

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: P575173

Luminaire Tested: **EPH-VN-07-735-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575173
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

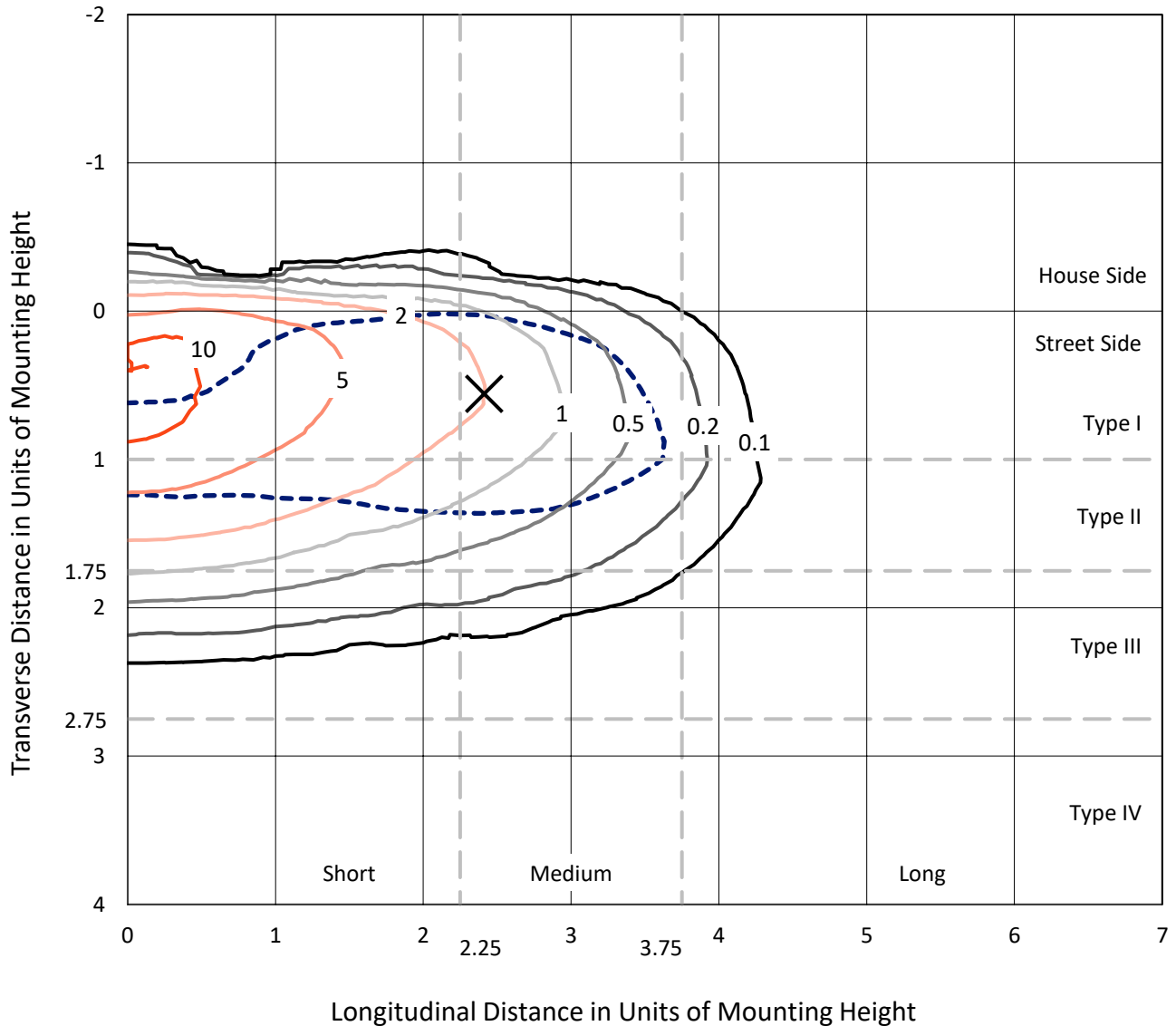
Lumens per Lamp: N/A
Luminaire Lumens: 37825.6 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.5
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

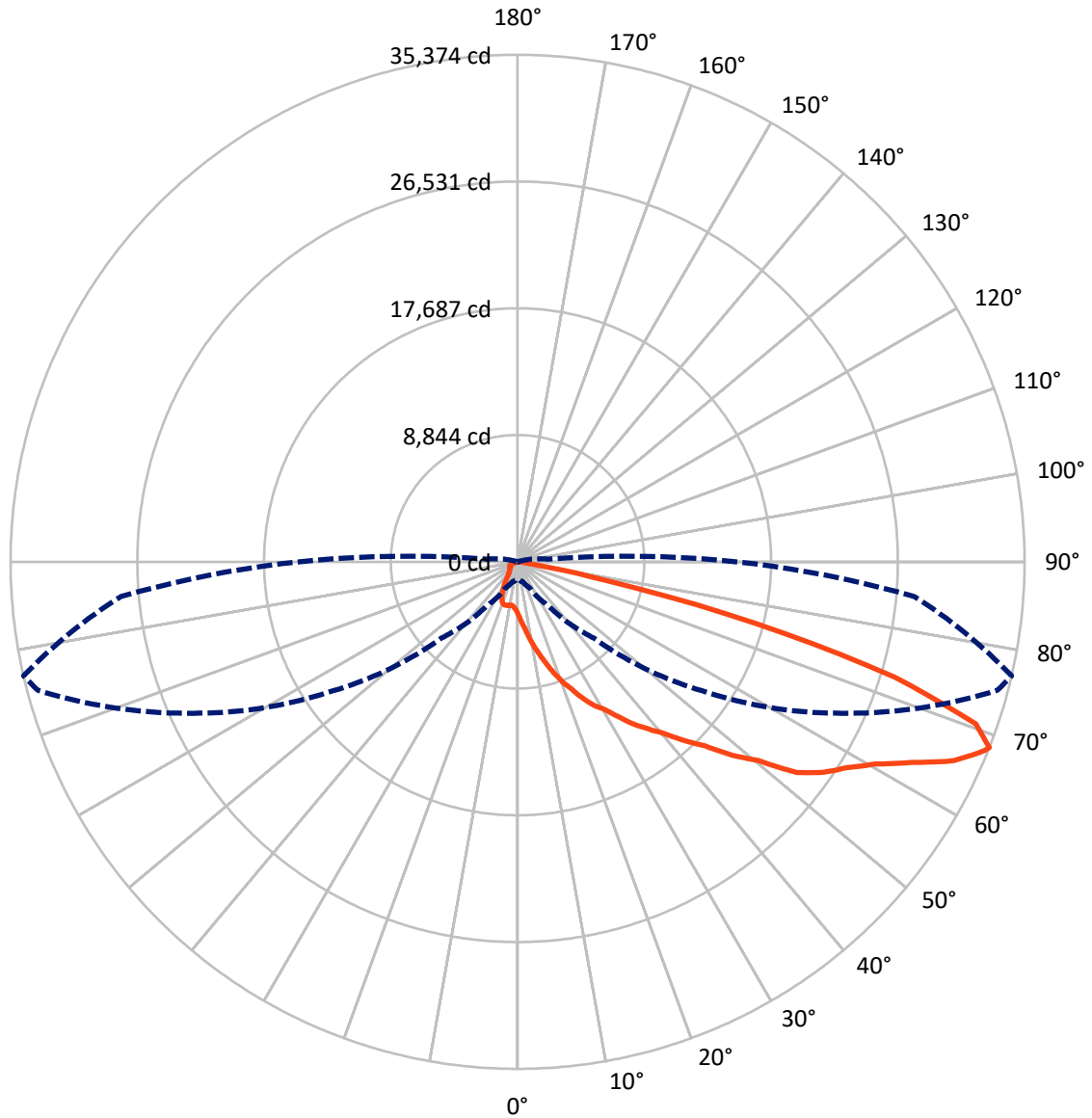
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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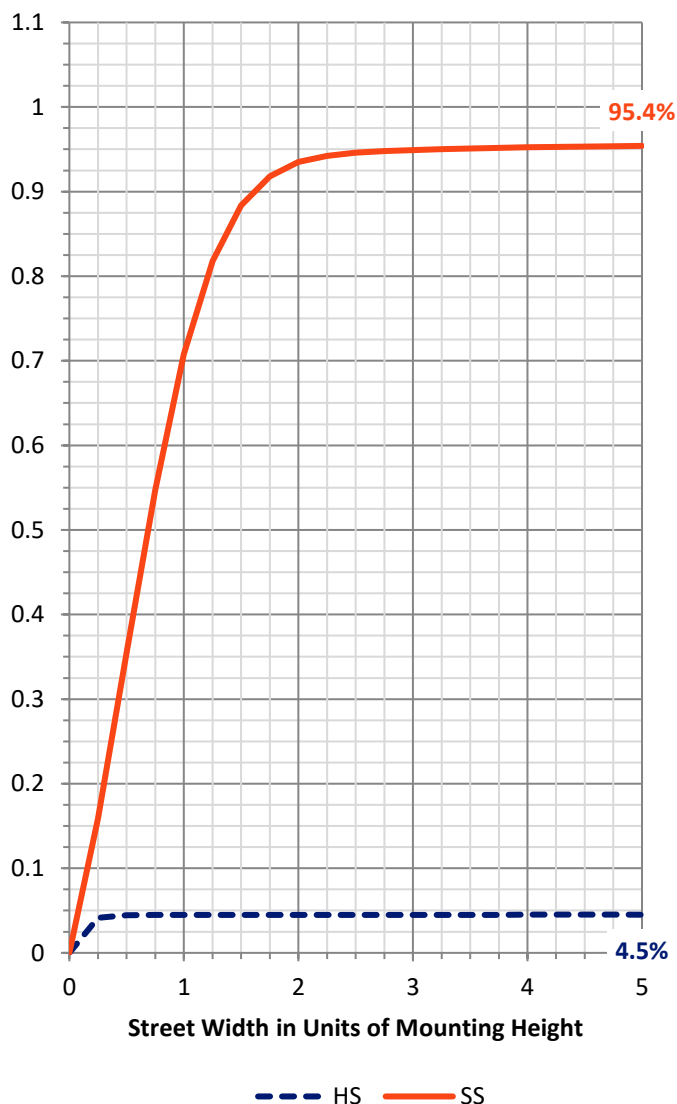
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1715.3	0.0	1715.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	36110.2	0.0	36110.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	37825.6	0.0	37825.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.1
10°-20°	1560.5	4.1
20°-30°	3024.3	8.0
30°-40°	5272.5	13.9
40°-50°	7722.0	20.4
50°-60°	9072.2	24.0
60°-70°	7660.7	20.3
70°-80°	2969.5	7.9
80°-90°	120.7	0.3
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°	37825.6	100.0
0°-180°	37825.6	100.0

Coefficient of Utilization



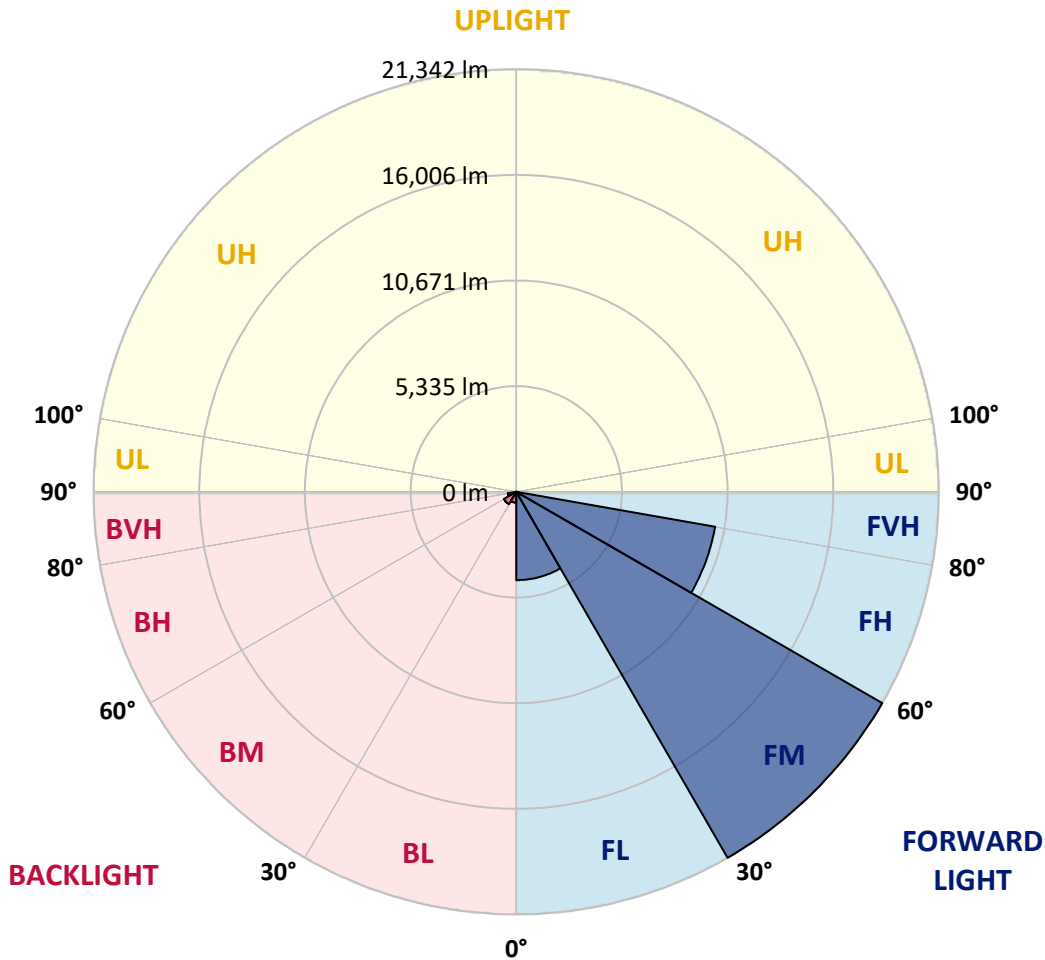
