

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: P638881

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

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638881
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-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: 36463.6 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

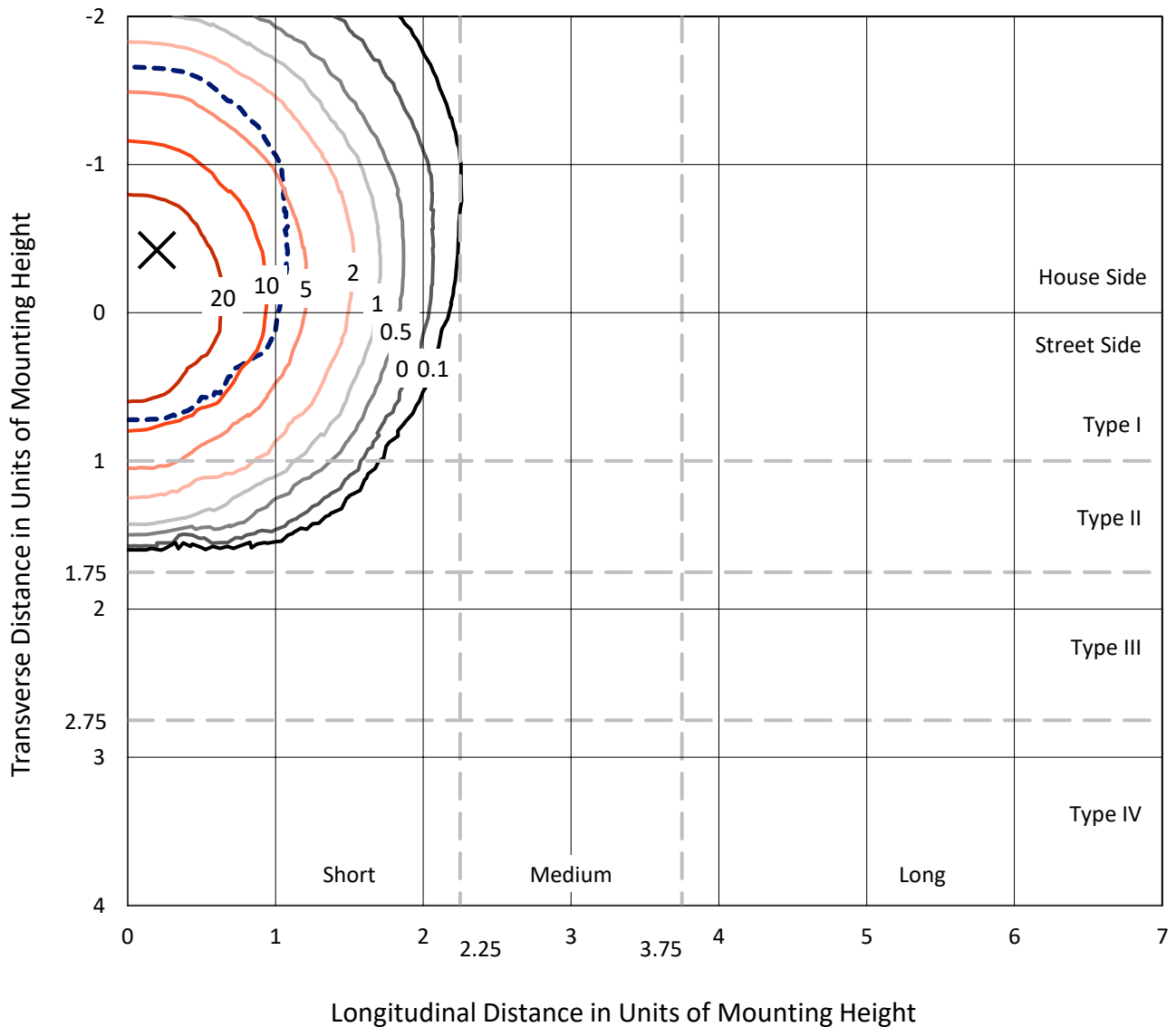
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

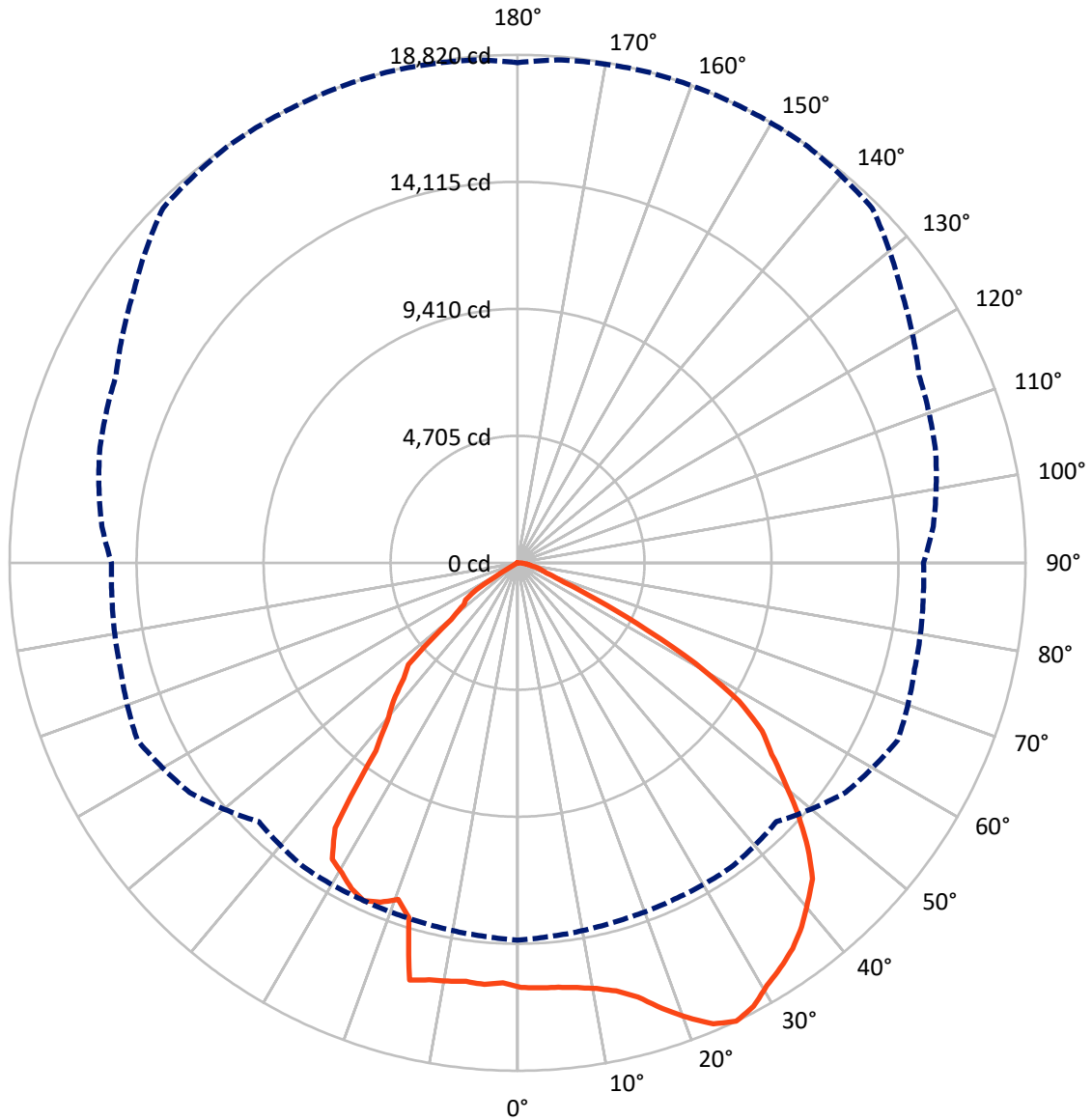
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.3 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	22574.7	0.0	22574.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	13888.9	0.0	13888.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	36463.6	0.0	36463.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1509.4	4.1
10°-20°	4608.9	12.6
20°-30°	7286.4	20.0
30°-40°	8230.7	22.6
40°-50°	7708.2	21.1
50°-60°	5314.2	14.6
60°-70°	1427.8	3.9
70°-80°	297.5	0.8
80°-90°	80.5	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°	36463.6	100.0
0°-180°	36463.6	100.0

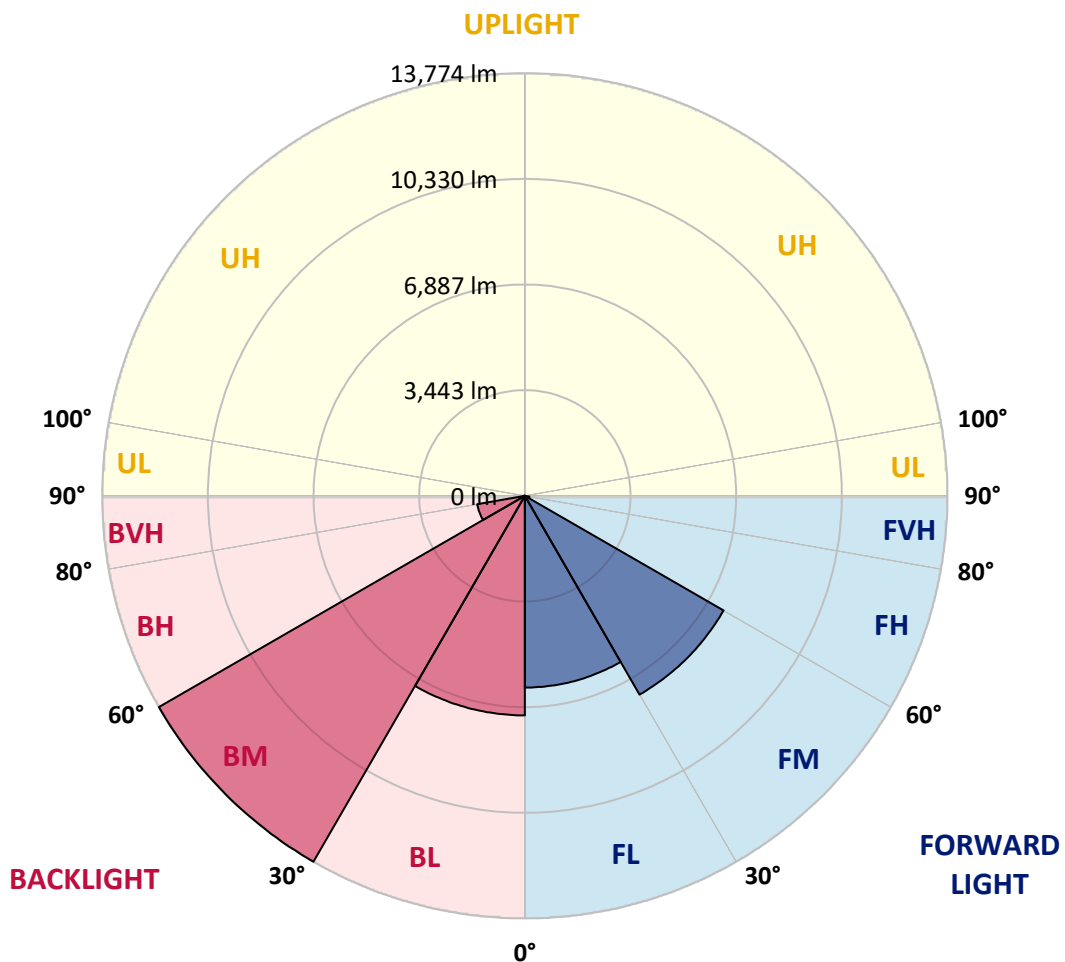


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6248.7	17.1			
FM (30°-60°)	7479.5	20.5			
FH (60°-80°)	149.9	0.4			G0/660
FVH (80°-90°)	10.8	0.0			G1/100
BL (0°-30°)	7156.0	19.6	B5		
BM (30°-60°)	13773.6	37.8	B5		
BH (60°-80°)	1575.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	69.7	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°	15733.4	15733.4	15733.4	15733.4	15733.4	15733.4	15733.4	15733.4	15733.4	15733.4
