

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: P575255

Luminaire Tested: **EPH-VN-03-740-U-T3R-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575255  
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-T3R-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

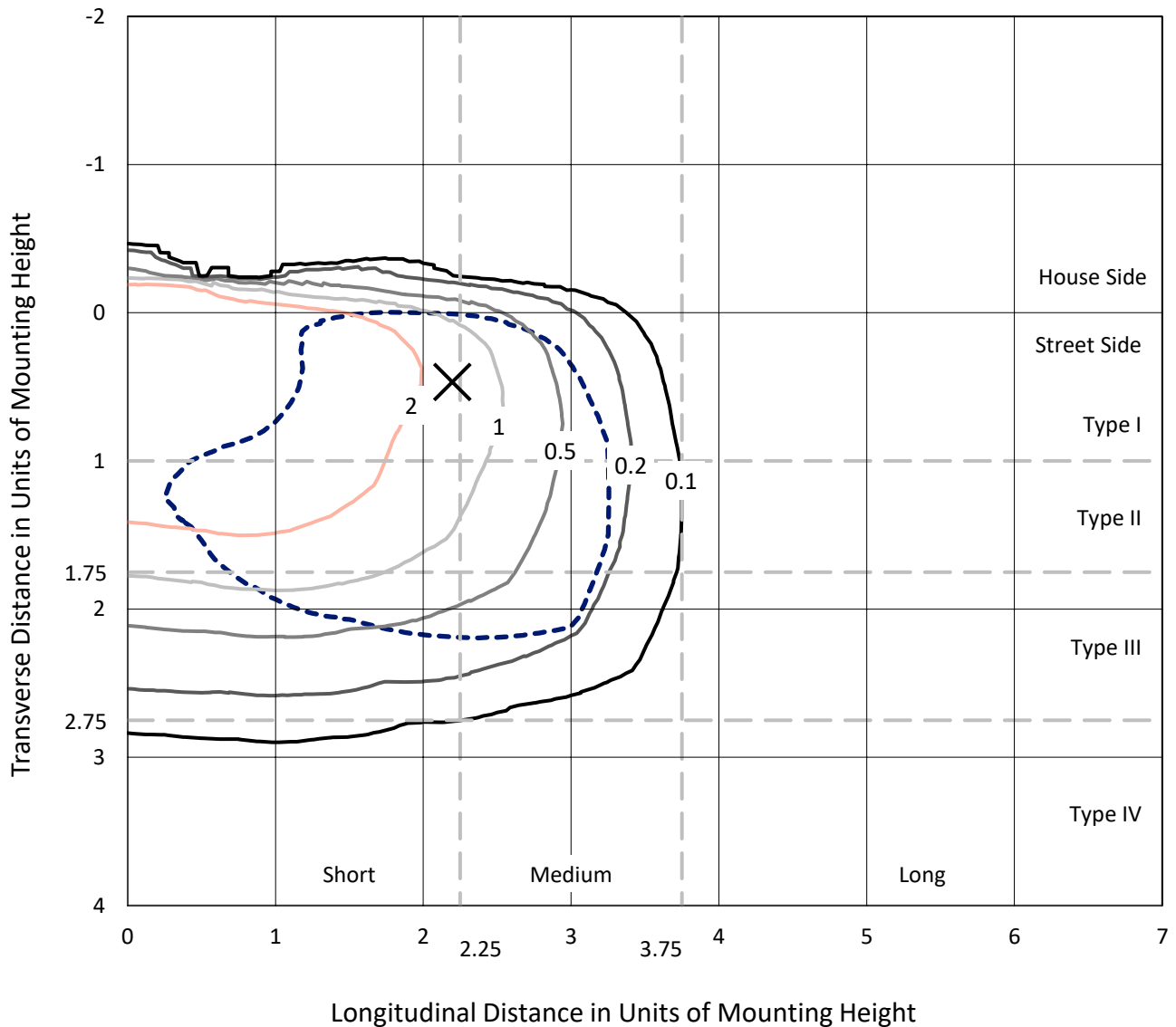
Lumens per Lamp: N/A  
Luminaire Lumens: 16707.4 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

