

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: P575144

Luminaire Tested: **EPH-VN-06-750-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575144
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-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

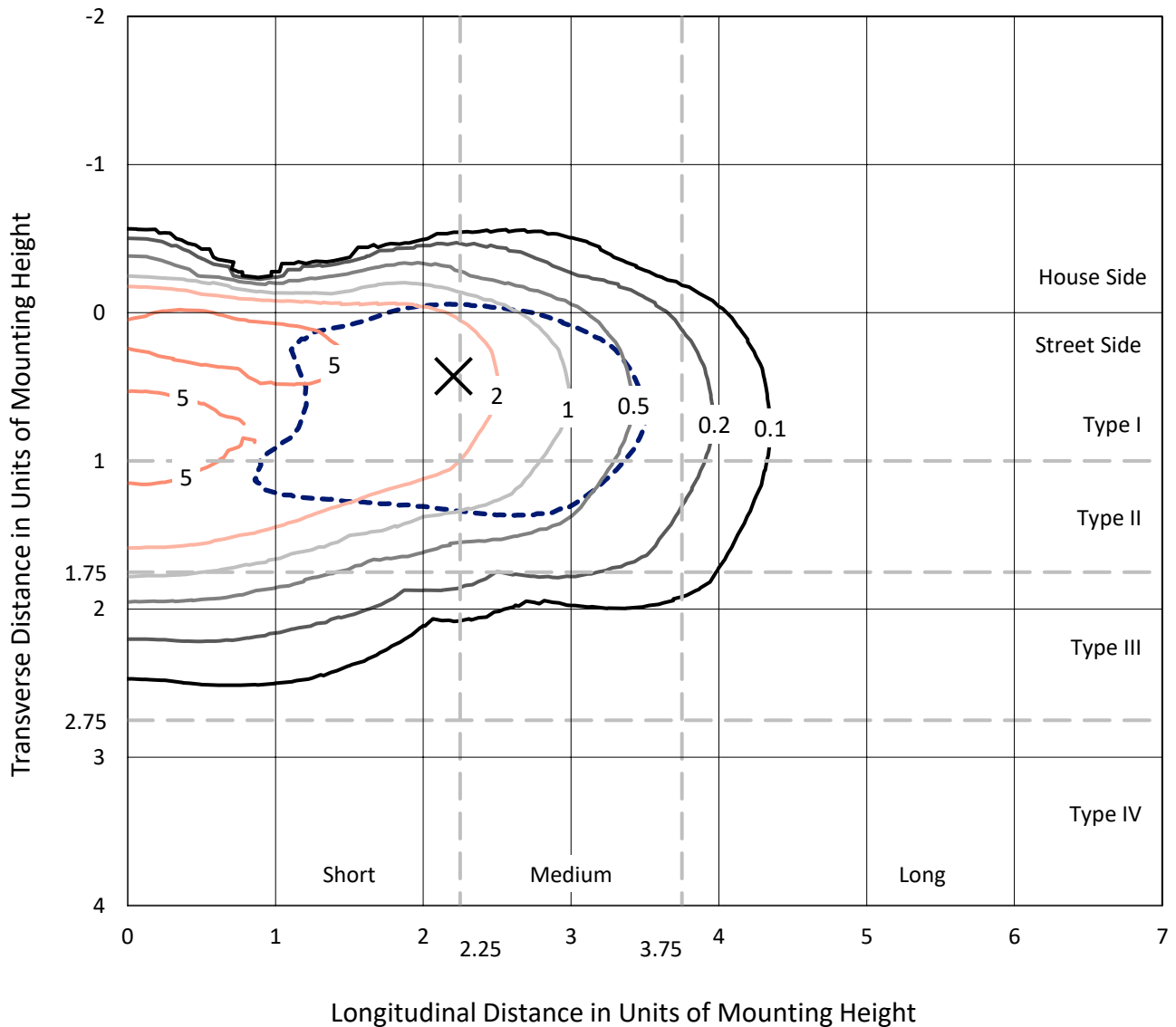
Lumens per Lamp: N/A
Luminaire Lumens: 33680.2 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

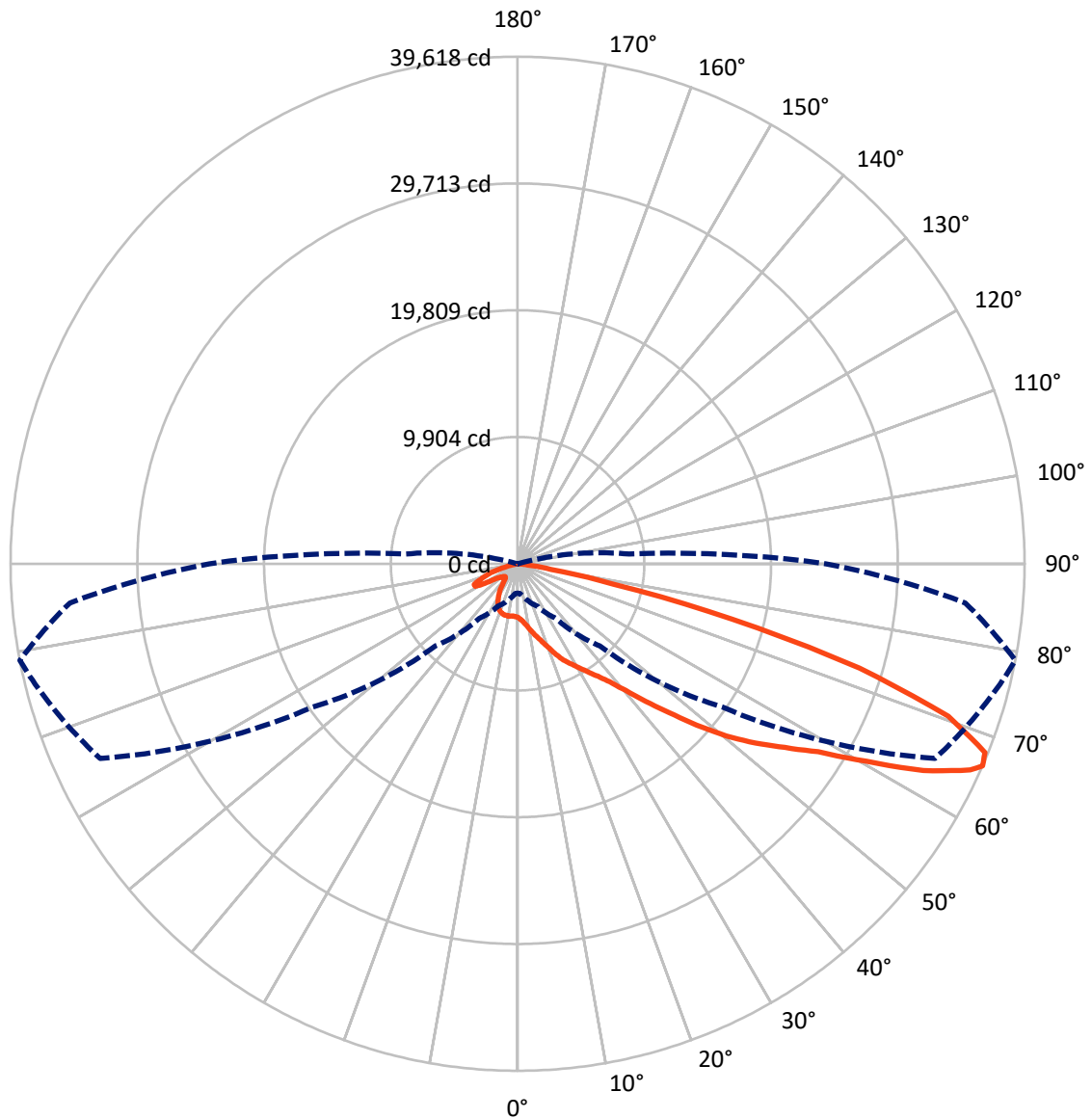
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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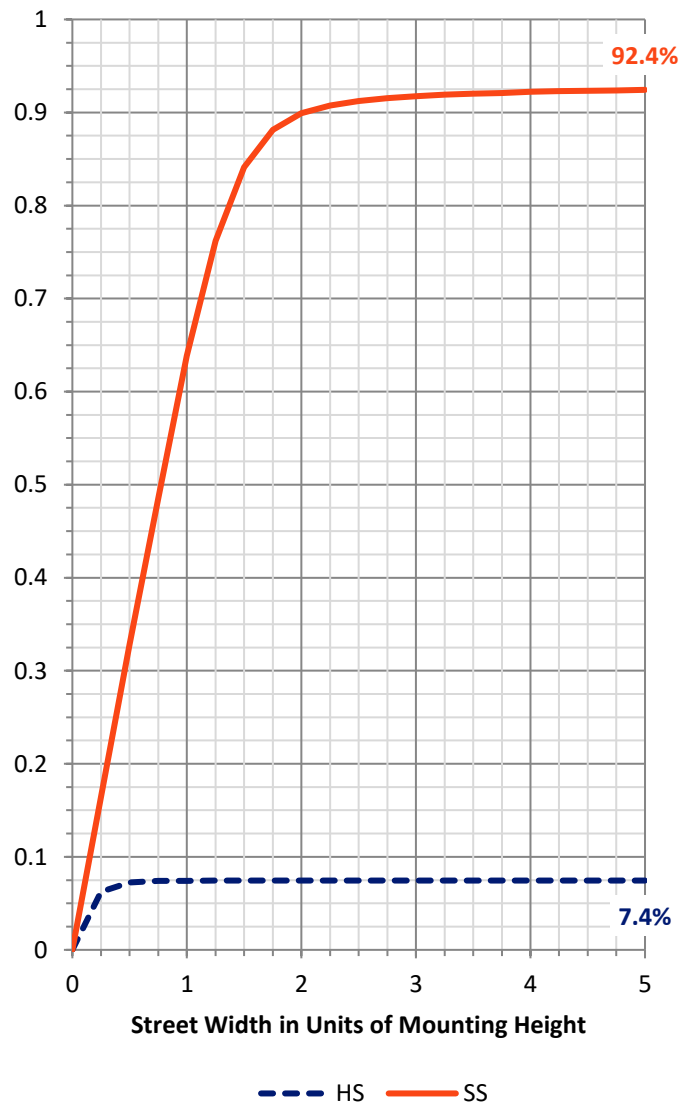
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2528.9	0.0	2528.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	31151.3	0.0	31151.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	33680.2	0.0	33680.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.3	1.2
10°-20°	1090.6	3.2
20°-30°	1811.8	5.4
30°-40°	3112.0	9.2
40°-50°	5637.7	16.7
50°-60°	8911.6	26.5
60°-70°	9068.2	26.9
70°-80°	3458.2	10.3
80°-90°	193.9	0.6
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°	33680.2	100.0
0°-180°	33680.2	100.0

Coefficient of Utilization

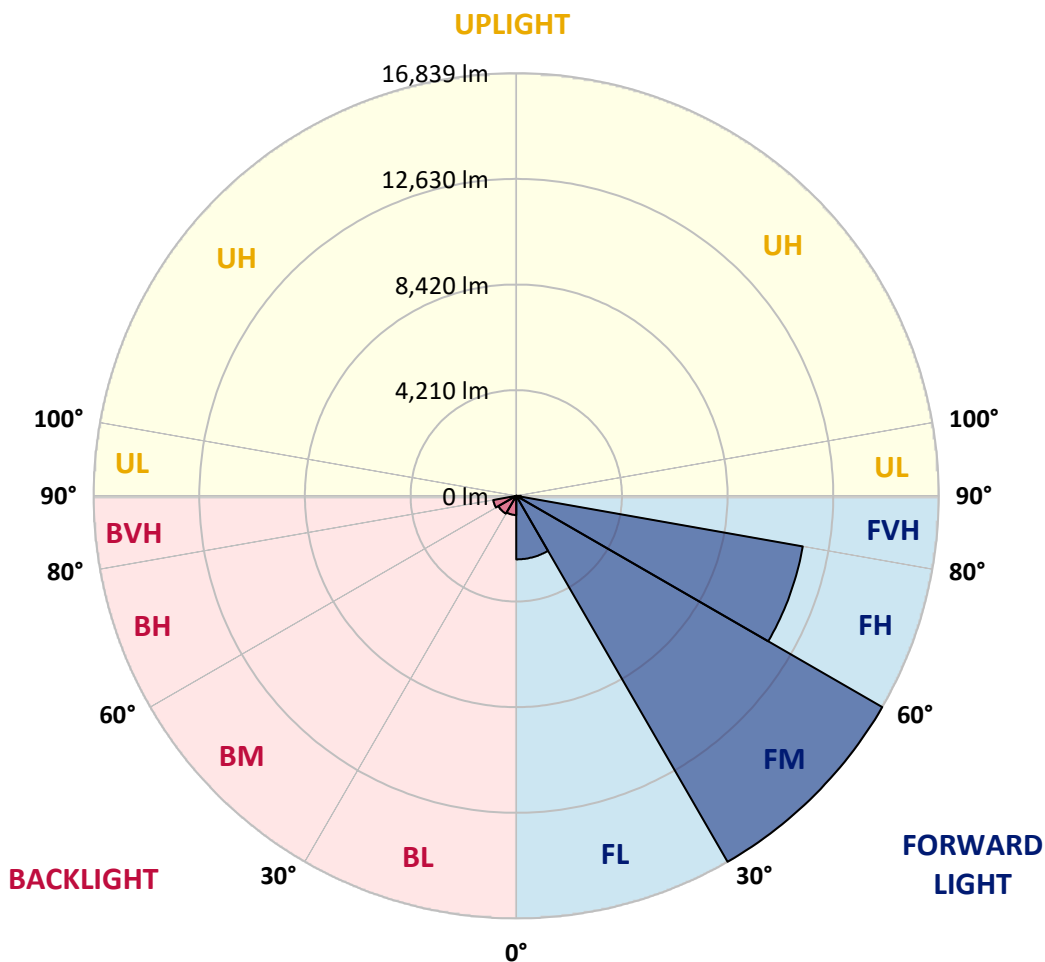


