

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: P638810

Luminaire Tested: **EPH-VN-03-E-930-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638810
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-930-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13278.4 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

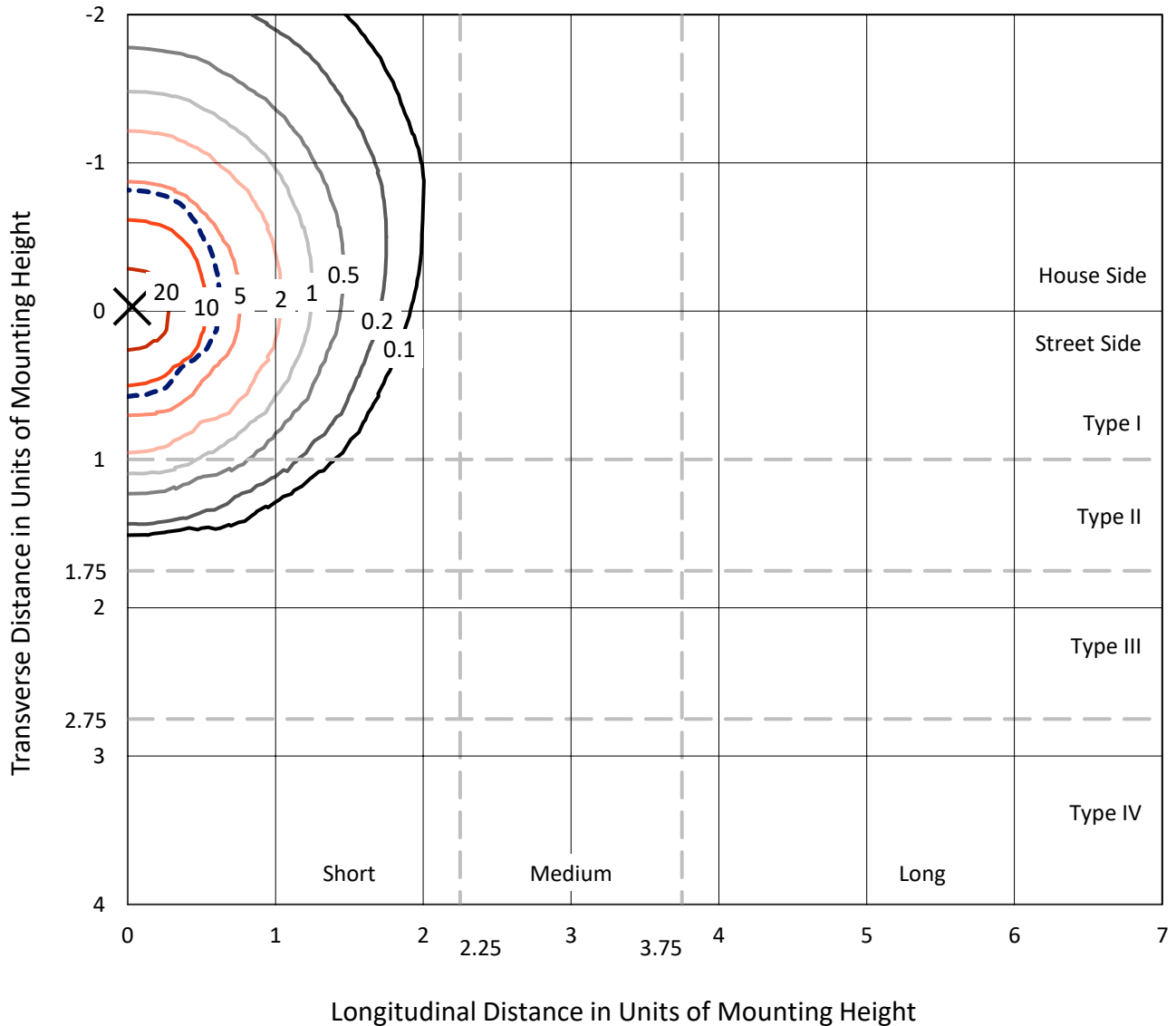
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

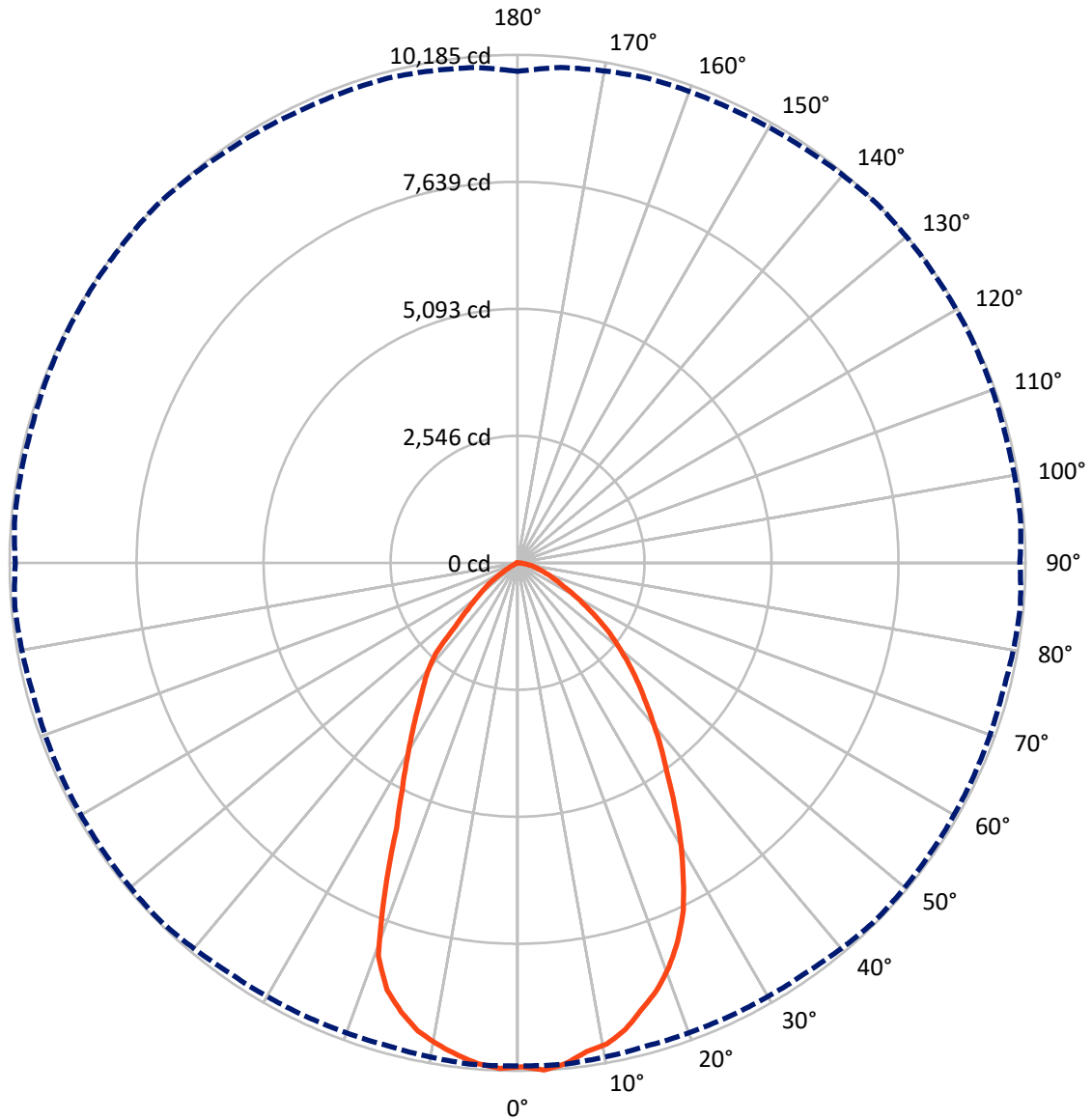
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.3 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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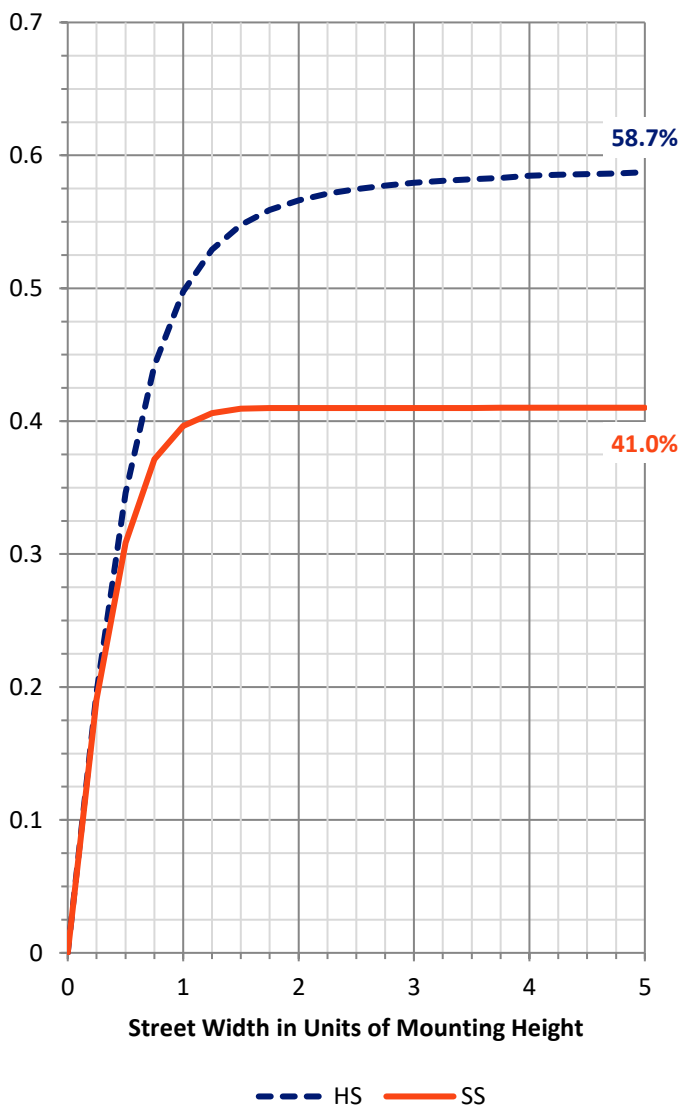
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7864.1	0.0	7864.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5414.2	0.0	5414.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	13278.4	0.0	13278.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.7	7.1
10°-20°	2541.2	19.1
20°-30°	3099.2	23.3
30°-40°	2829.5	21.3
40°-50°	2044.8	15.4
50°-60°	1116.5	8.4
60°-70°	461.6	3.5
70°-80°	187.0	1.4
80°-90°	50.9	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°	13278.4	100.0
