

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: P575204

Luminaire Tested: **EPH-VN-04-730-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575204
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-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

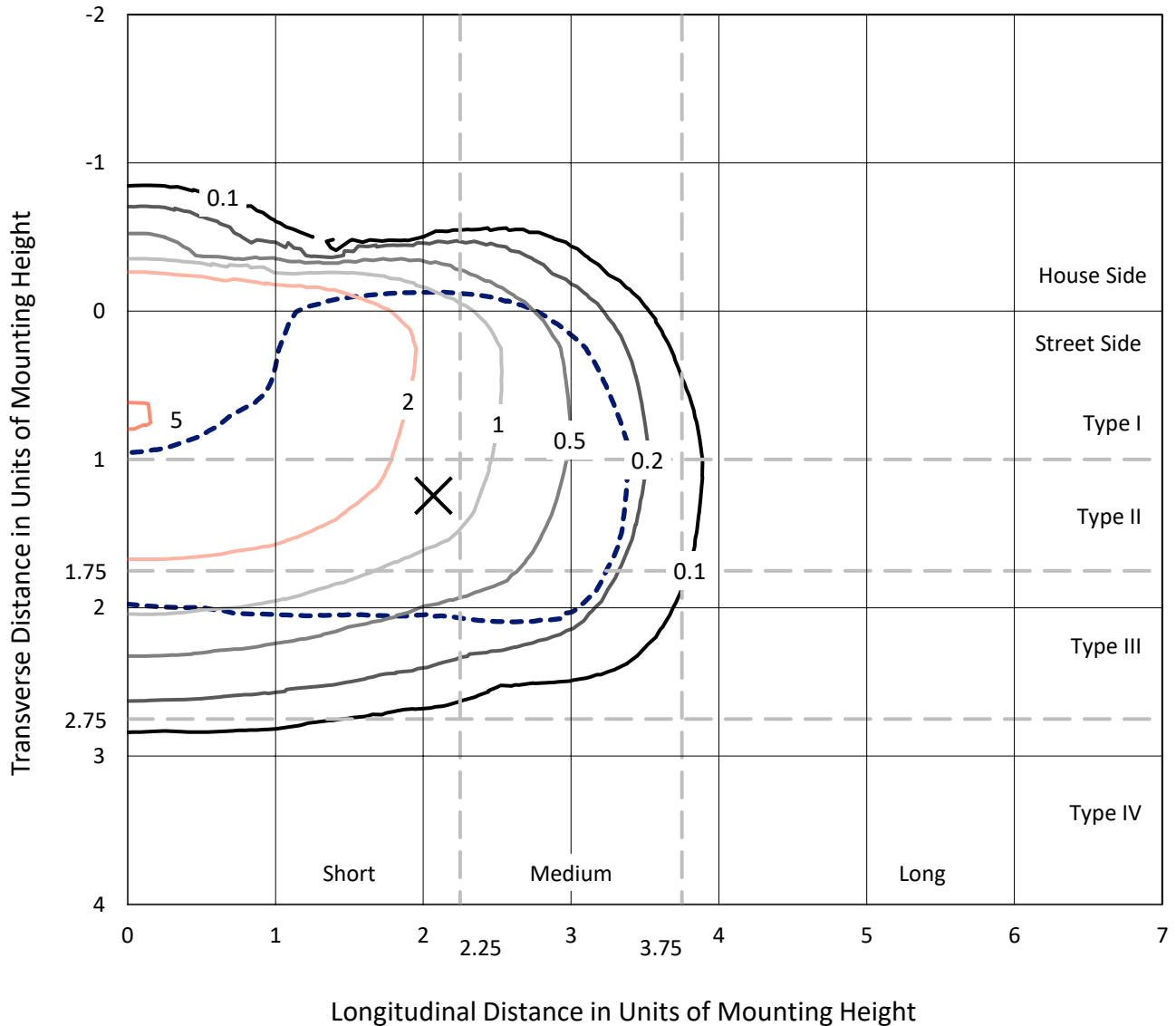
Lumens per Lamp: N/A
Luminaire Lumens: 20420.3 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

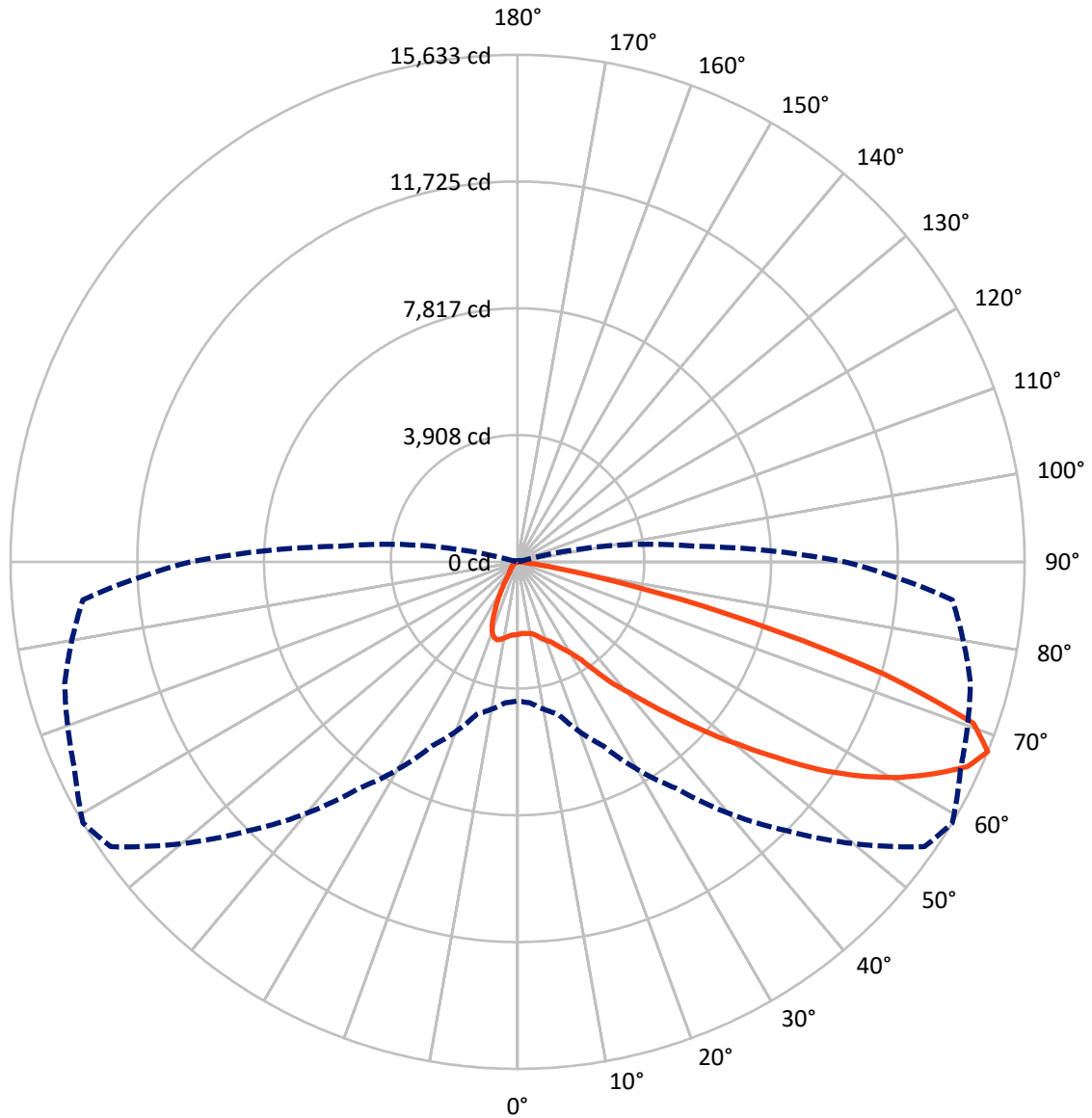
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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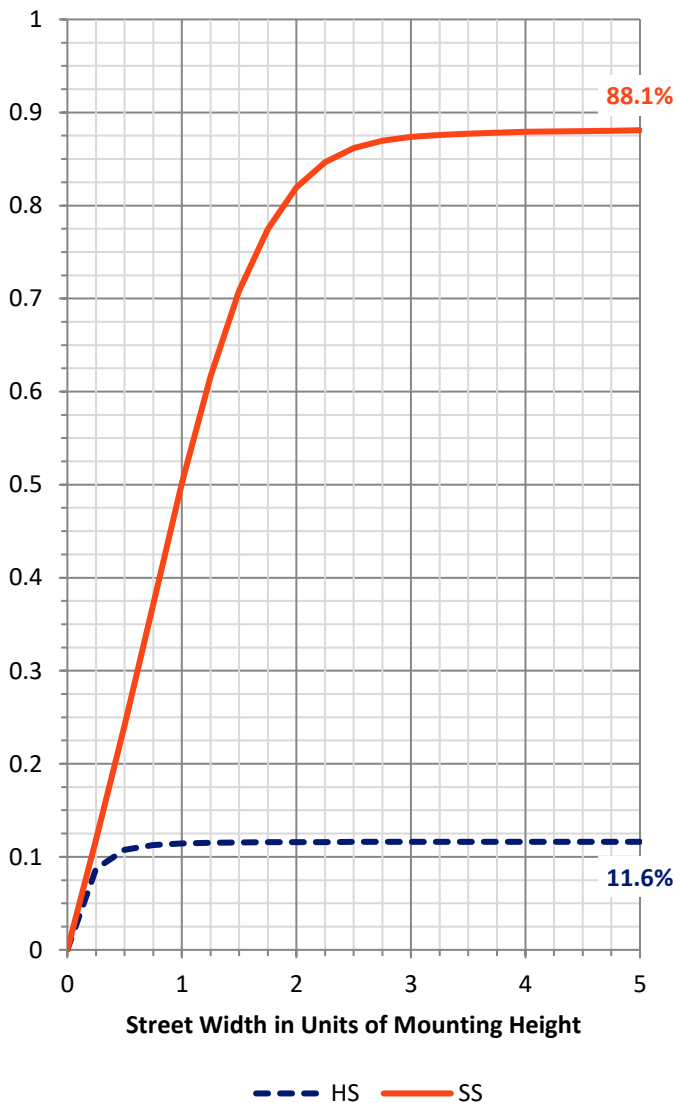
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2398.7	0.0	2398.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	18021.6	0.0	18021.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	20420.3	0.0	20420.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	1.0
10°-20°	614.6	3.0
20°-30°	1074.1	5.3
30°-40°	1891.1	9.3
40°-50°	3342.8	16.4
50°-60°	5292.8	25.9
60°-70°	5871.2	28.8
70°-80°	2037.2	10.0
80°-90°	83.9	0.4
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°	20420.3	100.0
0°-180°	20420.3	100.0

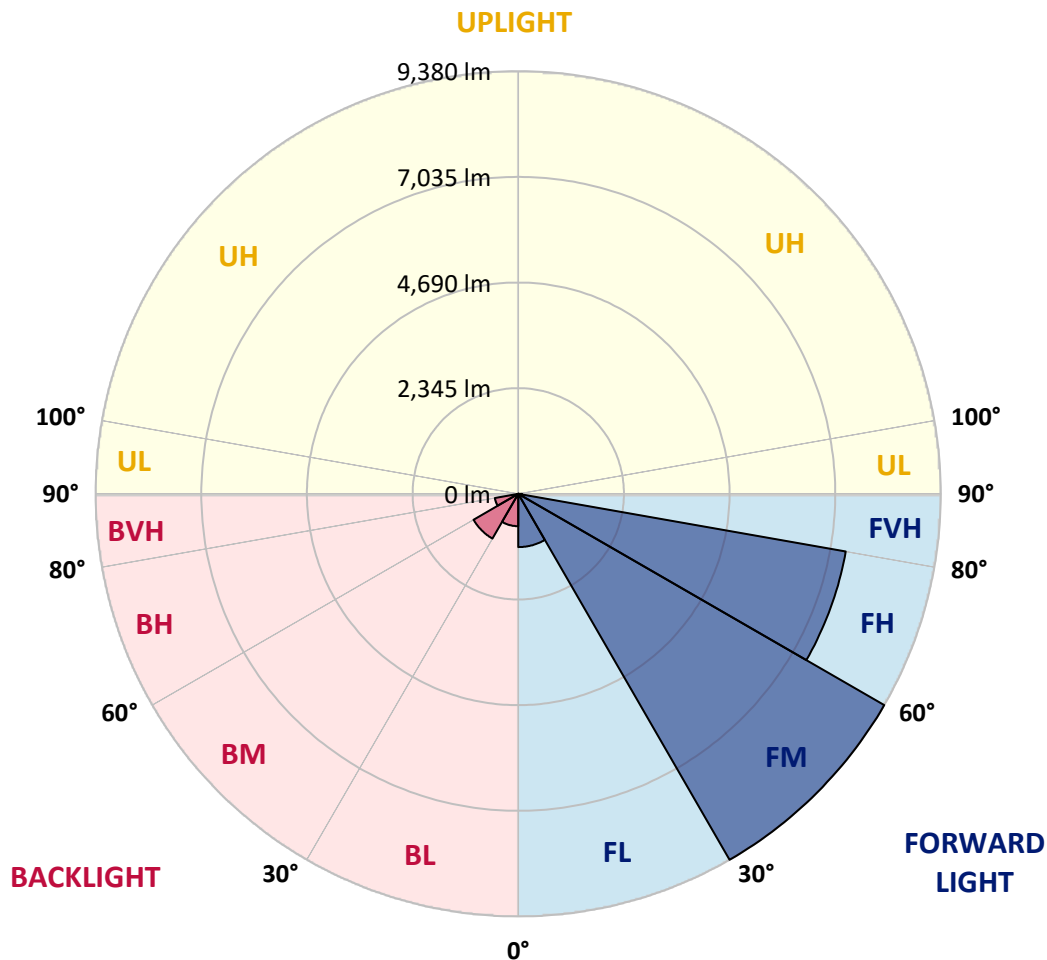


