

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: P574700

Luminaire Tested: **EPH-VN-08-740-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574700
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-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

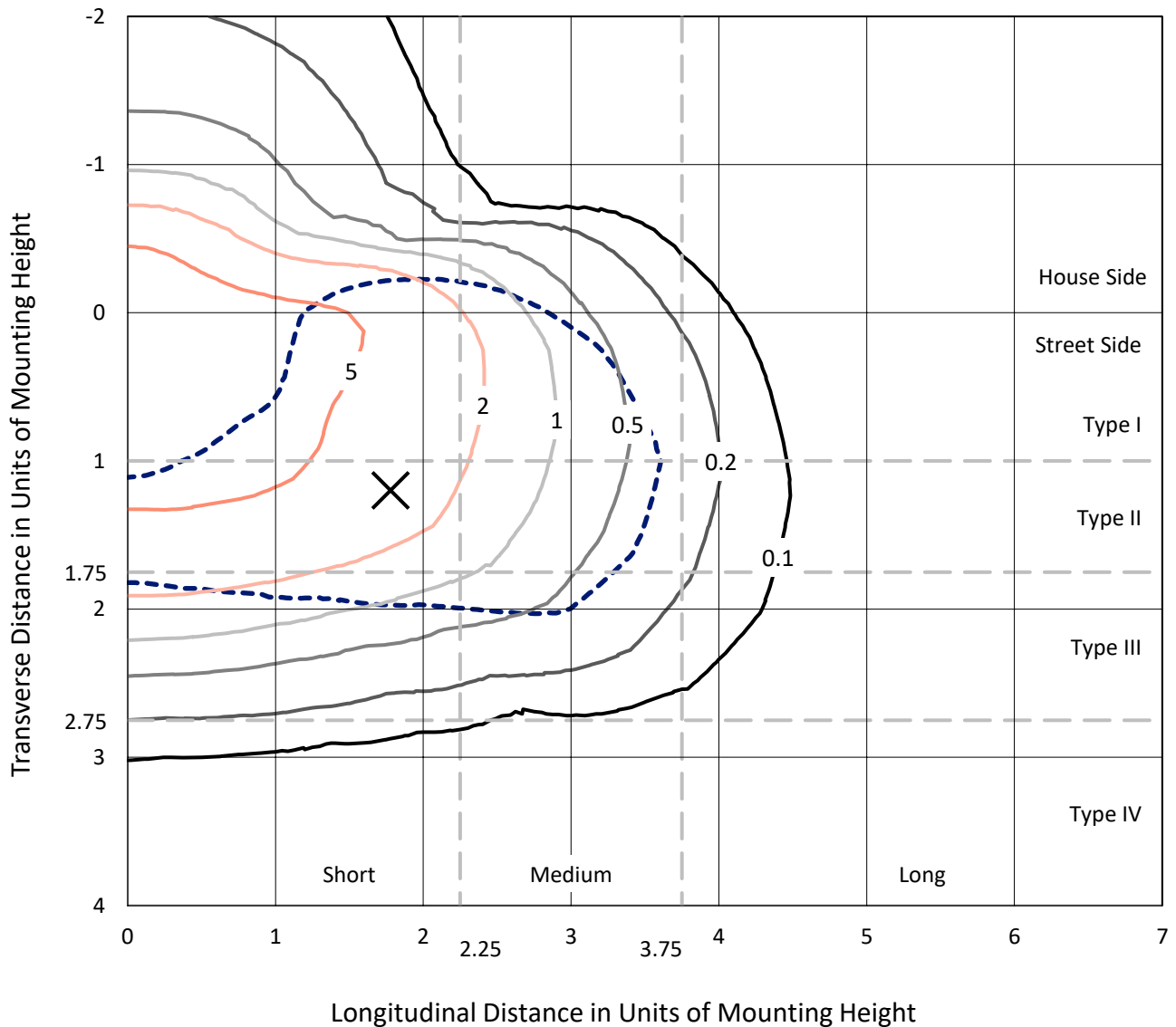
Lumens per Lamp: N/A
Luminaire Lumens: 56780.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

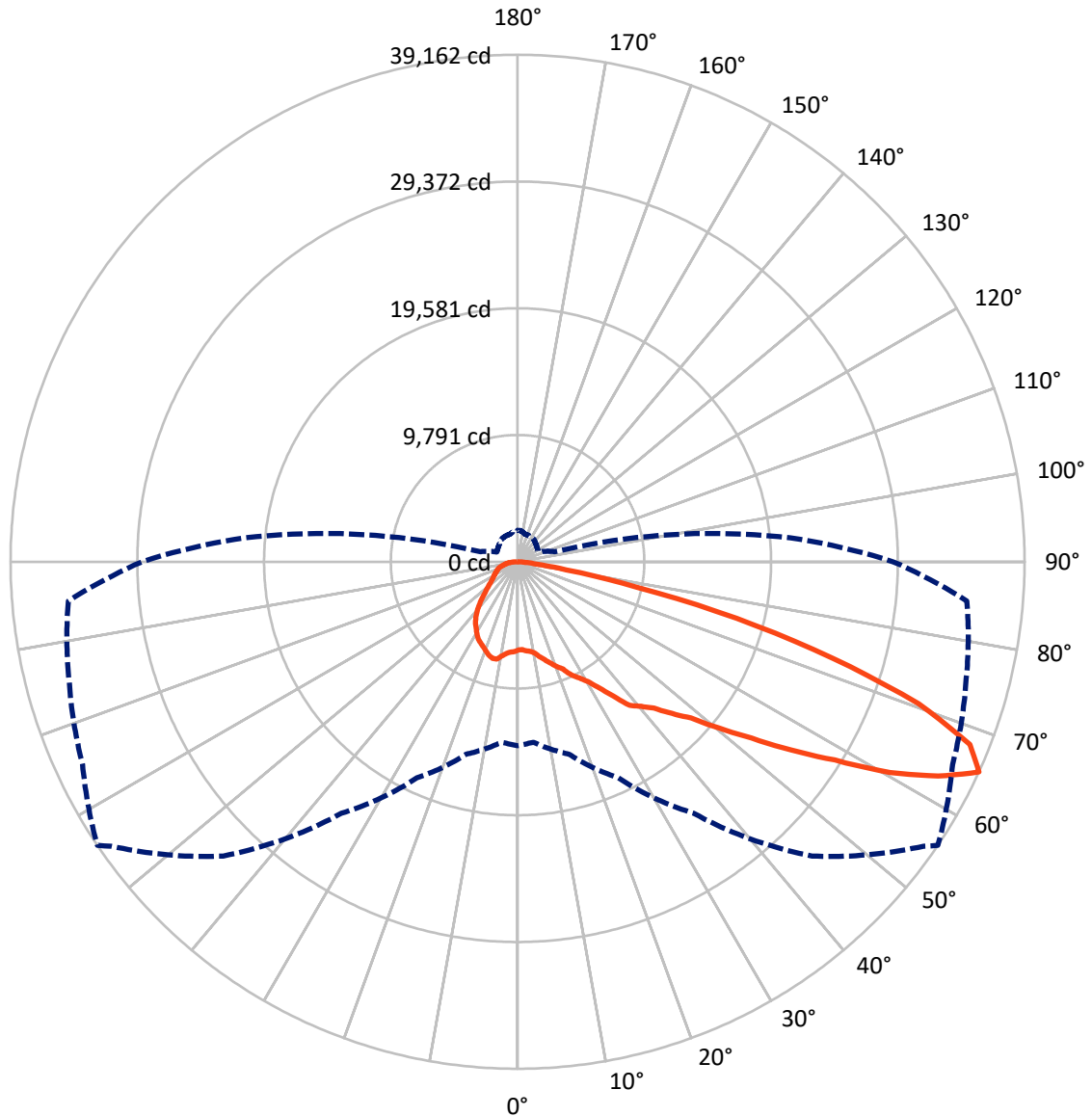
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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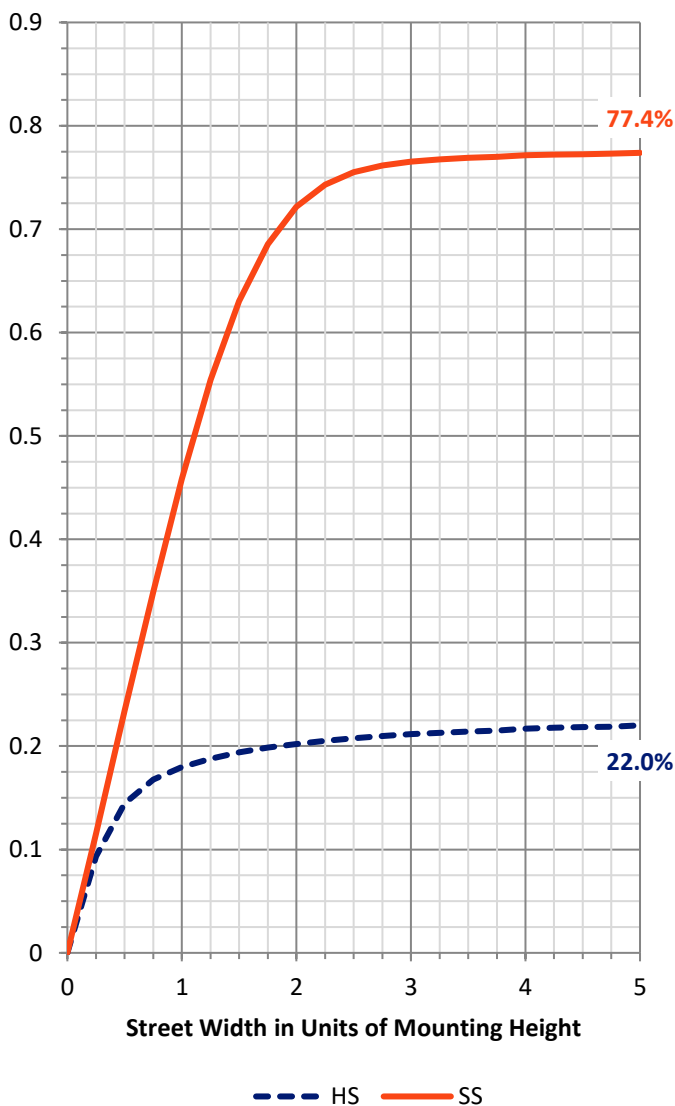
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12734.0	0.0	12734.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	44046.2	0.0	44046.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	56780.1	0.0	56780.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.4	1.2
10°-20°	2193.0	3.9
20°-30°	3904.8	6.9
30°-40°	5847.3	10.3
40°-50°	8663.5	15.3
50°-60°	13349.2	23.5
60°-70°	15113.0	26.6
70°-80°	6272.0	11.0
80°-90°	762.0	1.3
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°	56780.1	100.0
0°-180°	56780.1	100.0

Coefficient of Utilization

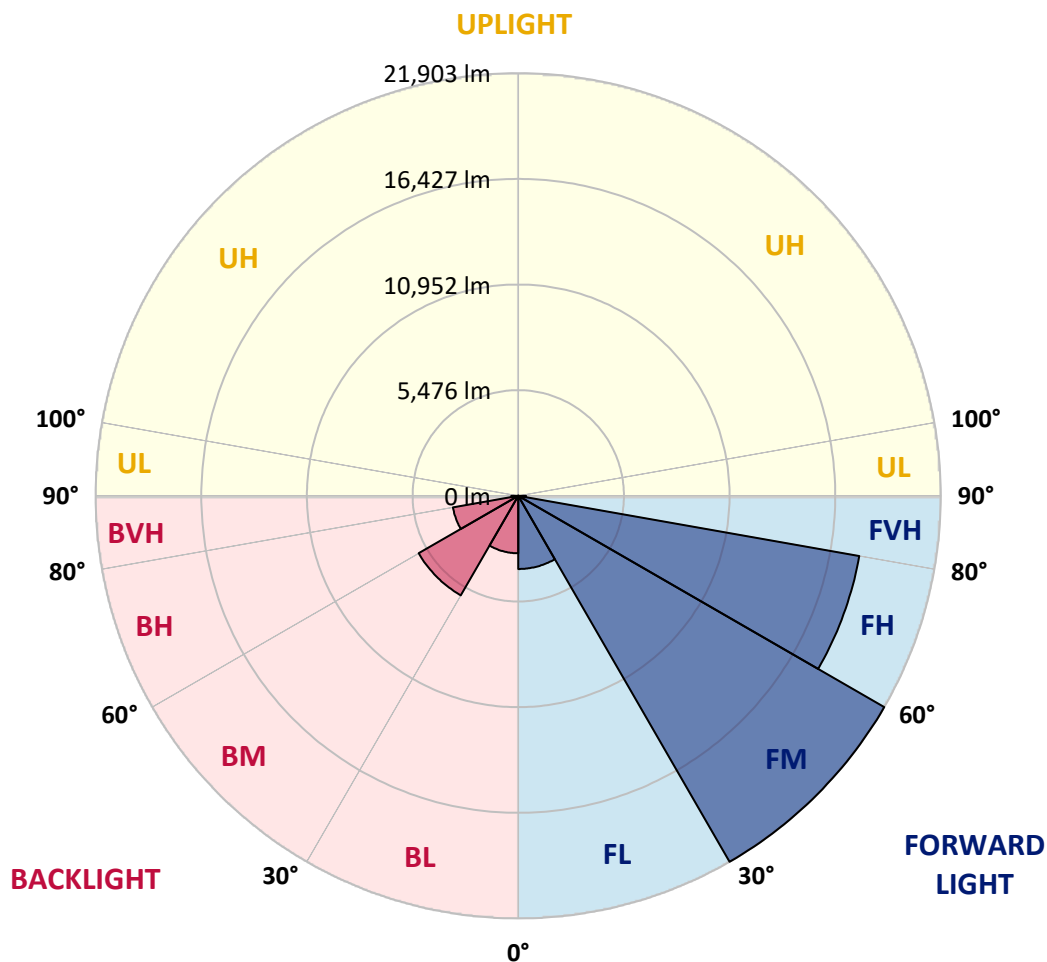


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3794.6	6.7			
FM (30°-60°)	21903.3	38.6			
