

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: P575246

Luminaire Tested: **EPH-VN-06-730-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575246
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-730-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

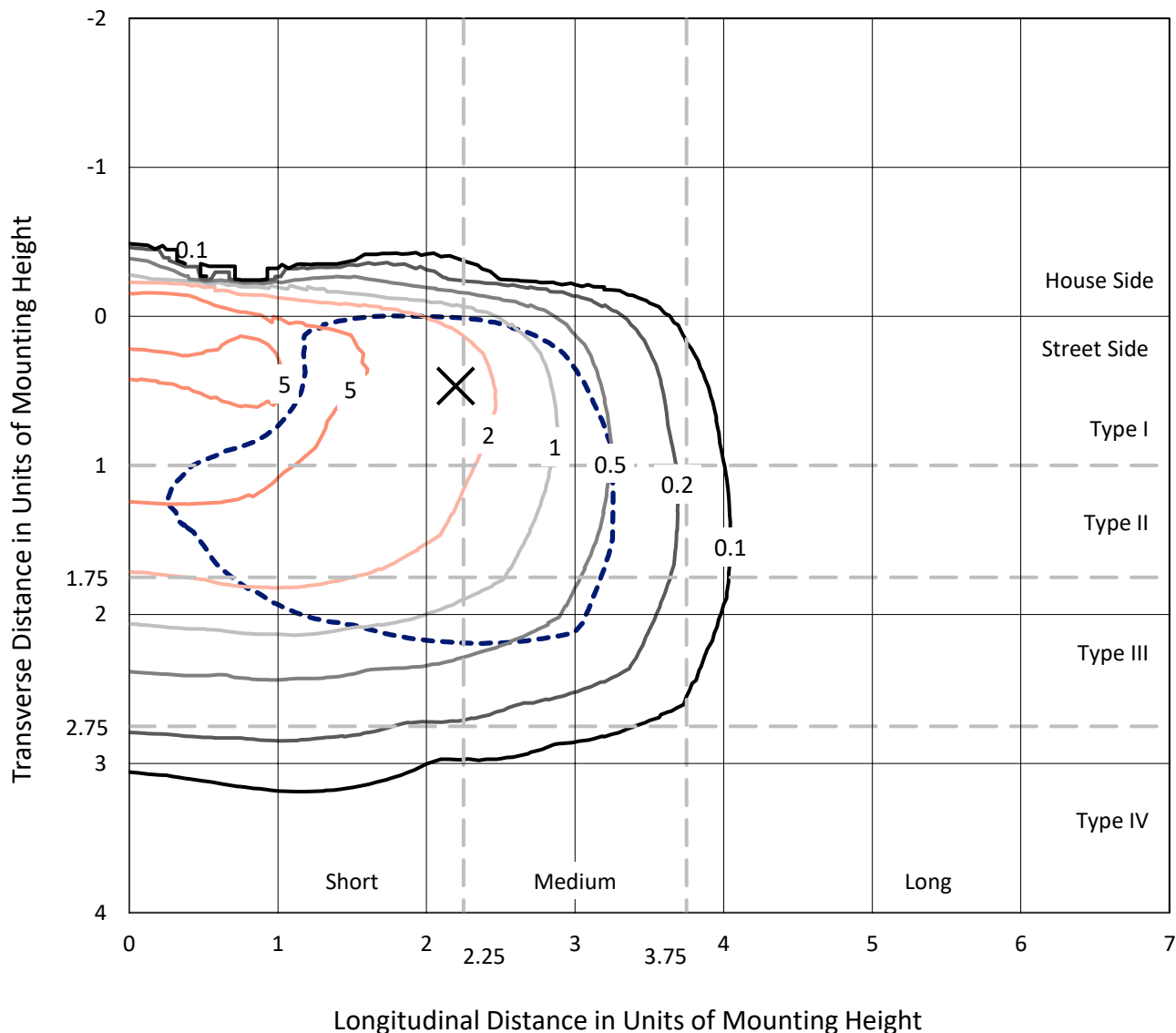
Lumens per Lamp: N/A
Luminaire Lumens: 29844.4 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

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: P575246
 CATALOG NUMBER: EPH-VN-06-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

