

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: P575124

Luminaire Tested: **EPH-VN-04-730-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575124
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-730-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

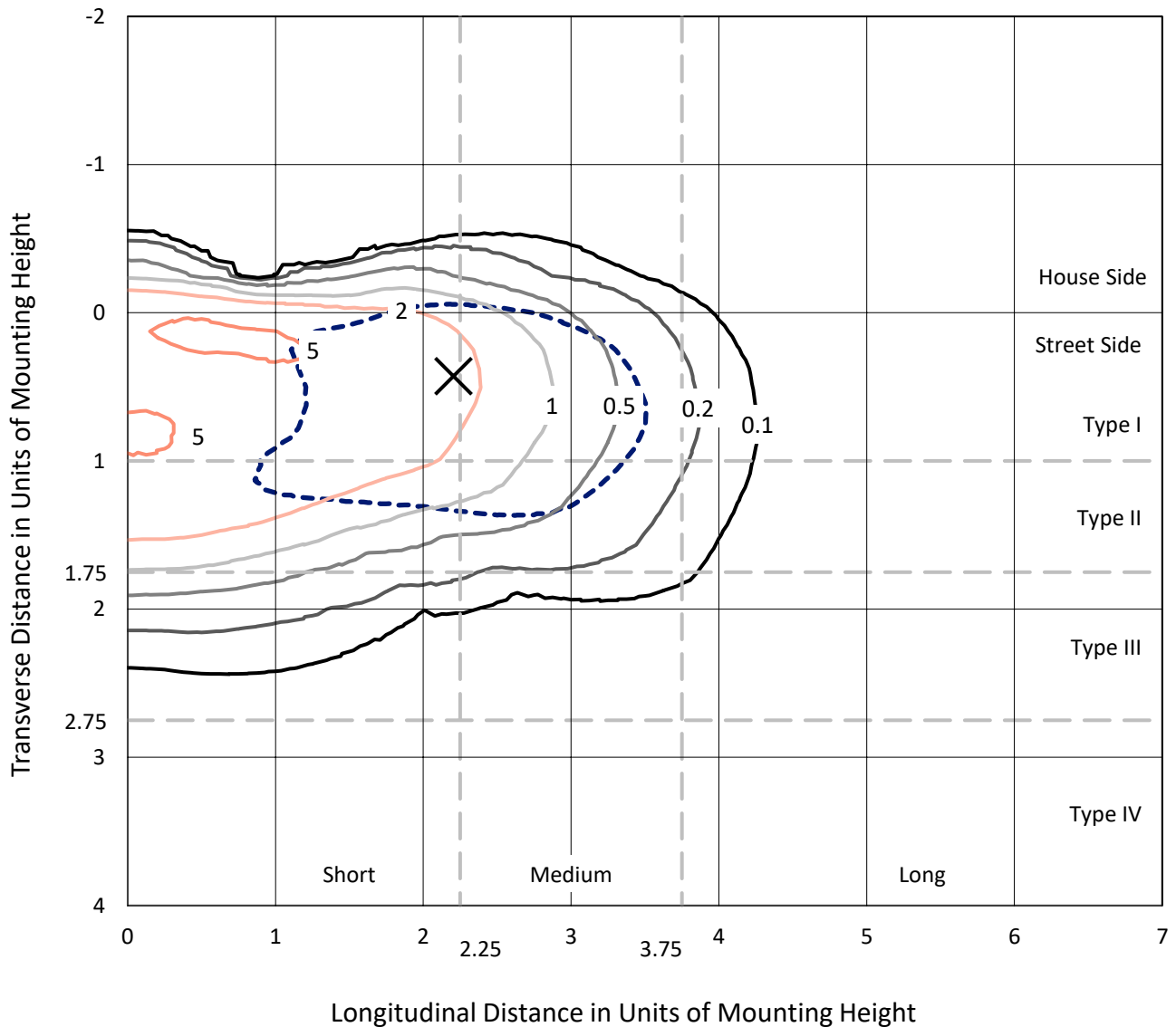
Lumens per Lamp: N/A
Luminaire Lumens: 19818.1 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

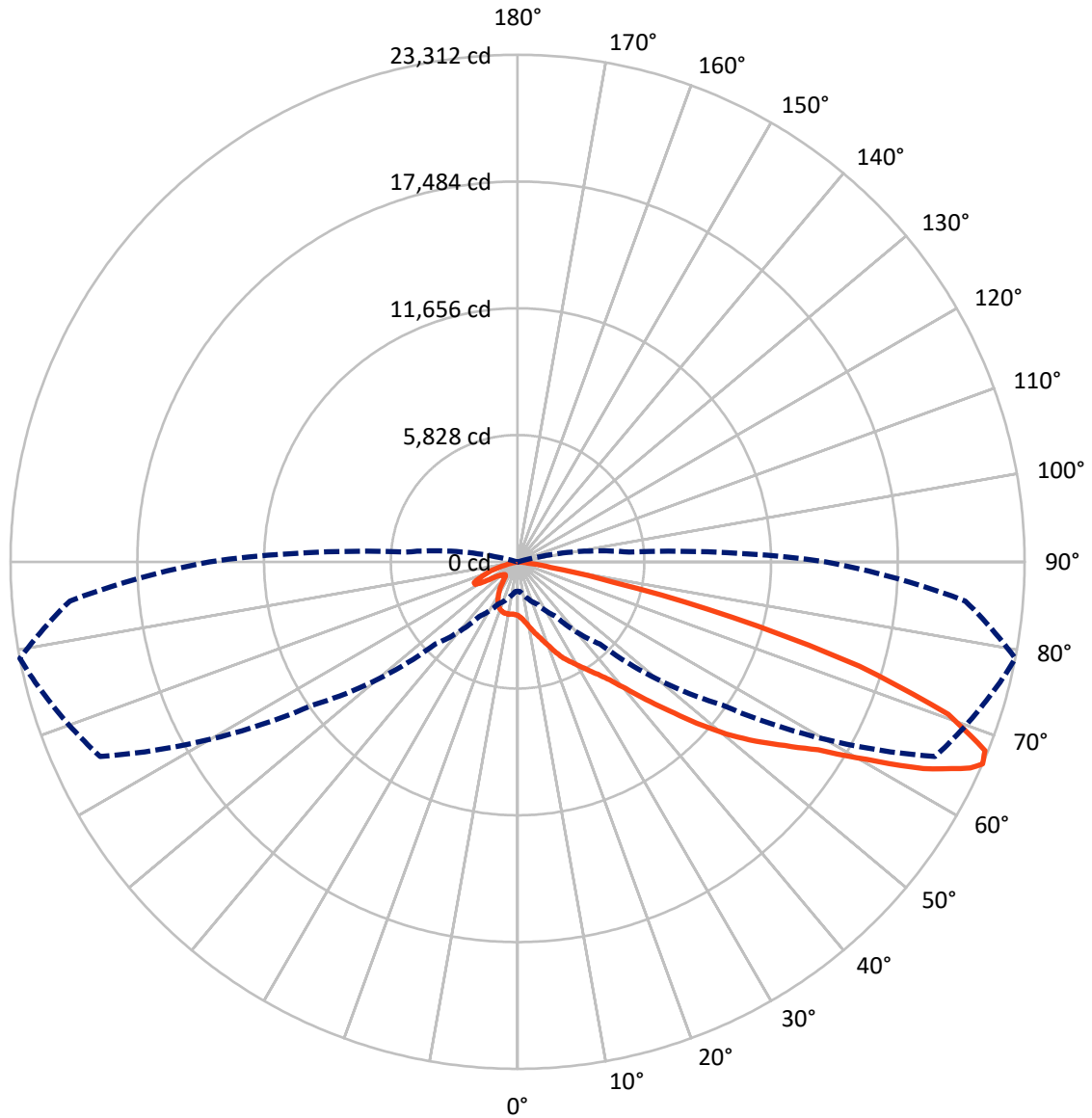
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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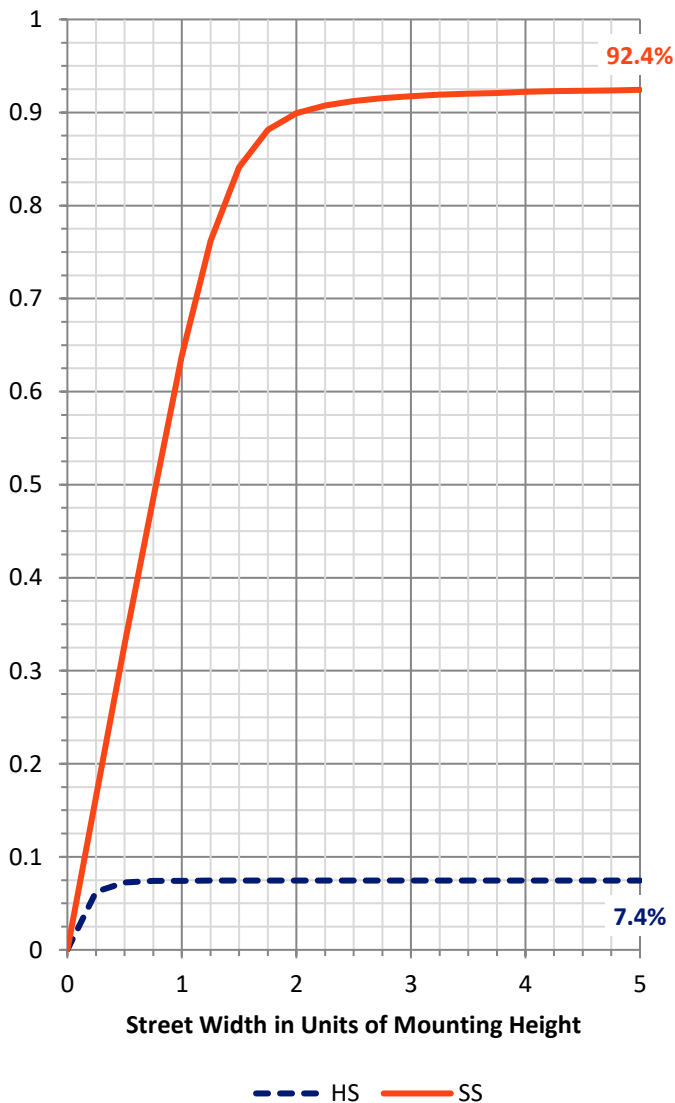
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1488.1	0.0	1488.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18330.0	0.0	18330.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	19818.1	0.0	19818.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	1.2
10°-20°	641.7	3.2
20°-30°	1066.1	5.4
30°-40°	1831.1	9.2
40°-50°	3317.3	16.7
50°-60°	5243.7	26.5
60°-70°	5335.9	26.9
70°-80°	2034.8	10.3
80°-90°	114.1	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°	19818.1	100.0
0°-180°	19818.1	100.0

Coefficient of Utilization



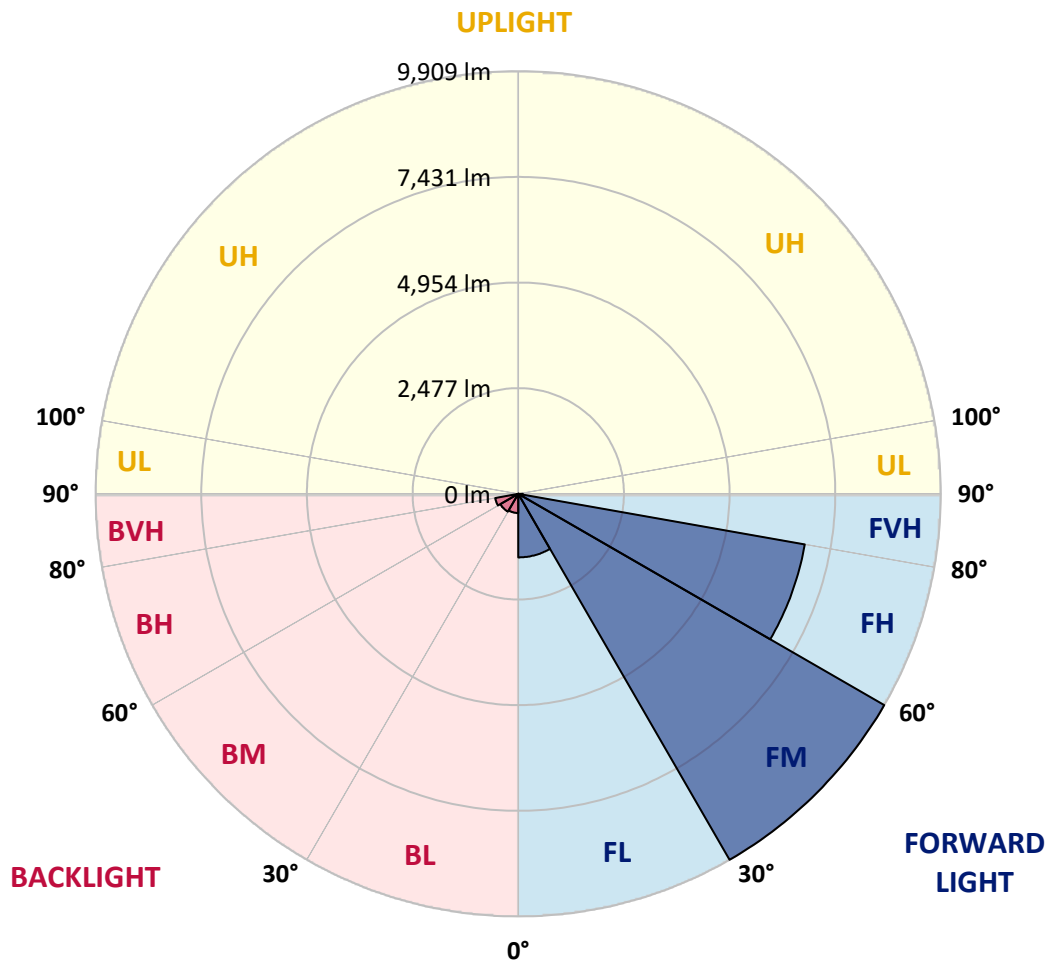
