

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: P575146

Luminaire Tested: **EPH-VN-08-750-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575146
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

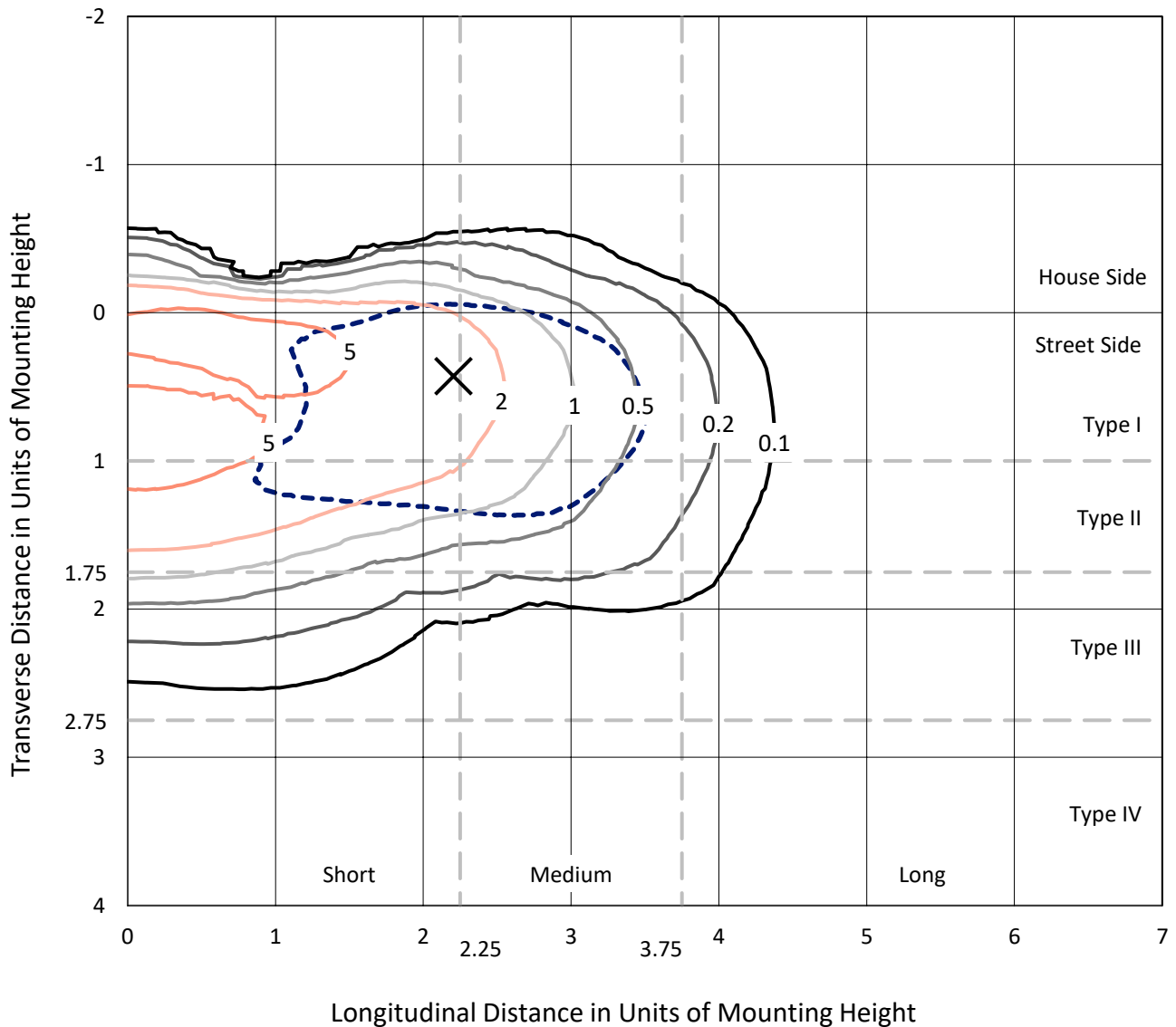
Lumens per Lamp: N/A
Luminaire Lumens: 35484.6 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

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

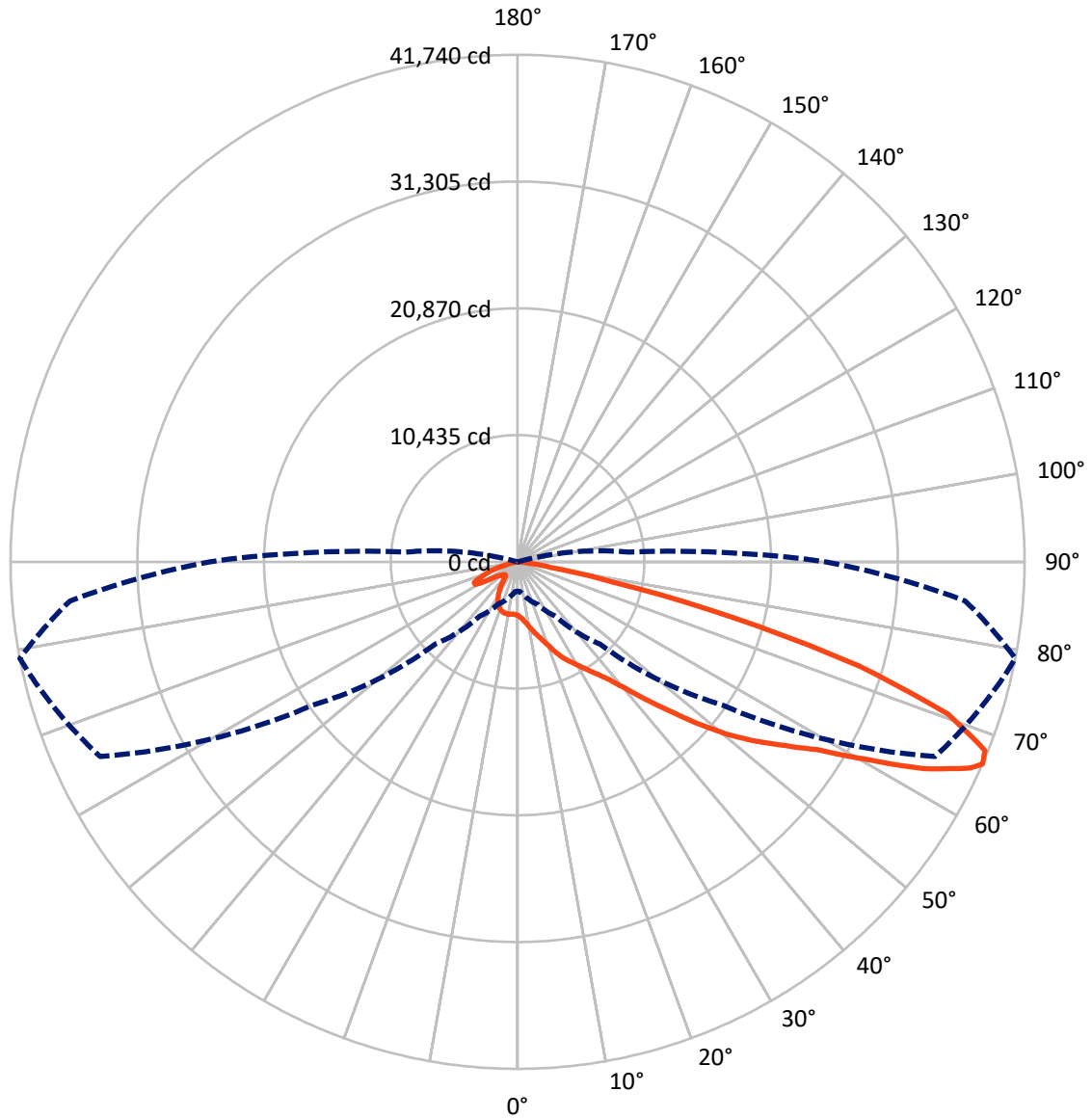
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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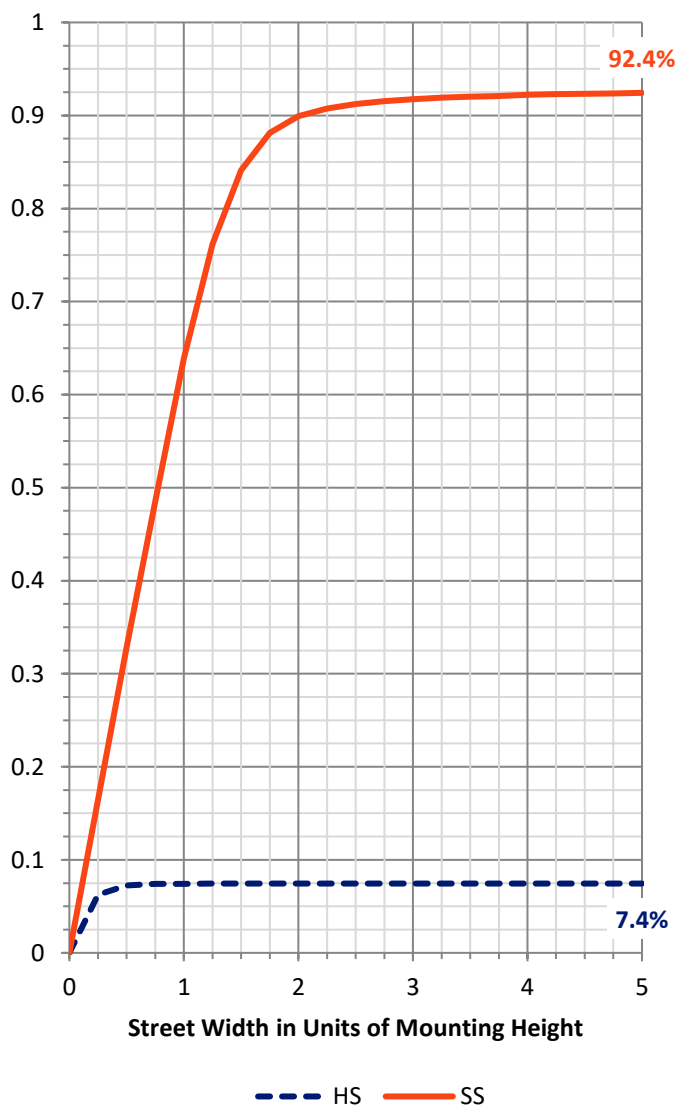
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2664.4	0.0	2664.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	32820.2	0.0	32820.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	35484.6	0.0	35484.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	1.2
10°-20°	1149.0	3.2
20°-30°	1908.9	5.4
30°-40°	3278.7	9.2
40°-50°	5939.8	16.7
50°-60°	9389.0	26.5
60°-70°	9554.0	26.9
70°-80°	3643.4	10.3
80°-90°	204.3	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°	35484.6	100.0
0°-180°	35484.6	100.0

Coefficient of Utilization

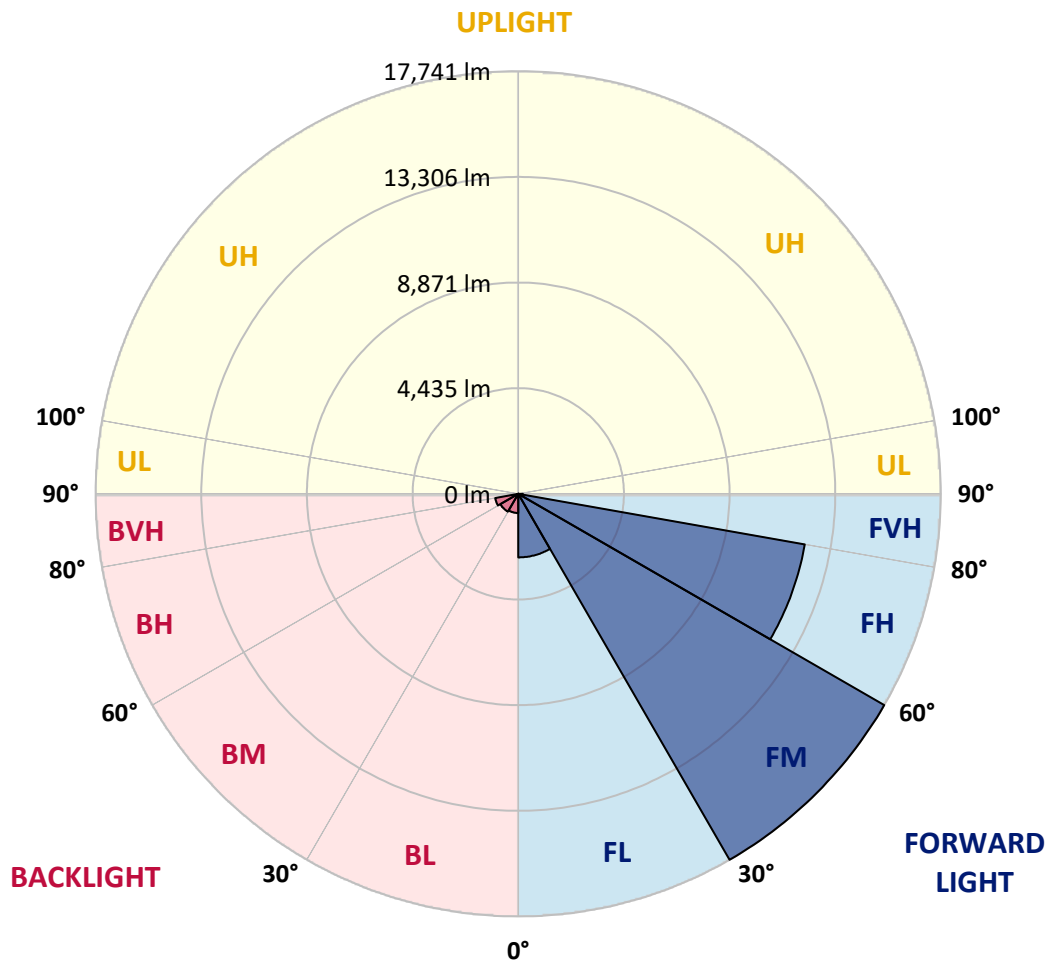


