

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: P575145

Luminaire Tested: **EPH-VN-07-750-U-T2-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575145
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-750-U-T2-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens and House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

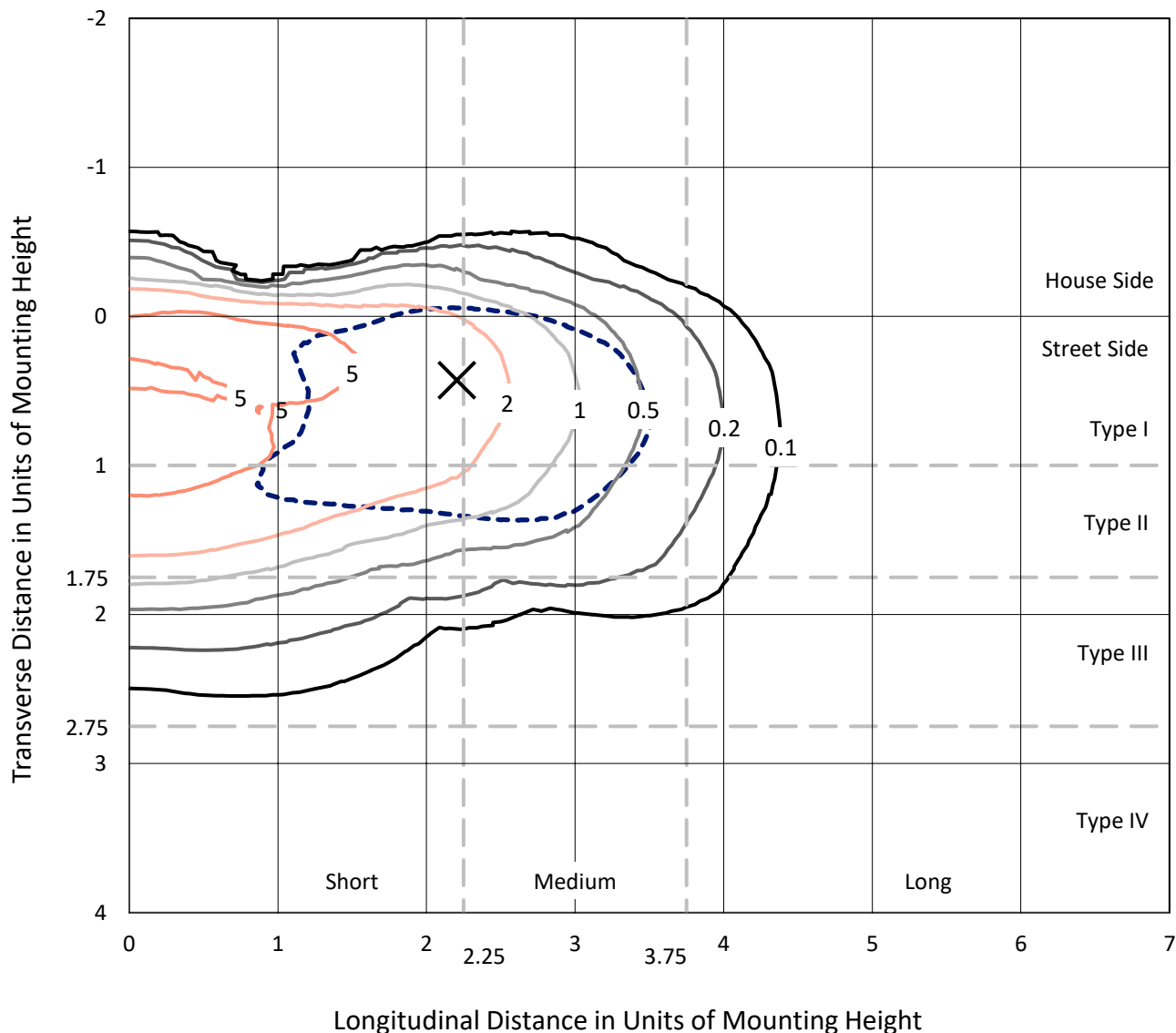
Lumens per Lamp: N/A
Luminaire Lumens: 35932.5 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.5
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

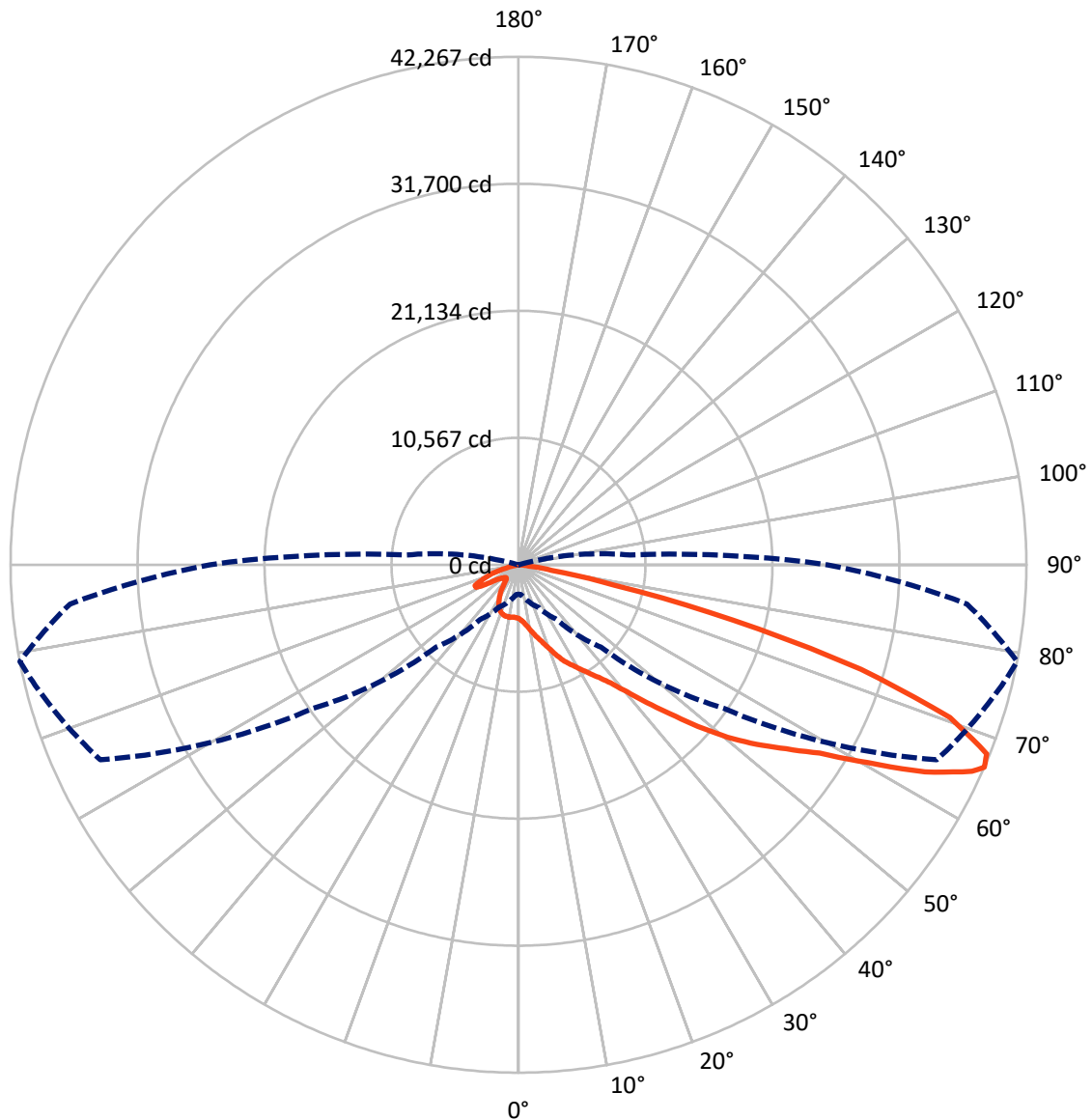
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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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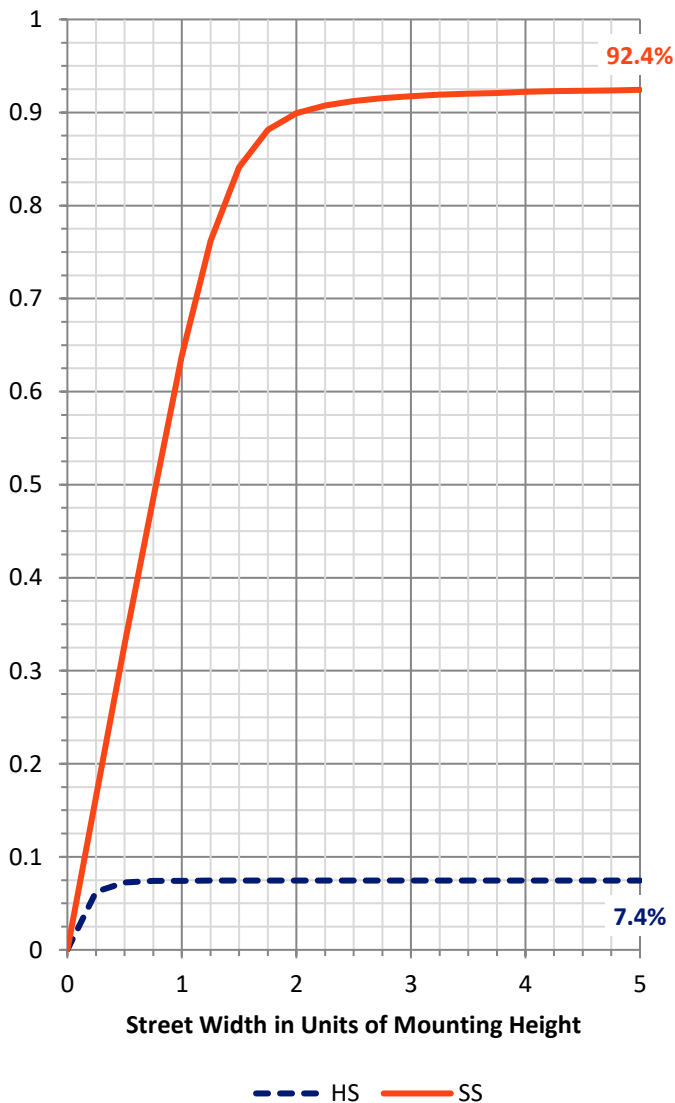
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2698.0	0.0	2698.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	33234.5	0.0	33234.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	35932.5	0.0	35932.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	1.2
10°-20°	1163.6	3.2
20°-30°	1933.0	5.4
30°-40°	3320.1	9.2
40°-50°	6014.7	16.7
50°-60°	9507.5	26.5
60°-70°	9674.6	26.9
70°-80°	3689.4	10.3
