

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: P575465

Luminaire Tested: **EPH-VN-07-750-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575465
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-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

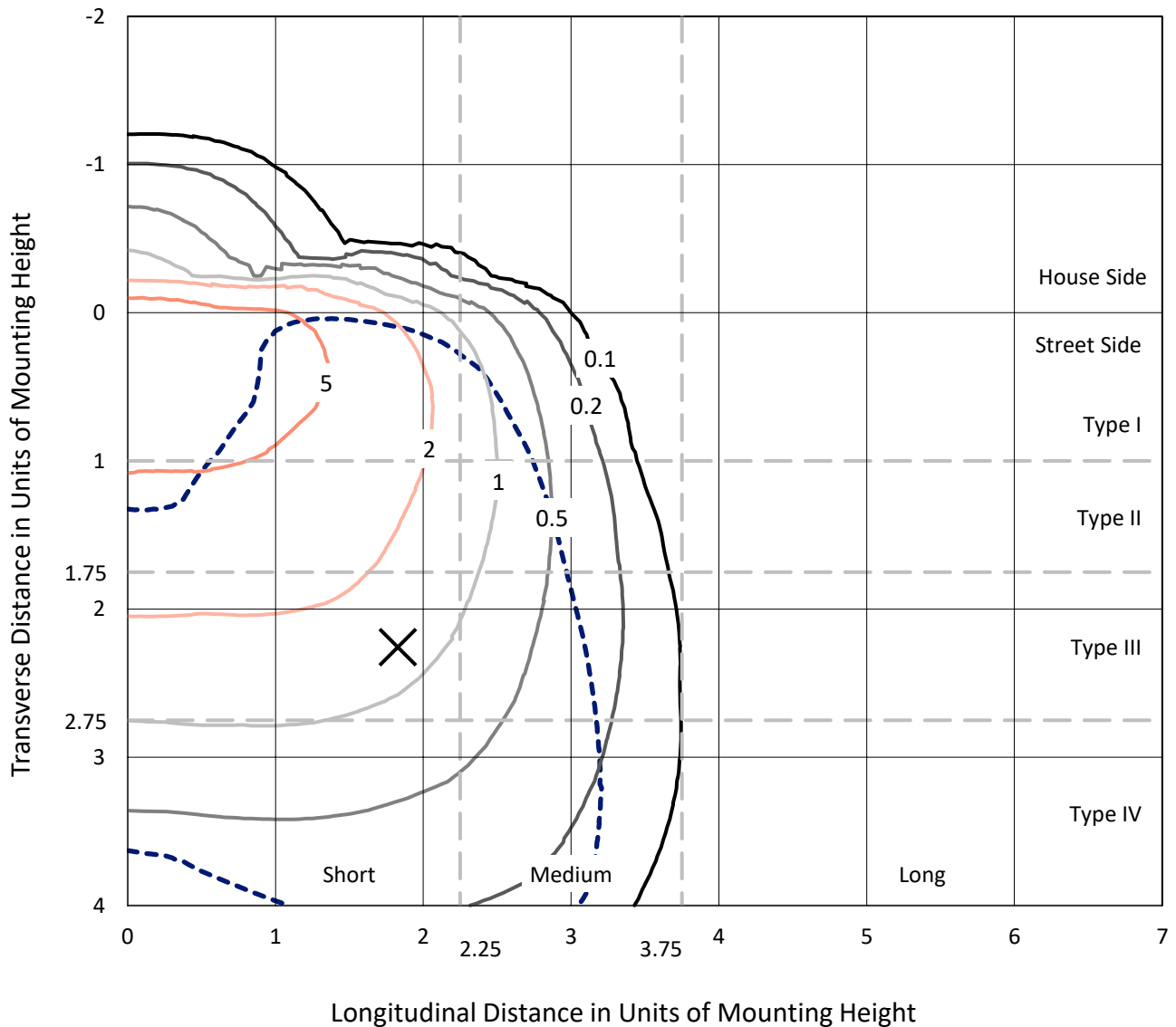
Lumens per Lamp: N/A
Luminaire Lumens: 47703.5 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

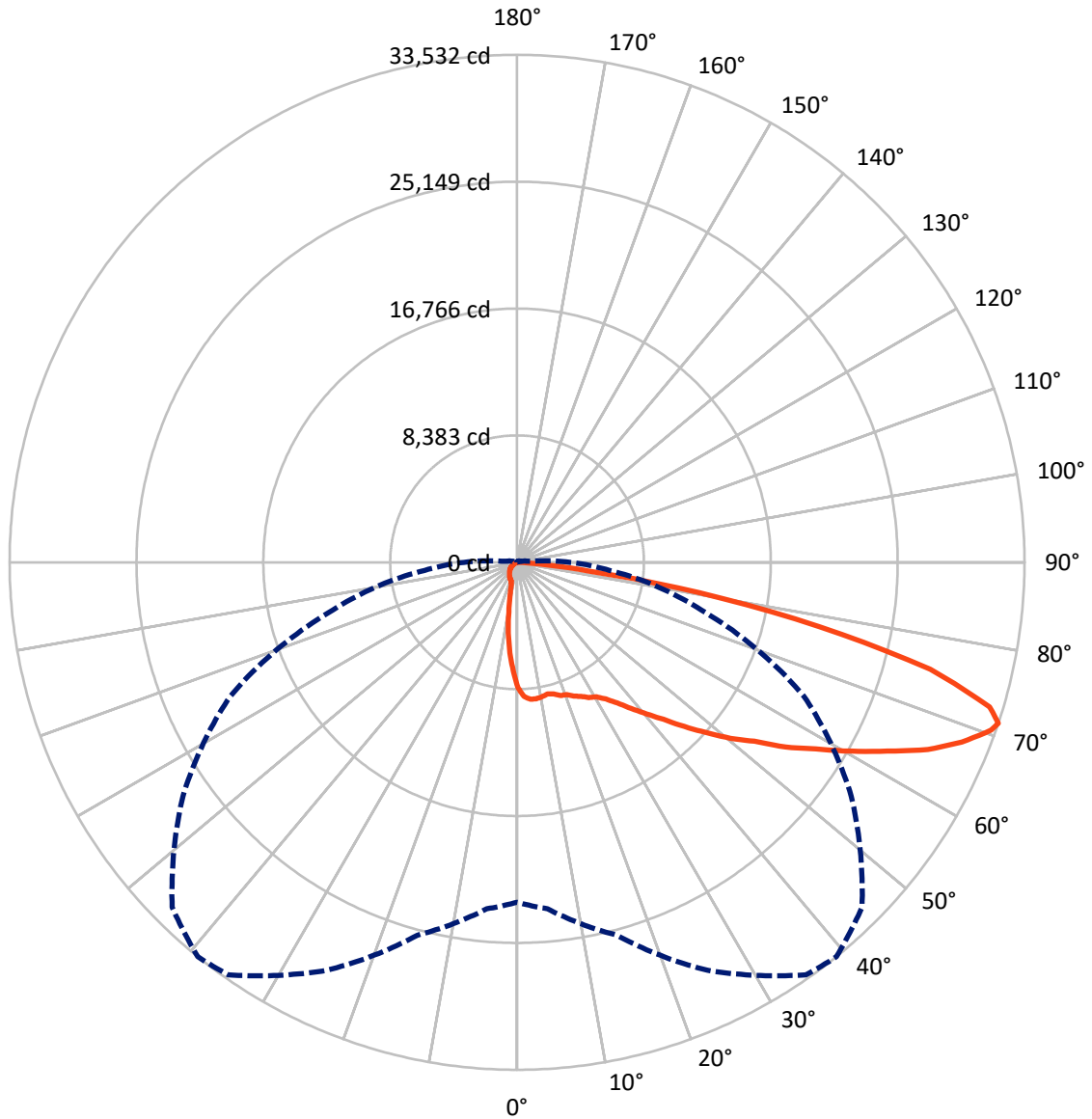
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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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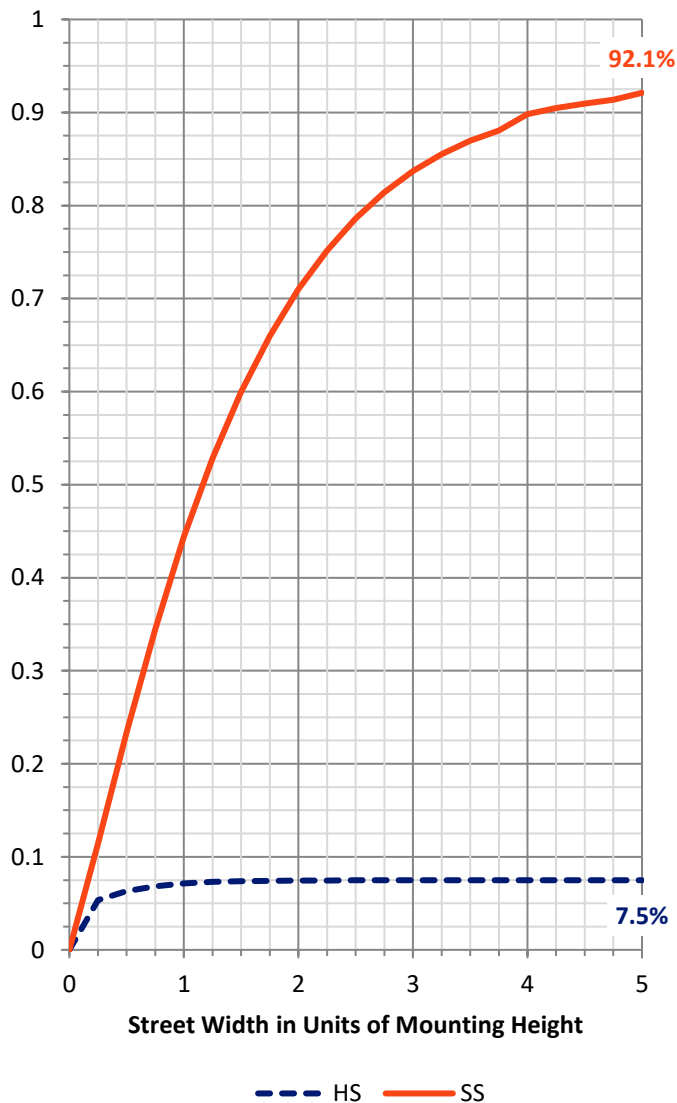
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3591.3	0.0	3591.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	44112.2	0.0	44112.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	47703.5	0.0	47703.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.2	1.5
10°-20°	1708.7	3.6
20°-30°	2743.0	5.8
30°-40°	4198.8	8.8
40°-50°	6739.8	14.1
50°-60°	9899.7	20.8
60°-70°	12468.3	26.1
70°-80°	8321.1	17.4
80°-90°	929.9	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°	47703.5	100.0
0°-180°	47703.5	100.0

Coefficient of Utilization

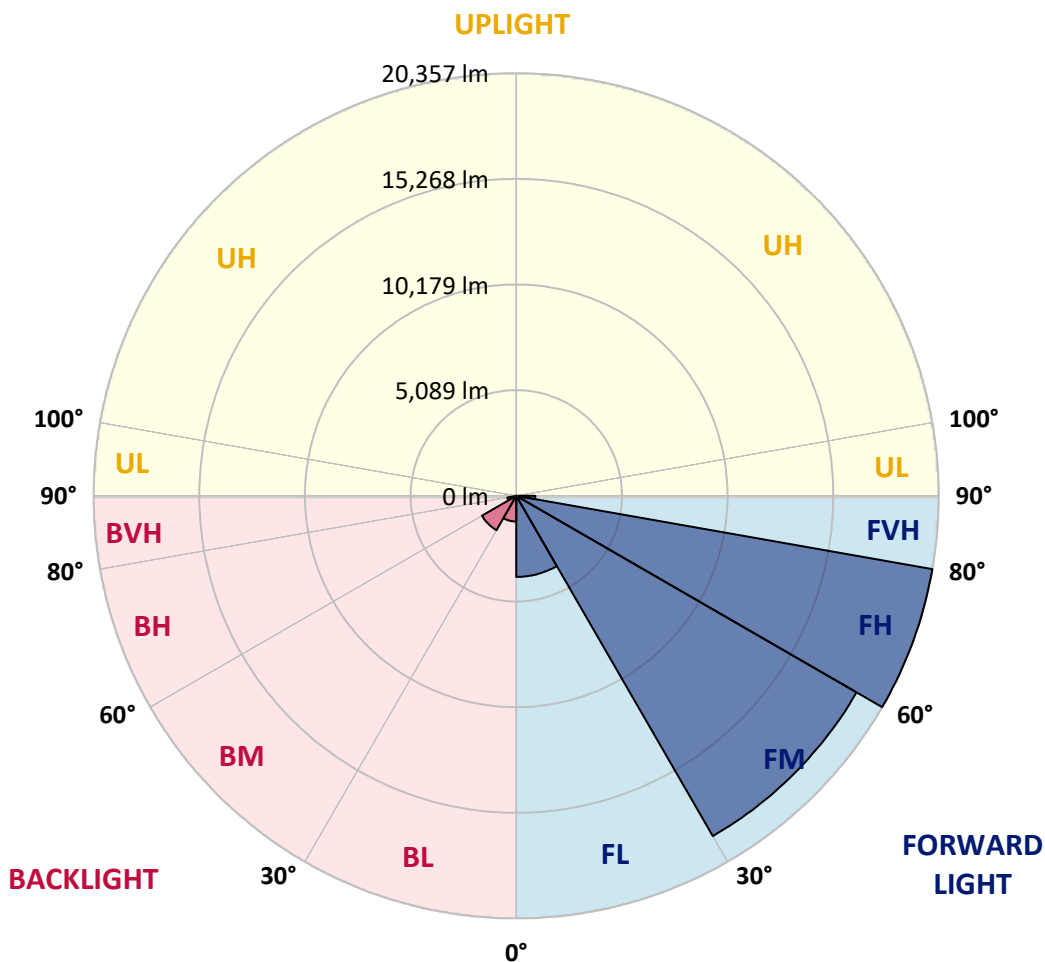