2.5°	15803.1	15701.2	15604.8	15572.6	15706.6	15851.3	15760.2	15765.5	15733.4	15792.3
5°	15921.0	15781.6	15717.3	15669.1	15690.5	15840.6	15712.0	15760.2	15706.6	15776.3
7.5°	15878.1	15781.6	15717.3	15626.2	15695.9	15872.7	15749.5	15754.8	15728.0	15792.3
10°	15851.3	15781.6	15701.2	15712.0	15792.3	15942.4	15845.9	15899.5	15862.0	15899.5
12.5°	15915.6	15840.6	15797.7	15797.7	15867.4	16038.8	15990.6	16038.8	16022.8	16054.9
15°	15310.1	15379.7	15787.0	15969.2	16108.5	16280.0	16258.6	16306.8	16317.5	16365.7
17.5°	12914.7	12845.0	12812.9	13750.6	16242.5	16773.0	16756.9	16751.6	16698.0	16660.5
20°	13230.8	13204.0	13166.5	13236.2	13514.9	17030.2	17137.4	16478.3	16285.3	16269.3
22.5°	13734.6	13691.7	13552.4	13557.7	13643.5	14806.3	16606.9	16006.7	15942.4	15904.9
25°	13981.1	13895.3	13782.8	13750.6	13777.4	13563.1	14833.1	15545.8	15229.7	15085.0
27.5°	13547.0	13552.4	13461.3	13547.0	13445.2	12480.6	11939.4	14645.6	14634.8	14570.5
30°	13220.1	13204.0	13096.9	13204.0	12502.0	11424.9	11194.5	13659.5	13547.0	13461.3
32.5°	12218.0	12228.7	12539.6	12957.5	11805.4	10953.4	10256.7	12202.0	13268.4	13220.1
35°	8740.2	8761.6	9865.5	11928.7	10749.7	10015.6	9962.0	10546.1	12828.9	12850.4
37.5°	8413.3	8413.3	8386.5	8724.1	9919.1	9635.1	9742.3	9683.3	11751.8	11805.4
40°	8177.5	8129.3	8091.8	7561.2	6896.8	9367.2	9442.2	9174.2	11108.8	11119.5
