

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: P575264

Luminaire Tested: **EPH-VN-06-750-U-T3R-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575264
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-T3R-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens and House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

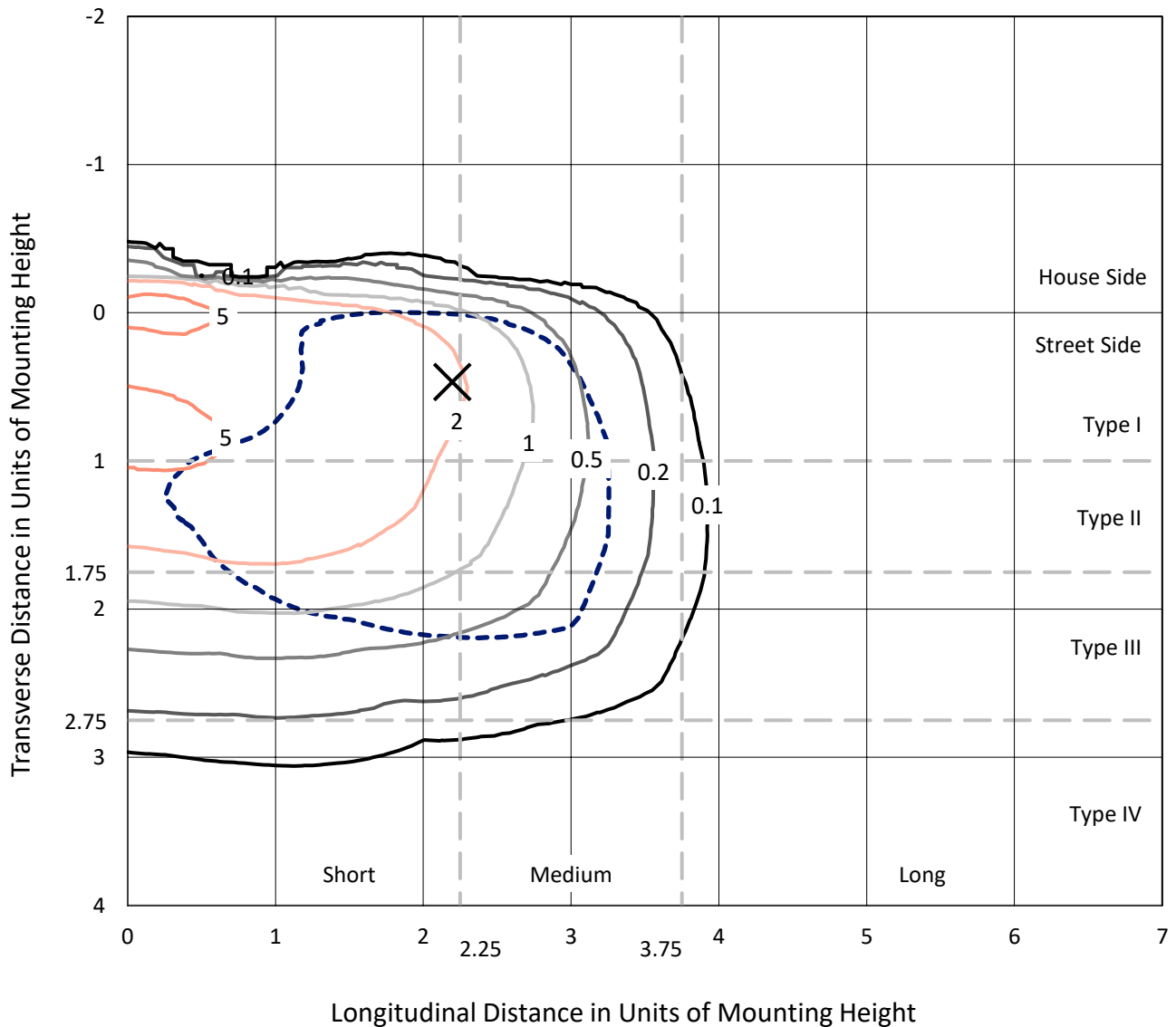
Lumens per Lamp: N/A
Luminaire Lumens: 33525 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

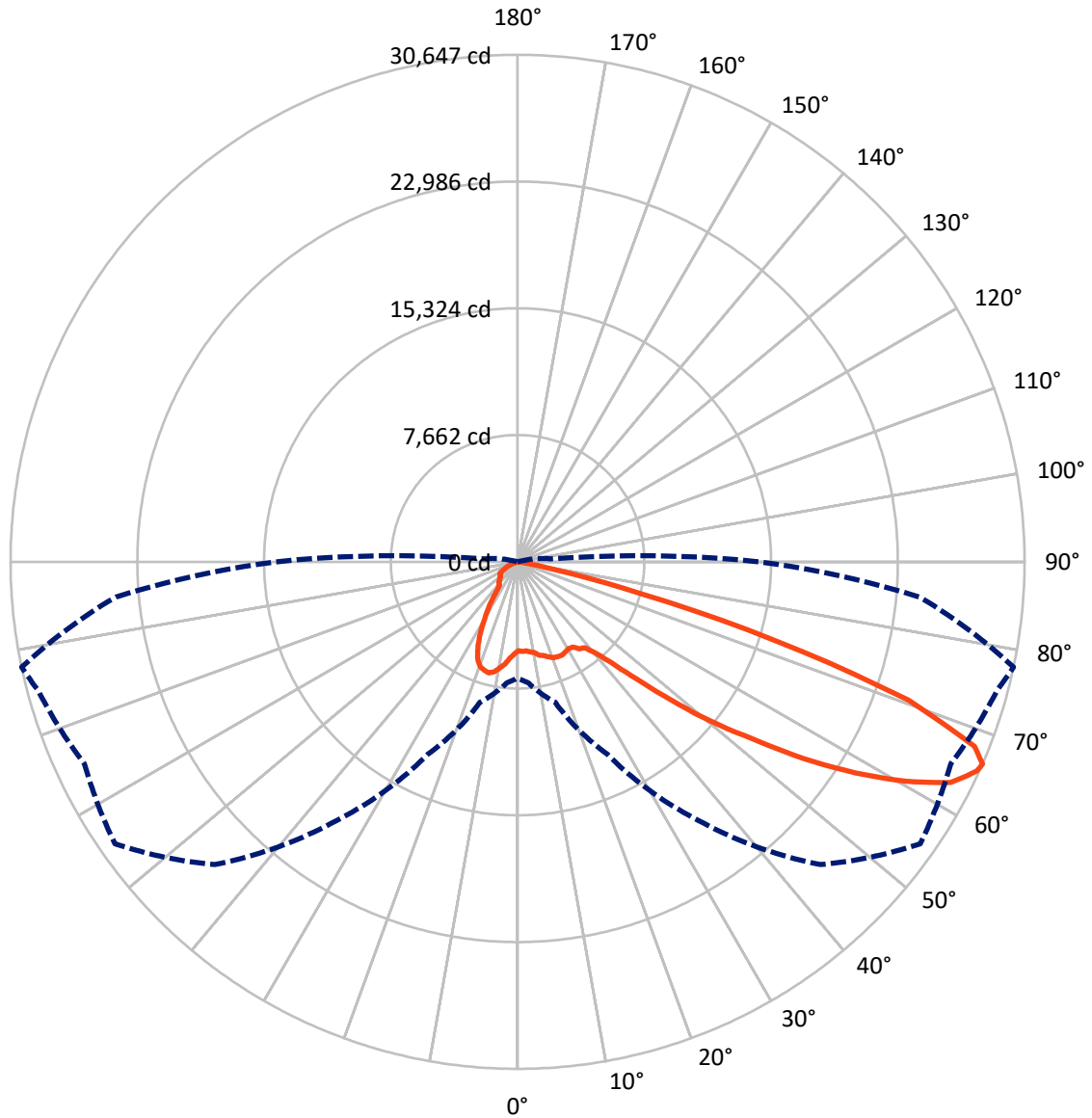
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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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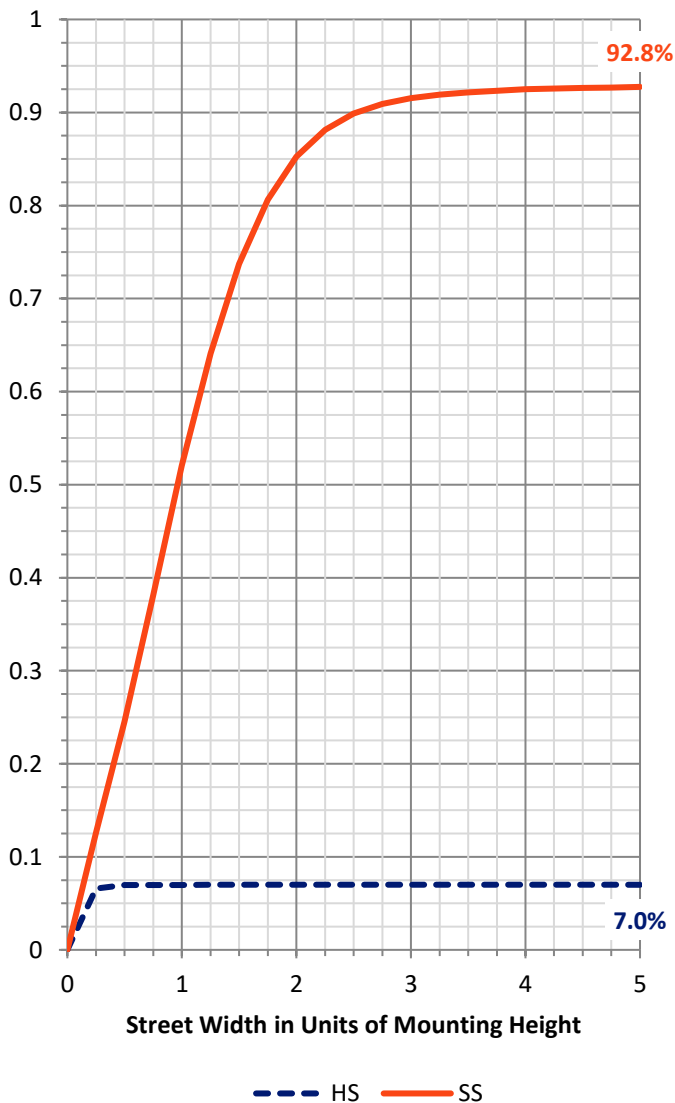
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2357.0	0.0	2357.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	31168.1	0.0	31168.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	33525.0	0.0	33525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.2	1.5
10°-20°	1108.9	3.3
20°-30°	1585.0	4.7
30°-40°	2713.1	8.1
40°-50°	4896.8	14.6
50°-60°	8374.1	25.0
60°-70°	10307.1	30.7
70°-80°	3896.6	11.6
80°-90°	152.2	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°	33525.0	100.0
0°-180°	33525.0	100.0

Coefficient of Utilization

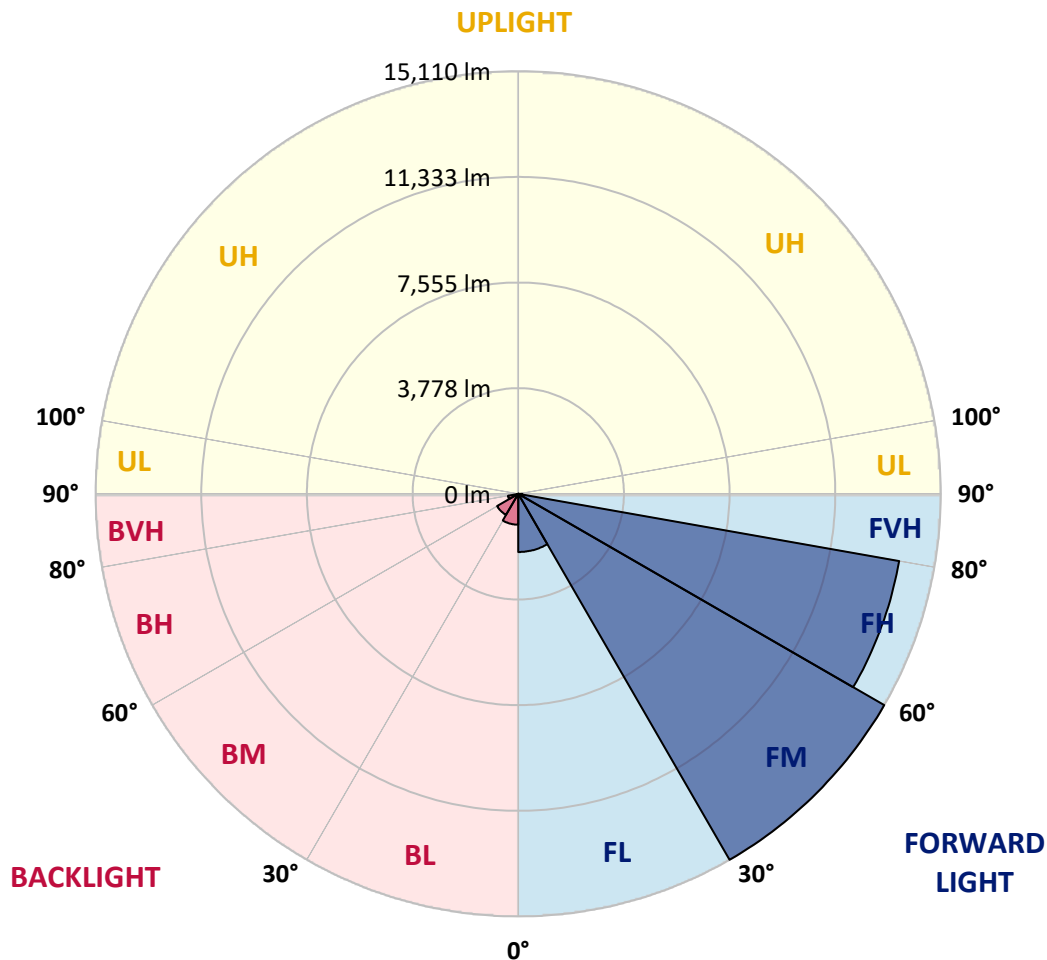


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2081.3	6.2			
FM (30°-60°)	15110.4	45.1			
FH (60°-80°)	13830.3	41.3			G5
FVH (80°-90°)	146.1	0.4			G2/225