80°-90°	206.8	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°	35932.5	100.0
0°-180°	35932.5	100.0

Coefficient of Utilization



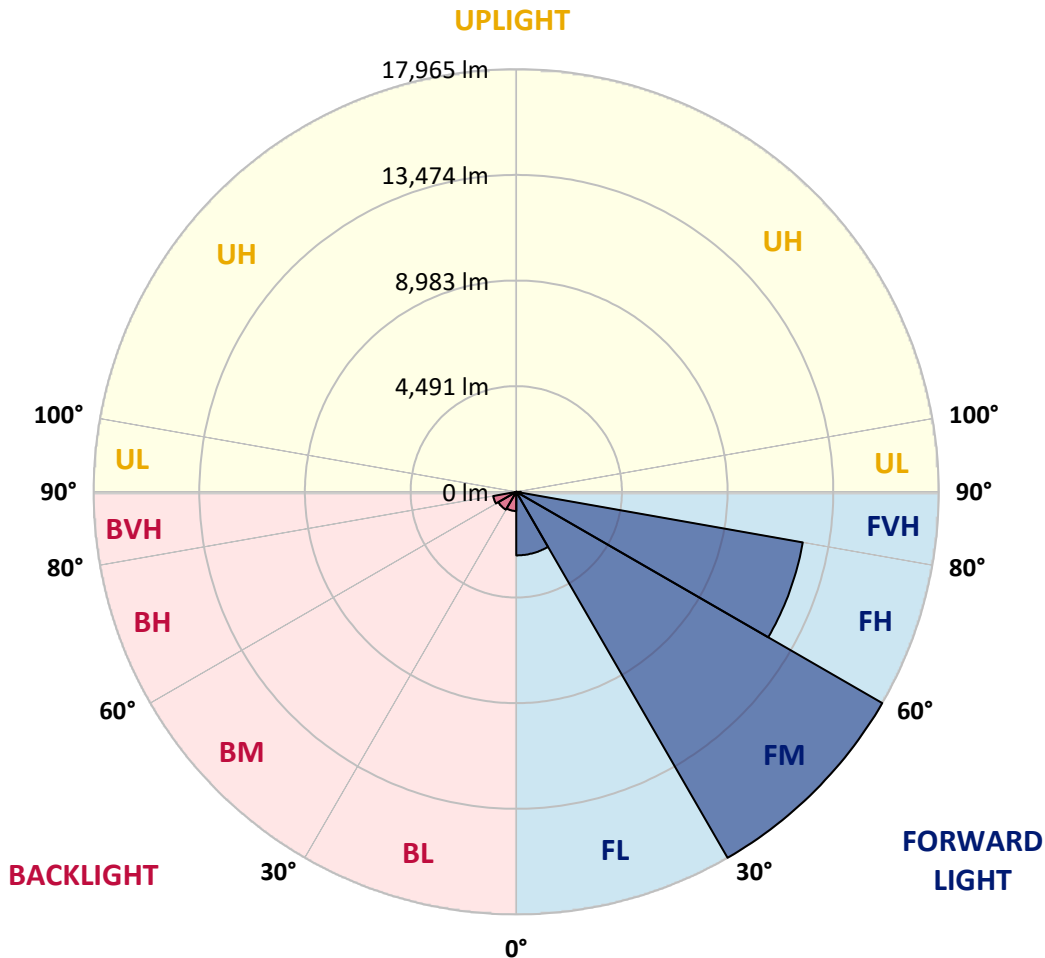
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2703.3	7.5			
FM (30°-60°)	17965.5	50.0			
FH (60°-80°)	12369.5	34.4			G5
FVH (80°-90°)	196.3	0.5			G2/225
BL (0°-30°)	816.0	2.3	B2/1000		
BM (30°-60°)	876.9	2.4	B1/1000		
BH (60°-80°)	994.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.6	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°	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4
2.5°	5063.2	5057.6	5035.5	4996.7	4946.8	4930.2	4858.2	4758.5	4703.1	4642.2
5°	5412.2	5384.5	5450.9	5423.2	5434.3	5301.4	5212.7	5140.7	4930.2	4847.1
7.5°	5489.7	5517.4	5511.9	5556.2	5600.5	5650.4	5589.4	5484.2	5273.7	5151.8
10°	5489.7	5478.6	5523.0	5583.9	5711.3	5822.1	5988.3	5849.8	5689.1	5545.1
12.5°	5390.0	5373.4	5417.7	5545.1	5772.2	5999.4	6182.2	6315.1	6088.0	5971.7
15°	5085.3	5068.7	5251.5	5478.6	5777.8	6148.9	6531.2	6747.2	6592.1	6409.3
17.5°	4708.6	4730.8	4924.7	5301.4	5777.8	6220.9	6708.4	7179.3	7157.1	6924.5
20°	4581.2	4597.9	4791.7	5063.2	5606.1	6270.8	6985.4	7650.2	7783.1	7506.1
22.5°	4825.0	4808.4	4825.0	4991.2	5489.7	6226.5	7168.2	8187.5	8425.7	8209.7