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3905.9	8.2			
FM (30°-60°)	18929.4	39.7			
FH (60°-80°)	20357.1	42.7			G5
FVH (80°-90°)	919.7	1.9			G5
BL (0°-30°)	1239.9	2.6	B3/2500		
BM (30°-60°)	1908.9	4.0	B2/2500		
BH (60°-80°)	432.3	0.9	B1/500		G1/500
BVH (80°-90°)	10.2	0.0			G1/100
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°	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1
2.5°	8947.6	9035.2	8947.6	8910.0	8872.5	8878.7	8778.6	8797.4	8678.5	8522.1
5°	9229.1	9348.0	9254.2	9210.4	9204.1	9085.2	9035.2	8916.3	8772.4	8528.3
7.5°	9204.1	9179.1	9222.9	9185.3	9104.0	9104.0	9047.7	8878.7	8734.8	8459.5
10°	9016.4	9091.5	9053.9	9010.1	9028.9	9035.2	8928.8	8809.9	8766.1	8490.8
12.5°	8997.6	8872.5	9010.1	9016.4	8935.1	8928.8	8916.3	8885.0	8747.3	8497.1
15°	8935.1	8885.0	9022.7	9028.9	9047.7	9028.9	9047.7	9022.7	8885.0	8741.1
17.5°	8985.1	8928.8	9122.8	9216.6	9172.8	9260.4	9229.1	9116.5	8997.6	8828.7
20°	8997.6	9079.0	9291.7	9329.2	9466.9	9323.0	9316.7	9197.9	9122.8	8941.3
22.5°	9229.1	9266.7	9529.5	9610.8	9617.1	9598.3	9441.9	9304.2	9272.9	9047.7
25°	9579.5	9710.9	9829.8	9879.9	9898.6	9811.0	9648.4	9473.2	9398.1	9254.2
27.5°	10199.0	10117.6	10224.0	10299.1	10086.4	10117.6	9911.2	9761.0	9654.6	9529.5