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2669.6	7.5			
FM (30°-60°)	17741.5	50.0			
FH (60°-80°)	12215.3	34.4			G5
FVH (80°-90°)	193.8	0.5			G2/225
BL (0°-30°)	805.8	2.3	B2/1000		
BM (30°-60°)	866.0	2.4	B1/1000		
BH (60°-80°)	982.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7
2.5°	5000.1	4994.6	4972.7	4934.4	4885.2	4868.8	4797.6	4699.2	4644.5	4584.3
5°	5344.7	5317.3	5383.0	5355.6	5366.6	5235.3	5147.8	5076.6	4868.8	4786.7
7.5°	5421.3	5448.6	5443.2	5486.9	5530.7	5579.9	5519.8	5415.8	5207.9	5087.6
10°	5421.3	5410.3	5454.1	5514.3	5640.1	5749.5	5913.6	5776.9	5618.2	5476.0
12.5°	5322.8	5306.4	5350.2	5476.0	5700.3	5924.6	6105.1	6236.4	6012.1	5897.2
15°	5021.9	5005.5	5186.1	5410.3	5705.7	6072.3	6449.7	6663.1	6509.9	6329.4
17.5°	4649.9	4671.8	4863.3	5235.3	5705.7	6143.4	6624.8	7089.8	7067.9	6838.1
20°	4524.1	4540.5	4732.0	5000.1	5536.2	6192.6	6898.3	7554.8	7686.1	7412.6
22.5°	4764.8	4748.4	4764.8	4928.9	5421.3	6148.9	7078.8	8085.4	8320.7	8107.3
25°	5585.4	5574.5	5437.7	5186.1	5355.6	6050.4	7171.8	8435.5	8977.1	8780.2
27.5°	6788.9	6745.1	6531.8	6006.6	5662.0	6110.6	7325.0	8774.7	9551.5	9327.2
30°	8080.0	7976.0	7697.0	7040.6	6455.2	6334.9	7412.6	9026.4	10191.6	9907.1