25°	5655.9	5644.8	5506.3	5251.5	5423.2	6126.8	7262.4	8542.0	9090.5	8891.0
27.5°	6874.6	6830.3	6614.3	6082.5	5733.5	6187.7	7417.5	8885.5	9672.1	9445.0
30°	8182.0	8076.7	7794.2	7129.4	6536.7	6414.8	7506.1	9140.3	10320.2	10032.2
32.5°	9084.9	9223.4	9134.8	8458.9	7550.4	6941.1	7650.2	9461.6	10918.5	10730.2
35°	10480.9	10641.5	10270.4	9672.1	8758.1	7777.6	7954.8	9722.0	11838.1	11522.3
37.5°	12242.5	12364.3	12098.4	10962.8	9998.9	8807.9	8580.8	10264.8	12630.2	12480.7
40°	13128.8	13716.0	13339.3	12314.5	11278.6	10248.2	9616.7	10901.9	14009.6	13887.7
42.5°	14353.1	14646.6	14452.8	13693.8	12613.6	11788.2	10896.4	12142.8	15682.6	15682.6
45°	15649.3	15660.4	15649.3	15028.9	14070.5	13644.0	12624.7	13699.4	17482.9	17682.3
47.5°	16712.9	17045.3	17017.6	16646.4	15904.1	15743.5	14353.1	15472.0	19743.1	20092.1
50°	17261.3	17632.5	17743.3	17937.2	17903.9	18241.8	16242.0	17527.2	21693.0	22551.6
52.5°	17111.8	17139.5	17820.8	18585.3	19804.0	20751.3	18518.8	19859.4	23975.3	24822.9
55°	15887.5	15782.3	17183.8	18059.0	20579.5	22285.7	21670.8	22767.7	25753.5	27044.2
57.5°	13200.8	13228.5	14524.8	16303.0	20003.4	22895.1	25038.9	26567.8	28246.3	29548.1
60°	9112.6	9079.4	10530.7	12585.9	16618.7	21759.5	26977.8	31492.5	31581.1	33425.8
