

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: P575130

Luminaire Tested: **EPH-VN-04-735-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575130
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

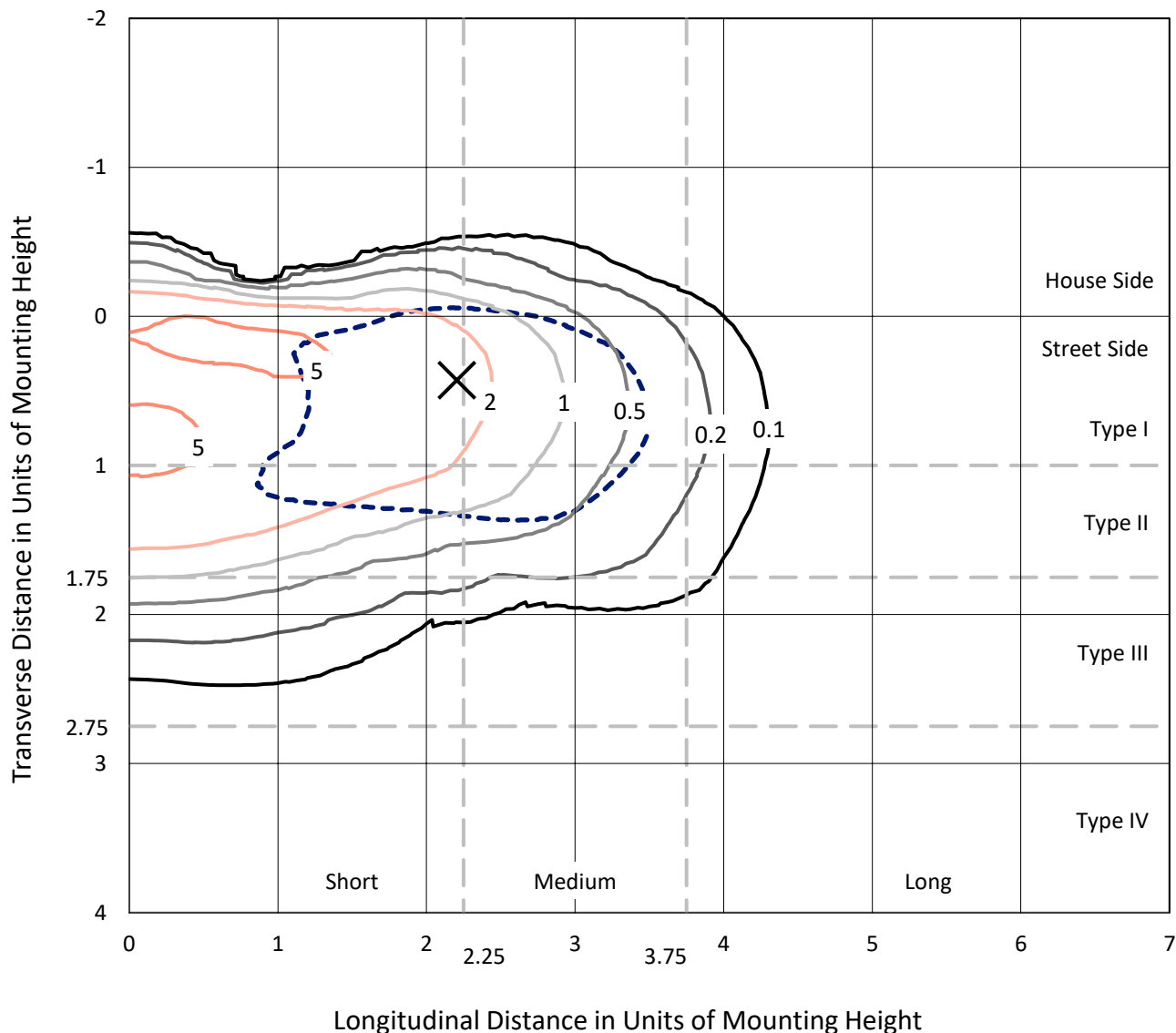
Lumens per Lamp: N/A
Luminaire Lumens: 21465.6 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

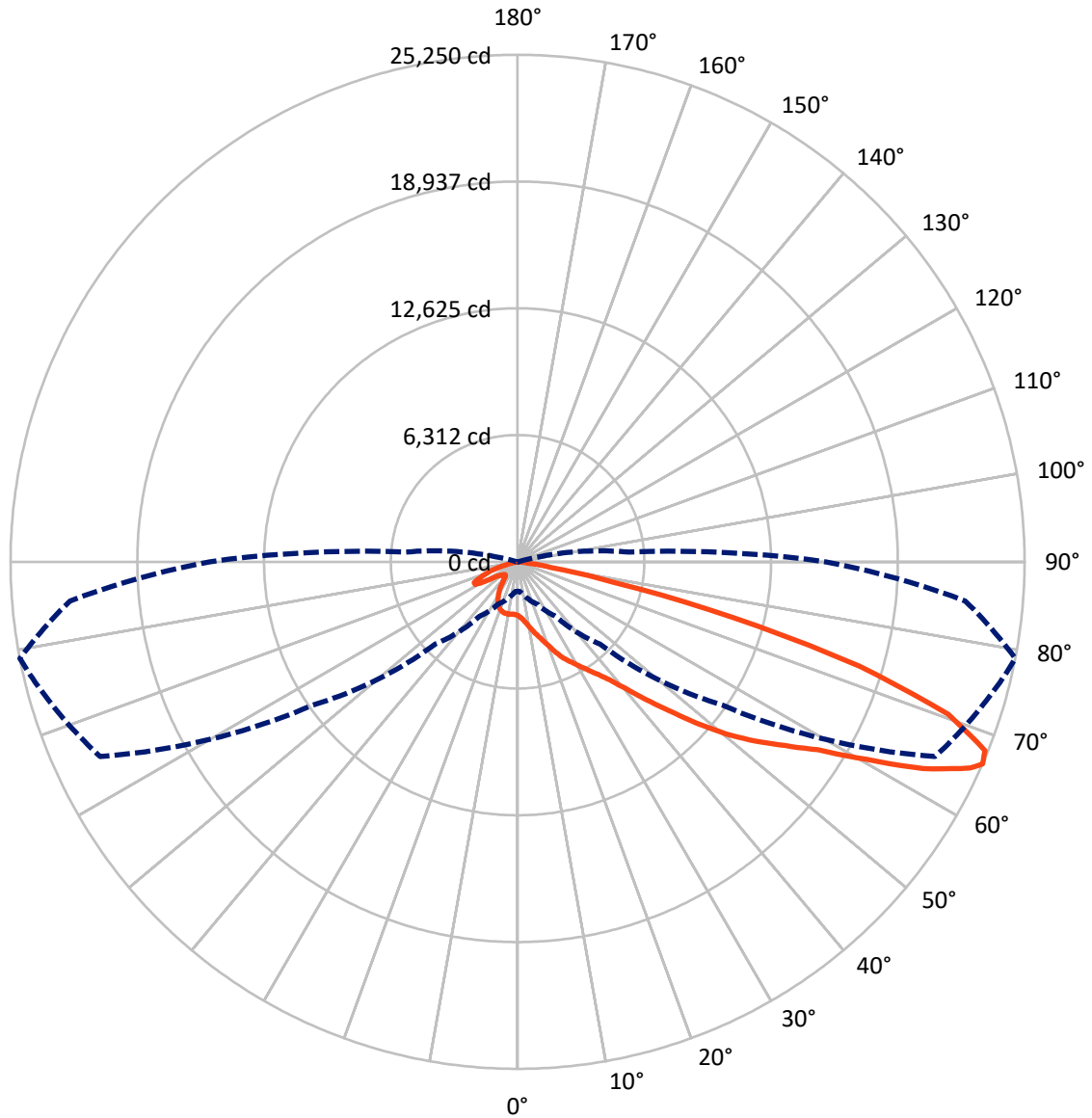
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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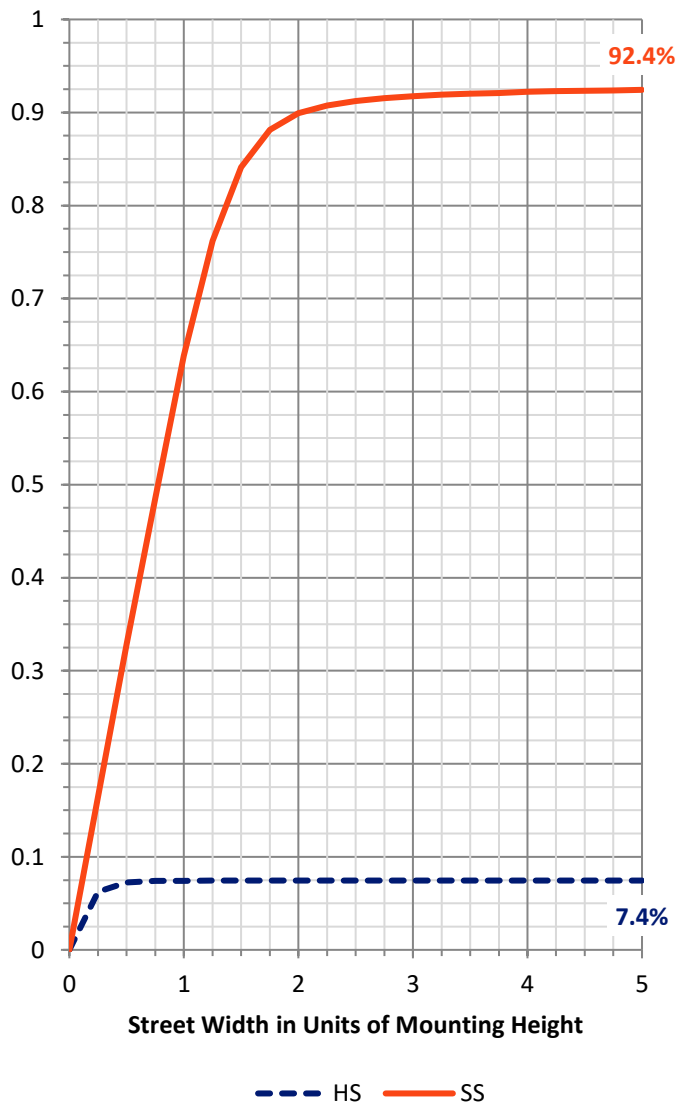
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1611.8	0.0	1611.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19853.8	0.0	19853.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	21465.6	0.0	21465.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	1.2
10°-20°	695.1	3.2
20°-30°	1154.7	5.4
30°-40°	1983.4	9.2
40°-50°	3593.1	16.7
50°-60°	5679.7	26.5
60°-70°	5779.5	26.9
70°-80°	2204.0	10.3
80°-90°	123.6	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°	21465.6	100.0
0°-180°	21465.6	100.0

Coefficient of Utilization



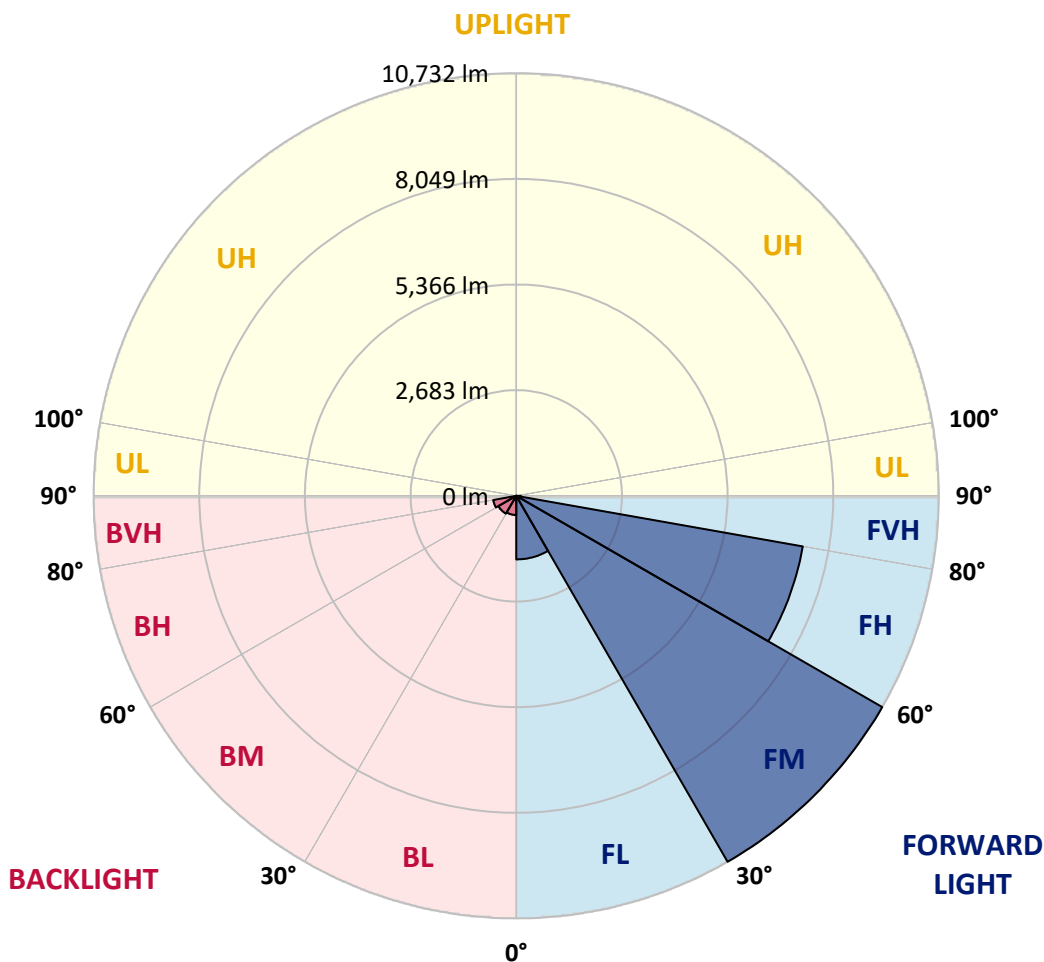
