

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: P575464

Luminaire Tested: **EPH-VN-06-750-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575464
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

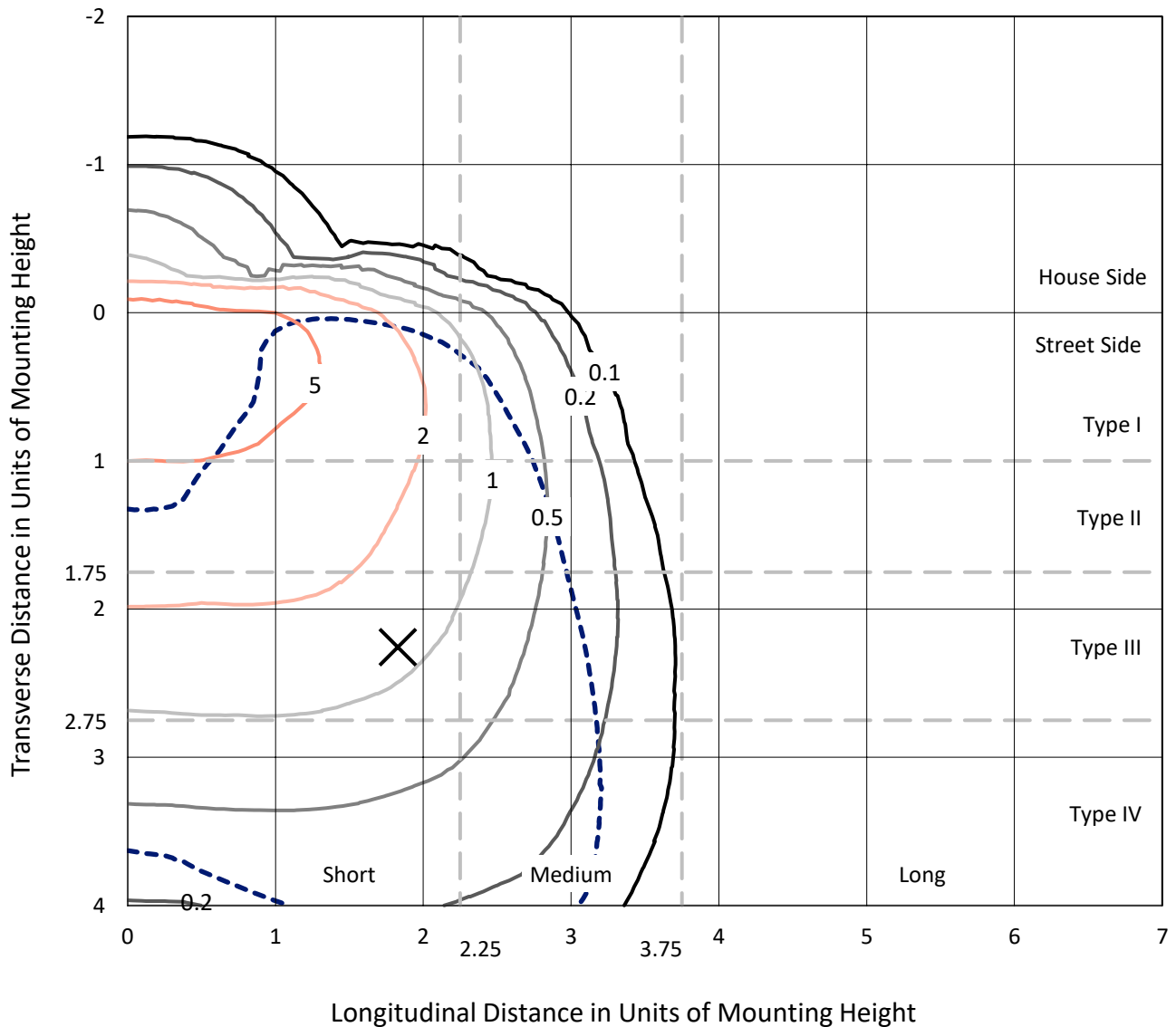
Lumens per Lamp: N/A
Luminaire Lumens: 44713.4 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

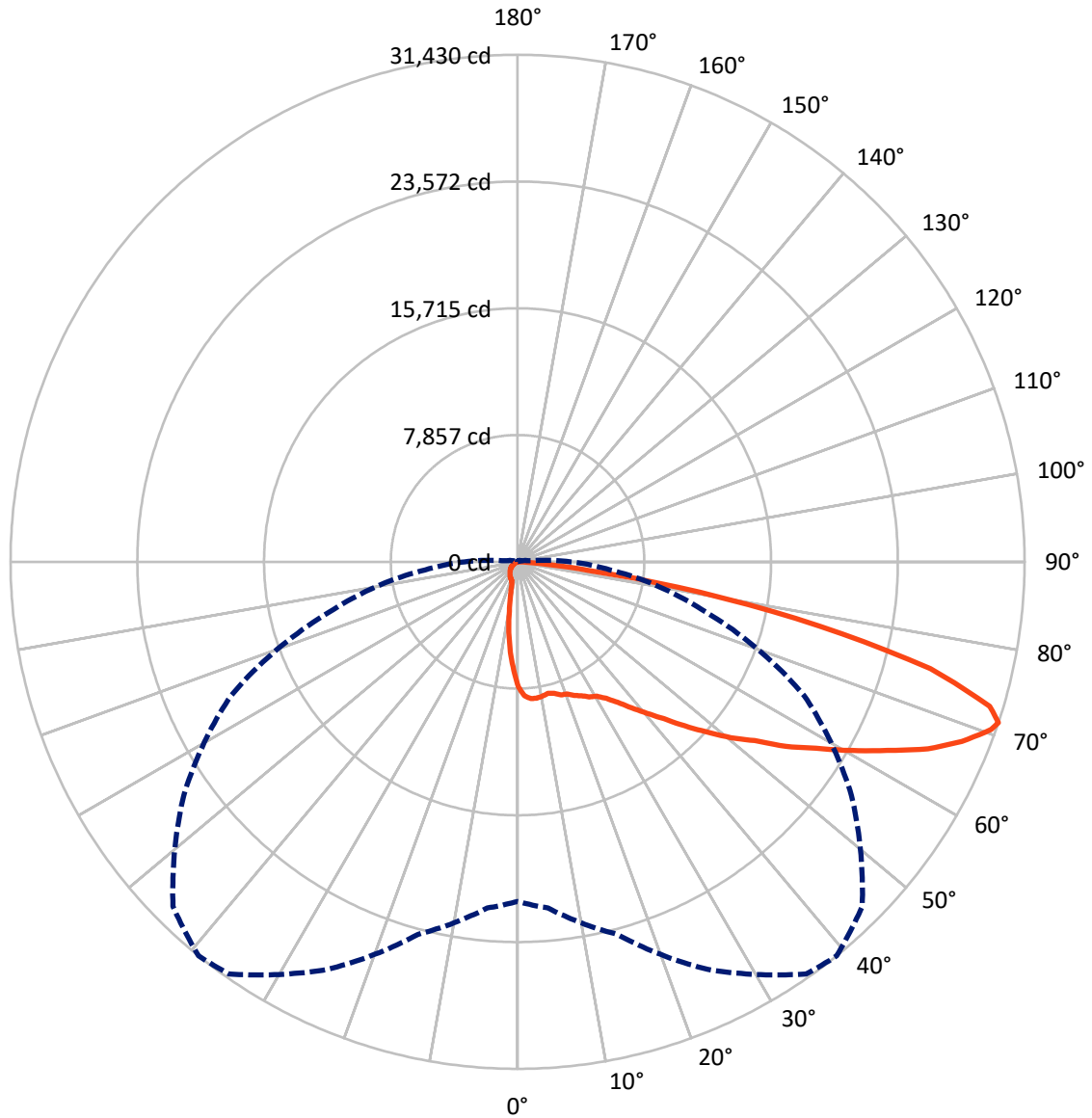
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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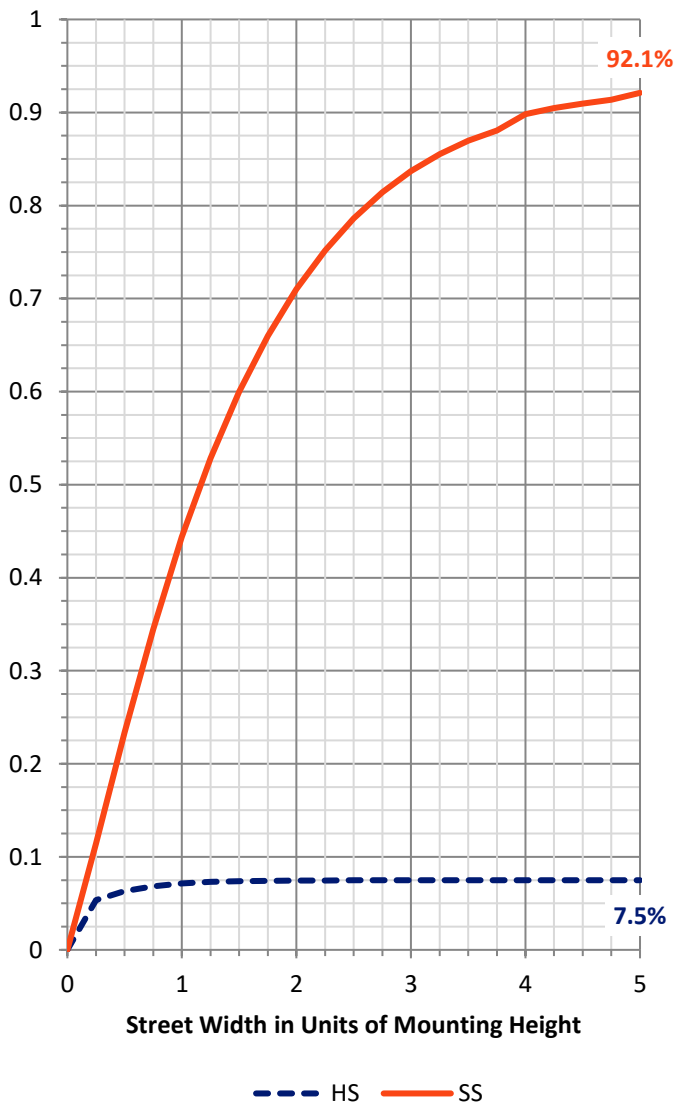
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3366.2	0.0	3366.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	41347.1	0.0	41347.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	44713.4	0.0	44713.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.7	1.5
10°-20°	1601.6	3.6
20°-30°	2571.0	5.8
30°-40°	3935.6	8.8
40°-50°	6317.4	14.1
50°-60°	9279.2	20.8
60°-70°	11686.8	26.1
70°-80°	7799.5	17.4
80°-90°	871.6	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°	44713.4	100.0
0°-180°	44713.4	100.0

Coefficient of Utilization



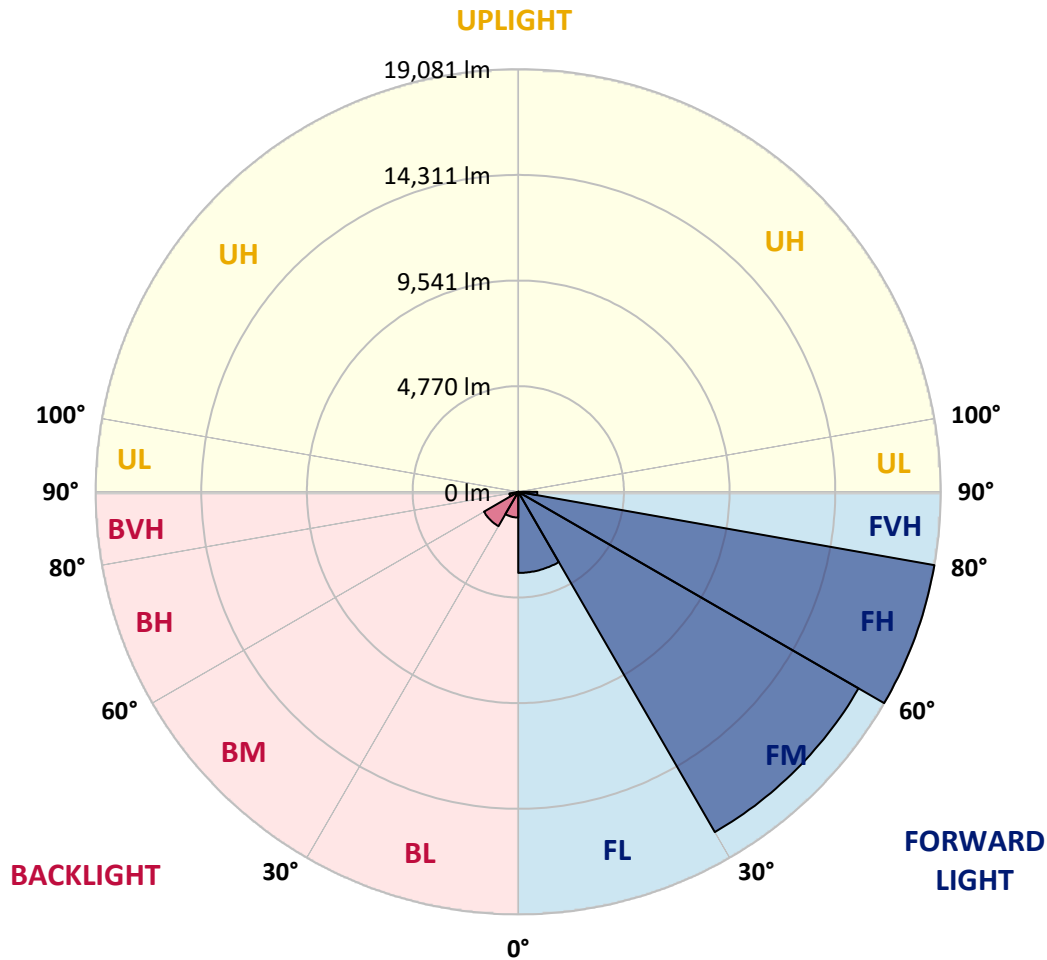
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3661.1	8.2			
