

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: P638817

Luminaire Tested: **EPH-VN-04-E-935-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638817
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-935-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17862.9 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

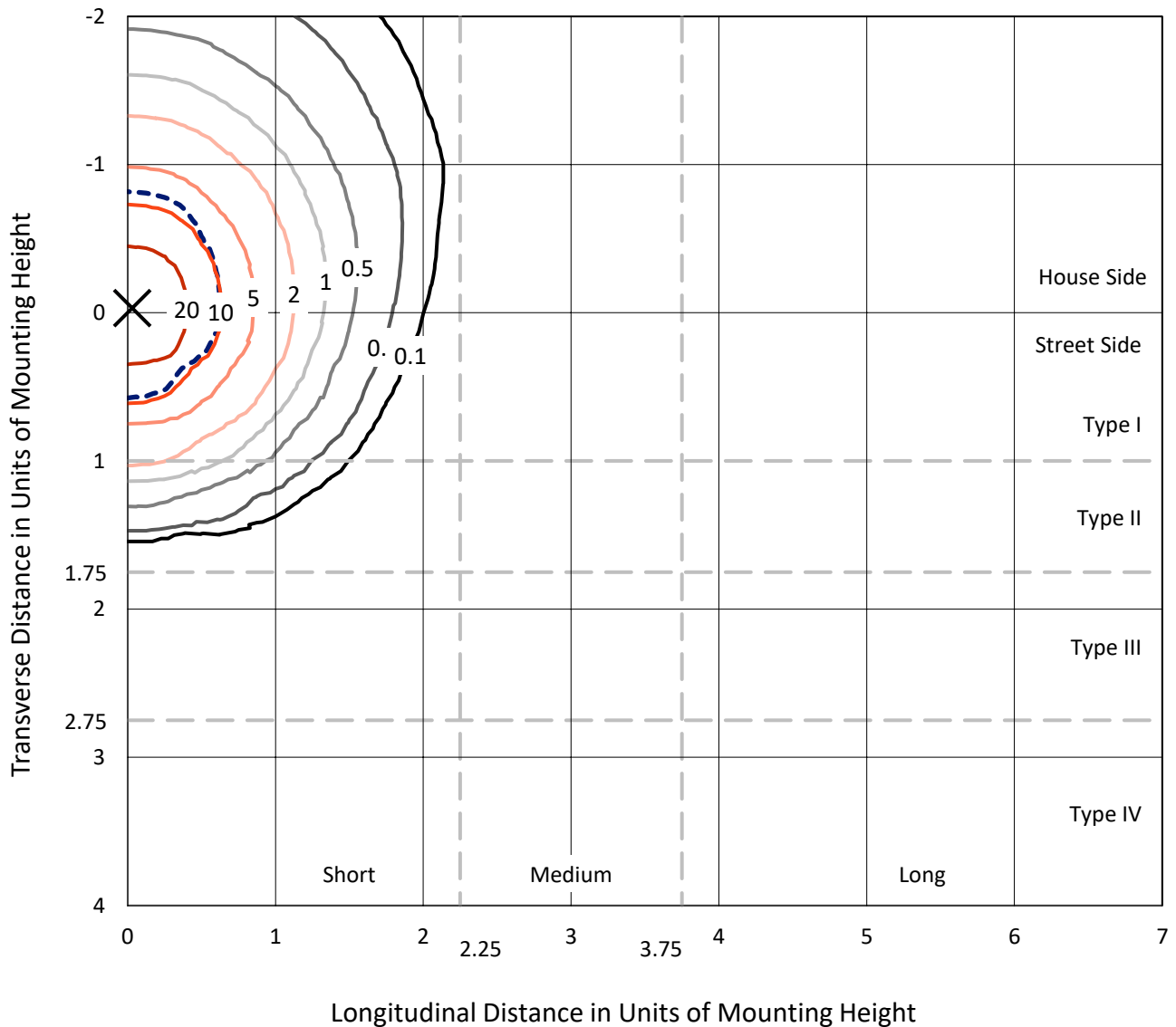
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

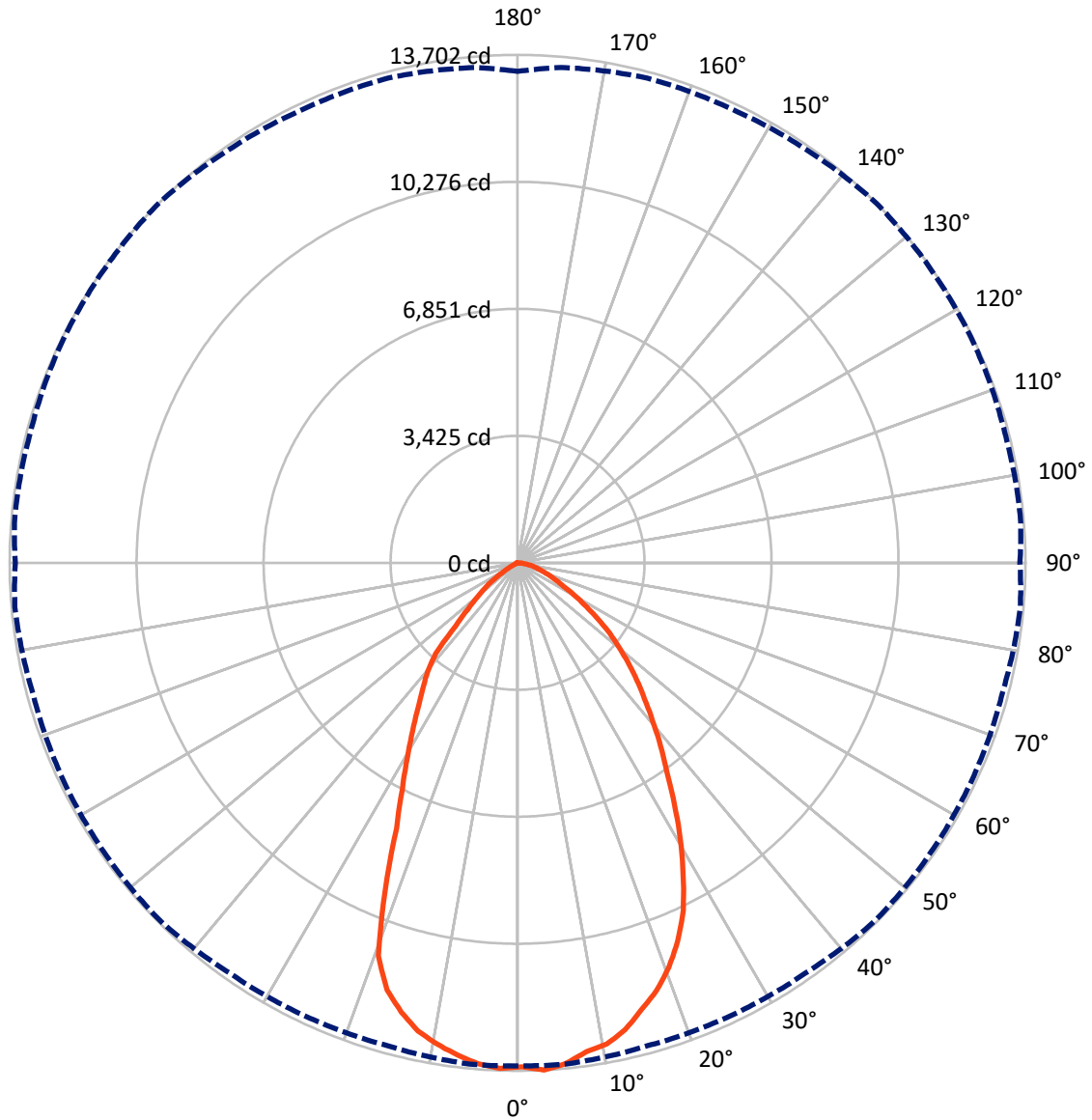
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34 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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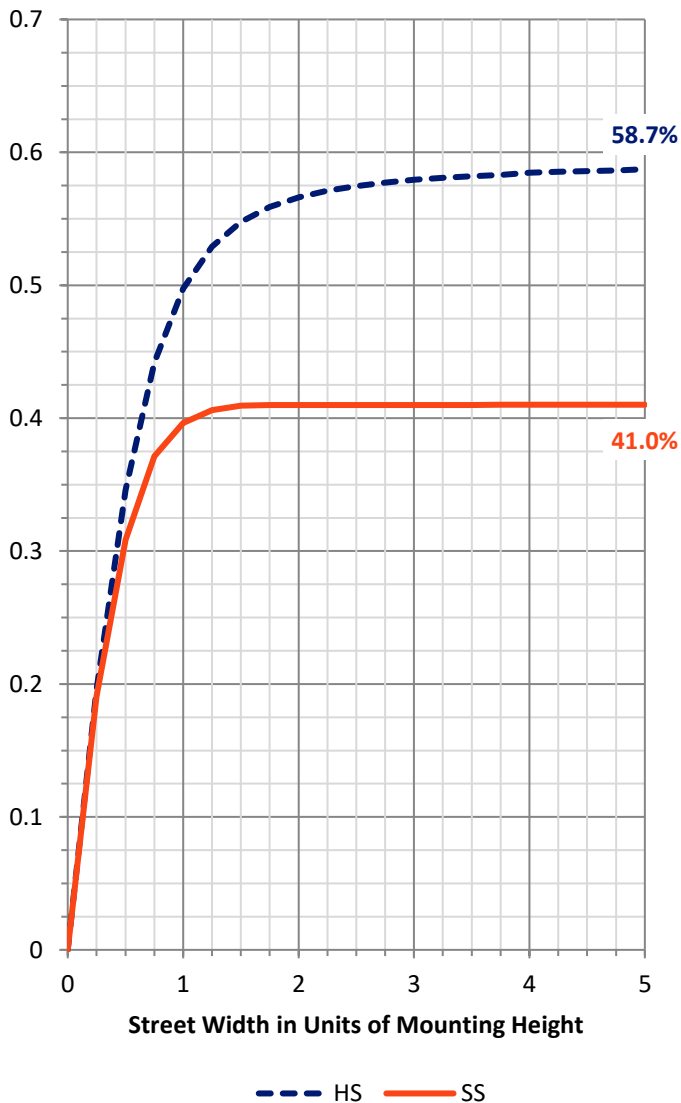
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10579.3	0.0	10579.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7283.6	0.0	7283.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	17862.9	0.0	17862.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1274.9	7.1
10°-20°	3418.6	19.1
20°-30°	4169.2	23.3
30°-40°	3806.4	21.3
40°-50°	2750.8	15.4
50°-60°	1502.0	8.4
60°-70°	621.0	3.5
70°-80°	251.5	1.4
80°-90°	68.4	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°	17862.9	100.0
0°-180°	17862.9	100.0