0°-180°	13278.4	100.0

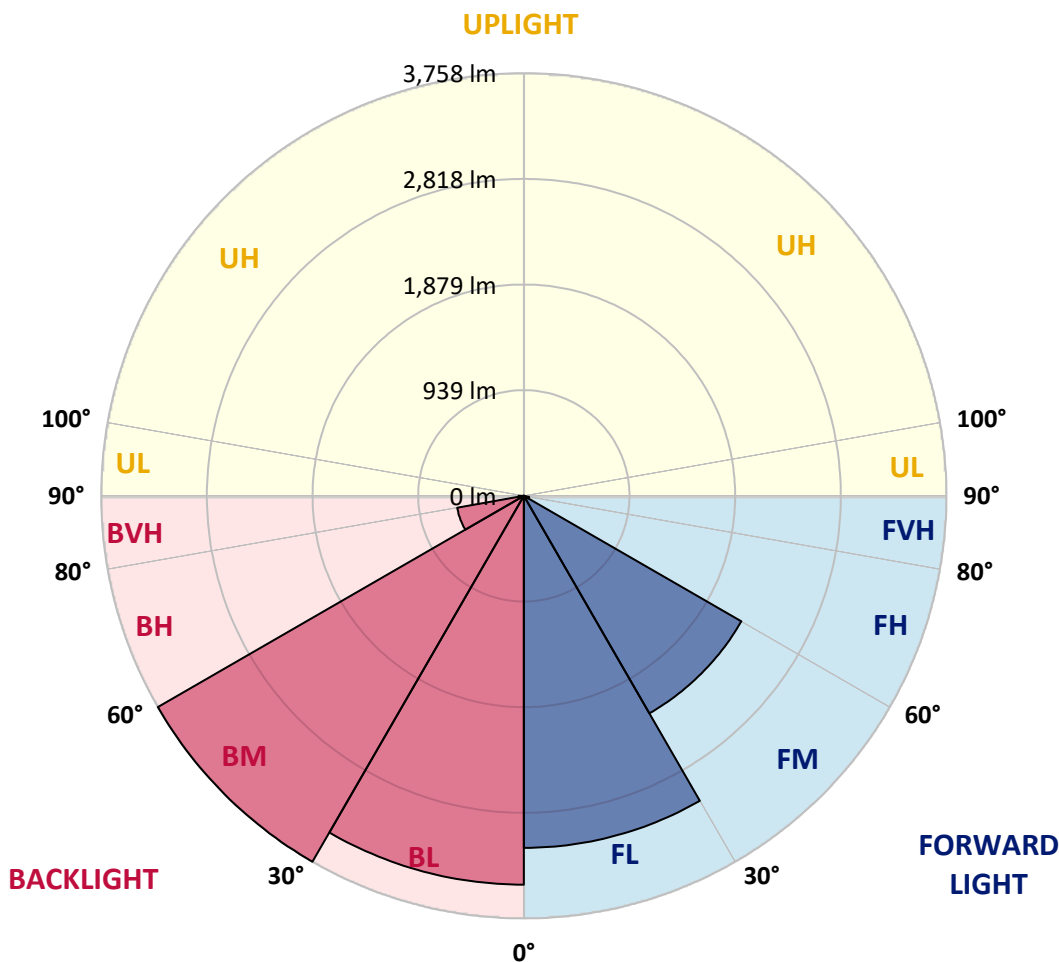


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3130.2	23.6			
FM (30°-60°)	2233.2	16.8			
FH (60°-80°)	46.8	0.4			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	3457.9	26.0	B4/5000		
BM (30°-60°)	3757.7	28.3	B3/5000		
BH (60°-80°)	601.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	46.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10104.8	10104.8	10104.8	10104.8	10104.8	10104.8	10104.8	10104.8	10104.8	10104.8
2.5°	10086.1	10099.2	10028.1	10035.6	10048.7	10144.1	10119.8	10097.3	10065.5	10119.8
5°	10073.0	10080.5	10005.7	9979.5	9990.7	10076.8	9998.2	9998.2	9990.7	9981.4
7.5°	9972.0	9975.8	9917.8	9871.1	9901.0	9940.3	9882.3	9910.3	9869.2	9901.0
10°	9820.6	9796.3	9727.1	9714.0	9747.7	9785.1	9745.8	9772.0	9734.6	9758.9
12.5°	9598.1	9560.7	9504.6	9487.7	9545.7	9596.2	9564.4	9549.5	9500.8	9560.7
15°	8739.8	8711.8	8838.9	9061.4	9261.5	9304.5	9270.8	9285.8	9184.8	9201.7
17.5°	7193.4	7141.1	7277.6	7804.9	8556.6	8953.0	8923.0	8825.8	8676.2	8709.9
20°	6537.1	6522.1	6507.2	6632.4	7157.9	8360.2	8401.4	8154.5	7941.4	7894.6
22.5°	6166.9	6161.2	6146.3	6174.3	6312.7	7085.0	7556.2	7328.0	7185.9	7172.8
