

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: P575243

Luminaire Tested: **EPH-VN-03-730-U-T3R-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575243  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-730-U-T3R-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

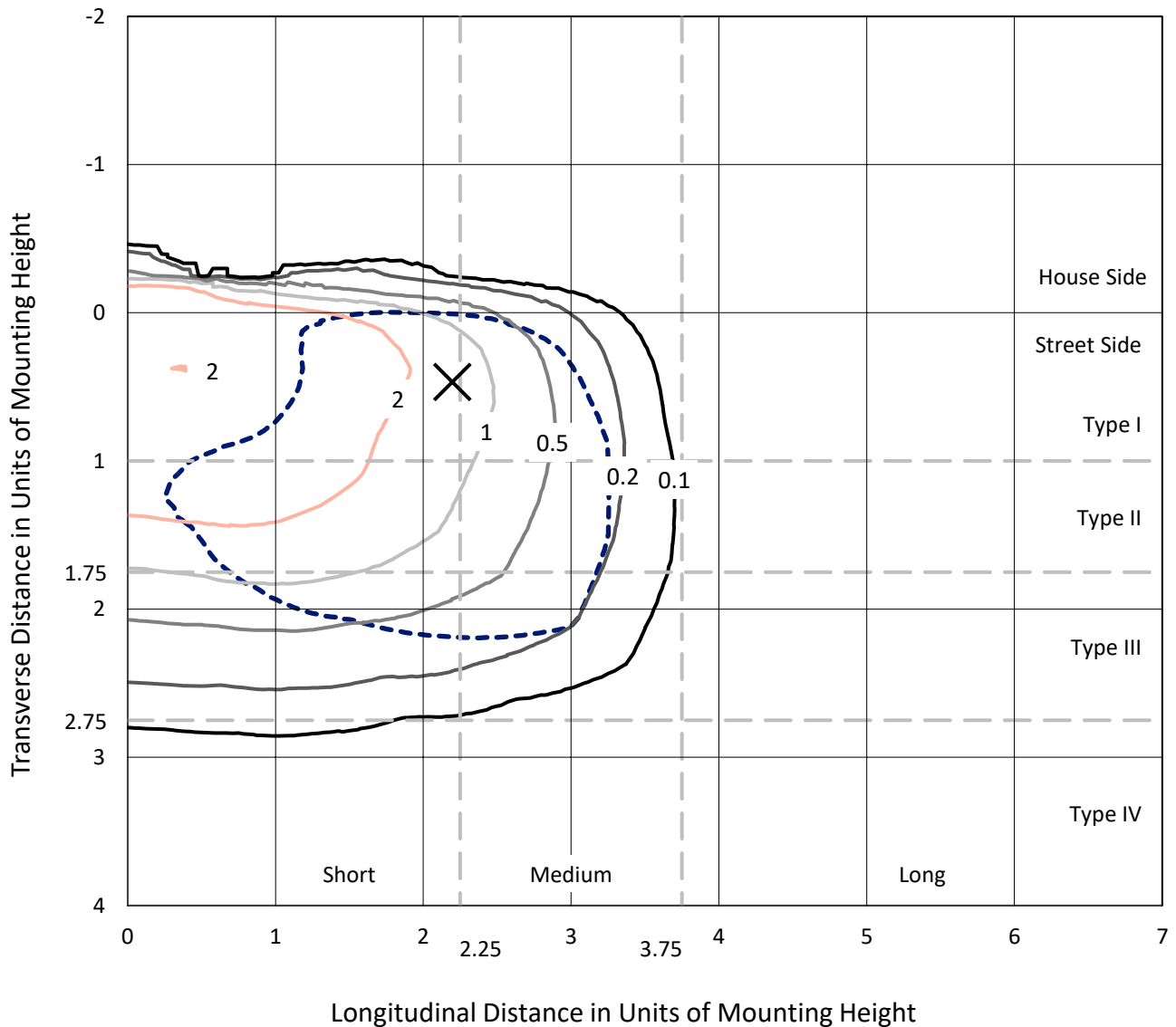
Lumens per Lamp: N/A  
Luminaire Lumens: 15213.8 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

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

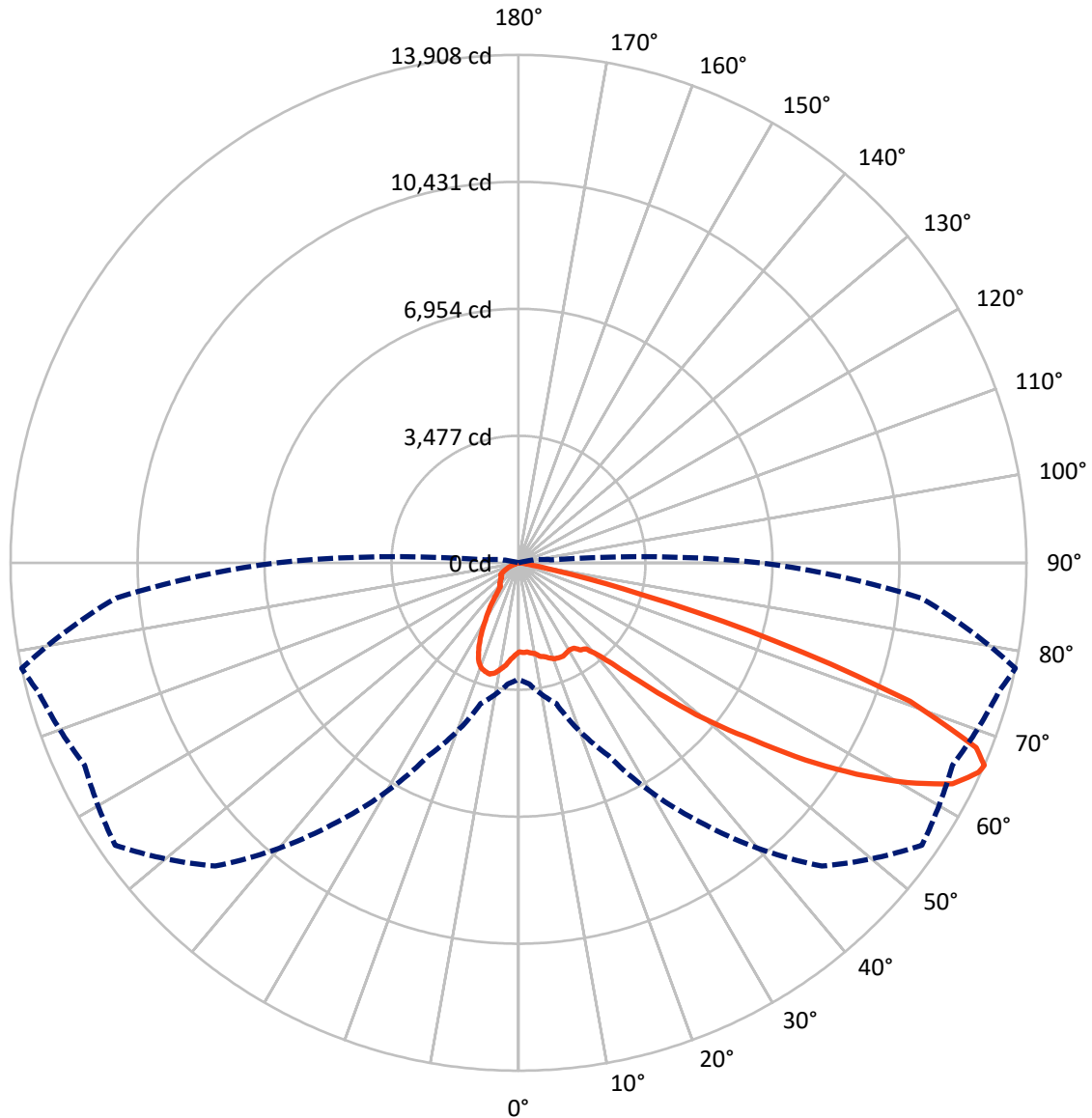
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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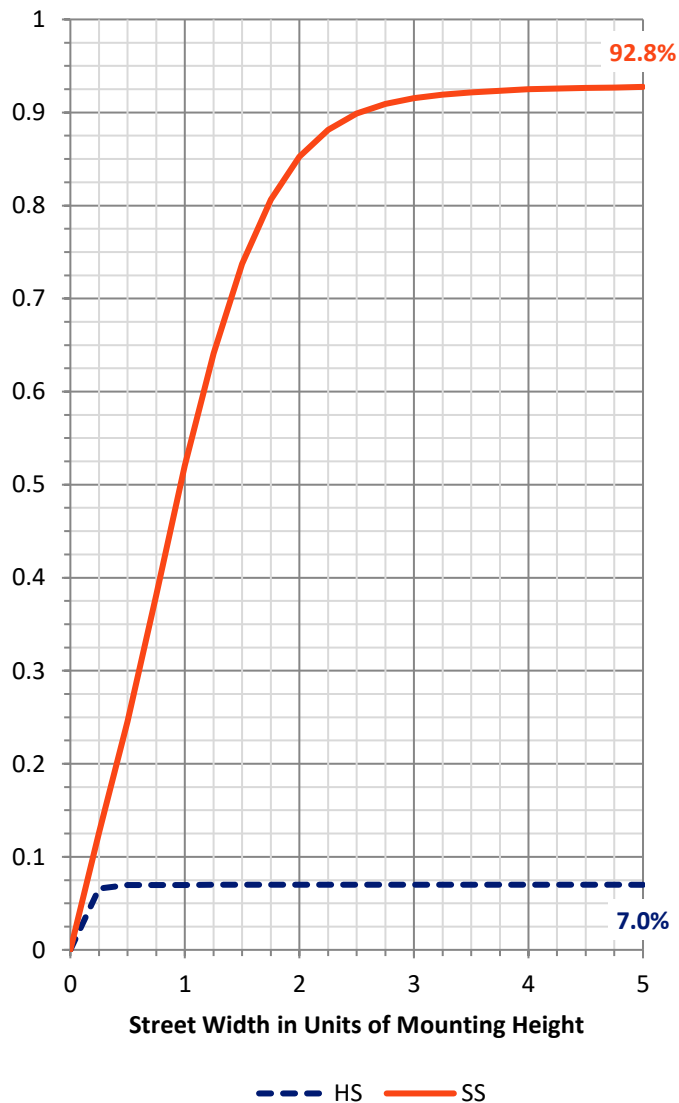
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1069.6	0.0	1069.6
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	14144.2	0.0	14144.2
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	15213.8	0.0	15213.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.9	1.5
10°-20°	503.2	3.3
20°-30°	719.3	4.7
30°-40°	1231.2	8.1
40°-50°	2222.2	14.6
50°-60°	3800.2	25.0
60°-70°	4677.4	30.7
70°-80°	1768.3	11.6
80°-90°	69.1	0.5
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°	15213.8	100.0
0°-180°	15213.8	100.0

**Coefficient of Utilization**

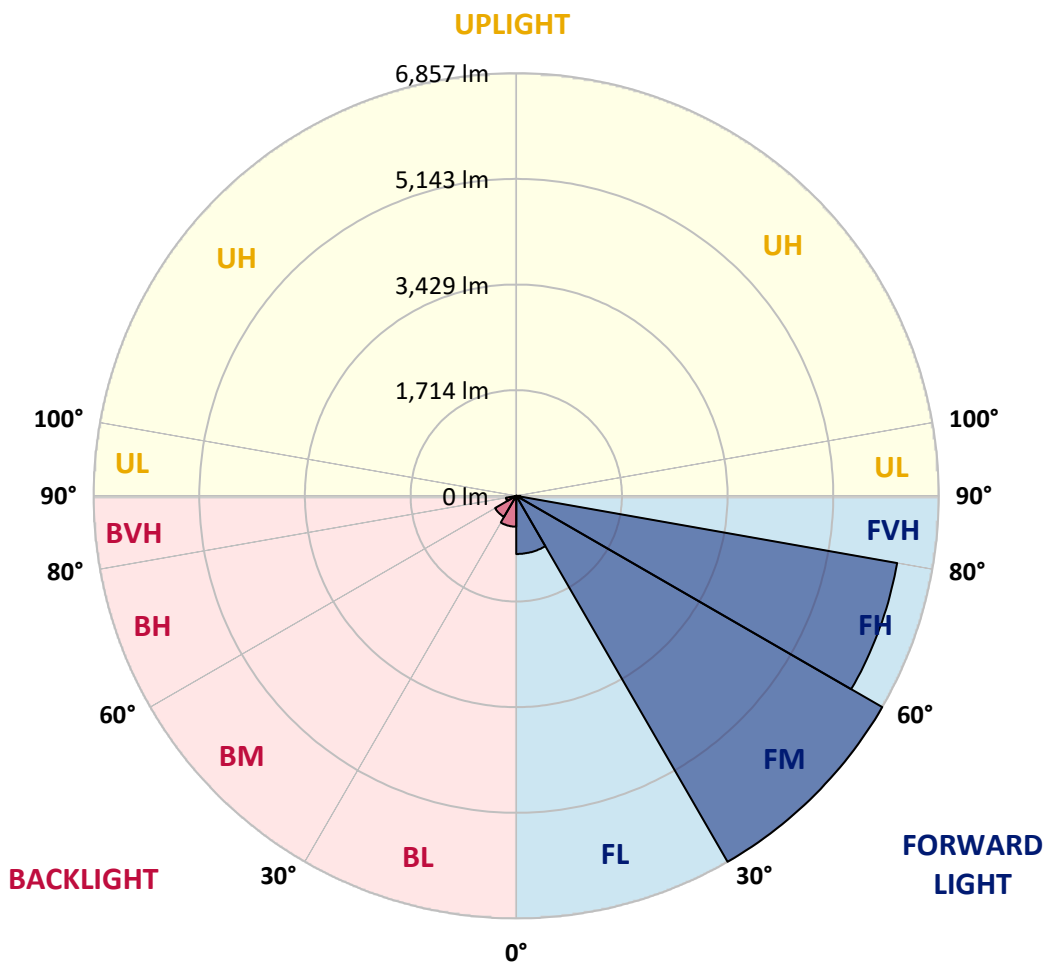


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.5	6.2			
FM (30°-60°)	6857.1	45.1			
FH (60°-80°)	6276.2	41.3			G3/7500
FVH (80°-90°)	66.3	0.4			G1/100
