

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: P574693

Luminaire Tested: **EPH-VN-07-735-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574693
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

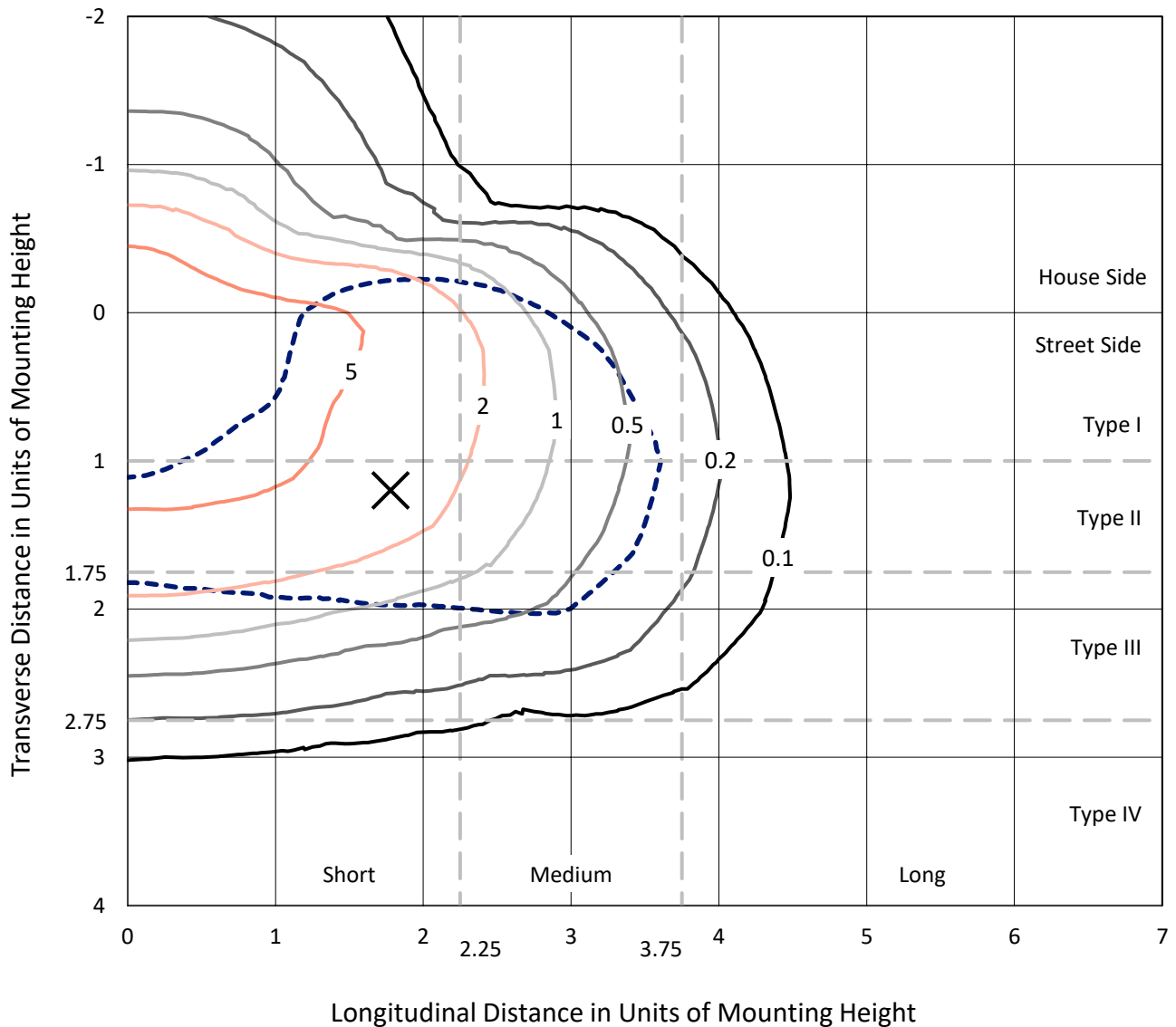
Lumens per Lamp: N/A
Luminaire Lumens: 56709.2 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

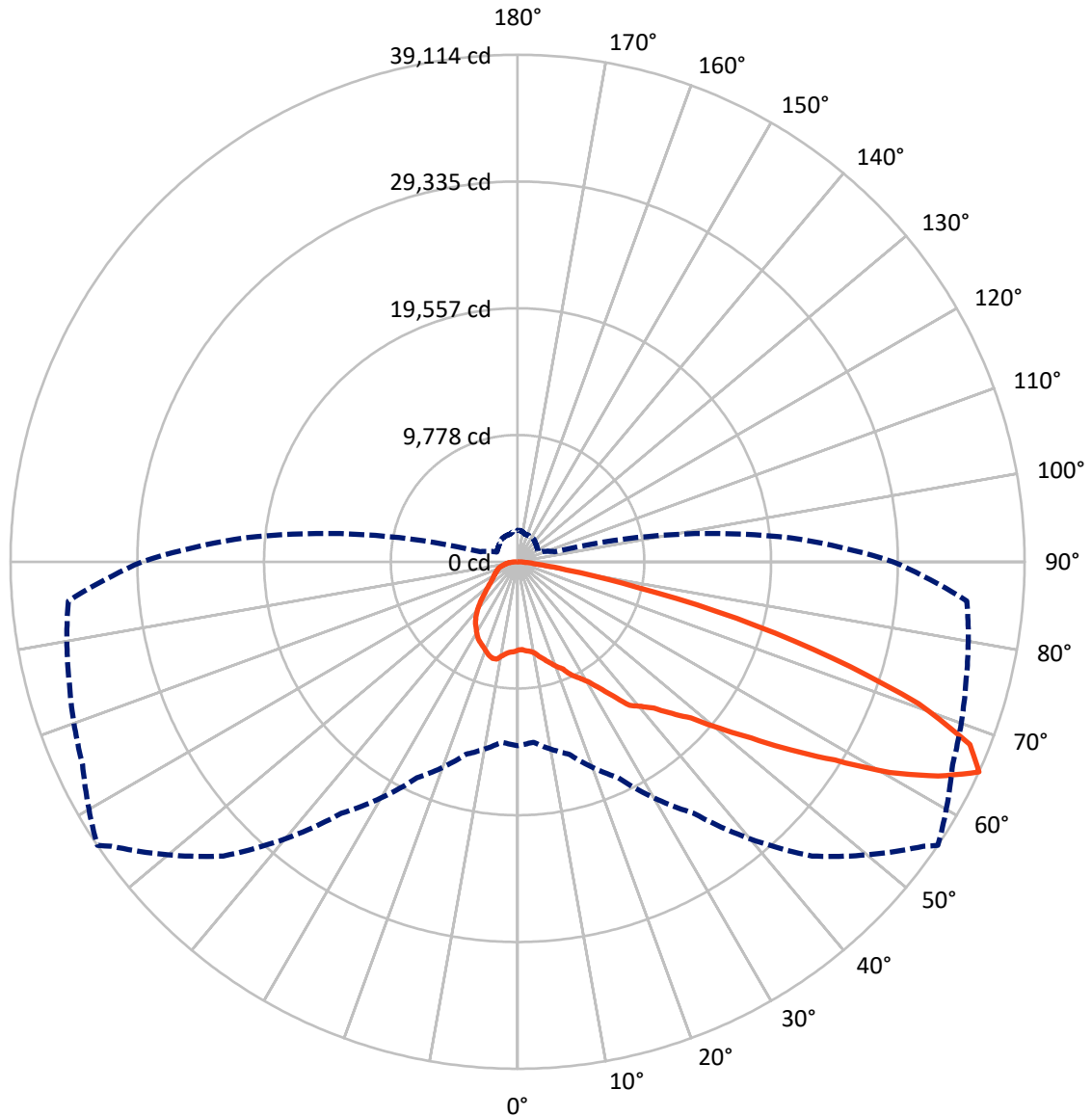
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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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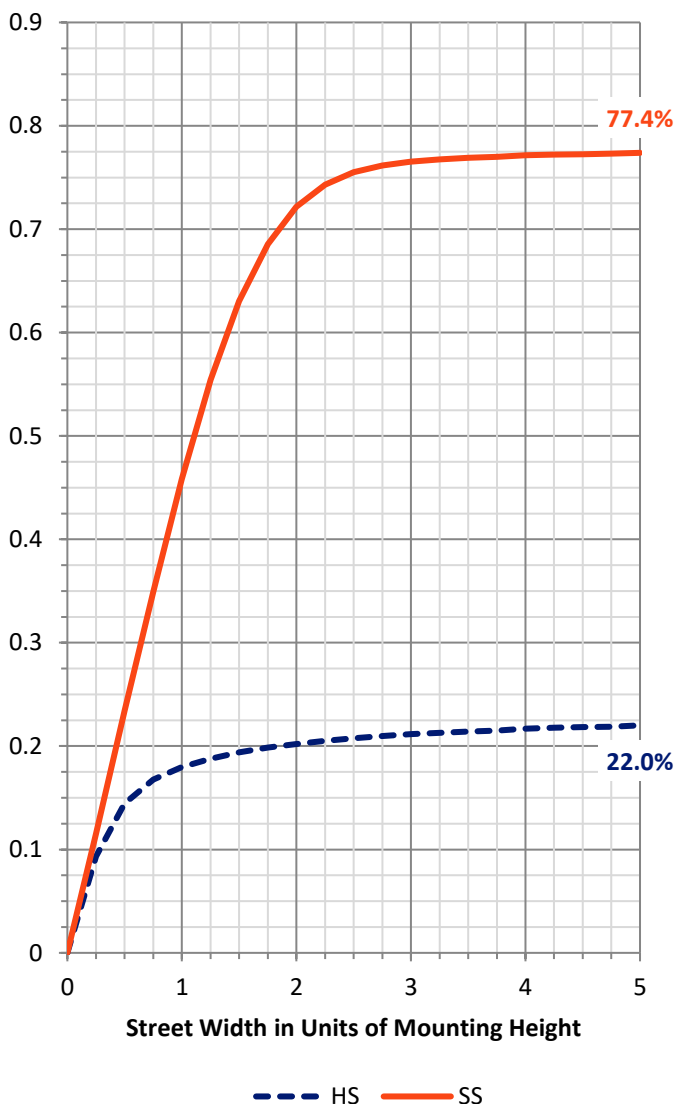
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12718.1	0.0	12718.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	43991.2	0.0	43991.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	56709.2	0.0	56709.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.5	1.2
10°-20°	2190.3	3.9
20°-30°	3899.9	6.9
30°-40°	5840.0	10.3
40°-50°	8652.7	15.3
50°-60°	13332.6	23.5
60°-70°	15094.1	26.6
70°-80°	6264.2	11.0
80°-90°	761.0	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°	56709.2	100.0
0°-180°	56709.2	100.0

Coefficient of Utilization



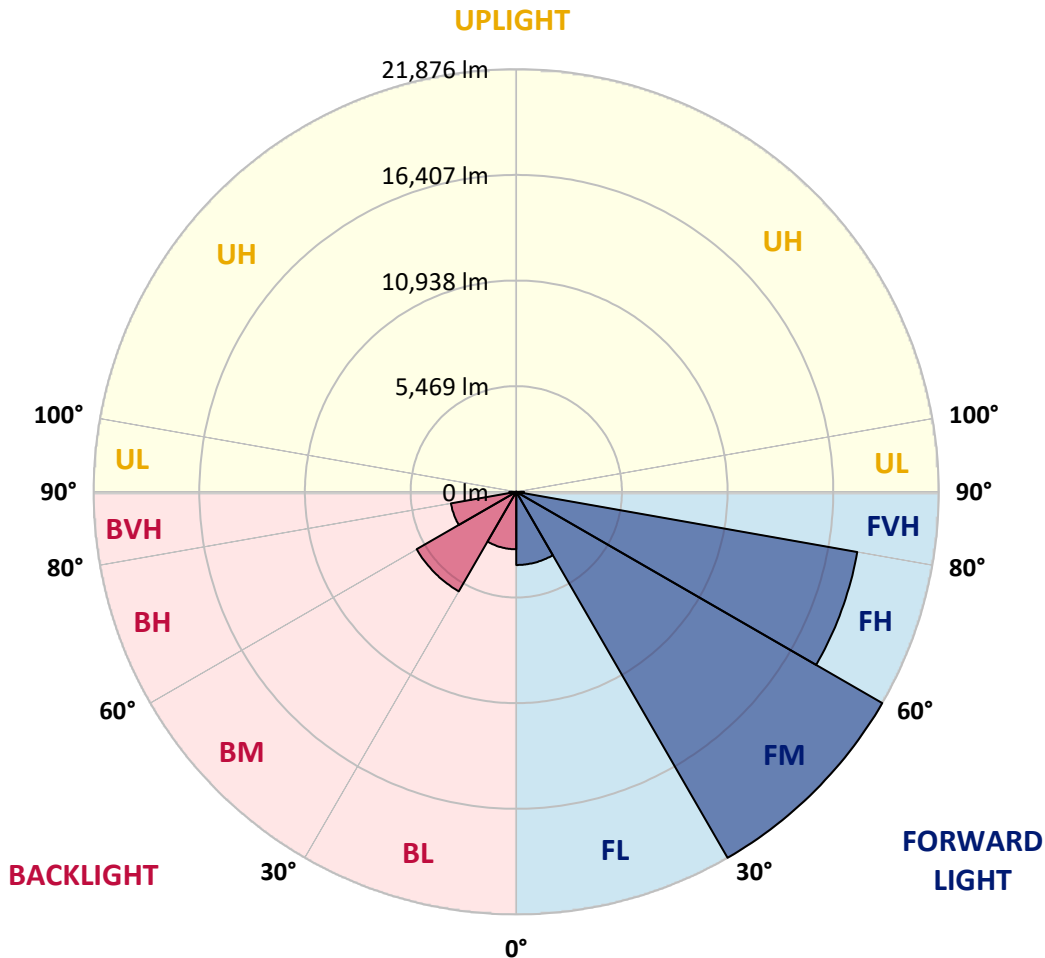
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3789.8	6.7			
FM (30°-60°)	21875.9	38.6			
