

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: P575244

Luminaire Tested: **EPH-VN-04-730-U-T3R-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575244  
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-T3R-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

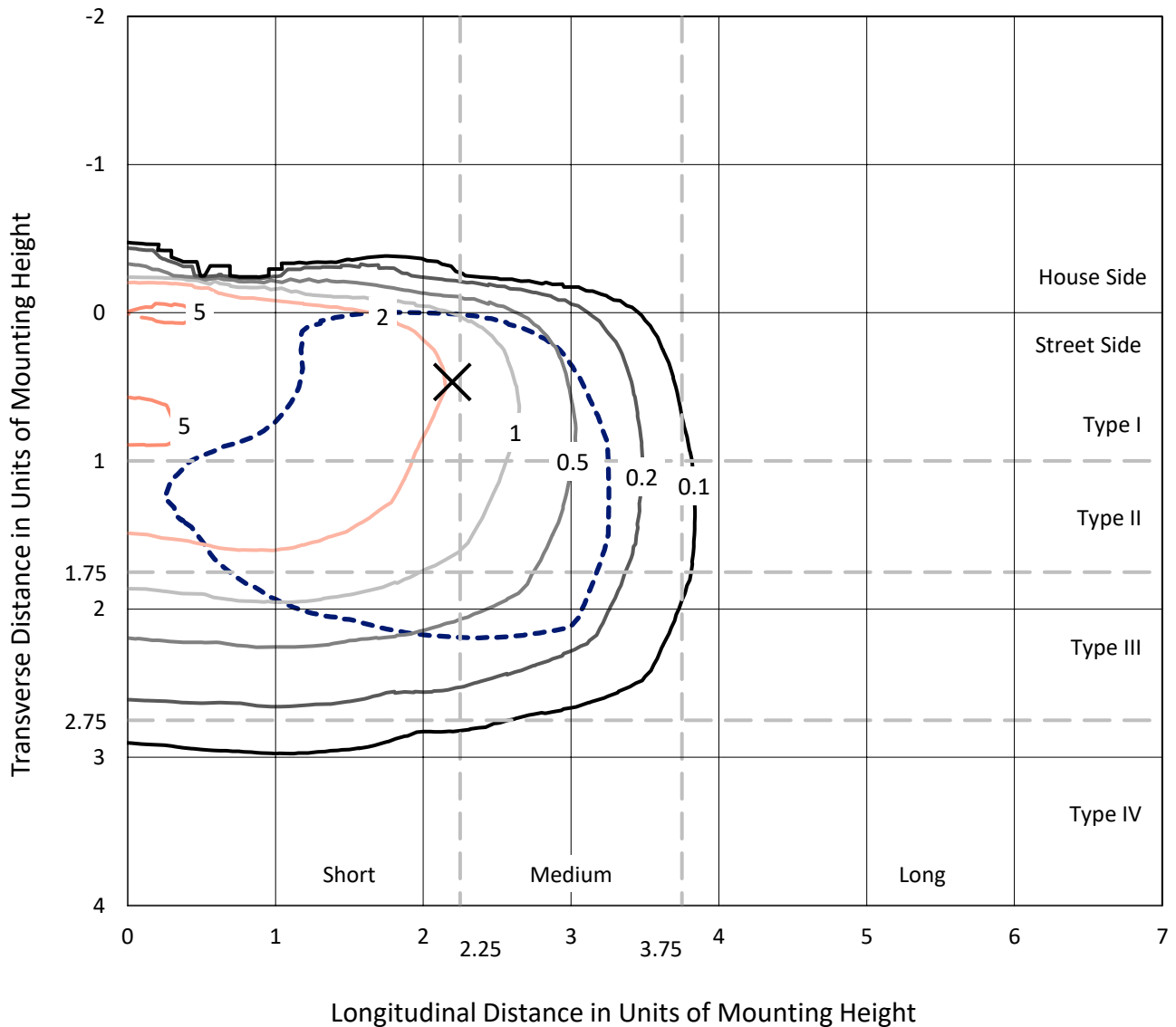
Lumens per Lamp: N/A  
Luminaire Lumens: 19726.7 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

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

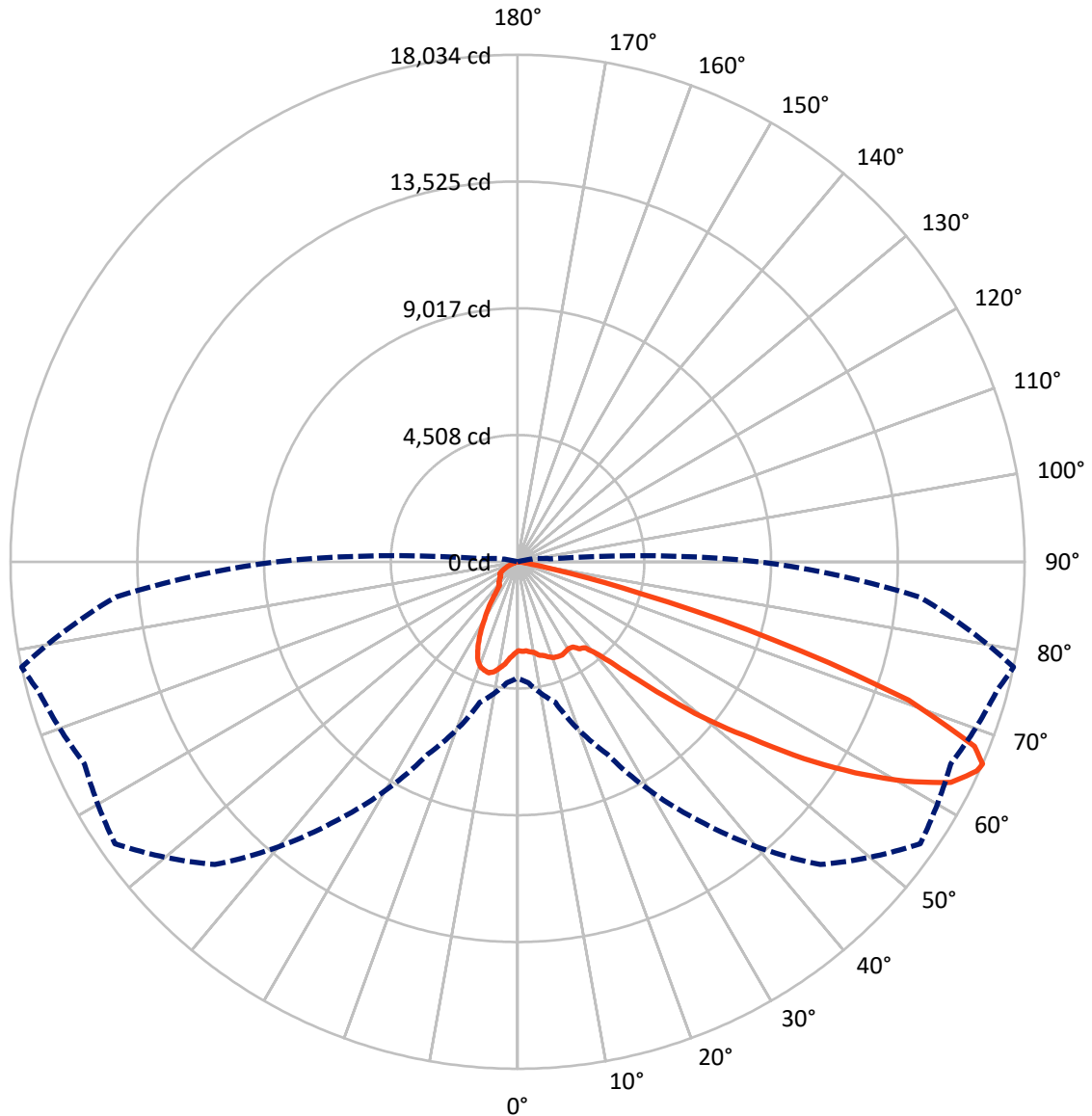
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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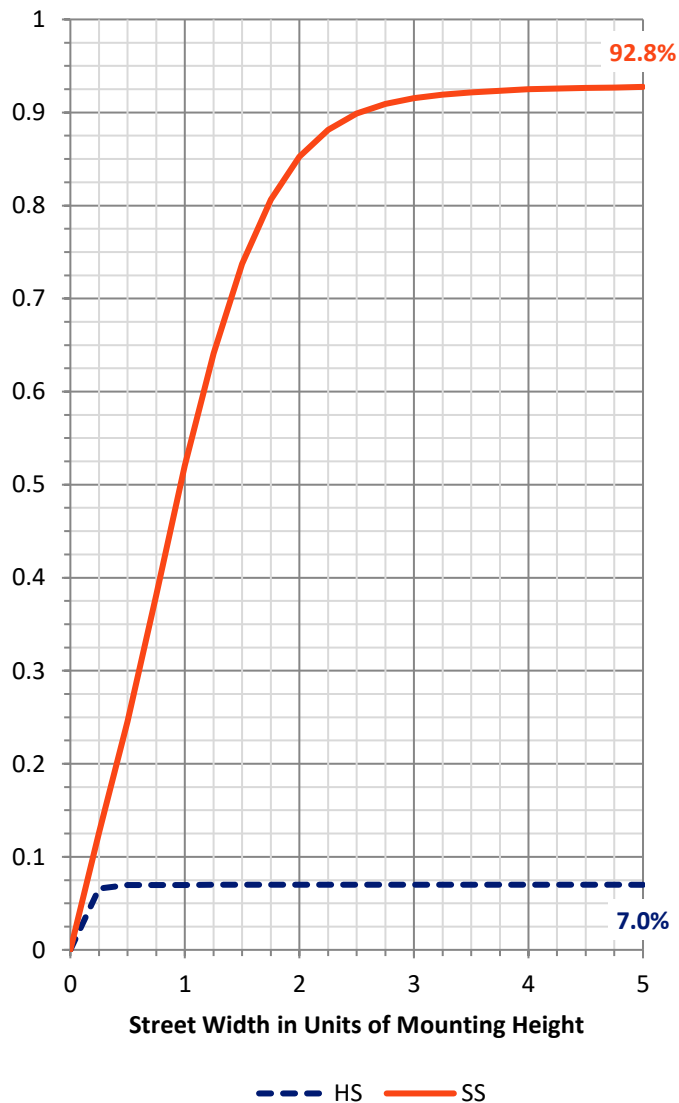
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1386.9	0.0	1386.9
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	18339.8	0.0	18339.8
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	19726.7	0.0	19726.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.1	1.5
10°-20°	652.5	3.3
20°-30°	932.6	4.7
30°-40°	1596.4	8.1
40°-50°	2881.3	14.6
50°-60°	4927.5	25.0
60°-70°	6064.9	30.7
70°-80°	2292.9	11.6
80°-90°	89.6	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°	19726.7	100.0
0°-180°	19726.7	100.0

**Coefficient of Utilization**



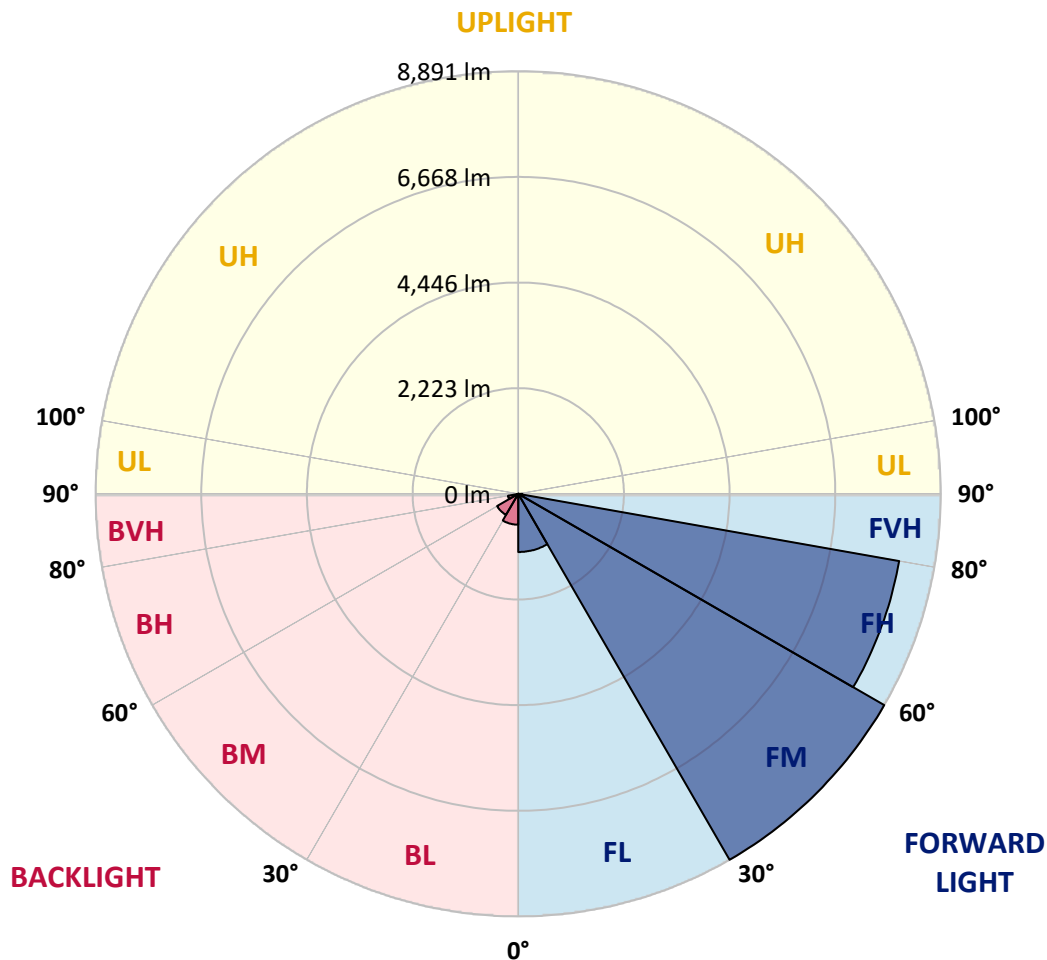
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1224.6	6.2			
FM	(30°-60°)	8891.2	45.1			
FH	(60°-80°)	8138.0	41.3			G4/12000
FVH	(80°-90°)	86.0	0.4			G1/100
BL	(0°-30°)	649.5	3.3	B2/1000		