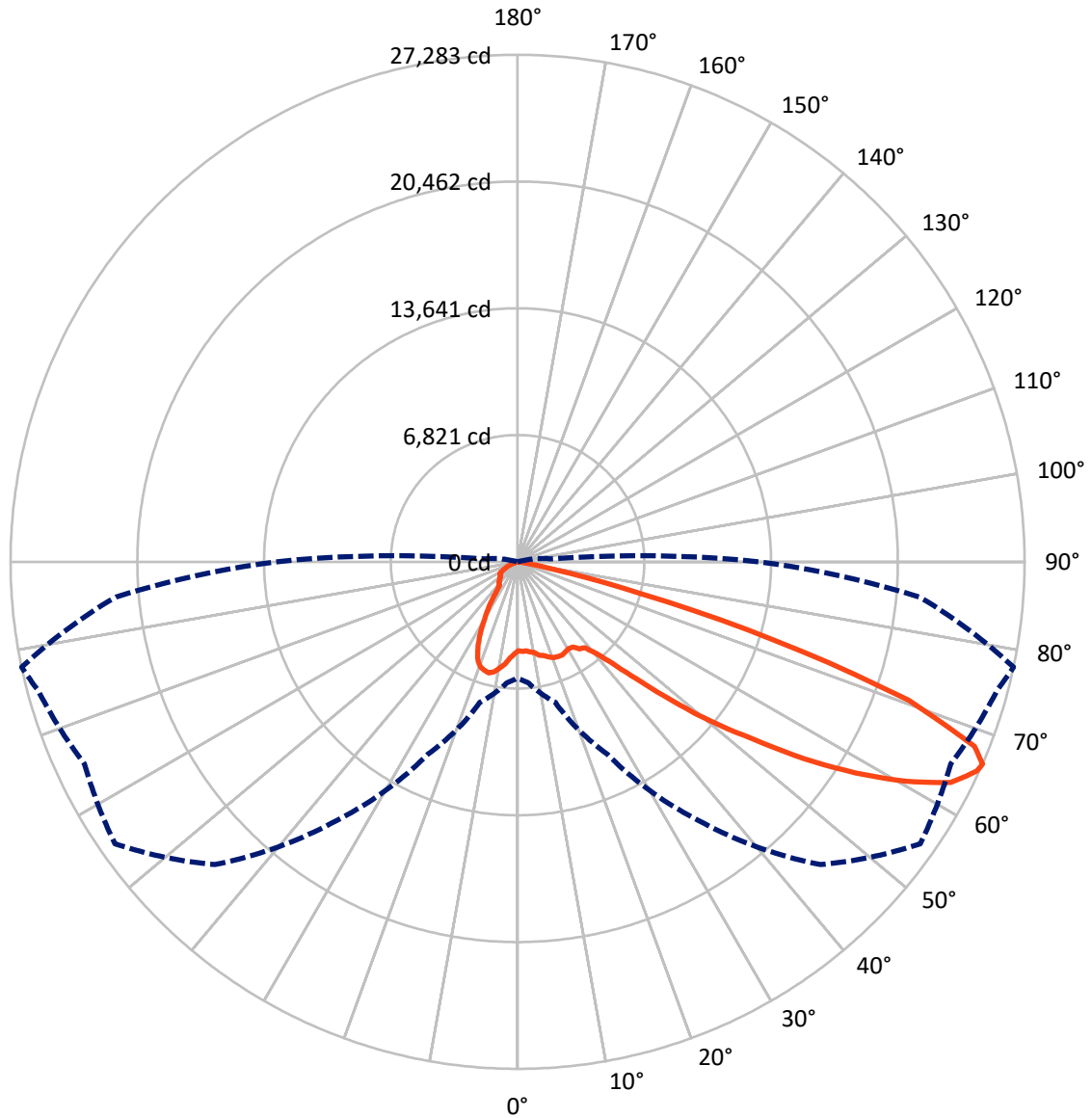
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

REPORT NUMBER: P575246
CATALOG NUMBER: EPH-VN-06-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P575246
 CATALOG NUMBER: EPH-VN-06-730-U-T3R-HSS