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.0	7.5			
FM (30°-60°)	9908.6	50.0			
FH (60°-80°)	6822.2	34.4			G3/7500
FVH (80°-90°)	108.2	0.5			G2/225
BL (0°-30°)	450.0	2.3	B1/500		
BM (30°-60°)	483.6	2.4	B1/1000		
BH (60°-80°)	548.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.8	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°	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6
2.5°	2792.5	2789.5	2777.2	2755.9	2728.4	2719.2	2679.5	2624.5	2593.9	2560.3
5°	2985.0	2969.7	3006.4	2991.1	2997.2	2923.9	2875.0	2835.3	2719.2	2673.4
7.5°	3027.8	3043.1	3040.0	3064.4	3088.9	3116.4	3082.8	3024.7	2908.6	2841.4
10°	3027.8	3021.7	3046.1	3079.7	3150.0	3211.1	3302.7	3226.4	3137.8	3058.3
12.5°	2972.8	2963.6	2988.1	3058.3	3183.6	3308.9	3409.7	3483.0	3357.7	3293.6
15°	2804.7	2795.6	2896.4	3021.7	3186.6	3391.4	3602.2	3721.3	3635.8	3534.9
17.5°	2597.0	2609.2	2716.1	2923.9	3186.6	3431.1	3699.9	3959.6	3947.4	3819.1
20°	2526.7	2535.9	2642.8	2792.5	3091.9	3458.6	3852.7	4219.3	4292.7	4139.9
22.5°	2661.1	2652.0	2661.1	2752.8	3027.8	3434.1	3953.5	4515.7	4647.1	4527.9
25°	3119.4	3113.3	3036.9	2896.4	2991.1	3379.1	4005.5	4711.2	5013.7	4903.7
