

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: P575421

Luminaire Tested: **EPH-VN-03-750-U-SL3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575421
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-750-U-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

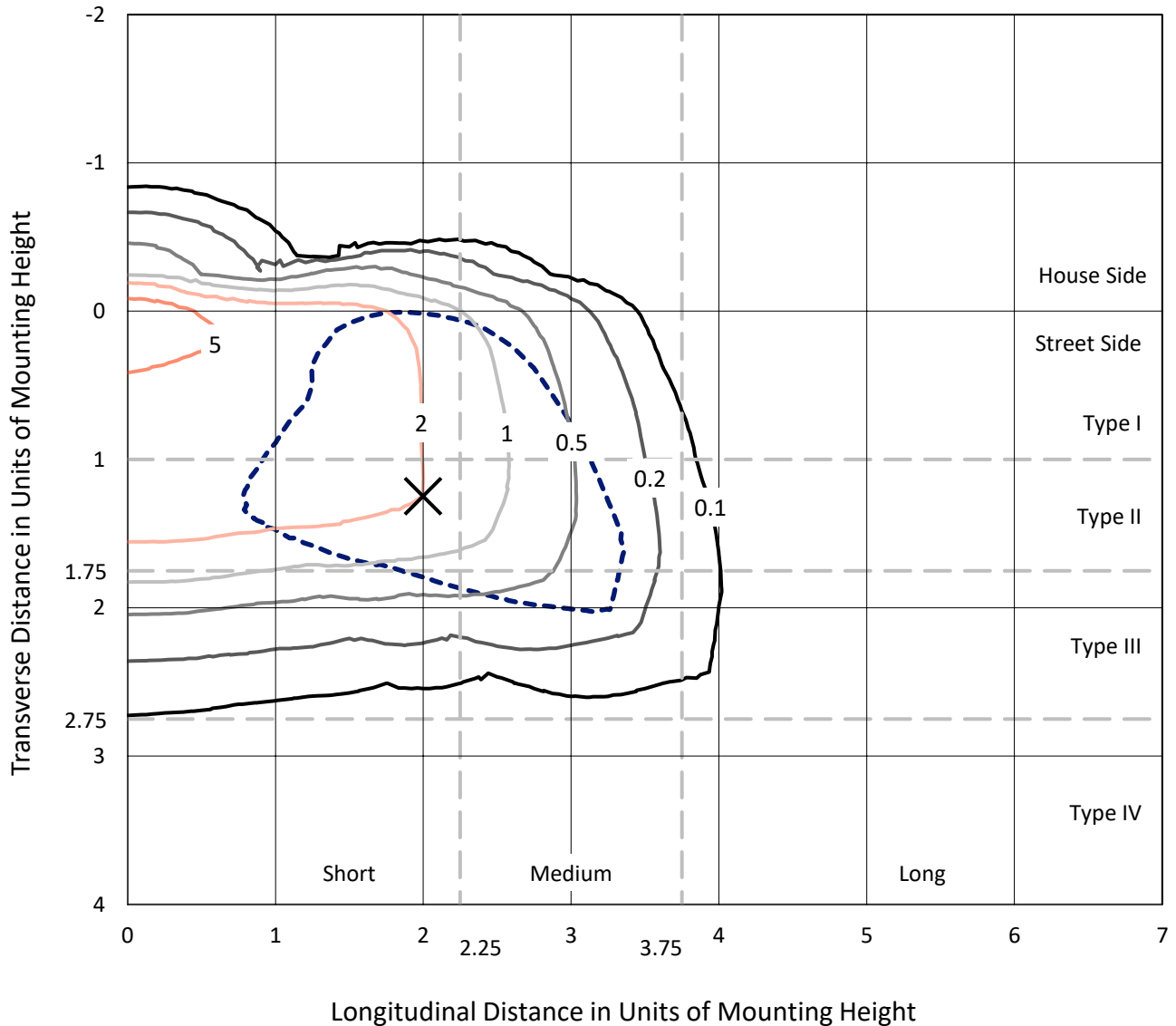
Lumens per Lamp: N/A
Luminaire Lumens: 19938.5 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

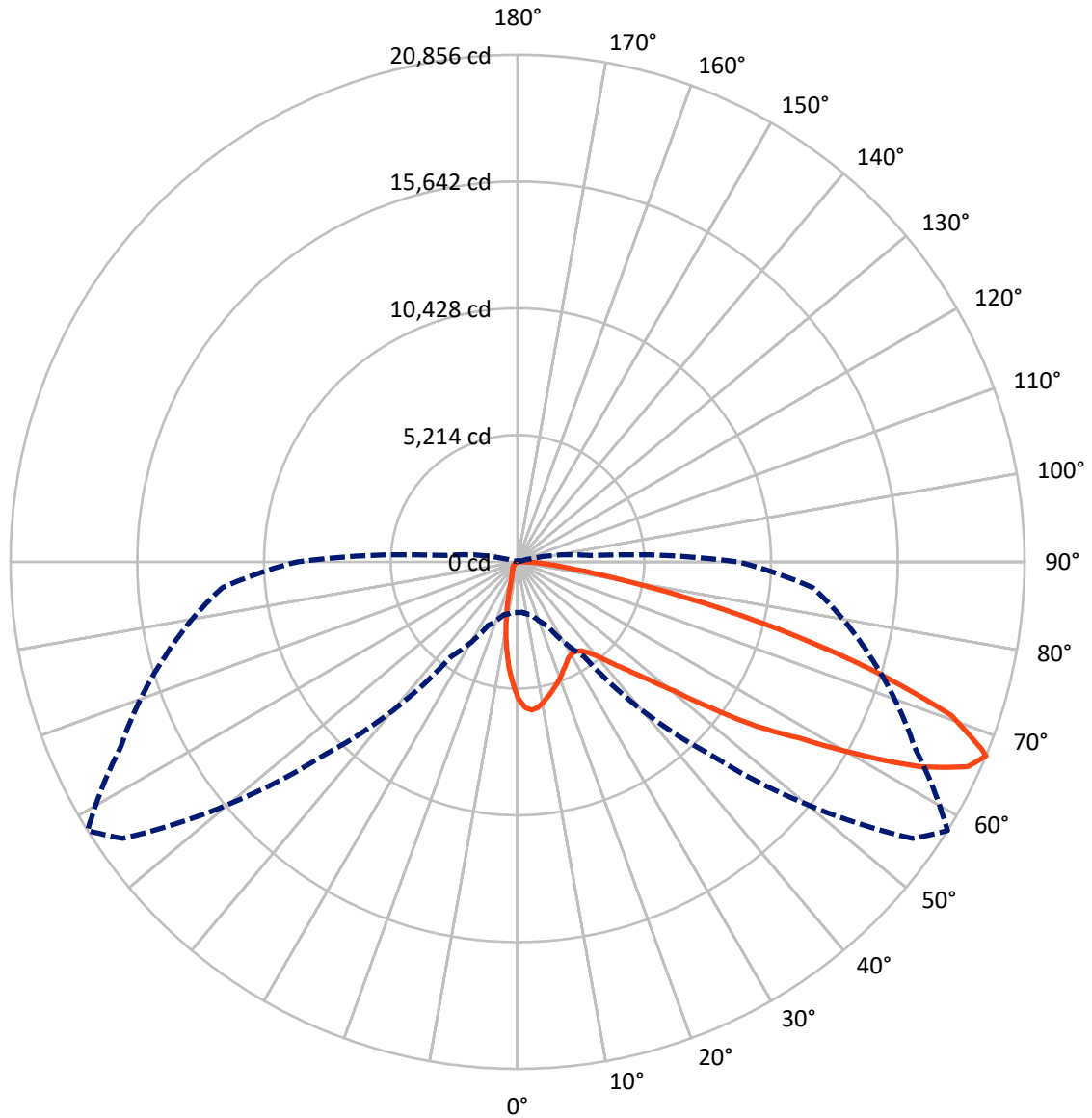
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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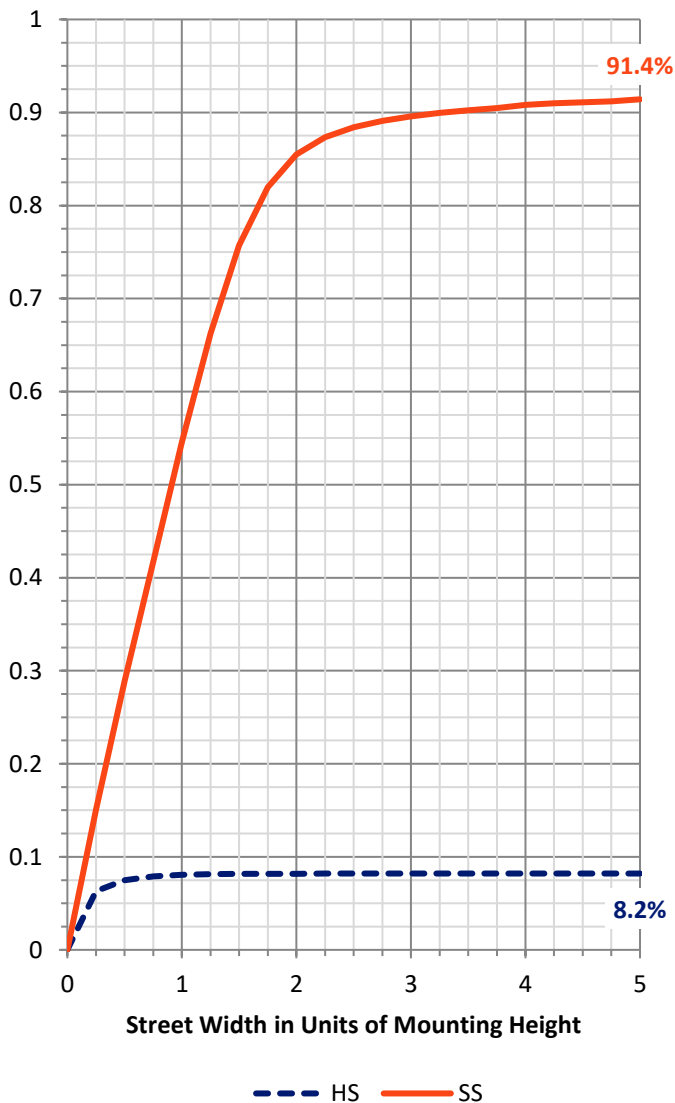
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1648.0	0.0	1648.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	18290.4	0.0	18290.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	19938.5	0.0	19938.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	2.2
10°-20°	929.7	4.7
20°-30°	1233.5	6.2
30°-40°	1709.2	8.6
40°-50°	2788.9	14.0
50°-60°	4902.0	24.6
60°-70°	5429.4	27.2
70°-80°	2249.9	11.3
80°-90°	247.7	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°	19938.5	100.0
0°-180°	19938.5	100.0

Coefficient of Utilization