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.5	5.8			
FM (30°-60°)	9379.8	45.9			
FH (60°-80°)	7380.9	36.1			G3/7500
FVH (80°-90°)	78.5	0.4			G1/100
BL (0°-30°)	718.9	3.5	B2/1000		
BM (30°-60°)	1146.9	5.6	B2/2500		
BH (60°-80°)	527.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7
2.5°	2174.9	2143.8	2172.0	2174.9	2177.7	2203.1	2231.3	2211.5	2208.7	2231.3
5°	2087.4	2073.3	2107.2	2124.1	2152.3	2174.9	2220.0	2222.8	2225.6	2251.0
7.5°	2050.8	2016.9	2056.4	2076.1	2095.9	2149.5	2203.1	2231.3	2270.8	2301.8
10°	1977.4	2002.8	2014.1	2047.9	2104.3	2166.4	2231.3	2245.4	2332.8	2358.2
12.5°	2002.8	2019.7	2042.3	2050.8	2112.8	2205.9	2293.3	2299.0	2389.3	2499.3
15°	2067.7	2056.4	2064.9	2076.1	2149.5	2225.6	2366.7	2392.1	2476.7	2600.8
17.5°	2205.9	2186.2	2172.0	2169.2	2186.2	2256.7	2423.1	2499.3	2578.2	2747.5
20°	2552.9	2535.9	2479.5	2332.8	2282.1	2310.3	2490.8	2598.0	2708.0	2897.0
22.5°	3080.4	3097.3	2964.7	2758.8	2547.2	2437.2	2598.0	2691.1	2866.0	3105.7
25°	3703.8	3669.9	3509.1	3269.4	2936.5	2677.0	2770.1	2874.4	3088.8	3286.3
27.5°	4191.8	4152.3	4028.2	3737.6	3449.9	3029.6	2995.7	3060.6	3314.5	3492.2
