

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: P575172

Luminaire Tested: **EPH-VN-06-735-U-T2R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575172
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-735-U-T2R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

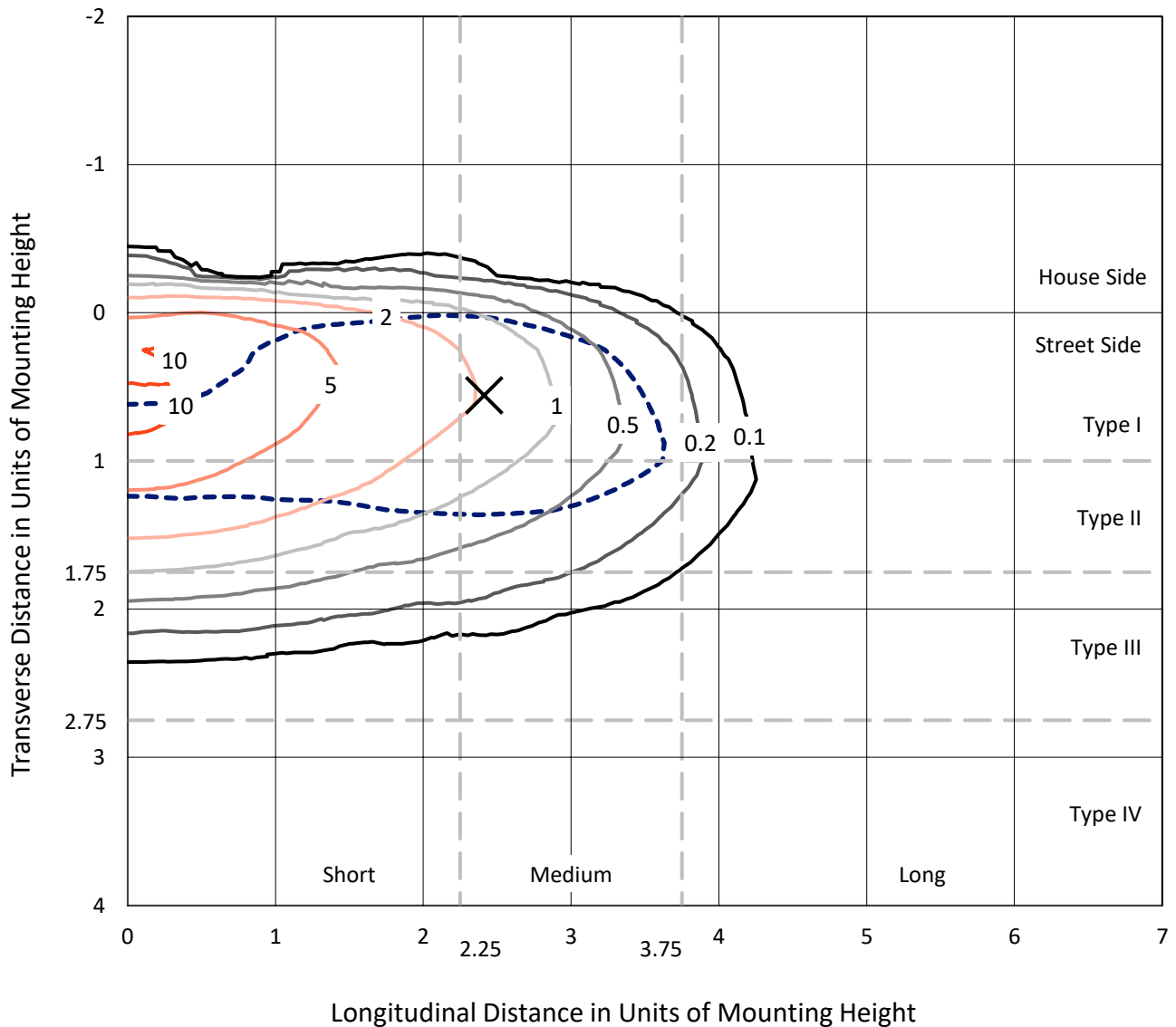
Lumens per Lamp: N/A
Luminaire Lumens: 35454.6 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