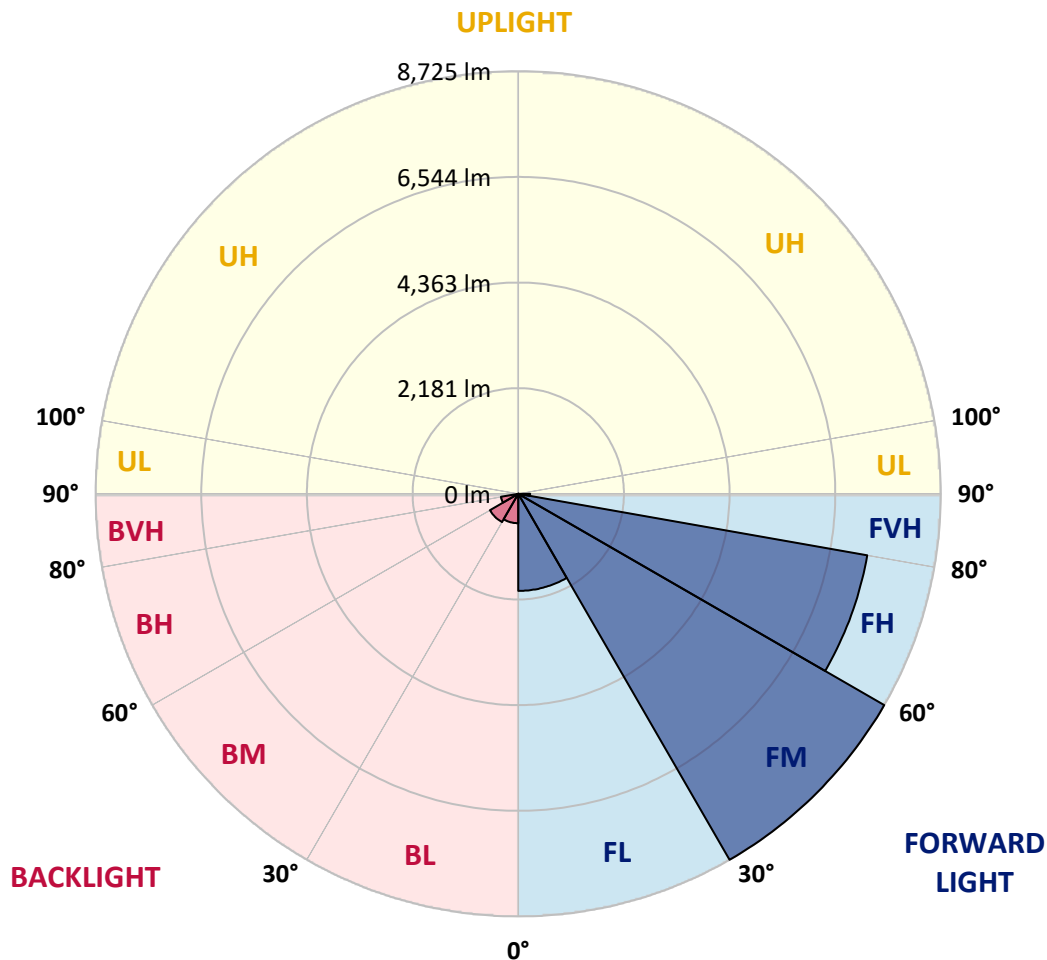
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.4	10.1			
FM (30°-60°)	8725.5	43.8			
FH (60°-80°)	7317.0	36.7			G3/7500
FVH (80°-90°)	243.6	1.2			G3/500
BL (0°-30°)	607.0	3.0	B2/1000		
BM (30°-60°)	674.7	3.4	B1/1000		
BH (60°-80°)	362.3	1.8	B1/500		G1/500
BVH (80°-90°)	4.1	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8
2.5°	6146.5	6167.7	6186.2	6151.8	6180.9	6138.5	6030.0	6006.2	5987.7	5826.2
5°	6143.8	6120.0	6138.5	6154.4	6114.7	6146.5	6120.0	6122.7	6051.2	5905.6
7.5°	5733.5	5723.0	5733.5	5810.3	5897.7	5966.5	6006.2	6045.9	5998.3	5781.2
10°	5180.3	5233.2	5262.4	5400.0	5535.0	5662.1	5786.5	5860.6	5847.4	5760.0
12.5°	4793.8	4778.0	4883.8	4973.8	5108.8	5365.6	5582.7	5651.5	5730.9	5609.1
15°	4436.5	4394.1	4457.7	4613.8	4844.1	5048.0	5352.4	5455.6	5556.2	5588.0
17.5°	4095.0	4116.2	4182.4	4322.7	4539.7	4825.6	5111.5	5259.7	5500.6	5458.2
20°	3930.9	3975.9	3999.7	4071.2	4222.1	4508.0	4934.1	5053.2	5310.0	5455.6
22.5°	3938.8	3938.8	3883.2	3925.6	4063.2	4285.6	4693.2	4825.6	5233.2	5318.0
25°	4023.5	3970.6	3973.2	3923.0	3981.2	4103.0	4476.2	4637.7	5077.1	5331.2
27.5°	4087.1	4076.5	4060.6	4047.4	3973.2	3991.8	4333.2	4465.6	5016.2	5315.3
