

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: P575187

Luminaire Tested: **EPH-VN-03-760-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575187
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-760-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

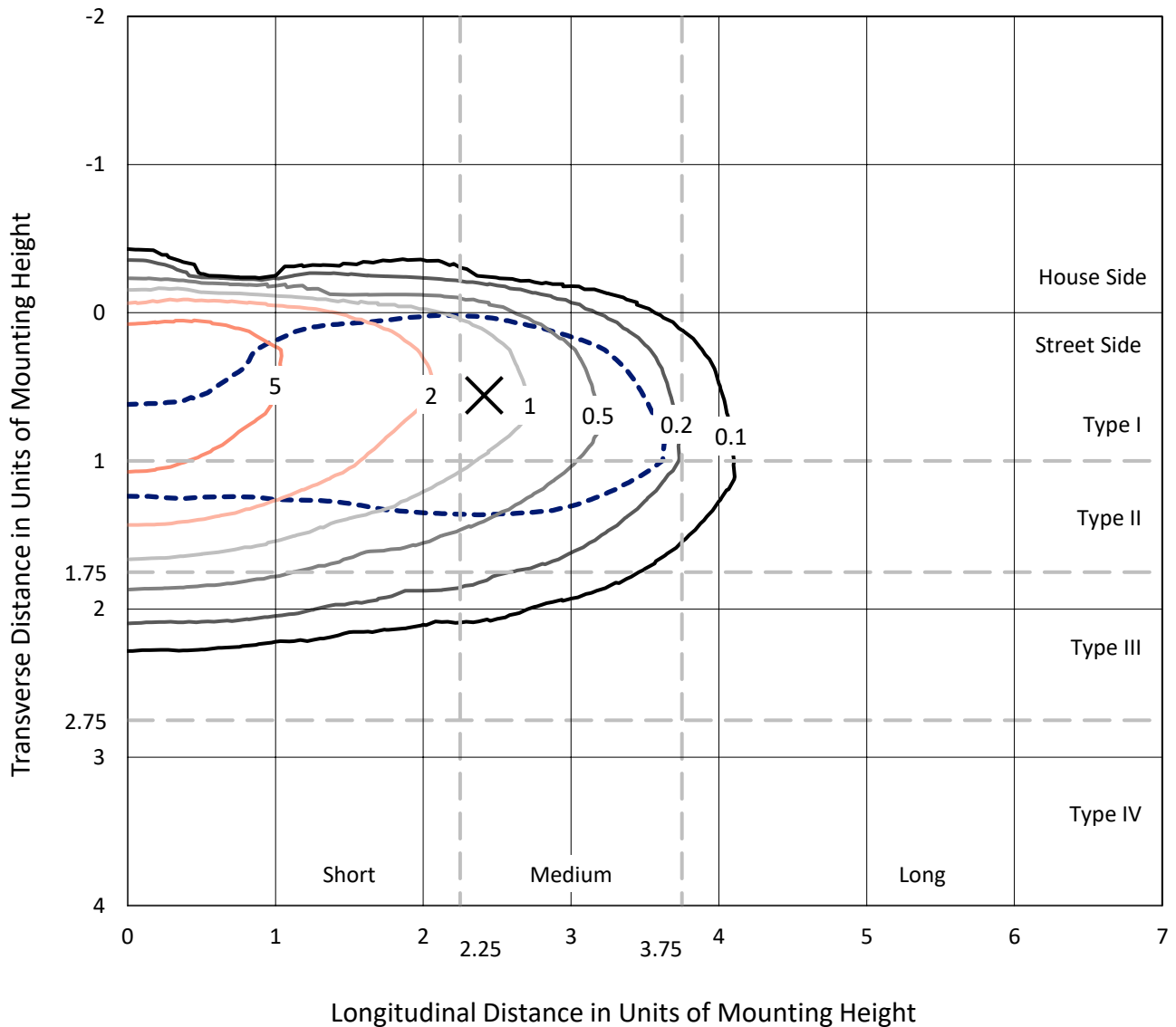
Lumens per Lamp: N/A
Luminaire Lumens: 18744.3 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

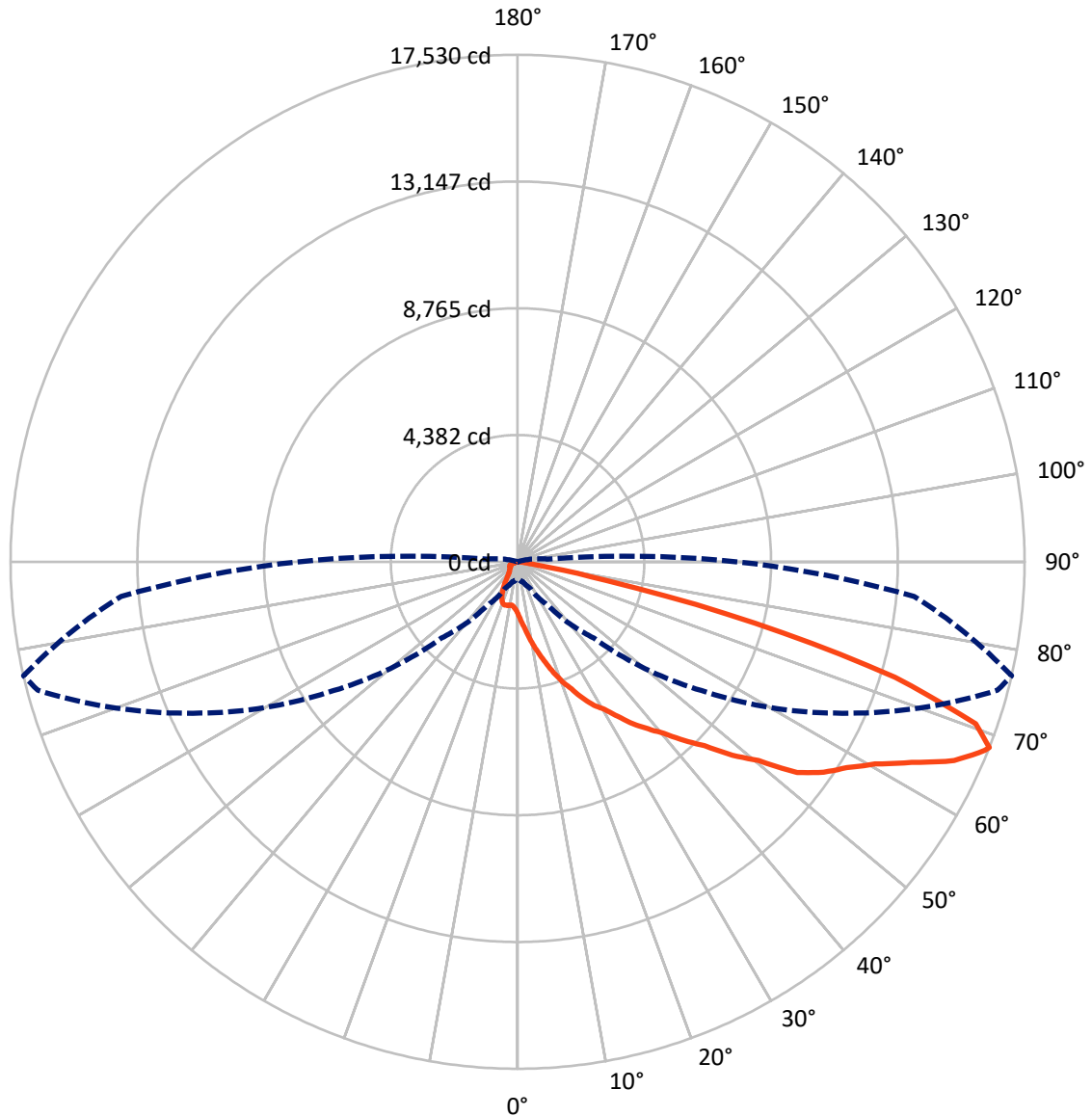
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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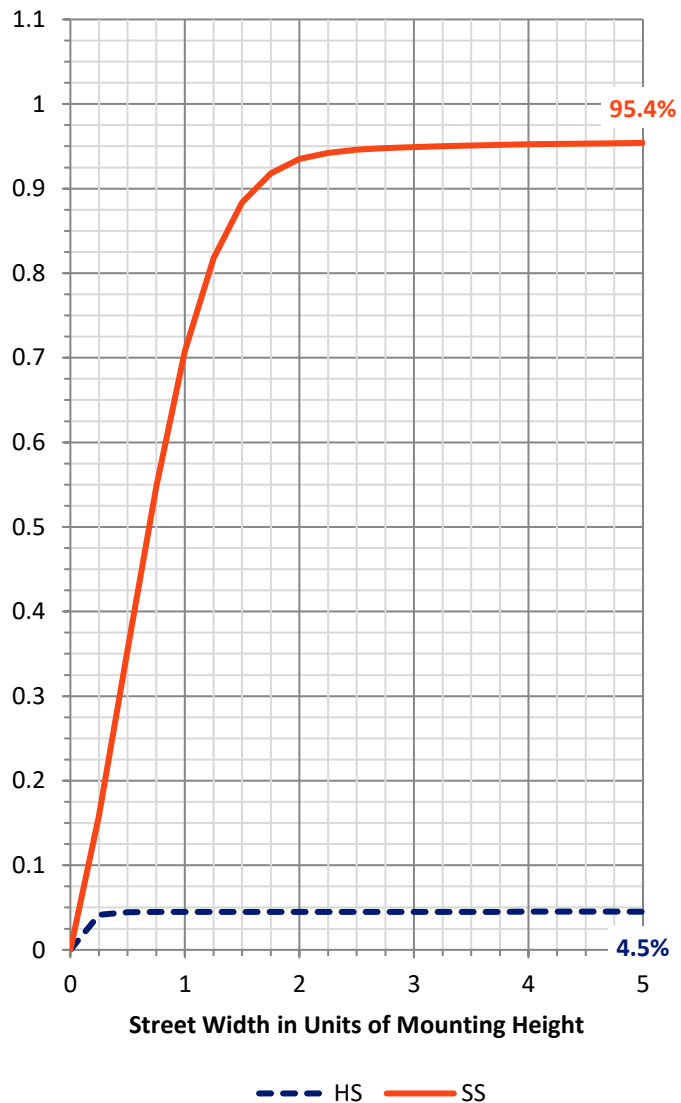
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.0	0.0	850.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	17894.3	0.0	17894.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	18744.3	0.0	18744.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.1
10°-20°	773.3	4.1
20°-30°	1498.7	8.0
30°-40°	2612.8	13.9
40°-50°	3826.6	20.4
50°-60°	4495.7	24.0
60°-70°	3796.2	20.3
70°-80°	1471.5	7.9
80°-90°	59.8	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°	18744.3	100.0
0°-180°	18744.3	100.0

Coefficient of Utilization

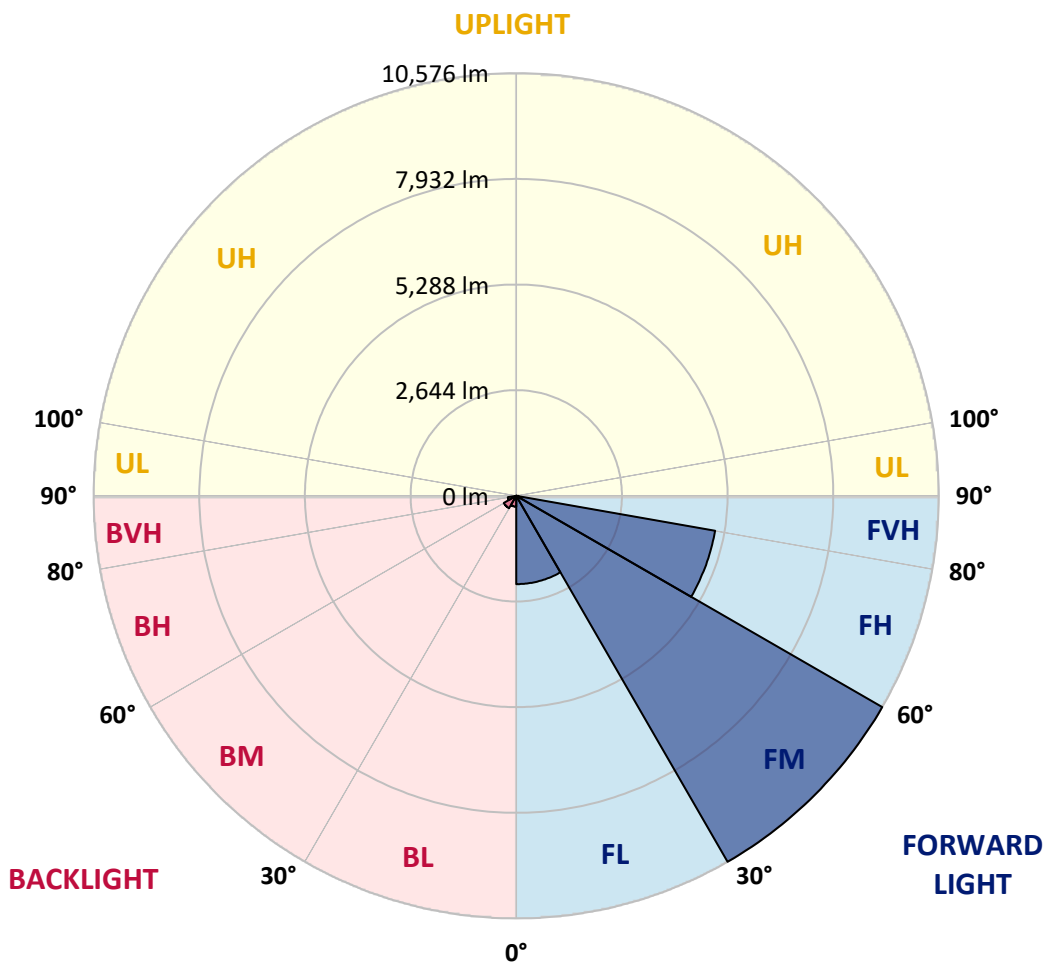


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.1	11.8			
FM (30°-60°)	10575.9	56.4			
FH (60°-80°)	5053.1	27.0			G3/7500
FVH (80°-90°)	55.2	0.3			G1/100
BL (0°-30°)	271.6	1.4	B1/500		