FM (30°-60°)	17742.9	39.7			
FH (60°-80°)	19081.1	42.7			G5
FVH (80°-90°)	862.0	1.9			G5
BL (0°-30°)	1162.2	2.6	B3/2500		
BM (30°-60°)	1789.3	4.0	B2/2500		
BH (60°-80°)	405.2	0.9	B1/500		G1/500
BVH (80°-90°)	9.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6
2.5°	8386.7	8468.8	8386.7	8351.5	8316.3	8322.2	8228.4	8246.0	8134.5	7987.9
5°	8650.6	8762.1	8674.1	8633.0	8627.2	8515.7	8468.8	8357.4	8222.5	7993.8
7.5°	8627.2	8603.7	8644.8	8609.6	8533.3	8533.3	8480.6	8322.2	8187.3	7929.3
10°	8451.2	8521.6	8486.4	8445.4	8463.0	8468.8	8369.1	8257.7	8216.6	7958.6
12.5°	8433.6	8316.3	8445.4	8451.2	8375.0	8369.1	8357.4	8328.1	8199.0	7964.5
15°	8375.0	8328.1	8457.1	8463.0	8480.6	8463.0	8480.6	8457.1	8328.1	8193.2
17.5°	8421.9	8369.1	8550.9	8638.9	8597.9	8680.0	8650.6	8545.1	8433.6	8275.3
20°	8433.6	8509.9	8709.3	8744.5	8873.5	8738.6	8732.7	8621.3	8550.9	8380.9
22.5°	8650.6	8685.8	8932.2	9008.4	9014.3	8996.7	8850.0	8721.0	8691.7	8480.6
25°	8979.1	9102.2	9213.7	9260.6	9278.2	9196.1	9043.6	8879.4	8809.0	8674.1
27.5°	9559.7	9483.4	9583.1	9653.5	9454.1	9483.4	9289.9	9149.2	9049.4	8932.2
30°	10075.8	10005.4	10011.3	9999.6	9829.5	9671.1	9618.3	9372.0	9248.9	9295.8