FH (60°-80°)	17924.0	31.6			G5
FVH (80°-90°)	401.4	0.7			G3/500
BL (0°-30°)	2974.9	5.2	B4/5000		
BM (30°-60°)	5949.3	10.5	B4/8500		
BH (60°-80°)	3434.3	6.1	B4/5000		G4/5000
BVH (80°-90°)	359.6	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°	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7
2.5°	6628.7	6664.3	6640.6	6711.8	6771.1	6771.1	6818.6	6783.0	6830.5	6895.7
5°	6848.3	6705.8	6783.0	6818.6	6800.8	6830.5	6783.0	6901.7	6824.5	6949.2
7.5°	6901.7	6955.1	7020.4	6961.0	7014.4	6984.8	6990.7	6972.9	6931.3	7032.2
10°	7293.3	7216.2	7364.6	7275.5	7263.7	7251.8	7228.1	7139.1	7239.9	7245.9
12.5°	7744.4	7673.1	7667.2	7596.0	7690.9	7518.9	7554.5	7507.0	7524.8	7548.5
15°	8070.7	8041.1	8177.6	8094.5	7969.9	7892.7	7975.8	7845.2	7910.5	7898.7
17.5°	8717.6	8711.7	8610.8	8474.3	8403.1	8290.3	8272.5	8219.1	8266.6	8242.8
20°	9168.6	9233.9	9251.7	9091.5	8818.5	8693.9	8664.2	8622.6	8676.1	8658.3
22.5°	9857.0	9756.1	9833.3	9554.3	9453.5	9156.7	9049.9	8990.6	9245.8	9180.5
25°	10296.1	10403.0	10325.8	10230.9	10005.4	9637.4	9560.3	9690.8	9791.7	9720.5
27.5°	11287.2	11180.4	11109.1	10824.3	10675.9	10290.2	10201.2	10153.7	10177.5	10219.0
30°	12040.8	12100.2	11940.0	11738.2	11364.3	10972.7	10765.0	10723.4	10640.3	10569.1
32.5°	13115.0	13025.9	12931.0	12800.4	12480.0	11963.7	11761.9	11607.6	11358.4	11026.1