BM (30°-60°)	359.2	1.9	B1/1000		
BH (60°-80°)	214.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8
2.5°	2727.1	2675.4	2621.2	2605.7	2505.0	2391.3	2285.5	2182.2	2009.1	2011.7
5°	3514.7	3450.1	3406.2	3395.9	3238.4	3042.1	2882.0	2590.2	2303.5	2239.0
7.5°	4162.9	4142.2	4077.7	4023.4	3907.2	3667.1	3478.5	3060.2	2623.8	2551.4
10°	4555.4	4586.4	4614.8	4545.1	4454.7	4281.7	4023.4	3571.5	2987.9	2897.5
12.5°	4973.8	4922.1	4940.2	4997.0	4878.2	4839.5	4519.3	4098.3	3414.0	3241.0
15°	5082.2	5102.9	5146.8	5312.1	5392.1	5281.1	5004.8	4524.4	3855.6	3615.4
17.5°	5154.5	5144.2	5198.4	5446.4	5567.7	5673.6	5500.6	4999.6	4240.4	4026.0
20°	5244.9	5188.1	5306.9	5464.4	5745.9	5968.0	5960.3	5477.4	4643.2	4416.0
22.5°	5580.7	5536.7	5632.3	5647.8	5844.1	6154.0	6228.8	5867.3	5056.4	4777.5
25°	6200.4	6280.5	6166.9	6068.7	6128.1	6332.1	6386.4	6213.3	5472.2	5216.5
27.5°	7106.9	7096.5	6871.9	6745.3	6603.3	6577.5	6616.2	6536.2	5800.2	5616.8
30°	8080.5	7995.2	7788.6	7483.9	7171.4	6977.7	6923.5	6840.9	6184.9	5918.9
32.5°	8855.2	8901.7	8671.8	8274.1	7755.1	7494.2	7233.4	7143.0	6608.5	6373.5
35°	9567.9	9506.0	9322.6	8986.9	8522.0	8101.1	7693.1	7499.4	7117.2	6884.8
37.5°	10094.8	10172.2	9823.6	9503.4	9041.1	8692.5	8292.2	7868.7	7641.4	7331.5
40°	10593.2	10471.8	10236.8	9942.4	9513.7	9247.7	8984.3	8323.2	8199.2	7799.0
42.5°	10505.4	10513.1	10384.0	10146.4	9836.5	9684.1	9593.8	8875.8	8705.4	8449.7
