

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: P575422

Luminaire Tested: **EPH-VN-04-750-U-SL3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575422
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-SL3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens and House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

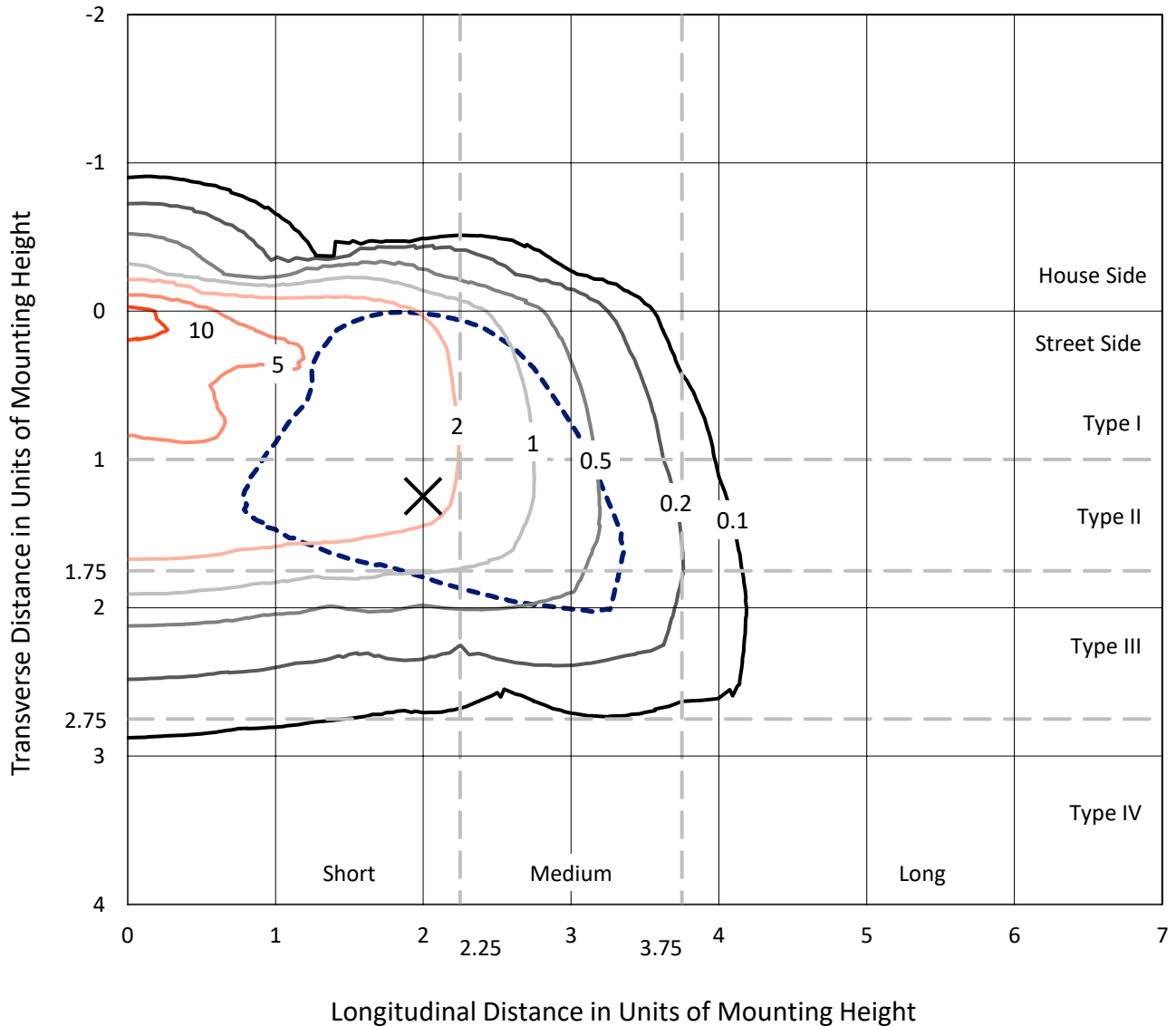
Lumens per Lamp: N/A
Luminaire Lumens: 25853 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

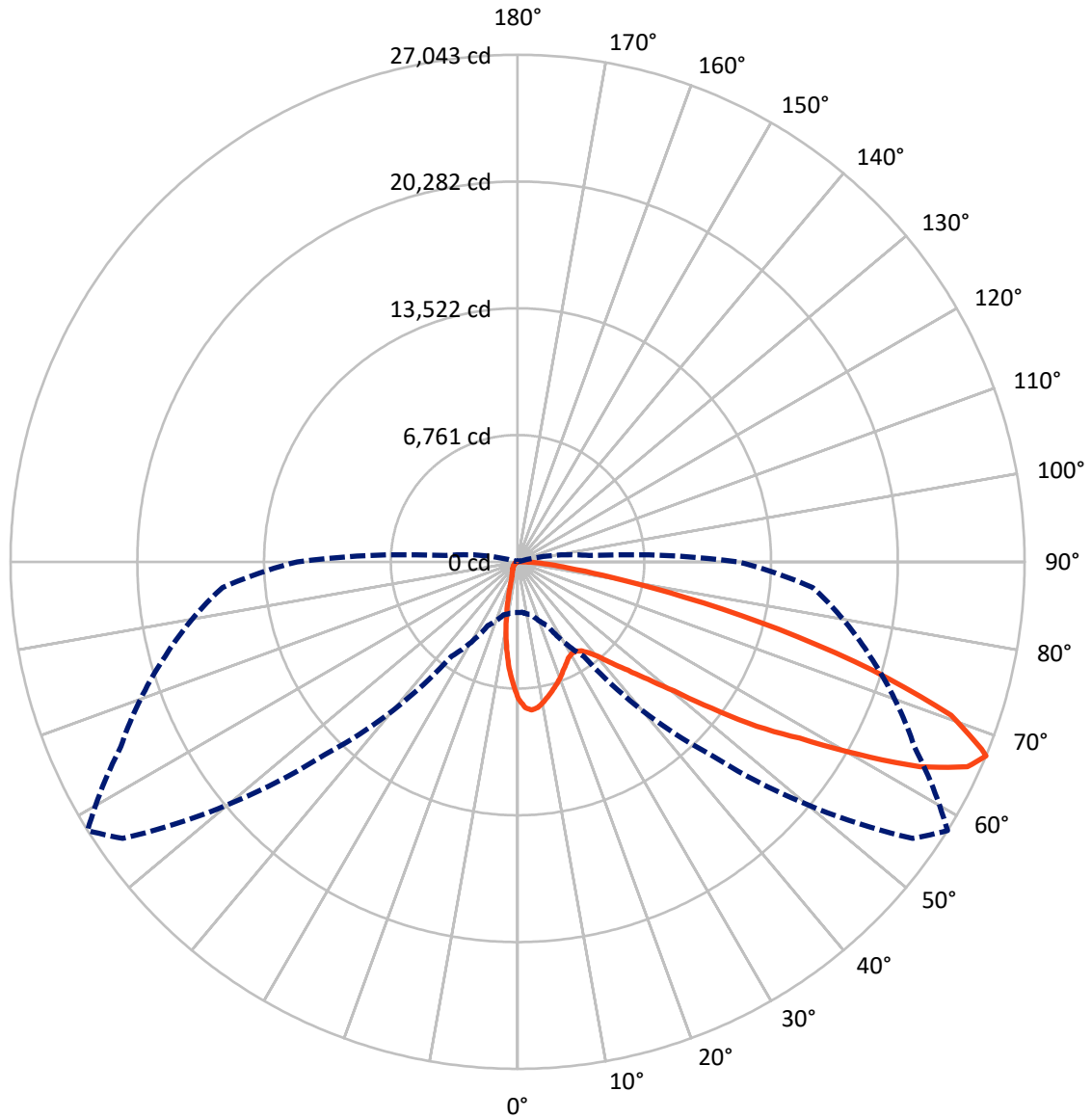
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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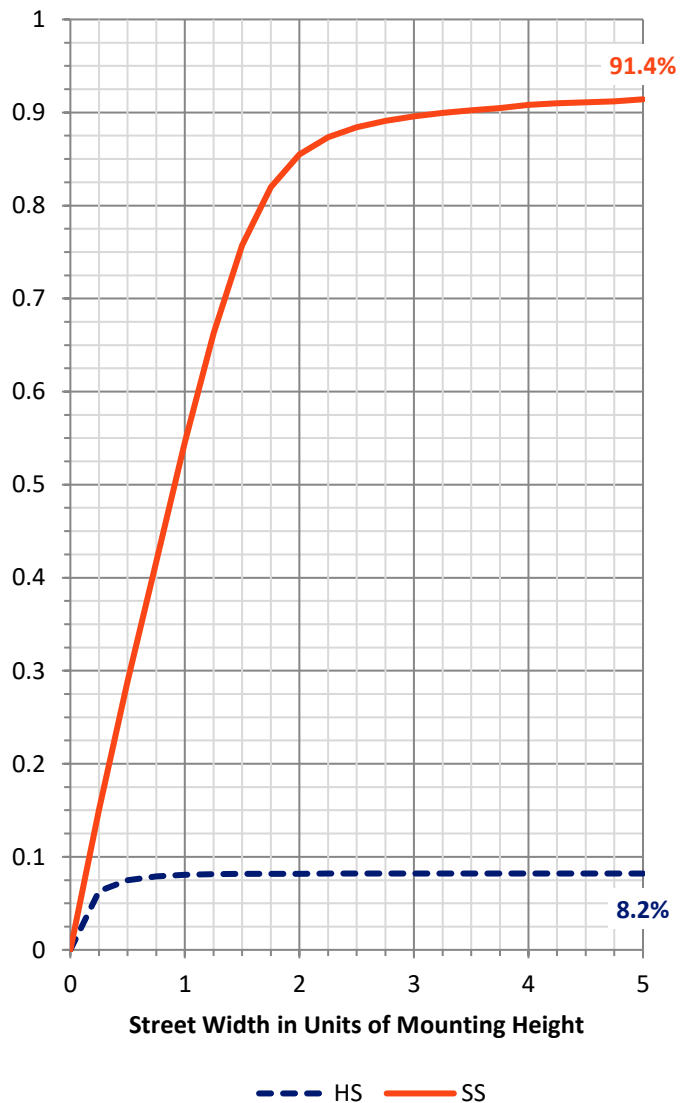
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2136.9	0.0	2136.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	23716.1	0.0	23716.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	25853.0	0.0	25853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.2	2.2
10°-20°	1205.5	4.7
20°-30°	1599.4	6.2
30°-40°	2216.2	8.6
40°-50°	3616.2	14.0
50°-60°	6356.1	24.6
60°-70°	7039.9	27.2
70°-80°	2917.3	11.3
80°-90°	321.1	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°	25853.0	100.0
0°-180°	25853.0	100.0