35°	13631.3	13886.4	13815.2	13465.1	13221.8	13025.9	12966.6	12729.2	12521.5	11999.3
37.5°	14491.7	14598.6	14497.7	14384.9	14272.2	14064.5	13993.3	14058.5	13649.1	12788.6
40°	15049.6	15275.1	15482.8	15168.3	15144.5	15186.1	14746.9	14669.8	13827.1	13376.1
42.5°	16189.0	16283.9	16325.5	16313.6	16450.1	16450.1	15613.3	15447.2	14847.8	14479.9
45°	17696.3	17773.4	17921.8	18028.6	17874.3	17951.5	16758.7	16693.4	16159.3	16088.1
47.5°	19001.9	19185.8	19518.2	19832.7	20034.4	19773.3	18467.8	18004.9	17868.4	18295.7
50°	20141.3	19921.7	20699.1	21019.6	21903.8	22337.0	20354.9	20170.9	19951.4	20770.3
52.5°	20254.0	20550.7	21648.6	22289.5	24111.4	24912.5	22669.3	22592.2	22325.1	23268.7
55°	21061.1	21025.5	22129.3	23517.9	25684.0	27031.1	25684.0	25636.5	25054.9	25951.0
57.5°	20924.6	21286.6	22158.9	24099.5	27102.3	29303.9	29179.3	28852.9	28039.9	28769.8
60°	20461.7	20556.7	21618.9	24081.7	27927.2	31636.1	32953.6	33018.9	31357.2	31938.8
62.5°	17838.7	18058.3	19405.4	22188.6	27339.7	33244.4	36638.8	36407.4	35078.1	34413.4
65°	14189.1	13969.5	15370.0	18378.8	23684.1	32105.0	38253.0	39113.5	37024.6	35808.0
67.5°	8699.8	8646.4	9993.5	12646.1	17720.0	27321.9	36965.2	37635.8	36484.5	35511.3
70°	4480.5	4344.0	5186.6	7056.0	11138.8	20046.3	32170.2	32829.0	33926.8	31849.8
