

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: P638851

Luminaire Tested: **EPH-VN-08-E-740-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638851
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-740-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50461.7 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

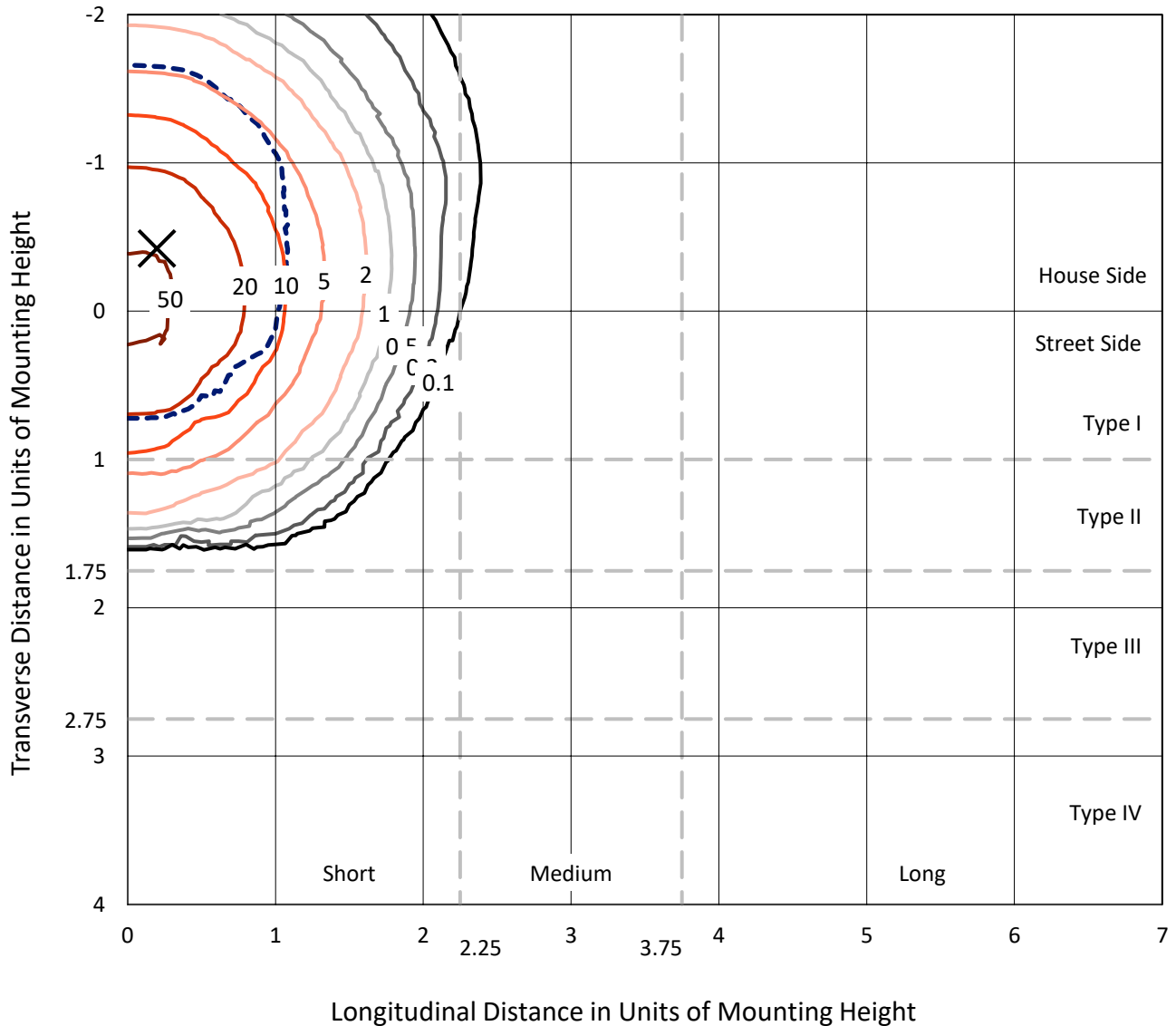
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

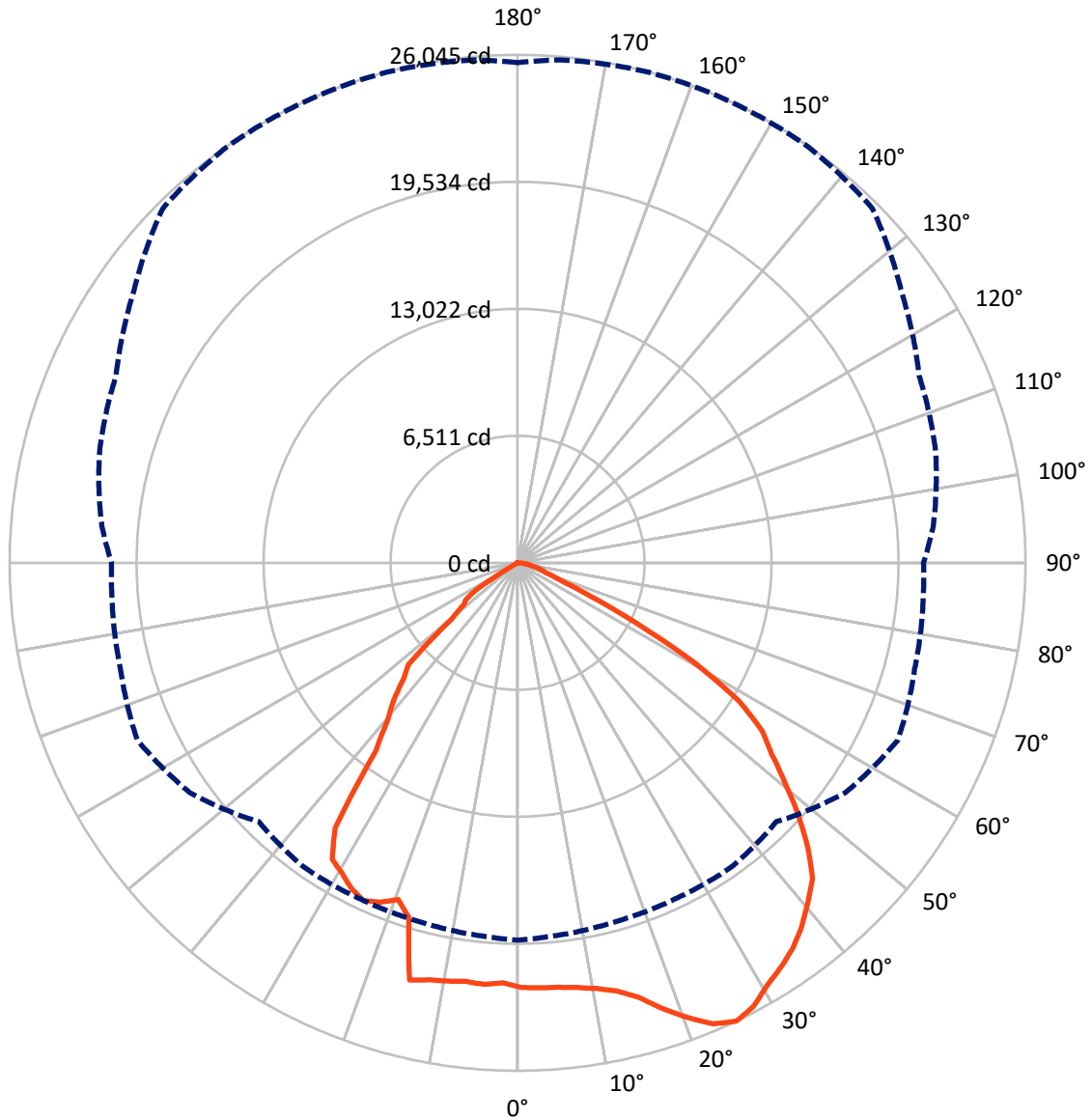
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.4 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	31240.9	0.0	31240.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	19220.7	0.0	19220.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	50461.7	0.0	50461.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2088.9	4.1
10°-20°	6378.2	12.6
20°-30°	10083.6	20.0
30°-40°	11390.3	22.6
40°-50°	10667.3	21.1
50°-60°	7354.3	14.6
60°-70°	1975.9	3.9
70°-80°	411.8	0.8
80°-90°	111.4	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°	50461.7	100.0
0°-180°	50461.7	100.0

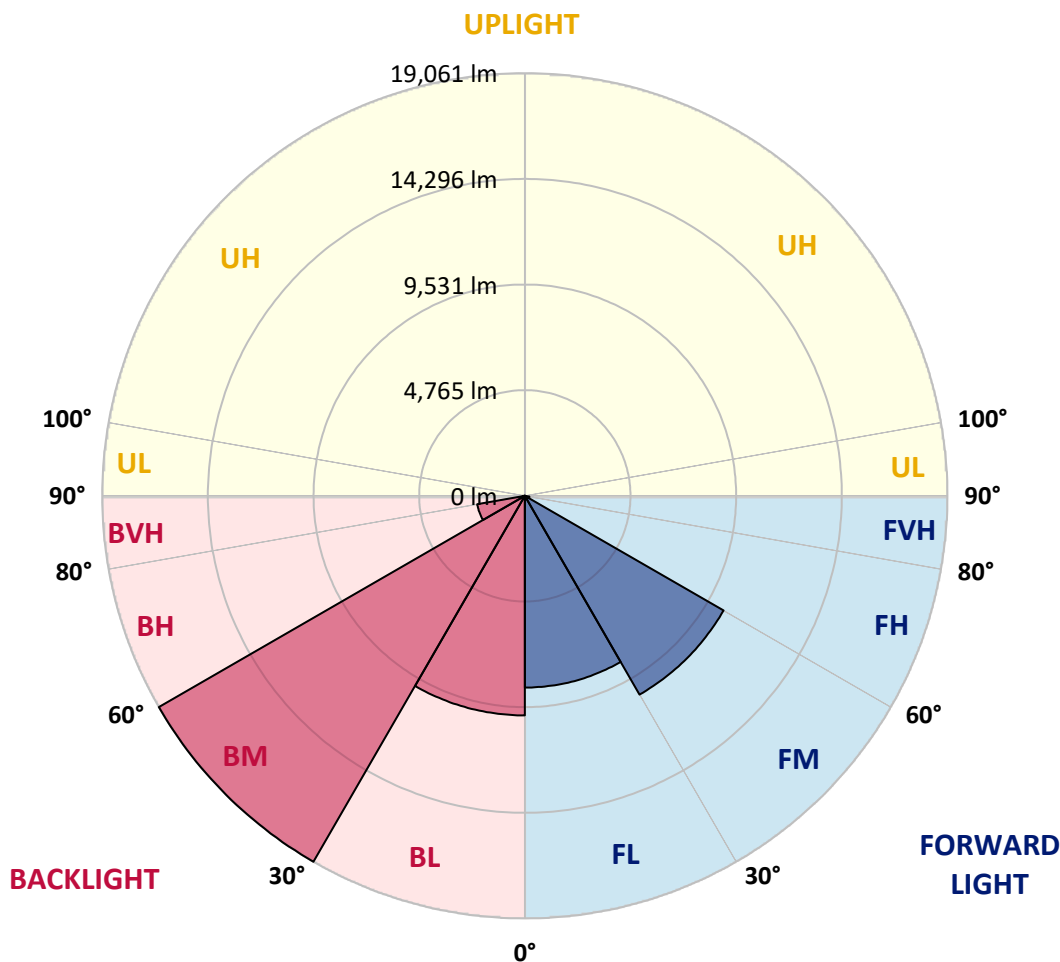


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8647.5	17.1			
FM (30°-60°)	10350.8	20.5			
FH (60°-80°)	207.4	0.4			G0/660
FVH (80°-90°)	14.9	0.0			G1/100
BL (0°-30°)	9903.2	19.6	B5		
BM (30°-60°)	19061.1	37.8	B5		
BH (60°-80°)	2180.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	96.4	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°	21773.3	21773.3	21773.3	21773.3	21773.3	21773.3	21773.3	21773.3	21773.3	21773.3
