

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: P575407

Luminaire Tested: **EPH-VN-07-730-U-SL3-HSS**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P575407
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

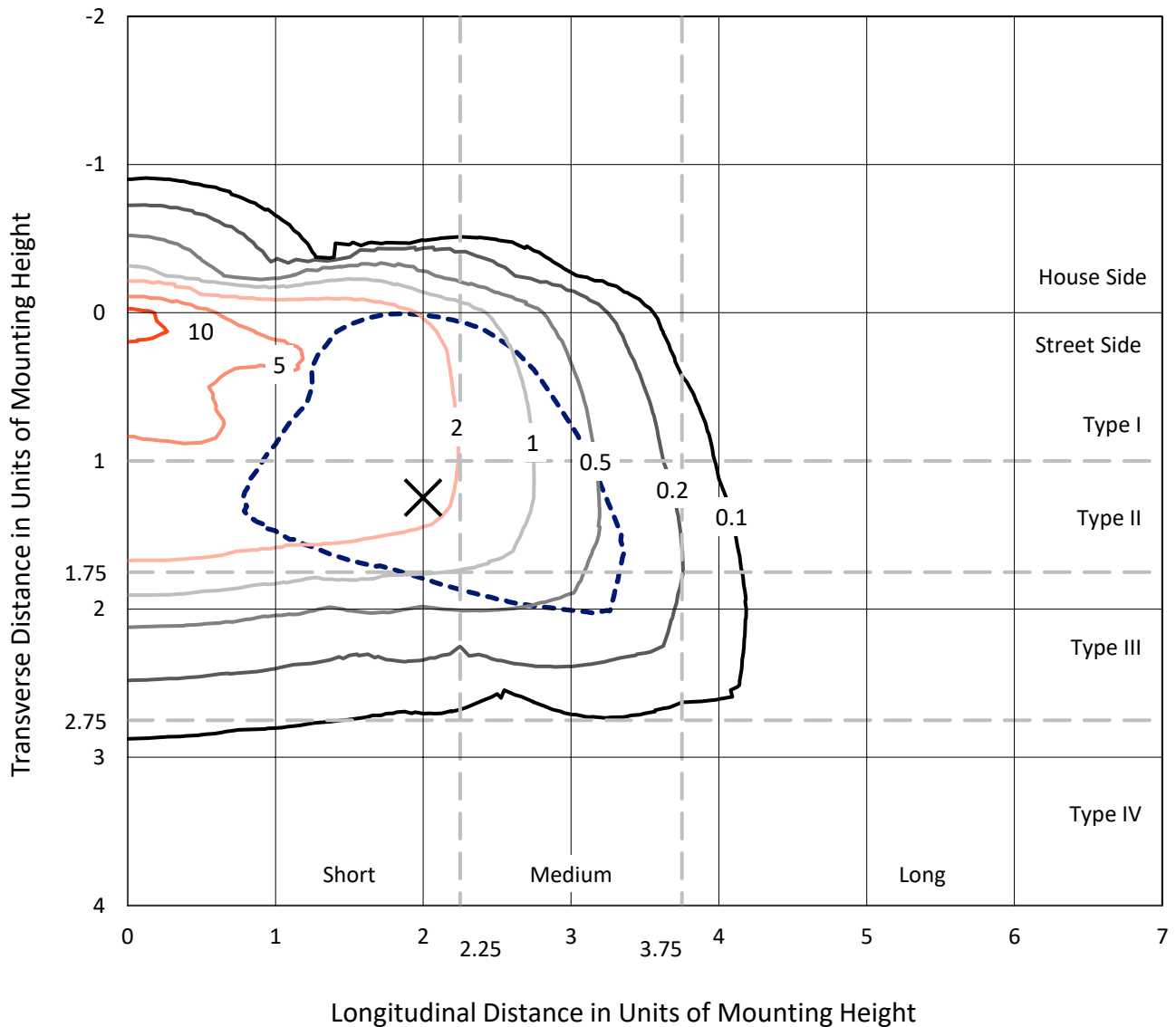
Lumens per Lamp: N/A
Luminaire Lumens: 37147.2 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

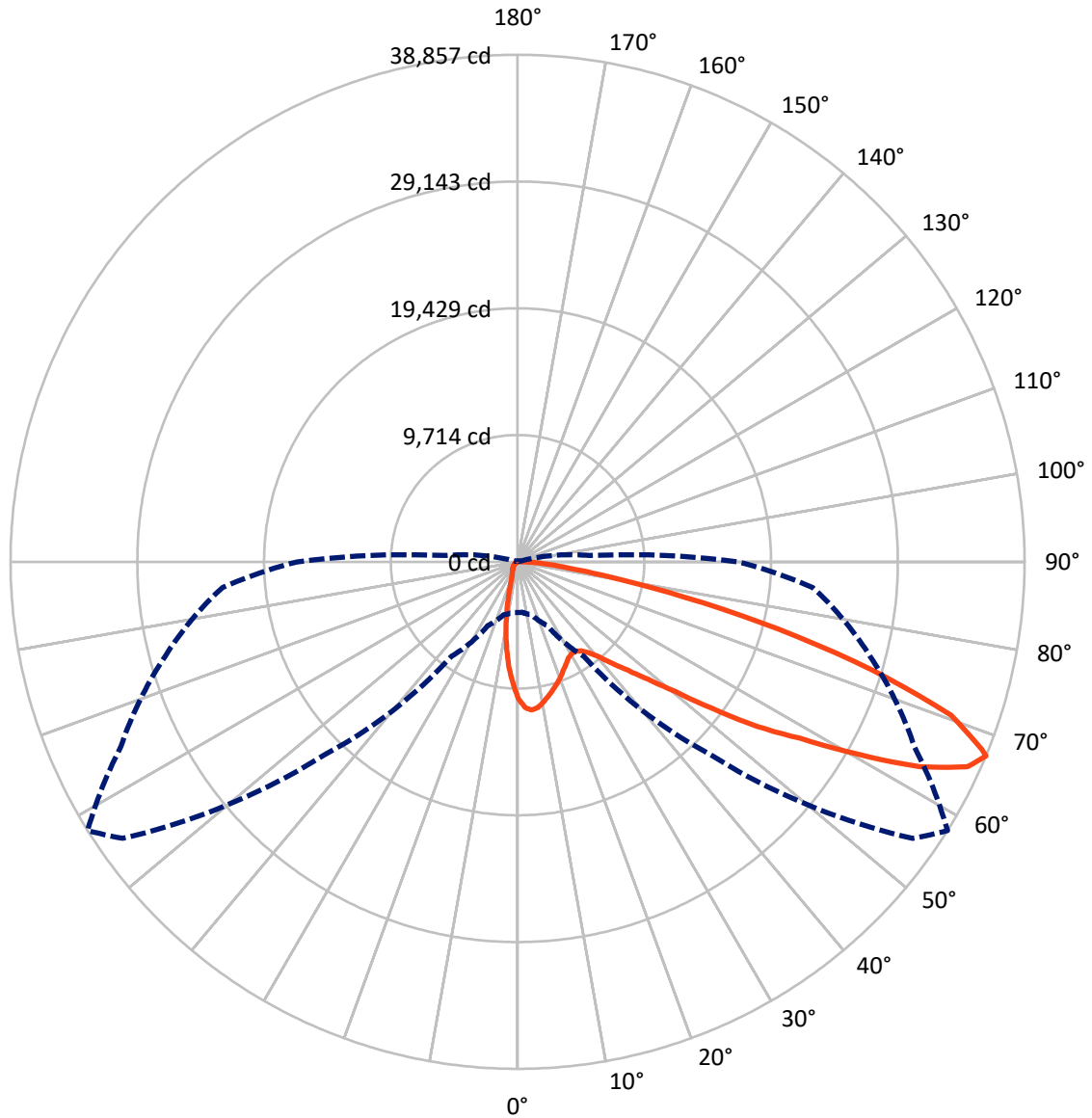
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 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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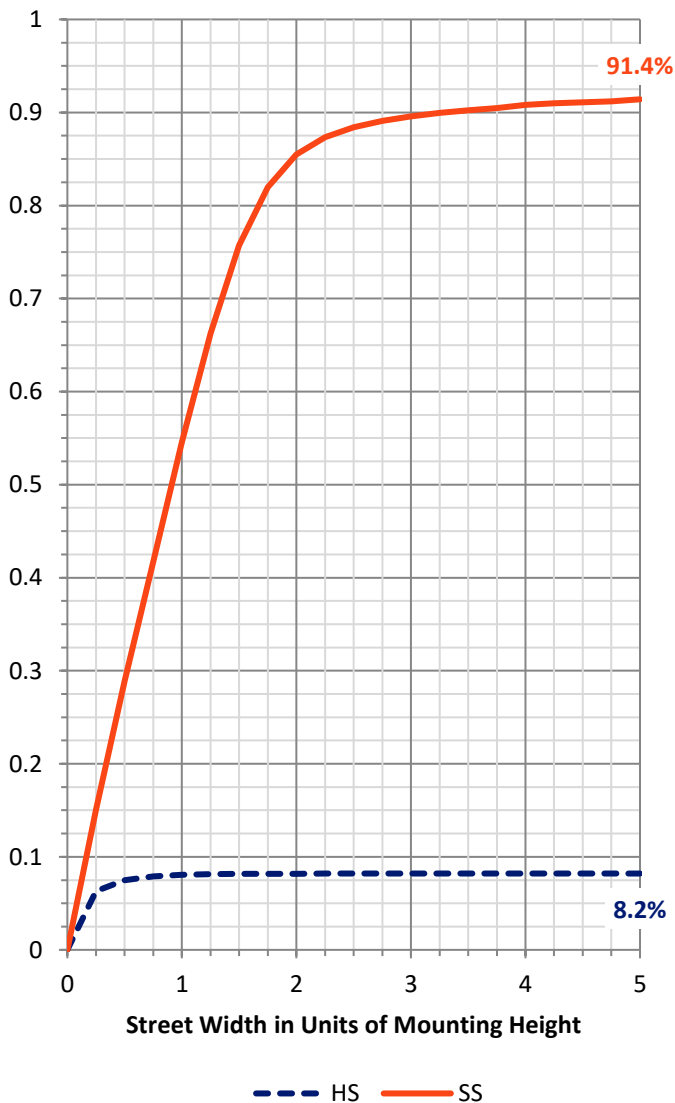
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3070.5	0.0	3070.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	34076.7	0.0	34076.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	37147.2	0.0	37147.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.1	2.2
10°-20°	1732.1	4.7
20°-30°	2298.1	6.2
30°-40°	3184.4	8.6
40°-50°	5196.0	14.0
50°-60°	9132.9	24.6
60°-70°	10115.4	27.2
70°-80°	4191.8	11.3
80°-90°	461.4	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°	37147.2	100.0
0°-180°	37147.2	100.0

Coefficient of Utilization



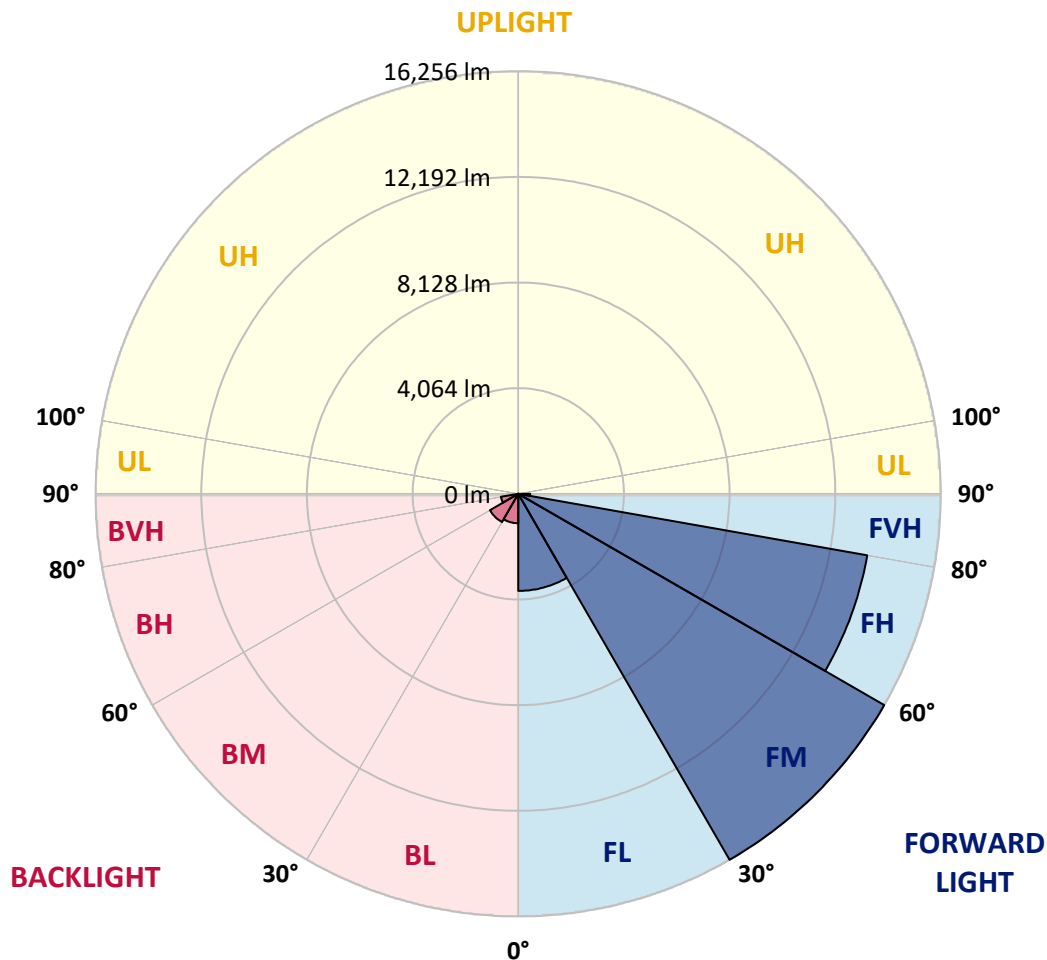
