

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: P638762

Luminaire Tested: **EPH-VN-03-E-935-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638762
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-935-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15102.2 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

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



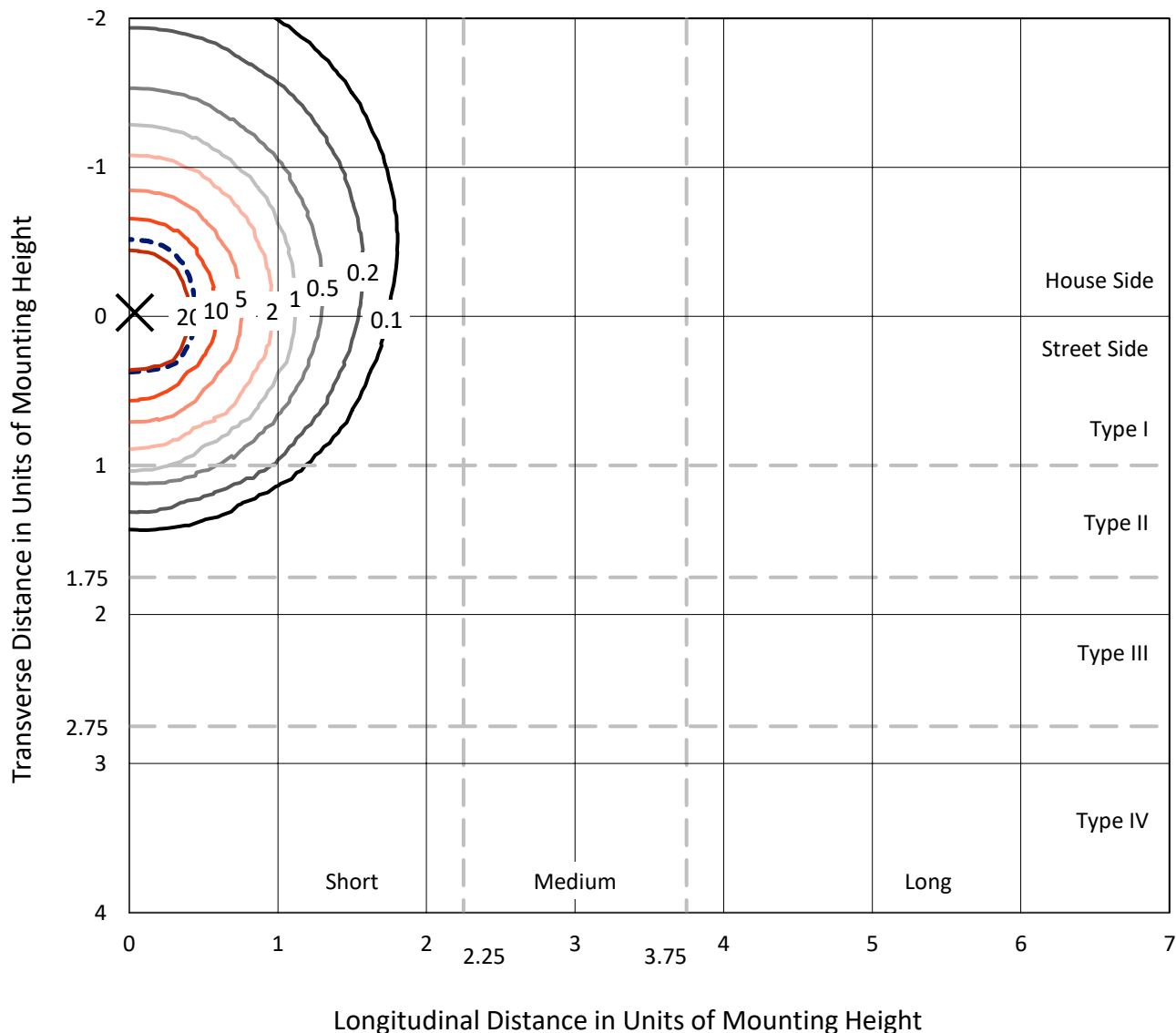
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