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

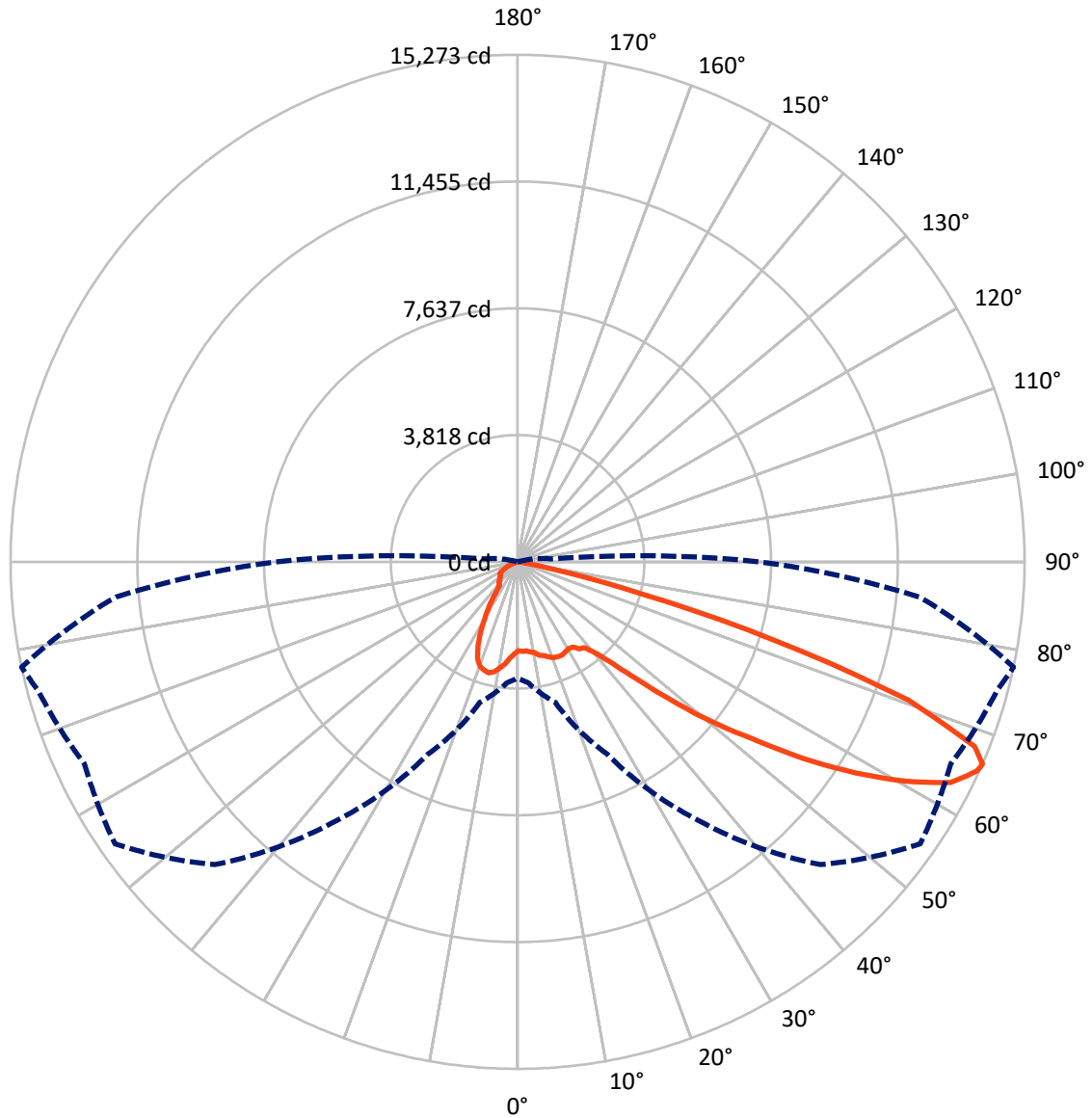
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P575255  
CATALOG NUMBER: EPH-VN-03-740-U-T3R-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: EPH-VN-03-740-U-T3R-HSS