Coefficient of Utilization

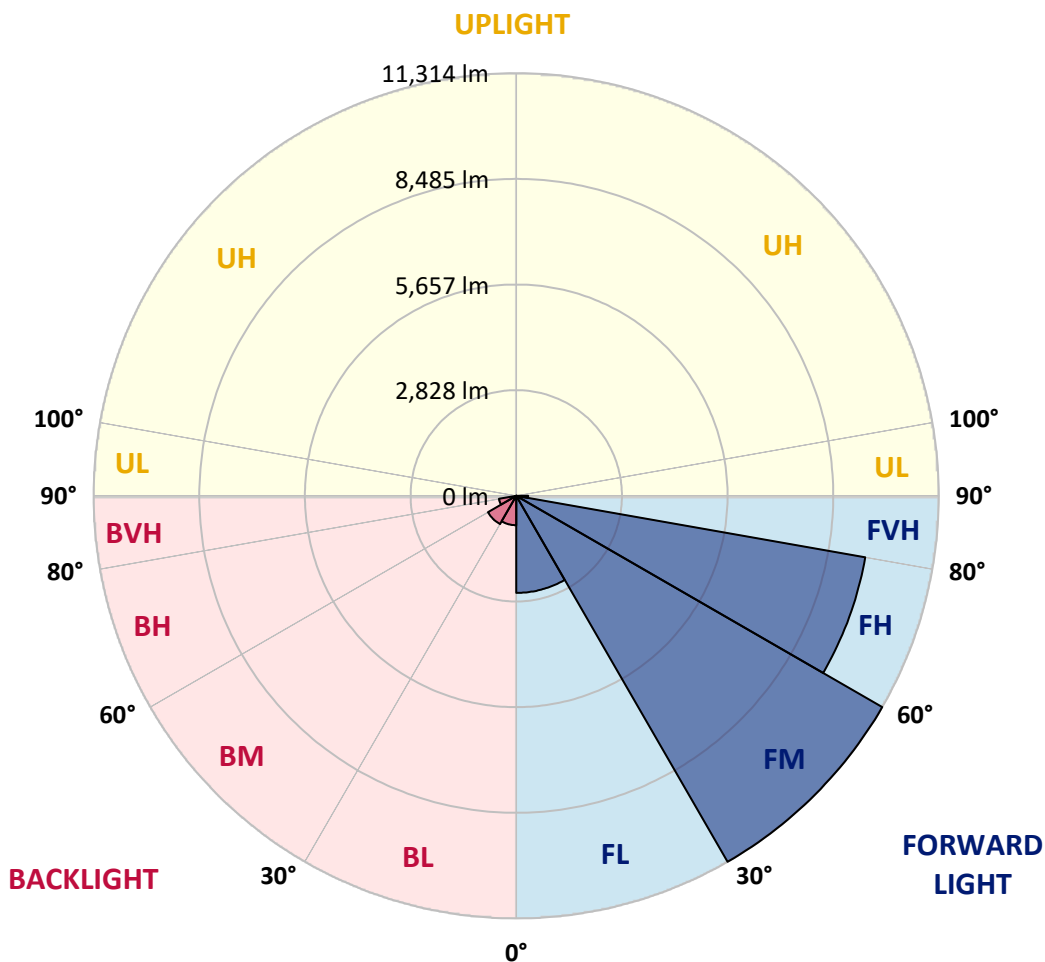


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2598.9	10.1			
FM (30°-60°)	11313.8	43.8			
FH (60°-80°)	9487.5	36.7			G4/12000
FVH (80°-90°)	315.9	1.2			G3/500
BL (0°-30°)	787.0	3.0	B2/1000		
BM (30°-60°)	874.8	3.4	B1/1000		
BH (60°-80°)	469.8	1.8	B1/500		G1/500
BVH (80°-90°)	5.3	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°
0°	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5
2.5°	7969.8	7997.2	8021.3	7976.6	8014.4	7959.5	7818.7	7787.9	7763.8	7554.5
5°	7966.3	7935.4	7959.5	7980.1	7928.6	7969.8	7935.4	7938.9	7846.2	7657.4
7.5°	7434.3	7420.6	7434.3	7533.9	7647.1	7736.4	7787.9	7839.3	7777.6	7496.1
10°	6717.0	6785.6	6823.4	7001.9	7176.9	7341.7	7503.0	7599.1	7581.9	7468.7
12.5°	6215.9	6195.3	6332.6	6449.3	6624.3	6957.2	7238.7	7327.9	7430.9	7273.0
15°	5752.5	5697.6	5780.0	5982.5	6281.1	6545.4	6940.1	7073.9	7204.4	7245.6
17.5°	5309.7	5337.2	5423.0	5604.9	5886.4	6257.1	6627.7	6820.0	7132.3	7077.4
20°	5096.9	5155.3	5186.2	5278.9	5474.5	5845.2	6397.8	6552.2	6885.2	7073.9
22.5°	5107.2	5107.2	5035.2	5090.1	5268.6	5556.9	6085.4	6257.1	6785.6	6895.5
25°	5217.1	5148.4	5151.9	5086.6	5162.2	5320.0	5804.0	6013.4	6583.1	6912.6
