

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: P575448

Luminaire Tested: **EPH-VN-08-730-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575448
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

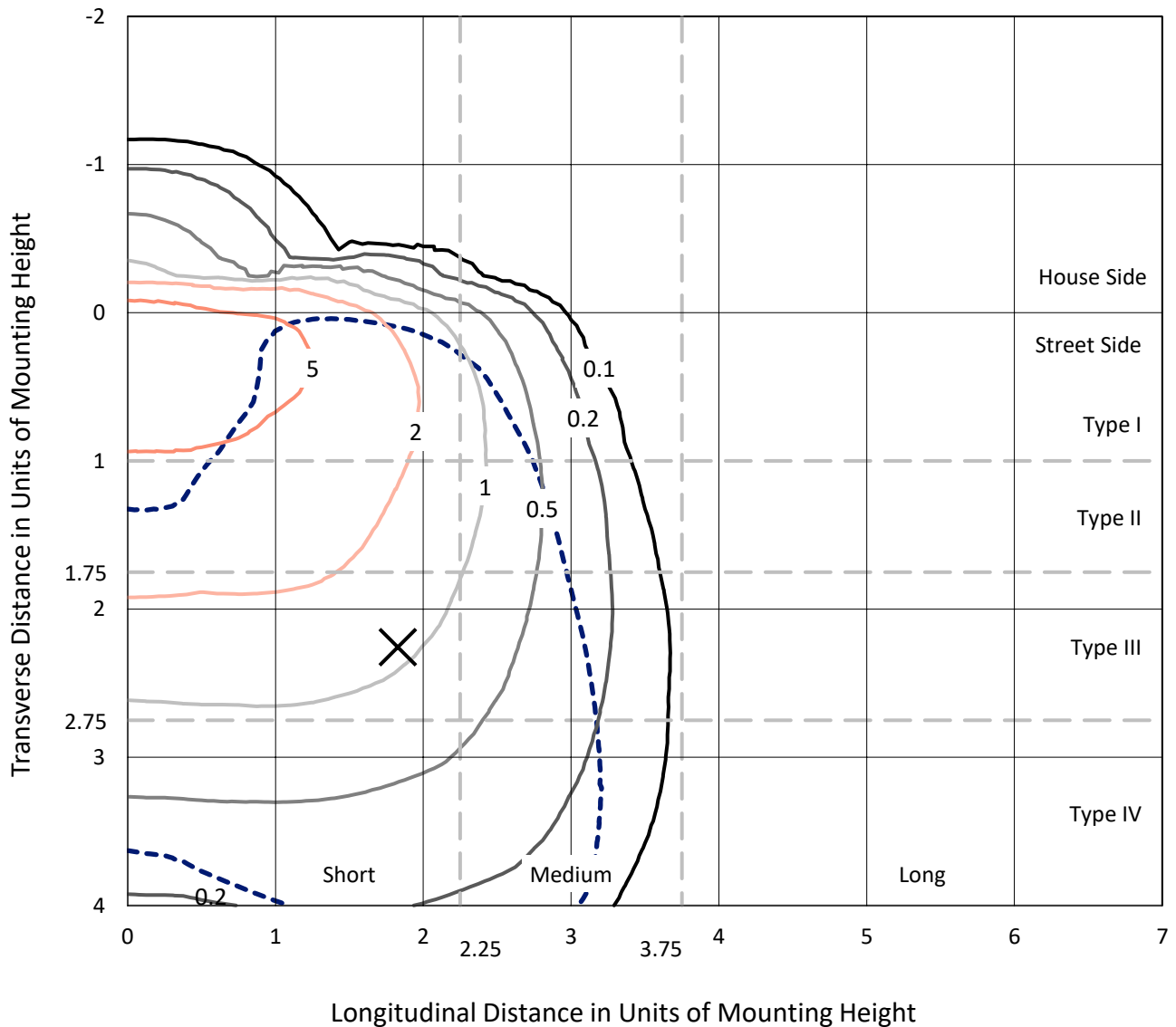
Lumens per Lamp: N/A
Luminaire Lumens: 41936.9 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

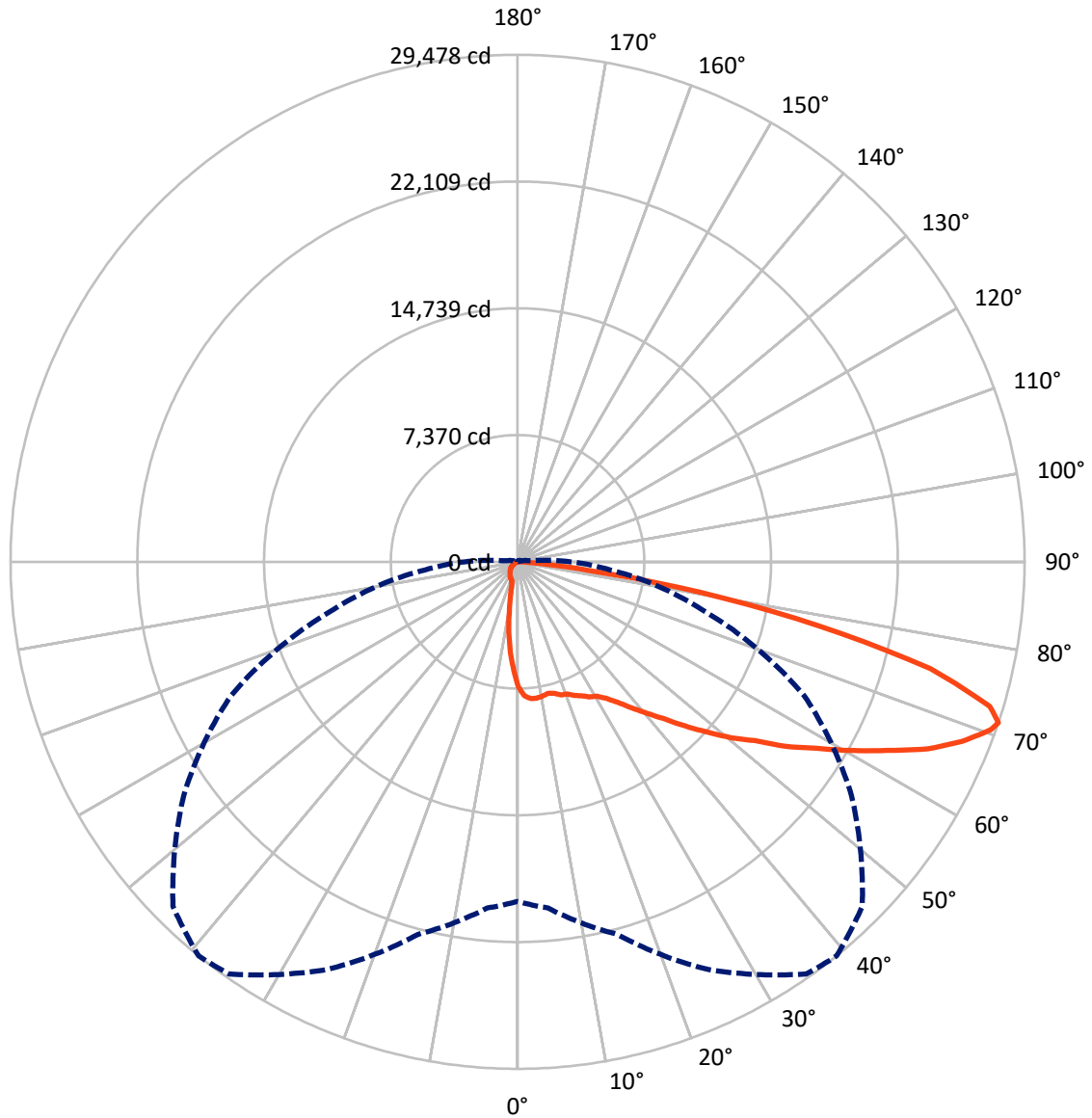
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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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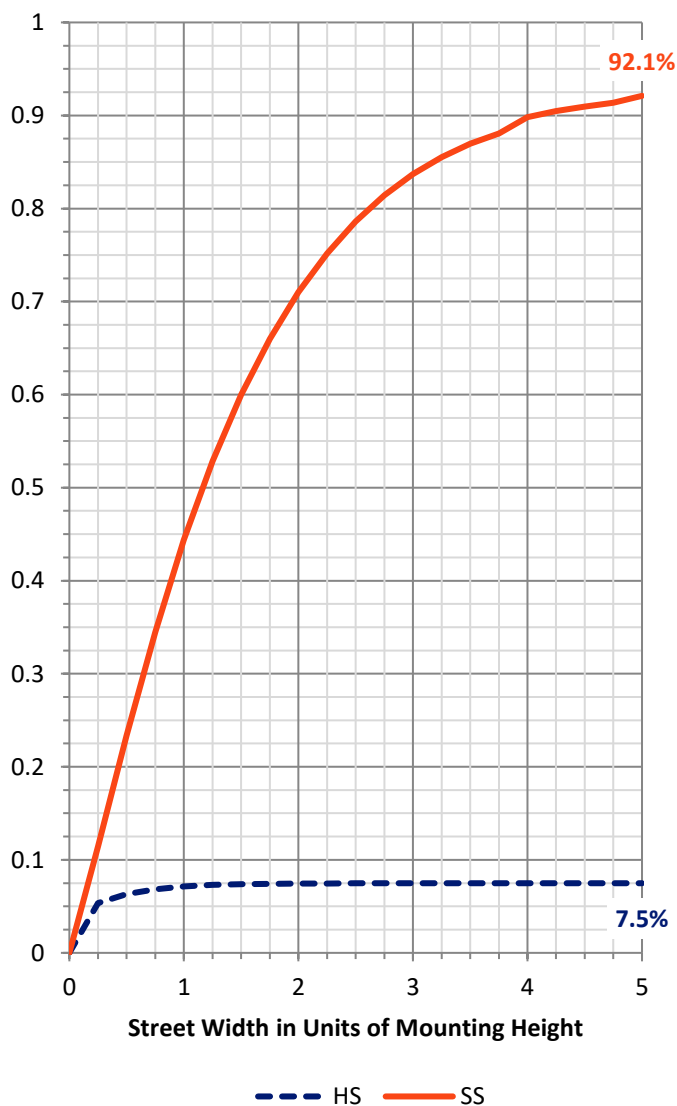
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3157.2	0.0	3157.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	38779.7	0.0	38779.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	41936.9	0.0	41936.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.3	1.5
10°-20°	1502.1	3.6
20°-30°	2411.4	5.8
30°-40°	3691.2	8.8
40°-50°	5925.1	14.1
50°-60°	8703.0	20.8
60°-70°	10961.1	26.1
70°-80°	7315.2	17.4
80°-90°	817.5	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°	41936.9	100.0
0°-180°	41936.9	100.0

Coefficient of Utilization

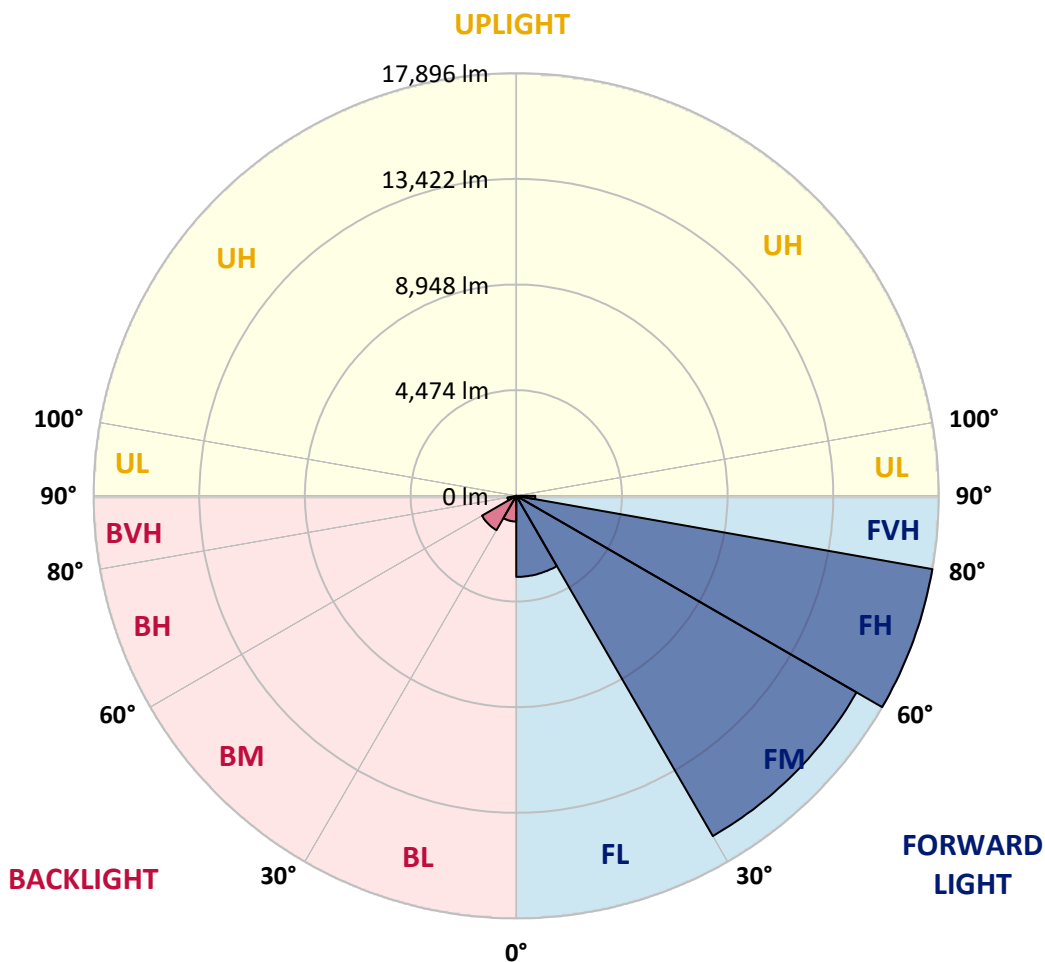