2.5°	21869.7	21728.8	21595.3	21550.8	21736.2	21936.5	21810.4	21817.8	21773.3	21854.9
5°	22032.9	21840.1	21751.1	21684.3	21714.0	21921.6	21743.6	21810.4	21736.2	21832.6
7.5°	21973.5	21840.1	21751.1	21625.0	21721.4	21966.1	21795.6	21803.0	21765.9	21854.9
10°	21936.5	21840.1	21728.8	21743.6	21854.9	22062.5	21929.0	22003.2	21951.3	22003.2
12.5°	22025.5	21921.6	21862.3	21862.3	21958.7	22196.0	22129.3	22196.0	22173.8	22218.3
15°	21187.4	21283.9	21847.5	22099.6	22292.4	22529.7	22500.1	22566.8	22581.7	22648.4
17.5°	17872.5	17776.1	17731.6	19029.4	22477.8	23212.0	23189.8	23182.3	23108.2	23056.3
20°	18310.0	18273.0	18221.1	18317.5	18703.1	23568.0	23716.3	22804.1	22537.2	22514.9
22.5°	19007.2	18947.8	18755.0	18762.4	18881.1	20490.3	22982.1	22151.5	22062.5	22010.6
25°	19348.3	19229.6	19073.9	19029.4	19066.5	18769.8	20527.4	21513.8	21076.2	20876.0
27.5°	18747.6	18755.0	18628.9	18747.6	18606.7	17271.8	16522.8	20267.9	20253.0	20164.0
30°	18295.2	18273.0	18124.7	18273.0	17301.5	15810.9	15492.0	18903.3	18747.6	18628.9
32.5°	16908.4	16923.3	17353.4	17931.8	16337.4	15158.3	14194.2	16886.2	18362.0	18295.2
35°	12095.5	12125.1	13652.8	16508.0	14876.5	13860.5	13786.3	14594.6	17753.9	17783.5
37.5°	11643.1	11643.1	11606.0	12073.2	13727.0	13333.9	13482.2	13400.7	16263.2	16337.4
40°	11316.8	11250.0	11198.1	10463.9	9544.4	12963.1	13067.0	12696.2	15373.3	15388.2
42.5°	10923.7	10849.6	10864.4	9507.3	8543.2	12043.5	11754.3	11257.5	13890.1	13905.0