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2533.9	7.5			
FM (30°-60°)	16839.4	50.0			
FH (60°-80°)	11594.1	34.4			G4/12000
FVH (80°-90°)	184.0	0.5			G2/225
BL (0°-30°)	764.8	2.3	B2/1000		
BM (30°-60°)	821.9	2.4	B1/1000		
BH (60°-80°)	932.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.9	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2
2.5°	4745.8	4740.6	4719.8	4683.5	4636.8	4621.2	4553.7	4460.2	4408.3	4351.2
5°	5072.9	5047.0	5109.3	5083.3	5093.7	4969.1	4886.0	4818.5	4621.2	4543.3
7.5°	5145.6	5171.6	5166.4	5207.9	5249.5	5296.2	5239.1	5140.4	4943.1	4828.9
10°	5145.6	5135.2	5176.8	5233.9	5353.3	5457.2	5612.9	5483.1	5332.5	5197.5
12.5°	5052.2	5036.6	5078.1	5197.5	5410.4	5623.3	5794.7	5919.3	5706.4	5597.4
15°	4766.6	4751.0	4922.3	5135.2	5415.6	5763.5	6121.8	6324.3	6178.9	6007.5
17.5°	4413.5	4434.3	4616.0	4969.1	5415.6	5831.0	6287.9	6729.3	6708.5	6490.4
20°	4294.1	4309.7	4491.4	4745.8	5254.7	5877.7	6547.6	7170.6	7295.3	7035.6
22.5°	4522.5	4507.0	4522.5	4678.3	5145.6	5836.2	6718.9	7674.3	7897.6	7695.1
25°	5301.4	5291.0	5161.2	4922.3	5083.3	5742.7	6807.2	8006.6	8520.6	8333.7
27.5°	6443.7	6402.2	6199.7	5701.2	5374.1	5799.9	6952.6	8328.5	9065.8	8853.0