FH (60°-80°)	17946.4	31.6			G5
FVH (80°-90°)	401.9	0.7			G3/500
BL (0°-30°)	2978.6	5.2	B4/5000		
BM (30°-60°)	5956.7	10.5	B4/8500		
BH (60°-80°)	3438.6	6.1	B4/5000		G4/5000
BVH (80°-90°)	360.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2
2.5°	6637.0	6672.6	6648.9	6720.2	6779.6	6779.6	6827.1	6791.5	6839.0	6904.4
5°	6856.8	6714.2	6791.5	6827.1	6809.3	6839.0	6791.5	6910.3	6833.1	6957.8
7.5°	6910.3	6963.8	7029.1	6969.7	7023.2	6993.5	6999.4	6981.6	6940.0	7041.0
10°	7302.5	7225.2	7373.8	7284.6	7272.8	7260.9	7237.1	7148.0	7249.0	7254.9
12.5°	7754.0	7682.7	7676.8	7605.5	7700.6	7528.2	7563.9	7516.4	7534.2	7558.0
15°	8080.8	8051.1	8187.8	8104.6	7979.8	7902.6	7985.8	7855.0	7920.4	7908.5
17.5°	8728.5	8722.5	8621.5	8484.9	8413.6	8300.7	8282.9	8229.4	8276.9	8253.1
20°	9180.1	9245.4	9263.3	9102.8	8829.5	8704.7	8675.0	8633.4	8686.9	8669.1
22.5°	9869.3	9768.3	9845.5	9566.3	9465.3	9168.2	9061.2	9001.8	9257.3	9192.0
25°	10309.0	10416.0	10338.7	10243.6	10017.9	9649.5	9572.2	9702.9	9804.0	9732.7
27.5°	11301.3	11194.3	11123.0	10837.8	10689.3	10303.1	10213.9	10166.4	10190.2	10231.8
30°	12055.9	12115.3	11954.9	11752.9	11378.5	10986.4	10778.4	10736.8	10653.6	10582.3
32.5°	13131.4	13042.2	12947.2	12816.4	12495.6	11978.7	11776.6	11622.1	11372.6	11039.8