REPORT NUMBER: P575172
 CATALOG NUMBER: EPH-VN-06-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

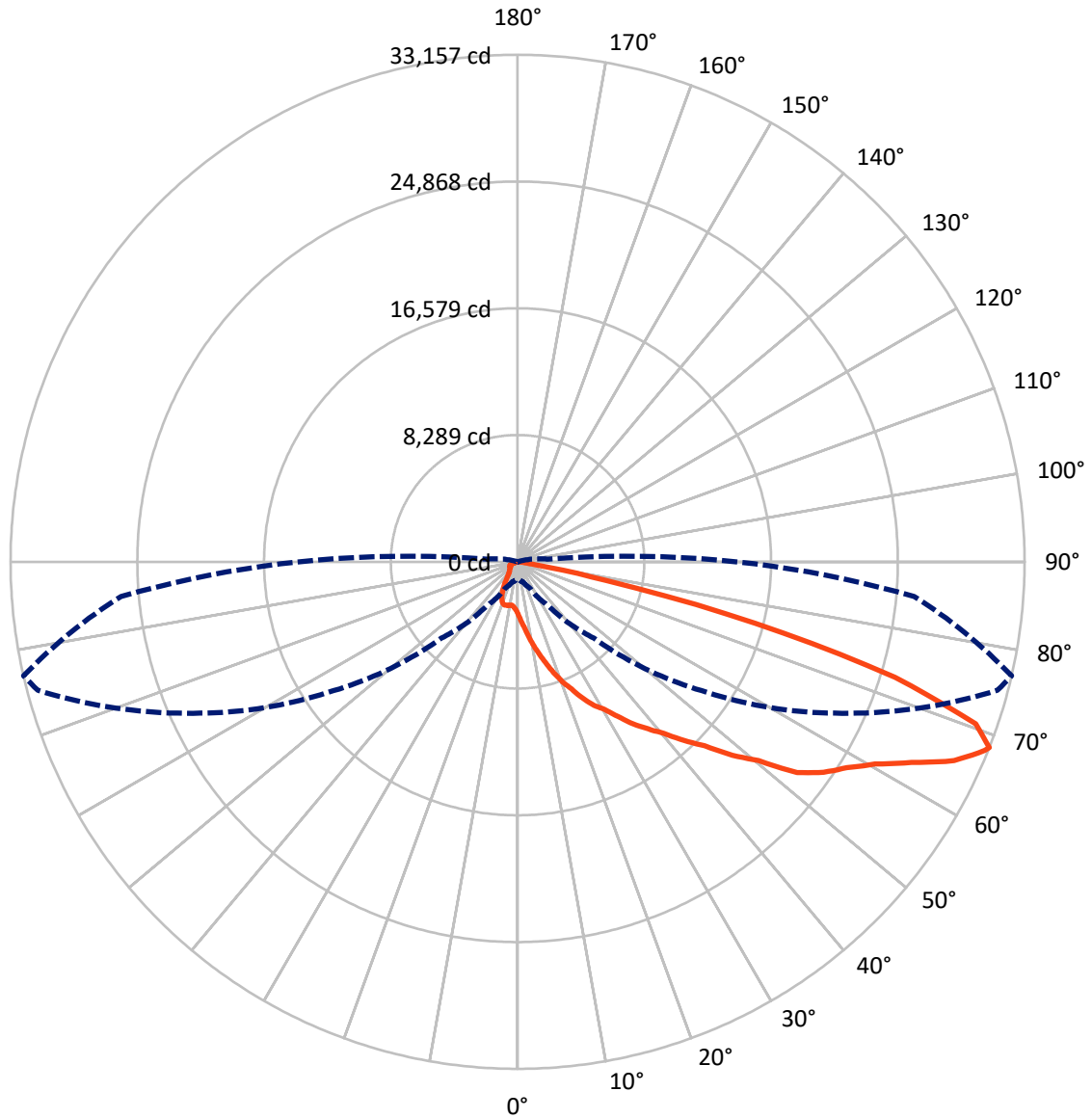
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P575172
CATALOG NUMBER: EPH-VN-06-735-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P575172
 CATALOG NUMBER: EPH-VN-06-735-U-T2R-HSS

