

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: P638812

Luminaire Tested: **EPH-VN-06-E-930-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638812
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-930-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26047.9 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

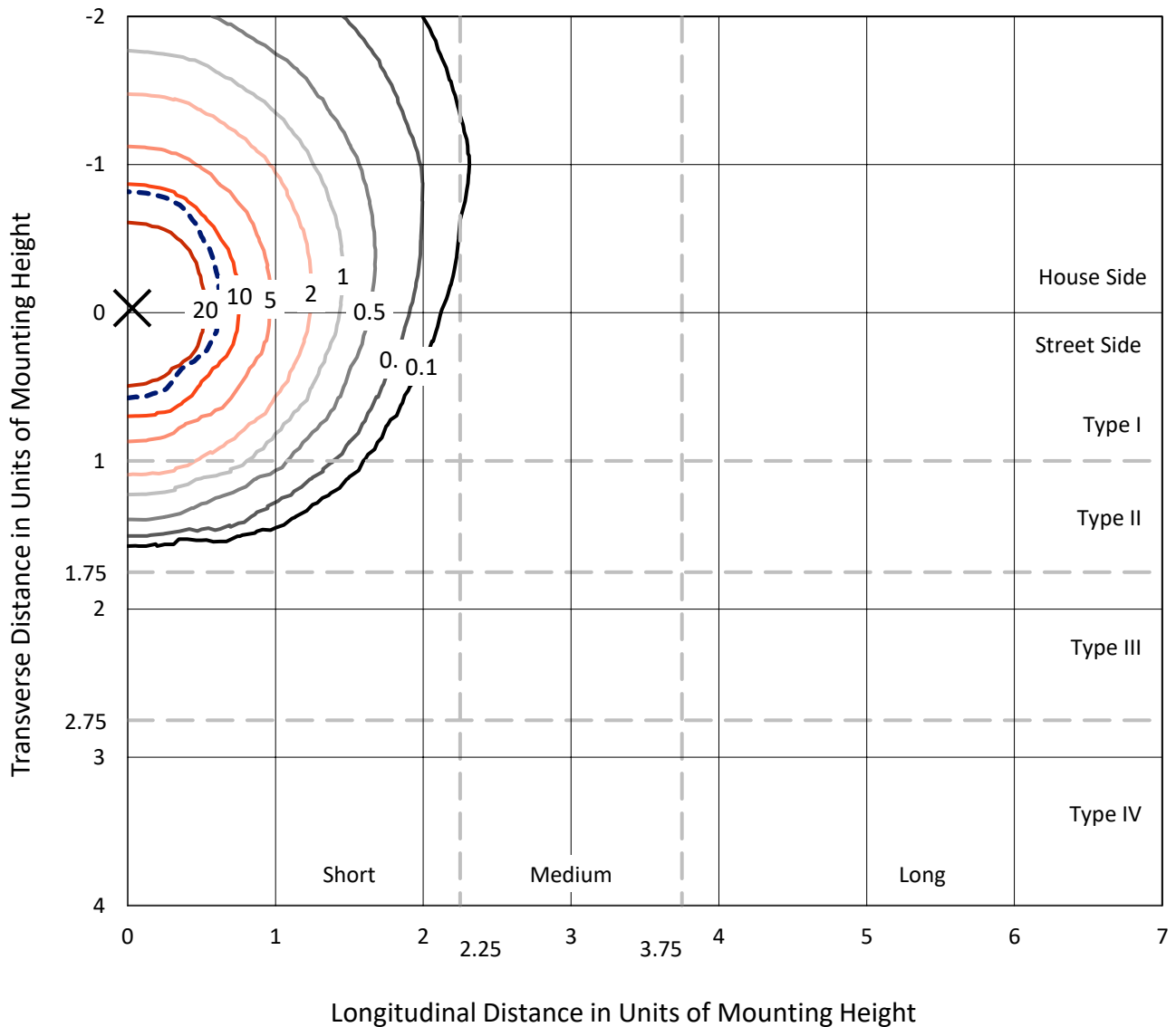
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

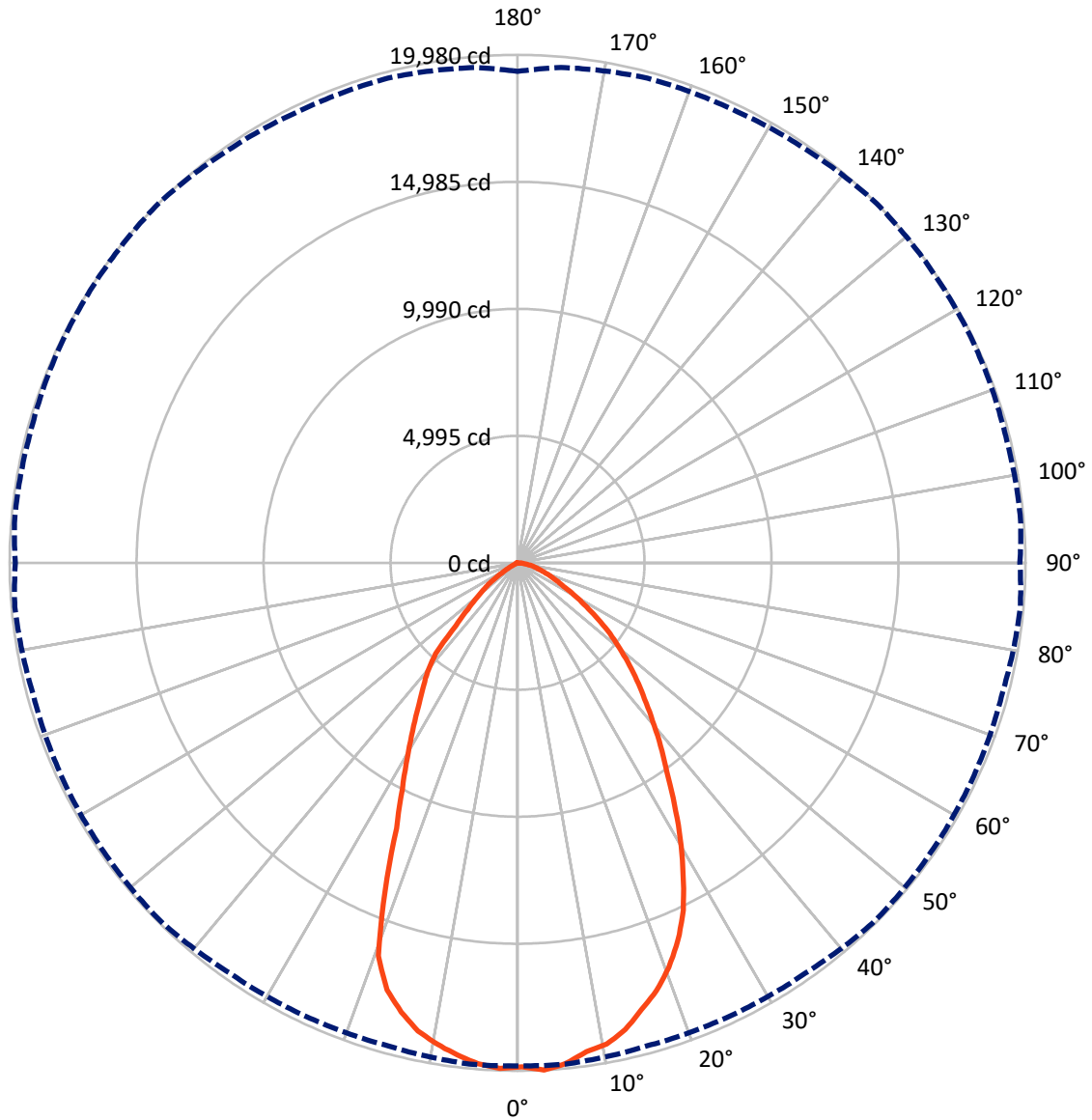
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.6 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
House Side	Lumens	15426.9	0.0	15426.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10621.0	0.0	10621.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	26047.9	0.0	26047.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1859.0	7.1
10°-20°	4985.1	19.1
20°-30°	6079.6	23.3
30°-40°	5550.6	21.3
40°-50°	4011.3	15.4
50°-60°	2190.2	8.4
60°-70°	905.6	3.5
70°-80°	366.8	1.4
80°-90°	99.8	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°	26047.9	100.0
0°-180°	26047.9	100.0

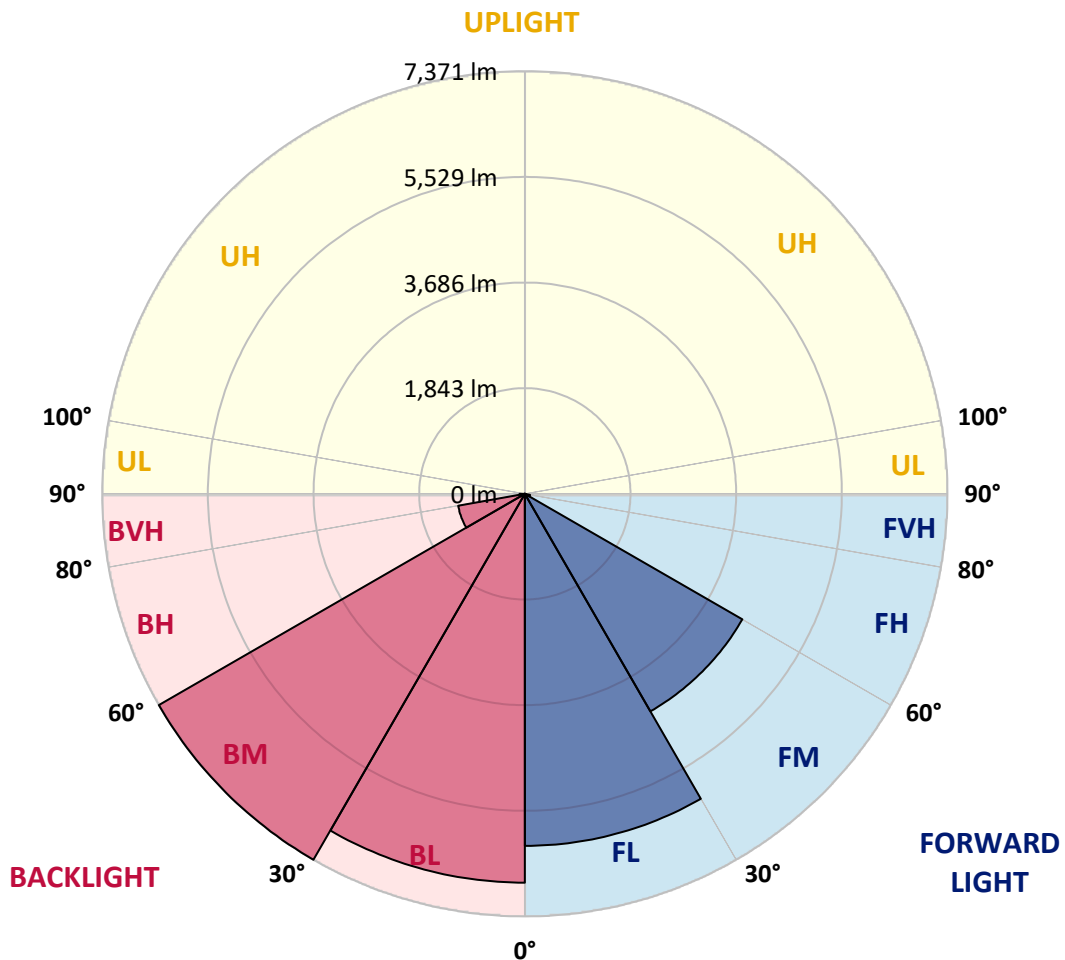


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6140.5	23.6			
FM (30°-60°)	4380.8	16.8			
FH (60°-80°)	91.8	0.4			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	6783.2	26.0	B5		
BM (30°-60°)	7371.3	28.3	B4/8500		