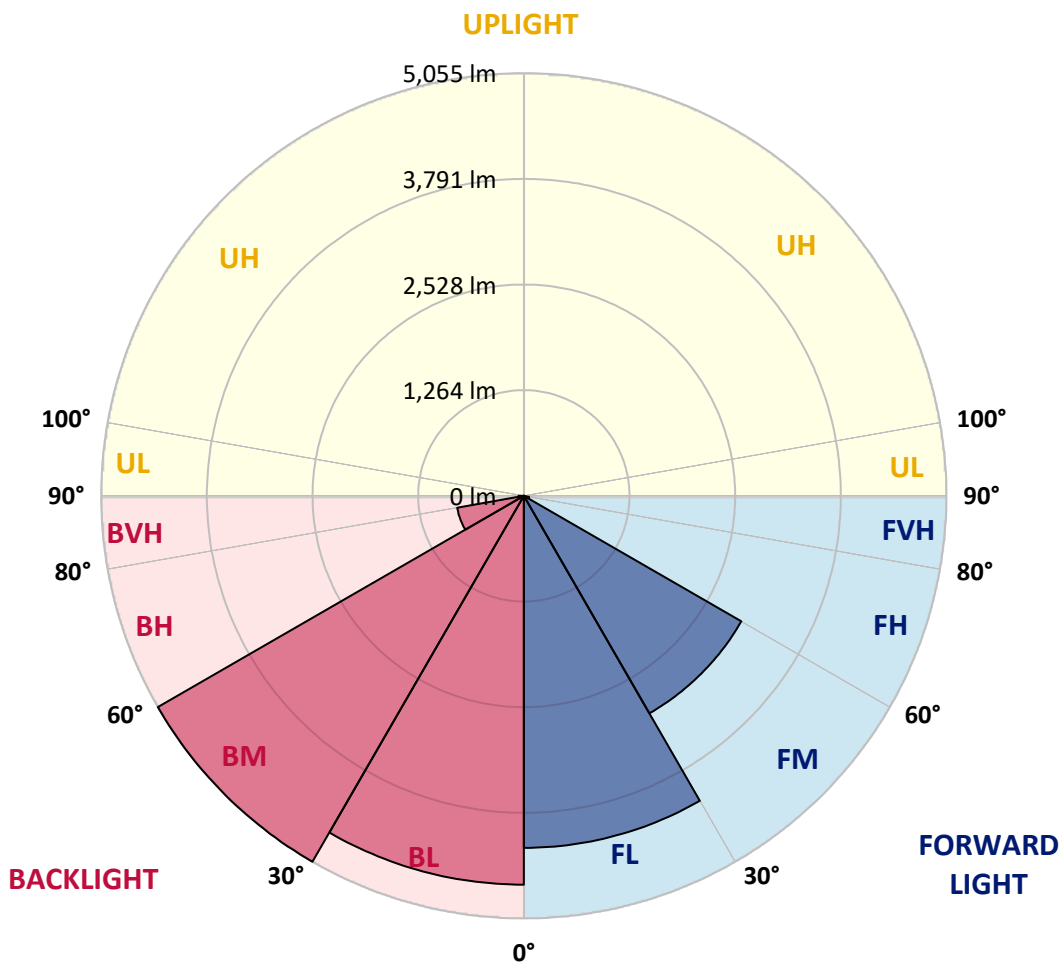


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4210.9	23.6			
FM (30°-60°)	3004.2	16.8			
FH (60°-80°)	62.9	0.4			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	4651.8	26.0	B4/5000		
BM (30°-60°)	5055.1	28.3	B4/8500		
BH (60°-80°)	809.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	62.9	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°	13593.6	13593.6	13593.6	13593.6	13593.6	13593.6	13593.6	13593.6	13593.6	13593.6
2.5°	13568.5	13586.1	13490.5	13500.5	13518.2	13646.4	13613.7	13583.6	13540.8	13613.7
5°	13550.9	13560.9	13460.3	13425.1	13440.2	13555.9	13450.2	13450.2	13440.2	13427.6
7.5°	13415.0	13420.0	13342.1	13279.2	13319.4	13372.3	13294.3	13332.0	13276.7	13319.4
10°	13211.3	13178.6	13085.5	13067.9	13113.2	13163.5	13110.6	13145.9	13095.6	13128.3
12.5°	12911.9	12861.6	12786.1	12763.5	12841.5	12909.4	12866.6	12846.5	12781.1	12861.6
15°	11757.3	11719.6	11890.6	12190.0	12459.1	12517.0	12471.7	12491.8	12356.0	12378.6
17.5°	9677.0	9606.6	9790.2	10499.6	11510.8	12044.1	12003.8	11873.0	11671.8	11717.1
20°	8794.1	8774.0	8753.8	8922.4	9629.2	11246.7	11302.0	10970.0	10683.2	10620.3
22.5°	8296.0	8288.5	8268.4	8306.1	8492.2	9531.1	10165.0	9858.1	9667.0	9649.4