27.5°	3791.6	3767.2	3648.0	3354.7	3162.2	3412.7	4091.0	4900.7	5334.5	5209.2
30°	4512.6	4454.6	4298.8	3932.1	3605.2	3538.0	4139.9	5041.2	5692.0	5533.1
32.5°	5010.6	5087.0	5038.1	4665.4	4164.3	3828.3	4219.3	5218.4	6021.9	5918.1
35°	5780.6	5869.2	5664.5	5334.5	4830.4	4289.6	4387.4	5362.0	6529.1	6355.0
37.5°	6752.2	6819.4	6672.7	6046.4	5514.8	4857.9	4732.6	5661.4	6966.0	6883.5
40°	7241.0	7564.9	7357.1	6791.9	6220.5	5652.3	5304.0	6012.8	7726.8	7659.6
42.5°	7916.2	8078.1	7971.2	7552.6	6956.9	6501.6	6009.7	6697.2	8649.5	8649.5
45°	8631.1	8637.3	8631.1	8289.0	7760.4	7525.1	6963.0	7555.7	9642.4	9752.4
47.5°	9217.8	9401.1	9385.8	9181.1	8771.7	8683.1	7916.2	8533.4	10889.0	11081.5
50°	9520.2	9724.9	9786.0	9893.0	9874.6	10061.0	8958.1	9666.9	11964.4	12438.0
52.5°	9437.7	9453.0	9828.8	10250.4	10922.6	11445.0	10213.8	10953.2	13223.2	13690.7
55°	8762.5	8704.5	9477.5	9960.2	11350.3	12291.4	11952.2	12557.2	14204.0	14915.8
57.5°	7280.7	7296.0	8010.9	8991.7	11032.6	12627.4	13809.8	14653.1	15578.8	16296.8
60°	5025.9	5007.6	5808.1	6941.6	9165.8	12001.1	14879.2	17369.2	17418.1	18435.5
62.5°	2826.1	2832.2	3440.2	4408.8	6413.0	9807.4	14827.2	20253.4	20045.6	20937.8
65°	1601.0	1640.7	2059.3	2612.3	3840.5	6584.1	12752.7	21402.2	22071.3	22865.7