42.5°	7893.5	7839.9	7850.6	6870.0	6173.3	8702.7	8493.7	8134.6	10037.0	10047.7
45°	7373.7	7464.8	7529.1	6012.6	5959.0	6216.2	7834.5	7609.5	9313.6	9511.8
47.5°	3751.1	3831.5	5878.6	5530.3	5653.5	5524.9	6618.1	6623.5	7748.8	8407.9
50°	3402.8	3381.4	3386.8	3226.0	5219.5	4469.2	4785.4	6071.5	6205.5	7148.6
52.5°	3172.4	3167.0	2840.2	2524.0	3279.6	3933.3	3472.5	4394.2	4613.9	6055.4
55°	2347.1	2518.6	2240.0	2373.9	2052.4	3151.0	3134.9	3965.5	4040.5	4855.1
57.5°	21.4	26.8	64.3	1805.9	1420.1	1575.5	2164.9	2706.2	2840.2	3783.3
60°	5.4	10.7	26.8	53.6	921.7	969.9	1446.9	1564.8	1763.0	2256.0
62.5°	0.0	0.0	10.7	26.8	48.2	396.6	460.9	503.7	777.0	1152.1
65°	0.0	0.0	5.4	16.1	26.8	64.3	112.5	235.8	337.6	418.0
67.5°	0.0	0.0	5.4	10.7	21.4	32.2	64.3	91.1	144.7	246.5
70°	0.0	0.0	5.4	10.7	16.1	26.8	42.9	64.3	85.7	123.3
72.5°	0.0	0.0	5.4	10.7	10.7	32.2	32.2	48.2	64.3	80.4
75°	0.0	0.0	5.4	5.4	10.7	21.4	32.2	37.5	42.9	64.3
77.5°	0.0	0.0	5.4	10.7	16.1	21.4	26.8	42.9	37.5	37.5
80°	0.0	0.0	5.4	16.1	16.1	26.8	32.2	42.9	26.8	26.8
82.5°	0.0	0.0	5.4	21.4	16.1	53.6	53.6	58.9	21.4	21.4
85°	0.0	0.0	16.1	10.7	32.2	53.6	48.2	32.2	26.8	16.1
87.5°	0.0	0.0	5.4	5.4	10.7	16.1	37.5	32.2	10.7	10.7
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°
15733.4	0°	15733.4	15733.4	15733.4	15733.4	15733.4	15733.4	15733.4	15733.4	15733.4
15636.9	2.5°	15851.3	15781.6	15926.3	15910.2	15840.6	15808.4	15770.9	15738.8	15503.0
15647.7	5°	15856.6	15749.5	15926.3	15894.2	15883.4	15829.9	15797.7	15845.9	15631.6