30°	10749.6	10674.5	10680.8	10668.3	10486.8	10317.9	10261.5	9998.8	9867.4	9917.4
32.5°	11243.9	11081.2	11218.9	11156.3	10818.4	10768.4	10724.6	10392.9	10418.0	10649.5
35°	11700.7	11644.4	11757.0	11644.4	11419.1	11406.6	11362.8	11075.0	11212.6	11544.2
37.5°	12119.9	12138.7	12276.3	12220.0	12238.8	12251.3	12226.3	11919.7	12313.9	13058.4
40°	12507.8	12482.8	12820.7	12995.9	13033.4	13171.1	13171.1	13096.0	13702.9	14541.4
42.5°	12920.8	12983.4	13421.4	13715.4	14072.1	14191.0	14353.7	14391.2	15329.8	16287.1
45°	13596.6	13490.2	14047.1	14741.6	15054.4	15473.7	15723.9	15936.7	17069.2	18383.2
47.5°	14453.8	14241.0	14729.1	15736.5	16462.3	16806.4	17256.9	17538.5	18646.0	20003.8
50°	15404.8	15185.8	15423.6	16812.7	17657.4	18283.1	18858.7	19215.4	20554.4	21818.3
52.5°	16481.0	16280.8	16318.4	17932.7	19177.8	19634.6	20391.7	20923.5	22256.3	22913.3
55°	17626.1	17576.0	17457.1	19027.7	20510.6	21536.7	21993.5	22631.7	24002.0	23507.7
57.5°	18777.4	18621.0	18789.9	20479.3	22650.5	23263.7	23895.6	24277.3	24971.9	24027.0
60°	19859.8	19872.4	20110.1	22056.1	24471.3	25341.0	25910.4	25678.9	25966.7	24252.3
62.5°	20773.4	20748.3	21349.0	23826.8	26880.2	27468.4	27893.9	26861.5	26429.7	24471.3