35°	13648.3	13903.8	13832.5	13481.9	13238.3	13042.2	12982.8	12745.1	12537.2	12014.3
37.5°	14509.9	14616.8	14515.8	14402.9	14290.0	14082.0	14010.7	14076.1	13666.1	12804.6
40°	15068.4	15294.2	15502.1	15187.2	15163.5	15205.0	14765.4	14688.1	13844.4	13392.8
42.5°	16209.2	16304.3	16345.9	16334.0	16470.6	16470.6	15632.9	15466.5	14866.4	14498.0
45°	17718.4	17795.7	17944.2	18051.2	17896.7	17973.9	16779.6	16714.3	16179.5	16108.2
47.5°	19025.6	19209.8	19542.6	19857.5	20059.5	19798.0	18490.9	18027.4	17890.7	18318.5
50°	20166.4	19946.6	20725.0	21045.8	21931.2	22364.9	20380.3	20196.1	19976.3	20796.3
52.5°	20279.3	20576.4	21675.7	22317.4	24141.5	24943.6	22697.6	22620.4	22353.0	23297.8
55°	21087.4	21051.8	22156.9	23547.3	25716.1	27064.9	25716.1	25668.5	25086.2	25983.5
57.5°	20950.8	21313.2	22186.6	24129.6	27136.2	29340.6	29215.8	28889.0	28075.0	28805.8
60°	20487.3	20582.4	21645.9	24111.8	27962.1	31675.7	32994.8	33060.1	31396.4	31978.7
62.5°	17861.0	18080.9	19429.7	22216.4	27373.8	33285.9	36684.6	36452.9	35121.9	34456.4
65°	14206.8	13987.0	15389.2	18401.7	23713.7	32145.1	38300.8	39162.3	37070.8	35852.8
67.5°	8710.7	8657.2	10006.0	12662.0	17742.2	27356.0	37011.4	37682.8	36530.1	35555.7
70°	4486.1	4349.4	5193.1	7064.8	11152.7	20071.4	32210.4	32870.0	33969.2	31889.6
72.5°	2091.5	2061.8	2513.4	3475.9	5680.4	11800.4	24943.6	25419.0	27736.3	26886.6