32.5°	10539.1	10386.6	10515.7	10457.0	10140.3	10093.4	10052.3	9741.5	9765.0	9982.0
35°	10967.3	10914.5	11020.0	10914.5	10703.3	10691.6	10650.5	10380.8	10509.8	10820.6
37.5°	11360.2	11377.8	11506.8	11454.0	11471.6	11483.4	11459.9	11172.5	11542.0	12239.9
40°	11723.8	11700.4	12017.1	12181.3	12216.5	12345.5	12345.5	12275.1	12844.0	13629.9
42.5°	12110.9	12169.5	12580.1	12855.7	13190.0	13301.5	13453.9	13489.1	14368.9	15266.2
45°	12744.3	12644.6	13166.6	13817.6	14110.8	14503.7	14738.3	14937.7	15999.3	17230.9
47.5°	13547.8	13348.4	13805.8	14750.1	15430.4	15753.0	16175.2	16439.1	17477.2	18749.9
50°	14439.2	14234.0	14456.8	15758.8	16550.6	17137.1	17676.6	18010.9	19266.0	20450.7
52.5°	15448.0	15260.3	15295.5	16808.6	17975.7	18403.9	19113.5	19612.0	20861.2	21477.0
55°	16521.3	16474.3	16362.9	17835.0	19224.9	20186.8	20614.9	21213.1	22497.5	22034.2
57.5°	17600.4	17453.8	17612.1	19195.6	21230.7	21805.5	22397.8	22755.6	23406.6	22521.0
60°	18615.0	18626.7	18849.6	20673.6	22937.4	23752.6	24286.3	24069.3	24339.1	22732.1
62.5°	19471.3	19447.8	20010.8	22333.3	25195.4	25746.6	26145.5	25177.8	24773.1	22937.4
65°	20239.6	20503.5	21389.1	24309.8	27318.4	27951.8	27711.4	26227.6	25195.4	22333.3
67.5°	20820.2	21213.1	22749.7	26168.9	29265.6	29711.3	29377.0	27025.2	24696.8	19963.9
