

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: P575415

Luminaire Tested: **EPH-VN-03-740-U-SL3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575415  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-740-U-SL3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

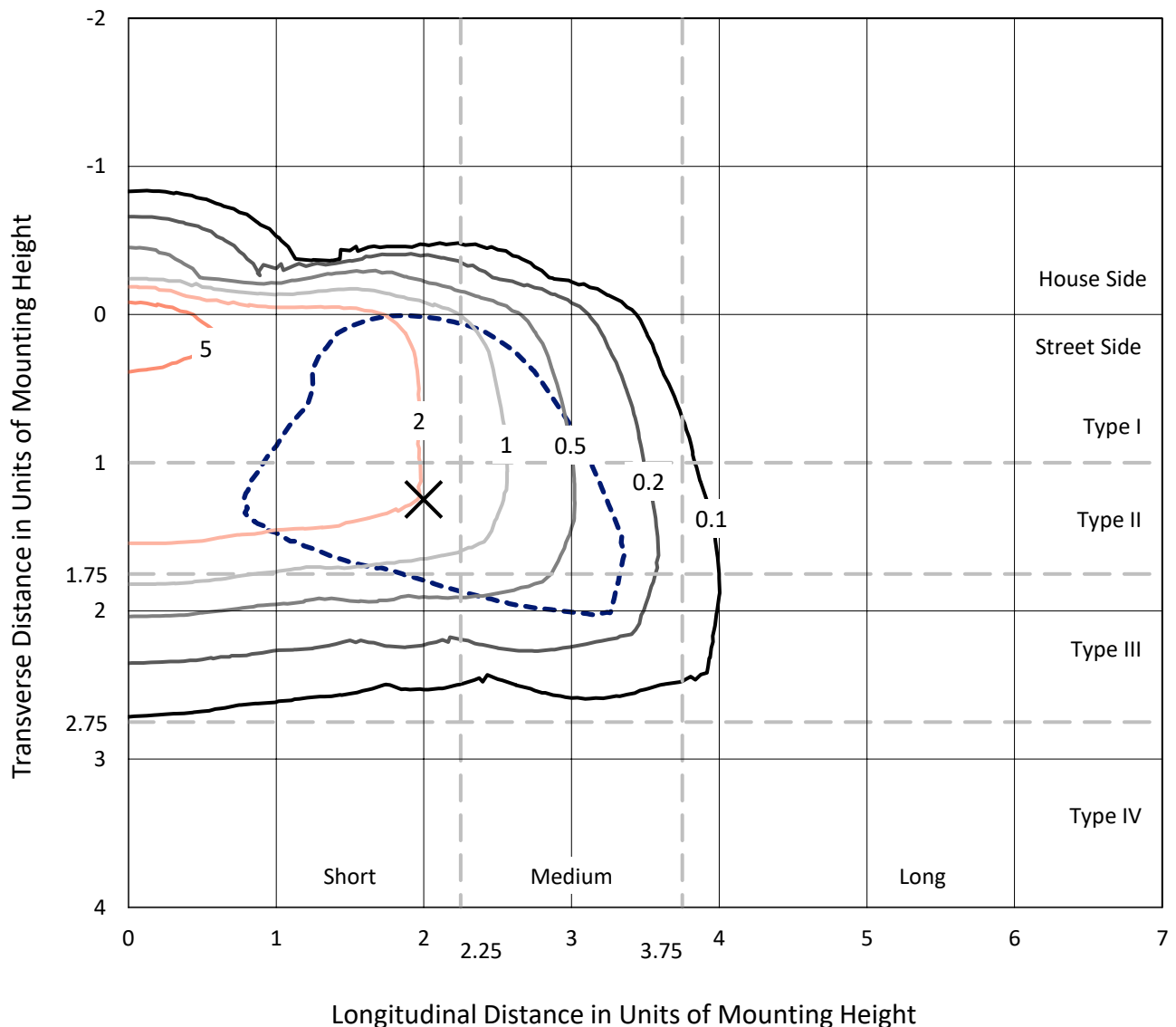
Lumens per Lamp: N/A  
Luminaire Lumens: 19492.1 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

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

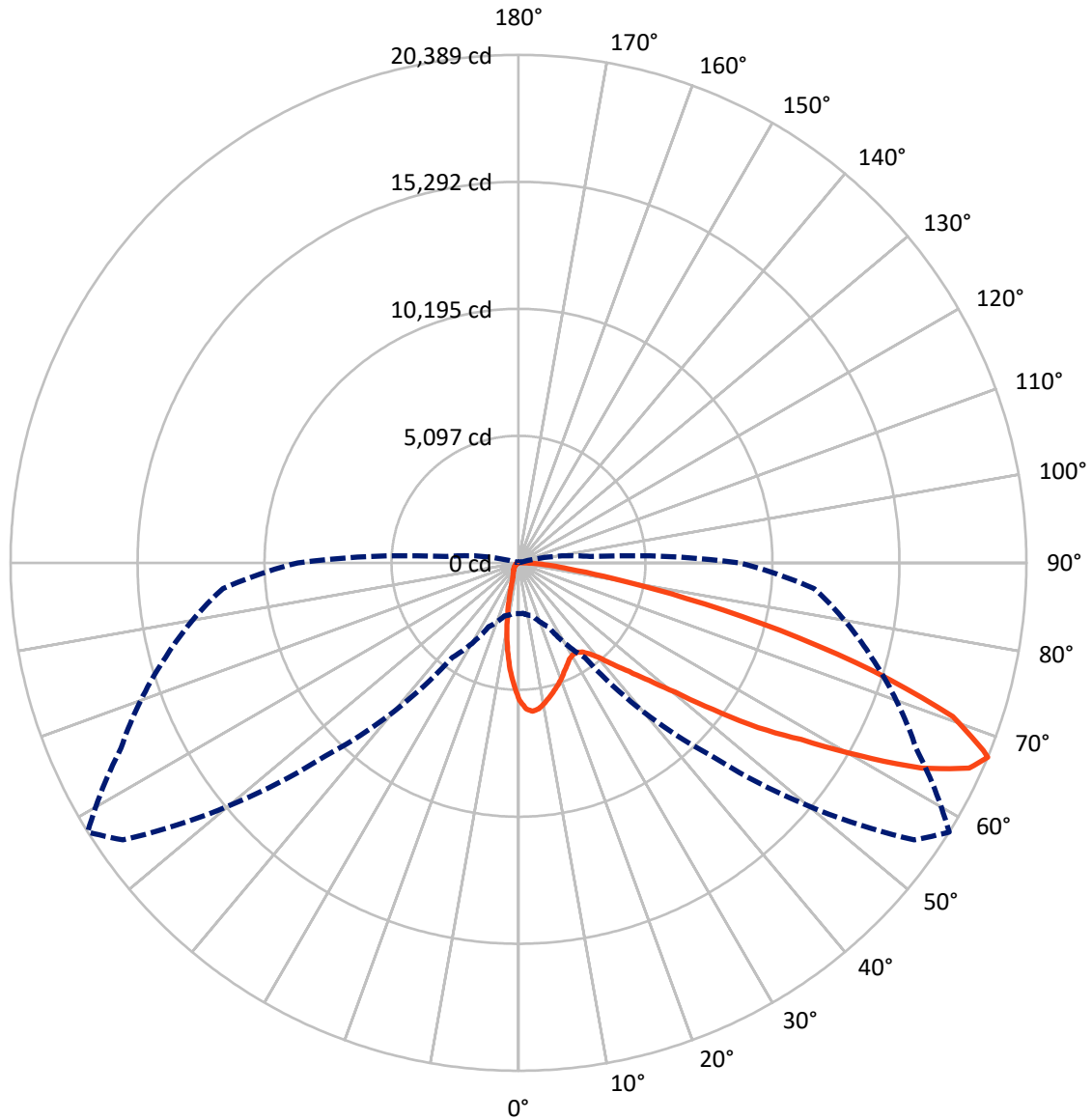
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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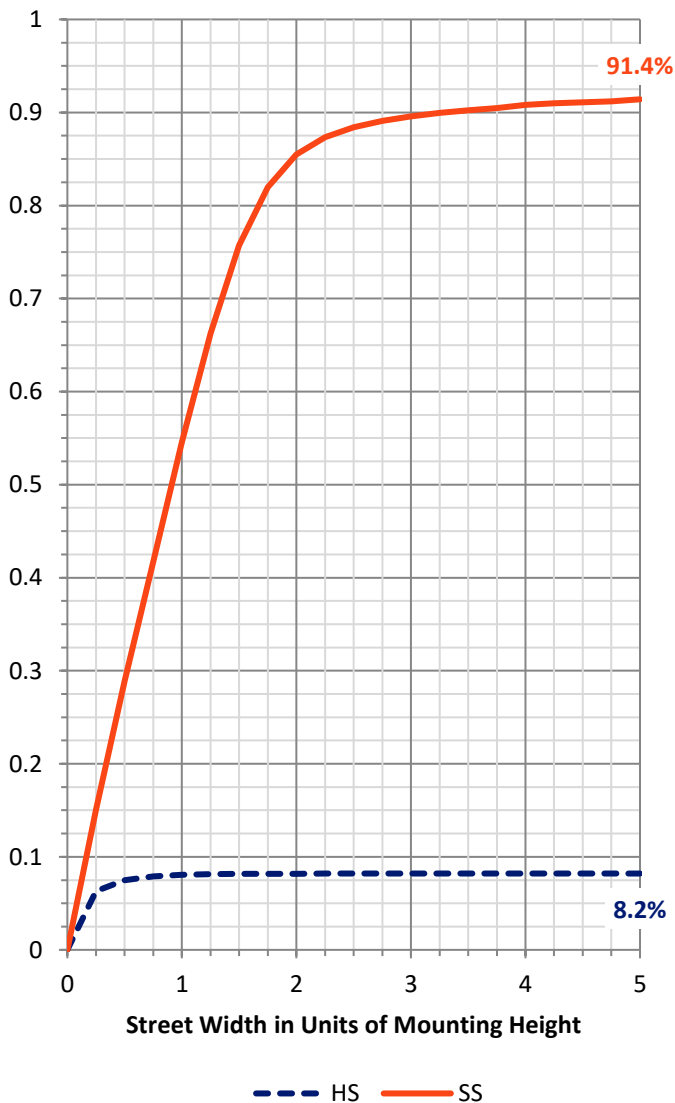
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1611.2	0.0	1611.2
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	17880.9	0.0	17880.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	19492.1	0.0	19492.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.2	2.2
10°-20°	908.9	4.7
20°-30°	1205.9	6.2
30°-40°	1670.9	8.6
40°-50°	2726.5	14.0
50°-60°	4792.3	24.6
60°-70°	5307.8	27.2
70°-80°	2199.6	11.3
80°-90°	242.1	1.2
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°	19492.1	100.0
0°-180°	19492.1	100.0

