

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: P575142

Luminaire Tested: **EPH-VN-04-750-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575142
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

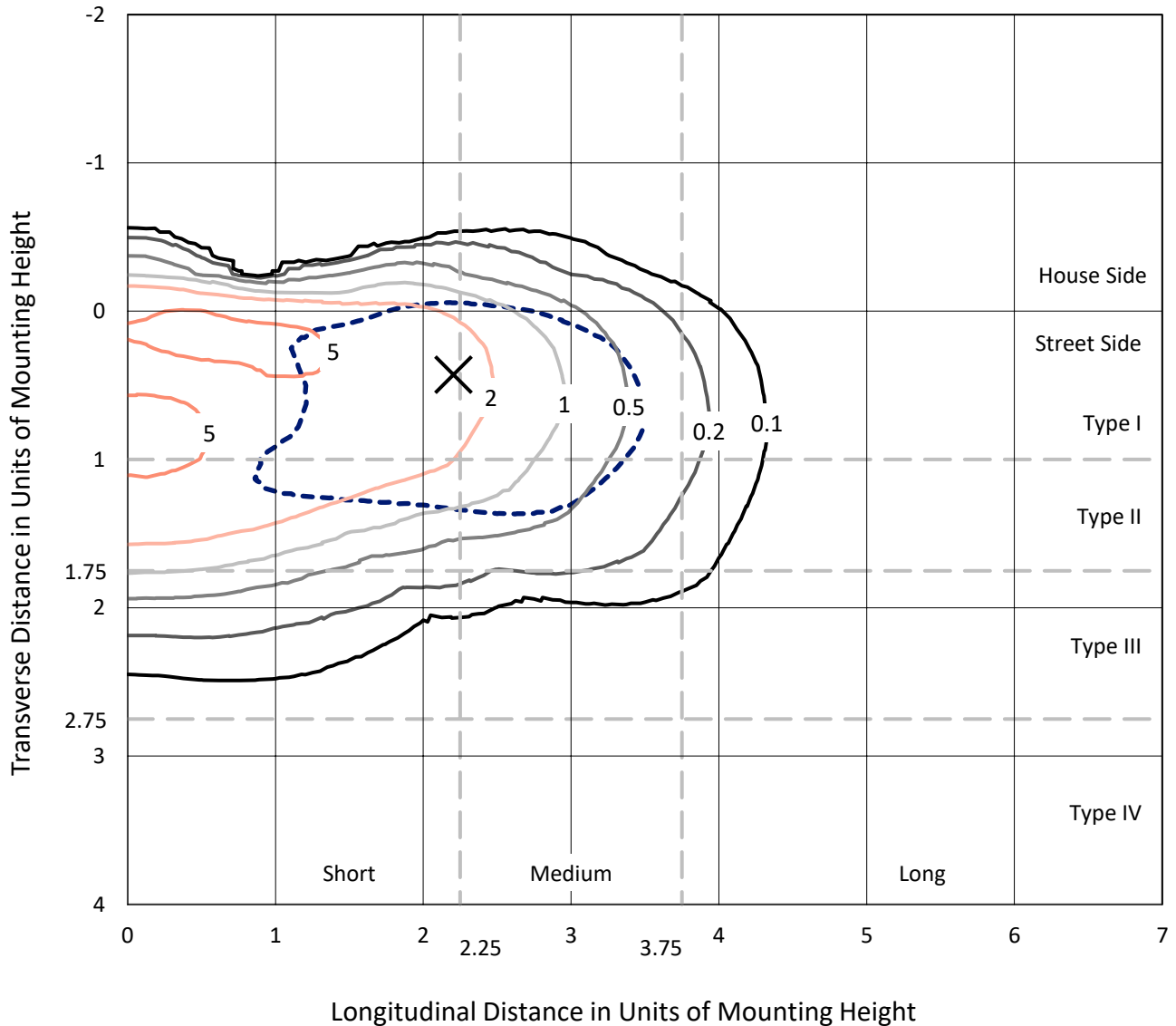
Lumens per Lamp: N/A
Luminaire Lumens: 22262.1 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

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

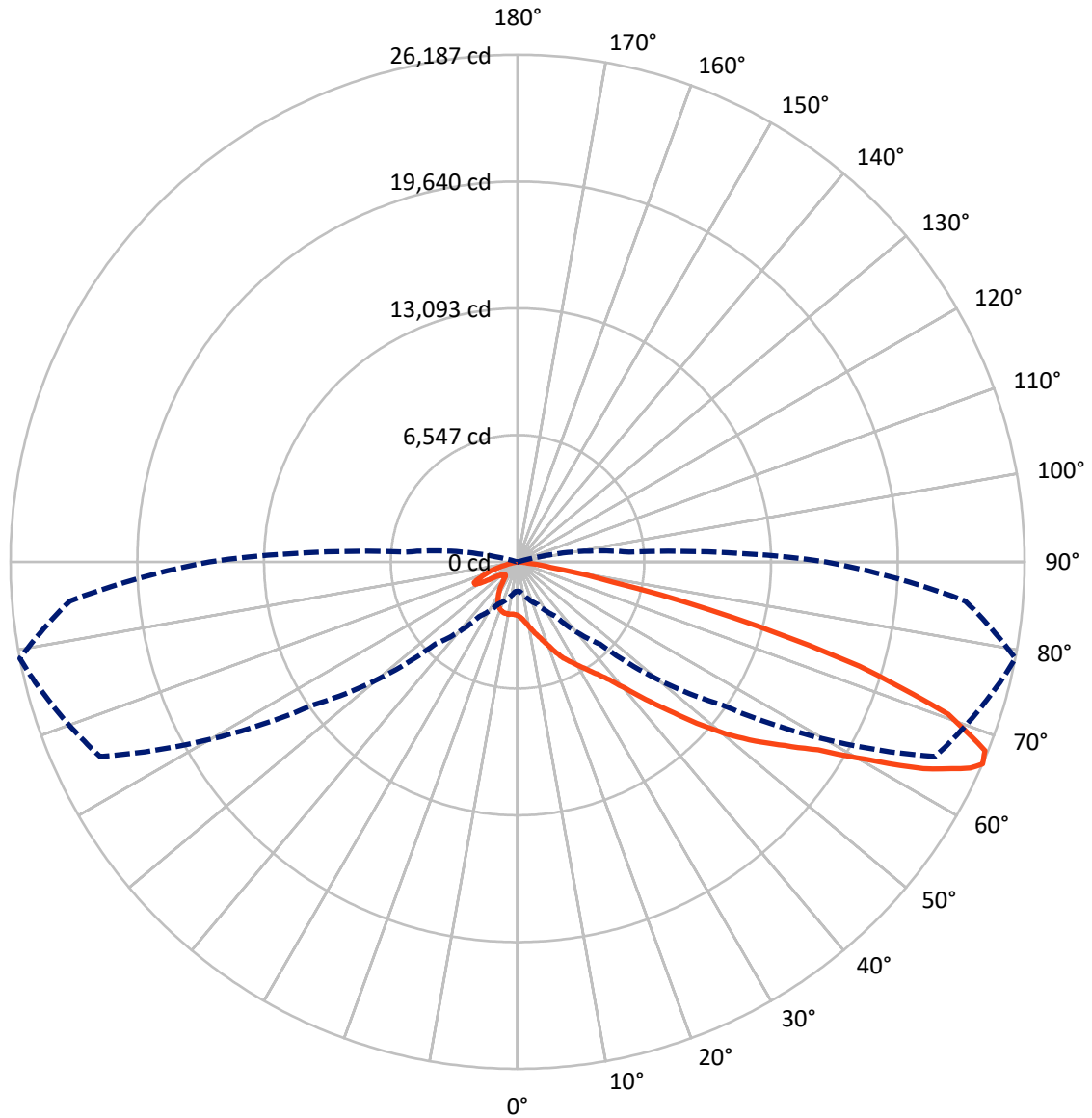
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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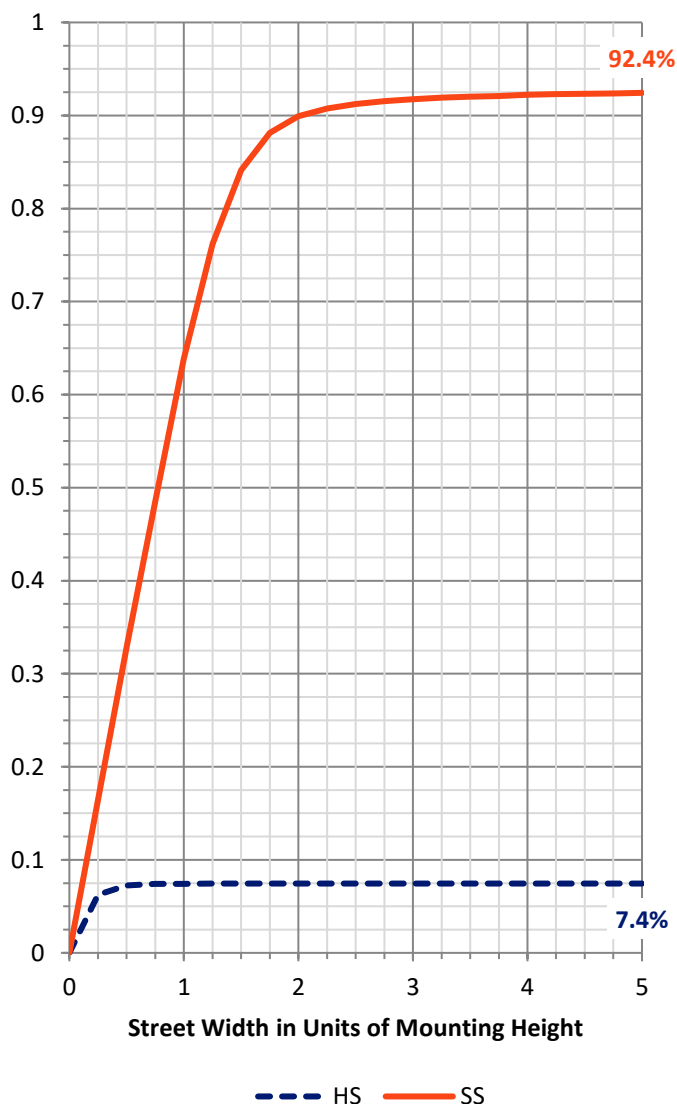
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1671.6	0.0	1671.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20590.6	0.0	20590.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	22262.1	0.0	22262.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	1.2
10°-20°	720.9	3.2
20°-30°	1197.6	5.4
30°-40°	2057.0	9.2
40°-50°	3726.5	16.7
50°-60°	5890.4	26.5
60°-70°	5994.0	26.9
70°-80°	2285.8	10.3
80°-90°	128.2	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°	22262.1	100.0
0°-180°	22262.1	100.0

Coefficient of Utilization

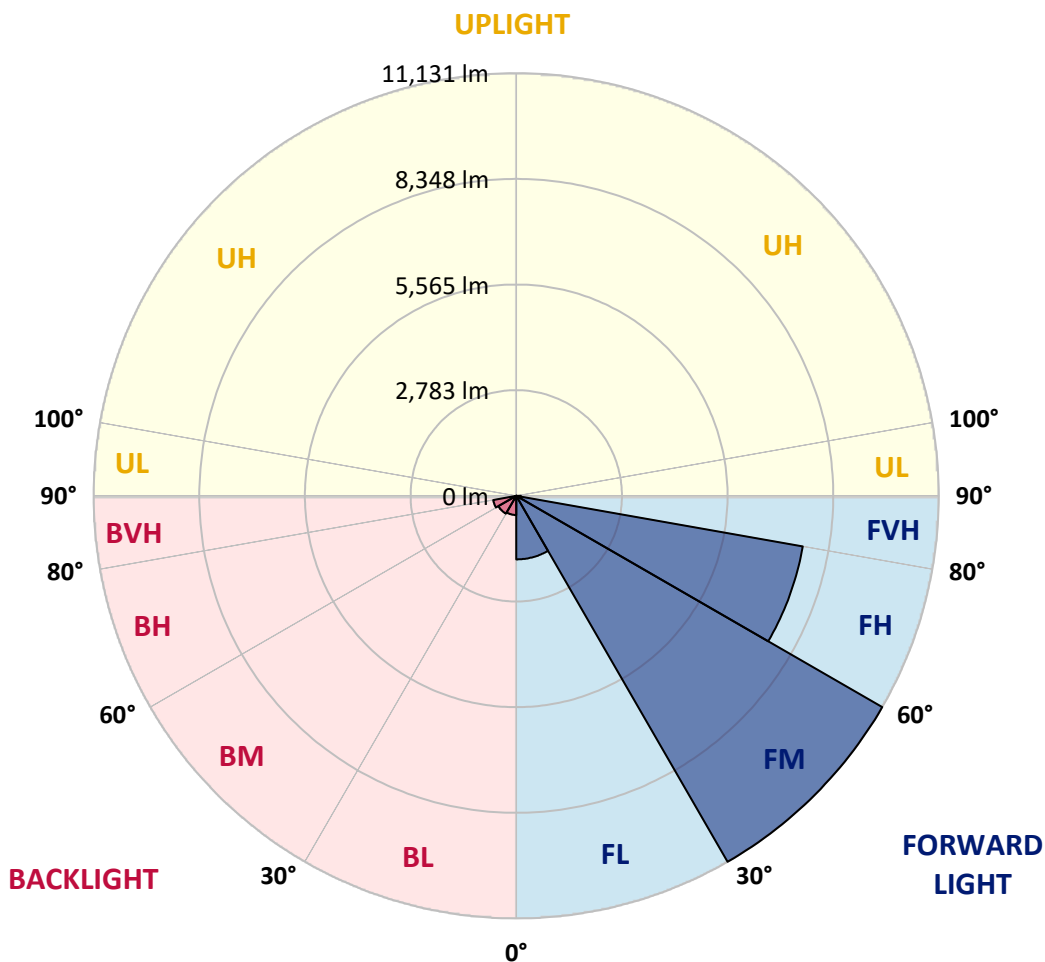


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1674.8	7.5			
FM (30°-60°)	11130.6	50.0			
FH (60°-80°)	7663.5	34.4			G4/12000
FVH (80°-90°)	121.6	0.5			G2/225
BL (0°-30°)	505.5	2.3	B2/1000		
BM (30°-60°)	543.3	2.4	B1/1000		