70°	21160.3	21559.2	23723.3	27717.2	30819.7	31142.3	30356.4	26409.4	21787.9	14456.8
71°	21054.8	21541.6	23911.0	27881.5	31189.2	31429.7	30209.8	25271.6	19594.4	12105.0
72.5°	20098.8	20556.3	23130.9	27764.2	30743.5	30596.9	29066.1	22538.6	15424.5	7718.1
75°	14767.7	15260.3	19852.5	24016.5	27441.6	26432.8	23523.9	15817.5	8046.6	2363.5
77.5°	7354.5	7436.6	12322.0	17436.2	20128.1	19125.2	15764.7	8820.7	3008.7	697.9
80°	3389.9	3413.3	4621.5	9031.9	12169.5	11454.0	8832.4	4351.7	1360.6	369.5
82.5°	2310.7	2345.9	2785.8	3741.8	5284.2	4457.3	3577.6	2785.8	780.0	222.9
85°	422.3	387.1	1560.0	1982.3	2041.0	1384.1	1237.5	2410.4	293.2	129.0
87.5°	0.0	5.9	217.0	809.3	727.2	322.6	422.3	586.5	29.3	41.1
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°
7782.6	0°	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6	7782.6
7870.6	2.5°	7770.9	7706.4	7489.4	7248.9	7031.9	6861.9	6644.9	6545.2	6386.8	6298.8
7853.0	5°	7659.5	7483.5	7108.2	6703.5	6251.9	5876.6	5460.2	5225.6	4955.8	4873.7
7688.8	7.5°	7471.8	7219.6	6668.3	6099.4	5407.4	4744.7	4234.4	3689.0	3354.7	3213.9
7565.6	10°	7354.5	7049.5	6298.8	5448.4	4480.7	3548.2	2832.7	2252.1	1947.1	1800.5