45°	10146.4	10177.4	10221.3	10105.1	10130.9	9978.5	10221.3	9511.1	9343.3	9072.1
47.5°	9751.3	9802.9	9792.6	10004.4	10244.5	10296.2	10903.1	10216.1	10143.8	9994.0
50°	9095.3	9116.0	9314.9	9699.6	10027.6	10567.3	11414.4	10985.7	11096.7	10802.3
52.5°	7974.6	8049.5	8560.8	9110.8	9771.9	10704.2	11760.4	12129.7	12411.2	12109.1
55°	6556.8	6660.1	7163.7	8194.1	9162.5	10497.6	12075.5	12734.0	13304.7	12847.6
57.5°	5275.9	5286.3	5738.2	6802.1	8297.4	10092.2	12235.6	13028.4	13795.4	13428.7
60°	4020.9	3979.5	4385.0	5306.9	6840.9	9095.3	11835.3	13178.2	14407.4	14195.7
62.5°	2587.6	2523.0	2964.6	3863.3	5343.1	7434.8	11034.8	13180.8	15362.9	15282.9
65°	1280.9	1237.0	1616.6	2368.1	3698.1	5686.5	9893.3	13131.7	16530.2	16581.8
67.5°	676.6	692.1	813.5	1200.8	2133.1	4018.3	8173.4	12555.8	17126.7	17416.0
68°	622.4	627.5	723.1	999.4	1851.6	3726.5	7765.4	12388.0	17173.2	17529.6
70°	506.2	513.9	547.5	627.5	1002.0	2424.9	5991.3	10962.5	16473.4	16798.8
72.5°	402.9	426.1	446.8	480.3	588.8	1273.1	3726.5	8542.7	13609.5	13645.6
75°	307.3	325.4	366.7	395.1	459.7	699.8	1774.1	5208.8	8930.1	8491.1
77.5°	237.6	253.1	271.2	309.9	384.8	472.6	542.3	2210.6	3793.6	3122.2
80°	142.0	152.4	211.8	242.7	335.7	320.2	214.3	614.6	769.6	606.9
82.5°	82.6	90.4	121.4	185.9	235.0	173.0	126.5	191.1	188.5	165.3
85°	2.6	5.2	67.1	111.0	82.6	46.5	77.5	80.1	67.1	62.0
87.5°	0.0	2.6	18.1	15.5	18.1	10.3	15.5	20.7	25.8	23.2