30°	7669.1	7570.4	7305.6	6682.6	6127.0	6012.7	7035.6	8567.4	9673.3	9403.3
32.5°	8515.5	8645.3	8562.2	7928.7	7077.2	6506.0	7170.6	8868.5	10234.1	10057.6
35°	9823.9	9974.5	9626.6	9065.8	8209.1	7290.1	7456.2	9112.6	11096.1	10800.1
37.5°	11475.1	11589.3	11340.1	10275.7	9372.2	8255.8	8043.0	9621.4	11838.6	11698.4
40°	12305.9	12856.3	12503.2	11542.6	10571.6	9605.8	9013.9	10218.5	13131.5	13017.2
42.5°	13453.4	13728.6	13546.8	12835.5	11823.0	11049.3	10213.4	11381.6	14699.5	14699.5
45°	14668.4	14678.8	14668.4	14086.8	13188.6	12788.8	11833.4	12840.7	16387.1	16574.0
47.5°	15665.3	15976.9	15950.9	15603.0	14907.2	14756.7	13453.4	14502.2	18505.5	18832.7
50°	16179.4	16527.3	16631.1	16812.8	16781.7	17098.4	15224.0	16428.6	20333.2	21138.1
52.5°	16039.2	16065.1	16703.8	17420.3	18562.7	19450.5	17358.0	18614.6	22472.5	23266.9
55°	14891.7	14793.0	16106.7	16927.1	19289.6	20888.8	20312.5	21340.6	24139.2	25349.1
57.5°	12373.4	12399.3	13614.3	15281.1	18749.6	21460.0	23469.4	24902.5	26475.8	27696.0
60°	8541.4	8510.3	9870.7	11797.0	15577.1	20395.6	25286.7	29518.5	29601.6	31330.6
62.5°	4802.9	4813.3	5846.6	7492.6	10898.7	16667.4	25198.5	34420.1	34067.0	35583.2
65°	2720.8	2788.3	3499.6	4439.5	6526.8	11189.5	21672.9	36372.4	37509.5	38859.5