BH (60°-80°)	616.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.6	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7
2.5°	3136.9	3133.5	3119.7	3095.7	3064.8	3054.5	3009.9	2948.1	2913.8	2876.1
5°	3353.1	3336.0	3377.2	3360.0	3366.9	3284.5	3229.6	3185.0	3054.5	3003.1
7.5°	3401.2	3418.3	3414.9	3442.4	3469.8	3500.7	3463.0	3397.7	3267.3	3191.8
10°	3401.2	3394.3	3421.8	3459.5	3538.5	3607.1	3710.1	3624.3	3524.7	3435.5
12.5°	3339.4	3329.1	3356.6	3435.5	3576.2	3716.9	3830.2	3912.6	3771.8	3699.8
15°	3150.6	3140.3	3253.6	3394.3	3579.6	3809.6	4046.4	4180.3	4084.2	3970.9
17.5°	2917.3	2931.0	3051.1	3284.5	3579.6	3854.2	4156.2	4448.0	4434.2	4290.1
20°	2838.3	2848.6	2968.7	3136.9	3473.2	3885.1	4327.8	4739.7	4822.1	4650.4
22.5°	2989.3	2979.0	2989.3	3092.3	3401.2	3857.6	4441.1	5072.6	5220.2	5086.3
25°	3504.1	3497.3	3411.5	3253.6	3360.0	3795.9	4499.4	5292.2	5632.0	5508.5
27.5°	4259.2	4231.7	4097.9	3768.4	3552.2	3833.6	4595.5	5505.0	5992.4	5851.7
30°	5069.2	5003.9	4828.9	4417.1	4049.8	3974.3	4650.4	5662.9	6393.9	6215.5
32.5°	5628.6	5714.4	5659.5	5240.8	4677.9	4300.4	4739.7	5862.0	6764.6	6647.9
35°	6493.5	6593.0	6363.0	5992.4	5426.1	4818.6	4928.4	6023.3	7334.3	7138.7
37.5°	7584.9	7660.4	7495.6	6792.1	6194.9	5457.0	5316.3	6359.6	7825.1	7732.4
40°	8134.0	8497.8	8264.4	7629.5	6987.7	6349.3	5958.1	6754.3	8679.7	8604.2
42.5°	8892.5	9074.4	8954.3	8484.1	7814.8	7303.4	6750.9	7523.1	9716.2	9716.2