72.5°	2088.9	2059.2	2510.2	3471.6	5673.3	11785.7	24912.5	25387.2	27701.7	26853.0
75°	1228.4	1246.2	1501.4	1815.9	2765.4	5554.6	16533.2	17453.0	19963.2	19352.0
77.5°	919.8	919.8	1068.2	1264.0	1614.1	2148.2	8159.8	9376.3	11672.9	10497.9
80°	676.5	688.4	818.9	949.5	1121.6	1109.7	3240.2	3798.0	5352.8	4575.4
82.5°	528.2	546.0	635.0	706.2	789.3	670.6	1329.3	1430.2	2201.7	1750.6
85°	367.9	379.8	498.5	480.7	480.7	373.9	551.9	581.6	872.4	830.8
87.5°	89.0	100.9	243.3	267.0	201.8	112.8	172.1	195.8	314.5	362.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6806.7	0°	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7	6806.7
6925.4	2.5°	6836.4	6860.1	6961.0	6907.6	6937.3	6812.7	6913.5	6830.5	6901.7	6866.1
6978.8	5°	7026.3	6972.9	7032.2	6990.7	6990.7	7038.2	7109.4	7056.0	7162.8	7115.3
7020.4	7.5°	7103.4	7109.4	7145.0	7150.9	7121.2	7269.6	7275.5	7257.7	7358.6	7334.9
7305.2	10°	7293.3	7299.3	7364.6	7400.2	7370.5	7423.9	7364.6	7317.1	7311.1	7287.4
7530.7	12.5°	7596.0	7655.3	7643.5	7673.1	7679.1	7453.6	7317.1	7085.6	7056.0	7085.6
7863.0	15°	7874.9	7851.2	7863.0	7922.4	7673.1	7311.1	7067.8	6872.0	6883.9	6889.8
8296.3	17.5°	8207.2	8225.0	8242.8	7969.9	7512.9	7085.6	6872.0	6872.0	6812.7	6836.4
8598.9	20°	8587.0	8515.8	8361.5	7975.8	7234.0	6824.5	6759.3	6759.3	6688.0	6640.6