25°	5828.4	5819.1	5774.2	5809.7	5809.7	5854.6	6458.6	6596.9	6471.6	6456.7
27.5°	5484.3	5467.5	5460.0	5476.9	5390.9	5087.9	5241.3	5916.3	5850.8	5854.6
30°	5112.2	5106.6	5086.1	5121.6	4856.1	4480.2	4383.0	5299.2	5312.3	5308.6
32.5°	4558.8	4583.1	4676.6	4715.8	4278.3	3967.9	3805.2	4584.9	4852.3	4846.7
35°	3311.6	3311.6	3616.3	4182.9	3749.1	3515.4	3427.5	3887.5	4397.9	4416.6
37.5°	2722.5	2731.9	2791.7	3049.8	3234.9	3152.6	3126.4	3272.3	3814.5	3844.5
40°	2449.5	2449.5	2449.5	2343.0	2337.3	2840.3	2825.4	2778.6	3294.7	3360.2
42.5°	2200.8	2206.5	2210.2	1940.9	1791.3	2455.1	2421.5	2350.4	2829.1	2905.8
45°	1944.7	1954.0	1965.2	1623.1	1557.6	1767.0	2049.4	1970.8	2369.1	2468.2
47.5°	1187.4	1202.3	1456.6	1376.2	1383.7	1363.1	1671.7	1658.6	1942.8	2083.0
50°	802.2	807.8	832.1	873.2	1187.4	1071.4	1183.6	1372.5	1475.3	1688.5
52.5°	673.2	682.5	622.7	566.6	779.7	837.7	826.5	1019.1	1060.2	1323.9
55°	473.1	503.0	474.9	469.3	443.2	650.7	626.4	783.5	809.7	1006.0
57.5°	48.6	56.1	97.2	349.7	289.8	368.4	446.9	574.1	600.2	742.3
60°	3.7	3.7	9.3	48.6	211.3	220.6	308.5	353.4	403.9	518.0
62.5°	0.0	1.9	3.7	7.5	33.7	117.8	155.2	185.1	243.1	334.7
