

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: P638701

Luminaire Tested: **EPH-VN-08-E-760-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638701
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-760-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65785.4 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

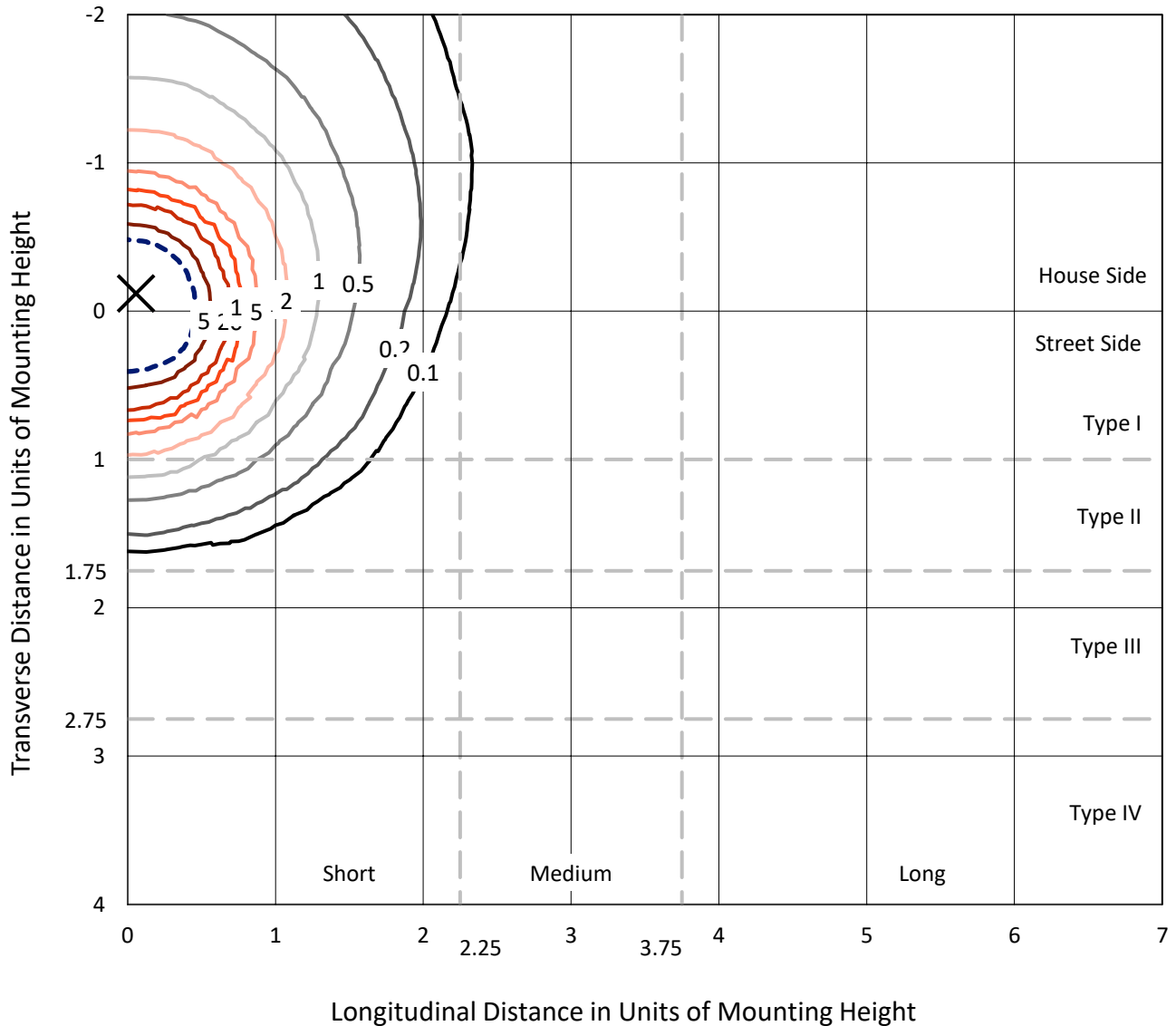
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

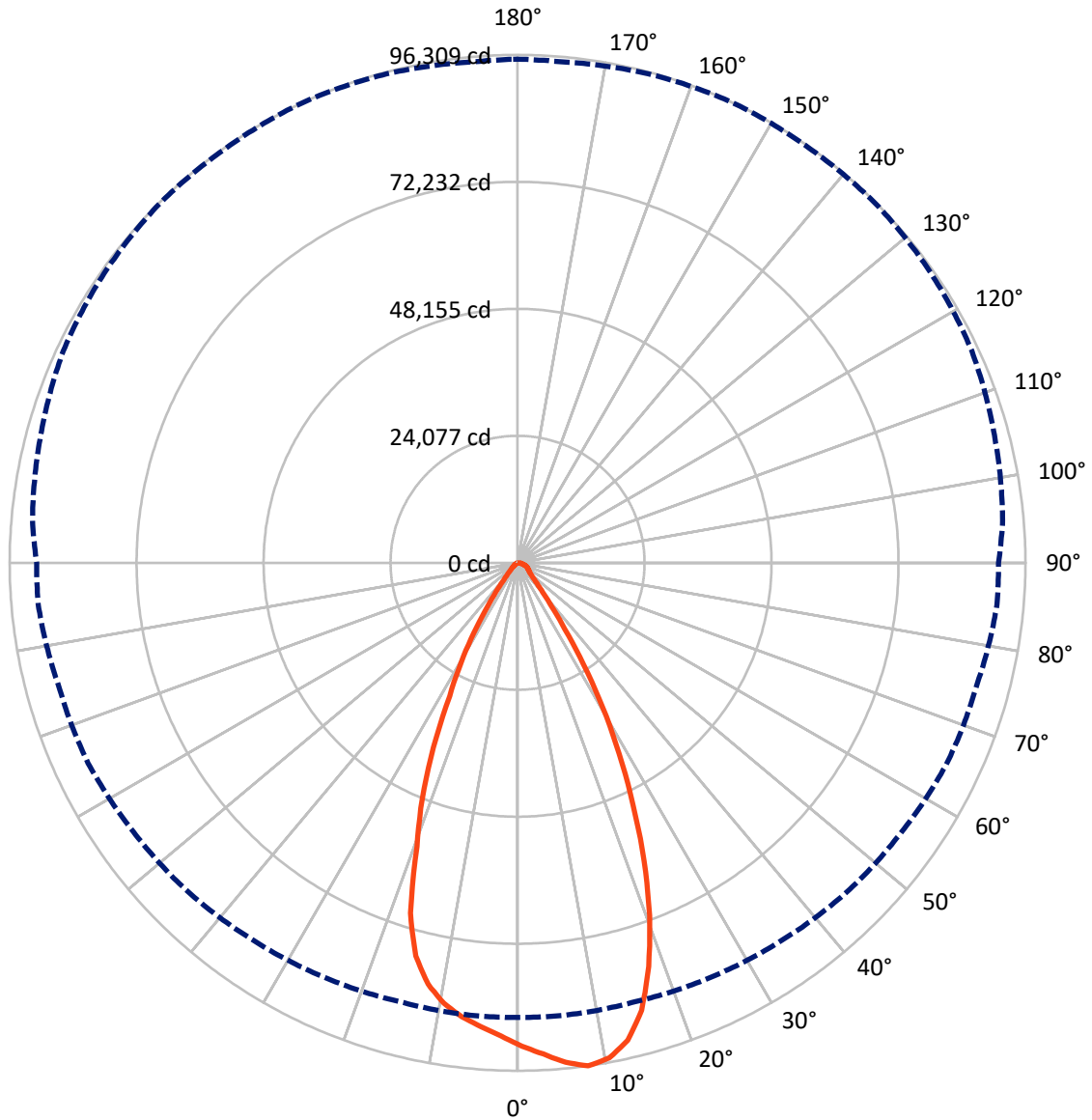
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 232.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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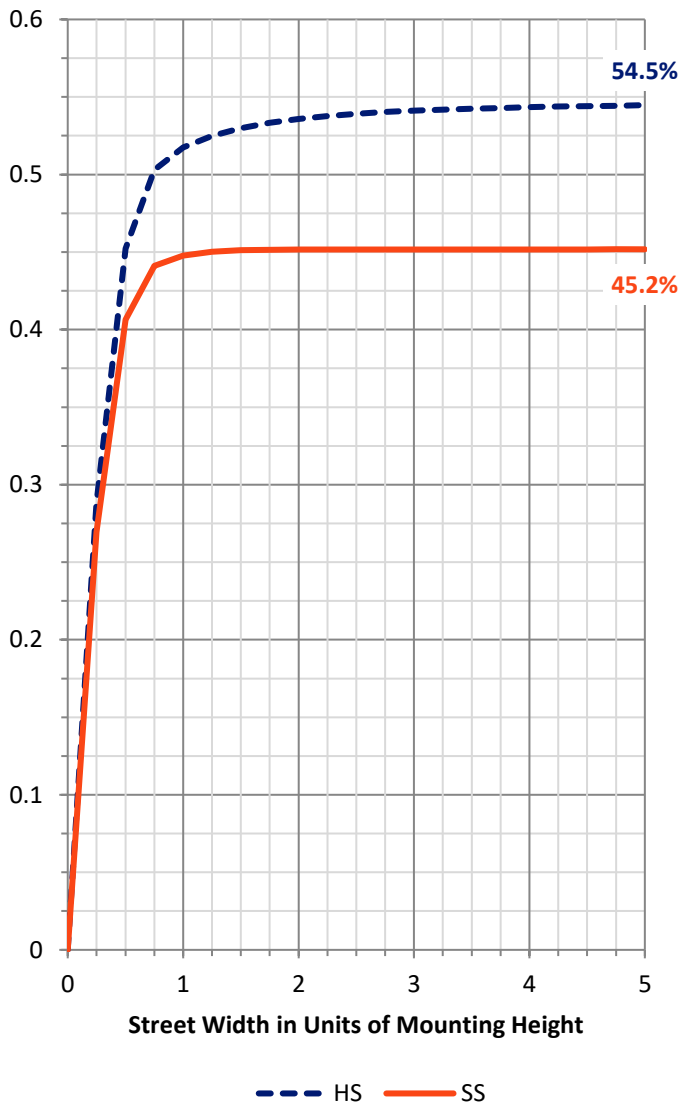
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36315.9	0.0	36315.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	29469.4	0.0	29469.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	65785.4	0.0	65785.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8738.9	13.3
10°-20°	22659.9	34.4
20°-30°	20762.8	31.6
30°-40°	8388.2	12.8
40°-50°	2460.7	3.7
50°-60°	1375.8	2.1
60°-70°	835.7	1.3
70°-80°	424.6	0.6
80°-90°	138.9	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°	65785.4	100.0
0°-180°	65785.4	100.0

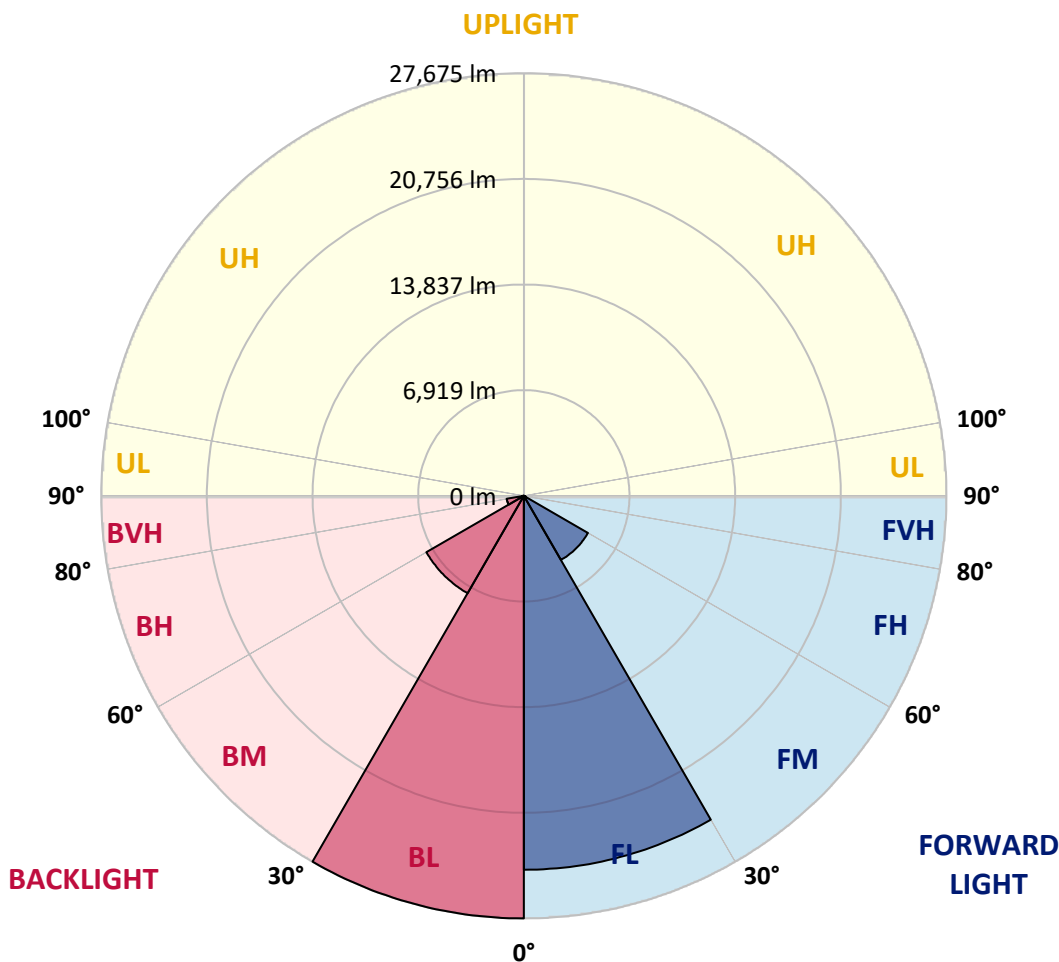