8925.3	22.5°	8883.8	8741.3	8509.9	7791.8	6984.8	6723.6	6563.4	6450.7	6367.6	6272.6
9287.3	25°	9073.7	8996.5	8545.5	7601.9	6800.8	6456.6	6219.2	6047.1	5940.3	5815.7
9572.1	27.5°	9364.4	9216.1	8646.4	7382.4	6599.0	6189.6	5821.6	5554.6	5352.8	5222.2
10005.4	30°	9756.1	9542.5	8575.2	7067.8	6290.4	5726.7	5293.5	4949.3	4717.8	4611.0
10414.8	32.5°	10076.6	9797.7	8515.8	6783.0	5946.2	5257.9	4682.2	4332.1	4201.5	4065.0
11103.2	35°	10687.8	10135.9	8474.3	6622.8	5637.7	4789.0	4183.7	3881.1	3714.9	3513.1
11512.7	37.5°	11156.6	10723.4	8373.4	6290.4	5240.1	4332.1	3803.9	3531.0	3281.7	3068.1
12462.2	40°	11892.5	11542.4	8379.3	5821.6	4771.2	3940.4	3507.2	3222.4	2907.8	2723.9
13868.6	42.5°	13275.2	12349.4	8414.9	5447.8	4243.1	3620.0	3240.2	2901.9	2587.4	2433.1
15470.9	45°	14972.4	13459.2	8195.4	5109.5	3703.0	3317.3	2919.7	2581.5	2379.7	2266.9
17648.8	47.5°	16924.8	14545.1	7898.7	4474.5	3252.0	2996.9	2623.0	2427.2	2278.8	2213.5
20455.8	50°	19108.7	16100.0	7815.6	3892.9	2901.9	2723.9	2480.6	2332.2	2231.3	2154.2
23618.8	52.5°	21921.6	17909.9	7649.4	3293.6	2599.3	2504.3	2427.2	2326.3	2237.3	2172.0
26568.2	55°	24609.8	19915.8	7471.4	2801.0	2385.6	2397.5	2439.0	2350.0	2272.9	2172.0
29873.6	57.5°	27636.4	21963.1	6812.7	2439.0	2225.4	2344.1	2427.2	2326.3	2249.1	2172.0
33256.2	60°	29505.7	23114.4	5524.9	2124.5	2083.0	2243.2	2355.9	2249.1	2166.0	2195.7
