

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: P638880

Luminaire Tested: **EPH-VN-08-D-940-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638880
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-940-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29690.2 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

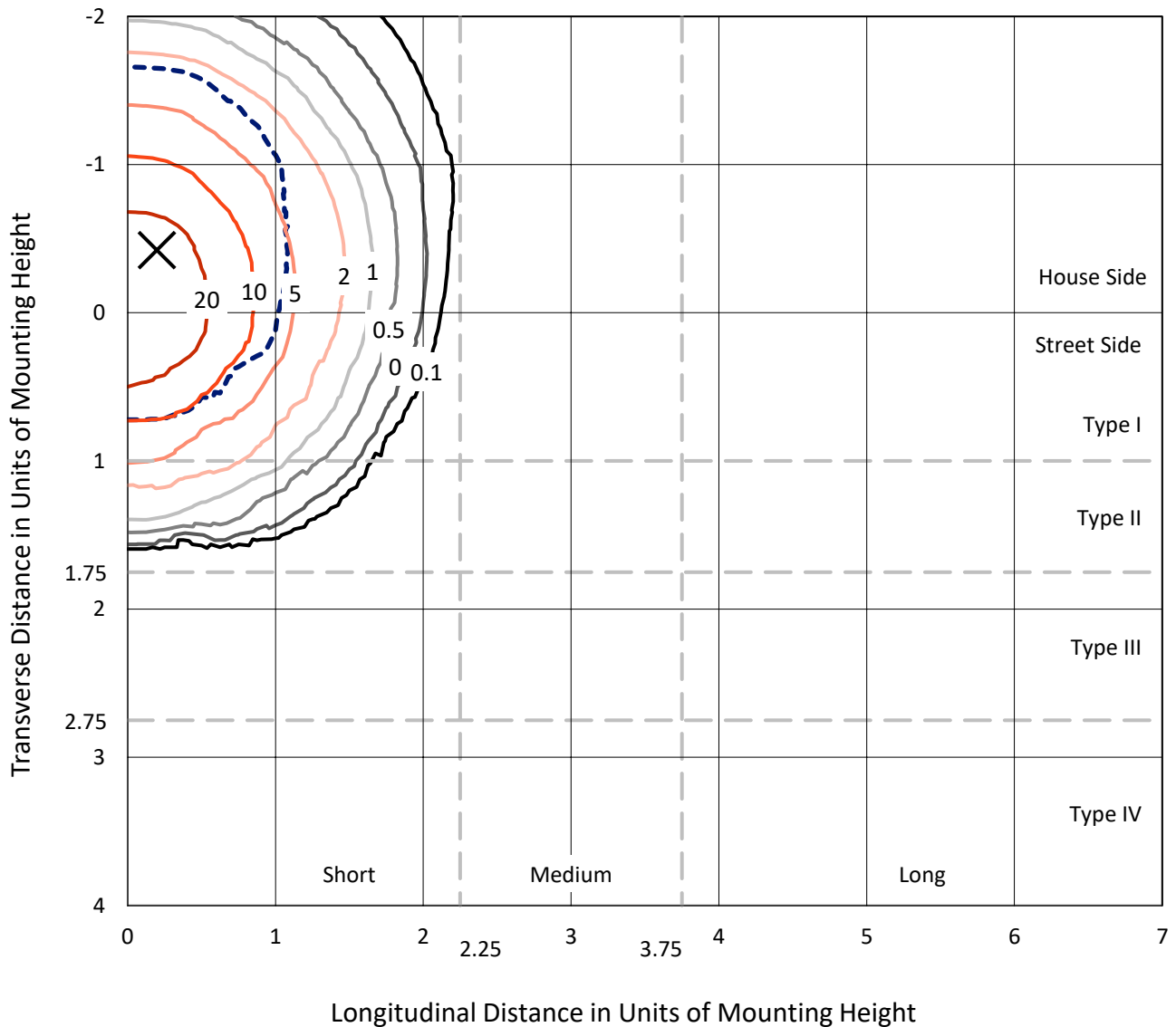
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

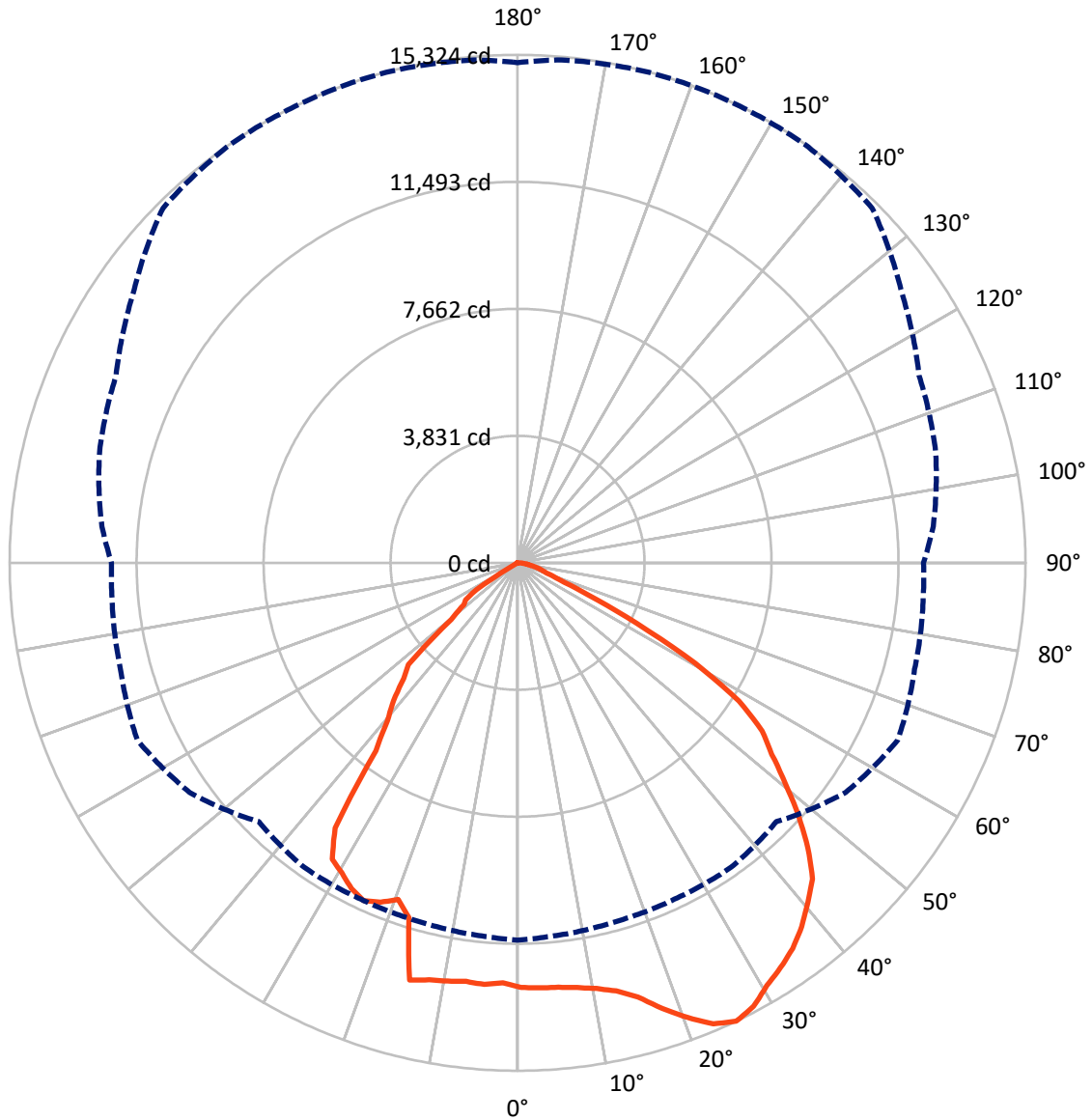
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32 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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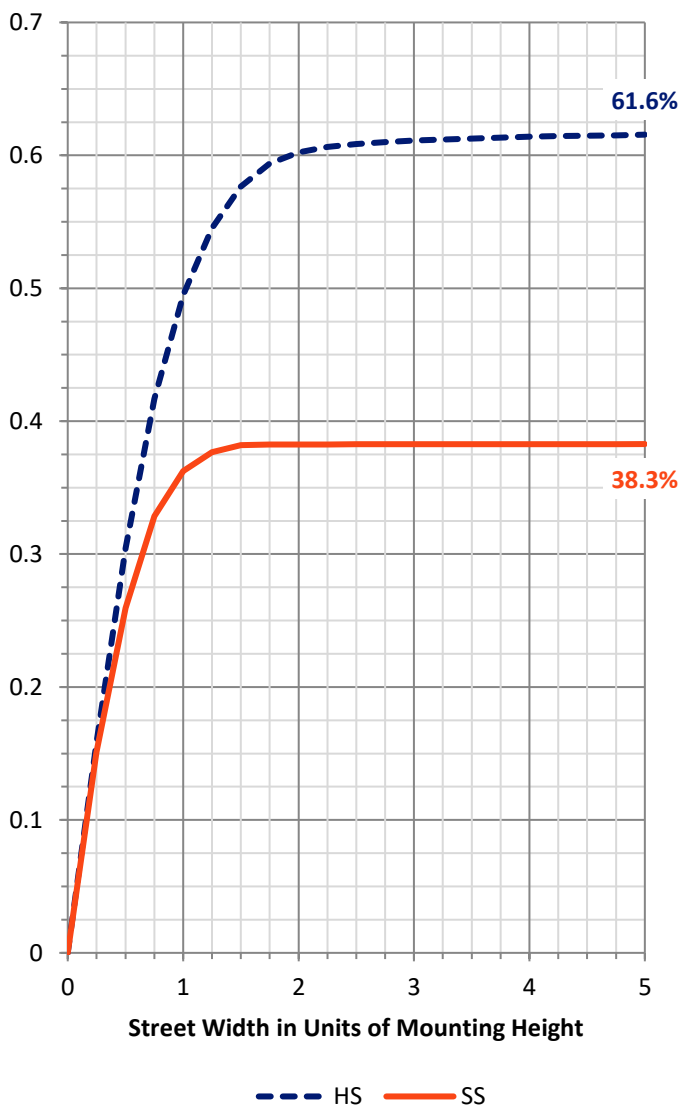
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18381.3	0.0	18381.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11308.9	0.0	11308.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	29690.2	0.0	29690.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1229.0	4.1
10°-20°	3752.8	12.6
20°-30°	5932.9	20.0
30°-40°	6701.8	22.6
40°-50°	6276.3	21.1
50°-60°	4327.1	14.6
60°-70°	1162.5	3.9
70°-80°	242.3	0.8
80°-90°	65.5	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°	29690.2	100.0
0°-180°	29690.2	100.0

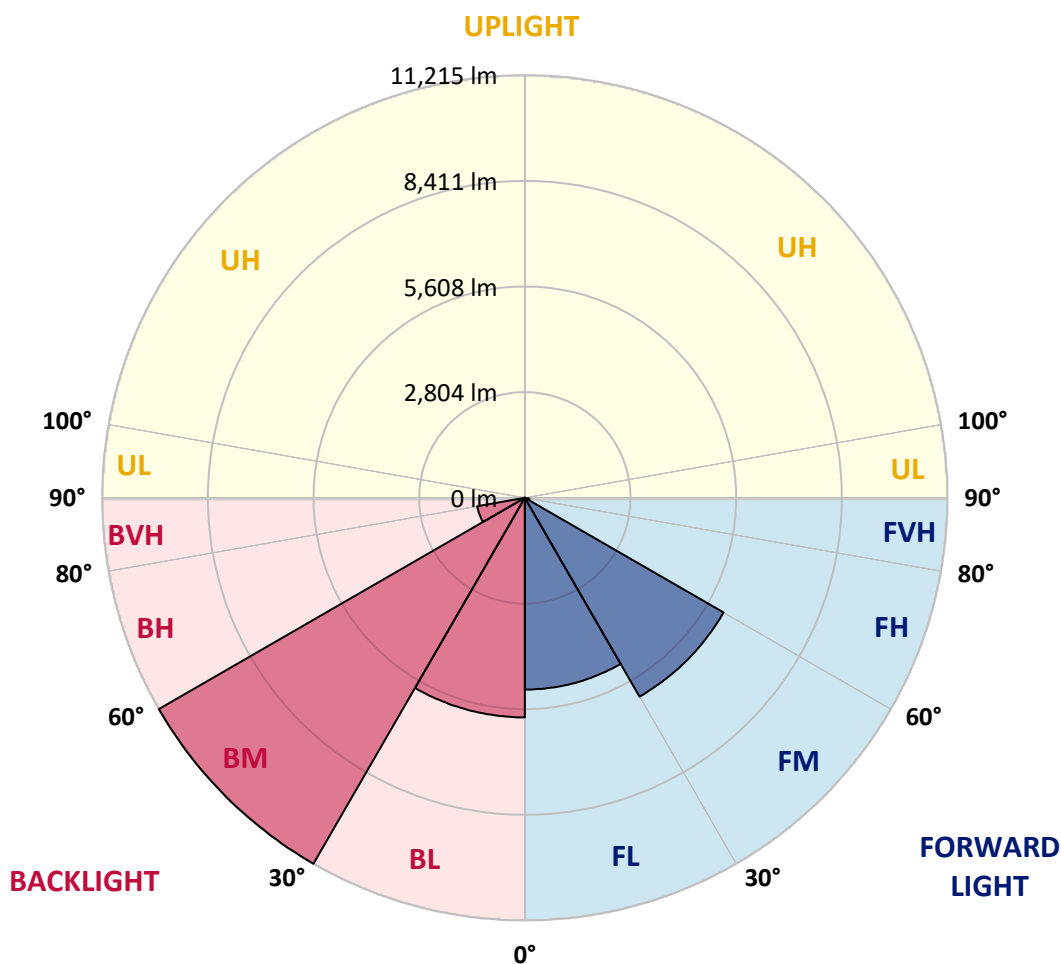