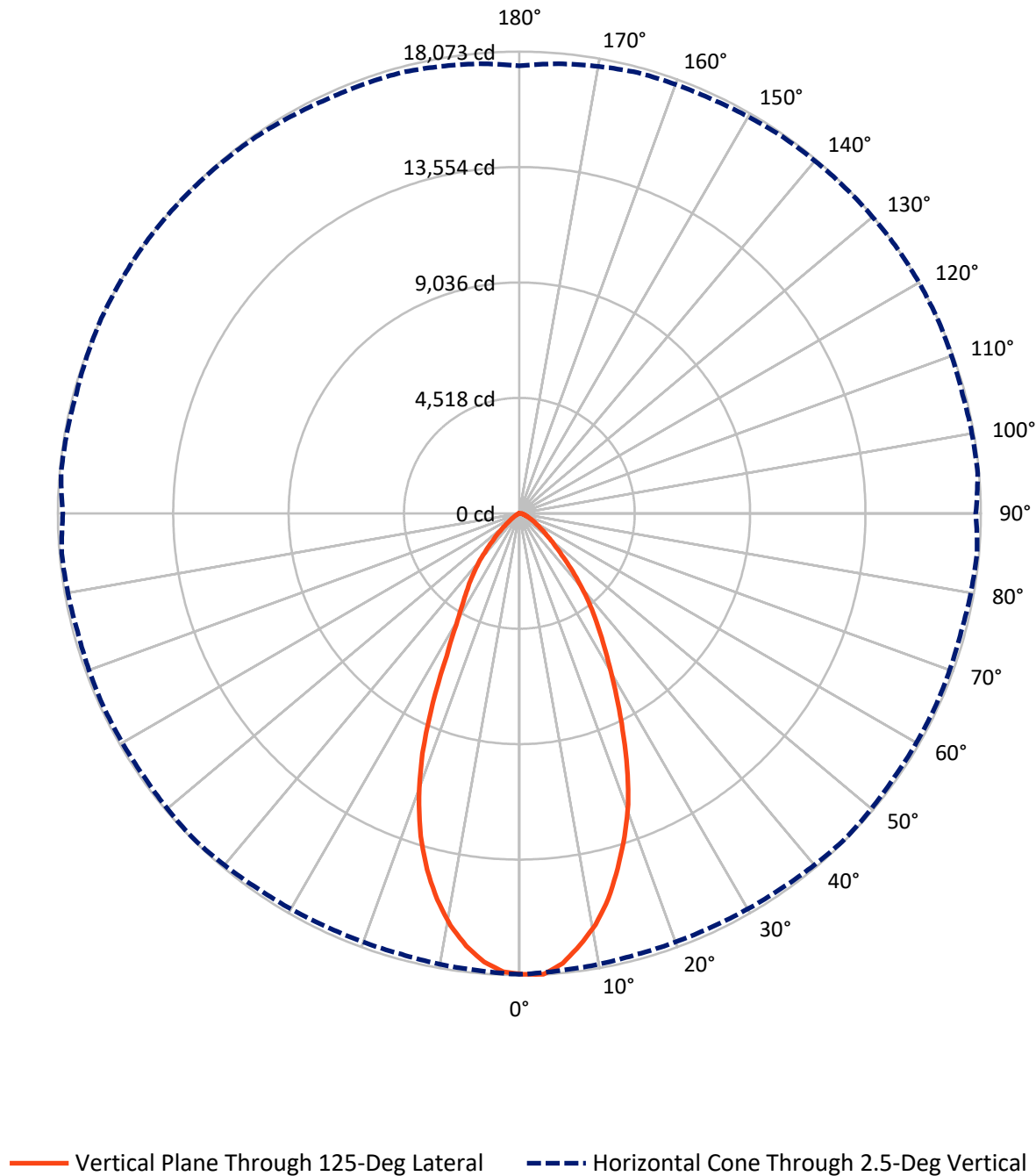


Based on 20 foot mounting height. Maximum calculated value = 45.1 fc

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	8569.6	0.0	8569.6
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6532.6	0.0	6532.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	15102.2	0.0	15102.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1638.4	10.8
10°-20°	3905.6	25.9
20°-30°	3977.8	26.3
30°-40°	2966.2	19.6
40°-50°	1549.6	10.3
50°-60°	651.8	4.3
60°-70°	266.2	1.8
70°-80°	112.0	0.7
80°-90°	34.5	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°	15102.2	100.0
0°-180°	15102.2	100.0