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°
1794.8	0°	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8
1892.9	2.5°	1812.9	1756.1	1629.5	1534.0	1430.7	1368.7	1306.7	1268.0	1247.3	1234.4
2022.0	5°	1859.4	1740.6	1536.6	1355.8	1237.0	1156.9	1076.9	1035.6	996.8	976.2
2179.6	7.5°	1962.7	1784.5	1446.2	1249.9	1110.4	986.5	885.8	805.7	759.2	717.9
2383.6	10°	2089.2	1810.3	1448.7	1187.9	986.5	790.2	648.2	547.5	490.7	454.5
2641.8	12.5°	2218.3	1911.0	1459.1	1125.9	834.1	594.0	426.1	351.2	317.6	299.6
2882.0	15°	2414.6	2001.4	1433.3	1012.3	632.7	387.4	291.8	266.0	253.1	237.6
3181.6	17.5°	2585.0	2146.0	1420.3	841.9	433.8	278.9	242.7	214.3	201.4	185.9
3478.5	20°	2814.9	2236.4	1350.6	650.8	299.6	232.4	196.3	170.4	149.8	136.9
3798.8	22.5°	3024.0	2306.1	1226.7	444.2	229.8	183.4	144.6	118.8	100.7	85.2
4119.0	25°	3251.3	2375.8	1045.9	273.7	162.7	113.6	77.5	56.8	38.7	28.4
4382.4	27.5°	3414.0	2396.5	810.9	162.7	98.1	51.6	18.1	2.6	0.0	0.0
4643.2	30°	3579.3	2404.3	560.4	87.8	38.7	0.0	0.0	0.0	0.0	0.0
4942.8	32.5°	3767.8	2401.7	351.2	46.5	2.6	0.0	0.0	0.0	0.0	0.0
5273.3	35°	3912.4	2357.8	167.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0
5676.2	37.5°	4131.9	2293.2	51.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6130.7	40°	4382.4	2177.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6574.9	42.5°	4607.1	2058.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7086.2	45°	4862.7	1911.