.7	1602.8	1477.7	1360.3	1291.4	1250.6	1212.3
2434.8	10°	2307.2	2210.2	1934.6	1653.8	1431.8	1248.0	1128.1	1028.5	972.4	906.0
2595.6	12.5°	2452.7	2279.1	1868.2	1523.7	1237.8	1043.8	872.8	712.1	622.7	553.8
2779.3	15°	2598.1	2371.0	1806.9	1365.4	1061.7	806.5	556.4	446.6	421.1	405.8
3009.0	17.5°	2741.0	2445.0	1712.5	1204.6	860.1	513.0	405.8	382.8	370.1	354.8
3220.9	20°	2914.6	2493.5	1595.1	1056.6	592.1	380.3	347.1	331.8	311.4	290.9
3499.0	22.5°	3083.0	2534.3	1459.9	867.7	398.1	329.2	290.9	270.5	252.7	232.2
3723.6	25°	3251.5	2547.1	1283.8	622.7	321.6	262.9	227.1	199.1	181.2	163.3
3925.3	27.5°	3366.3	2468.0	1117.9	398.1	257.8	199.1	158.2	135.3	120.0	102.1
4101.4	30°	3432.7	2322.5	939.2	280.7	194.0	135.3	94.4	71.5	56.1	43.4
4402.5	32.5°	3499.0	2205.1	737.6	214.4	127.6	71.5	35.7	12.8	0.0	0.0
4683.3	35°	3631.8	2072.4	495.1	120.0	43.4	2.6	0.0	0.0	0.0	0.0
5043.1	37.5°	3716.0	1888.6	227.1	17.9	0.0	0.0	0.0	0.0	0.0	0.0
5540.8	40°	3927.8	1796.7	56.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6214.6	42.5°	4272.4	1732.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7021.1	45°	4650.1	1707.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7807.1	47.5°	5152.9	1776.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8817.8	50°	5683.7	1962.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9598.8	52.5°	6265.6	2138.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10405.3	55°	6773.5	2350.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11538.4	57.5°	7707.6	2850.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13572.5	60°	9384.4	3833.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15884.8	62.5°	11273.0	4563.3	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17288.5	65°	11964.7	4545.4	48.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
17260.4	66°	11842.1	4295.3	48.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
16773.0	67.5°	11206.7	3815.5	43.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0
14578.1	70°	9624.3	3152.0	43.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
11339.4	72.5°	7337.5	2455.2	40.8	10.2	2.6	0.0	0.0	0.0	0.0	0.0
6829.7	75°	4428.0	1306.7	33.2	12.8	5.1	0.0	0.0	0.0	0.0	0.0
2937.6	77.5°	1763.6	459.4	25.5	10.2	5.1	0.0	0.0	0.0	0.0	0.0
923.9	80°	477.3	137.8	15.3	10.2	7.7	2.6	0.0	0.0	0.0	0.0
260.3	82.5°	125.1	51.0	12.8	10.2	5.1	2.6	0.0	0.0	0.0	0.0
86.8	85°	48.5	20.4	10.2	7.7	7.7	5.1	2.6	0.0	0.0	0.0
28.1	87.5°	15.3	7.7	7.7	5.1	5.1	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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