Coefficient of Utilization



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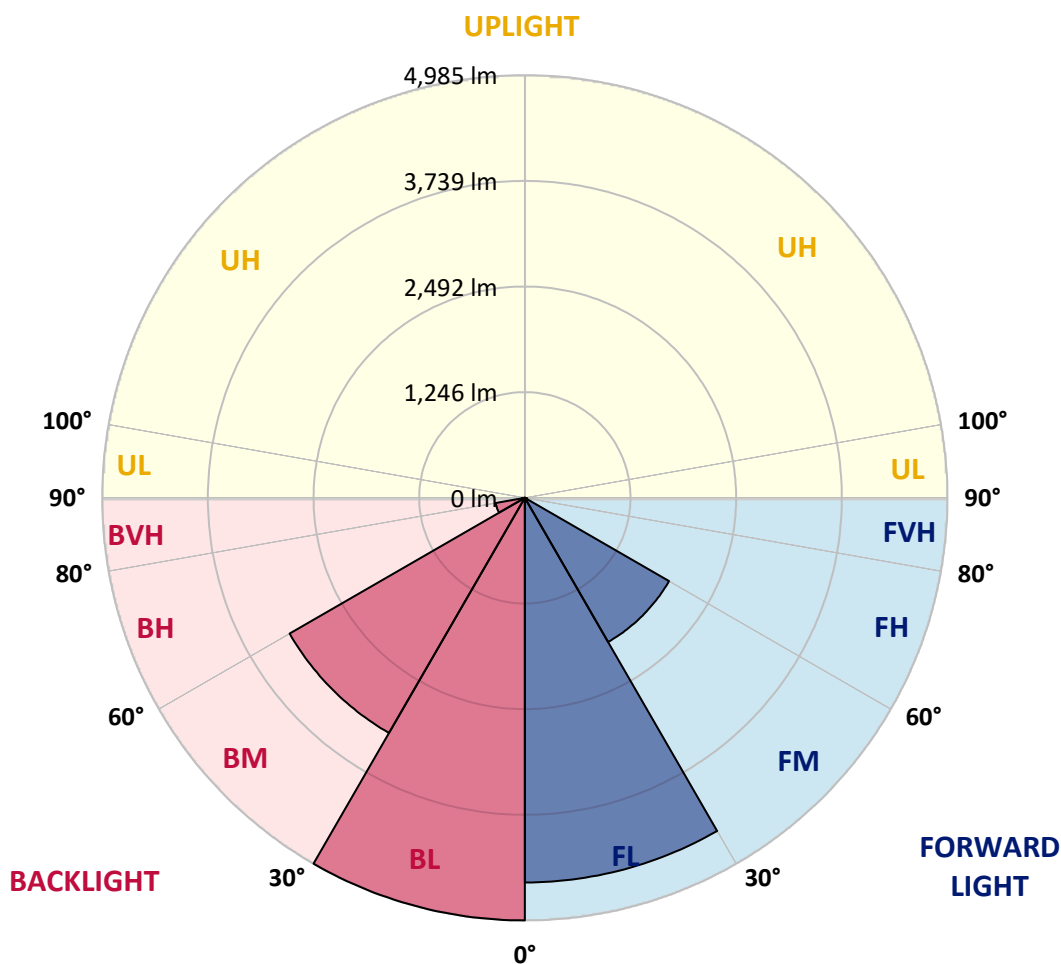
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4536.9	30.0			
FM	(30°-60°)	1964.1	13.0			
FH	(60°-80°)	28.4	0.2			G0/660
FVH	(80°-90°)	3.2	0.0			G0/10
BL	(0°-30°)	4984.9	33.0	B4/5000		
BM	(30°-60°)	3203.5	21.2	B3/5000		
BH	(60°-80°)	349.8	2.3	B1/500		G1/500
BVH	(80°-90°)	31.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18043.5	18043.5	18043.5	18043.5	18043.5	18043.5	18043.5	18043.5	18043.5	18043.5
2.5°	18045.4	17971.7	17866.9	17857.2	17911.5	18029.9	17954.2	17958.1	17911.5	17991.1
5°	17762.2	17692.3	17620.5	17525.5	17605.0	17655.5	17616.7	17574.0	17513.9	17591.4
7.5°	17226.7	17187.9	17081.2	17038.6	17087.1	17143.3	17059.9	17048.3	16964.8	17065.7
10°	16408.1	16392.6	16287.8	16262.6	16305.3	16390.6	16353.8	16346.0	16293.6	16283.9
12.5°	15558.4	15498.2	15368.3	15360.5	15424.5	15552.6	15453.6	15358.6	15387.7	15412.9
15°	13370.1	13306.1	13628.1	14134.5	14400.2	14390.5	14419.6	14305.2	14270.3	14281.9
17.5°	10629.0	10520.3	10636.7	11420.5	12683.4	13416.7	13214.9	12968.6	12836.6	12749.3
20°	9174.0	9179.8	9158.5	9360.2	10147.9	11820.1	11771.6	11296.3	11123.7	11051.9
22.5°	8289.4	8256.4	8209.9	8273.9	8485.3	9466.9	10124.6	9688.1	9628.0	9548.4
25°	7422.2	7422.2	7366.0	7430.0	7490.1	7503.7	8163.3	8341.8	8225.4	8225.4
27.5°	6671.5	6632.7	6607.5	6636.6	6557.0	6174.9	6258.3	7172.0	7092.5	7044.0
30°	5926.5	5914.9	5872.2	5911.0	5616.1	5185.5	5010.9	6052.6	6136.1	6118.6
32.5°	4892.5	4939.1	5129.2	5189.4	4685.0	4337.7	4170.9	5024.5	5358.1	5344.6
35°	3325.1	3363.9	3581.1	4298.9	3883.8	3635.5	3587.0	3996.3	4545.3	4597.7
37.5°	2648.0	2642.2	2704.3	2832.3	3121.4	3061.2	3047.7	3154.4	3707.2	3730.5
40°	2182.4	2174.7	2172.7	2068.0	1996.2	2545.2	2508.4	2444.3	2923.5	2970.1
42.5°	1759.5	1767.3	1773.1	1544.2	1439.4	1963.2	1941.9	1875.9	2293.0	2347.3
45°	1381.2	1379.3	1390.9	1150.4	1121.3	1255.1	1451.1	1398.7	1730.4	1788.6