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3734.3	10.1			
FM (30°-60°)	16256.4	43.8			
FH (60°-80°)	13632.2	36.7			G5
FVH (80°-90°)	453.8	1.2			G3/500
BL (0°-30°)	1130.9	3.0	B3/2500		
BM (30°-60°)	1256.9	3.4	B2/2500		
BH (60°-80°)	675.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.6	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°	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3
2.5°	11451.5	11490.9	11525.5	11461.3	11515.6	11436.7	11234.5	11190.1	11155.6	10854.7
5°	11446.5	11402.2	11436.7	11466.3	11392.3	11451.5	11402.2	11407.1	11273.9	11002.7
7.5°	10682.1	10662.4	10682.1	10825.1	10987.9	11116.1	11190.1	11264.1	11175.3	10770.9
10°	9651.4	9750.0	9804.3	10060.7	10312.2	10549.0	10780.8	10918.9	10894.2	10731.4
12.5°	8931.4	8901.8	9099.0	9266.7	9518.2	9996.6	10401.0	10529.2	10677.2	10450.3
15°	8265.6	8186.7	8305.0	8596.0	9025.1	9404.8	9972.0	10164.3	10351.7	10410.9
17.5°	7629.4	7668.8	7792.1	8053.5	8457.9	8990.5	9523.2	9799.3	10248.1	10169.2
20°	7323.6	7407.5	7451.8	7585.0	7866.1	8398.7	9192.7	9414.7	9893.1	10164.3
22.5°	7338.4	7338.4	7234.8	7313.8	7570.2	7984.5	8744.0	8990.5	9750.0	9907.8
25°	7496.2	7397.6	7402.5	7308.8	7417.3	7644.2	8339.6	8640.4	9459.1	9932.5
