

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: P575254

Luminaire Tested: **EPH-VN-08-735-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575254
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

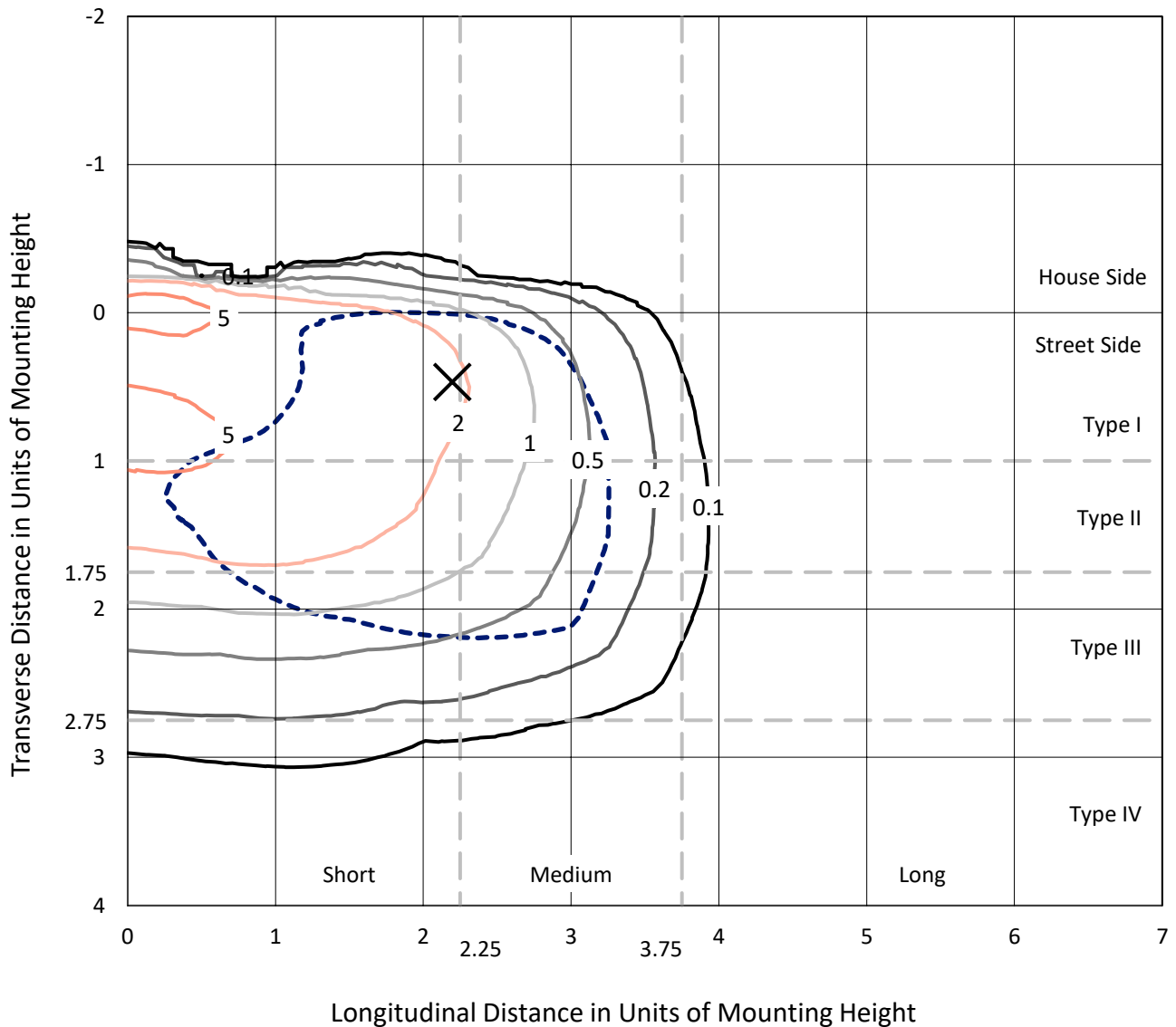
Lumens per Lamp: N/A
Luminaire Lumens: 34057.2 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

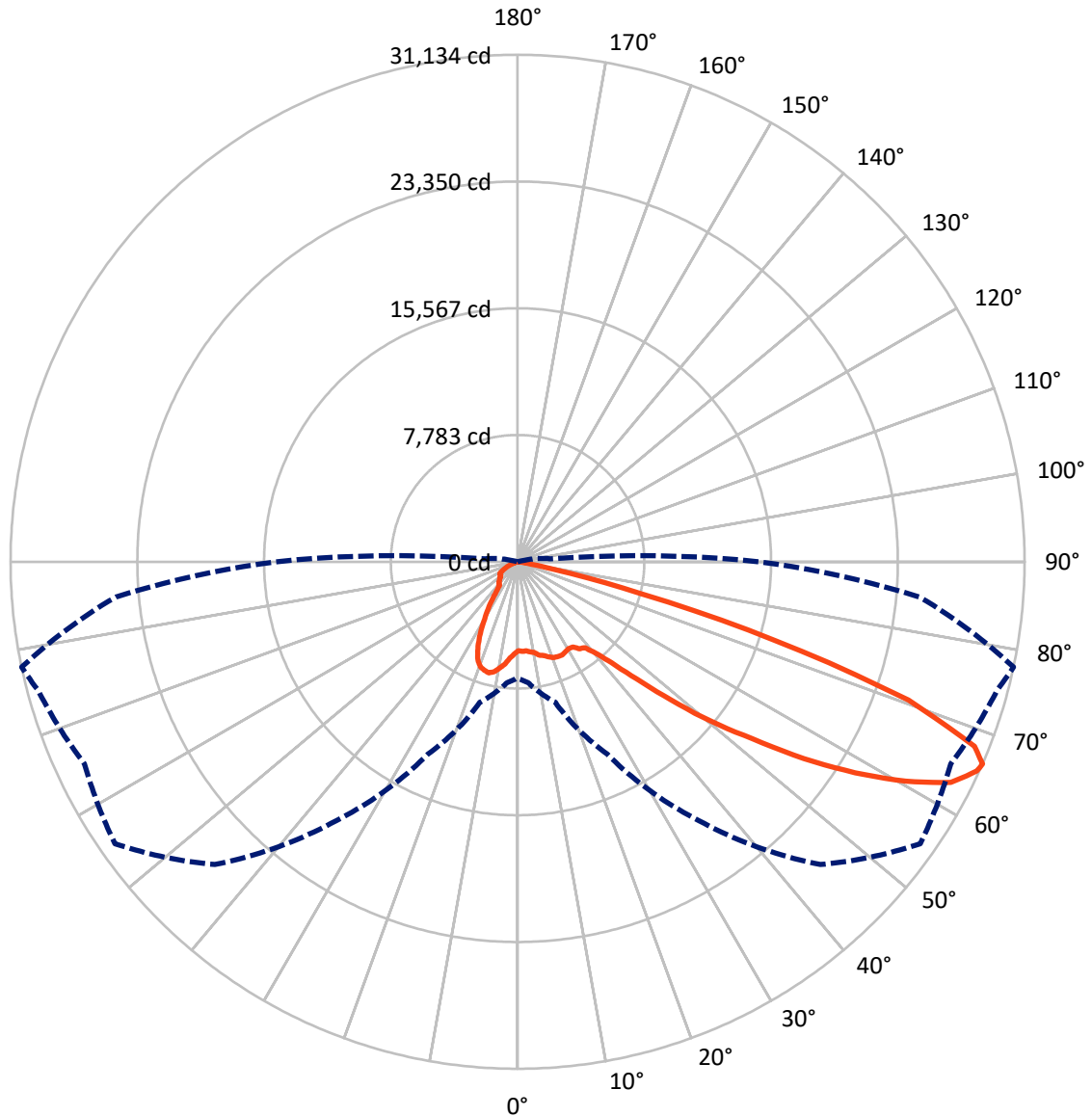
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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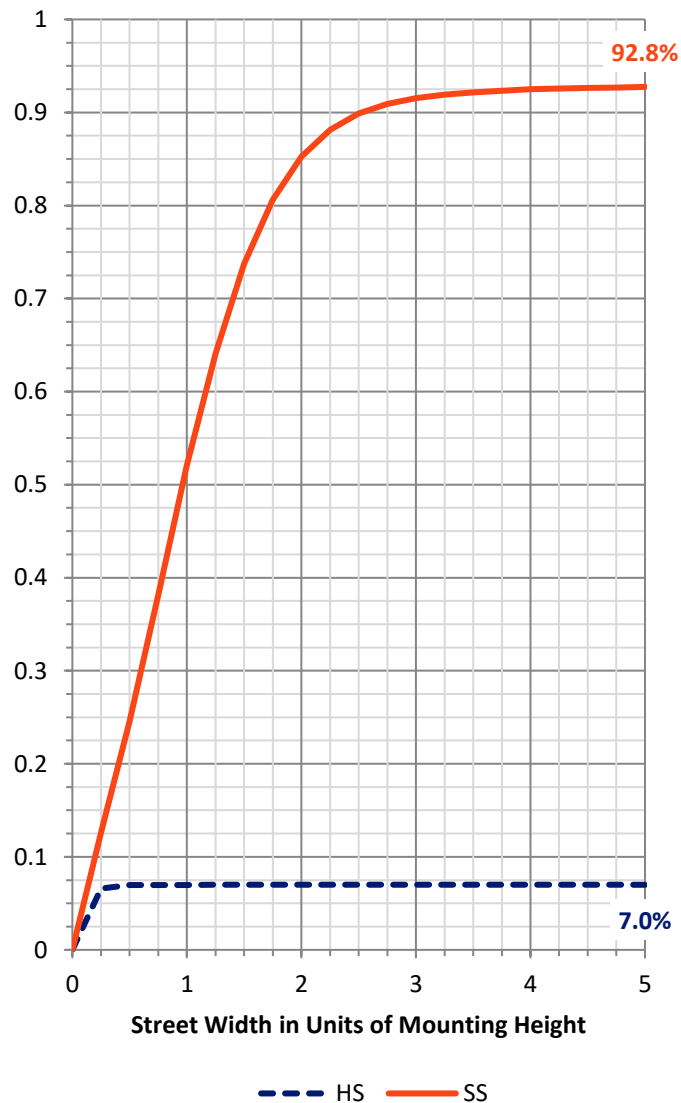
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2394.4	0.0	2394.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	31662.9	0.0	31662.9
	% Fixture	93.0	0.0	93.0
Total	Lumens	34057.2	0.0	34057.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.0	1.5
10°-20°	1126.5	3.3
20°-30°	1610.1	4.7
30°-40°	2756.1	8.1
40°-50°	4974.5	14.6
50°-60°	8507.1	25.0
60°-70°	10470.7	30.7
70°-80°	3958.5	11.6
80°-90°	154.6	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°	34057.2	100.0
0°-180°	34057.2	100.0

Coefficient of Utilization



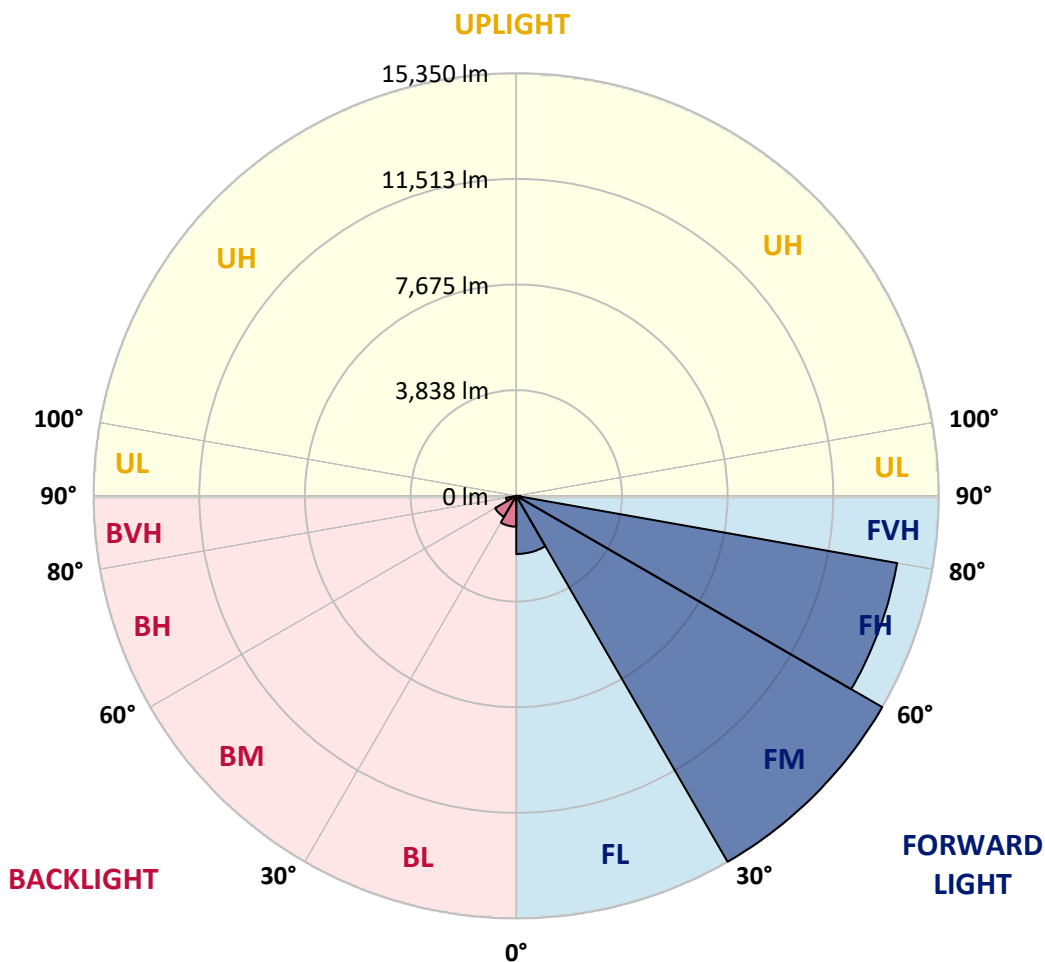
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.3	6.2			
FM (30°-60°)	15350.3	45.1			
FH (60°-80°)	14049.9	41.3			G5
FVH (80°-90°)	148.4	0.4			G2/225
BL (0°-30°)	1121.4	3.3	B3/2500		
BM (30°-60°)	887.4	2.6	B1/1000		
BH (60°-80°)	379.3	1.1	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9