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5088.0	17.1			
FM (30°-60°)	6090.1	20.5			
FH (60°-80°)	122.1	0.4			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	5826.8	19.6	B5		
BM (30°-60°)	11215.0	37.8	B5		
BH (60°-80°)	1282.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	56.7	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°	12810.8	12810.8	12810.8	12810.8	12810.8	12810.8	12810.8	12810.8	12810.8	12810.8
2.5°	12867.5	12784.6	12706.1	12679.9	12789.0	12906.8	12832.6	12837.0	12810.8	12858.8
5°	12963.5	12850.1	12797.7	12758.4	12775.9	12898.1	12793.4	12832.6	12789.0	12845.7
7.5°	12928.6	12850.1	12797.7	12723.5	12780.3	12924.3	12823.9	12828.3	12806.4	12858.8
10°	12906.8	12850.1	12784.6	12793.4	12858.8	12981.0	12902.4	12946.1	12915.5	12946.1
12.5°	12959.2	12898.1	12863.2	12863.2	12919.9	13059.5	13020.2	13059.5	13046.4	13072.6
15°	12466.1	12522.8	12854.4	13002.8	13116.2	13255.9	13238.4	13277.7	13286.4	13325.7
17.5°	10515.7	10459.0	10432.8	11196.4	13225.3	13657.3	13644.2	13639.8	13596.2	13565.7
20°	10773.1	10751.3	10720.8	10777.5	11004.4	13866.7	13954.0	13417.3	13260.2	13247.1
22.5°	11183.3	11148.4	11034.9	11039.3	11109.1	12055.9	13522.0	13033.3	12981.0	12950.4