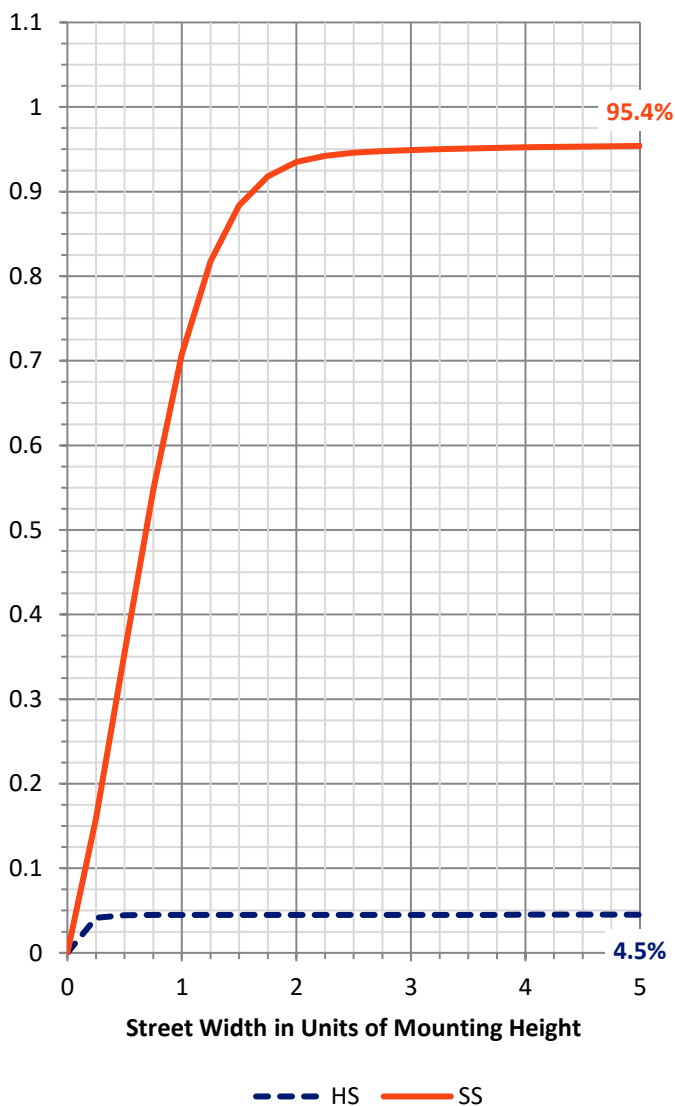
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1607.8	0.0	1607.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	33846.8	0.0	33846.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	35454.6	0.0	35454.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.6	1.1
10°-20°	1462.7	4.1
20°-30°	2834.8	8.0
30°-40°	4942.0	13.9
40°-50°	7238.0	20.4
50°-60°	8503.5	24.0
60°-70°	7180.5	20.3
70°-80°	2783.3	7.9
80°-90°	113.2	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°	35454.6	100.0
0°-180°	35454.6	100.0

