

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: P638847

Luminaire Tested: **EPH-VN-04-E-740-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638847
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-740-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25777.6 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

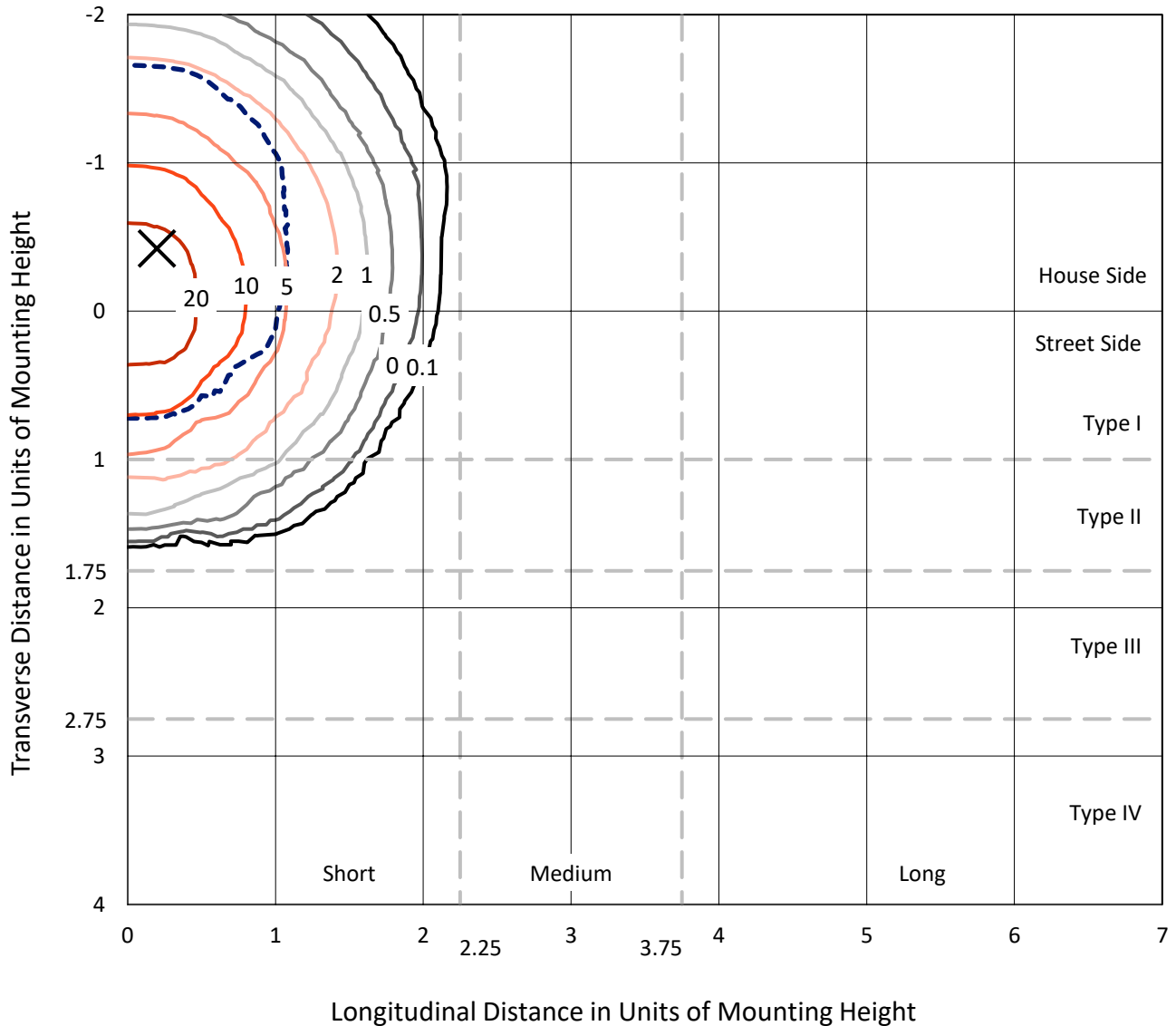
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

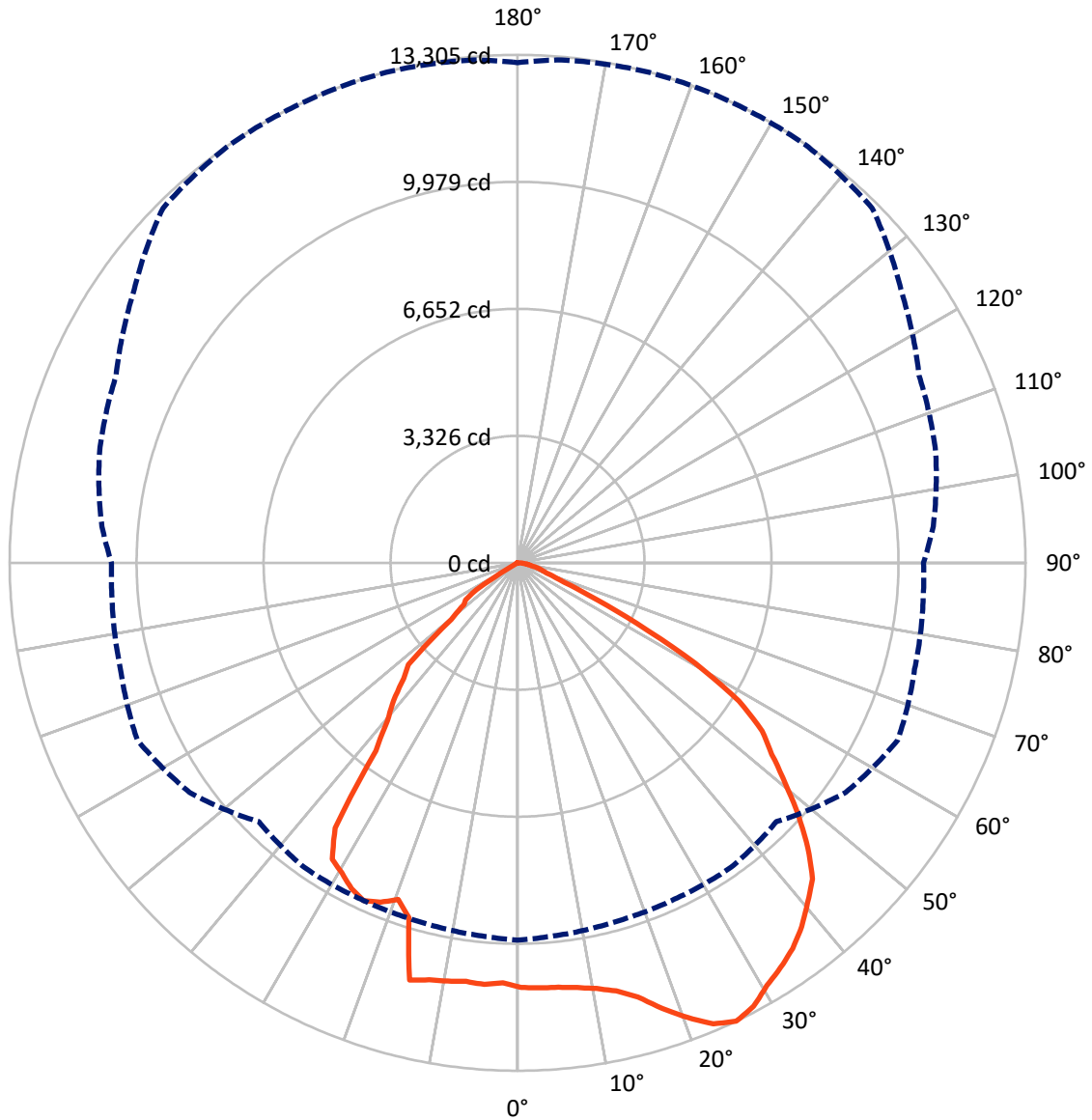
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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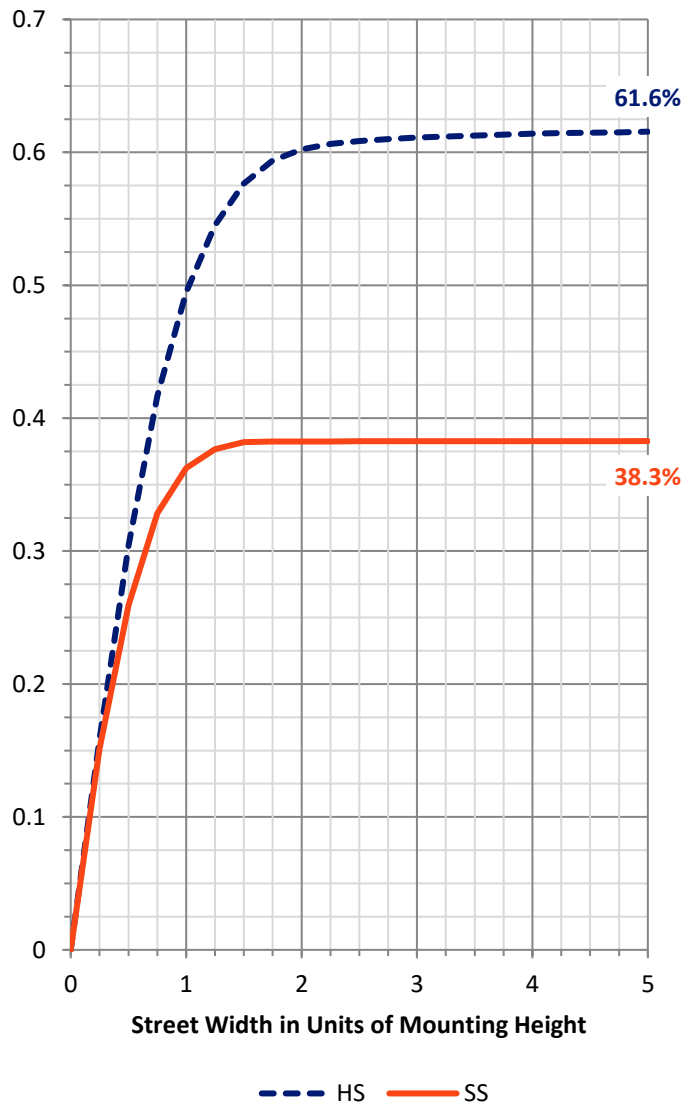
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15959.0	0.0	15959.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9818.6	0.0	9818.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	25777.6	0.0	25777.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1067.1	4.1
10°-20°	3258.2	12.6
20°-30°	5151.1	20.0
30°-40°	5818.6	22.6
40°-50°	5449.2	21.1
50°-60°	3756.8	14.6
60°-70°	1009.3	3.9
70°-80°	210.3	0.8
80°-90°	56.9	0.2
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°	25777.6	100.0
0°-180°	25777.6	100.0

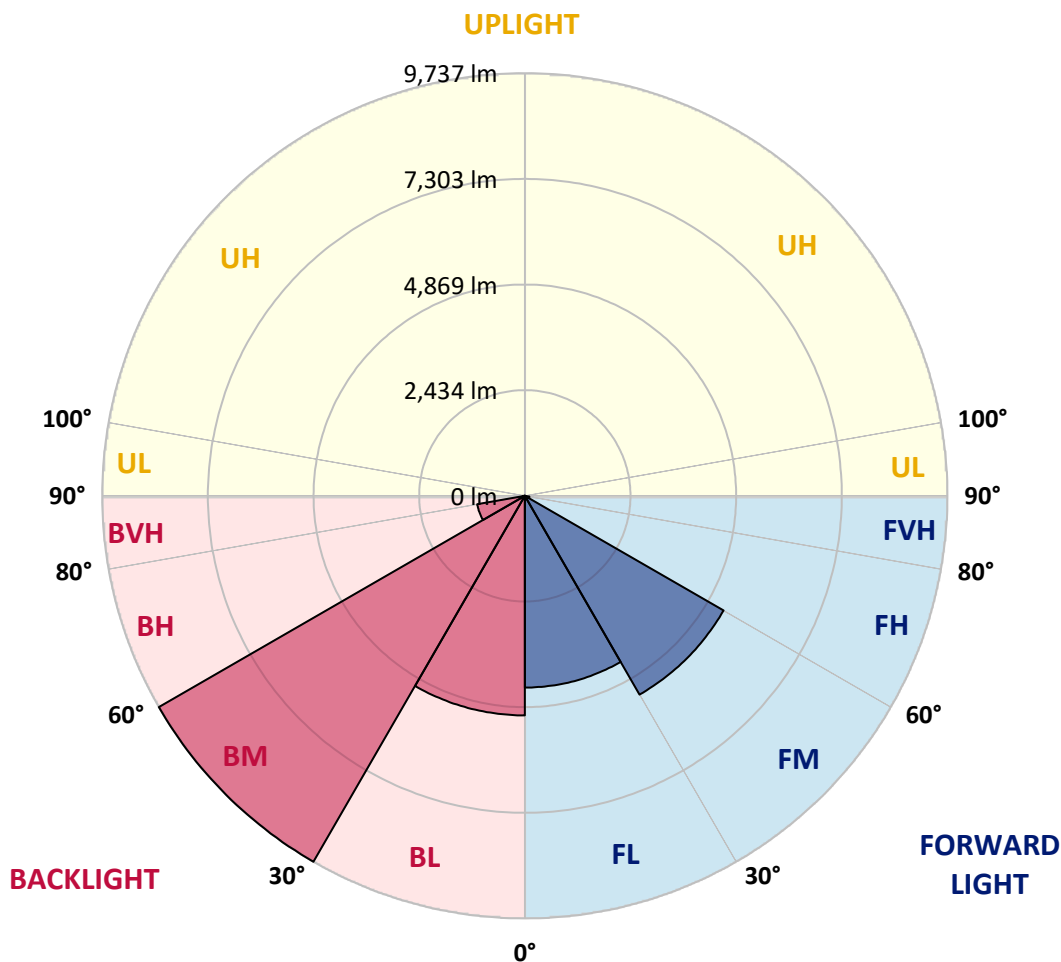