34811.0	62.5°	30265.3	22509.1	4165.9	1928.7	1982.1	2106.7	2243.2	2201.7	2142.3	2255.1
34793.2	65°	28971.6	21114.5	2979.1	1762.5	1845.6	1970.2	2142.3	2189.8	2207.6	2427.2
31956.6	67.5°	25778.9	18384.7	2189.8	1626.0	1703.2	1887.1	2213.5	2290.7	2278.8	2551.8
26817.4	70°	20627.9	14379.0	1709.1	1513.3	1649.8	1952.4	2314.4	2314.4	2231.3	2551.8
20455.8	72.5°	15008.0	10135.9	1471.7	1382.7	1513.3	1792.2	2302.5	2296.6	2189.8	2332.2
13025.9	75°	9085.5	5898.8	1299.6	1252.2	1299.6	1537.0	2201.7	2166.0	2017.7	2005.8
6266.7	77.5°	4527.9	2967.2	1062.3	1109.7	1133.5	1287.8	1934.6	1988.0	1786.2	1738.8
2474.6	80°	1910.9	1293.7	884.2	955.4	955.4	1086.0	1608.2	1643.8	1483.6	1394.6
979.2	82.5°	872.4	741.8	753.7	830.8	777.4	842.7	1275.9	1317.4	1204.7	1056.3
415.4	85°	367.9	421.3	575.6	652.8	575.6	546.0	878.3	925.8	783.3	652.8
178.0	87.5°	166.2	231.4	362.0	474.7	290.8	255.2	468.8	486.6	391.7	290.8
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°
6806.7
6800.8
7050.0
7299.3
7287.4
7097.5
6972.9
6842.3
6569.4
6219.2
5839.4
5281.6
4670.4
4059.1
3495.3
3074.0
2741.7
2445.0
2290.7
2201.7
2166.0
2166.0
2166.0
2166.0
2172.0
2225.4
2427.2
2569.6
2498.4
2249.1
1982.1
1709.1
1364.9
1032.6
658.7
273.0
0.0

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