

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: P575462

Luminaire Tested: **EPH-VN-04-750-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

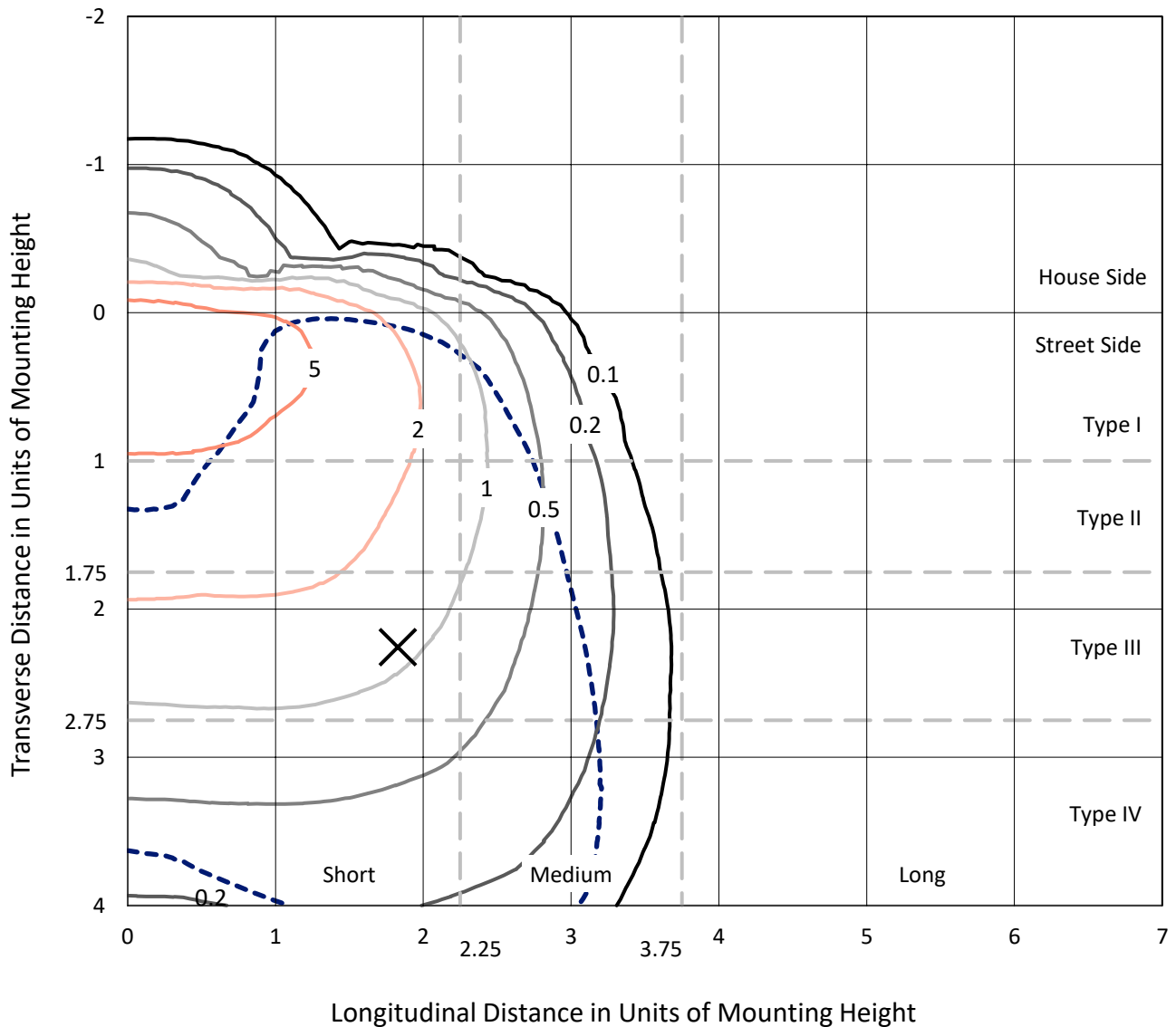
Lumens per Lamp: N/A
Luminaire Lumens: 29554.8 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 241
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

REPORT NUMBER: P575462
 CATALOG NUMBER: EPH-VN-04-750-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