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4417.5	17.1			
FM (30°-60°)	5287.6	20.5			
FH (60°-80°)	106.0	0.4			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	5058.9	19.6	B5		
BM (30°-60°)	9737.1	37.8	B5		
BH (60°-80°)	1113.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	49.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11122.6	11122.6	11122.6	11122.6	11122.6	11122.6	11122.6	11122.6	11122.6	11122.6
2.5°	11171.8	11099.8	11031.7	11008.9	11103.6	11205.9	11141.5	11145.3	11122.6	11164.3
5°	11255.2	11156.7	11111.2	11077.1	11092.3	11198.3	11107.4	11141.5	11103.6	11152.9
7.5°	11224.9	11156.7	11111.2	11046.8	11096.1	11221.1	11133.9	11137.7	11118.8	11164.3
10°	11205.9	11156.7	11099.8	11107.4	11164.3	11270.3	11202.1	11240.0	11213.5	11240.0
12.5°	11251.4	11198.3	11168.0	11168.0	11217.3	11338.5	11304.4	11338.5	11327.2	11349.9
15°	10823.3	10872.5	11160.5	11289.3	11387.8	11509.0	11493.8	11527.9	11535.5	11569.6
17.5°	9129.9	9080.7	9057.9	9720.9	11482.5	11857.5	11846.2	11842.4	11804.5	11778.0
20°	9353.4	9334.5	9308.0	9357.2	9554.2	12039.4	12115.1	11649.2	11512.8	11501.4
22.5°	9709.5	9679.2	9580.7	9584.5	9645.1	10467.2	11740.1	11315.8	11270.3	11243.8
25°	9883.8	9823.2	9743.6	9720.9	9739.8	9588.3	10486.1	10990.0	10766.5	10664.2