BL (0°-30°)	500.9	3.3	B2/1000		
BM (30°-60°)	396.4	2.6	B1/1000		
BH (60°-80°)	169.5	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7
2.5°	2241.3	2220.7	2241.3	2271.2	2287.3	2301.1	2349.4	2390.8	2434.4	2464.3
5°	2078.1	2117.2	2121.8	2131.0	2156.3	2239.0	2266.6	2337.9	2445.9	2455.1
7.5°	1949.4	1937.9	1967.8	2027.6	2091.9	2140.2	2220.7	2344.8	2457.4	2496.5
10°	1763.2	1786.2	1818.4	1878.1	1956.3	2075.8	2218.4	2356.3	2517.2	2531.0
12.5°	1662.0	1639.1	1689.6	1751.7	1885.0	1995.4	2170.1	2335.6	2554.0	2629.8
15°	1579.3	1590.8	1639.1	1680.4	1790.8	1931.0	2135.6	2386.2	2616.1	2668.9
17.5°	1544.8	1537.9	1574.7	1616.1	1751.7	1910.3	2121.8	2388.5	2671.2	2740.2
20°	1560.9	1574.7	1563.2	1602.3	1687.3	1848.3	2142.5	2432.2	2712.6	2806.9
22.5°	1813.8	1795.4	1703.4	1629.9	1634.5	1823.0	2126.4	2459.7	2749.4	2825.2
25°	2473.5	2374.7	2147.1	1864.3	1678.1	1754.0	2108.0	2450.5	2742.5	2836.7
27.5°	3137.9	3052.8	2829.8	2390.8	1855.1	1726.4	2043.7	2457.4	2708.0	2795.4
30°	3839.0	3885.0	3554.0	3032.1	2319.5	1878.1	2002.3	2420.7	2685.0	2758.6
32.5°	4558.6	4540.2	4340.2	3774.7	2983.9	2213.8	2068.9	2457.4	2714.9	2786.2
35°	5121.8	5057.4	4855.1	4344.8	3533.3	2719.5	2298.8	2632.1	2845.9	2931.0
37.5°	5399.9	5427.5	5310.3	4866.6	4135.6	3188.5	2586.2	2632.1	2887.3	2986.2
40°	5616.0	5698.8	5655.1	5512.6	4733.3	3717.2	2903.4	2795.4	3096.5	3282.7
42.5°	5875.8	5836.7	6094.2	5963.1	5514.9	4383.8	3459.7	3183.9	3590.8	3770.1
