

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: P638772

Luminaire Tested: **EPH-VN-08-D-940-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638772
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-940-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33967.3 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 488.3
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



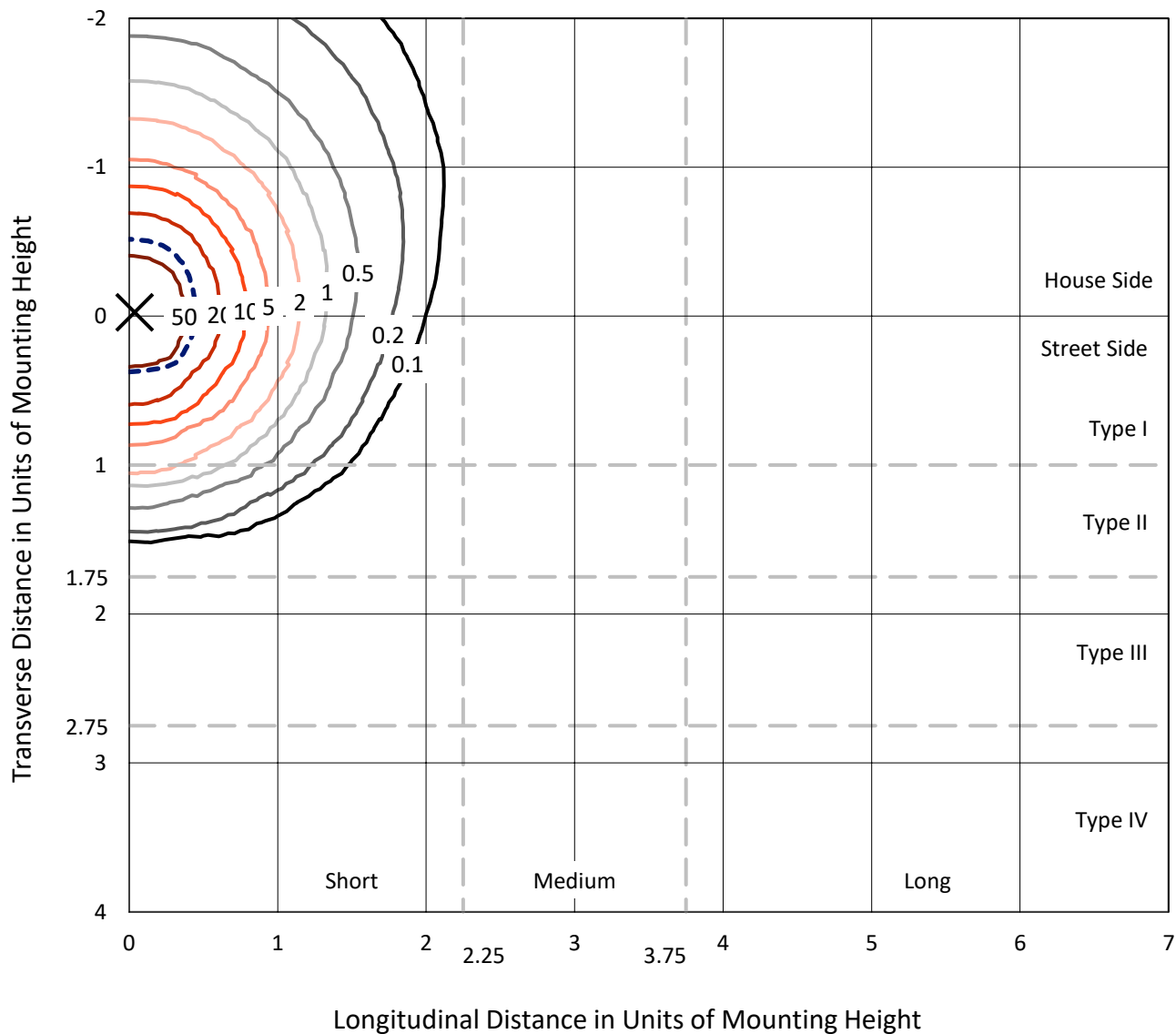
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

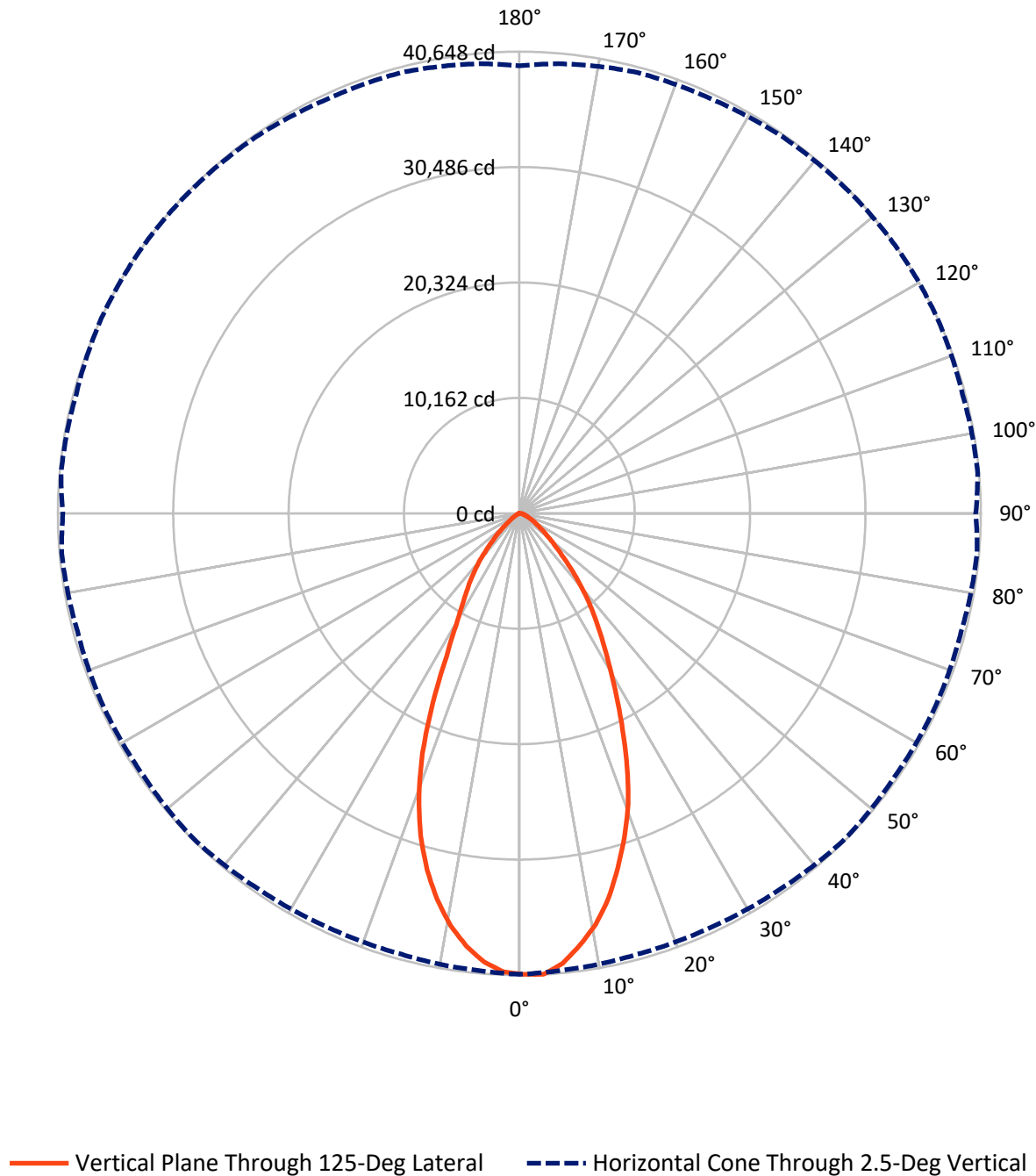


Based on 20 foot mounting height. Maximum calculated value = 101.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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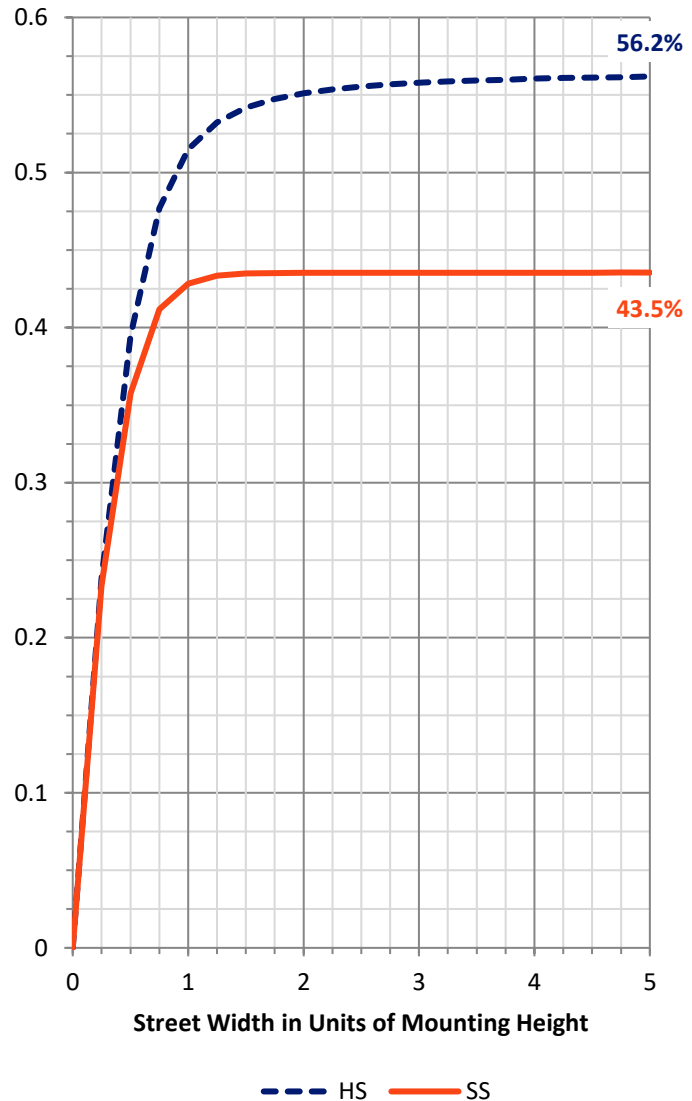
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19274.4	0.0	19274.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	14692.9	0.0	14692.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	33967.3	0.0	33967.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3685.1	10.8
10°-20°	8784.4	25.9
20°-30°	8946.7	26.3
30°-40°	6671.5	19.6
40°-50°	3485.4	10.3
50°-60°	1466.0	4.3
60°-70°	598.7	1.8
70°-80°	252.0	0.7
80°-90°	77.6	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°	33967.3	100.0