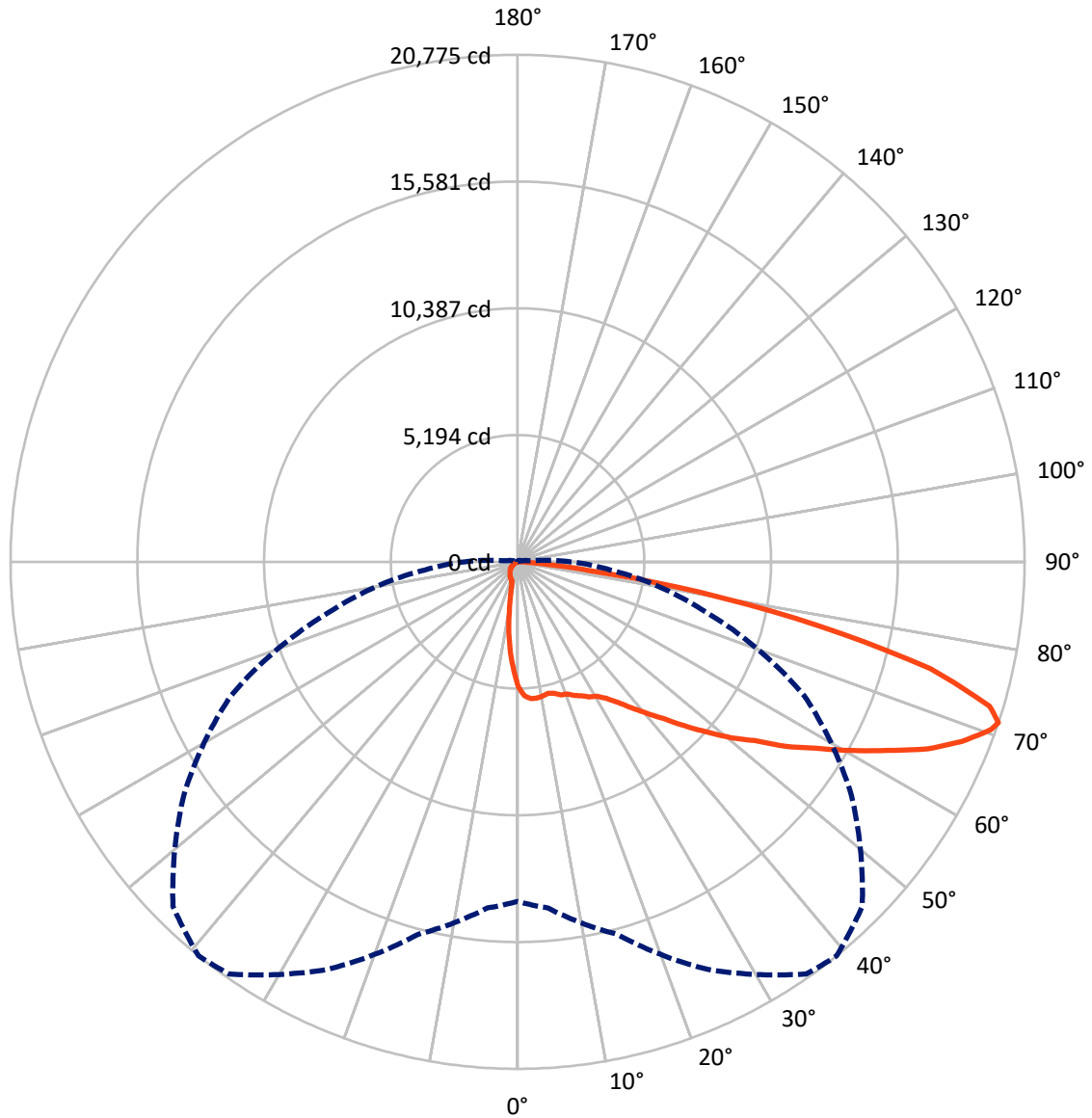
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P575462
CATALOG NUMBER: EPH-VN-04-750-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P575462
 CATALOG NUMBER: EPH-VN-04-750-U-SL4-HSS