65°	21593.0	21874.6	22819.4	25935.4	29145.3	29821.1	29564.5	27981.5	26880.2	23826.8
67.5°	22212.5	22631.7	24271.1	27918.9	31222.6	31698.2	31341.5	28832.4	26348.4	21299.0
70°	22575.4	23000.9	25309.7	29570.8	32880.8	33224.9	32386.4	28175.5	23244.9	15423.6
71°	22462.8	22982.1	25510.0	29746.0	33274.9	33531.5	32230.0	26961.6	20904.8	12914.5
72.5°	21442.9	21930.9	24677.8	29620.8	32799.4	32643.0	31009.9	24045.8	16456.0	8234.3
75°	15755.2	16280.8	21180.1	25622.6	29276.7	28200.5	25097.0	16875.2	8584.7	2521.6
77.5°	7846.3	7933.9	13146.0	18602.2	21474.2	20404.2	16818.9	9410.6	3209.9	744.6
80°	3616.6	3641.6	4930.5	9635.8	12983.4	12220.0	9423.1	4642.7	1451.6	394.2
82.5°	2465.3	2502.8	2972.1	3992.0	5637.6	4755.4	3816.8	2972.1	832.2	237.8
85°	450.5	413.0	1664.4	2114.9	2177.5	1476.7	1320.2	2571.6	312.9	137.7
87.5°	0.0	6.3	231.5	863.5	775.9	344.1	450.5	625.7	31.3	43.8
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°
8303.1	0°	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1
8396.9	2.5°	8290.6	8221.8	7990.2	7733.7	7502.2	7320.7	7089.2	6982.9	6813.9	6720.1
8378.2	5°	8171.7	7984.0	7583.5	7151.8	6670.0	6269.6	5825.3	5575.0	5287.2	5199.6
8203.0	7.5°	7971.5	7702.4	7114.3	6507.3	5769.0	5061.9	4517.6	3935.7	3579.0	3428.9
8071.6	10°	7846.3	7521.0	6720.1	5812.8	4780.4	3785.5	3022.2	2402.7	2077.3	1920.9