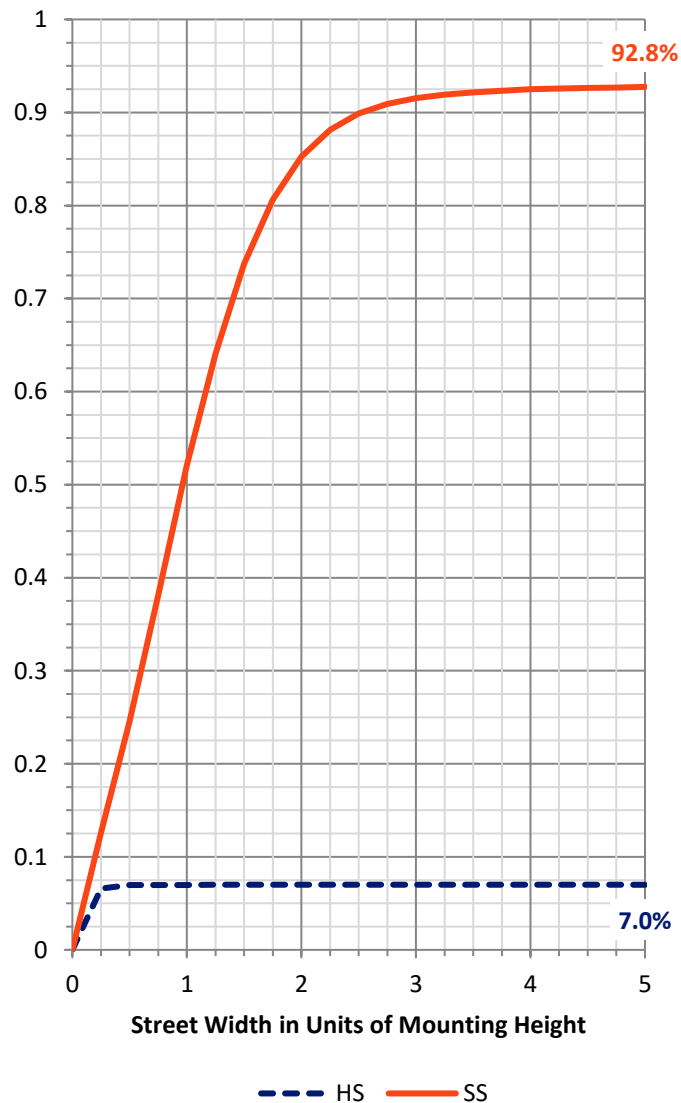
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2098.2	0.0	2098.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	27746.2	0.0	27746.2
	% Fixture	93.0	0.0	93.0
Total	Lumens	29844.4	0.0	29844.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	1.5
10°-20°	987.2	3.3
20°-30°	1411.0	4.7
30°-40°	2415.2	8.1
40°-50°	4359.2	14.6
50°-60°	7454.8	25.0
60°-70°	9175.5	30.7
70°-80°	3468.8	11.6
80°-90°	135.5	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°	29844.4	100.0
0°-180°	29844.4	100.0