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7793.8	47.5°	5312.1	1849.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8635.7	50°	5898.3	1800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9444.0	52.5°	6259.8	1655.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9934.6	55°	6448.3	1505.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10533.8	57.5°	6727.3	1433.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11254.3	60°	7140.4	1438.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12460.3	62.5°	7786.1	1510.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13635.3	65°	8142.4	1438.4	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13919.3	67.5°	7840.3	1151.8	49.1	12.9	2.6	0.0	0.0	0.0	0.0	0.0
13761.8	68°	7579.5	1058.8	49.1	12.9	2.6	0.0	0.0	0.0	0.0	0.0
12457.7	70°	6265.0	689.5	46.5	12.9	5.2	0.0	0.0	0.0	0.0	0.0
9697.1	72.5°	4563.2	382.2	38.7	10.3	5.2	0.0	0.0	0.0	0.0	0.0
5712.4	75°	2654.7	191.1	28.4	10.3	5.2	0.0	0.0	0.0	0.0	0.0
1614.0	77.5°	692.1	95.6	23.2	12.9	7.7	2.6	0.0	0.0	0.0	0.0
294.4	80°	136.9	62.0	20.7	15.5	10.3	5.2	0.0	0.0	0.0	0.0
98.1	82.5°	64.6	43.9	20.7	15.5	12.9	7.7	2.6	0.0	0.0	0.0
43.9	85°	33.6	20.7	20.7	15.5	15.5	10.3	5.2	0.0	0.0	0.0
18.1	87.5°	15.5	7.7	7.7	7.7	7.7	5.2	2.6	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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