

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: P638824

Luminaire Tested: **EPH-VN-06-E-940-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638824  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-940-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29409.7 lumens  
Efficiency: N/A  
Efficacy: 63.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

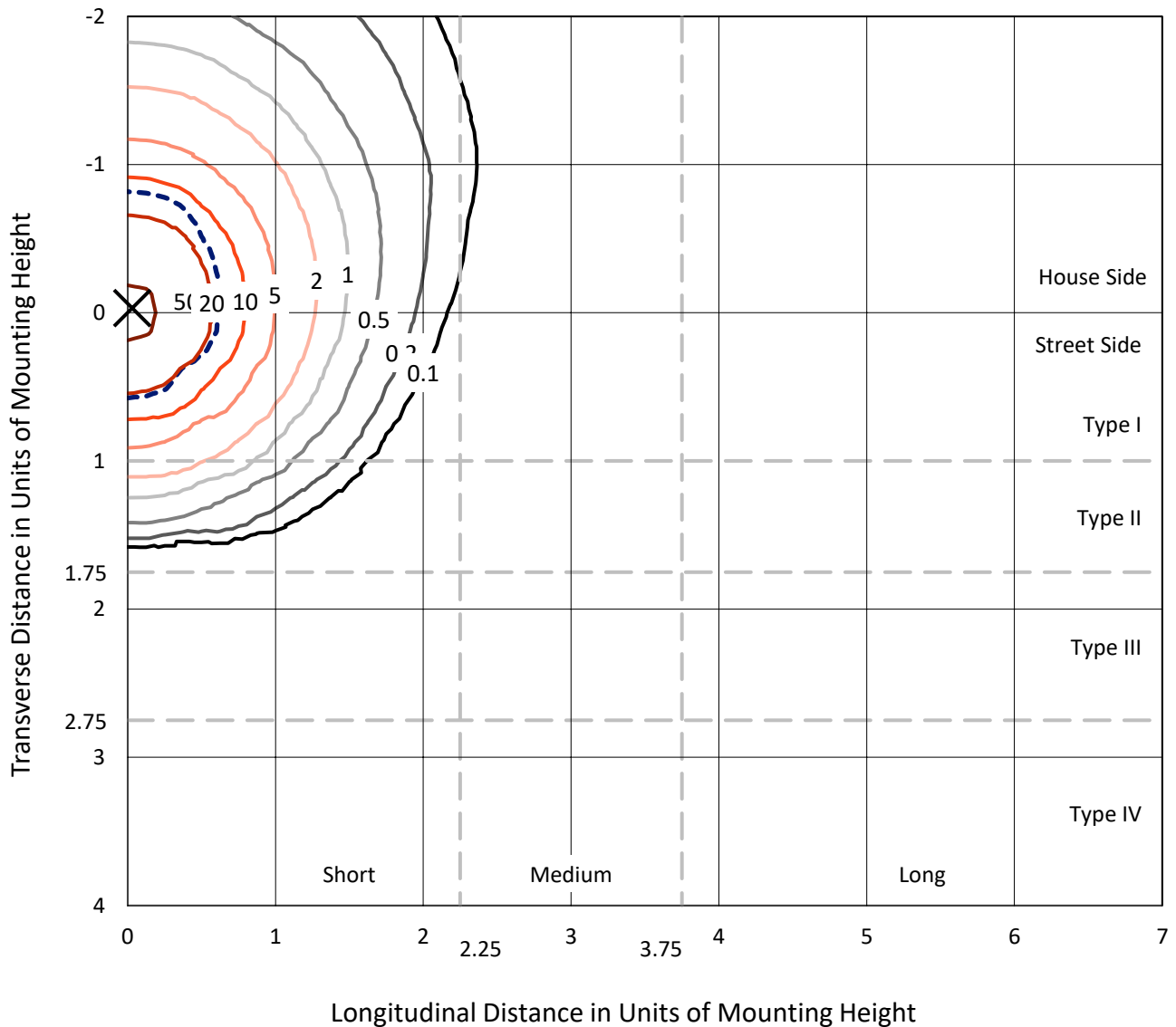
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

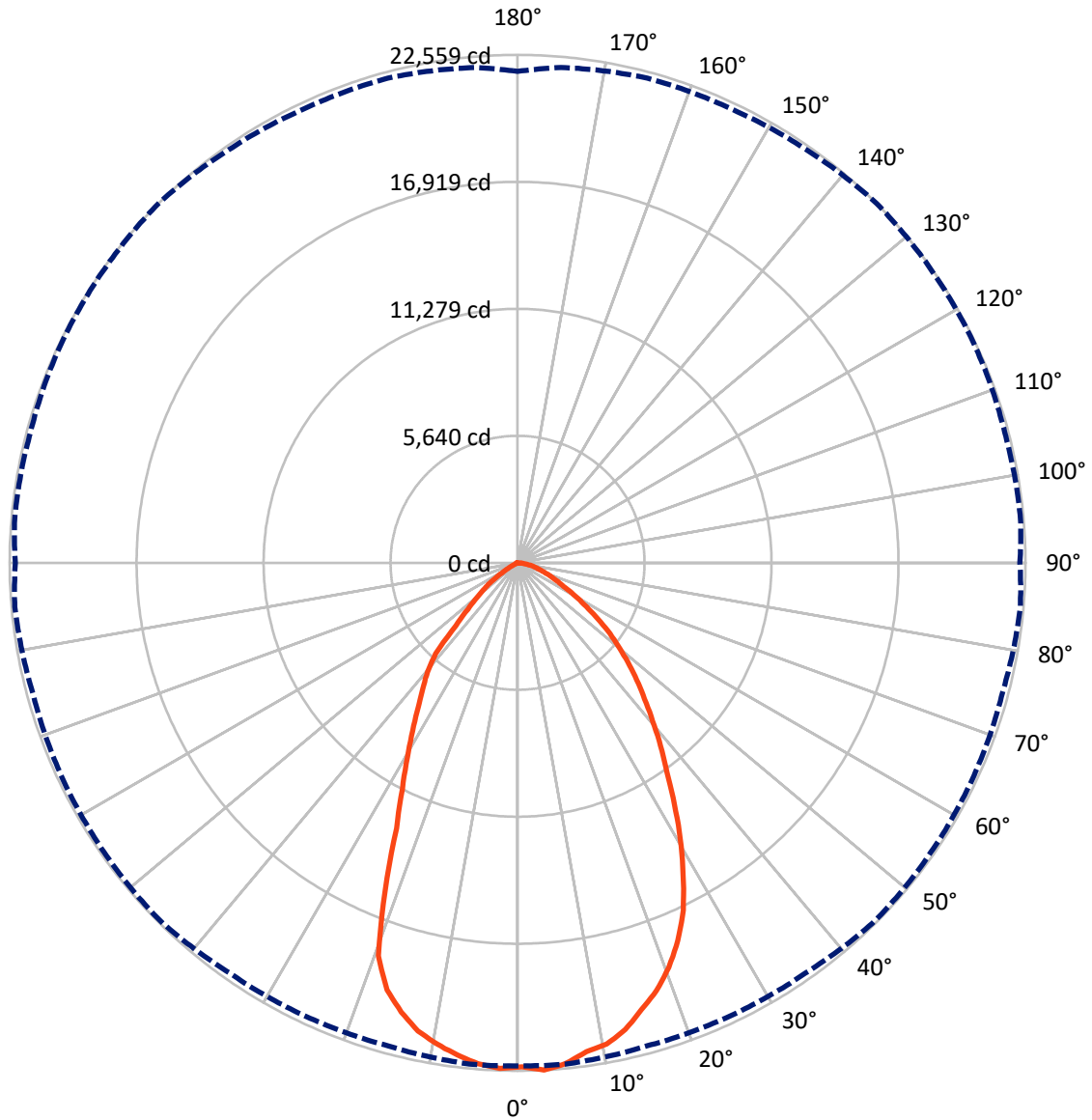
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17417.9	0.0	17417.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11991.8	0.0	11991.8
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	29409.7	0.0	29409.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2098.9	7.1
10°-20°	5628.5	19.1
20°-30°	6864.2	23.3
30°-40°	6267.0	21.3
40°-50°	4529.0	15.4
50°-60°	2472.9	8.4
60°-70°	1022.4	3.5
70°-80°	414.1	1.4
80°-90°	112.6	0.4
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°	29409.7	100.0
0°-180°	29409.7	100.0

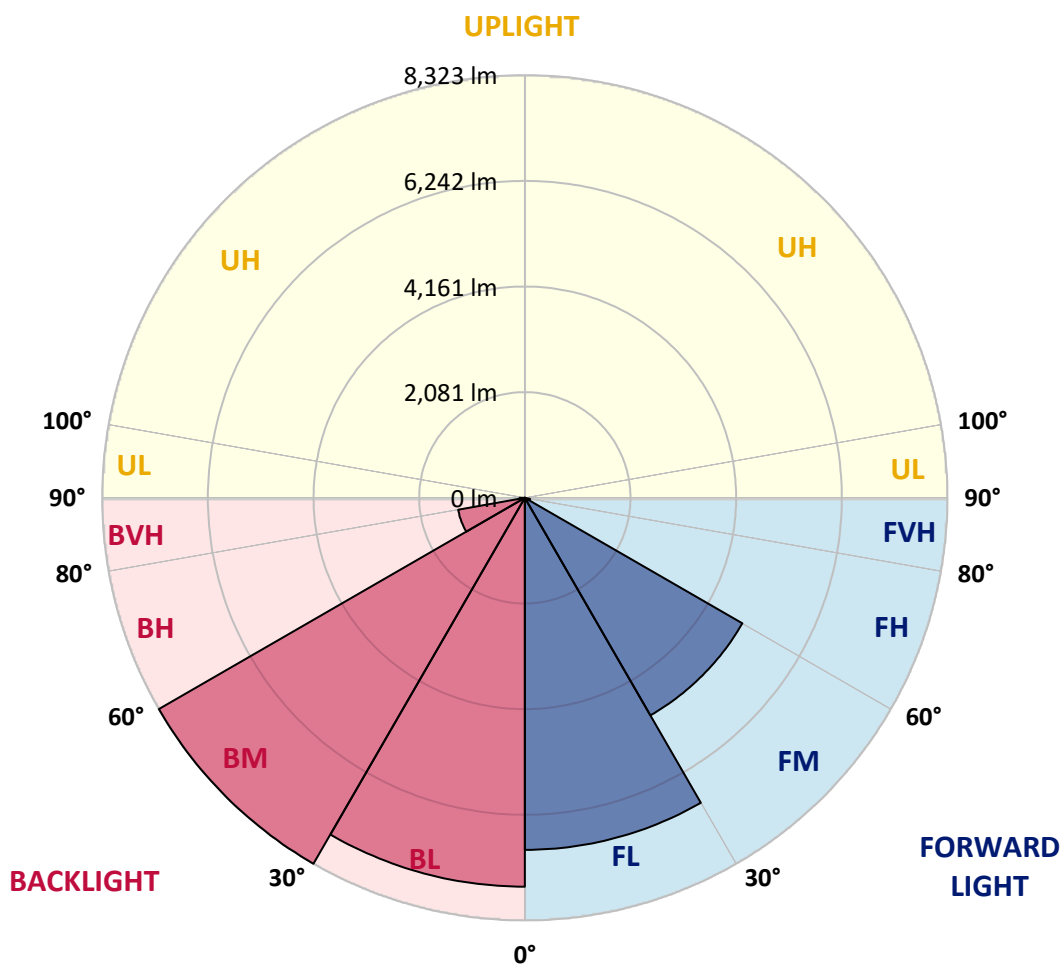


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6933.0	23.6			
FM (30°-60°)	4946.2	16.8			
FH (60°-80°)	103.6	0.4			G0/660
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	7658.7	26.0	B5		
BM (30°-60°)	8322.7	28.3	B4/8500		
BH (60°-80°)	1332.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	103.6	0.4			G2/225
