

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: STREETWORKS

Report Number: P638407

Luminaire Tested: **IFLD-M-SA4C-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638407
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20668.1 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

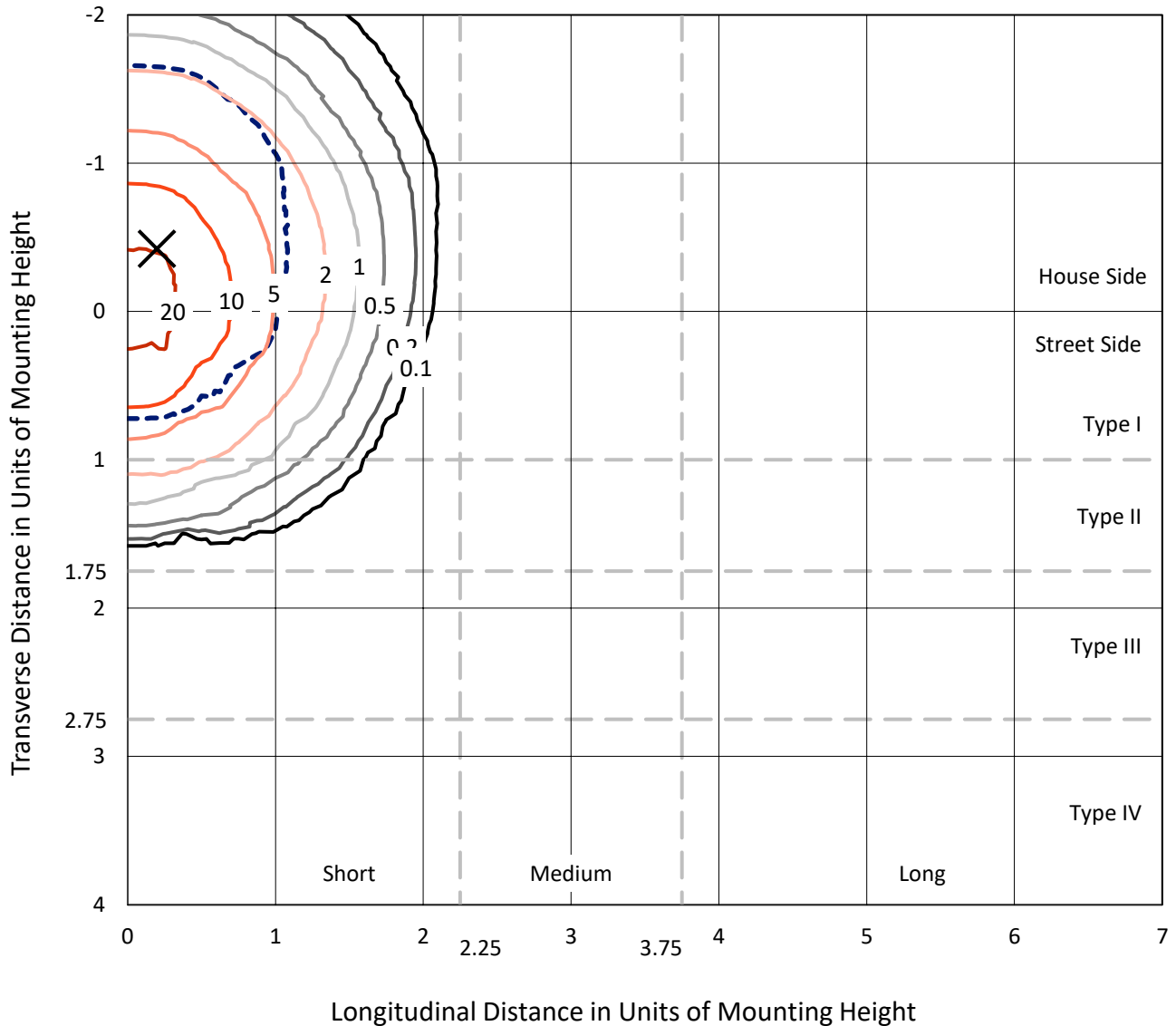
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