Coefficient of Utilization



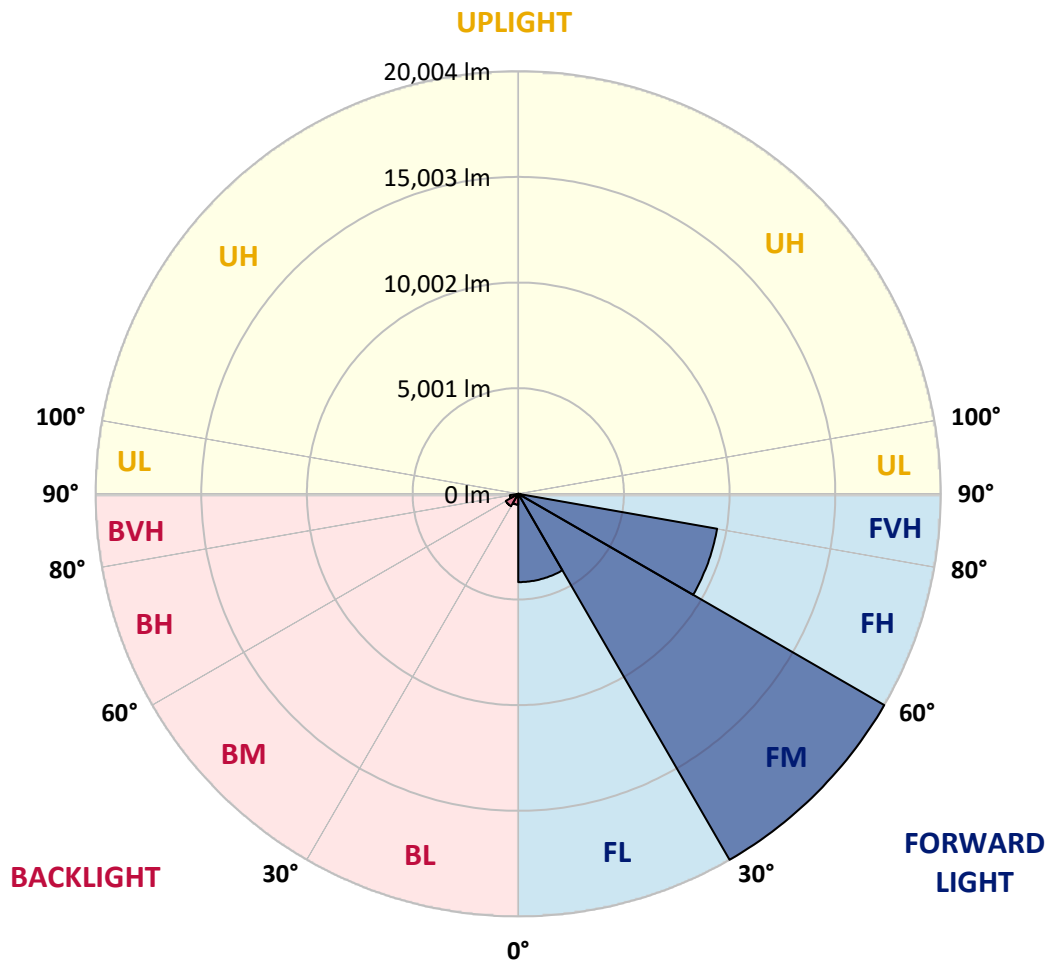
REPORT NUMBER: P575172
 CATALOG NUMBER: EPH-VN-06-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4180.4	11.8			
FM (30°-60°)	20004.1	56.4			
FH (60°-80°)	9557.8	27.0			G4/12000
FVH (80°-90°)	104.4	0.3			G2/225
BL (0°-30°)	513.7	1.4	B2/1000		
BM (30°-60°)	679.4	1.9	B1/1000		
BH (60°-80°)	406.0	1.1	B1/500		G1/500
BVH (80°-90°)	8.8	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-G4