**Coefficient of Utilization**



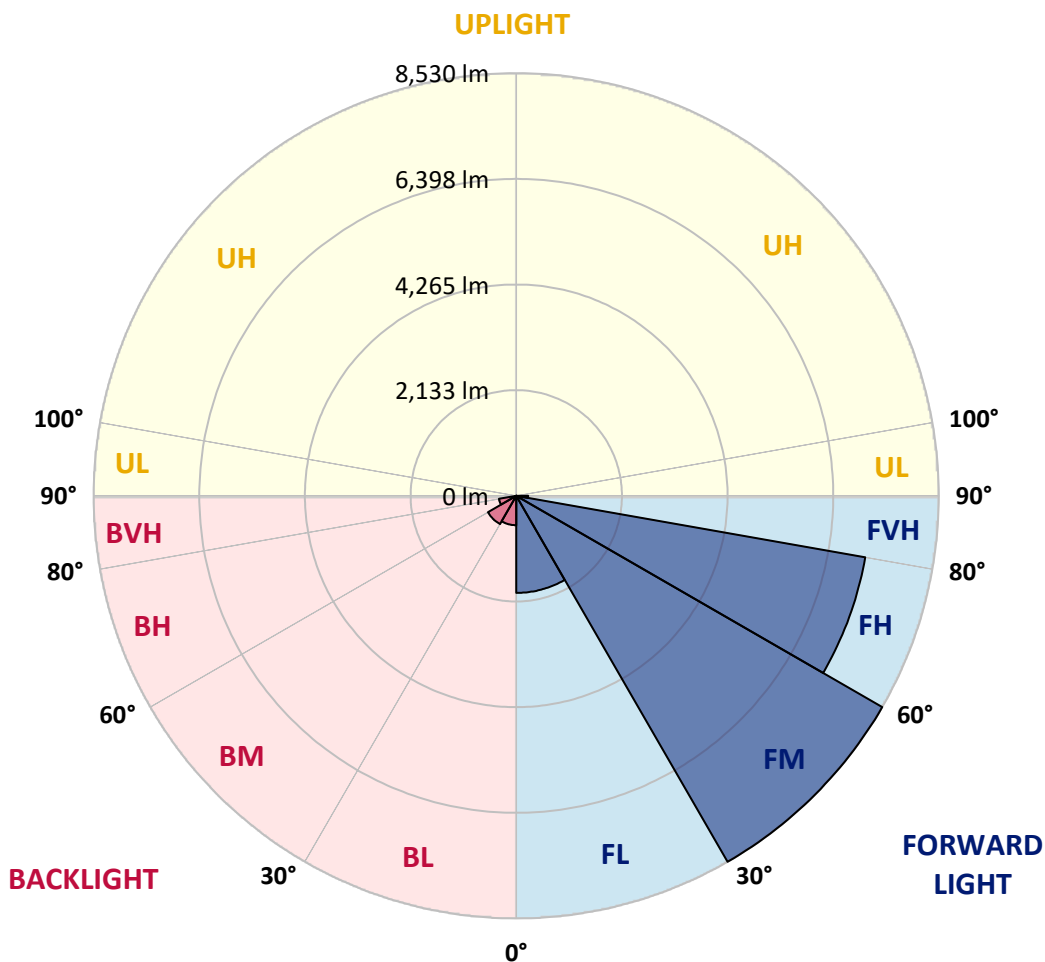
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.5	10.1			
FM (30°-60°)	8530.1	43.8			
FH (60°-80°)	7153.2	36.7			G3/7500
FVH (80°-90°)	238.1	1.2			G3/500
BL (0°-30°)	593.4	3.0	B2/1000		
BM (30°-60°)	659.5	3.4	B1/1000		
BH (60°-80°)	354.2	1.8	B1/500		G1/500
BVH (80°-90°)	4.0	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°	58°	65°	75°
0°	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4
2.5°	6008.9	6029.6	6047.7	6014.1	6042.5	6001.1	5895.0	5871.7	5853.6	5695.8
5°	6006.3	5983.0	6001.1	6016.6	5977.8	6008.9	5983.0	5985.6	5915.7	5773.4
7.5°	5605.2	5594.8	5605.2	5680.2	5765.6	5832.9	5871.7	5910.5	5864.0	5651.8
10°	5064.3	5116.1	5144.6	5279.1	5411.1	5535.3	5656.9	5729.4	5716.5	5631.1
12.5°	4686.5	4671.0	4774.5	4862.5	4994.5	5245.5	5457.7	5525.0	5602.6	5483.6
15°	4337.2	4295.8	4357.9	4510.5	4735.7	4934.9	5232.5	5333.5	5431.8	5462.9
17.5°	4003.3	4024.0	4088.7	4225.9	4438.1	4717.6	4997.1	5142.0	5377.5	5336.1
20°	3842.9	3886.9	3910.2	3980.0	4127.5	4407.0	4823.7	4940.1	5191.1	5333.5
22.5°	3850.7	3850.7	3796.3	3837.7	3972.3	4189.7	4588.2	4717.6	5116.1	5198.9