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3433.7	8.2			
FM (30°-60°)	16641.2	39.7			
FH (60°-80°)	17896.3	42.7			G5
FVH (80°-90°)	808.5	1.9			G5
BL (0°-30°)	1090.0	2.6	B3/2500		
BM (30°-60°)	1678.2	4.0	B2/2500		
BH (60°-80°)	380.0	0.9	B1/500		G1/500
BVH (80°-90°)	9.0	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°	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4
2.5°	7865.9	7943.0	7865.9	7832.9	7799.9	7805.4	7717.4	7733.9	7629.4	7491.9
5°	8113.5	8218.0	8135.5	8097.0	8091.5	7987.0	7943.0	7838.4	7711.9	7497.4
7.5°	8091.5	8069.5	8108.0	8075.0	8003.5	8003.5	7954.0	7805.4	7678.9	7436.9
10°	7926.5	7992.5	7959.5	7921.0	7937.5	7943.0	7849.4	7744.9	7706.4	7464.4
12.5°	7910.0	7799.9	7921.0	7926.5	7854.9	7849.4	7838.4	7810.9	7689.9	7469.9
15°	7854.9	7810.9	7932.0	7937.5	7954.0	7937.5	7954.0	7932.0	7810.9	7684.4
17.5°	7899.0	7849.4	8020.0	8102.5	8064.0	8141.0	8113.5	8014.5	7910.0	7761.4
20°	7910.0	7981.5	8168.5	8201.5	8322.5	8196.0	8190.5	8086.0	8020.0	7860.4
22.5°	8113.5	8146.5	8377.5	8449.0	8454.5	8438.0	8300.5	8179.5	8152.0	7954.0
25°	8421.5	8537.0	8641.5	8685.5	8702.0	8625.0	8482.0	8328.0	8262.0	8135.5
27.5°	8966.1	8894.6	8988.1	9054.1	8867.1	8894.6	8713.1	8581.0	8487.5	8377.5