45°	10204.4	10330.5	10419.4	8320.7	8246.6	8602.5	10842.2	10530.7	12889.0	13163.4
47.5°	5191.2	5302.4	8135.3	7653.3	7823.9	7645.9	9158.7	9166.1	10723.5	11635.7
50°	4709.1	4679.5	4686.9	4464.4	7223.2	6184.9	6622.5	8402.3	8587.7	9892.9
52.5°	4390.3	4382.8	3930.5	3492.9	4538.6	5443.3	4805.6	6081.1	6385.2	8380.1
55°	3248.2	3485.5	3099.9	3285.3	2840.3	4360.6	4338.3	5487.8	5591.6	6718.9
57.5°	29.7	37.1	89.0	2499.2	1965.2	2180.3	2996.1	3745.1	3930.5	5235.7
60°	7.4	14.8	37.1	74.2	1275.5	1342.3	2002.3	2165.5	2439.9	3122.1
62.5°	0.0	0.0	14.8	37.1	66.7	548.8	637.8	697.1	1075.3	1594.4
65°	0.0	0.0	7.4	22.2	37.1	89.0	155.7	326.3	467.2	578.4
67.5°	0.0	0.0	7.4	14.8	29.7	44.5	89.0	126.1	200.2	341.1
70°	0.0	0.0	7.4	14.8	22.2	37.1	59.3	89.0	118.7	170.6
72.5°	0.0	0.0	7.4	14.8	14.8	44.5	44.5	66.7	89.0	111.2
75°	0.0	0.0	7.4	7.4	14.8	29.7	44.5	51.9	59.3	89.0
77.5°	0.0	0.0	7.4	14.8	22.2	29.7	37.1	59.3	51.9	51.9
80°	0.0	0.0	7.4	22.2	22.2	37.1	44.5	59.3	37.1	37.1
82.5°	0.0	0.0	7.4	29.7	22.2	74.2	74.2	81.6	29.7	29.7
85°	0.0	0.0	22.2	14.8	44.5	74.2	66.7	44.5	37.1	22.2
87.5°	0.0	0.0	7.4	7.4	14.8	22.2	51.9	44.5	14.8	14.8
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°
21773.3	0°	21773.3	21773.3	21773.3	21773.3	21773.3	21773.3	21773.3	21773.3	21773.3
21639.8	2.5°	21936.5	21840.1	22040.3	22018.0	21921.6	21877.1	21825.2	21780.7	21454.4
21654.7	5°	21943.9	21795.6	22040.3	21995.8	21981.0	21906.8	21862.3	21929.0	21632.4