30°	4674.1	4688.2	4603.6	4259.5	3904.0	3461.2	3246.8	3275.0	3469.6	3698.1
32.5°	5289.1	5255.2	5207.3	4905.4	4485.1	4011.2	3644.5	3599.4	3684.0	3985.8
35°	5861.7	5842.0	5777.1	5472.4	5105.7	4589.5	4231.3	4129.7	4110.0	4445.6
37.5°	6361.0	6327.1	6228.4	6033.8	5678.3	5243.9	4851.8	4761.6	4758.8	4990.1
40°	6781.3	6806.7	6795.4	6581.0	6386.4	6039.4	5438.6	5294.7	5283.4	5407.5
42.5°	7325.7	7385.0	7353.9	7311.6	7077.5	6942.1	6262.3	6042.2	5943.5	6197.4
45°	8149.4	8172.0	8191.7	8087.3	7853.2	7881.4	7114.2	6851.8	6826.4	7204.4
47.5°	8919.5	8860.3	8998.5	9004.1	8992.8	8863.1	8033.8	7839.1	7873.0	8160.7
50°	9111.3	9263.6	9644.5	9715.0	9898.3	10016.8	9054.9	8860.3	8916.7	9243.9
52.5°	9260.8	9492.1	9872.9	10389.2	10882.8	11164.9	10197.3	10039.4	10036.5	10236.8
55°	9523.2	9664.2	9994.2	10705.1	11644.4	12107.0	11573.9	11320.0	11091.5	11232.6
57.5°	9497.8	9551.4	10064.8	10942.0	12248.1	13088.7	12705.1	12462.5	12169.1	12087.3
60°	9052.1	9179.0	9754.5	10781.2	12620.4	13853.1	13760.1	13511.8	13006.9	12815.1
62.5°	8169.2	8338.4	8789.7	10217.1	12078.8	13892.6	14487.8	14394.7	13830.6	13486.4
65°	6620.5	6699.5	7218.5	8784.1	10854.6	13286.2	15348.2	15232.5	14713.5	14200.1