66°	2300.2	2346.9	2954.4	3665.8	5207.9	9076.2	19507.7	35993.4	38589.5	39617.6
67.5°	1781.0	1843.3	2352.1	2907.7	3821.6	6282.7	15701.7	34108.5	38786.9	39389.2
70°	1220.2	1261.7	1651.2	2206.7	2611.8	3214.1	9387.8	28199.7	35193.8	35702.6
72.5°	856.7	877.5	1157.9	1671.9	2009.4	1838.1	4657.5	20063.2	26932.7	27924.5
75°	617.9	638.7	794.4	1199.4	1568.1	1204.6	2134.1	12814.7	16516.9	17295.7
77.5°	446.5	472.5	540.0	773.7	1137.1	846.4	1048.9	6692.9	7788.5	7653.5
80°	270.0	296.0	399.8	498.5	830.8	597.1	576.4	2793.5	2762.3	2622.1
82.5°	124.6	145.4	212.9	337.5	581.5	415.4	275.2	996.9	872.3	799.6
85°	36.3	46.7	124.6	254.4	296.0	202.5	166.2	342.7	358.3	306.3
87.5°	0.0	5.2	57.1	62.3	88.3	67.5	62.3	88.3	166.2	135.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4190.2	0°	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2	4190.2
4325.2	2.5°	4231.8	4195.4	4107.1	3972.1	3852.7	3790.4	3702.1	3624.3	3582.7	3577.5
4418.7	5°	4335.6	4237.0	4024.1	3780.0	3598.3	3401.0	3266.0	3167.3	3073.9	2985.6
4693.9	7.5°	4475.8	4320.0	3972.1	3655.4	3260.8	3006.4	2767.5	2627.3	2544.3	2466.4
4953.5	10°	4693.9	4496.6	3935.8	3364.6	2912.9	2539.1	2295.0	2092.5	1978.3	1843.3