45°	9695.6	9702.4	9695.6	9311.2	8717.4	8453.2	7821.7	8487.5	10831.6	10955.1
47.5°	10354.5	10560.5	10543.3	10313.4	9853.5	9753.9	8892.5	9585.8	12231.9	12448.1
50°	10694.3	10924.3	10992.9	11113.0	11092.4	11301.8	10062.8	10859.1	13440.0	13971.9
52.5°	10601.6	10618.8	11041.0	11514.6	12269.6	12856.5	11473.4	12304.0	14854.0	15379.1
55°	9843.2	9778.0	10646.3	11188.5	12750.1	13807.2	13426.2	14105.8	15955.7	16755.3
57.5°	8178.6	8195.8	8998.9	10100.6	12393.2	14184.7	15512.9	16460.2	17500.1	18306.6
60°	5645.7	5625.2	6524.4	7797.7	10296.2	13481.1	16714.2	19511.3	19566.2	20709.1
62.5°	3174.7	3181.5	3864.5	4952.5	7203.9	11016.9	16655.8	22751.2	22517.8	23519.9
65°	1798.4	1843.0	2313.2	2934.4	4314.1	7396.1	14325.4	24041.6	24793.2	25685.6
66°	1520.4	1551.3	1952.8	2423.0	3442.4	5999.2	12894.3	23791.1	25507.1	26186.7
67.5°	1177.2	1218.4	1554.7	1922.0	2526.0	4152.8	10378.6	22545.2	25637.5	26035.6
70°	806.5	834.0	1091.4	1458.6	1726.3	2124.4	6205.2	18639.5	23262.5	23598.9
72.5°	566.3	580.0	765.4	1105.1	1328.2	1215.0	3078.6	13261.5	17802.1	18457.6
75°	408.4	422.1	525.1	792.8	1036.5	796.2	1410.6	8470.3	10917.4	11432.2
77.5°	295.2	312.3	356.9	511.4	751.6	559.4	693.3	4423.9	5148.1	5058.9
80°	178.5	195.6	264.3	329.5	549.1	394.7	381.0	1846.5	1825.9	1733.2
82.5°	82.4	96.1	140.7	223.1	384.4	274.6	181.9	659.0	576.6	528.5
85°	24.0	30.9	82.4	168.2	195.6	133.9	109.8	226.5	236.8	202.5
87.5°	0.0	3.4	37.8	41.2	58.3	44.6	41.2	58.3	109.8	89.2
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°