75°	1230.0	1247.8	1503.3	1818.2	2768.9	5561.5	16553.8	17474.8	19988.2	19376.2
77.5°	921.0	921.0	1069.5	1265.6	1616.2	2150.9	8170.0	9388.0	11687.5	10511.0
80°	677.4	689.2	820.0	950.7	1123.0	1111.1	3244.2	3802.7	5359.5	4581.1
82.5°	528.8	546.6	635.8	707.1	790.3	671.4	1331.0	1432.0	2204.4	1752.8
85°	368.4	380.3	499.1	481.3	481.3	374.3	552.6	582.3	873.4	831.9
87.5°	89.1	101.0	243.6	267.4	202.0	112.9	172.3	196.1	314.9	362.4
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°
6815.2	0°	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2	6815.2
6934.1	2.5°	6844.9	6868.7	6969.7	6916.2	6946.0	6821.2	6922.2	6839.0	6910.3	6874.7
6987.5	5°	7035.1	6981.6	7041.0	6999.4	6999.4	7047.0	7118.3	7064.8	7171.7	7124.2
7029.1	7.5°	7112.3	7118.3	7153.9	7159.9	7130.1	7278.7	7284.6	7266.8	7367.8	7344.1
7314.3	10°	7302.5	7308.4	7373.8	7409.4	7379.7	7433.2	7373.8	7326.2	7320.3	7296.5
7540.1	12.5°	7605.5	7664.9	7653.0	7682.7	7688.7	7462.9	7326.2	7094.5	7064.8	7094.5
7872.9	15°	7884.8	7861.0	7872.9	7932.3	7682.7	7320.3	7076.7	6880.6	6892.5	6898.4
8306.6	17.5°	8217.5	8235.3	8253.1	7979.8	7522.3	7094.5	6880.6	6880.6	6821.2	6844.9
8609.7	20°	8597.8	8526.5	8372.0	7985.8	7243.0	6833.1	6767.7	6767.7	6696.4	6648.9
8936.5	22.5°	8894.9	8752.3	8520.5	7801.6	6993.5	6732.0	6571.6	6458.7	6375.5	6280.5