BH (60°-80°)	1180.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	91.8	0.4			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°	19822.4	19822.4	19822.4	19822.4	19822.4	19822.4	19822.4	19822.4	19822.4	19822.4
2.5°	19785.7	19811.4	19672.0	19686.6	19712.3	19899.4	19851.7	19807.7	19745.3	19851.7
5°	19760.0	19774.7	19628.0	19576.6	19598.6	19767.3	19613.3	19613.3	19598.6	19580.3
7.5°	19561.9	19569.3	19455.6	19363.9	19422.5	19499.6	19385.9	19440.9	19360.2	19422.5
10°	19264.8	19217.1	19081.4	19055.7	19121.8	19195.1	19118.1	19169.4	19096.1	19143.8
12.5°	18828.3	18754.9	18644.9	18611.9	18725.6	18824.6	18762.3	18732.9	18637.6	18754.9
15°	17144.7	17089.6	17339.1	17775.6	18168.1	18252.4	18186.4	18215.7	18017.7	18050.7
17.5°	14111.1	14008.4	14276.2	15310.6	16785.2	17562.8	17504.1	17313.4	17019.9	17086.0
20°	12823.6	12794.3	12765.0	13010.7	14041.5	16400.0	16480.7	15996.5	15578.4	15486.7
22.5°	12097.4	12086.4	12057.0	12112.0	12383.5	13898.4	14822.8	14375.2	14096.5	14070.8
25°	11433.4	11415.1	11327.1	11396.8	11396.8	11484.8	12669.6	12941.0	12695.3	12665.9
27.5°	10758.5	10725.5	10710.8	10743.8	10575.1	9980.9	10281.7	11605.8	11477.5	11484.8
30°	10028.6	10017.6	9977.2	10046.9	9526.0	8788.7	8598.0	10395.4	10421.0	10413.7
32.5°	8942.8	8990.5	9173.9	9250.9	8392.6	7783.7	7464.6	8994.2	9518.7	9507.7
35°	6496.2	6496.2	7094.1	8205.5	7354.5	6896.0	6723.6	7626.0	8627.3	8664.0
37.5°	5340.7	5359.1	5476.5	5982.7	6345.8	6184.4	6133.0	6419.2	7482.9	7541.6
40°	4805.2	4805.2	4805.2	4596.1	4585.1	5571.8	5542.5	5450.8	6463.2	6591.6
