

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: P575460

Luminaire Tested: **EPH-VN-08-740-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575460
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

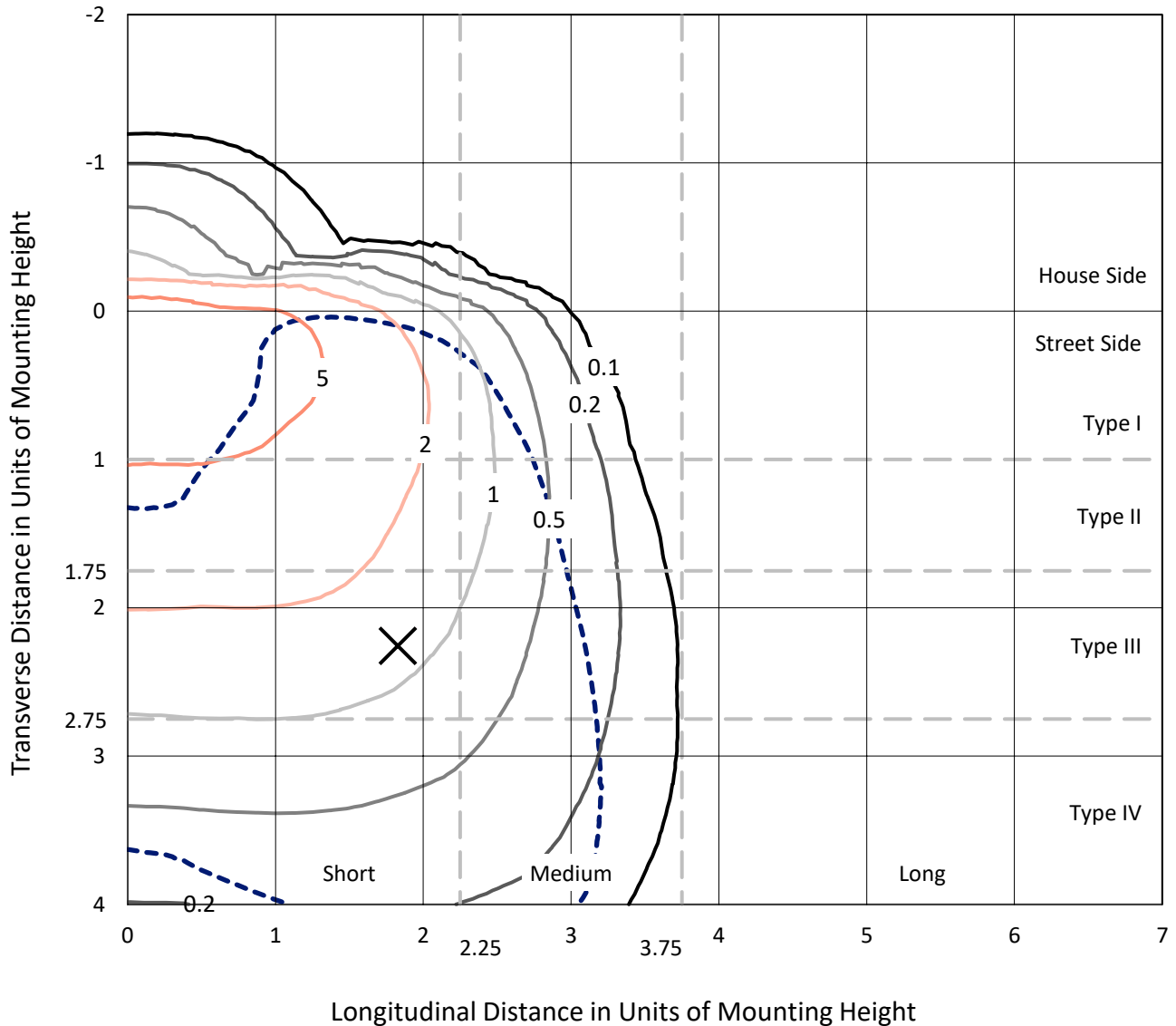
Lumens per Lamp: N/A
Luminaire Lumens: 46054.1 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

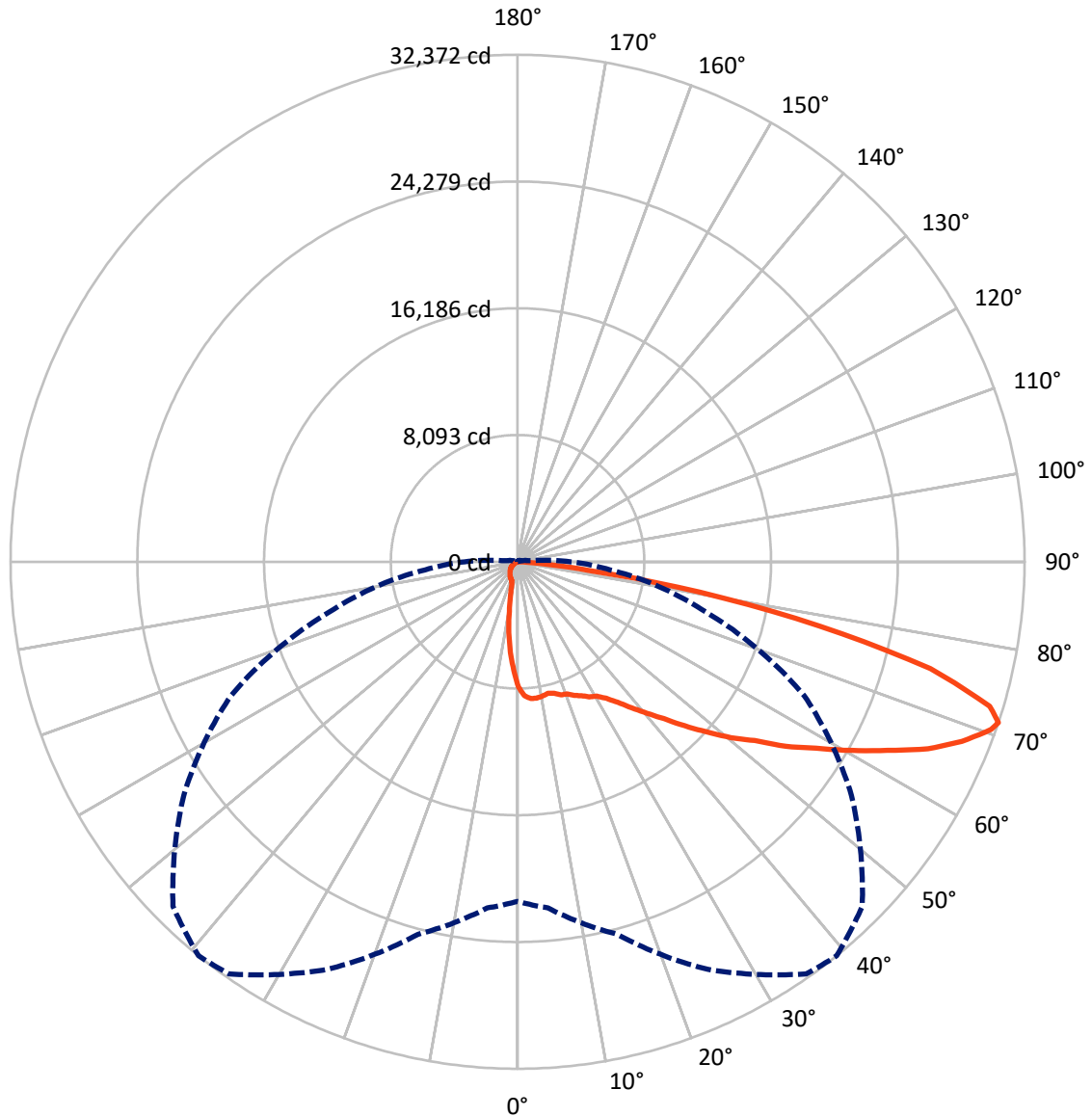
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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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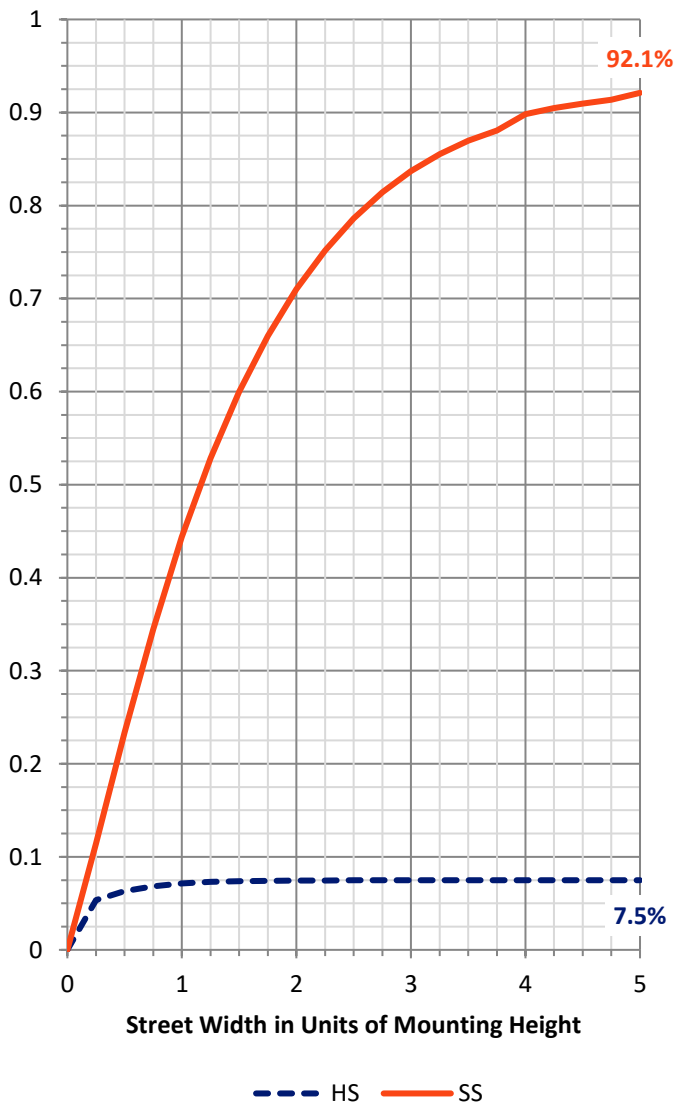
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3467.1	0.0	3467.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	42587.0	0.0	42587.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	46054.1	0.0	46054.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.2	1.5
10°-20°	1649.6	3.6
20°-30°	2648.1	5.8
30°-40°	4053.6	8.8
40°-50°	6506.8	14.1
50°-60°	9557.4	20.8
60°-70°	12037.2	26.1
70°-80°	8033.3	17.4
80°-90°	897.8	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°	46054.1	100.0
0°-180°	46054.1	100.0

Coefficient of Utilization

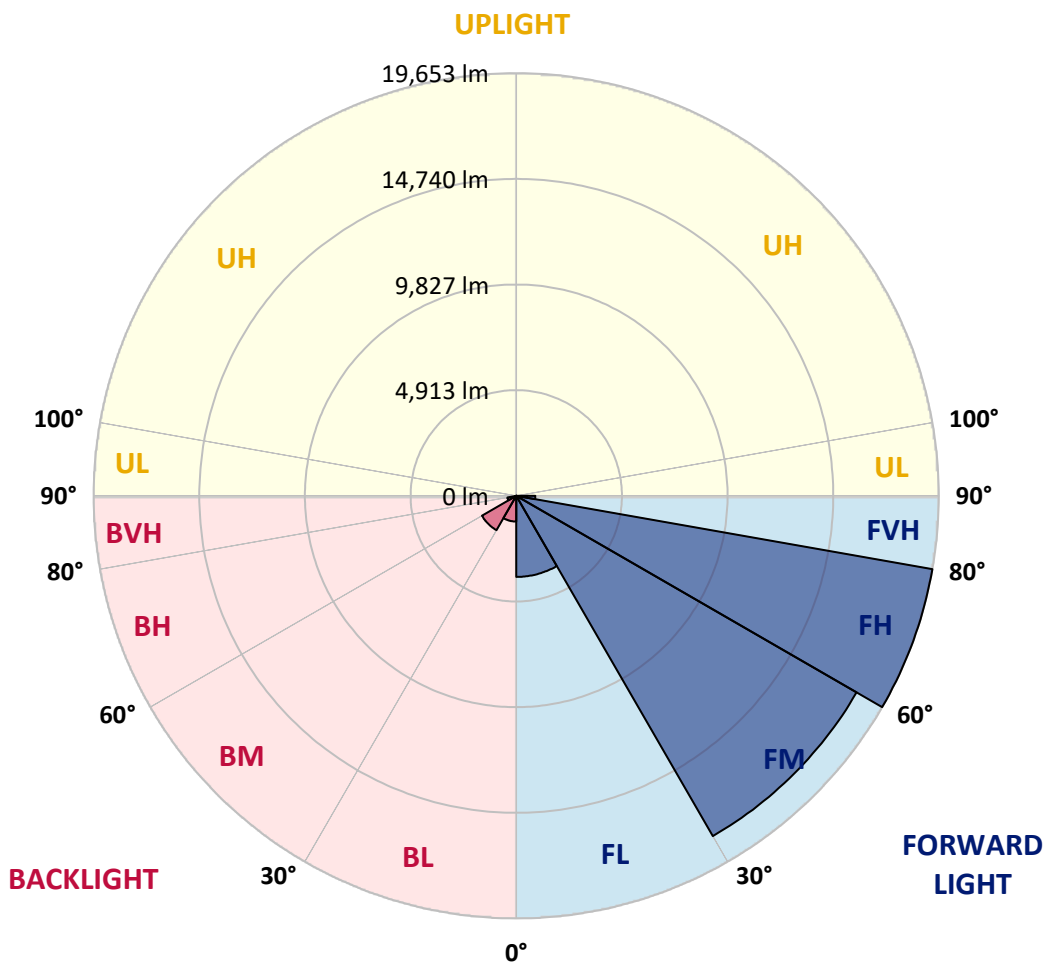