2.5°	5017.4	4971.1	5017.4	5084.3	5120.4	5151.2	5259.3	5351.9	5449.7	5516.6
5°	4652.1	4739.6	4749.8	4770.4	4827.0	5012.3	5074.1	5233.6	5475.4	5496.0
7.5°	4363.9	4338.2	4405.1	4538.9	4682.9	4791.0	4971.1	5249.0	5501.2	5588.7
10°	3947.1	3998.5	4070.6	4204.4	4379.3	4646.9	4966.0	5274.7	5635.0	5665.9
12.5°	3720.6	3669.2	3782.4	3921.3	4219.8	4466.8	4857.9	5228.4	5717.3	5887.1
15°	3535.4	3561.1	3669.2	3761.8	4008.8	4322.7	4780.7	5341.6	5856.3	5974.6
17.5°	3458.2	3442.7	3525.1	3617.7	3921.3	4276.4	4749.8	5346.8	5979.8	6134.1
20°	3494.2	3525.1	3499.3	3586.8	3777.2	4137.5	4796.2	5444.6	6072.4	6283.4
22.5°	4060.3	4019.1	3813.3	3648.6	3658.9	4080.9	4760.1	5506.3	6154.7	6324.6
25°	5537.2	5315.9	4806.5	4173.5	3756.7	3926.5	4719.0	5485.7	6139.3	6350.3
27.5°	7024.4	6834.0	6334.8	5351.9	4152.9	3864.7	4574.9	5501.2	6062.1	6257.7
30°	8594.0	8696.9	7955.9	6787.7	5192.4	4204.4	4482.2	5418.8	6010.6	6175.3
32.5°	10204.7	10163.5	9715.8	8449.9	6679.6	4955.7	4631.5	5501.2	6077.5	6237.1
35°	11465.5	11321.4	10868.6	9726.1	7909.6	6087.8	5146.1	5892.3	6370.9	6561.3
37.5°	12088.2	12149.9	11887.5	10894.3	9257.8	7137.6	5789.4	5892.3	6463.5	6684.8
40°	12571.9	12757.2	12659.4	12340.3	10595.8	8321.2	6499.5	6257.7	6931.8	7348.6
42.5°	13153.4	13065.9	13642.3	13349.0	12345.5	9813.6	7744.9	7127.3	8038.2	8439.6
45°	13462.2	13796.7	14234.1	14609.8	13966.5	11676.5	9371.0	8666.0	9731.3	10240.7
47.5°	14254.7	14388.5	15098.6	15572.1	15283.9	13807.0	11841.2	10914.9	11861.8	12664.5