15690.5	7.5°	15856.6	15749.5	15942.4	15953.1	15937.0	15894.2	15888.8	15921.0	15744.1
15765.5	10°	15963.8	15921.0	16081.7	16097.8	16076.4	16065.6	16038.8	16017.4	15829.9
16022.8	12.5°	16188.9	16103.2	16285.3	16333.6	16317.5	16344.3	16280.0	16312.1	16119.2
16285.3	15°	16462.2	16467.5	16606.9	16714.1	16703.3	16789.1	16692.6	16778.4	16639.0
16585.4	17.5°	16880.2	16939.1	17137.4	17298.2	17357.1	17421.4	17357.1	17383.9	17185.6
16253.2	20°	16440.8	16660.5	17614.3	17909.1	18032.3	18091.3	17984.1	18016.2	17818.0
15845.9	22.5°	16044.2	16328.2	17174.9	18096.6	18477.1	18595.0	18557.5	18552.1	18477.1
15042.1	25°	15460.1	16033.5	16414.0	17389.3	18584.3	18798.6	18820.1	18814.7	18702.2
14549.1	27.5°	14742.0	14870.6	15856.6	16451.5	17834.0	18648.6	18616.4	18461.0	18311.0
13525.6	30°	13825.7	14409.8	14854.6	15803.1	16864.1	18187.7	18187.7	18069.8	17914.4
13161.2	32.5°	13359.5	14115.0	14527.7	14870.6	15776.3	17673.3	17887.6	17764.4	17641.1
12877.2	35°	13112.9	13225.5	14190.1	14500.9	15267.2	16681.9	17550.0	17426.8	17335.7
12121.6	37.5°	12571.7	12834.3	13284.4	14115.0	14350.8	15872.7	17099.9	17035.6	16928.4
11140.9	40°	11366.0	12068.0	12759.3	13547.0	13793.5	14833.1	16553.3	16580.1	16435.4
10096.0	42.5°	10653.3	11130.2	12212.7	12743.2	13407.7	14163.3	16022.8	16065.6	15963.8
9565.4	45°	9817.3	10347.8	11108.8	12073.3	12979.0	13241.6	15085.0	15535.1	15449.4
8509.8	47.5°	9051.0	9479.7	10412.1	11387.4	12389.5	12352.0	14007.9	14854.6	14736.7