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3770.9	8.2			
FM (30°-60°)	18274.9	39.7			
FH (60°-80°)	19653.3	42.7			G5
FVH (80°-90°)	887.9	1.9			G5
BL (0°-30°)	1197.0	2.6	B3/2500		
BM (30°-60°)	1842.9	4.0	B2/2500		
BH (60°-80°)	417.3	0.9	B1/500		G1/500
BVH (80°-90°)	9.9	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°	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0
2.5°	8638.2	8722.8	8638.2	8602.0	8565.7	8571.8	8475.1	8493.2	8378.5	8227.4
5°	8910.0	9024.8	8934.2	8891.9	8885.9	8771.1	8722.8	8608.0	8469.1	8233.5
7.5°	8885.9	8861.7	8904.0	8867.8	8789.2	8789.2	8734.9	8571.8	8432.8	8167.0
10°	8704.7	8777.1	8740.9	8698.6	8716.7	8722.8	8620.1	8505.3	8463.0	8197.2
12.5°	8686.5	8565.7	8698.6	8704.7	8626.1	8620.1	8608.0	8577.8	8444.9	8203.3
15°	8626.1	8577.8	8710.7	8716.7	8734.9	8716.7	8734.9	8710.7	8577.8	8438.9
17.5°	8674.4	8620.1	8807.3	8898.0	8855.7	8940.2	8910.0	8801.3	8686.5	8523.4
20°	8686.5	8765.1	8970.4	9006.7	9139.6	9000.6	8994.6	8879.8	8807.3	8632.2
22.5°	8910.0	8946.3	9200.0	9278.5	9284.6	9266.4	9115.4	8982.5	8952.3	8734.9
25°	9248.3	9375.2	9489.9	9538.3	9556.4	9471.8	9314.8	9145.6	9073.1	8934.2
27.5°	9846.3	9767.8	9870.5	9943.0	9737.6	9767.8	9568.5	9423.5	9320.8	9200.0
30°	10377.9	10305.4	10311.5	10299.4	10124.2	9961.1	9906.8	9653.0	9526.2	9574.5