Coefficient of Utilization

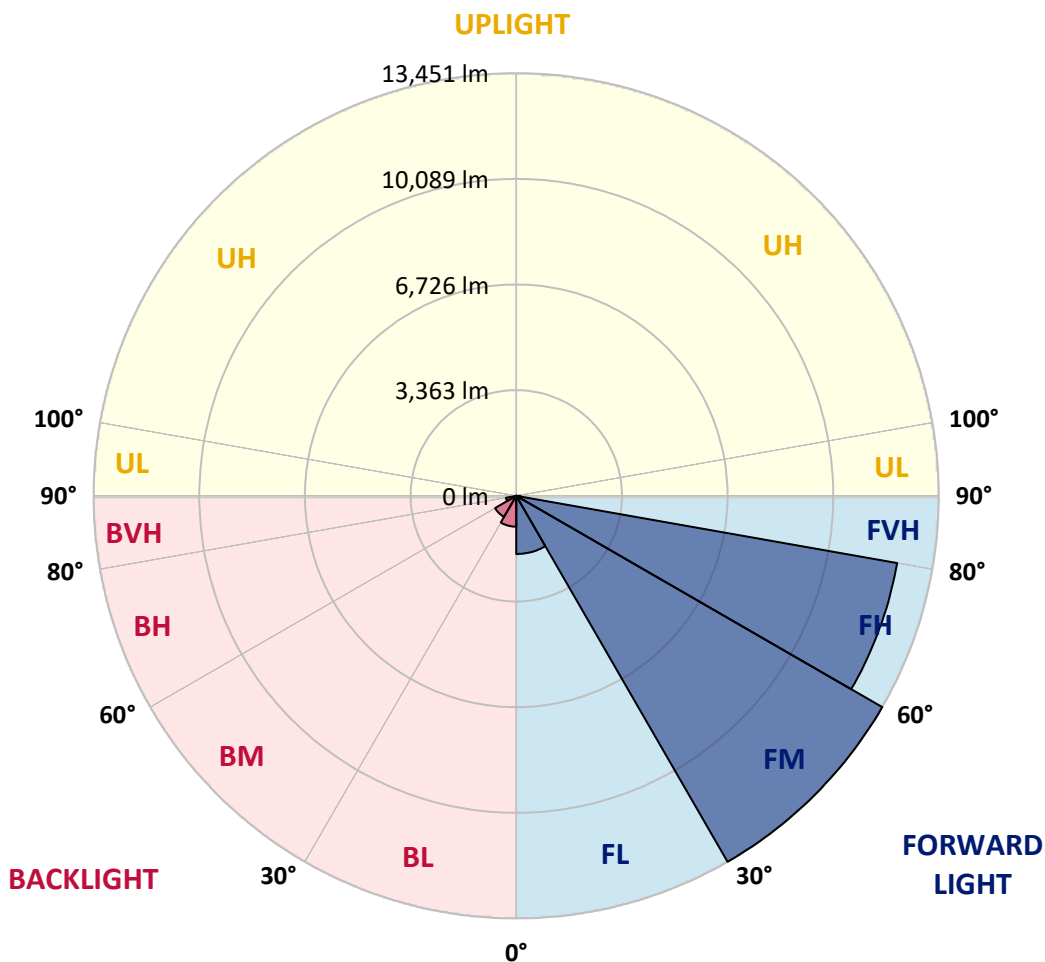


REPORT NUMBER: P575246
 CATALOG NUMBER: EPH-VN-06-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1852.8	6.2			
FM (30°-60°)	13451.5	45.1			
FH (60°-80°)	12311.9	41.3			G5
FVH (80°-90°)	130.1	0.4			G2/225
BL (0°-30°)	982.7	3.3	B2/1000		
BM (30°-60°)	777.7	2.6	B1/1000		
BH (60°-80°)	332.4	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	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-G5
 Type III Short





REPORT NUMBER: P575246
 CATALOG NUMBER: EPH-VN-06-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°
0°	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1
2.5°	4396.8	4356.2	4396.8	4455.4	4487.0	4514.0	4608.7	4689.9	4775.6	4834.2
5°	4076.6	4153.3	4162.3	4180.3	4229.9	4392.3	4446.4	4586.2	4798.1	4816.2
7.5°	3824.1	3801.5	3860.2	3977.4	4103.7	4198.4	4356.2	4599.7	4820.7	4897.4
10°	3458.8	3503.9	3567.0	3684.3	3837.6	4072.1	4351.7	4622.3	4937.9	4965.0
12.5°	3260.4	3215.3	3314.5	3436.3	3697.8	3914.3	4257.0	4581.7	5010.1	5158.9
15°	3098.1	3120.6	3215.3	3296.5	3512.9	3788.0	4189.4	4680.9	5131.9	5235.6
17.5°	3030.4	3016.9	3089.0	3170.2	3436.3	3747.4	4162.3	4685.4	5240.1	5375.4
20°	3062.0	3089.0	3066.5	3143.1	3310.0	3625.7	4202.9	4771.1	5321.3	5506.1
22.5°	3558.0	3521.9	3341.6	3197.3	3206.3	3576.1	4171.3	4825.2	5393.4	5542.2
25°	4852.3	4658.4	4211.9	3657.2	3292.0	3440.8	4135.2	4807.2	5379.9	5564.8
27.5°	6155.5	5988.7	5551.2	4689.9	3639.2	3386.7	4009.0	4820.7	5312.2	5483.6
30°	7530.9	7621.1	6971.7	5948.1	4550.1	3684.3	3927.8	4748.5	5267.1	5411.4
32.5°	8942.4	8906.3	8514.0	7404.7	5853.4	4342.7	4058.6	4820.7	5325.8	5465.6
35°	10047.3	9921.0	9524.1	8523.0	6931.2	5334.8	4509.5	5163.4	5582.8	5749.7
37.5°	10592.9	10647.0	10417.0	9546.7	8112.7	6254.7	5073.2	5163.4	5664.0	5857.9
40°	11016.8	11179.1	11093.5	10813.9	9285.1	7291.9	5695.5	5483.6	6074.3	6439.6
42.5°	11526.4	11449.7	11954.8	11697.7	10818.4	8599.7	6786.9	6245.7	7043.9	7395.6
45°	11797.0	12090.1	12473.4	12802.6	12238.9	10232.1	8211.9	7594.1	8527.5	8974.0
47.5°	12491.4	12608.7	13231.0	13645.9	13393.3	12099.1	10376.4	9564.7	10394.5	11098.0
50°	12897.3	12739.4	13609.8	14241.1	14385.4	13645.9	12315.6	11684.2	12613.2	13510.6
52.5°	12541.0	12992.0	13862.3	14994.2	15395.6	15025.8	14592.9	14317.8	14971.7	15801.4
55°	11291.9	11598.5	13718.0	15819.5	17113.7	16942.3	17343.7	17163.3	17821.7	18701.1
57.5°	10286.3	10669.6	12532.0	16247.9	18714.6	19219.7	19724.7	19612.0	20405.7	21420.3
60°	9659.4	9880.4	11675.2	16139.6	19661.6	21573.6	22714.5	21920.9	23215.1	23990.7
62.5°	8572.6	8712.4	10426.1	14705.6	19945.7	23237.7	25172.2	24094.5	25217.3	26164.3
65°	6872.5	7251.3	8667.3	12559.1	18069.7	23544.3	26705.5	25438.3	26525.1	27147.4
66°	6254.7	6529.8	7828.6	11422.7	17001.0	23034.7	26448.4	25717.9	26714.5	27282.7
67.5°	5190.5	5429.5	6462.2	9803.7	14813.8	21911.8	26628.8	25528.5	26858.8	26511.6
70°	3436.3	3589.6	4419.3	6629.0	10317.8	17925.4	24698.7	24049.4	23611.9	22308.7
72.5°	1605.4	1826.4	2759.8	4018.0	6051.8	12541.0	20139.6	19269.3	16559.0	14475.6
75°	726.0	825.2	1515.2	2304.4	2714.7	6498.2	12992.0	11733.8	8243.4	6845.5
77.5°	392.3	446.4	739.6	1095.8	987.6	2277.3	6430.6	5348.3	2597.5	1903.0
80°	302.1	356.3	617.8	626.8	365.3	590.7	2390.1	1655.0	649.4	491.5
82.5°	157.8	225.5	487.0	405.9	184.9	239.0	739.6	460.0	202.9	162.3
85°	63.1	99.2	275.1	270.6	108.2	81.2	207.4	139.8	81.2	67.6
87.5°	4.5	4.5	148.8	103.7	67.6	22.5	31.6	31.6	40.6	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575246