25°	7840.7	7828.2	7767.8	7815.6	7815.6	7875.9	8688.4	8874.6	8706.1	8685.9
27.5°	7377.9	7355.2	7345.2	7367.8	7252.1	6844.6	7050.9	7959.0	7870.9	7875.9
30°	6877.3	6869.8	6842.1	6889.9	6532.7	6027.1	5896.3	7128.9	7146.5	7141.4
32.5°	6132.7	6165.4	6291.2	6344.0	5755.4	5337.8	5119.0	6167.9	6527.7	6520.1
35°	4454.9	4454.9	4864.9	5627.1	5043.5	4729.1	4610.9	5229.7	5916.4	5941.5
37.5°	3662.5	3675.1	3755.6	4102.7	4351.8	4241.1	4205.9	4402.1	5131.6	5171.8
40°	3295.3	3295.3	3295.3	3151.9	3144.3	3821.0	3800.9	3738.0	4432.3	4520.3
42.5°	2960.7	2968.3	2973.3	2611.1	2409.8	3302.8	3257.5	3161.9	3805.9	3909.0
45°	2616.1	2628.7	2643.8	2183.4	2095.4	2377.1	2757.0	2651.3	3187.1	3320.4
47.5°	1597.3	1617.4	1959.6	1851.4	1861.4	1833.8	2248.8	2231.2	2613.6	2802.2
50°	1079.1	1086.7	1119.4	1174.7	1597.3	1441.4	1592.3	1846.4	1984.7	2271.5
52.5°	905.6	918.1	837.7	762.2	1049.0	1126.9	1111.8	1370.9	1426.3	1781.0
55°	636.4	676.7	638.9	631.4	596.2	875.4	842.7	1054.0	1089.2	1353.3
57.5°	65.4	75.5	130.8	470.4	389.9	495.5	601.2	772.3	807.5	998.6
60°	5.0	5.0	12.6	65.4	284.2	296.8	415.1	475.4	543.3	696.8
62.5°	0.0	2.5	5.0	10.1	45.3	158.5	208.8	249.0	327.0	450.3
