

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: P575413

Luminaire Tested: **EPH-VN-07-735-U-SL3-HSS**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P575413
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

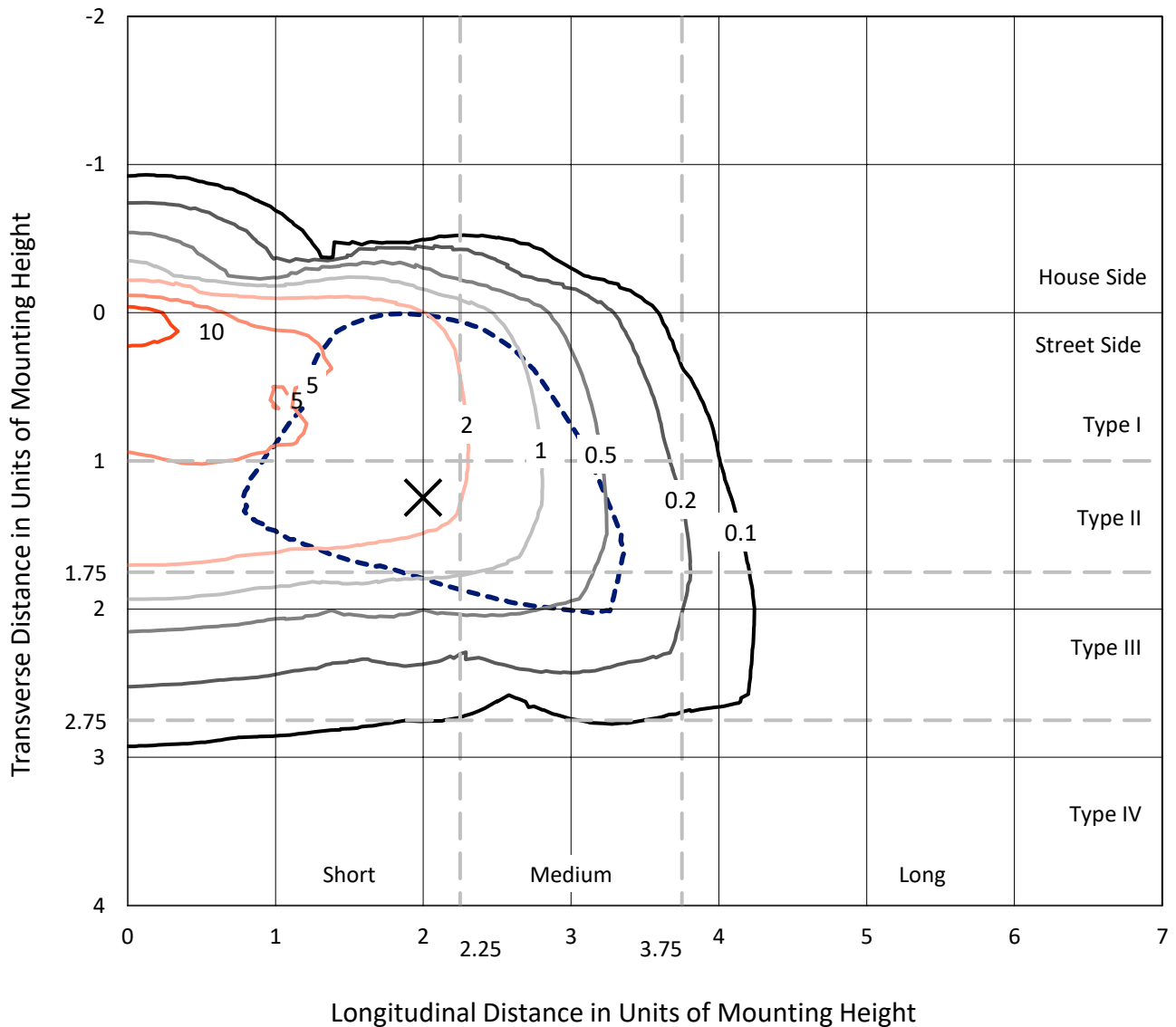
Lumens per Lamp: N/A
Luminaire Lumens: 40235.3 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

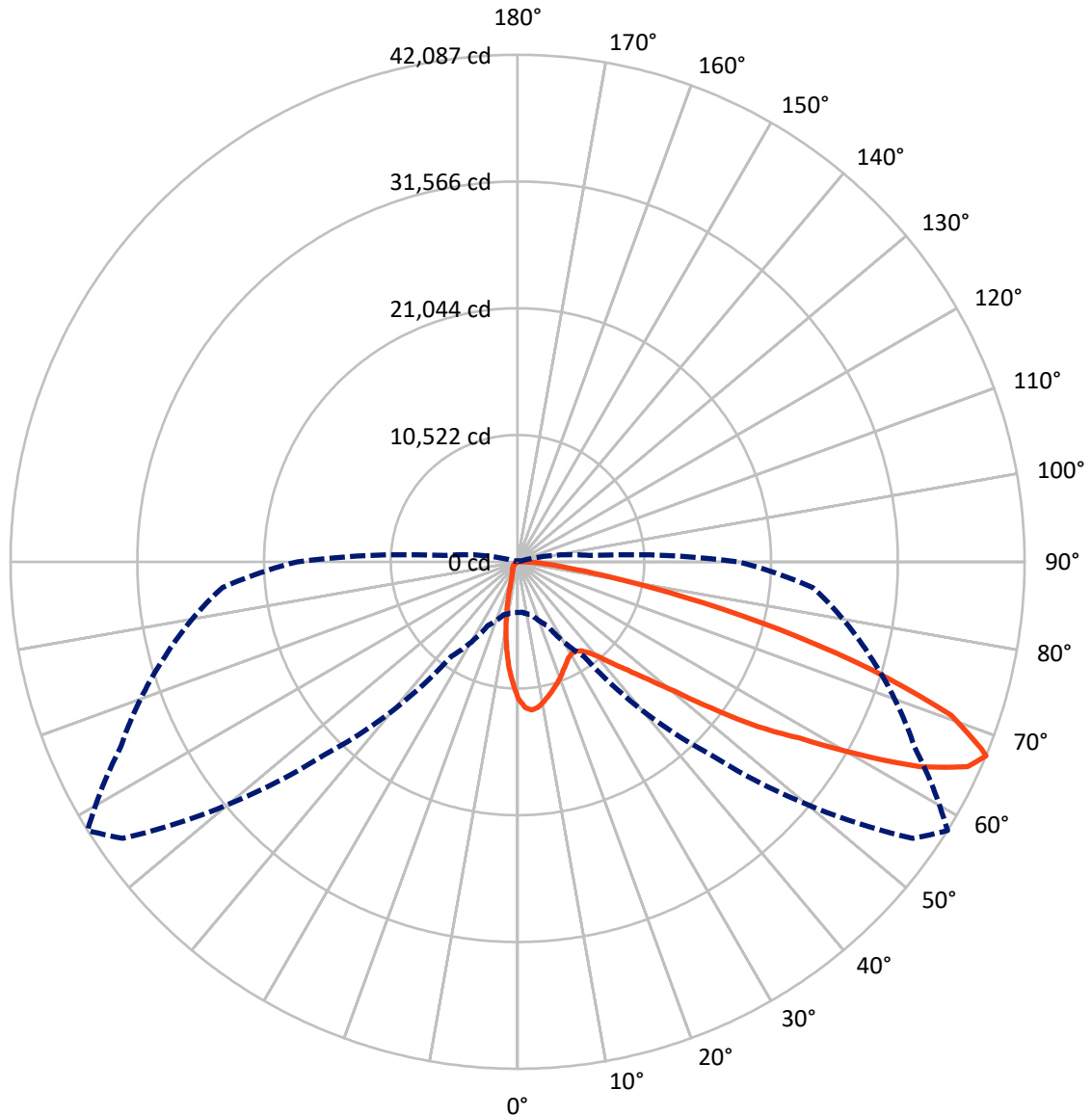
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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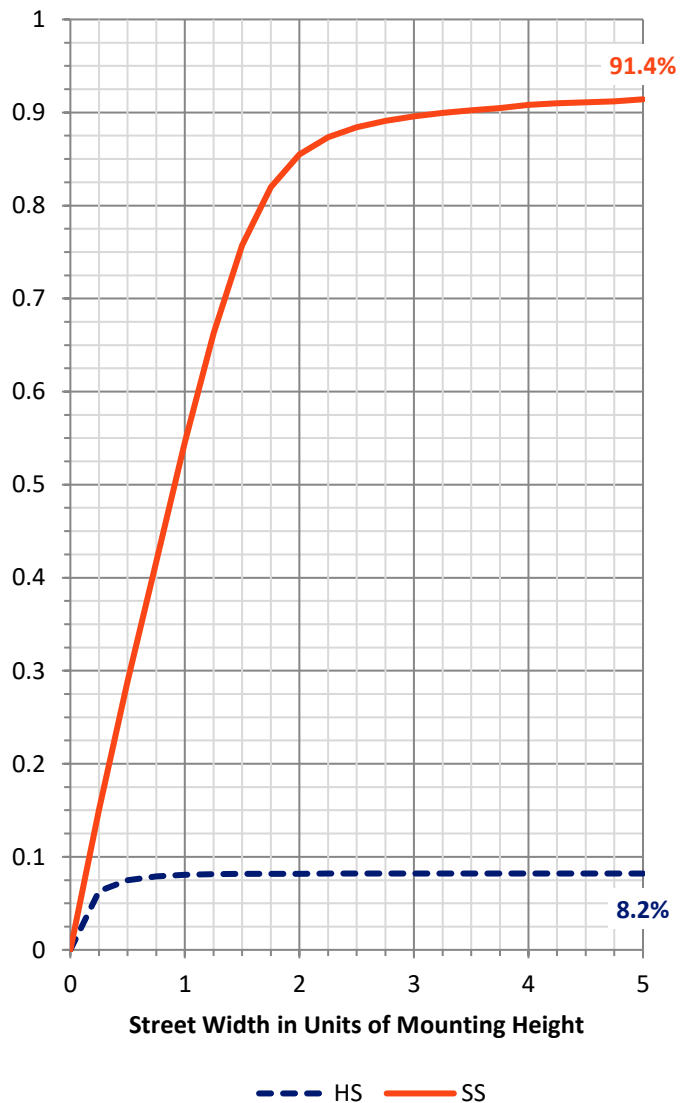
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3325.7	0.0	3325.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	36909.6	0.0	36909.6
	% Fixture	91.7	0.0	91.7
Total	Lumens	40235.3	0.0	40235.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	904.5	2.2
10°-20°	1876.1	4.7
20°-30°	2489.1	6.2
30°-40°	3449.1	8.6
40°-50°	5628.0	14.0
50°-60°	9892.1	24.6
60°-70°	10956.4	27.2
70°-80°	4540.3	11.3
80°-90°	499.8	1.2
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°	40235.3	100.0
0°-180°	40235.3	100.0

Coefficient of Utilization



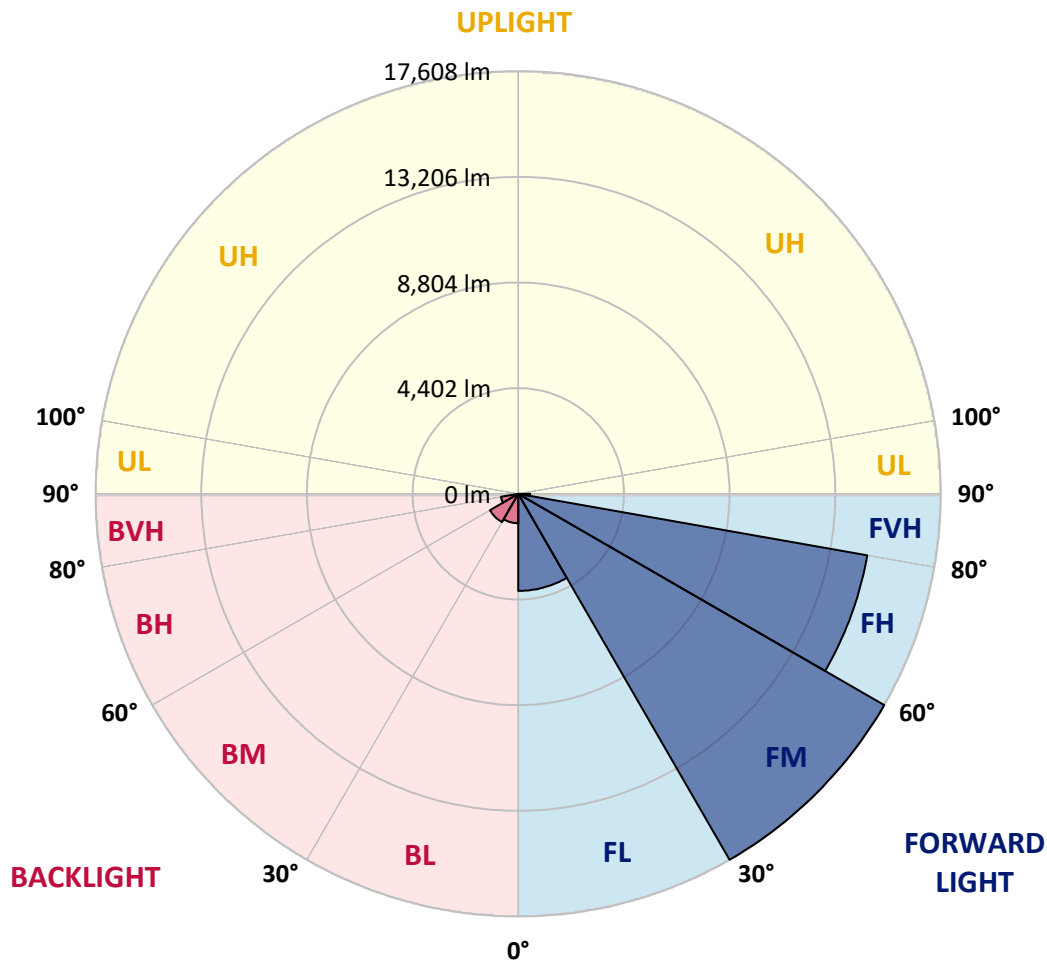
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4044.8	10.1			