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	24487.0	37.2			
FM (30°-60°)	4852.9	7.4			
FH (60°-80°)	117.5	0.2			G0/660
FVH (80°-90°)	12.0	0.0			G1/100
BL (0°-30°)	27674.6	42.1	B5		
BM (30°-60°)	7371.8	11.2	B4/8500		
BH (60°-80°)	1142.7	1.7	B3/2500		G3/2500
BVH (80°-90°)	126.8	0.2			G2/225
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°	91644.1	91644.1	91644.1	91644.1	91644.1	91644.1	91644.1	91644.1	91644.1	91644.1
2.5°	89656.6	89960.1	89353.2	89755.2	90066.3	90809.7	90870.4	91128.3	91219.3	91894.4
5°	87957.4	88192.6	87699.5	88238.1	88678.1	89338.0	89846.3	90559.3	90953.8	91750.3
7.5°	86189.9	86243.0	86144.4	86713.3	87373.3	88283.6	88913.2	89846.3	90089.0	91226.9
10°	84050.7	83663.8	83853.5	84687.9	85674.1	87069.9	87502.3	88435.3	88867.7	90028.3
12.5°	80637.1	80834.3	80599.2	81661.2	82480.5	84065.9	84521.0	85461.7	86288.5	87312.6
15°	75827.7	75713.9	76191.8	77018.7	77906.2	79165.5	79901.3	80925.4	81555.0	82617.0
17.5°	65017.9	65404.8	67377.1	69448.0	71268.6	72740.3	73620.2	74469.8	74925.0	76078.0
20°	56150.1	55664.6	55930.1	57098.4	62279.5	64532.4	65457.9	65662.7	65852.4	66762.7
22.5°	46235.5	46076.2	46963.7	48276.1	49505.0	54701.2	55960.5	55482.6	55877.0	56734.2