0°-180°	33967.3	100.0

Coefficient of Utilization



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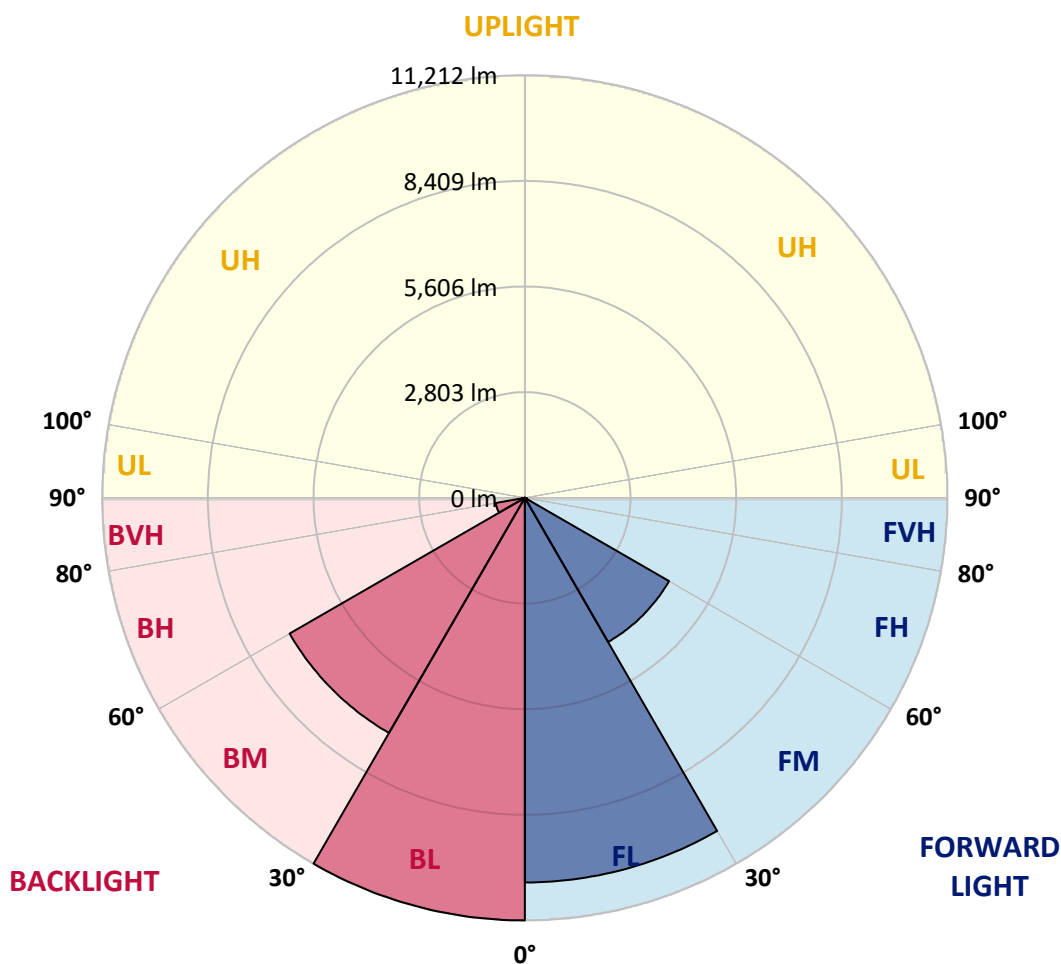
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10204.2	30.0			
FM	(30°-60°)	4417.6	13.0			
FH	(60°-80°)	63.9	0.2			G0/660
FVH	(80°-90°)	7.2	0.0			G0/10
BL	(0°-30°)	11211.9	33.0	B5		
BM	(30°-60°)	7205.3	21.2	B4/8500		
BH	(60°-80°)	786.7	2.3	B2/1000		G2/1000
BVH	(80°-90°)	70.4	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	40582.7	40582.7	40582.7	40582.7	40582.7	40582.7	40582.7	40582.7	40582.7	40582.7
2.5°	40587.1	40421.3	40185.7	40163.9	40286.0	40552.2	40382.0	40390.8	40286.0	40464.9
5°	39950.1	39793.0	39631.5	39417.7	39596.6	39710.1	39622.8	39526.8	39391.6	39566.1
7.5°	38745.8	38658.5	38418.6	38322.6	38431.6	38558.2	38370.6	38344.4	38156.8	38383.7
10°	36904.5	36869.6	36634.0	36577.3	36673.3	36865.2	36782.3	36764.9	36647.1	36625.3
12.5°	34993.4	34858.1	34565.8	34548.3	34692.3	34980.3	34757.8	34544.0	34609.4	34666.1
15°	30071.6	29927.6	30651.9	31790.8	32388.5	32366.7	32432.2	32174.7	32096.2	32122.4
17.5°	23906.3	23662.0	23923.8	25686.5	28527.0	30176.3	29722.6	29168.4	28871.7	28675.4
20°	20633.9	20647.0	20599.0	21052.8	22824.2	26585.4	26476.3	25407.3	25019.0	24857.5