CATALOG NUMBER: EPH-VN-06-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4780.1	0°	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1	4780.1
4816.2	2.5°	4897.4	4951.5	4960.5	5109.3	5140.9	5109.3	5190.5	5177.0	5213.0	5186.0
4897.4	5°	5010.1	5086.8	5235.6	5348.3	5348.3	5258.1	5186.0	5091.3	4951.5	4915.4
5055.2	7.5°	5204.0	5447.5	5582.8	5510.7	5366.4	5028.1	4559.1	4216.4	3927.8	3819.6
5258.1	10°	5546.7	5682.0	5839.9	5546.7	4947.0	4229.9	3440.8	2922.2	2516.3	2426.1
5497.1	12.5°	5767.7	5984.2	6074.3	5348.3	4171.3	3102.6	2245.8	1659.5	1375.4	1159.0
5749.7	15°	6056.3	6304.3	6119.4	4811.7	3287.5	2033.8	1163.5	726.0	590.7	554.7
5921.0	17.5°	6254.7	6525.3	5934.6	4144.3	2331.4	1082.3	577.2	500.6	491.5	496.0
6105.9	20°	6602.0	6764.3	5655.0	3368.6	1393.4	554.7	464.5	446.4	437.4	451.0
6232.2	22.5°	6732.7	6881.6	5199.5	2439.7	626.8	369.8	347.2	333.7	342.7	338.2
6308.8	25°	6723.7	6800.4	4450.9	1398.0	184.9	144.3	130.8	130.8	121.8	126.3
6182.6	27.5°	6791.4	6602.0	3612.1	414.9	0.0	0.0	0.0	0.0	0.0	0.0
6209.6	30°	6827.4	6281.8	2570.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6367.5	32.5°	6845.5	6114.9	1655.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6592.9	35°	6985.3	5781.2	708.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6958.2	37.5°	7080.0	5352.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7643.7	40°	7472.3	5217.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8671.8	42.5°	7981.9	4965.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10200.6	45°	8689.9	4590.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11950.3	47.5°	9627.9	4369.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13587.2	50°	10326.8	4022.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15431.6	52.5°	11215.2	3815.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17587.2	55°	12270.5	3824.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19413.6	57.5°	13231.0	3761.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20843.1	60°	13722.5	3215.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21871.3	62.5°	13618.8	2602.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22182.4	65°	13258.0	2042.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21704.4	66°	13010.0	1808.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21064.1	67.5°	12256.9	1447.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16468.8	70°	9754.1	992.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10390.0	72.5°	6205.1	608.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4550.1	75°	2859.0	279.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1321.3	77.5°	897.4	171.4	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
315.7	80°	234.5	108.2	36.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
135.3	82.5°	121.8	76.7	31.6	13.5	9.0	0.0	0.0	0.0	0.0	0.0
63.1	85°	76.7	31.6	13.5	9.0	9.0	0.0	0.0	0.0	0.0	0.0
45.1	87.5°	67.6	18.0	9.0	9.0	4.5	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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