65°	0.0	0.0	1.9	5.6	7.5	44.9	59.8	97.2	132.8	207.6
67.5°	0.0	0.0	1.9	3.7	5.6	11.2	20.6	35.5	71.1	117.8
70°	0.0	0.0	1.9	3.7	5.6	9.3	15.0	22.4	31.8	63.6
72.5°	0.0	0.0	1.9	1.9	3.7	9.3	11.2	15.0	22.4	31.8
75°	0.0	0.0	1.9	1.9	5.6	11.2	9.3	11.2	15.0	20.6
77.5°	0.0	0.0	1.9	3.7	5.6	11.2	9.3	11.2	11.2	13.1
80°	0.0	0.0	1.9	3.7	7.5	13.1	11.2	11.2	9.3	9.3
82.5°	0.0	0.0	1.9	5.6	7.5	16.8	16.8	15.0	7.5	5.6
85°	0.0	0.0	3.7	7.5	11.2	18.7	18.7	15.0	5.6	3.7
87.5°	0.0	0.0	3.7	5.6	9.3	13.1	18.7	15.0	5.6	1.9
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°
10104.8	0°	10104.8	10104.8	10104.8	10104.8	10104.8	10104.8	10104.8	10104.8	10104.8
10073.0	2.5°	10123.5	10112.3	10149.7	10164.6	10185.2	10106.7	10058.1	10059.9	9970.2
9959.0	5°	10018.8	10020.7	10069.3	10065.5	10086.1	10043.1	10024.4	9992.6	9914.1
9815.0	7.5°	9886.0	9869.2	9916.0	9951.5	9899.1	9929.0	9886.0	9901.0	9854.2
9687.8	10°	9783.2	9743.9	9786.9	9811.2	9813.1	9783.2	9742.1	9702.8	9686.0
9489.6	12.5°	9555.1	9504.6	9577.5	9611.2	9605.6	9547.6	9500.8	9510.2	9456.0
9141.8	15°	9240.9	9242.8	9295.2	9326.9	9297.0	9283.9	9287.7	9265.2	9218.5
8661.3	17.5°	8760.4	8788.4	8926.8	9003.5	9020.3	8994.1	8981.0	8954.8	8908.1