FM (30°-60°)	17607.8	43.8			
FH (60°-80°)	14765.5	36.7			G5
FVH (80°-90°)	491.6	1.2			G3/500
BL (0°-30°)	1224.9	3.0	B3/2500		
BM (30°-60°)	1361.4	3.4	B2/2500		
BH (60°-80°)	731.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.2	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°	58°	65°	75°
0°	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2
2.5°	12403.5	12446.2	12483.6	12414.1	12472.9	12387.4	12168.4	12120.4	12083.0	11757.1
5°	12398.1	12350.0	12387.4	12419.5	12339.4	12403.5	12350.0	12355.4	12211.2	11917.4
7.5°	11570.2	11548.8	11570.2	11725.1	11901.3	12040.2	12120.4	12200.5	12104.3	11666.3
10°	10453.7	10560.6	10619.3	10897.1	11169.5	11425.9	11677.0	11826.6	11799.8	11623.6
12.5°	9673.8	9641.8	9855.5	10037.1	10309.5	10827.7	11265.7	11404.6	11564.8	11319.1
15°	8952.7	8867.2	8995.4	9310.6	9775.3	10186.7	10800.9	11009.3	11212.3	11276.4
17.5°	8263.6	8306.4	8439.9	8723.0	9161.0	9737.9	10314.9	10614.0	11100.1	11014.6
20°	7932.4	8023.3	8071.3	8215.6	8520.0	9096.9	9957.0	10197.3	10715.5	11009.3
22.5°	7948.5	7948.5	7836.3	7921.8	8199.5	8648.2	9470.9	9737.9	10560.6	10731.5
25°	8119.4	8012.6	8017.9	7916.4	8033.9	8279.7	9032.8	9358.7	10245.4	10758.2
27.5°	8247.6	8226.2	8194.2	8167.5	8017.9	8055.3	8744.4	9011.5	10122.6	10726.2