32.5°	8971.6	9108.4	9020.9	8353.5	7456.3	6854.6	7554.8	9343.6	10782.4	10596.4
35°	10350.2	10508.9	10142.3	9551.5	8648.9	7680.6	7855.7	9600.8	11690.5	11378.7
37.5°	12089.8	12210.2	11947.6	10826.2	9874.3	8698.1	8473.8	10136.9	12472.8	12325.1
40°	12965.1	13545.0	13173.0	12161.0	11138.0	10120.5	9496.8	10766.0	13834.9	13714.6
42.5°	14174.1	14464.0	14272.6	13523.1	12456.4	11641.3	10760.5	11991.4	15487.0	15487.0
45°	15454.2	15465.2	15454.2	14841.5	13895.1	13473.9	12467.3	13528.6	17265.0	17461.9
47.5°	16504.5	16832.8	16805.4	16438.9	15705.9	15547.2	14174.1	15279.2	19496.9	19841.6
50°	17046.1	17412.7	17522.1	17713.5	17680.7	18014.4	16039.6	17308.7	21422.5	22270.5
52.5°	16898.4	16925.8	17598.7	18353.6	19557.1	20492.6	18287.9	19611.8	23676.4	24513.4
55°	15689.4	15585.5	16969.5	17833.9	20323.0	22007.9	21400.7	22483.8	25432.4	26707.1
57.5°	13036.2	13063.6	14343.7	16099.7	19754.0	22609.6	24726.7	26236.6	27894.2	29179.7
60°	8999.0	8966.2	10399.5	12429.0	16411.6	21488.2	26641.4	31099.9	31187.4	33009.1
62.5°	5060.2	5071.2	6159.8	7894.0	11482.6	17560.4	26548.4	36264.1	35892.1	37489.5
65°	2866.6	2937.7	3687.1	4677.3	6876.4	11789.0	22833.9	38321.0	39519.0	40941.3