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°	22380.7	22380.7	22380.7	22380.7	22380.7	22380.7	22380.7	22380.7	22380.7	22380.7
2.5°	22339.3	22368.3	22210.9	22227.5	22256.4	22467.7	22413.8	22364.1	22293.7	22413.8
5°	22310.3	22326.8	22161.2	22103.2	22128.1	22318.6	22144.6	22144.6	22128.1	22107.3
7.5°	22086.6	22094.9	21966.5	21863.0	21929.3	22016.2	21887.8	21950.0	21858.9	21929.3
10°	21751.2	21697.3	21544.1	21515.1	21589.7	21672.5	21585.5	21643.5	21560.7	21614.5
12.5°	21258.3	21175.5	21051.3	21014.0	21142.4	21254.2	21183.8	21150.7	21043.0	21175.5
15°	19357.4	19295.3	19576.9	20069.7	20512.9	20608.1	20533.6	20566.7	20343.1	20380.3
17.5°	15932.4	15816.4	16118.7	17286.6	18951.5	19829.5	19763.3	19547.9	19216.6	19291.1
20°	14478.7	14445.6	14412.4	14689.9	15853.7	18516.7	18607.8	18061.1	17589.0	17485.4
22.5°	13658.7	13646.3	13613.1	13675.2	13981.7	15692.2	16735.8	16230.6	15915.8	15886.8
25°	12909.1	12888.4	12789.0	12867.7	12867.7	12967.0	14304.8	14611.2	14333.7	14300.6
27.5°	12147.0	12109.8	12093.2	12130.5	11940.0	11269.0	11608.6	13103.7	12958.8	12967.0
30°	11322.9	11310.4	11264.9	11343.6	10755.5	9923.0	9707.7	11737.0	11766.0	11757.7
32.5°	10097.0	10150.8	10357.9	10444.9	9475.8	8788.3	8428.0	10155.0	10747.2	10734.8
35°	7334.6	7334.6	8009.7	9264.5	8303.7	7786.0	7591.4	8610.2	9740.8	9782.2
37.5°	6030.0	6050.7	6183.3	6754.8	7164.8	6982.6	6924.6	7247.6	8448.7	8514.9
40°	5425.4	5425.4	5425.4	5189.3	5176.9	6290.9	6257.8	6154.3	7297.3	7442.3