8102.9	12.5°	7846.3	7495.9	6401.0	5149.5	3779.3	2590.4	1870.9	1514.2	1407.8	1370.3
8240.5	15°	7827.6	7445.9	6094.4	4467.5	2796.9	1739.5	1395.3	1320.2	1307.7	1301.5
8371.9	17.5°	7921.4	7358.3	5781.5	3735.5	1977.2	1370.3	1282.7	1270.2	1257.7	1257.7
8453.3	20°	7990.2	7308.2	5406.1	2959.6	1476.7	1270.2	1232.6	1213.9	1207.6	1201.4
8472.0	22.5°	7933.9	7233.1	4943.1	2215.0	1289.0	1207.6	1182.6	1163.8	1151.3	1151.3
8666.0	25°	8040.3	7164.3	4480.0	1670.6	1207.6	1151.3	1126.3	1113.8	1107.5	1101.2
8891.3	27.5°	8184.2	7195.6	3929.4	1345.3	1138.8	1095.0	1070.0	1057.4	1051.2	1038.7
9241.7	30°	8359.4	7189.3	3322.5	1176.3	1076.2	1032.4	1007.4	1001.1	988.6	982.4
9767.2	32.5°	8659.7	7352.0	2696.8	1088.7	1007.4	969.8	944.8	938.6	932.3	926.0
10668.3	35°	9304.2	7552.2	2108.6	1019.9	944.8	901.0	882.2	869.7	863.5	857.2
11719.4	37.5°	10098.9	7996.5	1608.1	957.3	882.2	838.4	819.7	813.4	788.4	782.1
13177.3	40°	11093.7	8472.0	1238.9	888.5	825.9	782.1	763.4	744.6	713.3	700.8
14666.5	42.5°	12332.6	8935.1	1019.9	825.9	763.4	732.1	700.8	669.5	644.5	619.4
16155.7	45°	13571.5	9473.2	894.8	769.6	713.3	675.8	650.7	606.9	563.1	525.6
17563.5	47.5°	14603.9	9667.1	819.7	707.0	663.2	632.0	594.4	538.1	475.5	438.0