30°	4317.4	4269.7	4253.8	4224.7	4126.8	4036.8	4219.4	4386.2	4968.5	5352.4
32.5°	4510.6	4518.5	4531.8	4447.1	4362.4	4140.0	4251.2	4383.5	4934.1	5437.1
35°	4754.1	4788.5	4793.8	4767.4	4677.4	4457.7	4383.5	4497.4	4992.4	5588.0
37.5°	5124.7	5087.7	5188.2	5198.8	5135.3	4844.1	4690.6	4735.6	5164.4	5828.8
40°	5365.6	5410.6	5598.5	5715.0	5606.5	5341.8	5135.3	5127.4	5413.2	6207.4
42.5°	5633.0	5733.5	5940.0	6191.5	6178.3	5932.1	5723.0	5688.5	5855.3	6755.3
45°	5998.3	6088.3	6376.8	6755.3	6961.8	6752.7	6437.7	6368.8	6392.7	7501.8
47.5°	6604.4	6580.6	6996.2	7369.4	7708.3	7546.8	7411.8	7210.6	7192.1	8380.6
50°	7290.0	7284.7	7655.3	8078.8	8470.6	8785.6	8560.6	8340.9	8346.2	9574.4
52.5°	7941.2	8044.4	8444.1	8865.0	9537.4	9876.2	10093.3	10005.9	9585.0	10641.2
55°	8285.3	8375.3	8772.4	9497.7	10559.1	11430.0	12017.7	11943.6	11130.9	11843.0
57.5°	7959.7	8020.6	8558.0	9508.3	11273.9	13216.8	13780.6	13688.0	12729.7	12761.5
60°	6596.5	6691.8	7491.2	8605.6	10995.9	14593.3	16208.0	16067.7	14185.6	13923.6
62.5°	4568.8	4632.4	5288.8	6675.9	9677.7	15072.4	18500.3	18577.1	15720.9	14828.9
65°	2959.4	2954.1	3330.0	4269.7	6858.5	13621.8	19855.6	20332.1	17203.3	14966.5