30°	9450.1	9384.1	9389.6	9378.6	9219.1	9070.6	9021.1	8790.1	8674.5	8718.6
32.5°	9884.7	9741.7	9862.7	9807.7	9510.6	9466.6	9428.1	9136.6	9158.6	9362.1
35°	10286.2	10236.7	10335.7	10236.7	10038.7	10027.7	9989.2	9736.2	9857.2	10148.7
37.5°	10654.8	10671.3	10792.3	10742.8	10759.3	10770.3	10748.3	10478.8	10825.3	11479.9
40°	10995.8	10973.8	11270.9	11424.9	11457.9	11578.9	11578.9	11512.9	12046.5	12783.5
42.5°	11358.9	11413.9	11798.9	12057.5	12371.0	12475.5	12618.5	12651.5	13476.6	14318.2
45°	11952.9	11859.4	12349.0	12959.6	13234.6	13603.1	13823.2	14010.2	15005.8	16160.9
47.5°	12706.5	12519.5	12948.6	13834.2	14472.2	14774.8	15170.8	15418.4	16392.0	17585.6
50°	13542.6	13350.1	13559.1	14780.3	15522.9	16072.9	16579.0	16892.5	18069.7	19180.8
52.5°	14488.7	14312.7	14345.7	15764.9	16859.5	17261.1	17926.7	18394.2	19565.9	20143.4
55°	15495.4	15451.4	15346.8	16727.5	18031.2	18933.3	19334.8	19895.9	21100.5	20666.0
57.5°	16507.5	16370.0	16518.5	18003.7	19912.4	20451.5	21007.0	21342.6	21953.1	21122.5
60°	17459.1	17470.1	17679.1	19389.8	21513.1	22277.7	22778.2	22574.7	22827.8	21320.6
62.5°	18262.2	18240.2	18768.3	20946.5	23630.8	24147.9	24522.0	23614.3	23234.8	21513.1
65°	18982.8	19230.3	20060.9	22800.2	25622.1	26216.2	25990.6	24599.0	23630.8	20946.5