25°	34333.4	35137.4	35926.4	38444.9	40037.9	42586.7	44976.2	45188.6	45332.8	45871.4
27.5°	27946.1	27665.4	27650.3	28355.7	30707.3	32831.4	34864.4	35334.7	35251.2	35767.1
30°	21968.5	21877.5	21558.9	21725.7	21490.6	23379.4	24335.3	26269.6	26163.4	26178.6
32.5°	15846.7	15505.4	15376.4	15626.8	15384.0	15209.5	16044.0	18228.7	18190.8	18342.5
35°	9588.5	9542.9	9649.1	9869.1	9383.6	9368.5	9542.9	11598.7	11849.0	12091.8
37.5°	5294.9	5249.4	5332.8	6144.5	5985.2	5841.1	5886.6	6971.4	7692.0	7874.1
40°	3489.5	3481.9	3542.6	3686.7	3959.8	3906.7	3929.4	4414.9	5097.7	5257.0
42.5°	2336.4	2344.0	2381.9	2548.8	2586.8	2859.8	2814.3	2928.1	3565.3	3701.9
45°	1866.1	1858.5	1881.3	1805.4	1850.9	2131.6	2162.0	2169.5	2715.7	2799.2
47.5°	1471.6	1471.6	1494.4	1395.8	1373.0	1547.5	1706.8	1729.6	2169.5	2283.3
50°	1031.7	1031.7	1145.5	1099.9	1153.0	1206.1	1380.6	1403.4	1775.1	1896.5
52.5°	758.6	773.8	788.9	796.5	971.0	963.4	1115.1	1221.3	1342.7	1555.1
55°	576.5	591.7	553.8	591.7	720.7	804.1	834.4	986.2	1069.6	1304.8
57.5°	379.3	417.2	386.9	455.1	485.5	622.0	667.6	811.7	864.8	1069.6
60°	53.1	60.7	98.6	318.6	341.4	409.6	515.8	644.8	697.9	872.4
62.5°	7.6	7.6	22.8	53.1	227.6	273.1	386.9	447.6	515.8	652.4
65°	0.0	0.0	7.6	15.2	45.5	159.3	197.2	242.7	356.5	470.3