27.5°	9576.9	9580.7	9516.3	9576.9	9505.0	8823.1	8440.4	10353.5	10346.0	10300.5
30°	9345.8	9334.5	9258.7	9334.5	8838.2	8076.8	7913.9	9656.5	9576.9	9516.3
32.5°	8637.4	8645.0	8864.7	9160.2	8345.7	7743.4	7250.9	8626.1	9379.9	9345.8
35°	6178.8	6193.9	6974.3	8432.9	7599.4	7080.4	7042.5	7455.5	9069.3	9084.5
37.5°	5947.7	5947.7	5928.8	6167.4	7012.2	6811.4	6887.2	6845.5	8307.8	8345.7
40°	5781.0	5746.9	5720.4	5345.4	4875.6	6622.0	6675.1	6485.6	7853.2	7860.8
42.5°	5580.2	5542.3	5549.9	4856.7	4364.2	6152.3	6004.5	5750.7	7095.6	7103.1
45°	5212.8	5277.2	5322.6	4250.5	4212.6	4394.5	5538.6	5379.4	6584.1	6724.3
47.5°	2651.8	2708.7	4155.8	3909.6	3996.7	3905.8	4678.6	4682.4	5477.9	5943.9
50°	2405.6	2390.4	2394.2	2280.6	3689.8	3159.5	3383.0	4292.2	4386.9	5053.7
52.5°	2242.7	2238.9	2007.8	1784.3	2318.5	2780.6	2454.8	3106.4	3261.8	4280.8
55°	1659.3	1780.5	1583.5	1678.2	1450.9	2227.5	2216.2	2803.4	2856.4	3432.2
57.5°	15.2	18.9	45.5	1276.7	1003.9	1113.8	1530.5	1913.1	2007.8	2674.6
60°	3.8	7.6	18.9	37.9	651.6	685.7	1022.9	1106.2	1246.4	1594.9
62.5°	0.0	0.0	7.6	18.9	34.1	280.3	325.8	356.1	549.3	814.5
65°	0.0	0.0	3.8	11.4	18.9	45.5	79.6	166.7	238.7	295.5