67.5°	19527.4	19895.9	21337.1	24544.0	27448.3	27866.4	27552.8	25347.1	23163.3	18724.3
70°	19846.4	20220.4	22250.2	25996.1	28906.0	29208.5	28471.4	24769.5	20435.0	13559.1
71°	19747.4	20203.9	22426.2	26150.2	29252.5	29478.1	28333.9	23702.4	18377.7	11353.4
72.5°	18850.8	19279.8	21694.6	26040.1	28834.5	28697.0	27261.3	21139.0	14466.7	7238.9
75°	13850.7	14312.7	18619.7	22525.2	25737.6	24791.5	22063.2	14835.3	7546.9	2216.8
77.5°	6897.8	6974.8	11556.9	16353.5	18878.3	17937.7	14785.8	8273.0	2821.8	654.6
80°	3179.4	3201.4	4334.5	8471.0	11413.9	10742.8	8284.0	4081.5	1276.2	346.5
82.5°	2167.3	2200.3	2612.8	3509.4	4956.1	4180.5	3355.4	2612.8	731.6	209.0
85°	396.0	363.0	1463.2	1859.2	1914.2	1298.2	1160.6	2260.8	275.0	121.0
87.5°	0.0	5.5	203.5	759.1	682.1	302.5	396.0	550.1	27.5	38.5
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°
7299.4	0°	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4	7299.4
7381.9	2.5°	7288.4	7227.9	7024.3	6798.8	6595.3	6435.8	6232.3	6138.7	5990.2	5907.7
7365.4	5°	7183.9	7018.8	6666.8	6287.3	5863.7	5511.7	5121.1	4901.1	4648.1	4571.1
7211.4	7.5°	7007.8	6771.3	6254.3	5720.7	5071.6	4450.0	3971.5	3459.9	3146.4	3014.4
7095.9	10°	6897.8	6611.8	5907.7	5110.1	4202.5	3327.9	2656.8	2112.3	1826.2	1688.7