25°	3933.5	3881.7	3884.3	3835.1	3892.1	4011.1	4376.0	4533.8	4963.4	5211.8
27.5°	3995.6	3985.2	3969.7	3956.8	3884.3	3902.4	4236.2	4365.6	4903.9	5196.3
30°	4220.7	4174.1	4158.6	4130.1	4034.4	3946.4	4125.0	4288.0	4857.3	5232.5
32.5°	4409.6	4417.4	4430.3	4347.5	4264.7	4047.3	4156.0	4285.4	4823.7	5315.4
35°	4647.7	4681.3	4686.5	4660.6	4572.7	4357.9	4285.4	4396.7	4880.6	5462.9
37.5°	5010.0	4973.8	5072.1	5082.4	5020.3	4735.7	4585.6	4629.6	5048.8	5698.3
40°	5245.5	5289.5	5473.2	5587.1	5481.0	5222.2	5020.3	5012.6	5292.1	6068.4
42.5°	5506.8	5605.2	5807.0	6052.9	6039.9	5799.3	5594.8	5561.2	5724.2	6604.1
45°	5864.0	5952.0	6234.0	6604.1	6805.9	6601.5	6293.5	6226.3	6249.5	7333.8
47.5°	6456.6	6433.3	6839.6	7204.4	7535.7	7377.8	7245.9	7049.2	7031.1	8193.0
50°	7126.8	7121.6	7483.9	7898.0	8281.0	8588.9	8369.0	8154.2	8159.3	9360.1
52.5°	7763.4	7864.3	8255.1	8666.6	9323.9	9655.1	9867.3	9781.9	9370.4	10403.0
55°	8099.8	8187.8	8576.0	9285.0	10322.8	11174.1	11748.6	11676.2	10881.7	11577.8
57.5°	7781.5	7841.0	8366.4	9295.4	11021.5	12920.9	13472.1	13381.5	12444.8	12475.8
60°	6448.8	6542.0	7323.5	8413.0	10749.7	14266.6	15845.1	15708.0	13868.0	13611.9
62.5°	4466.6	4528.7	5170.4	6526.4	9461.0	14735.0	18086.2	18161.2	15369.0	14496.9