67.5°	0.0	0.0	3.8	7.6	15.2	22.7	45.5	64.4	102.3	174.3
70°	0.0	0.0	3.8	7.6	11.4	18.9	30.3	45.5	60.6	87.1
72.5°	0.0	0.0	3.8	7.6	7.6	22.7	22.7	34.1	45.5	56.8
75°	0.0	0.0	3.8	3.8	7.6	15.2	22.7	26.5	30.3	45.5
77.5°	0.0	0.0	3.8	7.6	11.4	15.2	18.9	30.3	26.5	26.5
80°	0.0	0.0	3.8	11.4	11.4	18.9	22.7	30.3	18.9	18.9
82.5°	0.0	0.0	3.8	15.2	11.4	37.9	37.9	41.7	15.2	15.2
85°	0.0	0.0	11.4	7.6	22.7	37.9	34.1	22.7	18.9	11.4
87.5°	0.0	0.0	3.8	3.8	7.6	11.4	26.5	22.7	7.6	7.6
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
11122.6	0°	11122.6	11122.6	11122.6	11122.6	11122.6	11122.6	11122.6	11122.6	11122.6
11054.4	2.5°	11205.9	11156.7	11259.0	11247.6	11198.3	11175.6	11149.1	11126.4	10959.7
11062.0	5°	11209.7	11133.9	11259.0	11236.2	11228.7	11190.8	11168.0	11202.1	11050.6
11092.3	7.5°	11209.7	11133.9	11270.3	11277.9	11266.5	11236.2	11232.4	11255.2	11130.2
11145.3	10°	11285.5	11255.2	11368.8	11380.2	11365.0	11357.5	11338.5	11323.4	11190.8
11327.2	12.5°	11444.6	11384.0	11512.8	11546.9	11535.5	11554.5	11509.0	11531.7	11395.3
11512.8	15°	11637.8	11641.6	11740.1	11815.8	11808.3	11868.9	11800.7	11861.3	11762.8
11724.9	17.5°	11933.3	11975.0	12115.1	12228.8	12270.4	12315.9	12270.4	12289.4	12149.2