67°	2091.2	2083.2	2260.6	2895.9	4748.8	11223.6	19831.8	20856.2	18008.0	15006.2
67.5°	1929.7	1921.8	2091.2	2662.9	4285.6	10437.4	19535.3	20586.2	18291.2	14950.6
70°	1498.2	1477.1	1540.6	1834.4	2496.2	6750.0	16718.9	18910.6	17703.6	13563.6
72.5°	1082.6	1106.5	1207.1	1506.2	1958.8	3631.8	12743.0	15292.1	14786.5	10223.0
75°	754.4	775.6	937.1	1228.2	1797.4	2202.4	8616.2	11091.2	10299.7	5643.5
77.5°	394.4	420.9	598.2	982.1	1633.2	1704.7	5148.5	7033.3	5458.2	2009.1
80°	182.6	195.9	299.1	696.2	1365.9	1498.2	3001.8	3912.4	2183.8	450.0
82.5°	79.4	87.4	137.6	399.7	968.8	1310.3	1858.2	2051.5	791.5	145.6
85°	15.9	18.5	52.9	211.8	468.5	794.1	1305.0	1217.7	397.1	71.5
87.5°	0.0	0.0	13.2	60.9	127.1	235.6	553.2	553.2	121.8	37.1
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°
5648.8	0°	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8	5648.8
5733.5	2.5°	5651.5	5556.2	5347.1	5153.8	5016.2	4860.0	4653.5	4560.9	4526.5	4478.8
5646.2	5°	5503.2	5386.8	5029.4	4669.4	4275.0	3975.9	3658.2	3473.0	3332.7	3245.3
5529.7	7.5°	5294.1	5055.9	4574.1	3997.1	3486.2	3041.5	2559.7	2234.1	2025.0	1940.3
5402.7	10°	5127.4	4817.7	4084.4	3367.1	2686.8	2035.6	1492.9	1207.1	990.0	907.9