25°	11384.0	11314.2	11222.5	11196.4	11218.2	11043.6	12077.8	12658.1	12400.7	12282.8
27.5°	11030.6	11034.9	10960.7	11030.6	10947.7	10162.3	9721.6	11925.0	11916.3	11864.0
30°	10764.4	10751.3	10664.0	10751.3	10179.7	9302.7	9115.0	11122.2	11030.6	10960.7
32.5°	9948.4	9957.2	10210.2	10550.6	9612.5	8918.7	8351.5	9935.4	10803.7	10764.4
35°	7116.6	7134.1	8032.9	9712.8	8752.9	8155.1	8111.5	8587.1	10445.9	10463.3
37.5°	6850.5	6850.5	6828.6	7103.5	8076.6	7845.3	7932.6	7884.6	9568.8	9612.5
40°	6658.5	6619.2	6588.7	6156.7	5615.6	7627.1	7688.2	7470.1	9045.2	9054.0
42.5°	6427.2	6383.6	6392.3	5593.8	5026.6	7086.1	6915.9	6623.6	8172.6	8181.3
45°	6004.0	6078.2	6130.5	4895.7	4852.0	5061.5	6379.2	6196.0	7583.5	7745.0
47.5°	3054.3	3119.8	4786.6	4503.0	4603.3	4498.6	5388.7	5393.1	6309.4	6846.1
50°	2770.7	2753.3	2757.6	2626.7	4249.9	3639.0	3896.5	4943.7	5052.8	5820.7
52.5°	2583.1	2578.7	2312.6	2055.1	2670.4	3202.7	2827.5	3577.9	3756.8	4930.6
55°	1911.1	2050.8	1823.9	1933.0	1671.2	2565.7	2552.6	3228.9	3290.0	3953.2
57.5°	17.5	21.8	52.4	1470.5	1156.3	1282.8	1762.8	2203.5	2312.6	3080.5
60°	4.4	8.7	21.8	43.6	750.5	789.8	1178.1	1274.1	1435.5	1837.0
62.5°	0.0	0.0	8.7	21.8	39.3	322.9	375.2	410.2	632.7	938.1
65°	0.0	0.0	4.4	13.1	21.8	52.4	91.6	192.0	274.9	340.3