65°	0.0	0.0	2.5	7.5	10.1	60.4	80.5	130.8	178.6	279.2
67.5°	0.0	0.0	2.5	5.0	7.5	15.1	27.7	47.8	95.6	158.5
70°	0.0	0.0	2.5	5.0	7.5	12.6	20.1	30.2	42.8	85.5
72.5°	0.0	0.0	2.5	2.5	5.0	12.6	15.1	20.1	30.2	42.8
75°	0.0	0.0	2.5	2.5	7.5	15.1	12.6	15.1	20.1	27.7
77.5°	0.0	0.0	2.5	5.0	7.5	15.1	12.6	15.1	15.1	17.6
80°	0.0	0.0	2.5	5.0	10.1	17.6	15.1	15.1	12.6	12.6
82.5°	0.0	0.0	2.5	7.5	10.1	22.6	22.6	20.1	10.1	7.5
85°	0.0	0.0	5.0	10.1	15.1	25.2	25.2	20.1	7.5	5.0
87.5°	0.0	0.0	5.0	7.5	12.6	17.6	25.2	20.1	7.5	2.5
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°
13593.6	0°	13593.6	13593.6	13593.6	13593.6	13593.6	13593.6	13593.6	13593.6	13593.6
13550.9	2.5°	13618.8	13603.7	13654.0	13674.1	13701.8	13596.1	13530.7	13533.2	13412.5
13397.4	5°	13477.9	13480.4	13545.8	13540.8	13568.5	13510.6	13485.5	13442.7	13337.0
13203.7	7.5°	13299.3	13276.7	13339.6	13387.3	13316.9	13357.2	13299.3	13319.4	13256.5
13032.7	10°	13161.0	13108.1	13166.0	13198.7	13201.2	13161.0	13105.6	13052.8	13030.1
12766.0	12.5°	12854.1	12786.1	12884.3	12929.5	12922.0	12844.0	12781.1	12793.7	12720.7
12298.1	15°	12431.5	12434.0	12504.4	12547.2	12506.9	12489.3	12494.4	12464.2	12401.3
11651.7	17.5°	11785.0	11822.7	12008.9	12112.0	12134.6	12099.4	12081.8	12046.6	11983.7