30°	8712.3	8616.2	8584.1	8525.4	8327.7	8146.1	8514.7	8851.2	10026.4	10800.9
32.5°	9102.3	9118.3	9145.0	8974.1	8803.1	8354.4	8578.8	8845.9	9957.0	10971.9
35°	9593.7	9663.2	9673.8	9620.4	9438.8	8995.4	8845.9	9075.6	10074.5	11276.4
37.5°	10341.6	10266.8	10469.8	10491.1	10362.9	9775.3	9465.5	9556.3	10421.7	11762.5
40°	10827.7	10918.5	11297.7	11532.8	11313.8	10779.6	10362.9	10346.9	10923.8	12526.3
42.5°	11367.2	11570.2	11986.8	12494.3	12467.6	11970.8	11548.8	11479.3	11815.9	13632.1
45°	12104.3	12285.9	12868.2	13632.1	14048.7	13626.7	12991.1	12852.2	12900.2	15138.4
47.5°	13327.6	13279.5	14118.2	14871.3	15555.1	15229.2	14956.8	14550.8	14513.4	16911.9
50°	14711.1	14700.4	15448.2	16302.9	17093.5	17729.2	17275.1	16831.7	16842.4	19321.0
52.5°	16025.1	16233.5	17040.1	17889.4	19246.2	19929.9	20368.0	20191.7	19342.4	21473.7
55°	16719.6	16901.2	17702.4	19166.1	21308.1	23065.5	24251.4	24101.8	22461.9	23898.8
57.5°	16062.5	16185.4	17269.8	19187.4	22750.4	26671.2	27809.0	27622.0	25688.3	25752.4
60°	13311.6	13503.9	15117.1	17365.9	22189.5	29448.9	32707.3	32424.2	28626.3	28097.4
62.5°	9219.8	9348.0	10672.7	13471.8	19529.3	30415.7	37333.2	37488.2	31724.4	29924.3