67.5°	4287.7	4363.8	4863.1	6270.7	8524.6	11720.6	15314.3	15633.1	15071.7	14454.0
70°	2025.4	2005.6	2471.1	3483.7	5461.1	8950.5	14279.1	14908.1	14431.4	13102.8
72.5°	617.8	671.4	1026.8	1543.0	2803.9	5582.4	11193.1	11782.6	11633.1	10468.1
75°	273.6	296.2	403.4	631.9	1136.8	2290.5	6913.9	7438.6	7373.7	6174.8
77.5°	174.9	191.8	253.9	361.1	516.2	727.8	3184.7	3695.3	3582.5	2169.2
80°	124.1	132.6	180.5	248.2	324.4	299.0	1097.3	1303.2	1249.6	589.6
82.5°	67.7	73.3	132.6	183.4	217.2	152.3	307.5	383.6	400.6	262.3
85°	25.4	31.0	81.8	129.8	112.8	70.5	90.3	110.0	143.9	143.9
87.5°	0.0	2.8	33.9	56.4	28.2	19.7	25.4	31.0	39.5	67.7
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°
2239.7	0°	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7	2239.7
2251.0	2.5°	2265.1	2245.4	2253.9	2268.0	2236.9	2253.9	2220.0	2245.4	2253.9	2220.0
2284.9	5°	2293.3	2313.1	2301.8	2279.2	2259.5	2265.1	2256.7	2236.9	2253.9	2259.5
2335.7	7.5°	2375.1	2352.6	2358.2	2332.8	2293.3	2290.5	2236.9	2222.8	2228.5	2234.1
2440.0	10°	2451.3	2465.4	2437.2	2417.5	2352.6	2310.3	2236.9	2157.9	2149.5	2115.6
2541.6	12.5°	2586.7	2552.9	2541.6	2476.7	2411.8	2270.8	2112.8	1991.5	1890.0	1853.3