66°	1353.5	1381.0	1738.4	2157.0	3064.4	5340.6	11478.7	21179.1	22706.8	23311.7
67.5°	1048.0	1084.6	1384.0	1711.0	2248.7	3696.9	9239.1	20070.1	22822.9	23177.3
70°	718.0	742.4	971.6	1298.5	1536.8	1891.2	5523.9	16593.2	20708.6	21008.1
72.5°	504.1	516.3	681.3	983.8	1182.4	1081.6	2740.6	11805.6	15847.7	16431.3
75°	363.6	375.8	467.5	705.8	922.7	708.8	1255.7	7540.4	9718.8	10177.1
77.5°	262.8	278.0	317.7	455.2	669.1	498.0	617.2	3938.2	4582.9	4503.5
80°	158.9	174.2	235.3	293.3	488.8	351.4	339.1	1643.7	1625.4	1542.9
82.5°	73.3	85.5	125.3	198.6	342.2	244.4	161.9	586.6	513.3	470.5
85°	21.4	27.5	73.3	149.7	174.2	119.2	97.8	201.6	210.8	180.3
87.5°	0.0	3.1	33.6	36.7	51.9	39.7	36.7	51.9	97.8	79.4
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°
2465.6	0°	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6	2465.6
2545.0	2.5°	2490.0	2468.7	2416.7	2337.3	2267.0	2230.3	2178.4	2132.6	2108.1	2105.1
2600.0	5°	2551.2	2493.1	2367.8	2224.2	2117.3	2001.2	1921.8	1863.7	1808.7	1756.8
2762.0	7.5°	2633.6	2542.0	2337.3	2150.9	1918.7	1769.0	1628.5	1546.0	1497.1	1451.3
2914.7	10°	2762.0	2645.9	2315.9	1979.8	1714.0	1494.0	1350.4	1231.3	1164.1	1084.6