9298.9	25°	9085.0	9007.8	8556.2	7611.4	6809.3	6464.7	6227.0	6054.7	5947.7	5823.0
9584.1	27.5°	9376.1	9227.6	8657.2	7391.6	6607.3	6197.3	5828.9	5561.5	5359.5	5228.8
10017.9	30°	9768.3	9554.4	8585.9	7076.7	6298.3	5733.8	5300.1	4955.5	4723.7	4616.8
10427.8	32.5°	10089.2	9809.9	8526.5	6791.5	5953.7	5264.4	4688.1	4337.5	4206.8	4070.1
11117.1	35°	10701.2	10148.6	8484.9	6631.0	5644.7	4795.0	4189.0	3885.9	3719.6	3517.5
11527.1	37.5°	11170.6	10736.8	8383.9	6298.3	5246.6	4337.5	3808.7	3535.4	3285.8	3071.9
12477.8	40°	11907.3	11556.8	8389.8	5828.9	4777.2	3945.3	3511.6	3226.4	2911.5	2727.3
13886.0	42.5°	13291.8	12364.9	8425.5	5454.6	4248.4	3624.5	3244.2	2905.5	2590.6	2436.1
15490.2	45°	14991.1	13476.0	8205.6	5115.9	3707.7	3321.5	2923.4	2584.7	2382.7	2269.8
17670.9	47.5°	16946.0	14563.3	7908.5	4480.1	3256.1	3000.6	2626.3	2430.2	2281.6	2216.3
20481.4	50°	19132.6	16120.1	7825.3	3897.8	2905.5	2727.3	2483.7	2335.1	2234.1	2156.9
23648.3	52.5°	21949.0	17932.3	7659.0	3297.7	2602.5	2507.4	2430.2	2329.2	2240.1	2174.7
26601.4	55°	24640.6	19940.7	7480.7	2804.5	2388.6	2400.5	2442.1	2352.9	2275.7	2174.7
29911.0	57.5°	27670.9	21990.6	6821.2	2442.1	2228.2	2347.0	2430.2	2329.2	2251.9	2174.7
33297.8	60°	29542.6	23143.3	5531.8	2127.2	2085.6	2246.0	2358.9	2251.9	2168.8	2198.5