22.5°	18644.2	18570.1	18465.3	18609.3	19084.9	21292.7	22771.9	21790.2	21654.9	21476.0
25°	16693.9	16693.9	16567.3	16711.3	16846.6	16877.1	18360.6	18762.0	18500.2	18500.2
27.5°	15005.3	14918.0	14861.3	14926.7	14747.8	13888.3	14075.9	16131.0	15952.1	15843.0
30°	13329.8	13303.6	13207.6	13294.9	12631.7	11663.0	11270.3	13613.4	13801.0	13761.7
32.5°	11004.2	11108.9	11536.5	11671.7	10537.3	9756.3	9381.0	11300.9	12051.3	12020.8
35°	7478.6	7565.9	8054.6	9669.0	8735.3	8176.8	8067.7	8988.3	10223.1	10340.9
37.5°	5955.9	5942.8	6082.4	6370.4	7020.5	6885.2	6854.7	7094.7	8338.2	8390.6
40°	4908.7	4891.2	4886.9	4651.2	4489.8	5724.6	5641.7	5497.7	6575.4	6680.2
42.5°	3957.5	3974.9	3988.0	3473.2	3237.5	4415.6	4367.6	4219.3	5157.4	5279.6
45°	3106.6	3102.3	3128.5	2587.4	2522.0	2823.0	3263.7	3145.9	3892.0	4022.9
47.5°	1610.0	1666.8	2020.2	2002.7	2033.3	2002.7	2469.6	2439.1	2927.8	3137.2
50°	1082.1	1099.5	1130.1	1134.4	1601.3	1474.8	1675.5	1898.0	2050.7	2373.6
52.5°	837.7	850.8	772.3	724.3	981.7	1090.8	1099.5	1313.3	1431.2	1758.4
55°	466.9	523.6	562.9	567.2	541.0	807.2	802.8	973.0	1064.6	1282.8
57.5°	61.1	74.2	113.4	366.5	362.2	449.4	562.9	706.8	759.2	938.1
60°	4.4	8.7	13.1	56.7	240.0	261.8	384.0	440.7	528.0	658.9