11490.0	20°	11622.6	11778.0	12452.3	12660.6	12747.8	12789.5	12713.7	12736.4	12596.2
11202.1	22.5°	11342.3	11543.1	12141.6	12793.2	13062.2	13145.6	13119.0	13115.2	13062.2
10633.9	25°	10929.4	11334.7	11603.7	12293.2	13138.0	13289.5	13304.7	13300.9	13221.3
10285.4	27.5°	10421.7	10512.7	11209.7	11630.2	12607.6	13183.4	13160.7	13050.8	12944.8
9561.8	30°	9773.9	10186.9	10501.3	11171.8	11921.9	12857.6	12857.6	12774.3	12664.4
9304.2	32.5°	9444.3	9978.5	10270.2	10512.7	11152.9	12494.0	12645.5	12558.4	12471.2
9103.4	35°	9270.1	9349.6	10031.5	10251.3	10793.0	11793.1	12406.8	12319.7	12255.3
8569.2	37.5°	8887.5	9073.1	9391.3	9978.5	10145.2	11221.1	12088.6	12043.1	11967.4
7876.0	40°	8035.1	8531.4	9020.0	9576.9	9751.2	10486.1	11702.2	11721.1	11618.9
7137.2	42.5°	7531.2	7868.4	8633.6	9008.7	9478.4	10012.6	11327.2	11357.5	11285.5
6762.2	45°	6940.2	7315.3	7853.2	8535.1	9175.4	9361.0	10664.2	10982.4	10921.8
6015.9	47.5°	6398.5	6701.6	7360.8	8050.2	8758.7	8732.1	9902.7	10501.3	10417.9
5443.9	50°	5629.5	6159.8	6470.5	7103.1	8160.1	8232.1	9092.0	9936.8	9868.6
4625.6	52.5°	4746.8	5413.5	6008.3	6587.9	7554.0	7724.4	8338.1	9361.0	9315.5
3534.5	55°	4148.2	4633.1	5303.7	5769.6	6819.0	7273.6	7773.7	8811.7	8789.0