27.5°	5299.4	5285.7	5265.1	5248.0	5151.9	5175.9	5618.7	5790.3	6504.2	6892.0
30°	5598.1	5536.3	5515.7	5477.9	5350.9	5234.2	5471.1	5687.3	6442.4	6940.1
32.5°	5848.6	5858.9	5876.1	5766.2	5656.4	5368.1	5512.3	5683.9	6397.8	7049.9
35°	6164.4	6209.0	6215.9	6181.5	6064.8	5780.0	5683.9	5831.5	6473.3	7245.6
37.5°	6644.9	6596.9	6727.3	6741.0	6658.6	6281.1	6082.0	6140.4	6696.4	7557.9
40°	6957.2	7015.6	7259.3	7410.3	7269.6	6926.4	6658.6	6648.3	7019.0	8048.7
42.5°	7303.9	7434.3	7702.0	8028.1	8011.0	7691.8	7420.6	7376.0	7592.2	8759.2
45°	7777.6	7894.3	8268.4	8759.2	9026.9	8755.8	8347.3	8258.1	8289.0	9727.1
47.5°	8563.6	8532.7	9071.5	9555.5	9994.8	9785.4	9610.4	9349.5	9325.5	10866.6
50°	9452.5	9445.7	9926.2	10475.3	10983.3	11391.8	11100.0	10815.1	10822.0	12414.6
52.5°	10296.9	10430.7	10949.0	11494.7	12366.5	12805.9	13087.3	12974.0	12428.3	13797.8
55°	10743.1	10859.8	11374.6	12315.0	13691.4	14820.6	15582.6	15486.5	14432.8	15356.0
57.5°	10320.9	10399.8	11096.6	12328.8	14618.1	17137.4	17868.5	17748.4	16505.9	16547.1
60°	8553.3	8676.8	9713.4	11158.4	14257.7	18922.2	21015.9	20834.0	18393.6	18053.8
62.5°	5924.1	6006.5	6857.7	8656.2	12548.4	19543.4	23988.2	24087.8	20384.3	19227.7