21714.0	7.5°	21943.9	21795.6	22062.5	22077.4	22055.1	21995.8	21988.4	22032.9	21788.1
21817.8	10°	22092.2	22032.9	22255.3	22277.6	22247.9	22233.1	22196.0	22166.4	21906.8
22173.8	12.5°	22403.7	22285.0	22537.2	22603.9	22581.7	22618.7	22529.7	22574.2	22307.3
22537.2	15°	22781.9	22789.3	22982.1	23130.4	23115.6	23234.3	23100.8	23219.4	23026.6
22952.5	17.5°	23360.3	23441.9	23716.3	23938.8	24020.4	24109.3	24020.4	24057.4	23783.0
22492.7	20°	22752.2	23056.3	24376.3	24784.2	24954.8	25036.3	24888.0	24932.5	24658.1
21929.0	22.5°	22203.4	22596.5	23768.2	25043.8	25570.3	25733.4	25681.5	25674.1	25570.3
20816.7	25°	21395.1	22188.6	22715.1	24064.8	25718.6	26015.3	26044.9	26037.5	25881.8
20134.4	27.5°	20401.4	20579.3	21943.9	22767.1	24680.4	25807.6	25763.1	25548.0	25340.4
18717.9	30°	19133.2	19941.6	20557.1	21869.7	23338.1	25169.8	25169.8	25006.7	24791.6
18213.6	32.5°	18488.0	19533.7	20104.7	20579.3	21832.6	24457.9	24754.5	24584.0	24413.4
17820.6	35°	18146.9	18302.6	19637.5	20067.6	21128.1	23085.9	24287.3	24116.8	23990.7
16774.9	37.5°	17397.9	17761.3	18384.2	19533.7	19860.0	21966.1	23664.4	23575.4	23427.1
15417.8	40°	15729.3	16700.8	17657.4	18747.6	19088.7	20527.4	22908.0	22945.0	22744.8
13971.7	42.5°	14743.0	15403.0	16901.0	17635.2	18554.8	19600.4	22173.8	22233.1	22092.2
13237.5	45°	13586.1	14320.3	15373.3	16708.2	17961.5	18324.9	20876.0	21498.9	21380.3
11776.6	47.5°	12525.6	13118.9	14409.2	15759.0	17145.7	17093.8	19385.4	20557.1	20393.9
10656.8	50°	11020.1	12058.4	12666.5	13905.0	15974.0	16114.9	17798.3	19452.1	19318.6