32.5°	10855.1	10698.1	10831.0	10770.6	10444.4	10396.0	10353.8	10033.6	10057.8	10281.3
35°	11296.1	11241.7	11350.5	11241.7	11024.3	11012.2	10969.9	10692.0	10824.9	11145.1
37.5°	11700.8	11719.0	11851.9	11797.5	11815.6	11827.7	11803.5	11507.5	11888.1	12606.9
40°	12075.4	12051.2	12377.4	12546.5	12582.8	12715.7	12715.7	12643.2	13229.1	14038.6
42.5°	12474.0	12534.5	12957.3	13241.2	13585.5	13700.3	13857.4	13893.6	14799.7	15723.9
45°	13126.4	13023.8	13561.4	14231.9	14533.9	14938.7	15180.3	15385.7	16479.0	17747.6
47.5°	13954.0	13748.6	14219.8	15192.4	15893.1	16225.3	16660.3	16932.1	18001.3	19312.1
50°	14872.2	14660.8	14890.3	16231.4	17046.9	17650.9	18206.7	18551.0	19843.7	21063.9
52.5°	15911.2	15717.9	15754.2	17312.7	18514.8	18955.7	19686.6	20200.1	21486.8	22121.0
55°	17016.7	16968.3	16853.6	18369.8	19801.4	20792.1	21233.1	21849.2	23172.1	22694.9
57.5°	18128.1	17977.1	18140.2	19771.2	21867.3	22459.3	23069.4	23437.9	24108.4	23196.3
60°	19173.2	19185.3	19414.8	21293.5	23625.2	24464.8	25014.5	24791.0	25068.9	23413.8
62.5°	20055.1	20031.0	20610.9	23003.0	25950.9	26518.7	26929.4	25932.7	25515.9	23625.2
65°	20846.5	21118.3	22030.4	25038.7	28137.6	28790.0	28542.3	27014.0	25950.9	23003.0