62.5°	5124.1	5135.2	6237.6	7993.6	11627.6	17782.1	26883.6	36721.9	36345.2	37962.7
65°	2902.7	2974.8	3733.7	4736.3	6963.3	11937.8	23122.2	38804.8	40017.9	41458.2
66°	2454.0	2503.9	3152.0	3910.9	5556.2	9683.2	20812.2	38400.4	41170.2	42267.0
67.5°	1900.1	1966.6	2509.4	3102.2	4077.1	6702.9	16751.7	36389.5	41380.7	42023.3
70°	1301.8	1346.1	1761.6	2354.3	2786.4	3429.0	10015.6	30085.5	37547.3	38090.2
72.5°	914.0	936.2	1235.3	1783.7	2143.8	1961.0	4969.0	21404.9	28733.8	29791.9
75°	659.2	681.4	847.6	1279.6	1673.0	1285.2	2276.8	13671.7	17621.4	18452.3
77.5°	476.4	504.1	576.1	825.4	1213.2	903.0	1119.0	7140.5	8309.4	8165.3
80°	288.1	315.8	426.5	531.8	886.3	637.1	614.9	2980.3	2947.1	2797.5
82.5°	132.9	155.1	227.1	360.1	620.4	443.2	293.6	1063.6	930.6	853.1
85°	38.8	49.9	132.9	271.4	315.8	216.0	177.3	365.6	382.2	326.8
87.5°	0.0	5.5	60.9	66.5	94.2	72.0	66.5	94.2	177.3	144.0
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°
4470.4	0°	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4
4614.5	2.5°	4514.8	4476.0	4381.8	4237.8	4110.4	4043.9	3949.7	3866.6	3822.3	3816.8
4714.2	5°	4625.5	4520.3	4293.2	4032.8	3838.9	3628.4	3484.4	3379.1	3279.4	3185.3
5007.8	7.5°	4775.1	4608.9	4237.8	3899.9	3478.9	3207.4	2952.6	2803.0	2714.4	2631.3