34854.5	62.5°	30303.1	22537.2	4171.1	1931.1	1984.6	2109.3	2246.0	2204.4	2145.0	2257.9
34836.7	65°	29007.8	21140.9	2982.8	1764.7	1847.9	1972.7	2145.0	2192.5	2210.3	2430.2
31996.5	67.5°	25811.1	18407.7	2192.5	1628.1	1705.3	1889.5	2216.3	2293.5	2281.6	2555.0
26851.0	70°	20653.7	14397.0	1711.2	1515.2	1651.8	1954.8	2317.3	2317.3	2234.1	2555.0
20481.4	72.5°	15026.8	10148.6	1473.6	1384.4	1515.2	1794.4	2305.4	2299.5	2192.5	2335.1
13042.2	75°	9096.9	5906.1	1301.3	1253.7	1301.3	1538.9	2204.4	2168.8	2020.2	2008.3
6274.5	77.5°	4533.6	2970.9	1063.6	1111.1	1134.9	1289.4	1937.0	1990.5	1788.5	1740.9
2477.7	80°	1913.3	1295.3	885.3	956.6	956.6	1087.3	1610.2	1645.9	1485.4	1396.3
980.4	82.5°	873.4	742.7	754.6	831.9	778.4	843.7	1277.5	1319.1	1206.2	1057.6
415.9	85°	368.4	421.9	576.4	653.6	576.4	546.6	879.4	926.9	784.3	653.6
178.3	87.5°	166.4	231.7	362.4	475.3	291.1	255.5	469.4	487.2	392.2	291.1
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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180°
6815.2
6809.3
7058.8
7308.4
7296.5
7106.4
6981.6
6850.9
6577.6
6227.0
5846.7
5288.2
4676.2
4064.2
3499.7
3077.8
2745.1
2448.0
2293.5
2204.4
2168.8
2168.8
2168.8
2168.8
2174.7
2228.2
2430.2
2572.8
2501.5
2251.9
1984.6
1711.2
1366.6
1033.9
659.5
273.3
0.0

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