67.5°	21444.5	21849.2	23431.9	26953.6	30143.1	30602.2	30257.9	27835.6	25437.4	20562.5
70°	21794.9	22205.6	24434.6	28548.4	31743.9	32076.1	31266.7	27201.3	22441.2	14890.3
71°	21686.1	22187.5	24627.9	28717.5	32124.5	32372.1	31115.7	26029.4	20182.0	12468.0
72.5°	20701.5	21172.7	23824.5	28596.7	31665.4	31514.3	29937.7	23214.4	15887.0	7949.6
75°	15210.5	15717.9	20447.8	24736.7	28264.4	27225.4	24229.3	16291.8	8287.8	2434.4
77.5°	7575.0	7659.6	12691.5	17959.0	20731.7	19698.7	16237.4	9085.2	3098.9	718.8
80°	3491.5	3515.7	4760.1	9302.7	12534.5	11797.5	9097.3	4482.2	1401.4	380.6
82.5°	2380.0	2416.3	2869.3	3854.0	5442.7	4590.9	3684.8	2869.3	803.4	229.5
85°	434.9	398.7	1606.8	2041.8	2102.2	1425.6	1274.6	2482.7	302.0	132.9
87.5°	0.0	6.0	223.5	833.6	749.0	332.2	434.9	604.1	30.2	42.3
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°
8016.0	0°	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0	8016.0
8106.6	2.5°	8003.9	7937.5	7714.0	7466.3	7242.8	7067.6	6844.1	6741.4	6578.3	6487.7
8088.5	5°	7889.2	7707.9	7321.3	6904.5	6439.4	6052.8	5623.9	5382.3	5104.4	5019.8
7919.4	7.5°	7695.9	7436.1	6868.3	6282.3	5569.5	4886.9	4361.4	3799.6	3455.3	3310.3
7792.5	10°	7575.0	7260.9	6487.7	5611.8	4615.1	3654.6	2917.7	2319.6	2005.5	1854.5