5284.8	10°	5007.8	4797.3	4199.0	3589.6	3107.7	2708.9	2448.5	2232.5	2110.6	1966.6
5633.8	12.5°	5323.5	4946.8	4055.0	3307.1	2686.7	2265.7	1894.5	1545.5	1351.7	1202.1
6032.6	15°	5639.3	5146.3	3922.0	2963.7	2304.5	1750.5	1207.6	969.4	914.0	880.8
6531.2	17.5°	5949.5	5306.9	3717.1	2614.7	1866.8	1113.5	880.8	830.9	803.2	770.0
6990.9	20°	6326.2	5412.2	3462.2	2293.4	1285.2	825.4	753.4	720.1	675.8	631.5
7594.8	22.5°	6691.8	5500.8	3168.6	1883.5	864.2	714.6	631.5	587.2	548.4	504.1
8082.2	25°	7057.4	5528.5	2786.4	1351.7	698.0	570.6	493.0	432.1	393.3	354.5
8519.9	27.5°	7306.7	5356.8	2426.3	864.2	559.5	432.1	343.5	293.6	260.4	221.6
8902.1	30°	7450.7	5041.0	2038.6	609.4	421.0	293.6	205.0	155.1	121.9	94.2
9555.8	32.5°	7594.8	4786.2	1600.9	465.3	277.0	155.1	77.6	27.7	0.0	0.0
10165.1	35°	7882.8	4498.1	1074.7	260.4	94.2	5.5	0.0	0.0	0.0	0.0
10946.2	37.5°	8065.6	4099.3	493.0	38.8	0.0	0.0	0.0	0.0	0.0	0.0
12026.4	40°	8525.4	3899.9	121.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13488.9	42.5°	9273.3	3761.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15239.4	45°	10093.1	3706.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16945.6	47.5°	11184.4	3855.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19139.2	50°	12336.6	4259.