10620.3	20°	10708.4	10934.8	11266.8	11586.3	11649.2	11639.1	11576.2	11561.1	11525.9
9599.0	22.5°	9762.6	9931.1	10316.0	10814.0	11070.6	11095.8	11020.3	10997.6	10959.9
8685.9	25°	8784.0	8965.1	9312.3	9853.1	10383.9	10492.0	10479.5	10411.5	10371.3
7875.9	27.5°	7959.0	8140.1	8454.5	8942.5	9511.0	9858.1	9890.8	9782.7	9780.2
7154.0	30°	7214.4	7463.4	7702.4	8099.8	8650.7	9171.4	9226.8	9151.3	9158.8
6492.4	32.5°	6630.8	6837.1	7040.8	7307.4	7765.3	8371.5	8587.8	8517.4	8489.7
5941.5	35°	6034.6	6175.5	6384.3	6628.3	6940.2	7541.4	7916.2	7863.4	7835.7
5197.0	37.5°	5355.4	5596.9	5747.9	6022.0	6266.0	6744.0	7272.2	7264.7	7206.8
4563.1	40°	4658.7	4912.7	5141.6	5418.3	5607.0	5986.8	6572.9	6570.4	6578.0
3906.5	42.5°	4027.3	4261.2	4537.9	4839.8	5020.9	5297.6	5926.5	5961.7	6004.4
3365.7	45°	3456.3	3667.6	3924.1	4291.4	4510.2	4668.7	5227.2	5388.1	5385.6
2882.7	47.5°	2943.1	3141.8	3358.2	3715.4	3994.6	4138.0	4600.8	4829.7	4814.6
2364.5	50°	2470.2	2646.3	2872.7	3131.8	3506.6	3632.3	3977.0	4278.8	4256.2
1884.1	52.5°	1987.2	2231.2	2422.4	2658.9	3053.8	3177.0	3443.7	3738.0	3720.4
1413.7	55°	1549.5	1786.0	2017.4	2221.2	2553.2	2736.8	2928.0	3229.9	3224.8