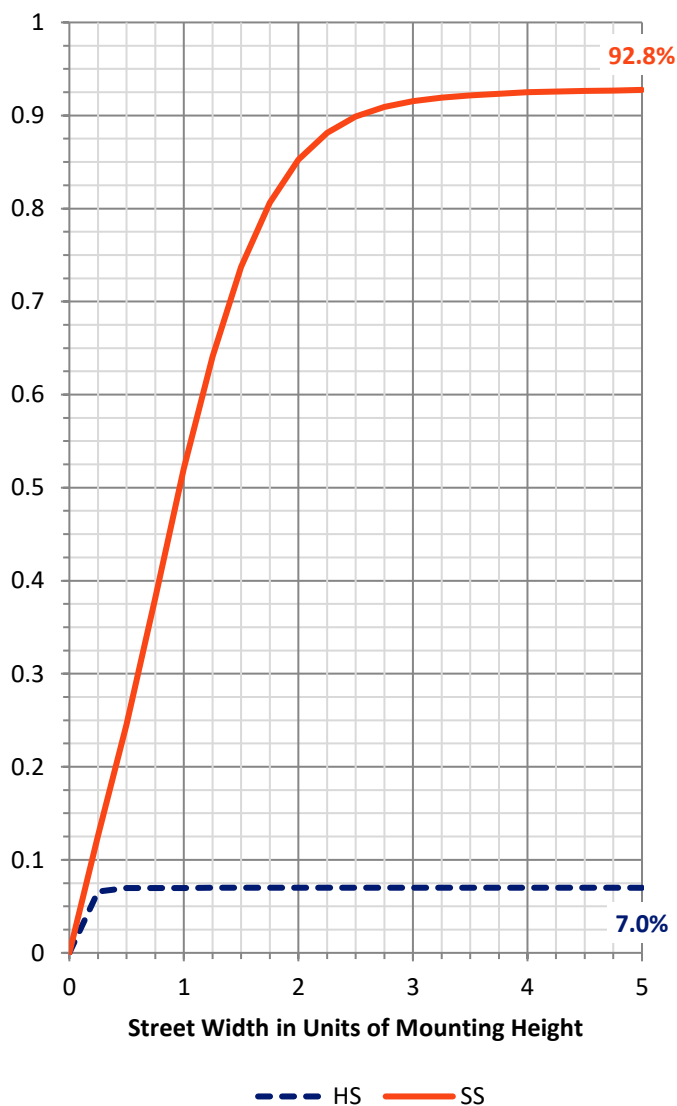
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1174.6	0.0	1174.6
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	15532.8	0.0	15532.8
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	16707.4	0.0	16707.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.8	1.5
10°-20°	552.6	3.3
20°-30°	789.9	4.7
30°-40°	1352.1	8.1
40°-50°	2440.3	14.6
50°-60°	4173.3	25.0
60°-70°	5136.6	30.7
70°-80°	1941.9	11.6
80°-90°	75.9	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°	16707.4	100.0
0°-180°	16707.4	100.0