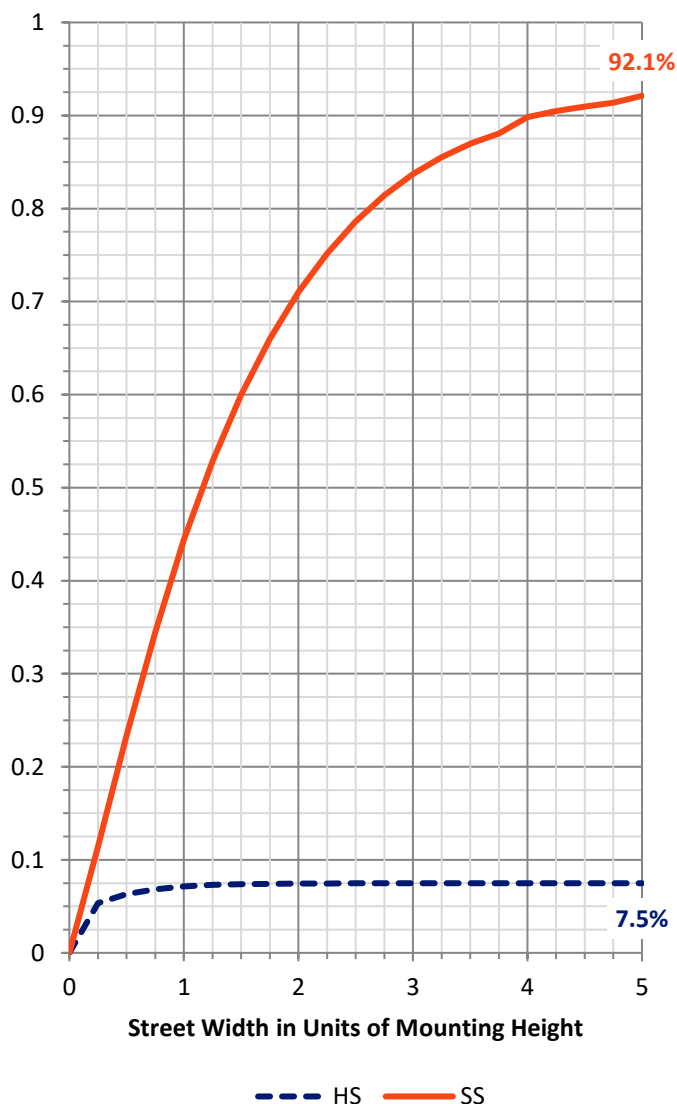
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.0	0.0	2225.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	27329.8	0.0	27329.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	29554.8	0.0	29554.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.1	1.5
10°-20°	1058.6	3.6
20°-30°	1699.4	5.8
30°-40°	2601.4	8.8
40°-50°	4175.7	14.1
50°-60°	6133.4	20.8
60°-70°	7724.8	26.1
70°-80°	5155.3	17.4
80°-90°	576.1	1.9
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°	29554.8	100.0
0°-180°	29554.8	100.0