50°	14717.8	14537.7	15530.9	16251.4	16416.0	15572.1	14054.0	13333.5	14393.6	15417.7
52.5°	14311.3	14825.9	15819.1	17110.8	17568.8	17146.8	16652.8	16338.9	17085.0	18031.9
55°	12885.8	13235.8	15654.4	18052.5	19529.4	19333.9	19791.9	19586.0	20337.4	21340.9
57.5°	11738.2	12175.7	14301.0	18541.4	21356.3	21932.7	22509.0	22380.4	23286.1	24444.0
60°	11022.9	11275.1	13323.2	18417.9	22437.0	24618.9	25920.9	25015.2	26492.1	27377.2
62.5°	9782.7	9942.3	11897.8	16781.4	22761.2	26517.8	28725.5	27495.6	28777.0	29857.7
65°	7842.7	8274.9	9890.8	14331.9	20620.4	26867.8	30475.2	29029.1	30269.3	30979.5
66°	7137.6	7451.5	8933.6	13035.1	19400.8	26286.3	30181.9	29348.2	30485.5	31133.9
67.5°	5923.2	6195.9	7374.4	11187.6	16904.9	25004.9	30387.7	29132.1	30650.1	30253.9
70°	3921.3	4096.3	5043.2	7564.8	11774.3	20455.7	28185.2	27444.1	26945.0	25457.7
72.5°	1832.0	2084.2	3149.4	4585.2	6906.1	14311.3	22982.5	21989.3	18896.5	16519.0
75°	828.5	941.7	1729.1	2629.7	3098.0	7415.5	14825.9	13390.1	9407.1	7811.8
77.5°	447.7	509.5	844.0	1250.5	1127.0	2598.8	7338.3	6103.3	2964.2	2171.7
80°	344.8	406.5	705.0	715.3	416.8	674.1	2727.4	1888.6	741.0	560.9
82.5°	180.1	257.3	555.8	463.1	211.0	272.7	844.0	524.9	231.6	185.3
85°	72.0	113.2	313.9	308.8	123.5	92.6	236.7	159.5	92.6	77.2
87.5°	5.1	5.1	169.8	118.4	77.2	25.7	36.0	36.0	46.3	41.2
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°
5454.9	0°	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9	5454.9