67.5°	0.0	0.0	7.6	15.2	22.8	53.1	83.4	159.3	204.8	326.2
70°	0.0	0.0	7.6	15.2	22.8	30.3	45.5	60.7	121.4	189.6
72.5°	0.0	0.0	7.6	15.2	22.8	30.3	37.9	45.5	53.1	121.4
75°	0.0	0.0	7.6	15.2	22.8	37.9	45.5	45.5	45.5	53.1
77.5°	0.0	0.0	7.6	15.2	30.3	45.5	53.1	45.5	37.9	37.9
80°	0.0	0.0	7.6	22.8	37.9	53.1	60.7	45.5	30.3	22.8
82.5°	0.0	0.0	7.6	22.8	37.9	53.1	60.7	53.1	30.3	22.8
85°	0.0	0.0	7.6	22.8	30.3	37.9	60.7	53.1	30.3	15.2
87.5°	0.0	0.0	0.0	7.6	7.6	15.2	30.3	22.8	15.2	7.6
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°
91644.1	0°	91644.1	91644.1	91644.1	91644.1	91644.1	91644.1	91644.1	91644.1	91644.1
91879.3	2.5°	92562.0	92903.3	93502.6	93669.5	94185.3	93593.7	93267.5	93297.8	92592.3
91651.7	5°	92562.0	93343.3	94390.2	94890.8	95270.1	95239.8	95156.3	94943.9	94428.1
91196.5	7.5°	92319.2	93593.7	95035.0	95702.5	96157.7	96119.7	96309.4	95968.0	95338.4
90384.9	10°	91537.9	92645.4	94420.5	94966.7	95702.5	95717.7	95482.5	95550.8	94428.1
87418.8	12.5°	89080.1	89944.9	91500.0	92122.0	93017.1	93161.3	92903.3	92804.7	91742.7
82556.3	15°	84323.8	84824.5	86387.1	87009.2	87896.7	87775.3	88033.3	87927.1	86994.0
75987.0	17.5°	77367.6	77526.9	79165.5	79688.9	80523.3	80849.5	80462.6	80955.7	80151.6