45°	6013.7	6163.1	6358.5	6526.3	6239.0	5216.0	4186.1	3871.2	4347.1	4574.7
47.5°	6367.7	6427.5	6744.7	6956.2	6827.5	6167.7	5289.6	4875.8	5298.8	5657.4
50°	6574.6	6494.2	6937.8	7259.7	7333.2	6956.2	6278.1	5956.2	6429.8	6887.3
52.5°	6393.0	6622.9	7066.6	7643.6	7848.2	7659.7	7439.0	7298.8	7632.1	8055.1
55°	5756.2	5912.6	6993.0	8064.3	8724.0	8636.7	8841.3	8749.3	9084.9	9533.2
57.5°	5243.6	5439.0	6388.4	8282.6	9540.1	9797.6	10055.0	9997.6	10402.2	10919.4
60°	4924.1	5036.7	5951.6	8227.5	10022.9	10997.6	11579.2	11174.6	11834.3	12229.7
62.5°	4370.1	4441.3	5314.9	7496.4	10167.7	11845.8	12832.0	12282.6	12855.0	13337.7
65°	3503.4	3696.5	4418.3	6402.2	9211.4	12002.1	13613.6	12967.6	13521.7	13838.9
66°	3188.5	3328.7	3990.7	5822.9	8666.5	11742.4	13482.6	13110.2	13618.2	13907.9
67.5°	2645.9	2767.8	3294.2	4997.6	7551.6	11170.0	13574.5	13013.6	13691.8	13514.8
70°	1751.7	1829.9	2252.8	3379.3	5259.7	9137.8	12590.6	12259.6	12036.6	11372.3
72.5°	818.4	931.0	1406.9	2048.2	3085.0	6393.0	10266.5	9822.9	8441.3	7379.2
75°	370.1	420.7	772.4	1174.7	1383.9	3312.6	6622.9	5981.5	4202.2	3489.6
77.5°	200.0	227.6	377.0	558.6	503.4	1160.9	3278.1	2726.4	1324.1	970.1
80°	154.0	181.6	314.9	319.5	186.2	301.1	1218.4	843.7	331.0	250.6
82.5°	80.5	114.9	248.3	206.9	94.3	121.8	377.0	234.5	103.4	82.8
85°	32.2	50.6	140.2	137.9	55.2	41.4	105.7	71.3	41.4	34.5
87.5°	2.3	2.3	75.9	52.9	34.5	11.5	16.1	16.1	20.7	18.4
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°