42.5°	4874.6	4887.0	4895.3	4298.9	3967.6	5437.8	5363.2	5205.9	6266.1	6435.9
45°	4307.2	4327.9	4352.7	3594.8	3449.9	3913.7	4539.1	4365.1	5247.3	5466.8
47.5°	2629.9	2663.0	3226.2	3048.1	3064.7	3019.2	3702.5	3673.5	4303.0	4613.6
50°	1776.7	1789.1	1843.0	1934.1	2629.9	2373.1	2621.6	3039.9	3267.6	3739.8
52.5°	1490.9	1511.6	1379.1	1254.9	1727.0	1855.4	1830.5	2257.1	2348.2	2932.2
55°	1047.8	1114.1	1051.9	1039.5	981.5	1441.2	1387.4	1735.3	1793.3	2228.1
57.5°	107.7	124.2	215.4	774.5	641.9	815.9	989.8	1271.4	1329.4	1644.2
60°	8.3	8.3	20.7	107.7	468.0	488.7	683.3	782.7	894.6	1147.2
62.5°	0.0	4.1	8.3	16.6	74.5	260.9	343.7	410.0	538.4	741.3
65°	0.0	0.0	4.1	12.4	16.6	99.4	132.5	215.4	294.0	459.7
67.5°	0.0	0.0	4.1	8.3	12.4	24.8	45.6	78.7	157.4	260.9
70°	0.0	0.0	4.1	8.3	12.4	20.7	33.1	49.7	70.4	140.8
72.5°	0.0	0.0	4.1	4.1	8.3	20.7	24.8	33.1	49.7	70.4
75°	0.0	0.0	4.1	4.1	12.4	24.8	20.7	24.8	33.1	45.6
77.5°	0.0	0.0	4.1	8.3	12.4	24.8	20.7	24.8	24.8	29.0
80°	0.0	0.0	4.1	8.3	16.6	29.0	24.8	24.8	20.7	20.7
82.5°	0.0	0.0	4.1	12.4	16.6	37.3	37.3	33.1	16.6	12.4
85°	0.0	0.0	8.3	16.6	24.8	41.4	41.4	33.1	12.4	8.3
87.5°	0.0	0.0	8.3	12.4	20.7	29.0	41.4	33.1	12.4	4.1
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°
22380.7	0°	22380.7	22380.7	22380.7	22380.7	22380.7	22380.7	22380.7	22380.7	22380.7
22310.3	2.5°	22422.1	22397.3	22480.1	22513.2	22558.8	22384.8	22277.1	22281.3	22082.5
22057.7	5°	22190.2	22194.3	22302.0	22293.7	22339.3	22244.0	22202.6	22132.2	21958.3