27.5°	7614.6	7594.9	7565.3	7540.6	7402.5	7437.0	8073.2	8319.8	9345.6	9902.9
30°	8043.7	7954.9	7925.3	7871.0	7688.6	7520.9	7861.2	8171.9	9256.9	9972.0
32.5°	8403.7	8418.5	8443.1	8285.3	8127.5	7713.2	7920.4	8166.9	9192.7	10129.8
35°	8857.4	8921.5	8931.4	8882.0	8714.4	8305.0	8166.9	8379.0	9301.2	10410.9
37.5°	9547.8	9478.8	9666.2	9685.9	9567.6	9025.1	8739.0	8822.9	9621.8	10859.7
40°	9996.6	10080.5	10430.6	10647.6	10445.4	9952.2	9567.6	9552.8	10085.4	11564.9
42.5°	10494.7	10682.1	11066.8	11535.3	11510.7	11052.0	10662.4	10598.3	10909.0	12585.8
45°	11175.3	11343.0	11880.5	12585.8	12970.5	12580.8	11994.0	11865.7	11910.1	13976.5
47.5°	12304.7	12260.3	13034.6	13729.9	14361.2	14060.4	13808.8	13434.0	13399.5	15613.9
50°	13582.0	13572.1	14262.6	15051.6	15781.5	16368.4	15949.2	15539.9	15549.7	17838.1
52.5°	14795.2	14987.5	15732.2	16516.4	17769.0	18400.3	18804.7	18641.9	17857.8	19825.6
55°	15436.3	15604.0	16343.8	17695.0	19672.7	21295.2	22390.1	22252.0	20737.9	22064.6
57.5°	14829.7	14943.1	15944.3	17714.8	21004.2	24624.1	25674.6	25502.0	23716.7	23775.9
60°	12289.9	12467.4	13956.8	16033.1	20486.4	27188.6	30197.0	29935.6	26429.1	25940.9
62.5°	8512.2	8630.5	9853.6	12437.8	18030.4	28081.3	34467.9	34610.9	29289.5	27627.6