**Coefficient of Utilization**



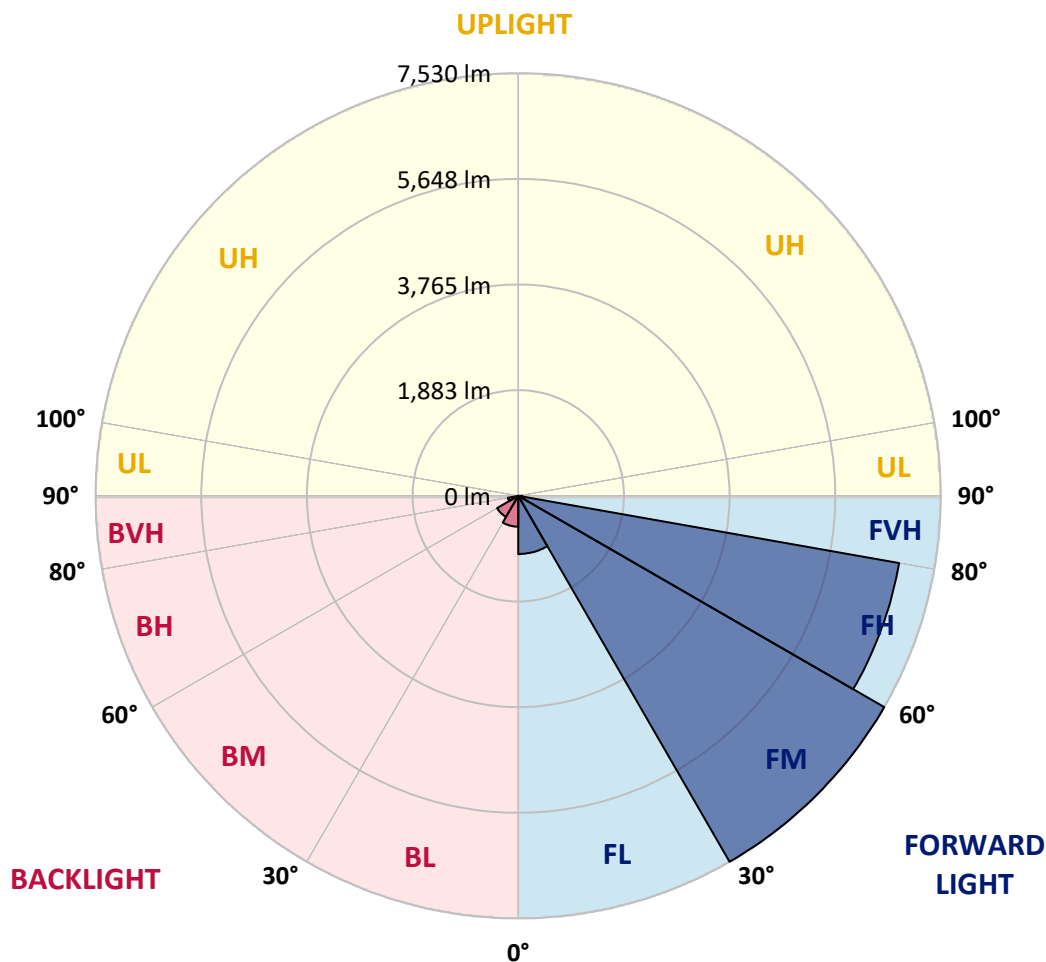
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 CATALOG NUMBER: EPH-VN-03-740-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.2	6.2			
FM (30°-60°)	7530.4	45.1			
FH (60°-80°)	6892.4	41.3			G3/7500
FVH (80°-90°)	72.8	0.4			G1/100
BL (0°-30°)	550.1	3.3	B2/1000		
BM (30°-60°)	435.3	2.6	B1/1000		
BH (60°-80°)	186.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	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°	65°	75°	78°
0°	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0
2.5°	2461.4	2438.7	2461.4	2494.2	2511.9	2527.0	2580.0	2625.5	2673.5	2706.3
5°	2282.2	2325.1	2330.1	2340.2	2368.0	2458.9	2489.2	2567.4	2686.1	2696.2
7.5°	2140.8	2128.2	2161.0	2226.6	2297.3	2350.3	2438.7	2575.0	2698.7	2741.6
10°	1936.3	1961.5	1996.9	2062.5	2148.4	2279.6	2436.2	2587.6	2764.3	2779.5
12.5°	1825.2	1800.0	1855.5	1923.7	2070.1	2191.3	2383.1	2564.9	2804.7	2888.0
15°	1734.3	1747.0	1800.0	1845.4	1966.6	2120.6	2345.3	2620.4	2872.9	2931.0
17.5°	1696.5	1688.9	1729.3	1774.7	1923.7	2097.9	2330.1	2623.0	2933.5	3009.2
20°	1714.1	1729.3	1716.7	1759.6	1853.0	2029.7	2352.8	2670.9	2978.9	3082.4
22.5°	1991.8	1971.6	1870.7	1789.9	1794.9	2001.9	2335.2	2701.2	3019.3	3102.6
25°	2716.4	2607.8	2357.9	2047.4	1842.9	1926.2	2315.0	2691.1	3011.7	3115.2
27.5°	3446.0	3352.5	3107.7	2625.5	2037.3	1895.9	2244.3	2698.7	2973.9	3069.8
30°	4215.9	4266.4	3902.9	3329.8	2547.2	2062.5	2198.8	2658.3	2948.6	3029.4
32.5°	5006.1	4985.9	4766.3	4145.2	3276.8	2431.1	2272.1	2698.7	2981.4	3059.7
35°	5624.6	5553.9	5331.8	4771.3	3880.2	2986.5	2524.5	2890.6	3125.3	3218.8
37.5°	5930.1	5960.4	5831.6	5344.4	4541.6	3501.5	2840.1	2890.6	3170.8	3279.3
40°	6167.4	6258.3	6210.3	6053.8	5198.0	4082.1	3188.5	3069.8	3400.5	3605.0
42.5°	6452.6	6409.7	6692.5	6548.6	6056.3	4814.2	3799.4	3496.4	3943.3	4140.2
45°	6604.1	6768.2	6982.8	7167.1	6851.5	5728.1	4597.1	4251.3	4773.8	5023.8
47.5°	6992.9	7058.5	7406.9	7639.2	7497.8	6773.3	5808.9	5354.5	5819.0	6212.8
50°	7220.1	7131.7	7619.0	7972.4	8053.2	7639.2	6894.4	6541.0	7061.1	7563.4
52.5°	7020.7	7273.1	7760.3	8394.0	8618.7	8411.7	8169.3	8015.3	8381.4	8845.9
55°	6321.4	6493.0	7679.6	8856.0	9580.5	9484.6	9709.3	9608.3	9976.9	10469.1
57.5°	5758.4	5973.0	7015.6	9095.8	10476.7	10759.5	11042.2	10979.1	11423.4	11991.4
60°	5407.5	5531.2	6536.0	9035.2	11006.9	12077.3	12716.0	12271.6	12996.2	13430.4
62.5°	4799.1	4877.4	5836.7	8232.4	11165.9	13008.8	14091.8	13488.5	14117.1	14647.2
65°	3847.4	4059.4	4852.1	7030.8	10115.7	13180.5	14950.2	14240.8	14849.2	15197.6
66°	3501.5	3655.5	4382.5	6394.6	9517.4	12895.2	14806.3	14397.3	14955.2	15273.3
67.5°	2905.7	3039.5	3617.6	5488.3	8293.0	12266.6	14907.2	14291.3	15036.0	14841.6
70°	1923.7	2009.5	2474.0	3711.0	5776.1	10034.9	13826.7	13463.2	13218.3	12488.8
72.5°	898.7	1022.4	1545.0	2249.3	3387.9	7020.7	11274.5	10787.2	9270.0	8103.7
75°	406.4	462.0	848.2	1290.0	1519.8	3637.8	7273.1	6568.8	4614.8	3832.2
77.5°	219.6	249.9	414.0	613.5	552.9	1274.9	3600.0	2994.1	1454.1	1065.3
80°	169.1	199.4	345.9	350.9	204.5	330.7	1338.0	926.5	363.5	275.2
82.5°	88.4	126.2	272.6	227.2	103.5	133.8	414.0	257.5	113.6	90.9
85°	35.3	55.5	154.0	151.5	60.6	45.4	116.1	78.3	45.4	37.9
87.5°	2.5	2.5	83.3	58.1	37.9	12.6	17.7	17.7	22.7	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575255