65°	5972.0	5961.4	6719.9	8616.2	13840.4	27488.5	40068.2	41029.7	34715.8	30202.1
67°	4220.0	4203.9	4561.8	5843.8	9583.0	22648.9	40020.1	42087.4	36339.7	30282.2
67.5°	3894.1	3878.1	4220.0	5373.8	8648.2	21062.4	39421.9	41542.5	36911.3	30170.0
70°	3023.4	2980.7	3108.9	3701.8	5037.2	13621.4	33738.3	38161.2	35725.4	27370.9
72.5°	2184.8	2232.8	2435.8	3039.4	3952.9	7328.8	25715.0	30859.1	29838.8	20629.7
75°	1522.4	1565.1	1891.0	2478.6	3627.0	4444.3	17387.3	22381.8	20784.6	11388.5
77.5°	795.9	849.3	1207.2	1981.8	3295.8	3440.1	10389.6	14192.9	11014.6	4054.4
80°	368.6	395.3	603.6	1404.9	2756.3	3023.4	6057.5	7895.1	4406.9	908.1
82.5°	160.3	176.3	277.8	806.6	1955.1	2644.1	3749.9	4139.8	1597.2	293.8
85°	32.1	37.4	106.8	427.3	945.5	1602.5	2633.5	2457.2	801.3	144.2
87.5°	0.0	0.0	26.7	122.9	256.4	475.4	1116.4	1116.4	245.7	74.8
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°
11399.2	0°	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2	11399.2
11570.2	2.5°	11404.6	11212.3	10790.3	10400.3	10122.6	9807.4	9390.7	9203.8	9134.3	9038.2
11393.9	5°	11105.4	10870.4	10149.3	9422.8	8626.9	8023.3	7382.3	7008.3	6725.2	6548.9
11158.8	7.5°	10683.4	10202.7	9230.5	8066.0	7035.0	6137.6	5165.4	4508.4	4086.4	3915.5