65°	5513.7	5503.8	6204.1	7954.9	12778.1	25378.7	36992.9	37880.6	32051.3	27884.0
67°	3896.1	3881.3	4211.7	5395.3	8847.5	20910.5	36948.5	38857.1	33550.6	27958.0
67.5°	3595.2	3580.4	3896.1	4961.3	7984.5	19445.8	36396.2	38354.1	34078.3	27854.4
70°	2791.4	2751.9	2870.3	3417.7	4650.6	12575.9	31148.8	35232.3	32983.4	25270.2
72.5°	2017.1	2061.5	2248.9	2806.2	3649.5	6766.3	23741.4	28490.6	27548.6	19046.3
75°	1405.5	1445.0	1745.8	2288.3	3348.6	4103.2	16052.8	20664.0	19189.4	10514.4
77.5°	734.8	784.1	1114.6	1829.7	3042.9	3176.0	9592.2	13103.6	10169.2	3743.2
80°	340.3	364.9	557.3	1297.0	2544.8	2791.4	5592.6	7289.1	4068.7	838.4
82.5°	148.0	162.7	256.4	744.7	1805.0	2441.2	3462.1	3822.1	1474.6	271.2
85°	29.6	34.5	98.6	394.5	872.9	1479.5	2431.3	2268.6	739.8	133.2
87.5°	0.0	0.0	24.7	113.4	236.7	438.9	1030.7	1030.7	226.9	69.0
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°
10524.3	0°	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3	10524.3
10682.1	2.5°	10529.2	10351.7	9962.1	9602.1	9345.6	9054.7	8670.0	8497.4	8433.3	8344.5
10519.4	5°	10253.1	10036.1	9370.3	8699.6	7964.7	7407.5	6815.7	6470.4	6209.0	6046.3
10302.4	7.5°	9863.5	9419.6	8522.0	7446.9	6495.1	5666.6	4769.0	4162.4	3772.8	3615.0