7894.6	20°	7960.1	8128.4	8375.2	8612.6	8659.4	8651.9	8605.2	8593.9	8567.8
7135.4	22.5°	7257.0	7382.3	7668.4	8038.6	8229.3	8248.0	8191.9	8175.1	8147.0
6456.7	25°	6529.6	6664.2	6922.3	7324.3	7718.8	7799.3	7789.9	7739.4	7709.5
5854.6	27.5°	5916.3	6050.9	6284.7	6647.4	7070.0	7328.0	7352.4	7271.9	7270.1
5317.9	30°	5362.8	5547.9	5725.6	6021.0	6430.5	6817.6	6858.7	6802.6	6808.2
4826.1	32.5°	4929.0	5082.3	5233.8	5432.0	5772.3	6222.9	6383.8	6331.4	6310.8
4416.6	35°	4485.8	4590.5	4745.7	4927.1	5159.0	5605.9	5884.5	5845.2	5824.7
3863.2	37.5°	3981.0	4160.5	4272.7	4476.5	4657.9	5013.1	5405.8	5400.2	5357.2
3392.0	40°	3463.0	3651.9	3822.0	4027.7	4168.0	4450.3	4886.0	4884.1	4889.7
2903.9	42.5°	2993.7	3167.6	3373.3	3597.6	3732.3	3938.0	4405.4	4431.6	4463.4
2501.9	45°	2569.2	2726.3	2917.0	3190.0	3352.7	3470.5	3885.6	4005.3	4003.4
2142.9	47.5°	2187.8	2335.5	2496.3	2761.8	2969.4	3075.9	3420.0	3590.2	3578.9
1757.7	50°	1836.2	1967.1	2135.4	2328.0	2606.6	2700.1	2956.3	3180.7	3163.8
1400.5	52.5°	1477.2	1658.6	1800.7	1976.5	2270.0	2361.7	2559.9	2778.6	2765.5
1050.9	55°	1151.8	1327.6	1499.6	1651.1	1897.9	2034.4	2176.5	2400.9	2397.2