BM	(30°-60°)	514.0	2.6	B1/1000		
BH	(60°-80°)	219.7	1.1	B1/500		G1/500
BVH	(80°-90°)	3.6	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6
2.5°	2906.2	2879.4	2906.2	2945.0	2965.8	2983.7	3046.3	3100.0	3156.6	3195.3
5°	2694.6	2745.3	2751.2	2763.1	2795.9	2903.2	2939.0	3031.4	3171.5	3183.4
7.5°	2527.7	2512.8	2551.5	2629.0	2712.5	2775.1	2879.4	3040.4	3186.4	3237.1
10°	2286.2	2316.0	2357.8	2435.3	2536.6	2691.6	2876.4	3055.3	3263.9	3281.8
12.5°	2155.1	2125.3	2190.8	2271.3	2444.2	2587.3	2813.8	3028.4	3311.6	3410.0
15°	2047.8	2062.7	2125.3	2178.9	2322.0	2503.8	2769.1	3094.0	3392.1	3460.6
17.5°	2003.1	1994.1	2041.8	2095.5	2271.3	2477.0	2751.2	3097.0	3463.6	3553.0
20°	2023.9	2041.8	2026.9	2077.6	2187.9	2396.5	2778.0	3153.6	3517.3	3639.5
22.5°	2351.8	2328.0	2208.7	2113.3	2119.3	2363.7	2757.2	3189.4	3565.0	3663.3
25°	3207.3	3079.1	2784.0	2417.4	2175.9	2274.3	2733.3	3177.5	3556.0	3678.2
27.5°	4068.7	3958.4	3669.3	3100.0	2405.5	2238.5	2649.9	3186.4	3511.3	3624.6
30°	4977.8	5037.4	4608.2	3931.6	3007.6	2435.3	2596.2	3138.7	3481.5	3576.9
32.5°	5910.8	5887.0	5627.6	4894.4	3869.0	2870.4	2682.7	3186.4	3520.2	3612.7
35°	6641.1	6557.6	6295.3	5633.6	4581.4	3526.2	2980.7	3412.9	3690.2	3800.4
37.5°	7001.7	7037.5	6885.5	6310.2	5362.3	4134.3	3353.3	3412.9	3743.8	3872.0
40°	7281.9	7389.2	7332.6	7147.8	6137.3	4819.9	3764.7	3624.6	4015.1	4256.5
42.5°	7618.8	7568.1	7901.9	7732.0	7150.8	5684.3	4486.0	4128.3	4655.9	4888.4