66°	2423.4	2472.7	3112.7	3862.2	5486.9	9562.5	20552.7	37921.6	40656.9	41740.0
67.5°	1876.4	1942.0	2478.1	3063.5	4026.3	6619.3	16542.8	35935.8	40864.8	41499.3
70°	1285.6	1329.3	1739.6	2325.0	2751.7	3386.3	9890.7	29710.4	37079.2	37615.3
72.5°	902.6	924.5	1219.9	1761.5	2117.1	1936.6	4907.1	21138.1	28375.6	29420.4
75°	651.0	672.9	837.0	1263.7	1652.1	1269.2	2248.4	13501.2	17401.7	18222.3
77.5°	470.5	497.8	568.9	815.1	1198.0	891.7	1105.0	7051.5	8205.8	8063.5
80°	284.5	311.8	421.2	525.2	875.3	629.1	607.2	2943.1	2910.3	2762.6
82.5°	131.3	153.2	224.3	355.6	612.7	437.6	289.9	1050.3	919.0	842.5
85°	38.3	49.2	131.3	268.1	311.8	213.4	175.1	361.1	377.5	322.8
87.5°	0.0	5.5	60.2	65.6	93.0	71.1	65.6	93.0	175.1	142.2
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°
4414.7	0°	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7
4556.9	2.5°	4458.5	4420.2	4327.2	4184.9	4059.1	3993.5	3900.5	3818.4	3774.7	3769.2
4655.4	5°	4567.9	4463.9	4239.7	3982.5	3791.1	3583.2	3441.0	3337.0	3238.5	3145.5
4945.3	7.5°	4715.6	4551.5	4184.9	3851.2	3435.5	3167.4	2915.8	2768.1	2680.6	2598.5
5218.9	10°	4945.3	4737.5	4146.7	3544.9	3069.0	2675.1	2418.0	2204.6	2084.3	1942.0
5563.5	12.5°	5257.2	4885.2	4004.4	3265.9	2653.2	2237.4	1870.9	1526.3	1334.8	1187.1