9054.9	52.5°	9292.2	10597.4	11761.7	12896.4	14787.5	15121.2	16322.6	18324.9	18235.9
6919.1	55°	8120.5	9069.7	10382.4	11294.5	13348.8	14238.7	15217.6	17249.6	17205.1
5688.1	57.5°	5777.0	7608.8	8691.5	9967.1	11049.8	12659.1	13385.8	15061.9	14646.6
3151.8	60°	3915.6	4775.9	6095.9	7467.9	8194.7	9803.9	10478.8	11821.1	11709.8
1883.7	62.5°	2069.1	2862.6	3804.4	4494.1	5020.6	6585.4	6867.2	8313.3	8276.2
756.4	65°	912.2	1208.8	2061.6	2417.6	2959.0	3685.7	3930.5	4449.6	4323.5
370.8	67.5°	474.6	719.3	1164.3	1431.3	1802.1	2076.5	2276.7	2439.9	2543.7
244.7	70°	289.2	526.5	719.3	993.7	1238.5	1460.9	1616.7	1839.2	1972.7
126.1	72.5°	215.1	333.7	496.9	763.8	897.3	1156.9	1312.6	1475.8	1594.4
103.8	75°	118.7	222.5	400.5	600.7	719.3	941.8	1082.7	1194.0	1231.1
59.3	77.5°	74.2	170.6	333.7	467.2	563.6	763.8	726.8	830.6	919.6
44.5	80°	51.9	126.1	259.6	385.6	393.0	489.5	578.4	667.4	726.8
29.7	82.5°	37.1	103.8	192.8	296.6	259.6	378.2	452.4	519.1	378.2
22.2	85°	29.7	74.2	96.4	178.0	148.3	267.0	229.9	222.5	148.3
14.8	87.5°	22.2	37.1	66.7	81.6	59.3	59.3	74.2	89.0	74.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21773.3
21231.9
21380.3
21506.3
21691.7
22070.0
22707.7
23545.7
24465.3
25236.6
25644.5
25177.2
24710.0
24272.5
23812.7
23278.8
22700.3
22077.4
21395.1
20512.6
19340.9
18295.2
17257.0
14602.1
11717.2
8283.6
4271.6
2543.7
1980.1
1616.7
1208.8
934.4
734.2
274.4
148.3
74.2
0.0

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