1106.8	57.5°	1172.2	1431.3	1650.2	1843.8	2108.0	2334.4	2487.8	2762.0	2797.2
757.2	60°	867.8	1066.6	1303.0	1519.3	1728.1	1962.1	2065.2	2334.4	2349.5
518.2	62.5°	591.1	810.0	1041.4	1237.6	1393.6	1635.1	1728.1	1949.5	1977.2
332.0	65°	410.0	550.9	815.0	955.9	1147.1	1353.3	1446.4	1622.5	1677.8
191.2	67.5°	271.7	392.4	636.4	764.7	953.4	1094.2	1212.5	1355.8	1416.2
120.7	70°	148.4	289.3	455.3	603.7	767.2	903.1	1018.8	1134.5	1187.3
55.3	72.5°	100.6	193.7	316.9	477.9	618.8	752.1	855.3	940.8	943.3
32.7	75°	50.3	130.8	241.5	369.8	483.0	613.8	706.8	757.2	696.8
20.1	77.5°	30.2	95.6	196.2	296.8	392.4	495.5	548.4	576.0	477.9
15.1	80°	17.6	67.9	153.4	236.5	271.7	364.7	415.1	422.6	319.5
10.1	82.5°	12.6	50.3	120.7	173.6	166.0	256.6	311.9	301.9	203.8
7.5	85°	7.5	35.2	75.5	108.2	100.6	168.5	181.1	186.1	118.2
5.0	87.5°	5.0	20.1	40.2	57.9	47.8	72.9	72.9	88.0	57.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13593.6
13256.5
13311.9
13150.9
12929.5
12657.9
12338.4
11956.0
11445.4
10949.9
10328.5
9775.1
9121.1
8492.2
7798.0
7254.6
6578.0
5981.8
5390.7
4819.6
4276.3
3758.1
3237.4
2782.1
2372.1
1982.2
1665.2
1408.7
1167.2
920.7
651.5
460.3
299.3
188.7
108.2
50.3
0.0

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