47.5°	715.8	741.1	898.2	890.4	904.0	890.4	1098.0	1084.4	1301.7	1394.8
50°	481.1	488.9	502.4	504.4	712.0	655.7	744.9	843.9	911.8	1055.3
52.5°	372.5	378.3	343.4	322.0	436.5	485.0	488.9	583.9	636.3	781.8
55°	207.6	232.8	250.3	252.2	240.6	358.9	357.0	432.6	473.3	570.3
57.5°	27.2	33.0	50.4	163.0	161.0	199.8	250.3	314.3	337.6	417.1
60°	1.9	3.9	5.8	25.2	106.7	116.4	170.7	195.9	234.7	292.9
62.5°	0.0	0.0	1.9	5.8	21.3	67.9	89.2	102.8	137.7	192.1
65°	0.0	0.0	1.9	3.9	7.8	25.2	34.9	56.3	81.5	118.3
67.5°	0.0	0.0	1.9	3.9	5.8	9.7	15.5	25.2	42.7	71.8
70°	0.0	0.0	1.9	3.9	5.8	7.8	11.6	15.5	23.3	38.8
72.5°	0.0	0.0	1.9	1.9	3.9	9.7	9.7	11.6	15.5	21.3
75°	0.0	0.0	1.9	3.9	5.8	9.7	9.7	9.7	11.6	13.6
77.5°	0.0	0.0	1.9	3.9	5.8	9.7	7.8	9.7	9.7	9.7
80°	0.0	0.0	1.9	3.9	5.8	9.7	11.6	9.7	7.8	7.8
82.5°	0.0	0.0	1.9	5.8	5.8	13.6	13.6	13.6	5.8	5.8
85°	0.0	0.0	3.9	5.8	9.7	15.5	15.5	11.6	5.8	3.9
87.5°	0.0	0.0	1.9	3.9	3.9	7.8	11.6	9.7	3.9	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°
18043.5	0°	18043.5	18043.5	18043.5	18043.5	18043.5	18043.5	18043.5	18043.5	18043.5
17874.7	2.5°	18018.2	17969.7	18060.9	18072.6	18033.8	17985.3	17872.7	17863.0	17667.1
17478.9	5°	17676.8	17597.3	17655.5	17694.3	17680.7	17628.3	17581.7	17539.1	17362.5
16836.8	7.5°	17040.5	17011.4	17038.6	17067.7	17123.9	17067.7	17048.3	17003.6	16829.0
16204.4	10°	16334.4	16280.0	16382.9	16369.3	16353.8	16338.2	16256.8	16264.5	16058.9
15343.0	12.5°	15467.2	15376.0	15475.0	15486.6	15475.0	15420.6	15329.5	15368.3	15180.1
14179.1	15°	14301.3	14291.6	14363.4	14409.9	14442.9	14384.7	14353.7	14373.1	14260.6
12681.4	17.5°	12869.6	12995.7	13230.4	13310.0	13311.9	13372.1	13354.6	13331.3	13247.9
11022.8	20°	11185.7	11428.2	11789.1	12159.6	12266.3	12215.9	12192.6	12235.3	12111.1
9465.0	22.5°	9631.8	9839.4	10258.4	10799.7	11112.0	11143.1	11137.2	11100.4	11051.9
8217.6	25°	8312.7	8497.0	8898.5	9393.2	9992.7	10081.9	10085.8	10074.2	10031.5
7086.6	27.5°	7199.1	7422.2	7643.4	8085.7	8723.9	9092.5	9046.0	9032.4	9016.9