5280.6	12.5°	4989.8	4636.8	3800.8	3099.8	2518.3	2123.7	1775.8	1448.7	1266.9	1126.7
5654.5	15°	5285.8	4823.7	3676.2	2777.9	2160.0	1640.8	1131.9	908.7	856.7	825.6
6121.8	17.5°	5576.6	4974.3	3484.1	2450.8	1749.8	1043.7	825.6	778.9	752.9	721.7
6552.7	20°	5929.7	5072.9	3245.2	2149.6	1204.6	773.7	706.2	675.0	633.5	591.9
7118.7	22.5°	6272.4	5156.0	2970.0	1765.4	810.0	669.8	591.9	550.4	514.0	472.5
7575.6	25°	6615.1	5182.0	2611.8	1266.9	654.2	534.8	462.1	405.0	368.7	332.3
7985.8	27.5°	6848.7	5021.0	2274.2	810.0	524.4	405.0	321.9	275.2	244.0	207.7
8344.1	30°	6983.7	4725.0	1910.8	571.2	394.6	275.2	192.1	145.4	114.2	88.3
8956.8	32.5°	7118.7	4486.2	1500.6	436.2	259.6	145.4	72.7	26.0	0.0	0.0
9528.0	35°	7388.7	4216.2	1007.3	244.0	88.3	5.2	0.0	0.0	0.0	0.0
10260.1	37.5°	7560.1	3842.3	462.1	36.3	0.0	0.0	0.0	0.0	0.0	0.0
11272.6	40°	7991.0	3655.4	114.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12643.4	42.5°	8692.0	3525.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14284.2	45°	9460.5	3473.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15883.4	47.5°	10483.4	3613.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17939.6	50°	11563.4	3992.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19528.4	52.5°	12747.2	4351.