Coefficient of Utilization

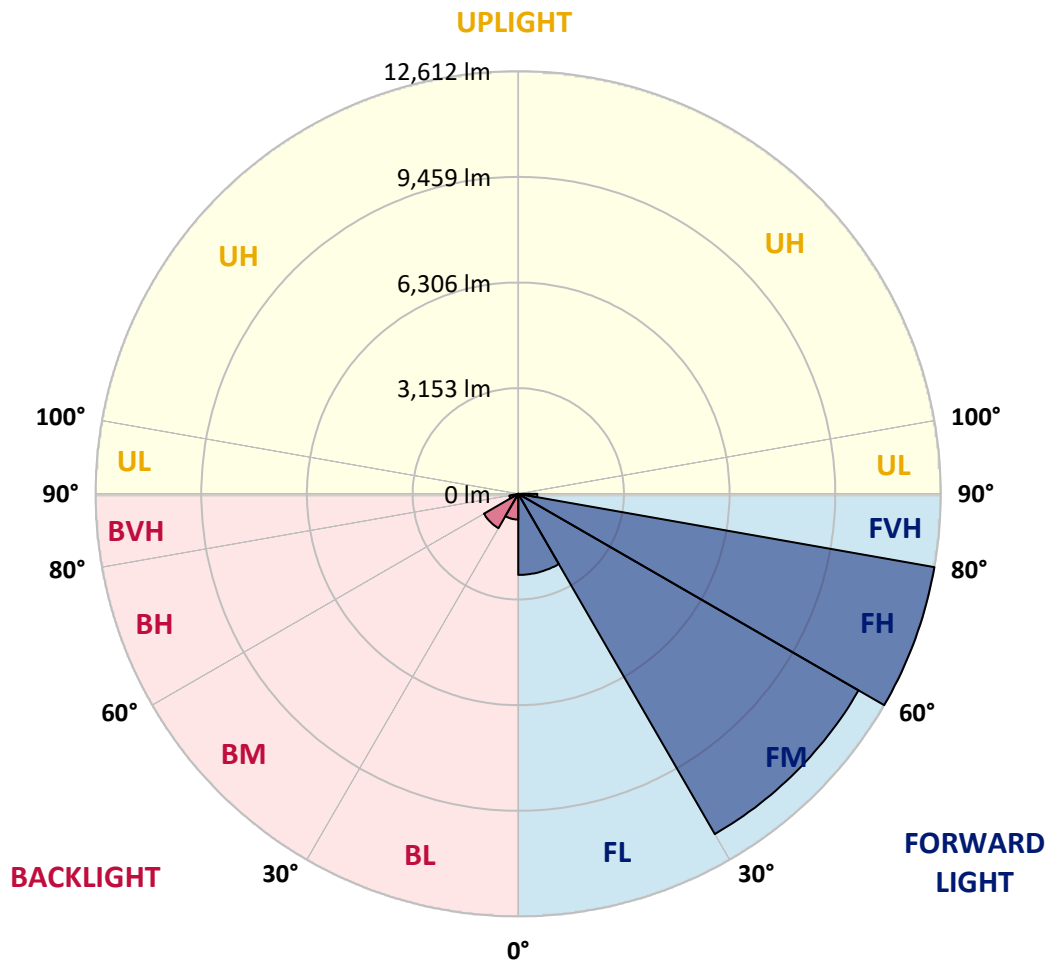


REPORT NUMBER: P575462
 CATALOG NUMBER: EPH-VN-04-750-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2419.9	8.2			
FM (30°-60°)	11727.8	39.7			
FH (60°-80°)	12612.3	42.7			G5
FVH (80°-90°)	569.8	1.9			G4/750
BL (0°-30°)	768.2	2.6	B2/1000		
BM (30°-60°)	1182.7	4.0	B2/2500		
BH (60°-80°)	267.8	0.9	B1/500		G1/500
BVH (80°-90°)	6.3	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-G5
 Type IV Short