65°	2893.2	2888.0	3255.5	4174.1	6705.0	13316.8	19411.1	19876.9	16818.1	14631.4
67°	2044.4	2036.6	2210.0	2831.1	4642.5	10972.3	19387.8	20389.3	17604.8	14670.3
67.5°	1886.5	1878.7	2044.4	2603.3	4189.7	10203.7	19098.0	20125.4	17881.7	14615.9
70°	1464.7	1444.0	1506.1	1793.3	2440.3	6598.9	16344.6	18487.3	17307.2	13259.9
72.5°	1058.4	1081.7	1180.0	1472.5	1915.0	3550.5	12457.7	14949.7	14455.5	9994.1
75°	737.5	758.2	916.1	1200.7	1757.1	2153.1	8423.3	10842.9	10069.1	5517.2
77.5°	385.6	411.5	584.8	960.1	1596.7	1666.5	5033.3	6875.8	5336.1	1964.1
80°	178.6	191.5	292.4	680.6	1335.3	1464.7	2934.6	3824.8	2134.9	439.9
82.5°	77.6	85.4	134.6	390.8	947.1	1281.0	1816.6	2005.5	773.8	142.3
85°	15.5	18.1	51.8	207.0	458.0	776.3	1275.8	1190.4	388.2	69.9
87.5°	0.0	0.0	12.9	59.5	124.2	230.3	540.9	540.9	119.0	36.2
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°
5522.4	0°	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4	5522.4
5605.2	2.5°	5525.0	5431.8	5227.4	5038.5	4903.9	4751.2	4549.4	4458.8	4425.1	4378.6
5519.8	5°	5380.0	5266.2	4916.8	4564.9	4179.3	3886.9	3576.3	3395.2	3258.0	3172.6
5405.9	7.5°	5175.6	4942.7	4471.7	3907.6	3408.1	2973.4	2502.4	2184.1	1979.7	1896.9