42.5°	4317.3	4328.3	4335.7	3807.5	3514.0	4816.2	4750.2	4610.8	5549.8	5700.2
45°	3814.8	3833.2	3855.2	3183.9	3055.5	3466.3	4020.2	3866.2	4647.5	4841.9
47.5°	2329.2	2358.6	2857.4	2699.7	2714.4	2674.0	3279.3	3253.6	3811.1	4086.3
50°	1573.6	1584.6	1632.3	1713.0	2329.2	2101.8	2321.9	2692.4	2894.1	3312.3
52.5°	1320.5	1338.9	1221.5	1111.4	1529.6	1643.3	1621.3	1999.1	2079.8	2597.0
55°	928.0	986.7	931.7	920.7	869.3	1276.5	1228.8	1536.9	1588.3	1973.4
57.5°	95.4	110.0	190.7	685.9	568.6	722.6	876.7	1126.1	1177.5	1456.2
60°	7.3	7.3	18.3	95.4	414.5	432.8	605.2	693.3	792.3	1016.1
62.5°	0.0	3.7	7.3	14.7	66.0	231.1	304.5	363.1	476.9	656.6
65°	0.0	0.0	3.7	11.0	14.7	88.0	117.4	190.7	260.4	407.2
67.5°	0.0	0.0	3.7	7.3	11.0	22.0	40.3	69.7	139.4	231.1
70°	0.0	0.0	3.7	7.3	11.0	18.3	29.3	44.0	62.4	124.7
72.5°	0.0	0.0	3.7	3.7	7.3	18.3	22.0	29.3	44.0	62.4
75°	0.0	0.0	3.7	3.7	11.0	22.0	18.3	22.0	29.3	40.3
77.5°	0.0	0.0	3.7	7.3	11.0	22.0	18.3	22.0	22.0	25.7
80°	0.0	0.0	3.7	7.3	14.7	25.7	22.0	22.0	18.3	18.3
82.5°	0.0	0.0	3.7	11.0	14.7	33.0	33.0	29.3	14.7	11.0
85°	0.0	0.0	7.3	14.7	22.0	36.7	36.7	29.3	11.0	7.3
87.5°	0.0	0.0	7.3	11.0	18.3	25.7	36.7	29.3	11.0	3.7
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°
19822.4	0°	19822.4	19822.4	19822.4	19822.4	19822.4	19822.4	19822.4	19822.4	19822.4
19760.0	2.5°	19859.0	19837.0	19910.4	19939.7	19980.1	19826.0	19730.7	19734.3	19558.3
19536.3	5°	19653.6	19657.3	19752.7	19745.3	19785.7	19701.3	19664.6	19602.3	19448.2