5235.9	12.5°	4910.3	4539.7	3626.5	2723.8	1868.8	1212.4	825.9	717.4	656.5	645.9
5145.9	15°	4730.3	4288.2	3192.4	2109.7	1209.7	757.1	643.2	616.8	600.9	595.6
5010.9	17.5°	4608.5	4018.2	2747.7	1535.3	796.8	619.4	592.9	577.1	569.1	566.5
4878.5	20°	4367.7	3790.6	2308.2	1074.7	622.1	571.8	550.6	537.4	529.4	526.8
4759.4	22.5°	4230.0	3502.1	1868.8	749.1	553.2	518.8	502.9	492.4	479.1	471.2
4695.9	25°	4092.4	3290.3	1477.1	582.4	502.9	479.1	455.3	442.1	420.9	410.3
4598.0	27.5°	3930.9	3081.2	1138.2	505.6	452.6	428.8	405.0	383.8	357.4	346.8
4542.4	30°	3838.2	2877.4	857.6	452.6	415.6	383.8	354.7	328.2	299.1	280.6
4598.0	32.5°	3790.6	2692.1	643.2	412.9	375.9	341.5	304.4	272.6	246.2	230.3
4603.2	35°	3732.4	2512.1	505.6	375.9	338.8	301.8	264.7	232.9	206.5	193.2
4804.4	37.5°	3793.2	2406.2	420.9	346.8	309.7	267.4	227.6	195.9	174.7	161.5
5053.2	40°	3960.0	2318.8	365.3	320.3	280.6	235.6	198.5	166.8	148.2	137.6
5447.7	42.5°	4216.8	2318.8	330.9	293.8	254.1	206.5	169.4	145.6	127.1	116.5
6120.0	45°	4682.7	2390.3	301.8	267.4	222.4	177.4	145.6	121.8	103.2	92.6
7049.1	47.5°	5336.5	2554.4	277.9	243.5	198.5	156.2	127.1	103.2	84.7	74.1