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4460.0	11.8			
FM (30°-60°)	21341.9	56.4			
FH (60°-80°)	10197.0	27.0			G4/12000
FVH (80°-90°)	111.4	0.3			G2/225
BL (0°-30°)	548.1	1.4	B2/1000		
BM (30°-60°)	724.8	1.9	B1/1000		
BH (60°-80°)	433.1	1.1	B1/500		G1/500
BVH (80°-90°)	9.3	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9
2.5°	5503.1	5398.9	5289.5	5258.2	5055.0	4825.7	4612.0	4403.5	4054.4	4059.6
5°	7092.6	6962.3	6873.7	6852.9	6535.0	6138.9	5815.8	5226.9	4648.5	4518.2
7.5°	8400.6	8358.9	8228.6	8119.2	7884.7	7400.0	7019.6	6175.4	5294.7	5148.8
10°	9192.7	9255.3	9312.6	9171.9	8989.5	8640.3	8119.2	7207.2	6029.5	5847.1
12.5°	10037.0	9932.7	9969.2	10083.9	9844.1	9766.0	9119.8	8270.3	6889.3	6540.2
15°	10255.8	10297.5	10386.1	10719.6	10881.2	10657.1	10099.5	9130.2	7780.5	7295.8
17.5°	10401.8	10380.9	10490.3	10990.6	11235.6	11449.2	11100.1	10089.1	8557.0	8124.4
20°	10584.2	10469.5	10709.2	11027.1	11595.1	12043.3	12027.7	11053.2	9369.9	8911.3
22.5°	11261.6	11173.0	11365.8	11397.1	11793.2	12418.5	12569.7	11840.1	10203.7	9640.9
25°	12512.3	12673.9	12444.6	12246.6	12366.4	12778.1	12887.5	12538.4	11042.7	10526.8
27.5°	14341.5	14320.7	13867.3	13611.9	13325.3	13273.2	13351.4	13189.8	11704.6	11334.6