19253.8	7.5°	19393.2	19360.2	19451.9	19521.6	19418.9	19477.6	19393.2	19422.5	19330.8
19004.4	10°	19191.5	19114.4	19198.8	19246.5	19250.1	19191.5	19110.8	19033.7	19000.7
18615.6	12.5°	18743.9	18644.9	18788.0	18854.0	18843.0	18729.3	18637.6	18655.9	18549.5
17933.3	15°	18127.7	18131.4	18234.1	18296.4	18237.7	18212.1	18219.4	18175.4	18083.7
16990.6	17.5°	17185.0	17240.0	17511.5	17661.9	17694.9	17643.5	17617.8	17566.5	17474.8
15486.7	20°	15615.1	15945.2	16429.4	16895.2	16986.9	16972.3	16880.6	16858.5	16807.2
13997.4	22.5°	14235.9	14481.6	15042.8	15769.1	16143.3	16179.9	16069.9	16036.9	15981.9
12665.9	25°	12809.0	13073.1	13579.3	14367.9	15141.9	15299.6	15281.3	15182.2	15123.5
11484.8	27.5°	11605.8	11869.9	12328.5	13040.1	13869.1	14375.2	14422.9	14265.2	14261.5
10432.1	30°	10520.1	10883.2	11231.7	11811.3	12614.6	13373.9	13454.6	13344.5	13355.5
9467.3	32.5°	9669.1	9969.9	10267.0	10655.8	11323.4	12207.4	12522.9	12420.2	12379.8
8664.0	35°	8799.8	9005.2	9309.6	9665.4	10120.3	10996.9	11543.5	11466.5	11426.1
7578.3	37.5°	7809.4	8161.5	8381.6	8781.4	9137.2	9834.2	10604.5	10593.4	10509.1
6653.9	40°	6793.3	7163.8	7497.6	7901.1	8176.2	8730.1	9584.7	9581.1	9592.1
5696.5	42.5°	5872.6	6213.7	6617.2	7057.4	7321.5	7725.0	8642.0	8693.4	8755.7
4907.9	45°	5040.0	5348.1	5722.2	6257.8	6576.9	6808.0	7622.3	7857.1	7853.4
4203.6	47.5°	4291.7	4581.4	4896.9	5417.8	5824.9	6034.0	6708.9	7042.7	7020.7