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1614.9	7.5			
FM (30°-60°)	10732.3	50.0			
FH (60°-80°)	7389.3	34.4			G3/7500
FVH (80°-90°)	117.2	0.5			G2/225
BL (0°-30°)	487.4	2.3	B1/500		
BM (30°-60°)	523.8	2.4	B1/1000		
BH (60°-80°)	594.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6
2.5°	3024.7	3021.4	3008.1	2985.0	2955.2	2945.2	2902.2	2842.7	2809.6	2773.2
5°	3233.1	3216.6	3256.3	3239.8	3246.4	3167.0	3114.0	3071.0	2945.2	2895.6
7.5°	3279.5	3296.0	3292.7	3319.2	3345.7	3375.4	3339.0	3276.2	3150.4	3077.6
10°	3279.5	3272.9	3299.3	3335.7	3411.9	3478.0	3577.3	3494.6	3398.6	3312.6
12.5°	3219.9	3210.0	3236.5	3312.6	3448.3	3583.9	3693.1	3772.6	3636.9	3567.4
15°	3037.9	3028.0	3137.2	3272.9	3451.6	3673.3	3901.6	4030.7	3938.0	3828.8
17.5°	2812.9	2826.1	2941.9	3167.0	3451.6	3716.3	4007.5	4288.8	4275.6	4136.6
20°	2736.8	2746.7	2862.5	3024.7	3349.0	3746.1	4173.0	4570.1	4649.5	4484.1
22.5°	2882.4	2872.4	2882.4	2981.6	3279.5	3719.6	4282.2	4891.1	5033.4	4904.3
25°	3378.8	3372.1	3289.4	3137.2	3239.8	3660.0	4338.4	5102.9	5430.5	5311.4
27.5°	4106.8	4080.3	3951.3	3633.6	3425.1	3696.4	4431.1	5308.1	5778.0	5642.3
30°	4887.8	4824.9	4656.1	4259.0	3904.9	3832.1	4484.1	5460.3	6165.2	5993.1