BL (0°-30°)	1103.9	3.3	B3/2500		
BM (30°-60°)	873.6	2.6	B1/1000		
BH (60°-80°)	373.4	1.1	B1/500		G1/500
BVH (80°-90°)	6.1	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°	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6
2.5°	4939.0	4893.4	4939.0	5004.9	5040.4	5070.7	5177.1	5268.3	5364.6	5430.4
5°	4579.4	4665.5	4675.6	4695.9	4751.6	4934.0	4994.8	5151.8	5389.9	5410.1
7.5°	4295.7	4270.4	4336.2	4467.9	4609.8	4716.1	4893.4	5167.0	5415.2	5501.3
10°	3885.4	3936.0	4007.0	4138.7	4310.9	4574.3	4888.4	5192.3	5546.9	5577.3
12.5°	3662.5	3611.8	3723.3	3860.0	4153.9	4397.0	4782.0	5146.7	5628.0	5795.1
15°	3480.1	3505.4	3611.8	3703.0	3946.2	4255.2	4706.0	5258.2	5764.7	5881.3
17.5°	3404.1	3388.9	3470.0	3561.2	3860.0	4209.6	4675.6	5263.2	5886.3	6038.3
20°	3439.6	3470.0	3444.7	3530.8	3718.2	4072.8	4721.2	5359.5	5977.5	6185.2
22.5°	3996.8	3956.3	3753.7	3591.6	3601.7	4017.1	4685.8	5420.3	6058.6	6225.7
25°	5450.7	5232.8	4731.3	4108.3	3697.9	3865.1	4645.2	5400.0	6043.4	6251.0
27.5°	6914.7	6727.2	6235.9	5268.3	4088.0	3804.3	4503.4	5415.2	5967.4	6159.9
30°	8459.7	8561.0	7831.5	6681.6	5111.3	4138.7	4412.2	5334.2	5916.7	6078.8
32.5°	10045.2	10004.7	9564.0	8317.8	6575.3	4878.2	4559.1	5415.2	5982.6	6139.6
35°	11286.3	11144.5	10698.7	9574.1	7785.9	5992.7	5065.7	5800.2	6271.3	6458.7
37.5°	11899.3	11960.1	11701.7	10724.0	9113.2	7026.1	5698.9	5800.2	6362.5	6580.3
40°	12375.5	12557.8	12461.6	12147.5	10430.2	8191.2	6398.0	6159.9	6823.5	7233.8
42.5°	12947.9	12861.8	13429.1	13140.4	12152.6	9660.2	7623.8	7016.0	7912.6	8307.7