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20834.4	52.5°	13599.7	4642.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22584.9	55°	14702.0	5102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25044.4	57.5°	16729.5	6187.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29459.5	60°	20369.0	8320.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34478.3	62.5°	24468.3	9904.8	60.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37525.1	65°	25969.6	9866.0	105.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0
37464.2	66°	25703.7	9323.1	105.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0
36406.1	67.5°	24324.3	8281.7	94.2	11.1	0.0	0.0	0.0	0.0	0.0	0.0
31642.1	70°	20889.8	6841.4	94.2	16.6	0.0	0.0	0.0	0.0	0.0	0.0
24612.4	72.5°	15926.3	5329.1	88.6	22.2	5.5	0.0	0.0	0.0	0.0	0.0
14823.9	75°	9611.2	2836.3	72.0	27.7	11.1	0.0	0.0	0.0	0.0	0.0
6376.1	77.5°	3827.8	997.1	55.4	22.2	11.1	0.0	0.0	0.0	0.0	0.0
2005.3	80°	1035.9	299.1	33.2	22.2	16.6	5.5	0.0	0.0	0.0	0.0
565.0	82.5°	271.4	110.8	27.7	22.2	11.1	5.5	0.0	0.0	0.0	0.0
188.3	85°	105.3	44.3	22.2	16.6	16.6	11.1	5.5	0.0	0.0	0.0
60.9	87.5°	33.2	16.6	16.6	11.1	11.1	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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