2705.2	15°	2699.5	2693.9	2674.2	2575.4	2425.9	2169.2	1870.2	1588.1	1393.5	1272.2
2801.1	17.5°	2854.7	2829.3	2792.6	2637.5	2321.6	1904.1	1393.5	1038.1	843.4	767.3
2984.4	20°	2973.2	2953.4	2902.6	2623.4	2132.6	1418.9	863.2	660.1	612.1	598.0
3184.7	22.5°	3145.2	3083.2	2987.3	2552.9	1788.4	945.0	620.6	589.6	581.1	569.8
3317.3	25°	3294.7	3238.3	3038.0	2431.6	1275.0	626.2	575.5	558.5	544.4	530.3
3458.3	27.5°	3427.3	3356.8	3091.6	2183.3	798.3	538.8	533.1	513.4	485.2	462.6
3622.0	30°	3557.1	3475.3	3105.7	1717.9	538.8	488.0	473.9	442.9	406.2	375.2
3895.6	32.5°	3774.3	3675.6	3086.0	1227.1	465.4	434.4	403.4	366.7	313.1	287.7
4287.7	35°	4112.8	3963.3	3060.6	722.1	417.5	383.6	335.7	287.7	248.2	222.8
4685.4	37.5°	4502.1	4242.5	2987.3	482.4	383.6	338.5	276.4	228.5	194.6	174.9
5229.8	40°	5080.3	4651.6	2705.2	394.9	341.3	287.7	222.8	180.5	155.1	141.0
6036.6	42.5°	5717.8	5119.8	2270.8	355.4	301.8	245.4	177.7	146.7	126.9	112.8
6843.4	45°	6482.3	5607.8	1751.7	324.4	268.0	203.1	146.7	118.5	101.6	90.3
7788.3	47.5°	7334.2	6050.7	1181.9	293.4	225.7	166.4	121.3	90.3	73.3	64.9
8817.9	50°	8095.8	6442.8	753.2	256.7	197.5	138.2	98.7	73.3	59.2	48.0