10065.7	10°	9552.8	8975.7	7609.7	6273.2	5005.7	3792.5	2781.5	2248.9	1844.5	1691.6
9755.0	12.5°	9148.4	8457.9	6756.5	5074.8	3481.8	2258.7	1538.7	1336.5	1223.1	1203.3
9587.3	15°	8813.0	7989.4	5947.7	3930.6	2253.8	1410.5	1198.4	1149.1	1119.5	1109.6
9335.8	17.5°	8586.1	7486.4	5119.1	2860.4	1484.5	1154.0	1104.7	1075.1	1060.3	1055.4
9089.2	20°	8137.4	7062.2	4300.5	2002.3	1159.0	1065.3	1025.8	1001.1	986.3	981.4
8867.3	22.5°	7880.9	6524.7	3481.8	1395.7	1030.7	966.6	937.0	917.3	892.6	877.8
8748.9	25°	7624.5	6130.1	2751.9	1085.0	937.0	892.6	848.3	823.6	784.1	764.4
8566.4	27.5°	7323.6	5740.5	2120.6	942.0	843.3	798.9	754.6	715.1	665.8	646.1
8462.8	30°	7151.0	5360.8	1597.9	843.3	774.3	715.1	660.9	611.5	557.3	522.8
8566.4	32.5°	7062.2	5015.6	1198.4	769.3	700.3	636.2	567.1	508.0	458.7	429.1
8576.3	35°	6953.7	4680.2	942.0	700.3	631.3	562.2	493.2	434.0	384.7	360.0
8951.1	37.5°	7067.2	4482.9	784.1	646.1	577.0	498.1	424.1	364.9	325.5	300.8
9414.7	40°	7377.9	4320.2	680.6	596.7	522.8	438.9	369.9	310.7	276.2	256.4
10149.5	42.5°	7856.2	4320.2	616.5	547.4	473.4	384.7	315.6	271.2	236.7	217.0
11402.2	45°	8724.2	4453.4	562.2	498.1	414.3	330.4	271.2	226.9	192.3	172.6
13133.2	47.5°	9942.4	4759.1	517.8	453.7	369.9	291.0	236.7	192.3	157.8	138.1