67.5°	0.0	0.0	4.4	8.7	17.5	26.2	52.4	74.2	117.8	200.7
70°	0.0	0.0	4.4	8.7	13.1	21.8	34.9	52.4	69.8	100.4
72.5°	0.0	0.0	4.4	8.7	8.7	26.2	26.2	39.3	52.4	65.5
75°	0.0	0.0	4.4	4.4	8.7	17.5	26.2	30.5	34.9	52.4
77.5°	0.0	0.0	4.4	8.7	13.1	17.5	21.8	34.9	30.5	30.5
80°	0.0	0.0	4.4	13.1	13.1	21.8	26.2	34.9	21.8	21.8
82.5°	0.0	0.0	4.4	17.5	13.1	43.6	43.6	48.0	17.5	17.5
85°	0.0	0.0	13.1	8.7	26.2	43.6	39.3	26.2	21.8	13.1
87.5°	0.0	0.0	4.4	4.4	8.7	13.1	30.5	26.2	8.7	8.7
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°
12810.8	0°	12810.8	12810.8	12810.8	12810.8	12810.8	12810.8	12810.8	12810.8	12810.8
12732.3	2.5°	12906.8	12850.1	12967.9	12954.8	12898.1	12871.9	12841.3	12815.2	12623.2
12741.0	5°	12911.2	12823.9	12967.9	12941.7	12933.0	12889.3	12863.2	12902.4	12727.9
12775.9	7.5°	12911.2	12823.9	12981.0	12989.7	12976.6	12941.7	12937.3	12963.5	12819.5
12837.0	10°	12998.4	12963.5	13094.4	13107.5	13090.1	13081.3	13059.5	13042.1	12889.3
13046.4	12.5°	13181.7	13111.9	13260.2	13299.5	13286.4	13308.2	13255.9	13282.0	13125.0
13260.2	15°	13404.2	13408.6	13522.0	13609.3	13600.6	13670.4	13591.8	13661.7	13548.2
13504.6	17.5°	13744.6	13792.6	13954.0	14084.9	14132.9	14185.3	14132.9	14154.7	13993.3