65°	3837.3	3830.4	4317.8	5536.3	8893.1	17662.5	25745.6	26363.4	22306.4	19406.1
67°	2711.5	2701.2	2931.2	3754.9	6157.5	14552.9	25714.7	27043.0	23349.8	19457.6
67.5°	2502.1	2491.8	2711.5	3452.9	5556.9	13533.5	25330.3	26692.9	23717.1	19385.6
70°	1942.7	1915.2	1997.6	2378.6	3236.6	8752.3	21678.3	24520.3	22955.1	17587.0
72.5°	1403.8	1434.7	1565.1	1953.0	2539.9	4709.1	16523.0	19828.3	19172.7	13255.5
75°	978.2	1005.7	1215.0	1592.6	2330.5	2855.7	11172.1	14381.3	13355.0	7317.6
77.5°	511.4	545.7	775.7	1273.4	2117.7	2210.4	6675.8	9119.6	7077.4	2605.1
80°	236.8	254.0	387.8	902.7	1771.1	1942.7	3892.2	5072.9	2831.6	583.5
82.5°	103.0	113.3	178.5	518.3	1256.2	1699.0	2409.5	2660.0	1026.3	188.8
85°	20.6	24.0	68.6	274.6	607.5	1029.7	1692.1	1578.9	514.8	92.7
87.5°	0.0	0.0	17.2	78.9	164.7	305.5	717.3	717.3	157.9	48.1
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°
7324.5	0°	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5	7324.5
7434.3	2.5°	7327.9	7204.4	6933.2	6682.7	6504.2	6301.7	6034.0	5913.8	5869.2	5807.4
7321.1	5°	7135.7	6984.7	6521.3	6054.6	5543.1	5155.3	4743.4	4503.2	4321.2	4208.0
7170.0	7.5°	6864.6	6555.7	5931.0	5182.8	4520.3	3943.7	3319.0	2896.8	2625.7	2515.9