3107.2	12.5°	2936.1	2728.4	2236.5	1824.0	1481.8	1249.6	1044.9	852.4	745.5	663.0
3327.2	15°	3110.3	2838.3	2163.1	1634.6	1271.0	965.5	666.0	534.7	504.1	485.8
3602.2	17.5°	3281.4	2927.0	2050.1	1442.1	1029.6	614.1	485.8	458.3	443.0	424.7
3855.8	20°	3489.1	2985.0	1909.5	1264.9	708.8	455.2	415.5	397.2	372.7	348.3
4188.8	22.5°	3690.8	3033.9	1747.6	1038.8	476.6	394.1	348.3	323.9	302.5	278.0
4457.6	25°	3892.4	3049.2	1536.8	745.5	385.0	314.7	271.9	238.3	216.9	195.5
4699.0	27.5°	4029.9	2954.4	1338.2	476.6	308.6	238.3	189.4	161.9	143.6	122.2
4909.8	30°	4109.3	2780.3	1124.3	336.1	232.2	161.9	113.0	85.5	67.2	51.9
5270.3	32.5°	4188.8	2639.8	883.0	256.6	152.8	85.5	42.8	15.3	0.0	0.0
5606.4	35°	4347.7	2480.9	592.7	143.6	51.9	3.1	0.0	0.0	0.0	0.0
6037.2	37.5°	4448.5	2260.9	271.9	21.4	0.0	0.0	0.0	0.0	0.0	0.0
6633.0	40°	4702.1	2150.9	67.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7439.6	42.5°	5114.5	2074.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8405.1	45°	5566.7	2044.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9346.1	47.5°	6168.6	2126.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10556.0	50°	6804.1	2349.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11490.9	52.5°	7500.7	2560.