30°	16306.2	16134.2	15717.3	15102.3	14471.8	14080.9	13971.5	13804.7	12481.1	11944.3
32.5°	17869.5	17963.4	17499.5	16697.0	15649.5	15123.2	14596.9	14414.5	13335.7	12861.5
35°	19307.9	19182.8	18812.8	18135.3	17197.3	16347.8	15524.5	15133.6	14362.3	13893.3
37.5°	20371.0	20527.3	19823.8	19177.6	18244.8	17541.2	16733.5	15878.8	15420.2	14794.9
40°	21376.8	21131.8	20657.6	20063.5	19198.4	18661.7	18130.1	16796.0	16545.9	15738.1
42.5°	21199.6	21215.2	20954.6	20475.2	19849.8	19542.4	19360.0	17911.2	17567.3	17051.4
45°	20475.2	20537.7	20626.3	20391.8	20443.9	20136.5	20626.3	19193.2	18854.5	18307.3
47.5°	19677.9	19782.1	19761.2	20188.6	20673.2	20777.5	22002.1	20615.9	20470.0	20167.7
50°	18354.2	18395.9	18797.2	19573.6	20235.5	21324.6	23033.9	22168.9	22393.0	21798.9
52.5°	16092.5	16243.6	17275.5	18385.5	19719.6	21600.8	23732.3	24477.5	25045.5	24435.8
55°	13231.5	13439.9	14456.1	16535.5	18489.7	21183.9	24368.0	25696.9	26848.6	25926.2
57.5°	10646.7	10667.5	11579.5	13726.6	16743.9	20365.8	24691.1	26291.0	27838.8	27098.8
60°	8114.0	8030.6	8848.8	10709.2	13804.7	18354.2	23883.4	26593.3	29073.8	28646.5
62.5°	5221.7	5091.4	5982.6	7796.1	10782.2	15003.3	22267.9	26598.5	31002.0	30840.5