62.5°	0.0	0.0	4.4	13.1	48.0	152.7	200.7	231.3	309.8	432.0
65°	0.0	0.0	4.4	8.7	17.5	56.7	78.5	126.5	183.3	266.2
67.5°	0.0	0.0	4.4	8.7	13.1	21.8	34.9	56.7	96.0	161.4
70°	0.0	0.0	4.4	8.7	13.1	17.5	26.2	34.9	52.4	87.3
72.5°	0.0	0.0	4.4	4.4	8.7	21.8	21.8	26.2	34.9	48.0
75°	0.0	0.0	4.4	8.7	13.1	21.8	21.8	21.8	26.2	30.5
77.5°	0.0	0.0	4.4	8.7	13.1	21.8	17.5	21.8	21.8	21.8
80°	0.0	0.0	4.4	8.7	13.1	21.8	26.2	21.8	17.5	17.5
82.5°	0.0	0.0	4.4	13.1	13.1	30.5	30.5	30.5	13.1	13.1
85°	0.0	0.0	8.7	13.1	21.8	34.9	34.9	26.2	13.1	8.7
87.5°	0.0	0.0	4.4	8.7	8.7	17.5	26.2	21.8	8.7	4.4
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°
40582.7	0°	40582.7	40582.7	40582.7	40582.7	40582.7	40582.7	40582.7	40582.7	40582.7
40203.1	2.5°	40526.0	40416.9	40622.0	40648.2	40560.9	40451.8	40198.8	40177.0	39736.3
39313.0	5°	39758.1	39579.2	39710.1	39797.4	39766.8	39649.0	39544.3	39448.3	39051.2
37868.8	7.5°	38326.9	38261.5	38322.6	38388.0	38514.6	38388.0	38344.4	38244.0	37851.3
36446.4	10°	36738.7	36616.5	36847.8	36817.2	36782.3	36747.4	36564.2	36581.6	36119.1
34509.1	12.5°	34788.3	34583.2	34805.8	34832.0	34805.8	34683.6	34478.5	34565.8	34142.6
31891.1	15°	32166.0	32144.2	32305.6	32410.3	32484.5	32353.6	32283.8	32327.4	32074.4