7700.6	50°	7963.2	8713.4	9152.8	10047.7	11542.8	11644.6	12861.1	14056.1	13959.6
6543.1	52.5°	6714.6	7657.7	8499.0	9318.9	10685.4	10926.6	11794.7	13241.6	13177.3
4999.7	55°	5867.9	6553.8	7502.3	8161.4	9645.8	10288.9	10996.2	12464.5	12432.4
4110.2	57.5°	4174.5	5498.1	6280.5	7202.2	7984.6	9147.4	9672.6	10883.7	10583.6
2277.5	60°	2829.4	3451.1	4404.9	5396.3	5921.5	7084.3	7572.0	8541.9	8461.5
1361.1	62.5°	1495.1	2068.5	2749.1	3247.4	3627.9	4758.6	4962.2	6007.2	5980.4
546.6	65°	659.1	873.5	1489.7	1747.0	2138.2	2663.3	2840.2	3215.3	3124.2
267.9	67.5°	343.0	519.8	841.3	1034.2	1302.2	1500.5	1645.1	1763.0	1838.1
176.8	70°	209.0	380.5	519.8	718.1	894.9	1055.7	1168.2	1329.0	1425.4
91.1	72.5°	155.4	241.1	359.0	552.0	648.4	836.0	948.5	1066.4	1152.1
75.0	75°	85.7	160.8	289.4	434.1	519.8	680.6	782.4	862.8	889.6
42.9	77.5°	53.6	123.3	241.1	337.6	407.3	552.0	525.2	600.2	664.5
32.2	80°	37.5	91.1	187.6	278.7	284.0	353.7	418.0	482.3	525.2
21.4	82.5°	26.8	75.0	139.3	214.4	187.6	273.3	326.9	375.1	273.3
16.1	85°	21.4	53.6	69.7	128.6	107.2	192.9	166.1	160.8	107.2
10.7	87.5°	16.1	26.8	48.2	58.9	42.9	42.9	53.6	64.3	53.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15733.4
15342.2
15449.4
15540.5
15674.4
15947.7
16408.6
17014.1
17678.6
18235.9
18530.7
18193.1
17855.5
17539.3
17207.1
16821.2
16403.2
15953.1
15460.1
14822.4
13975.7
13220.1
12469.9
10551.4
8466.9
5985.8
3086.7
1838.1
1430.8
1168.2
873.5
675.2
530.5
198.3
107.2
53.6
0.0

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