Type II Medium





REPORT NUMBER: P575172
 CATALOG NUMBER: EPH-VN-06-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8
2.5°	5158.2	5060.5	4957.9	4928.6	4738.1	4523.2	4322.9	4127.5	3800.3	3805.1
5°	6648.0	6525.9	6442.9	6423.3	6125.3	5754.1	5451.3	4899.3	4357.1	4235.0
7.5°	7874.1	7835.0	7712.9	7610.3	7390.5	6936.2	6579.6	5788.3	4962.8	4826.0
10°	8616.5	8675.1	8728.9	8597.0	8426.0	8098.7	7610.3	6755.5	5651.5	5480.6
12.5°	9407.8	9310.1	9344.3	9451.8	9227.1	9153.8	8548.1	7751.9	6457.5	6130.2
15°	9613.0	9652.1	9735.1	10047.7	10199.1	9989.1	9466.4	8557.9	7292.8	6838.5
17.5°	9749.8	9730.2	9832.8	10301.7	10531.3	10731.6	10404.3	9456.7	8020.6	7615.2
20°	9920.7	9813.3	10038.0	10335.9	10868.3	11288.4	11273.8	10360.3	8782.6	8352.7
22.5°	10555.7	10472.7	10653.4	10682.7	11054.0	11640.1	11781.8	11097.9	9564.1	9036.6
25°	11728.0	11879.5	11664.5	11478.9	11591.3	11977.2	12079.7	11752.5	10350.6	9867.0
27.5°	13442.6	13423.0	12998.0	12758.7	12490.0	12441.2	12514.5	12363.0	10970.9	10624.1
30°	15284.1	15122.9	14732.1	14155.7	13564.7	13198.3	13095.7	12939.4	11698.7	11195.6
32.5°	16749.5	16837.4	16402.6	15650.4	14668.6	14175.2	13681.9	13510.9	12499.8	12055.3
35°	18097.6	17980.4	17633.6	16998.6	16119.3	15323.1	14551.4	14185.0	13462.1	13022.5
37.5°	19094.1	19240.6	18581.2	17975.5	17101.2	16441.7	15684.6	14883.5	14453.7	13867.5
40°	20036.8	19807.2	19362.7	18805.9	17995.0	17491.9	16993.7	15743.2	15508.8	14751.6
42.5°	19870.7	19885.4	19641.2	19191.8	18605.6	18317.4	18146.5	16788.5	16466.1	15982.6
45°	19191.8	19250.4	19333.4	19113.6	19162.5	18874.3	19333.4	17990.2	17672.7	17159.8
47.5°	18444.4	18542.1	18522.6	18923.1	19377.4	19475.1	20623.0	19323.7	19186.9	18903.6
50°	17203.7	17242.8	17618.9	18346.7	18967.1	19988.0	21590.1	20779.3	20989.3	20432.5
52.5°	15083.8	15225.4	16192.6	17233.0	18483.5	20246.9	22244.7	22943.2	23475.6	22904.1
55°	12402.1	12597.5	13550.0	15499.0	17330.7	19856.1	22840.6	24086.2	25165.7	24301.1
57.5°	9979.3	9998.9	10853.7	12866.2	15694.4	19089.2	23143.5	24643.0	26093.8	25400.2
60°	7605.4	7527.2	8294.1	10038.0	12939.4	17203.7	22386.3	24926.4	27251.4	26850.9
62.5°	4894.4	4772.3	5607.6	7307.4	10106.3	14062.9	20872.1	24931.2	29058.8	28907.3
65°	2422.8	2339.7	3057.8	4479.2	6994.8	10756.0	18713.1	24838.4	31266.6	31364.3
67.5°	1279.8	1309.1	1538.7	2271.4	4034.7	7600.5	15459.9	23749.2	32395.0	32942.1
68°	1177.2	1187.0	1367.7	1890.4	3502.3	7048.5	14688.1	23431.7	32482.9	33157.0
70°	957.4	972.0	1035.5	1187.0	1895.2	4586.7	11332.4	20735.3	31159.2	31774.6
72.5°	762.0	806.0	845.0	908.5	1113.7	2408.1	7048.5	16158.4	25742.1	25810.5
75°	581.3	615.5	693.6	747.4	869.5	1323.7	3355.8	9852.3	16891.1	16060.7
77.5°	449.4	478.7	512.9	586.2	727.8	893.9	1025.8	4181.3	7175.5	5905.5
80°	268.7	288.2	400.5	459.2	635.0	605.7	405.4	1162.5	1455.6	1147.9
82.5°	156.3	171.0	229.6	351.7	444.5	327.3	239.3	361.5	356.6	312.6
85°	4.9	9.8	127.0	210.0	156.3	87.9	146.5	151.4	127.0	117.2
87.5°	0.0	4.9	34.2	29.3	34.2	19.5	29.3	39.1	48.8	44.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575172