45°	7797.6	7991.4	8244.7	8462.3	8089.7	6763.3	5427.9	5019.6	5636.6	5931.7
47.5°	8256.6	8334.1	8745.5	9019.7	8852.8	7997.3	6858.7	6322.1	6870.6	7335.6
50°	8524.9	8420.6	8995.9	9413.2	9508.5	9019.7	8140.4	7723.1	8337.1	8930.3
52.5°	8289.4	8587.5	9162.8	9910.9	10176.2	9931.8	9645.7	9463.8	9896.0	10444.5
55°	7463.8	7666.5	9067.4	10456.4	11311.9	11198.6	11463.9	11344.7	11779.9	12361.1
57.5°	6799.1	7052.4	8283.5	10739.6	12370.1	12703.9	13037.7	12963.2	13487.8	14158.5
60°	6384.7	6530.8	7717.1	10668.1	12996.0	14259.8	15014.0	14489.4	15344.8	15857.5
62.5°	5666.4	5758.8	6891.5	9720.2	13183.8	15359.7	16638.5	15926.1	16668.3	17294.2
65°	4542.6	4793.0	5729.0	8301.4	11943.8	15562.4	17651.9	16814.3	17532.7	17944.0
66°	4134.3	4316.1	5174.6	7550.2	11237.4	15225.6	17482.0	16999.1	17657.9	18033.5
67.5°	3430.8	3588.8	4271.4	6480.1	9791.7	14483.4	17601.2	16873.9	17753.3	17523.7
70°	2271.3	2372.7	2921.1	4381.7	6819.9	11848.4	16325.5	15896.3	15607.1	14745.7
72.5°	1061.1	1207.2	1824.2	2655.8	4000.1	8289.4	13312.0	12736.7	10945.3	9568.2
75°	479.9	545.5	1001.5	1523.2	1794.4	4295.2	8587.5	7755.9	5448.8	4524.8
77.5°	259.3	295.1	488.8	724.3	652.8	1505.3	4250.5	3535.2	1716.9	1257.9
80°	199.7	235.5	408.4	414.3	241.4	390.5	1579.8	1093.9	429.2	324.9
82.5°	104.3	149.0	321.9	268.3	122.2	158.0	488.8	304.0	134.1	107.3
85°	41.7	65.6	181.8	178.8	71.5	53.7	137.1	92.4	53.7	44.7
87.5°	3.0	3.0	98.4	68.6	44.7	14.9	20.9	20.9	26.8	23.8
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°