8142.4	50°	6215.3	2927.7	254.1	214.4	177.4	135.0	105.9	82.1	66.2	55.6
9312.4	52.5°	7311.2	3457.1	230.3	198.5	150.9	113.8	84.7	66.2	50.3	42.4
10466.5	55°	8470.6	4105.6	201.2	177.4	129.7	95.3	68.8	50.3	37.1	31.8
11861.5	57.5°	9638.0	4605.9	177.4	153.5	105.9	76.8	55.6	39.7	26.5	21.2
12758.9	60°	10257.4	4653.5	153.5	127.1	84.7	60.9	42.4	29.1	18.5	13.2
13026.2	62.5°	10352.7	4230.0	132.4	103.2	68.8	47.6	29.1	21.2	10.6	5.3
12944.2	65°	9863.0	3525.9	113.8	82.1	52.9	34.4	21.2	13.2	5.3	2.6
12184.4	67°	9068.8	2954.1	97.9	68.8	42.4	26.5	15.9	7.9	2.6	0.0
11850.9	67.5°	8761.8	2795.3	92.6	63.5	39.7	23.8	13.2	7.9	2.6	0.0
9463.3	70°	6800.3	1995.9	68.8	45.0	29.1	18.5	10.6	5.3	0.0	0.0
6014.1	72.5°	4166.5	1167.4	52.9	31.8	21.2	13.2	7.9	2.6	0.0	0.0
2562.4	75°	1747.1	402.4	45.0	23.8	15.9	7.9	5.3	2.6	0.0	0.0
706.8	77.5°	455.3	150.9	31.8	15.9	10.6	7.9	5.3	2.6	0.0	0.0
243.5	80°	185.3	68.8	21.2	10.6	10.6	7.9	5.3	2.6	0.0	0.0
150.9	82.5°	121.8	31.8	13.2	10.6	7.9	5.3	2.6	0.0	0.0	0.0
119.1	85°	92.6	18.5	7.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0
45.0	87.5°	39.7	10.6	7.9	5.3	5.3	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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