2769.7	0°	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7	2769.7
2858.9	2.5°	2797.1	2773.1	2714.8	2625.5	2546.6	2505.4	2447.1	2395.6	2368.1	2364.7
2920.7	5°	2865.8	2800.6	2659.8	2498.5	2378.4	2248.0	2158.8	2093.6	2031.8	1973.4
3102.6	7.5°	2958.4	2855.5	2625.5	2416.2	2155.3	1987.2	1829.3	1736.6	1681.7	1630.2
3274.2	10°	3102.6	2972.2	2601.5	2224.0	1925.4	1678.3	1517.0	1383.1	1307.6	1218.4
3490.4	12.5°	3298.2	3064.8	2512.3	2048.9	1664.6	1403.7	1173.8	957.5	837.4	744.8
3737.5	15°	3493.8	3188.4	2429.9	1836.2	1427.7	1084.5	748.2	600.6	566.3	545.7
4046.4	17.5°	3686.0	3287.9	2302.9	1619.9	1156.6	689.8	545.7	514.8	497.6	477.1
4331.3	20°	3919.4	3353.1	2145.0	1420.9	796.2	511.4	466.8	446.2	418.7	391.3
4705.4	22.5°	4145.9	3408.0	1963.1	1166.9	535.4	442.7	391.3	363.8	339.8	312.3
5007.4	25°	4372.4	3425.2	1726.3	837.4	432.4	353.5	305.5	267.7	243.7	219.7
5278.5	27.5°	4526.9	3318.8	1503.2	535.4	346.6	267.7	212.8	181.9	161.3	137.3
5515.3	30°	4616.1	3123.2	1263.0	377.5	260.8	181.9	127.0	96.1	75.5	58.3
5920.3	32.5°	4705.4	2965.3	991.9	288.3	171.6	96.1	48.0	17.2	0.0	0.0
6297.8	35°	4883.8	2786.8	665.8	161.3	58.3	3.4	0.0	0.0	0.0	0.0
6781.8	37.5°	4997.1	2539.7	305.5	24.0	0.0	0.0	0.0	0.0	0.0	0.0