13234.1	20°	13386.8	13565.7	14342.3	14582.3	14682.7	14730.7	14643.4	14669.6	14508.2
12902.4	22.5°	13063.9	13295.1	13984.5	14735.0	15044.8	15140.8	15110.3	15105.9	15044.8
12247.9	25°	12588.3	13055.2	13365.0	14159.1	15132.1	15306.6	15324.1	15319.7	15228.1
11846.5	27.5°	12003.6	12108.3	12911.2	13395.5	14521.2	15184.5	15158.3	15031.8	14909.6
11013.1	30°	11257.5	11733.1	12095.2	12867.5	13731.5	14809.2	14809.2	14713.2	14586.7
10716.4	32.5°	10877.8	11493.1	11829.1	12108.3	12845.7	14390.3	14564.9	14464.5	14364.2
10485.1	35°	10677.1	10768.8	11554.2	11807.2	12431.2	13583.1	14290.0	14189.6	14115.4
9869.9	37.5°	10236.4	10450.2	10816.8	11493.1	11685.1	12924.3	13923.5	13871.1	13783.8
9071.4	40°	9254.7	9826.3	10389.1	11030.6	11231.3	12077.8	13478.4	13500.2	13382.4
8220.6	42.5°	8674.3	9062.7	9944.1	10376.1	10917.1	11532.3	13046.4	13081.3	12998.4
7788.6	45°	7993.7	8425.6	9045.2	9830.6	10568.0	10781.8	12282.8	12649.4	12579.5
6929.0	47.5°	7369.7	7718.8	8478.0	9272.1	10088.1	10057.5	11405.8	12095.2	11999.2
6270.1	50°	6483.9	7094.8	7452.6	8181.3	9398.7	9481.6	10472.0	11445.1	11366.5
5327.7	52.5°	5467.3	6235.2	6920.3	7587.9	8700.5	8896.9	9603.7	10781.8	10729.5
4071.0	55°	4777.9	5336.4	6108.7	6645.4	7854.0	8377.6	8953.6	10149.2	10123.0