21738.8	7.5°	21896.1	21858.9	21962.4	22041.1	21925.1	21991.4	21896.1	21929.3	21825.7
21457.1	10°	21668.3	21581.4	21676.6	21730.5	21734.6	21668.3	21577.2	21490.3	21453.0
21018.1	12.5°	21163.1	21051.3	21212.8	21287.3	21274.9	21146.5	21043.0	21063.7	20943.6
20247.8	15°	20467.3	20471.5	20587.4	20657.8	20591.6	20562.6	20570.9	20521.2	20417.6
19183.4	17.5°	19402.9	19465.1	19771.5	19941.3	19978.6	19920.6	19891.6	19833.7	19730.1
17485.4	20°	17630.4	18003.1	18549.8	19075.8	19179.3	19162.7	19059.2	19034.4	18976.4
15804.0	22.5°	16073.2	16350.7	16984.3	17804.3	18226.8	18268.2	18143.9	18106.7	18044.5
14300.6	25°	14462.1	14760.3	15331.8	16222.3	17096.1	17274.2	17253.5	17141.7	17075.4
12967.0	27.5°	13103.7	13401.9	13919.6	14723.0	15659.0	16230.6	16284.4	16106.3	16102.2
11778.4	30°	11877.8	12287.8	12681.3	13335.6	14242.6	15099.9	15191.0	15066.8	15079.2
10689.2	32.5°	10917.0	11256.6	11592.1	12031.1	12784.8	13782.9	14139.1	14023.1	13977.6
9782.2	35°	9935.5	10167.4	10511.1	10912.9	11426.4	12416.2	13033.3	12946.3	12900.8
8556.3	37.5°	8817.3	9214.8	9463.3	9914.8	10316.5	11103.4	11973.1	11960.7	11865.4
7512.7	40°	7670.1	8088.4	8465.2	8920.8	9231.4	9856.8	10821.7	10817.6	10830.0
6431.8	42.5°	6630.5	7015.7	7471.3	7968.3	8266.4	8722.0	9757.4	9815.4	9885.8
5541.3	45°	5690.4	6038.3	6460.7	7065.4	7425.7	7686.6	8606.0	8871.1	8867.0
4746.2	47.5°	4845.6	5172.7	5528.9	6117.0	6576.7	6812.8	7574.8	7951.7	7926.8