32.5°	5427.2	5509.9	5457.0	5053.2	4510.5	4146.5	4570.1	5652.2	6522.6	6410.0
35°	6261.1	6357.1	6135.4	5778.0	5231.9	4646.2	4752.1	5807.8	7071.9	6883.3
37.5°	7313.5	7386.3	7227.4	6549.0	5973.2	5261.7	5126.0	6132.1	7545.1	7455.8
40°	7843.0	8193.7	7968.7	7356.5	6737.7	6122.1	5744.9	6512.6	8369.1	8296.3
42.5°	8574.3	8749.7	8633.9	8180.5	7535.2	7042.1	6509.3	7253.9	9368.5	9368.5
45°	9348.7	9355.3	9348.7	8978.0	8405.5	8150.7	7541.8	8183.8	10444.0	10563.2
47.5°	9984.0	10182.6	10166.1	9944.3	9500.9	9404.9	8574.3	9242.8	11794.2	12002.7
50°	10311.7	10533.4	10599.6	10715.4	10695.5	10897.4	9702.8	10470.5	12959.1	13472.0
52.5°	10222.3	10238.9	10645.9	11102.6	11830.6	12396.5	11062.9	11863.7	14322.5	14828.8
55°	9491.0	9428.1	10265.3	10788.2	12293.9	13313.2	12945.8	13601.1	15384.8	16155.8
57.5°	7886.0	7902.5	8676.9	9739.2	11949.7	13677.2	14957.9	15871.2	16873.9	17651.6
60°	5443.7	5423.9	6290.9	7518.6	9927.8	12998.8	16116.1	18813.2	18866.1	19968.1
62.5°	3061.1	3067.7	3726.2	4775.3	6946.1	10622.7	16059.9	21937.1	21712.1	22678.4
65°	1734.1	1777.1	2230.4	2829.4	4159.7	7131.5	13812.9	23181.4	23906.1	24766.5
66°	1466.0	1495.8	1883.0	2336.3	3319.2	5784.6	12432.9	22939.8	24594.4	25249.7