66922.0	20°	67392.3	68249.5	70092.8	70896.9	71382.4	71966.5	71458.3	72012.0	71071.4
55922.6	22.5°	57272.8	57781.1	59449.9	60610.6	61513.3	61627.1	61437.4	61824.3	60557.5
46227.9	25°	46220.3	47062.3	48382.3	49899.4	50787.0	51333.1	50840.1	51090.4	50885.6
35850.5	27.5°	36457.4	37208.4	38202.1	39332.4	40667.5	41380.6	40986.1	41410.9	40409.6
26732.4	30°	26755.1	27134.4	28257.1	29455.7	30919.7	31784.5	31822.4	32254.8	31663.1
18729.4	32.5°	18865.9	19199.7	19890.0	20686.5	22082.3	23045.7	22894.0	22954.6	22590.5
12205.6	35°	12266.2	12713.8	13206.9	13586.2	14428.2	15490.2	15406.8	15330.9	15080.6
8025.8	37.5°	8200.3	8374.7	8647.8	8989.2	9535.4	10202.9	10422.9	10149.8	10043.6
5416.3	40°	5545.2	5848.7	6030.7	6288.6	6546.5	7107.9	7259.6	7206.5	7100.3
3792.9	42.5°	3937.0	4172.2	4399.8	4650.1	4786.6	5135.6	5431.4	5348.0	5302.5
2882.6	45°	2988.8	3201.2	3466.7	3656.4	3792.9	3997.7	4278.4	4308.7	4240.5
2313.7	47.5°	2397.1	2586.8	2799.2	3034.3	3193.6	3322.6	3565.3	3656.4	3610.8
1949.6	50°	2033.0	2177.1	2381.9	2617.1	2791.6	2905.4	3117.8	3216.4	3186.0
1630.9	52.5°	1729.6	1904.0	2093.7	2290.9	2503.3	2617.1	2814.3	2958.5	2935.7
1350.3	55°	1433.7	1661.3	1858.5	2055.8	2298.5	2412.3	2586.8	2776.4	2738.5