3448.0	50°	3602.1	3858.8	4189.0	4566.8	5113.3	5296.7	5799.3	6239.4	6206.4
2747.4	52.5°	2897.8	3253.6	3532.4	3877.2	4453.1	4632.8	5021.6	5450.8	5425.1
2061.5	55°	2259.5	2604.3	2941.8	3238.9	3723.1	3990.9	4269.7	4709.8	4702.5
1614.0	57.5°	1709.3	2087.1	2406.3	2688.7	3073.9	3404.0	3627.7	4027.6	4078.9
1104.1	60°	1265.5	1555.3	1900.1	2215.5	2520.0	2861.1	3011.5	3404.0	3426.0
755.6	62.5°	862.0	1181.1	1518.6	1804.7	2032.1	2384.3	2520.0	2842.8	2883.1
484.2	65°	597.9	803.3	1188.5	1393.9	1672.6	1973.4	2109.2	2365.9	2446.6
278.8	67.5°	396.2	572.2	928.0	1115.1	1390.2	1595.6	1768.0	1977.1	2065.1
176.1	70°	216.4	421.8	663.9	880.3	1118.8	1316.8	1485.6	1654.3	1731.3
80.7	72.5°	146.7	282.4	462.2	696.9	902.4	1096.8	1247.2	1371.9	1375.5
47.7	75°	73.4	190.7	352.1	539.2	704.3	895.0	1030.7	1104.1	1016.1
29.3	77.5°	44.0	139.4	286.1	432.8	572.2	722.6	799.6	840.0	696.9
22.0	80°	25.7	99.0	223.8	344.8	396.2	531.9	605.2	616.2	465.8
14.7	82.5°	18.3	73.4	176.1	253.1	242.1	374.1	454.8	440.2	297.1
11.0	85°	11.0	51.4	110.0	157.7	146.7	245.8	264.1	271.4	172.4
7.3	87.5°	7.3	29.3	58.7	84.4	69.7	106.4	106.4	128.4	84.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19822.4
19330.8
19411.5
19176.8
18854.0
18457.8
17992.0
17434.4
16689.8
15967.2
15061.2
14254.2
13300.5
12383.5
11371.1
10578.8
9592.1
8722.7
7860.7
7028.1
6235.8
5480.1
4720.8
4056.9
3459.0
2890.5
2428.3
2054.1
1702.0
1342.5
950.0
671.3
436.5
275.1
157.7
73.4
0.0

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