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21169.2	55°	13780.5	4782.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23474.6	57.5°	15680.9	5799.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27612.9	60°	19092.3	7798.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32317.2	62.5°	22934.6	9283.9	57.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35173.0	65°	24341.7	9247.6	98.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
35115.9	66°	24092.5	8738.7	98.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
34124.1	67.5°	22799.6	7762.6	88.3	10.4	0.0	0.0	0.0	0.0	0.0	0.0
29658.7	70°	19580.4	6412.6	88.3	15.6	0.0	0.0	0.0	0.0	0.0	0.0
23069.6	72.5°	14928.0	4995.0	83.1	20.8	5.2	0.0	0.0	0.0	0.0	0.0
13894.7	75°	9008.7	2658.5	67.5	26.0	10.4	0.0	0.0	0.0	0.0	0.0
5976.4	77.5°	3587.9	934.6	51.9	20.8	10.4	0.0	0.0	0.0	0.0	0.0
1879.6	80°	971.0	280.4	31.2	20.8	15.6	5.2	0.0	0.0	0.0	0.0
529.6	82.5°	254.4	103.8	26.0	20.8	10.4	5.2	0.0	0.0	0.0	0.0
176.5	85°	98.7	41.5	20.8	15.6	15.6	10.4	5.2	0.0	0.0	0.0
57.1	87.5°	31.2	15.6	15.6	10.4	10.4	5.2	5.2	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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