15170.0	50°	11579.7	5454.5	473.4	399.5	330.4	251.5	197.3	152.9	123.3	103.6
17349.8	52.5°	13621.4	6440.8	429.1	369.9	281.1	212.1	157.8	123.3	93.7	78.9
19500.1	55°	15781.5	7649.1	374.8	330.4	241.7	177.5	128.2	93.7	69.0	59.2
22099.1	57.5°	17956.4	8581.2	330.4	286.0	197.3	143.0	103.6	74.0	49.3	39.5
23770.9	60°	19110.5	8670.0	286.0	236.7	157.8	113.4	78.9	54.2	34.5	24.7
24269.0	62.5°	19288.0	7880.9	246.6	192.3	128.2	88.8	54.2	39.5	19.7	9.9
24116.2	65°	18375.6	6569.1	212.1	152.9	98.6	64.1	39.5	24.7	9.9	4.9
22700.8	67°	16896.1	5503.8	182.5	128.2	78.9	49.3	29.6	14.8	4.9	0.0
22079.4	67.5°	16324.0	5207.9	172.6	118.4	74.0	44.4	24.7	14.8	4.9	0.0
17630.9	70°	12669.6	3718.5	128.2	83.8	54.2	34.5	19.7	9.9	0.0	0.0
11204.9	72.5°	7762.5	2174.9	98.6	59.2	39.5	24.7	14.8	4.9	0.0	0.0
4773.9	75°	3254.9	749.6	83.8	44.4	29.6	14.8	9.9	4.9	0.0	0.0
1316.8	77.5°	848.3	281.1	59.2	29.6	19.7	14.8	9.9	4.9	0.0	0.0
453.7	80°	345.2	128.2	39.5	19.7	19.7	14.8	9.9	4.9	0.0	0.0
281.1	82.5°	226.9	59.2	24.7	19.7	14.8	9.9	4.9	0.0	0.0	0.0
221.9	85°	172.6	34.5	14.8	14.8	9.9	4.9	0.0	0.0	0.0	0.0
83.8	87.5°	74.0	19.7	14.8	9.9	9.9	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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