6132.2	30°	6190.4	6471.7	6679.2	6954.7	7527.0	8025.6	8074.1	8050.8	8013.9
5342.6	32.5°	5391.1	5558.0	5821.8	6008.0	6419.3	6983.8	7170.0	7152.6	7119.6
4630.7	35°	4696.6	4762.6	4970.1	5177.7	5451.3	5998.3	6273.8	6235.0	6229.2
3773.2	37.5°	3868.3	4089.4	4203.9	4413.4	4605.4	5030.3	5410.5	5393.1	5395.0
3034.1	40°	3123.3	3251.4	3478.3	3654.9	3831.4	4141.8	4564.7	4576.3	4572.5
2349.3	42.5°	2397.8	2521.9	2760.5	2952.6	3109.7	3301.8	3705.3	3718.9	3736.3
1829.4	45°	1872.0	1951.6	2126.2	2326.0	2492.8	2609.2	2915.7	3003.0	3005.0
1418.1	47.5°	1453.0	1544.2	1668.4	1860.4	2023.4	2106.8	2329.9	2448.2	2442.4
1088.3	50°	1140.7	1224.1	1325.0	1476.3	1652.8	1718.8	1883.7	2000.1	1994.3
820.6	52.5°	873.0	979.7	1068.9	1185.3	1358.0	1414.2	1532.6	1666.4	1647.0
601.4	55°	661.5	770.2	853.6	950.6	1107.7	1179.5	1261.0	1367.7	1371.5
465.6	57.5°	498.6	611.1	686.7	785.7	904.0	983.6	1045.6	1160.1	1158.1
318.2	60°	357.0	453.9	545.1	647.9	739.1	830.3	873.0	981.6	985.5
225.0	62.5°	258.0	349.2	436.5	525.7	607.2	696.4	735.2	820.6	832.2
147.4	65°	180.4	244.4	345.3	413.2	504.4	570.3	620.8	694.5	708.1
87.3	67.5°	116.4	176.5	273.5	333.7	417.1	473.3	525.7	583.9	601.4
56.3	70°	69.8	133.9	203.7	267.7	343.4	393.8	444.2	494.7	504.4
27.2	72.5°	44.6	93.1	147.4	217.3	275.5	329.8	374.4	411.3	382.2
17.5	75°	25.2	64.0	116.4	170.7	223.1	275.5	312.3	331.7	265.8
11.6	77.5°	15.5	46.6	95.1	137.7	172.7	221.2	244.4	256.1	190.1
7.8	80°	9.7	34.9	79.5	112.5	112.5	163.0	190.1	199.8	137.7
5.8	82.5°	7.8	25.2	62.1	85.4	75.7	122.2	149.4	151.3	97.0
3.9	85°	5.8	19.4	38.8	56.3	52.4	85.4	87.3	97.0	64.0
3.9	87.5°	3.9	11.6	23.3	33.0	29.1	40.7	46.6	52.4	34.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
18043.5
17513.9
17220.9
16792.2
15989.1
15125.8
14124.8
13123.7
12021.9
10958.8
9887.9
8925.7
7967.4
7032.3
6165.2
5332.9
4504.6
3678.1
2954.5
2421.1
1994.3
1649.0
1371.5
1154.3
975.8
828.4
704.2
599.4
496.6
355.0
252.2
178.5
128.0
89.2
58.2
31.0
0.0

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