822.7	57.5°	871.4	1064.0	1226.6	1370.6	1567.0	1735.2	1849.3	2053.1	2079.3
562.8	60°	645.1	792.8	968.6	1129.4	1284.6	1458.5	1535.2	1735.2	1746.5
385.2	62.5°	439.4	602.1	774.1	920.0	1035.9	1215.4	1284.6	1449.2	1469.7
246.8	65°	304.8	409.5	605.8	710.6	852.7	1006.0	1075.2	1206.1	1247.2
142.1	67.5°	201.9	291.7	473.1	568.4	708.7	813.4	901.3	1007.9	1052.7
89.8	70°	110.3	215.0	338.4	448.8	570.3	671.3	757.3	843.3	882.6
41.1	72.5°	74.8	144.0	235.6	355.3	460.0	559.1	635.8	699.3	701.2
24.3	75°	37.4	97.2	179.5	274.9	359.0	456.2	525.4	562.8	518.0
15.0	77.5°	22.4	71.1	145.9	220.6	291.7	368.4	407.6	428.2	355.3
11.2	80°	13.1	50.5	114.1	175.8	201.9	271.1	308.5	314.1	237.5
7.5	82.5°	9.3	37.4	89.8	129.0	123.4	190.7	231.9	224.4	151.5
5.6	85°	5.6	26.2	56.1	80.4	74.8	125.3	134.6	138.4	87.9
3.7	87.5°	3.7	15.0	29.9	43.0	35.5	54.2	54.2	65.4	43.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10104.8
9854.2
9895.4
9775.7
9611.2
9409.2
9171.7
8887.5
8507.9
8139.6
7677.7
7266.3
6780.2
6312.7
5796.6
5392.7
4889.7
4446.6
4007.1
3582.7
3178.8
2793.6
2406.5
2068.1
1763.3
1473.5
1237.9
1047.1
867.6
684.4
484.3
342.2
222.5
140.2
80.4
37.4
0.0

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