3346.7	57.5°	3399.1	4476.8	5113.9	5864.3	6501.4	7448.2	7875.9	8862.0	8617.6
1854.4	60°	2303.9	2810.0	3586.7	4393.9	4821.5	5768.4	6165.4	6955.2	6889.7
1108.3	62.5°	1217.4	1684.3	2238.4	2644.2	2954.0	3874.7	4040.5	4891.3	4869.5
445.1	65°	536.7	711.2	1213.0	1422.5	1741.0	2168.6	2312.6	2618.0	2543.8
218.2	67.5°	279.3	423.2	685.0	842.1	1060.3	1221.7	1339.5	1435.5	1496.6
144.0	70°	170.2	309.8	423.2	584.7	728.7	859.6	951.2	1082.1	1160.7
74.2	72.5°	126.5	196.4	292.3	449.4	528.0	680.7	772.3	868.3	938.1
61.1	75°	69.8	130.9	235.6	353.4	423.2	554.1	637.0	702.5	724.3
34.9	77.5°	43.6	100.4	196.4	274.9	331.6	449.4	427.6	488.7	541.1
26.2	80°	30.5	74.2	152.7	226.9	231.3	288.0	340.3	392.7	427.6
17.5	82.5°	21.8	61.1	113.4	174.5	152.7	222.5	266.2	305.4	222.5
13.1	85°	17.5	43.6	56.7	104.7	87.3	157.1	135.3	130.9	87.3
8.7	87.5°	13.1	21.8	39.3	48.0	34.9	34.9	43.6	52.4	43.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12810.8
12492.3
12579.5
12653.7
12762.8
12985.3
13360.6
13853.6
14394.7
14848.5
15088.5
14813.6
14538.7
14281.3
14010.7
13696.6
13356.2
12989.7
12588.3
12069.0
11379.6
10764.4
10153.5
8591.4
6894.1
4873.9
2513.3
1496.6
1165.0
951.2
711.2
549.8
432.0
161.4
87.3
43.6
0.0

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