3159.6	0°	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6	3159.6
3183.4	2.5°	3237.1	3272.8	3278.8	3377.2	3398.0	3377.2	3430.8	3421.9	3445.7	3427.8
3237.1	5°	3311.6	3362.3	3460.6	3535.2	3535.2	3475.5	3427.8	3365.3	3272.8	3249.0
3341.4	7.5°	3439.8	3600.7	3690.2	3642.5	3547.1	3323.5	3013.5	2787.0	2596.2	2524.7
3475.5	10°	3666.3	3755.7	3860.1	3666.3	3269.9	2795.9	2274.3	1931.5	1663.3	1603.6
3633.5	12.5°	3812.4	3955.4	4015.1	3535.2	2757.2	2050.7	1484.4	1096.9	909.1	766.0
3800.4	15°	4003.1	4167.1	4044.9	3180.4	2173.0	1344.3	769.0	479.9	390.5	366.6
3913.7	17.5°	4134.3	4313.1	3922.6	2739.3	1541.0	715.4	381.5	330.9	324.9	327.9
4035.9	20°	4363.8	4471.1	3737.8	2226.6	921.0	366.6	307.0	295.1	289.1	298.1
4119.4	22.5°	4450.2	4548.6	3436.8	1612.6	414.3	244.4	229.5	220.6	226.5	223.6
4170.1	25°	4444.3	4495.0	2942.0	924.0	122.2	95.4	86.4	86.4	80.5	83.5
4086.6	27.5°	4489.0	4363.8	2387.6	274.2	0.0	0.0	0.0	0.0	0.0	0.0
4104.5	30°	4512.8	4152.2	1699.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4208.8	32.5°	4524.8	4041.9	1093.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4357.8	35°	4617.2	3821.3	468.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4599.3	37.5°	4679.8	3538.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5052.3	40°	4939.1	3448.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5732.0	42.5°	5275.9	3281.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6742.4	45°	5743.9	3034.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7899.0	47.5°	6363.9	2888.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8981.0	50°	6825.9	2658.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10200.1	52.5°	7413.1	2521.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11624.9	55°	8110.6	2527.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12832.1	57.5°	8745.5	2485.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13777.0	60°	9070.4	2125.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14456.6	62.5°	9001.8	1719.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14662.2	65°	8763.4	1350.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14346.3	66°	8599.4	1195.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13923.0	67.5°	8101.6	956.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10885.6	70°	6447.3	655.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6867.6	72.5°	4101.5	402.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3007.6	75°	1889.8	184.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
873.4	77.5°	593.2	113.3	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208.7	80°	155.0	71.5	23.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0
89.4	82.5°	80.5	50.7	20.9	8.9	6.0	0.0	0.0	0.0	0.0	0.0
41.7	85°	50.7	20.9	8.9	6.0	6.0	0.0	0.0	0.0	0.0	0.0
29.8	87.5°	44.7	11.9	6.0	6.0	3.0	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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