28522.7	17.5°	28945.9	29229.5	29757.5	29936.4	29940.7	30076.0	30036.7	29984.4	29796.7
24792.1	20°	25158.6	25704.0	26515.6	27349.0	27588.9	27475.5	27423.1	27519.1	27239.9
21288.4	22.5°	21663.6	22130.5	23073.0	24290.3	24992.8	25062.6	25049.5	24966.6	24857.5
18482.8	25°	18696.6	19111.1	20014.3	21126.9	22475.2	22675.9	22684.6	22658.4	22562.4
15939.0	27.5°	16192.1	16693.9	17191.3	18186.1	19621.6	20450.6	20345.9	20315.4	20280.5
13792.3	30°	13923.2	14555.9	15022.7	15642.3	16929.5	18050.8	18159.9	18107.6	18024.7
12016.4	32.5°	12125.5	12500.8	13094.2	13513.0	14438.0	15707.8	16126.6	16087.4	16013.2
10415.1	35°	10563.5	10711.8	11178.7	11645.6	12260.8	13491.2	14110.8	14023.5	14010.4
8486.6	37.5°	8700.4	9197.8	9455.2	9926.4	10358.4	11313.9	12169.1	12129.9	12134.2
6824.1	40°	7024.9	7312.8	7823.3	8220.4	8617.5	9315.6	10266.8	10292.9	10284.2
5283.9	42.5°	5393.0	5672.2	6208.9	6640.9	6994.3	7426.3	8333.8	8364.4	8403.7
4114.6	45°	4210.6	4389.4	4782.1	5231.6	5606.8	5868.6	6558.0	6754.3	6758.7
3189.5	47.5°	3268.1	3473.2	3752.4	4184.4	4550.9	4738.5	5240.3	5506.4	5493.4
2447.8	50°	2565.6	2753.2	2980.1	3320.4	3717.5	3865.9	4236.7	4498.5	4485.4
1845.7	52.5°	1963.5	2203.4	2404.2	2666.0	3054.3	3180.8	3447.0	3748.0	3704.4
1352.6	55°	1487.9	1732.2	1919.8	2138.0	2491.4	2652.9	2836.1	3076.1	3084.8