65°	2584.8	2496.2	3262.3	4778.8	7462.6	11475.3	19964.5	26499.5	33357.5	33461.8
67.5°	1365.4	1396.6	1641.6	2423.3	4304.5	8108.8	16493.8	25337.3	34561.3	35145.0
68°	1255.9	1266.3	1459.2	2016.8	3736.5	7519.9	15670.4	24998.6	34655.1	35374.3
70°	1021.4	1037.0	1104.8	1266.3	2022.0	4893.4	12090.2	22122.0	33242.9	33899.5
72.5°	813.0	859.9	901.6	969.3	1188.2	2569.2	7519.9	17239.0	27463.6	27536.5
75°	620.1	656.6	740.0	797.3	927.6	1412.3	3580.2	10511.2	18020.7	17134.8
77.5°	479.4	510.7	547.2	625.4	776.5	953.7	1094.4	4460.9	7655.4	6300.5
80°	286.6	307.5	427.3	489.9	677.5	646.2	432.5	1240.3	1553.0	1224.7
82.5°	166.8	182.4	244.9	375.2	474.2	349.2	255.4	385.6	380.4	333.5
85°	5.2	10.4	135.5	224.1	166.8	93.8	156.3	161.6	135.5	125.1
87.5°	0.0	5.2	36.5	31.3	36.5	20.8	31.3	41.7	52.1	46.9
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°
3621.9	0°	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9	3621.9
3819.9	2.5°	3658.3	3543.7	3288.3	3095.5	2887.1	2762.0	2636.9	2558.7	2517.1	2491.0
4080.4	5°	3752.1	3512.4	3100.7	2735.9	2496.2	2334.7	2173.1	2089.7	2011.6	1969.9
4398.3	7.5°	3960.6	3601.0	2918.3	2522.3	2240.9	1990.7	1787.5	1625.9	1532.1	1448.7
4810.0	10°	4215.9	3653.1	2923.5	2397.2	1990.7	1594.7	1308.0	1104.8	990.1	917.2