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12456.3	55°	8108.7	2813.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13812.9	57.5°	9226.9	3412.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16247.9	60°	11234.2	4589.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19016.0	62.5°	13495.1	5462.8	33.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20696.4	65°	14323.1	5441.4	58.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
20662.8	66°	14176.5	5142.0	58.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
20079.2	67.5°	13415.7	4567.6	51.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0
17451.7	70°	11521.4	3773.3	51.9	9.2	0.0	0.0	0.0	0.0	0.0	0.0
13574.6	72.5°	8783.9	2939.2	48.9	12.2	3.1	0.0	0.0	0.0	0.0	0.0
8175.9	75°	5300.9	1564.3	39.7	15.3	6.1	0.0	0.0	0.0	0.0	0.0
3516.6	77.5°	2111.2	549.9	30.6	12.2	6.1	0.0	0.0	0.0	0.0	0.0
1106.0	80°	571.3	165.0	18.3	12.2	9.2	3.1	0.0	0.0	0.0	0.0
311.6	82.5°	149.7	61.1	15.3	12.2	6.1	3.1	0.0	0.0	0.0	0.0
103.9	85°	58.1	24.4	12.2	9.2	9.2	6.1	3.1	0.0	0.0	0.0
33.6	87.5°	18.3	9.2	9.2	6.1	6.1	3.1	3.1	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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