1047.2	57.5°	1121.4	1374.4	1544.6	1767.1	2033.3	2212.2	2351.8	2609.2	2604.9
715.6	60°	802.8	1021.0	1226.1	1457.3	1662.4	1867.5	1963.5	2207.8	2216.5
506.1	62.5°	580.3	785.4	981.7	1182.4	1365.7	1566.4	1653.7	1845.7	1871.8
331.6	65°	405.8	549.8	776.7	929.4	1134.4	1282.8	1396.2	1562.0	1592.6
196.3	67.5°	261.8	397.1	615.2	750.5	938.1	1064.6	1182.4	1313.3	1352.6
126.5	70°	157.1	301.1	458.1	602.1	772.3	885.7	999.2	1112.6	1134.4
61.1	72.5°	100.4	209.4	331.6	488.7	619.6	741.8	842.1	925.0	859.6
39.3	75°	56.7	144.0	261.8	384.0	501.8	619.6	702.5	746.1	597.8
26.2	77.5°	34.9	104.7	213.8	309.8	388.3	497.4	549.8	576.0	427.6
17.5	80°	21.8	78.5	178.9	253.1	253.1	366.5	427.6	449.4	309.8
13.1	82.5°	17.5	56.7	139.6	192.0	170.2	274.9	336.0	340.3	218.2
8.7	85°	13.1	43.6	87.3	126.5	117.8	192.0	196.3	218.2	144.0
8.7	87.5°	8.7	26.2	52.4	74.2	65.4	91.6	104.7	117.8	78.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
40582.7
39391.6
38732.7
37768.4
35962.0
34020.4
31768.9
29517.5
27039.2
24648.1
22239.6
20075.4
17919.9
15816.8
13866.5
11994.6
10131.5
8272.8
6645.3
5445.4
4485.4
3708.8
3084.8
2596.1
2194.7
1863.1
1583.9
1348.2
1117.0
798.5
567.2
401.4
288.0
200.7
130.9
69.8
0.0

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