REPORT NUMBER: P575462
 CATALOG NUMBER: EPH-VN-04-750-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2
2.5°	5543.5	5597.8	5543.5	5520.2	5497.0	5500.9	5438.8	5450.5	5376.8	5279.9
5°	5717.9	5791.6	5733.4	5706.3	5702.4	5628.8	5597.8	5524.1	5435.0	5283.8
7.5°	5702.4	5686.9	5714.1	5690.8	5640.4	5640.4	5605.5	5500.9	5411.7	5241.1
10°	5586.1	5632.7	5609.4	5582.3	5593.9	5597.8	5531.9	5458.2	5431.1	5260.5
12.5°	5574.5	5497.0	5582.3	5586.1	5535.7	5531.9	5524.1	5504.7	5419.4	5264.4
15°	5535.7	5504.7	5590.0	5593.9	5605.5	5593.9	5605.5	5590.0	5504.7	5415.6
17.5°	5566.8	5531.9	5652.0	5710.2	5683.1	5737.3	5717.9	5648.2	5574.5	5469.8
20°	5574.5	5624.9	5756.7	5780.0	5865.3	5776.1	5772.2	5698.6	5652.0	5539.6
22.5°	5717.9	5741.2	5904.0	5954.4	5958.3	5946.7	5849.7	5764.5	5745.1	5605.5
25°	5935.0	6016.4	6090.1	6121.1	6132.7	6078.5	5977.7	5869.1	5822.6	5733.4
27.5°	6318.8	6268.4	6334.3	6380.8	6249.0	6268.4	6140.5	6047.4	5981.5	5904.0
30°	6659.9	6613.4	6617.3	6609.6	6497.1	6392.5	6357.6	6194.8	6113.4	6144.4
32.5°	6966.2	6865.4	6950.7	6911.9	6702.6	6671.6	6644.4	6439.0	6454.5	6597.9
35°	7249.2	7214.3	7284.1	7214.3	7074.7	7067.0	7039.9	6861.5	6946.8	7152.3
37.5°	7508.9	7520.5	7605.8	7570.9	7582.6	7590.3	7574.8	7384.9	7629.1	8090.4
40°	7749.3	7733.8	7943.1	8051.6	8074.9	8160.2	8160.2	8113.7	8489.7	9009.1
42.5°	8005.1	8043.9	8315.2	8497.4	8718.4	8792.1	8892.9	8916.1	9497.6	10090.7
45°	8423.8	8357.9	8702.9	9133.2	9327.0	9586.8	9741.8	9873.6	10575.3	11389.4
47.5°	8954.9	8823.1	9125.4	9749.6	10199.3	10412.5	10691.6	10866.0	11552.2	12393.4
50°	9544.1	9408.4	9555.7	10416.3	10939.7	11327.3	11684.0	11904.9	12734.5	13517.6
52.5°	10210.9	10086.8	10110.1	11110.2	11881.7	12164.7	12633.7	12963.2	13789.0	14196.0
55°	10920.3	10889.3	10815.6	11788.6	12707.4	13343.2	13626.1	14021.6	14870.5	14564.3
57.5°	11633.6	11536.7	11641.3	12688.0	14033.2	14413.1	14804.6	15041.1	15471.4	14886.0
60°	12304.2	12312.0	12459.3	13664.9	15161.3	15700.1	16052.9	15909.4	16087.8	15025.6
62.5°	12870.2	12854.7	13226.9	14762.0	16653.7	17018.1	17281.7	16642.1	16374.6	15161.3
65°	13378.0	13552.5	14137.9	16068.4	18057.1	18475.7	18316.8	17336.0	16653.7	14762.0
67.5°	13761.8	14021.6	15037.2	17297.3	19344.1	19638.7	19417.7	17863.2	16324.2	13195.8
70°	13986.7	14250.3	15680.7	18320.7	20371.4	20584.6	20065.1	17456.2	14401.5	9555.7
71°	13916.9	14238.6	15804.8	18429.2	20615.6	20774.5	19968.2	16704.1	12951.6	8001.2
72.5°	13285.0	13587.4	15289.2	18351.7	20321.0	20224.1	19212.3	14897.7	10195.4	5101.6
75°	9761.2	10086.8	13122.2	15874.6	18138.5	17471.7	15548.9	10455.1	5318.7	1562.3
77.5°	4861.2	4915.5	8144.7	11525.0	13304.4	12641.5	10420.2	5830.4	1988.7	461.3
80°	2240.7	2256.2	3054.7	5969.9	8043.9	7570.9	5838.1	2876.4	899.4	244.2
82.5°	1527.4	1550.6	1841.4	2473.3	3492.8	2946.2	2364.7	1841.4	515.6	147.3
85°	279.1	255.9	1031.2	1310.3	1349.0	914.9	818.0	1593.3	193.8	85.3
87.5°	0.0	3.9	143.4	535.0	480.7	213.2	279.1	387.7	19.4	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575462