5957.4	15°	5569.0	5082.1	3873.1	2926.7	2275.7	1728.7	1192.6	957.3	902.6	869.8
6449.7	17.5°	5875.3	5240.8	3670.7	2582.1	1843.6	1099.6	869.8	820.6	793.2	760.4
6903.8	20°	6247.3	5344.7	3419.1	2264.8	1269.2	815.1	744.0	711.2	667.4	623.6
7500.1	22.5°	6608.4	5432.2	3129.1	1860.0	853.4	705.7	623.6	579.9	541.6	497.8
7981.5	25°	6969.4	5459.6	2751.7	1334.8	689.3	563.5	486.9	426.7	388.4	350.1
8413.7	27.5°	7215.6	5290.0	2396.1	853.4	552.5	426.7	339.2	289.9	257.1	218.8
8791.1	30°	7357.8	4978.2	2013.2	601.8	415.8	289.9	202.4	153.2	120.4	93.0
9436.6	32.5°	7500.1	4726.5	1581.0	459.5	273.5	153.2	76.6	27.4	0.0	0.0
10038.4	35°	7784.5	4442.1	1061.3	257.1	93.0	5.5	0.0	0.0	0.0	0.0
10809.7	37.5°	7965.1	4048.2	486.9	38.3	0.0	0.0	0.0	0.0	0.0	0.0
11876.5	40°	8419.1	3851.2	120.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13320.7	42.5°	9157.6	3714.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15049.4	45°	9967.3	3659.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16734.3	47.5°	11045.0	3807.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18900.6	50°	12182.8	4206.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20574.6	52.5°	13430.1	4584.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22303.3	55°	14518.8	5038.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24732.2	57.5°	16521.0	6110.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29092.2	60°	20115.1	8216.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34048.5	62.5°	24163.3	9781.3	60.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37057.3	65°	25645.8	9743.0	103.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0
36997.1	66°	25383.2	9206.9	103.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0
35952.2	67.5°	24021.0	8178.4	93.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0
31247.6	70°	20629.3	6756.1	93.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0
24305.5	72.5°	15727.7	5262.6	87.5	21.9	5.5	0.0	0.0	0.0	0.0	0.0
14639.1	75°	9491.3	2800.9	71.1	27.4	10.9	0.0	0.0	0.0	0.0	0.0
6296.6	77.5°	3780.1	984.7	54.7	21.9	10.9	0.0	0.0	0.0	0.0	0.0
1980.3	80°	1023.0	295.4	32.8	21.9	16.4	5.5	0.0	0.0	0.0	0.0
558.0	82.5°	268.1	109.4	27.4	21.9	10.9	5.5	0.0	0.0	0.0	0.0
186.0	85°	103.9	43.8	21.9	16.4	16.4	10.9	5.5	0.0	0.0	0.0
60.2	87.5°	32.8	16.4	16.4	10.9	10.9	5.5	5.5	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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