CATALOG NUMBER: EPH-VN-06-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3394.8	0°	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8	3394.8
3580.4	2.5°	3429.0	3321.6	3082.2	2901.5	2706.1	2588.9	2471.6	2398.4	2359.3	2334.9
3824.7	5°	3516.9	3292.3	2906.4	2564.4	2339.7	2188.3	2036.9	1958.7	1885.5	1846.4
4122.6	7.5°	3712.3	3375.3	2735.4	2364.2	2100.4	1865.9	1675.4	1524.0	1436.1	1357.9
4508.5	10°	3951.7	3424.1	2740.3	2246.9	1865.9	1494.7	1226.0	1035.5	928.1	859.7
4997.0	12.5°	4195.9	3614.6	2759.8	2129.7	1577.7	1123.5	806.0	664.3	600.8	566.6
5451.3	15°	4567.1	3785.6	2711.0	1914.8	1196.7	732.7	552.0	503.1	478.7	449.4
6017.9	17.5°	4889.5	4059.1	2686.6	1592.4	820.6	527.5	459.2	405.4	381.0	351.7
6579.6	20°	5324.3	4230.1	2554.7	1230.9	566.6	439.6	371.2	322.4	283.3	258.9
7185.3	22.5°	5719.9	4362.0	2320.2	840.2	434.7	346.8	273.5	224.7	190.5	161.2
7791.0	25°	6149.8	4493.9	1978.3	517.8	307.7	214.9	146.5	107.5	73.3	53.7
8289.2	27.5°	6457.5	4533.0	1533.8	307.7	185.6	97.7	34.2	4.9	0.0	0.0
8782.6	30°	6770.1	4547.6	1060.0	166.1	73.3	0.0	0.0	0.0	0.0	0.0
9349.2	32.5°	7126.7	4542.7	664.3	87.9	4.9	0.0	0.0	0.0	0.0	0.0
9974.5	35°	7400.2	4459.7	317.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0
10736.5	37.5°	7815.4	4337.6	97.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11596.2	40°	8289.2	4117.8	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12436.3	42.5°	8714.2	3893.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13403.5	45°	9197.8	3614.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14741.9	47.5°	10047.7	3497.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16334.3	50°	11156.5	3404.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17863.2	52.5°	11840.4	3131.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18791.2	55°	12197.0	2847.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19924.5	57.5°	12724.5	2711.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21287.3	60°	13506.1	2720.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23568.4	62.5°	14727.2	2857.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25790.9	65°	15401.3	2720.7	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26328.3	67.5°	14829.8	2178.6	92.8	24.4	4.9	0.0	0.0	0.0	0.0	0.0
26030.3	68°	14336.4	2002.7	92.8	24.4	4.9	0.0	0.0	0.0	0.0	0.0
23563.5	70°	11850.2	1304.2	87.9	24.4	9.8	0.0	0.0	0.0	0.0	0.0
18341.9	72.5°	8631.2	722.9	73.3	19.5	9.8	0.0	0.0	0.0	0.0	0.0
10804.8	75°	5021.4	361.5	53.7	19.5	9.8	0.0	0.0	0.0	0.0	0.0
3052.9	77.5°	1309.1	180.7	44.0	24.4	14.7	4.9	0.0	0.0	0.0	0.0
556.8	80°	258.9	117.2	39.1	29.3	19.5	9.8	0.0	0.0	0.0	0.0
185.6	82.5°	122.1	83.0	39.1	29.3	24.4	14.7	4.9	0.0	0.0	0.0
83.0	85°	63.5	39.1	39.1	29.3	29.3	19.5	9.8	0.0	0.0	0.0
34.2	87.5°	29.3	14.7	14.7	14.7	14.7	9.8	4.9	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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