2436.7	0°	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7
2455.1	2.5°	2496.5	2524.1	2528.7	2604.6	2620.7	2604.6	2645.9	2639.0	2657.4	2643.6
2496.5	5°	2554.0	2593.1	2668.9	2726.4	2726.4	2680.4	2643.6	2595.4	2524.1	2505.7
2577.0	7.5°	2652.8	2777.0	2845.9	2809.2	2735.6	2563.2	2324.1	2149.4	2002.3	1947.1
2680.4	10°	2827.5	2896.5	2977.0	2827.5	2521.8	2156.3	1754.0	1489.6	1282.7	1236.8
2802.3	12.5°	2940.2	3050.5	3096.5	2726.4	2126.4	1581.6	1144.8	846.0	701.1	590.8
2931.0	15°	3087.3	3213.7	3119.5	2452.8	1675.8	1036.8	593.1	370.1	301.1	282.8
3018.3	17.5°	3188.5	3326.4	3025.2	2112.6	1188.5	551.7	294.2	255.2	250.6	252.9
3112.6	20°	3365.5	3448.2	2882.7	1717.2	710.3	282.8	236.8	227.6	223.0	229.9
3177.0	22.5°	3432.1	3508.0	2650.5	1243.7	319.5	188.5	177.0	170.1	174.7	172.4
3216.0	25°	3427.5	3466.6	2268.9	712.6	94.3	73.6	66.7	66.7	62.1	64.4
3151.7	27.5°	3462.0	3365.5	1841.4	211.5	0.0	0.0	0.0	0.0	0.0	0.0
3165.5	30°	3480.4	3202.3	1310.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3245.9	32.5°	3489.6	3117.2	843.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3360.9	35°	3560.9	2947.1	360.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3547.1	37.5°	3609.1	2728.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3896.5	40°	3809.1	2659.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4420.6	42.5°	4068.9	2531.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5199.9	45°	4429.8	2340.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6091.9	47.5°	4908.0	2227.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6926.3	50°	5264.3	2050.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7866.6	52.5°	5717.2	1944.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8965.4	55°	6255.1	1949.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9896.4	57.5°	6744.7	1917.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10625.1	60°	6995.3	1639.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11149.3	62.5°	6942.4	1326.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11307.9	65°	6758.5	1041.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11064.2	66°	6632.1	921.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10737.8	67.5°	6248.2	737.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8395.3	70°	4972.3	505.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5296.5	72.5°	3163.2	310.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2319.5	75°	1457.5	142.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
673.6	77.5°	457.5	87.4	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.9	80°	119.5	55.2	18.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
69.0	82.5°	62.1	39.1	16.1	6.9	4.6	0.0	0.0	0.0	0.0	0.0
32.2	85°	39.1	16.1	6.9	4.6	4.6	0.0	0.0	0.0	0.0	0.0
23.0	87.5°	34.5	9.2	4.6	4.6	2.3	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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