5331.2	12.5°	4476.5	3856.4	2944.4	2272.1	1683.2	1198.6	859.9	708.7	641.0	604.5
5815.8	15°	4872.6	4038.8	2892.3	2042.8	1276.8	781.7	588.9	536.8	510.7	479.4
6420.3	17.5°	5216.5	4330.6	2866.2	1698.9	875.5	562.8	489.9	432.5	406.5	375.2
7019.6	20°	5680.3	4513.0	2725.5	1313.2	604.5	469.0	396.1	343.9	302.3	276.2
7665.8	22.5°	6102.4	4653.7	2475.4	896.3	463.8	370.0	291.8	239.7	203.2	172.0
8312.0	25°	6561.0	4794.4	2110.6	552.4	328.3	229.3	156.3	114.6	78.2	57.3
8843.6	27.5°	6889.3	4836.1	1636.3	328.3	198.0	104.2	36.5	5.2	0.0	0.0
9369.9	30°	7222.9	4851.7	1130.9	177.2	78.2	0.0	0.0	0.0	0.0	0.0
9974.4	32.5°	7603.3	4846.5	708.7	93.8	5.2	0.0	0.0	0.0	0.0	0.0
10641.5	35°	7895.1	4757.9	338.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0
11454.4	37.5°	8338.1	4627.6	104.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12371.6	40°	8843.6	4393.1	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13268.0	42.5°	9297.0	4153.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14299.8	45°	9812.9	3856.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15727.7	47.5°	10719.6	3731.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17426.6	50°	11902.6	3632.