CATALOG NUMBER: EPH-VN-03-740-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2676.0	0°	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0	2676.0
2696.2	2.5°	2741.6	2771.9	2777.0	2860.3	2877.9	2860.3	2905.7	2898.1	2918.3	2903.2
2741.6	5°	2804.7	2847.6	2931.0	2994.1	2994.1	2943.6	2903.2	2850.2	2771.9	2751.7
2830.0	7.5°	2913.3	3049.6	3125.3	3085.0	3004.2	2814.8	2552.3	2360.4	2198.8	2138.3
2943.6	10°	3105.1	3180.9	3269.2	3105.1	2769.4	2368.0	1926.2	1635.9	1408.7	1358.2
3077.4	12.5°	3228.8	3350.0	3400.5	2994.1	2335.2	1736.9	1257.2	929.0	770.0	648.8
3218.8	15°	3390.4	3529.3	3425.8	2693.7	1840.4	1138.6	651.3	406.4	330.7	310.5
3314.7	17.5°	3501.5	3653.0	3322.3	2320.0	1305.2	605.9	323.1	280.2	275.2	277.7
3418.2	20°	3695.9	3786.8	3165.7	1885.8	780.1	310.5	260.0	249.9	244.9	252.5
3488.9	22.5°	3769.1	3852.4	2910.8	1365.8	350.9	207.0	194.4	186.8	191.9	189.3
3531.8	25°	3764.0	3807.0	2491.7	782.6	103.5	80.8	73.2	73.2	68.2	70.7
3461.1	27.5°	3801.9	3695.9	2022.1	232.3	0.0	0.0	0.0	0.0	0.0	0.0
3476.3	30°	3822.1	3516.6	1439.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3564.6	32.5°	3832.2	3423.2	926.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3690.8	35°	3910.5	3236.4	396.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3895.3	37.5°	3963.5	2996.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4279.0	40°	4183.1	2920.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4854.6	42.5°	4468.4	2779.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5710.4	45°	4864.7	2570.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6690.0	47.5°	5389.8	2446.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7606.3	50°	5781.1	2251.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8638.9	52.5°	6278.5	2135.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9845.6	55°	6869.2	2140.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10868.0	57.5°	7406.9	2105.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11668.3	60°	7682.1	1800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12243.9	62.5°	7624.0	1456.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12418.1	65°	7422.1	1143.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12150.5	66°	7283.2	1012.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11792.0	67.5°	6861.6	810.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9219.5	70°	5460.5	555.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5816.5	72.5°	3473.7	340.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2547.2	75°	1600.5	156.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
739.7	77.5°	502.4	95.9	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176.7	80°	131.3	60.6	20.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75.7	82.5°	68.2	42.9	17.7	7.6	5.0	0.0	0.0	0.0	0.0	0.0
35.3	85°	42.9	17.7	7.6	5.0	5.0	0.0	0.0	0.0	0.0	0.0
25.2	87.5°	37.9	10.1	5.0	5.0	2.5	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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