5281.7	10°	5012.6	4709.8	3993.0	3291.7	2626.6	1990.0	1459.5	1180.0	967.8	887.6
5118.7	12.5°	4800.4	4438.1	3545.3	2662.9	1827.0	1185.2	807.4	701.3	641.8	631.4
5030.7	15°	4624.4	4192.2	3120.9	2062.5	1182.6	740.1	628.8	603.0	587.4	582.3
4898.7	17.5°	4505.4	3928.3	2686.1	1500.9	778.9	605.5	579.7	564.1	556.4	553.8
4769.3	20°	4269.9	3705.7	2256.6	1050.6	608.1	559.0	538.3	525.3	517.6	515.0
4652.9	22.5°	4135.3	3423.7	1827.0	732.3	540.9	507.2	491.7	481.3	468.4	460.6
4590.8	25°	4000.7	3216.6	1444.0	569.3	491.7	468.4	445.1	432.2	411.5	401.1
4495.0	27.5°	3842.9	3012.2	1112.8	494.3	442.5	419.2	395.9	375.2	349.4	339.0
4440.7	30°	3752.3	2812.9	838.4	442.5	406.3	375.2	346.8	320.9	292.4	274.3
4495.0	32.5°	3705.7	2631.8	628.8	403.7	367.5	333.8	297.6	266.5	240.7	225.1
4500.2	35°	3648.8	2455.8	494.3	367.5	331.2	295.0	258.8	227.7	201.8	188.9
4696.9	37.5°	3708.3	2352.3	411.5	339.0	302.8	261.4	222.6	191.5	170.8	157.9
4940.1	40°	3871.4	2266.9	357.1	313.1	274.3	230.3	194.1	163.0	144.9	134.6
5325.7	42.5°	4122.4	2266.9	323.5	287.2	248.4	201.8	165.6	142.3	124.2	113.9
5983.0	45°	4577.8	2336.8	295.0	261.4	217.4	173.4	142.3	119.0	100.9	90.6
6891.3	47.5°	5217.0	2497.2	271.7	238.1	194.1	152.7	124.2	100.9	82.8	72.5