7595.0	12.5°	7354.5	7026.1	5999.7	4826.8	3542.4	2428.0	1753.6	1419.3	1319.6	1284.4
7724.0	15°	7336.9	6979.2	5712.4	4187.5	2621.6	1630.4	1307.9	1237.5	1225.8	1219.9
7847.2	17.5°	7424.9	6897.1	5419.1	3501.3	1853.3	1284.4	1202.3	1190.6	1178.8	1178.8
7923.4	20°	7489.4	6850.1	5067.2	2774.1	1384.1	1190.6	1155.4	1137.8	1131.9	1126.0
7941.0	22.5°	7436.6	6779.8	4633.2	2076.2	1208.2	1131.9	1108.5	1090.9	1079.1	1079.1
8122.8	25°	7536.3	6715.2	4199.2	1565.9	1131.9	1079.1	1055.7	1043.9	1038.1	1032.2
8333.9	27.5°	7671.2	6744.6	3683.1	1260.9	1067.4	1026.3	1002.9	991.2	985.3	973.6
8662.4	30°	7835.4	6738.7	3114.2	1102.6	1008.8	967.7	944.2	938.4	926.6	920.8
9155.0	32.5°	8116.9	6891.2	2527.7	1020.5	944.2	909.1	885.6	879.7	873.9	868.0
9999.6	35°	8721.0	7078.9	1976.5	956.0	885.6	844.5	826.9	815.2	809.3	803.5
10984.8	37.5°	9465.9	7495.3	1507.3	897.3	826.9	785.9	768.3	762.4	739.0	733.1
12351.4	40°	10398.4	7941.0	1161.2	832.8	774.2	733.1	715.5	697.9	668.6	656.9
13747.2	42.5°	11559.6	8375.0	956.0	774.2	715.5	686.2	656.9	627.5	604.1	580.6
15143.0	45°	12720.8	8879.4	838.7	721.4	668.6	633.4	609.9	568.9	527.8	492.6
16462.6	47.5°	13688.5	9061.2	768.3	662.7	621.7	592.3	557.2	504.4	445.7	410.5