67.5°	1135.1	1174.8	1499.1	1853.2	2435.6	4004.2	10007.2	21738.5	24720.2	25104.1
70°	777.7	804.2	1052.3	1406.4	1664.6	2048.4	5983.1	17972.6	22430.2	22754.5
72.5°	546.0	559.3	738.0	1065.6	1280.7	1171.5	2968.4	12787.0	17165.1	17797.2
75°	393.8	407.0	506.3	764.4	999.4	767.7	1360.1	8167.3	10526.8	11023.2
77.5°	284.6	301.1	344.2	493.1	724.7	539.4	668.5	4265.6	4963.9	4877.9
80°	172.1	188.6	254.8	317.7	529.5	380.6	367.3	1780.4	1760.5	1671.2
82.5°	79.4	92.7	135.7	215.1	370.6	264.7	175.4	635.4	556.0	509.6
85°	23.2	29.8	79.4	162.2	188.6	129.1	105.9	218.4	228.3	195.2
87.5°	0.0	3.3	36.4	39.7	56.3	43.0	39.7	56.3	105.9	86.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2670.6	0°	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6	2670.6
2756.6	2.5°	2697.0	2673.9	2617.6	2531.6	2455.5	2415.8	2359.5	2309.9	2283.4	2280.1
2816.2	5°	2763.2	2700.4	2564.7	2409.1	2293.3	2167.6	2081.5	2018.7	1959.1	1902.8
2991.6	7.5°	2852.6	2753.3	2531.6	2329.7	2078.2	1916.1	1763.8	1674.5	1621.5	1571.9
3157.0	10°	2991.6	2865.8	2508.4	2144.4	1856.5	1618.2	1462.7	1333.6	1260.8	1174.8
3365.5	12.5°	3180.2	2955.2	2422.4	1975.6	1605.0	1353.5	1131.8	923.3	807.5	718.1