10902.4	10°	10346.9	9721.9	8242.3	6794.7	5421.8	4107.8	3012.7	2435.8	1997.8	1832.2
10565.9	12.5°	9908.9	9161.0	7318.1	5496.6	3771.3	2446.5	1666.6	1447.6	1324.7	1303.4
10384.3	15°	9545.6	8653.6	6442.1	4257.3	2441.2	1527.7	1298.0	1244.6	1212.6	1201.9
10111.9	17.5°	9299.9	8108.7	5544.7	3098.2	1607.9	1250.0	1196.5	1164.5	1148.5	1143.1
9844.8	20°	8813.8	7649.3	4658.0	2168.7	1255.3	1153.8	1111.1	1084.4	1068.3	1063.0
9604.4	22.5°	8536.1	7067.1	3771.3	1511.7	1116.4	1047.0	1014.9	993.6	966.9	950.8
9476.2	25°	8258.3	6639.8	2980.7	1175.2	1014.9	966.9	918.8	892.1	849.3	828.0
9278.6	27.5°	7932.4	6217.8	2296.9	1020.3	913.4	865.4	817.3	774.5	721.1	699.8
9166.4	30°	7745.5	5806.4	1730.7	913.4	838.6	774.5	715.8	662.4	603.6	566.2
9278.6	32.5°	7649.3	5432.5	1298.0	833.3	758.5	689.1	614.3	550.2	496.8	464.7
9289.2	35°	7531.8	5069.3	1020.3	758.5	683.7	609.0	534.2	470.1	416.7	389.9
9695.2	37.5°	7654.7	4855.6	849.3	699.8	625.0	539.5	459.4	395.3	352.6	325.8
10197.3	40°	7991.2	4679.3	737.2	646.3	566.2	475.4	400.6	336.5	299.1	277.8
10993.3	42.5°	8509.4	4679.3	667.7	592.9	512.8	416.7	341.9	293.8	256.4	235.0
12350.0	45°	9449.5	4823.6	609.0	539.5	448.7	357.9	293.8	245.7	208.3	187.0
14225.0	47.5°	10768.9	5154.8	560.9	491.4	400.6	315.2	256.4	208.3	170.9	149.6