7822.7	12.5°	7575.0	7236.8	6179.6	4971.5	3648.6	2500.9	1806.2	1461.8	1359.2	1322.9
7955.6	15°	7556.9	7188.4	5883.6	4313.1	2700.2	1679.3	1347.1	1274.6	1262.5	1256.5
8082.5	17.5°	7647.5	7103.9	5581.6	3606.3	1908.9	1322.9	1238.3	1226.3	1214.2	1214.2
8161.0	20°	7714.0	7055.5	5219.2	2857.3	1425.6	1226.3	1190.0	1171.9	1165.9	1159.8
8179.1	22.5°	7659.6	6983.1	4772.2	2138.4	1244.4	1165.9	1141.7	1123.6	1111.5	1111.5
8366.4	25°	7762.3	6916.6	4325.1	1612.9	1165.9	1111.5	1087.3	1075.2	1069.2	1063.2
8583.8	27.5°	7901.2	6946.8	3793.6	1298.8	1099.4	1057.1	1033.0	1020.9	1014.8	1002.8
8922.1	30°	8070.4	6940.8	3207.6	1135.7	1039.0	996.7	972.6	966.5	954.4	948.4
9429.5	32.5°	8360.3	7097.8	2603.5	1051.1	972.6	936.3	912.1	906.1	900.1	894.0
10299.4	35°	8982.5	7291.1	2035.7	984.6	912.1	869.9	851.7	839.7	833.6	827.6
11314.2	37.5°	9749.7	7720.0	1552.5	924.2	851.7	809.5	791.3	785.3	761.1	755.1
12721.7	40°	10710.2	8179.1	1196.1	857.8	797.4	755.1	737.0	718.8	688.6	676.6
14159.4	42.5°	11906.2	8626.1	984.6	797.4	737.0	706.8	676.6	646.4	622.2	598.0
15597.1	45°	13102.3	9145.6	863.8	743.0	688.6	652.4	628.2	585.9	543.7	507.4
16956.2	47.5°	14099.0	9332.9	791.3	682.6	640.3	610.1	573.9	519.5	459.1	422.8