3603.8	15°	3368.8	3074.3	2343.0	1770.5	1376.7	1045.7	721.4	579.1	546.0	526.2
3901.6	17.5°	3554.1	3170.3	2220.5	1562.0	1115.2	665.2	526.2	496.4	479.8	460.0
4176.3	20°	3779.2	3233.1	2068.3	1370.0	767.7	493.1	450.1	430.2	403.7	377.3
4537.0	22.5°	3997.6	3286.1	1892.9	1125.1	516.2	426.9	377.3	350.8	327.6	301.1
4828.2	25°	4216.0	3302.6	1664.6	807.5	417.0	340.9	294.5	258.1	235.0	211.8
5089.6	27.5°	4364.9	3200.1	1449.5	516.2	334.2	258.1	205.2	175.4	155.5	132.4
5318.0	30°	4451.0	3011.4	1217.8	364.0	251.5	175.4	122.4	92.7	72.8	56.3
5708.5	32.5°	4537.0	2859.2	956.4	278.0	165.5	92.7	46.3	16.5	0.0	0.0
6072.5	35°	4709.1	2687.1	642.0	155.5	56.3	3.3	0.0	0.0	0.0	0.0
6539.1	37.5°	4818.3	2448.9	294.5	23.2	0.0	0.0	0.0	0.0	0.0	0.0
7184.4	40°	5093.0	2329.7	72.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8058.1	42.5°	5539.7	2247.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9103.8	45°	6029.5	2213.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10123.0	47.5°	6681.4	2303.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11433.5	50°	7369.7	2544.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12446.1	52.5°	8124.2	2773.