16431.1	50°	12542.3	5907.9	512.8	432.7	357.9	272.4	213.7	165.6	133.5	112.2
18792.2	52.5°	14753.8	6976.3	464.7	400.6	304.5	229.7	170.9	133.5	101.5	85.5
21121.1	55°	17093.5	8285.0	406.0	357.9	261.7	192.3	138.9	101.5	74.8	64.1
23936.2	57.5°	19449.2	9294.6	357.9	309.8	213.7	154.9	112.2	80.1	53.4	42.7
25747.1	60°	20699.1	9390.7	309.8	256.4	170.9	122.9	85.5	58.8	37.4	26.7
26286.6	62.5°	20891.4	8536.1	267.1	208.3	138.9	96.2	58.8	42.7	21.4	10.7
26121.0	65°	19903.2	7115.2	229.7	165.6	106.8	69.4	42.7	26.7	10.7	5.3
24587.9	67°	18300.7	5961.4	197.6	138.9	85.5	53.4	32.1	16.0	5.3	0.0
23914.9	67.5°	17681.1	5640.9	187.0	128.2	80.1	48.1	26.7	16.0	5.3	0.0
19096.6	70°	13722.9	4027.7	138.9	90.8	58.8	37.4	21.4	10.7	0.0	0.0
12136.4	72.5°	8407.9	2355.7	106.8	64.1	42.7	26.7	16.0	5.3	0.0	0.0
5170.8	75°	3525.5	811.9	90.8	48.1	32.1	16.0	10.7	5.3	0.0	0.0
1426.2	77.5°	918.8	304.5	64.1	32.1	21.4	16.0	10.7	5.3	0.0	0.0
491.4	80°	373.9	138.9	42.7	21.4	21.4	16.0	10.7	5.3	0.0	0.0
304.5	82.5°	245.7	64.1	26.7	21.4	16.0	10.7	5.3	0.0	0.0	0.0
240.4	85°	187.0	37.4	16.0	16.0	10.7	5.3	0.0	0.0	0.0	0.0
90.8	87.5°	80.1	21.4	16.0	10.7	10.7	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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