17424.4	50°	14409.9	8955.6	697.9	604.1	568.9	539.6	492.6	428.1	369.5	334.3
17764.6	52.5°	14550.7	8492.3	633.4	557.2	516.1	480.9	428.1	357.8	293.2	258.1
18134.1	55°	14451.0	7724.0	580.6	516.1	469.2	416.4	357.8	287.4	228.7	193.5
17993.3	57.5°	14245.7	6814.9	522.0	463.3	410.5	357.8	293.2	234.6	170.1	134.9
17670.8	60°	13547.8	5577.5	463.3	404.7	351.9	305.0	240.5	170.1	117.3	88.0
17107.7	62.5°	12574.2	4287.2	404.7	346.0	305.0	252.2	187.7	123.2	70.4	46.9
15524.2	65°	10797.2	3002.8	340.2	287.4	252.2	205.3	140.8	76.2	41.1	17.6
12644.6	67.5°	8204.9	1859.2	281.5	240.5	217.0	164.2	99.7	46.9	17.6	5.9
7888.2	70°	4709.5	967.7	222.9	193.5	170.1	123.2	70.4	23.5	11.7	0.0
5753.4	71°	3290.2	715.5	199.4	170.1	152.5	111.4	58.6	17.6	5.9	0.0
2973.5	72.5°	1648.0	475.1	170.1	140.8	123.2	88.0	46.9	17.6	5.9	0.0
868.0	75°	586.5	305.0	117.3	93.8	88.0	64.5	29.3	11.7	5.9	0.0
434.0	77.5°	404.7	246.3	82.1	58.6	58.6	41.1	17.6	5.9	5.9	0.0
340.2	80°	369.5	134.9	52.8	35.2	29.3	23.5	11.7	5.9	0.0	0.0
334.3	82.5°	369.5	99.7	29.3	23.5	17.6	11.7	5.9	0.0	0.0	0.0
293.2	85°	258.1	52.8	17.6	17.6	11.7	5.9	0.0	0.0	0.0	0.0
52.8	87.5°	41.1	17.6	11.7	5.9	5.9	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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