7451.0	40°	5281.9	2416.2	75.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8357.1	42.5°	5745.3	2330.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9441.6	45°	6253.2	2296.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10498.7	47.5°	6929.3	2388.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11857.8	50°	7643.2	2639.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12908.0	52.5°	8425.7	2876.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13992.5	55°	9108.7	3160.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15516.4	57.5°	10364.8	3833.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18251.7	60°	12619.7	5155.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21361.2	62.5°	15159.4	6136.5	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23248.8	65°	16089.5	6112.5	65.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
23211.1	66°	15924.8	5776.2	65.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
22555.5	67.5°	15070.2	5130.9	58.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0
19604.0	70°	12942.3	4238.6	58.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0
15248.7	72.5°	9867.2	3301.6	54.9	13.7	3.4	0.0	0.0	0.0	0.0	0.0
9184.2	75°	5954.6	1757.2	44.6	17.2	6.9	0.0	0.0	0.0	0.0	0.0
3950.3	77.5°	2371.6	617.8	34.3	13.7	6.9	0.0	0.0	0.0	0.0	0.0
1242.4	80°	641.8	185.3	20.6	13.7	10.3	3.4	0.0	0.0	0.0	0.0
350.1	82.5°	168.2	68.6	17.2	13.7	6.9	3.4	0.0	0.0	0.0	0.0
116.7	85°	65.2	27.5	13.7	10.3	10.3	6.9	3.4	0.0	0.0	0.0
37.8	87.5°	20.6	10.3	10.3	6.9	6.9	3.4	3.4	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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