7123.4	12.5°	6897.8	6589.8	5627.2	4527.0	3322.4	2277.3	1644.7	1331.2	1237.6	1204.6
7244.4	15°	6881.3	6545.8	5357.6	3927.5	2458.8	1529.2	1226.6	1160.6	1149.6	1144.1
7359.9	17.5°	6963.8	6468.8	5082.6	3283.9	1738.2	1204.6	1127.6	1116.6	1105.6	1105.6
7431.4	20°	7024.3	6424.8	4752.6	2601.8	1298.2	1116.6	1083.6	1067.1	1061.6	1056.1
7447.9	22.5°	6974.8	6358.8	4345.5	1947.2	1133.1	1061.6	1039.6	1023.1	1012.1	1012.1
7618.4	25°	7068.4	6298.3	3938.5	1468.7	1061.6	1012.1	990.1	979.1	973.6	968.1
7816.4	27.5°	7194.9	6325.8	3454.4	1182.6	1001.1	962.6	940.6	929.6	924.1	913.1
8124.5	30°	7348.9	6320.3	2920.9	1034.1	946.1	907.6	885.6	880.1	869.1	863.6
8586.5	32.5°	7612.9	6463.3	2370.8	957.1	885.6	852.6	830.6	825.1	819.6	814.1
9378.6	35°	8179.5	6639.3	1853.7	896.6	830.6	792.1	775.6	764.6	759.1	753.6
10302.7	37.5°	8878.1	7029.8	1413.7	841.6	775.6	737.1	720.6	715.1	693.1	687.6
11584.4	40°	9752.7	7447.9	1089.1	781.1	726.1	687.6	671.1	654.6	627.1	616.1
12893.6	42.5°	10841.8	7854.9	896.6	726.1	671.1	643.6	616.1	588.6	566.6	544.6
14202.7	45°	11930.9	8328.0	786.6	676.6	627.1	594.1	572.1	533.6	495.1	462.1
15440.4	47.5°	12838.5	8498.5	720.6	621.6	583.1	555.6	522.6	473.1	418.1	385.0