17946.9	50°	14842.0	9224.2	718.8	622.2	585.9	555.7	507.4	441.0	380.6	344.3
18297.3	52.5°	14987.0	8746.9	652.4	573.9	531.6	495.3	441.0	368.5	302.0	265.8
18677.8	55°	14884.3	7955.6	598.0	531.6	483.3	428.9	368.5	296.0	235.6	199.3
18532.9	57.5°	14672.9	7019.3	537.6	477.2	422.8	368.5	302.0	241.6	175.2	138.9
18200.6	60°	13954.0	5744.7	477.2	416.8	362.4	314.1	247.7	175.2	120.8	90.6
17620.7	62.5°	12951.3	4415.8	416.8	356.4	314.1	259.8	193.3	126.9	72.5	48.3
15989.7	65°	11120.9	3092.8	350.4	296.0	259.8	211.4	145.0	78.5	42.3	18.1
13023.8	67.5°	8450.9	1914.9	290.0	247.7	223.5	169.1	102.7	48.3	18.1	6.0
8124.7	70°	4850.7	996.7	229.5	199.3	175.2	126.9	72.5	24.2	12.1	0.0
5925.9	71°	3388.8	737.0	205.4	175.2	157.1	114.8	60.4	18.1	6.0	0.0
3062.6	72.5°	1697.4	489.3	175.2	145.0	126.9	90.6	48.3	18.1	6.0	0.0
894.0	75°	604.1	314.1	120.8	96.7	90.6	66.4	30.2	12.1	6.0	0.0
447.0	77.5°	416.8	253.7	84.6	60.4	60.4	42.3	18.1	6.0	6.0	0.0
350.4	80°	380.6	138.9	54.4	36.2	30.2	24.2	12.1	6.0	0.0	0.0
344.3	82.5°	380.6	102.7	30.2	24.2	18.1	12.1	6.0	0.0	0.0	0.0
302.0	85°	265.8	54.4	18.1	18.1	12.1	6.0	0.0	0.0	0.0	0.0
54.4	87.5°	42.3	18.1	12.1	6.0	6.0	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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