9650.1	52.5°	8786.9	6741.8	519.0	225.7	169.3	112.8	81.8	59.2	45.1	36.7
10513.3	55°	9494.9	6894.1	383.6	194.6	146.7	95.9	67.7	53.6	39.5	31.0
11506.2	57.5°	10076.0	6959.0	293.4	169.3	124.1	76.2	59.2	45.1	33.9	25.4
12267.8	60°	10572.5	6928.0	228.5	141.0	98.7	64.9	50.8	36.7	28.2	19.7
13260.8	62.5°	10863.1	6741.8	180.5	121.3	79.0	56.4	42.3	31.0	19.7	14.1
13771.3	65°	10868.7	6346.9	141.0	90.3	59.2	48.0	36.7	25.4	14.1	5.6
13452.6	67.5°	10090.1	5492.2	112.8	70.5	48.0	36.7	28.2	19.7	5.6	0.0
11173.3	70°	7892.7	4155.1	93.1	56.4	39.5	31.0	19.7	11.3	2.8	0.0
7458.3	72.5°	5029.6	2488.0	76.2	45.1	33.9	22.6	14.1	8.5	0.0	0.0
3404.8	75°	2104.3	767.3	59.2	39.5	25.4	16.9	11.3	2.8	0.0	0.0
891.4	77.5°	541.6	242.6	48.0	33.9	25.4	14.1	8.5	2.8	0.0	0.0
239.8	80°	160.8	90.3	39.5	28.2	19.7	11.3	5.6	2.8	0.0	0.0
115.7	82.5°	73.3	53.6	33.9	25.4	16.9	11.3	5.6	0.0	0.0	0.0
53.6	85°	28.2	16.9	16.9	14.1	14.1	8.5	2.8	0.0	0.0	0.0
19.7	87.5°	11.3	5.6	5.6	5.6	2.8	2.8	0.0	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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180°
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