16342.5	50°	13515.1	8399.5	654.6	566.6	533.6	506.1	462.1	401.5	346.5	313.5
16661.5	52.5°	13647.1	7965.0	594.1	522.6	484.1	451.1	401.5	335.5	275.0	242.0
17008.1	55°	13553.6	7244.4	544.6	484.1	440.1	390.5	335.5	269.5	214.5	181.5
16876.0	57.5°	13361.1	6391.8	489.6	434.6	385.0	335.5	275.0	220.0	159.5	126.5
16573.5	60°	12706.5	5231.1	434.6	379.5	330.0	286.0	225.5	159.5	110.0	82.5
16045.4	62.5°	11793.4	4021.0	379.5	324.5	286.0	236.5	176.0	115.5	66.0	44.0
14560.3	65°	10126.7	2816.3	319.0	269.5	236.5	192.5	132.0	71.5	38.5	16.5
11859.4	67.5°	7695.4	1743.7	264.0	225.5	203.5	154.0	93.5	44.0	16.5	5.5
7398.4	70°	4417.0	907.6	209.0	181.5	159.5	115.5	66.0	22.0	11.0	0.0
5396.2	71°	3085.9	671.1	187.0	159.5	143.0	104.5	55.0	16.5	5.5	0.0
2788.8	72.5°	1545.7	445.6	159.5	132.0	115.5	82.5	44.0	16.5	5.5	0.0
814.1	75°	550.1	286.0	110.0	88.0	82.5	60.5	27.5	11.0	5.5	0.0
407.0	77.5°	379.5	231.0	77.0	55.0	55.0	38.5	16.5	5.5	5.5	0.0
319.0	80°	346.5	126.5	49.5	33.0	27.5	22.0	11.0	5.5	0.0	0.0
313.5	82.5°	346.5	93.5	27.5	22.0	16.5	11.0	5.5	0.0	0.0	0.0
275.0	85°	242.0	49.5	16.5	16.5	11.0	5.5	0.0	0.0	0.0	0.0
49.5	87.5°	38.5	16.5	11.0	5.5	5.5	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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