CATALOG NUMBER: EPH-VN-04-750-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5144.2	0°	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2
5202.4	2.5°	5136.5	5093.8	4950.4	4791.4	4648.0	4535.6	4392.2	4326.3	4221.6	4163.4
5190.7	5°	5062.8	4946.5	4698.4	4430.9	4132.4	3884.3	3609.1	3454.0	3275.7	3221.4
5082.2	7.5°	4938.8	4772.1	4407.7	4031.6	3574.2	3136.1	2798.9	2438.4	2217.4	2124.4
5000.8	10°	4861.2	4659.6	4163.4	3601.3	2961.7	2345.3	1872.4	1488.6	1287.0	1190.1
5020.2	12.5°	4861.2	4644.1	3965.7	3190.4	2341.4	1604.9	1159.1	938.1	872.2	849.0
5105.4	15°	4849.6	4613.1	3775.8	2767.9	1732.8	1077.7	864.5	818.0	810.2	806.3
5186.9	17.5°	4907.7	4558.8	3582.0	2314.3	1225.0	849.0	794.7	786.9	779.2	779.2
5237.2	20°	4950.4	4527.8	3349.4	1833.6	914.9	786.9	763.7	752.1	748.2	744.3
5248.9	22.5°	4915.5	4481.3	3062.5	1372.3	798.6	748.2	732.7	721.0	713.3	713.3
5369.0	25°	4981.4	4438.7	2775.6	1035.0	748.2	713.3	697.8	690.0	686.2	682.3
5508.6	27.5°	5070.6	4458.1	2434.5	833.5	705.5	678.4	662.9	655.1	651.3	643.5
5725.7	30°	5179.1	4454.2	2058.5	728.8	666.8	639.6	624.1	620.3	612.5	608.6
6051.3	32.5°	5365.2	4555.0	1670.8	674.5	624.1	600.9	585.4	581.5	577.6	573.7
6609.6	35°	5764.5	4679.0	1306.4	631.9	585.4	558.2	546.6	538.8	535.0	531.1
7260.8	37.5°	6256.8	4954.3	996.3	593.1	546.6	519.5	507.8	504.0	488.4	484.6
8164.1	40°	6873.2	5248.9	767.6	550.5	511.7	484.6	472.9	461.3	441.9	434.2
9086.7	42.5°	7640.7	5535.7	631.9	511.7	472.9	453.6	434.2	414.8	399.3	383.8
10009.3	45°	8408.3	5869.1	554.3	476.8	441.9	418.7	403.2	376.0	348.9	325.6
10881.5	47.5°	9047.9	5989.3	507.8	438.1	410.9	391.5	368.3	333.4	294.6	271.4
11517.3	50°	9524.7	5919.5	461.3	399.3	376.0	356.6	325.6	283.0	244.2	221.0
11742.1	52.5°	9617.8	5613.3	418.7	368.3	341.1	317.9	283.0	236.5	193.8	170.6
11986.4	55°	9551.9	5105.4	383.8	341.1	310.1	275.2	236.5	190.0	151.2	127.9
11893.3	57.5°	9416.2	4504.6	345.0	306.2	271.4	236.5	193.8	155.1	112.4	89.2
11680.1	60°	8954.9	3686.6	306.2	267.5	232.6	201.6	158.9	112.4	77.5	58.1
11308.0	62.5°	8311.4	2833.8	267.5	228.7	201.6	166.7	124.1	81.4	46.5	31.0
10261.3	65°	7136.8	1984.8	224.8	190.0	166.7	135.7	93.0	50.4	27.1	11.6
8357.9	67.5°	5423.3	1228.9	186.1	158.9	143.4	108.5	65.9	31.0	11.6	3.9
5214.0	70°	3112.9	639.6	147.3	127.9	112.4	81.4	46.5	15.5	7.8	0.0
3802.9	71°	2174.8	472.9	131.8	112.4	100.8	73.7	38.8	11.6	3.9	0.0
1965.4	72.5°	1089.3	314.0	112.4	93.0	81.4	58.1	31.0	11.6	3.9	0.0
573.7	75°	387.7	201.6	77.5	62.0	58.1	42.6	19.4	7.8	3.9	0.0
286.9	77.5°	267.5	162.8	54.3	38.8	38.8	27.1	11.6	3.9	3.9	0.0
224.8	80°	244.2	89.2	34.9	23.3	19.4	15.5	7.8	3.9	0.0	0.0
221.0	82.5°	244.2	65.9	19.4	15.5	11.6	7.8	3.9	0.0	0.0	0.0
193.8	85°	170.6	34.9	11.6	11.6	7.8	3.9	0.0	0.0	0.0	0.0
34.9	87.5°	27.1	11.6	7.8	3.9	3.9	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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