18589.7	50°	15373.6	9554.5	744.6	644.5	606.9	575.6	525.6	456.8	394.2	356.7
18952.6	52.5°	15523.7	9060.2	675.8	594.4	550.6	513.1	456.8	381.7	312.9	275.3
19346.8	55°	15417.3	8240.5	619.4	550.6	500.6	444.2	381.7	306.6	244.0	206.5
19196.6	57.5°	15198.4	7270.7	556.9	494.3	438.0	381.7	312.9	250.3	181.5	143.9
18852.5	60°	14453.8	5950.4	494.3	431.7	375.4	325.4	256.5	181.5	125.1	93.9
18251.8	62.5°	13415.1	4573.9	431.7	369.2	325.4	269.1	200.2	131.4	75.1	50.1
16562.4	65°	11519.2	3203.6	362.9	306.6	269.1	219.0	150.2	81.3	43.8	18.8
13490.2	67.5°	8753.6	1983.5	300.3	256.5	231.5	175.2	106.4	50.1	18.8	6.3
8415.7	70°	5024.4	1032.4	237.8	206.5	181.5	131.4	75.1	25.0	12.5	0.0
6138.2	71°	3510.2	763.4	212.7	181.5	162.7	118.9	62.6	18.8	6.3	0.0
3172.3	72.5°	1758.2	506.8	181.5	150.2	131.4	93.9	50.1	18.8	6.3	0.0
926.0	75°	625.7	325.4	125.1	100.1	93.9	68.8	31.3	12.5	6.3	0.0
463.0	77.5°	431.7	262.8	87.6	62.6	62.6	43.8	18.8	6.3	6.3	0.0
362.9	80°	394.2	143.9	56.3	37.5	31.3	25.0	12.5	6.3	0.0	0.0
356.7	82.5°	394.2	106.4	31.3	25.0	18.8	12.5	6.3	0.0	0.0	0.0
312.9	85°	275.3	56.3	18.8	18.8	12.5	6.3	0.0	0.0	0.0	0.0
56.3	87.5°	43.8	18.8	12.5	6.3	6.3	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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