2905.7	57.5°	2951.1	3886.8	4439.9	5091.5	5644.6	6466.7	6838.0	7694.1	7482.0
1610.0	60°	2000.2	2439.7	3114.0	3814.9	4186.1	5008.2	5352.9	6038.6	5981.8
962.2	62.5°	1056.9	1462.3	1943.4	2295.7	2564.7	3364.1	3508.0	4246.7	4227.8
386.4	65°	466.0	617.5	1053.2	1235.0	1511.5	1882.8	2007.8	2273.0	2208.6
189.4	67.5°	242.5	367.5	594.8	731.2	920.6	1060.7	1163.0	1246.4	1299.4
125.0	70°	147.7	269.0	367.5	507.6	632.7	746.3	825.9	939.5	1007.7
64.4	72.5°	109.9	170.5	253.8	390.2	458.4	591.0	670.5	753.9	814.5
53.0	75°	60.6	113.7	204.6	306.9	367.5	481.1	553.1	609.9	628.9
30.3	77.5°	37.9	87.1	170.5	238.7	287.9	390.2	371.3	424.3	469.8
22.7	80°	26.5	64.4	132.6	197.0	200.8	250.0	295.5	341.0	371.3
15.2	82.5°	18.9	53.0	98.5	151.5	132.6	193.2	231.1	265.2	193.2
11.4	85°	15.2	37.9	49.2	90.9	75.8	136.4	117.4	113.7	75.8
7.6	87.5°	11.4	18.9	34.1	41.7	30.3	30.3	37.9	45.5	37.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11122.6
10846.0
10921.8
10986.2
11080.9
11274.1
11599.9
12028.0
12497.7
12891.7
<i>13100.1</i>
12861.4
12622.8
12399.3
12164.4
11891.6
11596.1
11277.9
10929.4
10478.6
9880.0
9345.8
8815.5
7459.3
5985.6
4231.6
2182.1
1299.4
1011.5
825.9
617.5
477.3
375.0
140.2
75.8
37.9
0.0

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