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19057.7	52.5°	12632.2	3340.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20047.9	55°	13012.6	3038.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21256.9	57.5°	13575.4	2892.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22710.8	60°	14409.2	2902.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25144.5	62.5°	15712.1	3048.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27515.7	65°	16431.2	2902.7	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28088.9	67.5°	15821.5	2324.2	99.0	26.1	5.2	0.0	0.0	0.0	0.0	0.0
27771.0	68°	15295.2	2136.6	99.0	26.1	5.2	0.0	0.0	0.0	0.0	0.0
25139.3	70°	12642.6	1391.4	93.8	26.1	10.4	0.0	0.0	0.0	0.0	0.0
19568.4	72.5°	9208.4	771.3	78.2	20.8	10.4	0.0	0.0	0.0	0.0	0.0
11527.4	75°	5357.2	385.6	57.3	20.8	10.4	0.0	0.0	0.0	0.0	0.0
3257.1	77.5°	1396.6	192.8	46.9	26.1	15.6	5.2	0.0	0.0	0.0	0.0
594.1	80°	276.2	125.1	41.7	31.3	20.8	10.4	0.0	0.0	0.0	0.0
198.0	82.5°	130.3	88.6	41.7	31.3	26.1	15.6	5.2	0.0	0.0	0.0
88.6	85°	67.7	41.7	41.7	31.3	31.3	20.8	10.4	0.0	0.0	0.0
36.5	87.5°	31.3	15.6	15.6	15.6	15.6	10.4	5.2	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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