7005.3	10°	6648.3	6246.8	5296.0	4365.9	3483.8	2639.4	1935.8	1565.1	1283.7	1177.3
6789.1	12.5°	6366.9	5886.4	4702.2	3531.8	2423.2	1572.0	1070.9	930.1	851.2	837.5
6672.4	15°	6133.5	5560.3	4139.3	2735.5	1568.6	981.6	834.0	799.7	779.1	772.3
6497.3	17.5°	5975.6	5210.2	3562.7	1990.7	1033.1	803.2	768.8	748.2	737.9	734.5
6325.7	20°	5663.3	4915.0	2993.0	1393.5	806.6	741.4	713.9	696.8	686.5	683.0
6171.3	22.5°	5484.8	4540.9	2423.2	971.3	717.3	672.7	652.1	638.4	621.2	610.9
6088.9	25°	5306.3	4266.3	1915.2	755.1	652.1	621.2	590.4	573.2	545.7	532.0
5961.9	27.5°	5096.9	3995.2	1475.9	655.6	586.9	556.0	525.1	497.7	463.4	449.6
5889.8	30°	4976.8	3730.9	1112.1	586.9	538.9	497.7	459.9	425.6	387.8	363.8
5961.9	32.5°	4915.0	3490.6	834.0	535.4	487.4	442.8	394.7	353.5	319.2	298.6
5968.7	35°	4839.5	3257.2	655.6	487.4	439.3	391.3	343.2	302.0	267.7	250.6
6229.6	37.5°	4918.5	3119.9	545.7	449.6	401.6	346.7	295.2	254.0	226.5	209.4
6552.2	40°	5134.7	3006.7	473.7	415.3	363.8	305.5	257.4	216.2	192.2	178.5
7063.6	42.5°	5467.6	3006.7	429.0	381.0	329.5	267.7	219.7	188.8	164.7	151.0
7935.4	45°	6071.7	3099.4	391.3	346.7	288.3	230.0	188.8	157.9	133.9	120.1
9140.2	47.5°	6919.5	3312.2	360.4	315.8	257.4	202.5	164.7	133.9	109.8	96.1