1145.5	57.5°	1251.7	1441.3	1646.1	1835.8	2093.7	2245.4	2404.7	2601.9	2594.3
940.6	60°	1046.8	1236.5	1464.1	1623.4	1896.5	2108.9	2253.0	2457.8	2473.0
713.1	62.5°	834.4	1069.6	1244.1	1464.1	1714.4	1964.7	2101.3	2306.1	2381.9
546.2	65°	622.0	880.0	1077.2	1297.2	1532.3	1813.0	1934.4	2139.2	2215.1
394.5	67.5°	462.7	660.0	910.3	1099.9	1365.4	1608.2	1752.3	1942.0	1995.1
235.2	70°	348.9	508.2	758.6	925.5	1198.6	1395.8	1539.9	1684.0	1752.3
159.3	72.5°	204.8	379.3	599.3	796.5	1031.7	1198.6	1304.8	1418.5	1464.1
75.9	75°	144.1	288.3	470.3	660.0	834.4	971.0	1069.6	1168.2	1213.7
37.9	77.5°	75.9	212.4	371.7	531.0	652.4	766.2	864.8	940.6	971.0
30.3	80°	45.5	151.7	303.4	417.2	500.7	599.3	697.9	751.0	743.4
22.8	82.5°	30.3	121.4	220.0	303.4	364.1	440.0	508.2	546.2	546.2
15.2	85°	22.8	83.4	151.7	235.2	242.7	303.4	318.6	356.5	364.1
15.2	87.5°	15.2	53.1	83.4	136.5	129.0	159.3	166.9	189.6	204.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
91644.1
92023.4
94595.0
95482.5
94101.9
91500.0
87289.9
79954.4
70995.5
60383.0
50756.6
40667.5
31769.3
22795.3
14860.6
10020.8
7115.5
5264.5
4232.9
3588.1
3178.5
2920.5
2738.5
2586.8
2473.0
2374.4
2207.5
1995.1
1737.1
1448.9
1198.6
963.4
735.8
538.6
356.5
197.2
0.0

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