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13491.9	55°	8782.8	3047.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14961.2	57.5°	9994.0	3696.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17598.7	60°	12168.2	4970.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20596.9	62.5°	14617.0	5917.0	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22416.9	65°	15513.8	5893.8	62.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
22380.5	66°	15355.0	5569.5	62.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
21748.5	67.5°	14531.0	4947.3	56.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0
18902.5	70°	12479.2	4086.9	56.3	9.9	0.0	0.0	0.0	0.0	0.0	0.0
14703.1	72.5°	9514.1	3183.5	52.9	13.2	3.3	0.0	0.0	0.0	0.0	0.0
8855.6	75°	5741.6	1694.3	43.0	16.5	6.6	0.0	0.0	0.0	0.0	0.0
3809.0	77.5°	2286.7	595.7	33.1	13.2	6.6	0.0	0.0	0.0	0.0	0.0
1198.0	80°	618.8	178.7	19.9	13.2	9.9	3.3	0.0	0.0	0.0	0.0
337.5	82.5°	162.2	66.2	16.5	13.2	6.6	3.3	0.0	0.0	0.0	0.0
112.5	85°	62.9	26.5	13.2	9.9	9.9	6.6	3.3	0.0	0.0	0.0
36.4	87.5°	19.9	9.9	9.9	6.6	6.6	3.3	3.3	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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