10557.7	50°	8059.0	3796.1	329.5	278.0	230.0	175.0	137.3	106.4	85.8	72.1
12074.8	52.5°	9480.0	4482.6	298.6	257.4	195.6	147.6	109.8	85.8	65.2	54.9
13571.3	55°	10983.3	5323.5	260.9	230.0	168.2	123.6	89.2	65.2	48.1	41.2
15380.1	57.5°	12497.0	5972.2	230.0	199.1	137.3	99.5	72.1	51.5	34.3	27.5
16543.6	60°	13300.1	6034.0	199.1	164.7	109.8	78.9	54.9	37.8	24.0	17.2
16890.3	62.5°	13423.7	5484.8	171.6	133.9	89.2	61.8	37.8	27.5	13.7	6.9
16783.9	65°	12788.7	4571.8	147.6	106.4	68.6	44.6	27.5	17.2	6.9	3.4
15798.8	67°	11759.0	3830.4	127.0	89.2	54.9	34.3	20.6	10.3	3.4	0.0
15366.3	67.5°	11360.9	3624.5	120.1	82.4	51.5	30.9	17.2	10.3	3.4	0.0
12270.4	70°	8817.5	2587.9	89.2	58.3	37.8	24.0	13.7	6.9	0.0	0.0
7798.2	72.5°	5402.4	1513.6	68.6	41.2	27.5	17.2	10.3	3.4	0.0	0.0
3322.5	75°	2265.3	521.7	58.3	30.9	20.6	10.3	6.9	3.4	0.0	0.0
916.4	77.5°	590.4	195.6	41.2	20.6	13.7	10.3	6.9	3.4	0.0	0.0
315.8	80°	240.3	89.2	27.5	13.7	13.7	10.3	6.9	3.4	0.0	0.0
195.6	82.5°	157.9	41.2	17.2	13.7	10.3	6.9	3.4	0.0	0.0	0.0
154.5	85°	120.1	24.0	10.3	10.3	6.9	3.4	0.0	0.0	0.0	0.0
58.3	87.5°	51.5	13.7	10.3	6.9	6.9	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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