45°	13251.8	13581.1	14011.7	14381.5	13748.3	11494.0	9224.6	8530.6	9579.2	10080.7
47.5°	14031.9	14163.6	14862.7	15328.7	15045.1	13591.2	11656.1	10744.3	11676.4	12466.6
50°	14487.8	14310.5	15288.2	15997.4	16159.5	15328.7	13834.4	13125.2	14168.7	15176.8
52.5°	14087.7	14594.2	15571.9	16843.4	17294.2	16878.8	16392.5	16083.5	16818.1	17750.1
55°	12684.5	13028.9	15409.8	17770.4	19224.3	19031.8	19482.6	19280.0	20019.6	21007.4
57.5°	11554.8	11985.4	14077.5	18251.6	21022.6	21589.9	22157.3	22030.6	22922.2	24062.0
60°	10850.7	11098.9	13115.0	18130.1	22086.4	24234.2	25515.8	24624.3	26078.1	26949.4
62.5°	9629.9	9786.9	11711.8	16519.2	22405.5	26103.4	28276.6	27065.9	28327.3	29391.1
65°	7720.1	8145.6	9736.2	14107.9	20298.2	26447.9	29999.0	28575.5	29796.3	30495.4
66°	7026.1	7335.1	8794.0	12831.4	19097.6	25875.5	29710.2	28889.6	30009.1	30647.4
67.5°	5830.6	6099.1	7259.1	11012.8	16640.8	24614.1	29912.8	28676.8	30171.2	29781.1
70°	3860.0	4032.3	4964.4	7446.5	11590.3	20136.1	27744.7	27015.3	26523.9	25059.9
72.5°	1803.4	2051.6	3100.2	4513.5	6798.1	14087.7	22623.3	21645.6	18601.2	16260.8
75°	815.6	927.0	1702.1	2588.6	3049.5	7299.6	14594.2	13180.9	9260.1	7689.7
77.5°	440.7	501.5	830.8	1231.0	1109.4	2558.2	7223.7	6007.9	2917.8	2137.7
80°	339.4	400.2	694.0	704.1	410.3	663.6	2684.8	1859.1	729.5	552.2
82.5°	177.3	253.3	547.1	455.9	207.7	268.5	830.8	516.7	228.0	182.4
85°	70.9	111.4	309.0	303.9	121.6	91.2	233.0	157.0	91.2	76.0
87.5°	5.1	5.1	167.2	116.5	76.0	25.3	35.5	35.5	45.6	40.5