7960.1	50°	6076.2	2862.1	248.4	209.6	173.4	132.0	103.5	80.2	64.7	54.3
9103.9	52.5°	7147.5	3379.7	225.1	194.1	147.5	111.3	82.8	64.7	49.2	41.4
10232.2	55°	8281.0	4013.7	196.7	173.4	126.8	93.2	67.3	49.2	36.2	31.1
11596.0	57.5°	9422.2	4502.8	173.4	150.1	103.5	75.0	54.3	38.8	25.9	20.7
12473.2	60°	10027.7	4549.4	150.1	124.2	82.8	59.5	41.4	28.5	18.1	12.9
12734.6	62.5°	10120.9	4135.3	129.4	100.9	67.3	46.6	28.5	20.7	10.4	5.2
12654.4	65°	9642.2	3447.0	111.3	80.2	51.8	33.6	20.7	12.9	5.2	2.6
11911.7	67°	8865.8	2888.0	95.7	67.3	41.4	25.9	15.5	7.8	2.6	0.0
11585.6	67.5°	8565.6	2732.7	90.6	62.1	38.8	23.3	12.9	7.8	2.6	0.0
9251.4	70°	6648.1	1951.2	67.3	44.0	28.5	18.1	10.4	5.2	0.0	0.0
5879.5	72.5°	4073.2	1141.2	51.8	31.1	20.7	12.9	7.8	2.6	0.0	0.0
2505.0	75°	1708.0	393.3	44.0	23.3	15.5	7.8	5.2	2.6	0.0	0.0
690.9	77.5°	445.1	147.5	31.1	15.5	10.4	7.8	5.2	2.6	0.0	0.0
238.1	80°	181.1	67.3	20.7	10.4	10.4	7.8	5.2	2.6	0.0	0.0
147.5	82.5°	119.0	31.1	12.9	10.4	7.8	5.2	2.6	0.0	0.0	0.0
116.5	85°	90.6	18.1	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0
44.0	87.5°	38.8	10.4	7.8	5.2	5.2	0.0	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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