3893.0	50°	4067.0	4356.9	4729.6	5156.2	5773.3	5980.3	6547.7	7044.7	7007.4
3102.0	52.5°	3271.8	3673.5	3988.3	4377.6	5027.8	5230.7	5669.7	6154.3	6125.3
2327.5	55°	2551.2	2940.5	3321.5	3656.9	4203.6	4506.0	4820.7	5317.7	5309.4
1822.3	57.5°	1929.9	2356.5	2716.8	3035.7	3470.6	3843.3	4095.9	4547.4	4605.4
1246.6	60°	1428.8	1756.0	2145.3	2501.5	2845.2	3230.4	3400.2	3843.3	3868.2
853.1	62.5°	973.3	1333.6	1714.6	2037.6	2294.4	2692.0	2845.2	3209.7	3255.2
546.7	65°	675.1	907.0	1341.8	1573.8	1888.5	2228.1	2381.4	2671.3	2762.4
314.8	67.5°	447.3	646.1	1047.8	1259.0	1569.6	1801.6	1996.2	2232.3	2331.7
198.8	70°	244.3	476.3	749.6	994.0	1263.2	1486.8	1677.3	1867.8	1954.8
91.1	72.5°	165.7	318.9	521.8	786.9	1018.8	1238.3	1408.1	1548.9	1553.1
53.8	75°	82.8	215.4	397.6	608.8	795.2	1010.5	1163.8	1246.6	1147.2
33.1	77.5°	49.7	157.4	323.0	488.7	646.1	815.9	902.8	948.4	786.9
24.8	80°	29.0	111.8	252.6	389.3	447.3	600.5	683.3	695.8	526.0
16.6	82.5°	20.7	82.8	198.8	285.8	273.3	422.4	513.5	497.0	335.5
12.4	85°	12.4	58.0	124.2	178.1	165.7	277.5	298.2	306.5	194.7
8.3	87.5°	8.3	33.1	66.3	95.3	78.7	120.1	120.1	145.0	95.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
22380.7
21825.7
21916.8
21651.8
21287.3
20840.0
20314.1
19684.6
18843.8
18028.0
17005.0
16093.9
15017.1
13981.7
12838.7
11944.1
10830.0
9848.5
8875.2
7935.1
7040.6
6187.4
5330.1
4580.5
3905.4
3263.5
2741.7
2319.2
1921.7
1515.8
1072.6
757.9
492.8
310.6
178.1
82.8
0.0

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