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°
5369.6	0°	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6	5369.6
5410.1	2.5°	5501.3	5562.1	5572.2	5739.4	5774.9	5739.4	5830.6	5815.4	5855.9	5825.5
5501.3	5°	5628.0	5714.1	5881.3	6007.9	6007.9	5906.6	5825.5	5719.2	5562.1	5521.6
5678.6	7.5°	5845.8	6119.3	6271.3	6190.3	6028.2	5648.2	5121.4	4736.4	4412.2	4290.6
5906.6	10°	6230.8	6382.8	6560.1	6230.8	5557.0	4751.6	3865.1	3282.6	2826.6	2725.3
6175.1	12.5°	6479.0	6722.2	6823.5	6007.9	4685.8	3485.2	2522.7	1864.2	1545.0	1301.9
6458.7	15°	6803.2	7081.8	6874.1	5405.1	3692.9	2284.6	1306.9	815.6	663.6	623.1
6651.2	17.5°	7026.1	7330.0	6666.4	4655.4	2619.0	1215.8	648.4	562.3	552.2	557.2
6858.9	20°	7416.2	7598.5	6352.4	3784.1	1565.3	623.1	521.8	501.5	491.4	506.6
7000.8	22.5°	7563.1	7730.2	5840.7	2740.5	704.1	415.4	390.1	374.9	385.0	379.9
7086.9	25°	7552.9	7639.0	4999.8	1570.4	207.7	162.1	146.9	146.9	136.8	141.8
6945.0	27.5°	7628.9	7416.2	4057.6	466.0	0.0	0.0	0.0	0.0	0.0	0.0
6975.4	30°	7669.4	7056.5	2887.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7152.7	32.5°	7689.7	6869.1	1859.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7406.0	35°	7846.7	6494.2	795.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7816.3	37.5°	7953.1	6013.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8586.3	40°	8393.8	5861.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9741.3	42.5°	8966.3	5577.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11458.6	45°	9761.6	5156.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13424.0	47.5°	10815.2	4908.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15262.9	50°	11600.4	4518.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17334.8	52.5°	12598.3	4285.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19756.1	55°	13783.7	4295.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21807.7	57.5°	14862.7	4224.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23413.6	60°	15414.9	3611.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24568.5	62.5°	15298.4	2922.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24918.1	65°	14893.1	2294.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24381.1	66°	14614.5	2031.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23661.8	67.5°	13768.5	1626.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18499.9	70°	10957.1	1114.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11671.3	72.5°	6970.4	683.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5111.3	75°	3211.6	314.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1484.2	77.5°	1008.1	192.5	40.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
354.6	80°	263.4	121.6	40.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0
152.0	82.5°	136.8	86.1	35.5	15.2	10.1	0.0	0.0	0.0	0.0	0.0
70.9	85°	86.1	35.5	15.2	10.1	10.1	0.0	0.0	0.0	0.0	0.0
50.7	87.5°	76.0	20.3	10.1	10.1	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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