5496.0	2.5°	5588.7	5650.4	5660.7	5830.5	5866.5	5830.5	5923.2	5907.7	5948.9	5918.0
5588.7	5°	5717.3	5804.8	5974.6	6103.3	6103.3	6000.3	5918.0	5809.9	5650.4	5609.2
5768.8	7.5°	5938.6	6216.5	6370.9	6288.5	6123.9	5737.9	5202.7	4811.6	4482.2	4358.7
6000.3	10°	6329.7	6484.1	6664.2	6329.7	5645.3	4827.0	3926.5	3334.7	2871.5	2768.6
6273.1	12.5°	6581.9	6828.9	6931.8	6103.3	4760.1	3540.5	2562.8	1893.8	1569.6	1322.5
6561.3	15°	6911.2	7194.2	6983.3	5490.9	3751.5	2320.9	1327.7	828.5	674.1	633.0
6756.8	17.5°	7137.6	7446.4	6772.3	4729.3	2660.5	1235.1	658.7	571.2	560.9	566.1
6967.8	20°	7533.9	7719.1	6453.2	3844.1	1590.1	633.0	530.0	509.5	499.2	514.6
7111.9	22.5°	7683.1	7852.9	5933.4	2784.0	715.3	422.0	396.2	380.8	391.1	386.0
7199.4	25°	7672.8	7760.3	5079.2	1595.3	211.0	164.7	149.2	149.2	138.9	144.1
7055.3	27.5°	7750.0	7533.9	4122.0	473.4	0.0	0.0	0.0	0.0	0.0	0.0
7086.2	30°	7791.2	7168.5	2933.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7266.3	32.5°	7811.8	6978.1	1888.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7523.6	35°	7971.3	6597.3	807.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7940.4	37.5°	8079.4	6108.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8722.6	40°	8527.1	5954.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9895.9	42.5°	9108.6	5665.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11640.5	45°	9916.5	5238.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13637.2	47.5°	10986.9	4986.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15505.2	50°	11784.6	4590.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17609.9	52.5°	12798.3	4353.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20069.8	55°	14002.5	4363.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22153.9	57.5°	15098.6	4291.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23785.3	60°	15659.6	3669.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24958.6	62.5°	15541.2	2969.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25313.6	65°	15129.5	2331.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24768.2	66°	14846.5	2063.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24037.4	67.5°	13987.1	1651.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18793.5	70°	11131.0	1132.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11856.6	72.5°	7081.0	694.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5192.4	75°	3262.6	319.1	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1507.8	77.5°	1024.1	195.6	41.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.2	80°	267.6	123.5	41.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
154.4	82.5°	138.9	87.5	36.0	15.4	10.3	0.0	0.0	0.0	0.0	0.0
72.0	85°	87.5	36.0	15.4	10.3	10.3	0.0	0.0	0.0	0.0	0.0
51.5	87.5°	77.2	20.6	10.3	10.3	5.1	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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