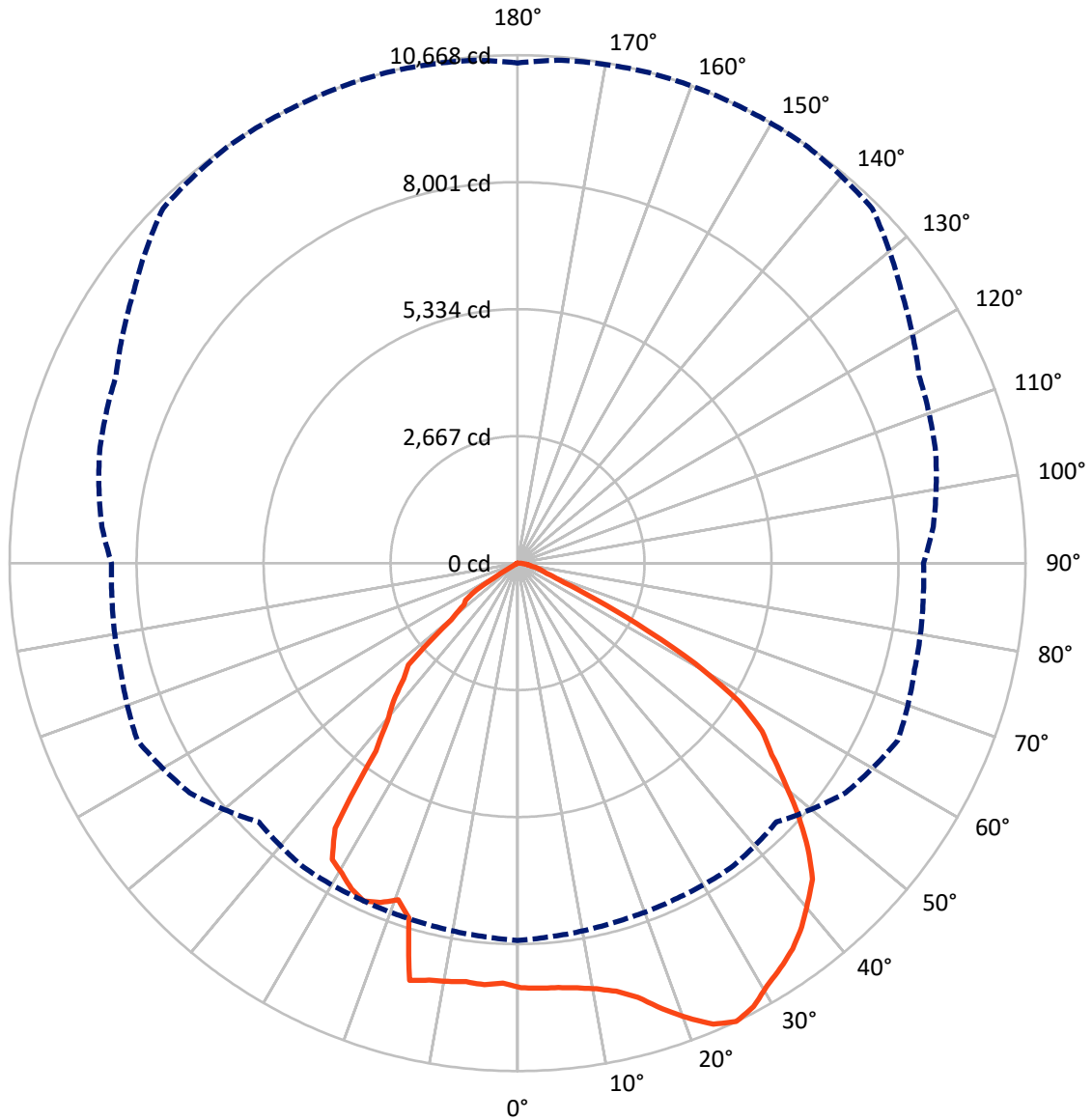
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12795.7	0.0	12795.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7872.4	0.0	7872.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	20668.1	0.0	20668.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.6	4.1
10°-20°	2612.4	12.6
20°-30°	4130.1	20.0
30°-40°	4665.3	22.6
40°-50°	4369.1	21.1
50°-60°	3012.2	14.6
60°-70°	809.3	3.9
70°-80°	168.6	0.8
80°-90°	45.6	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°	20668.1	100.0
0°-180°	20668.1	100.0



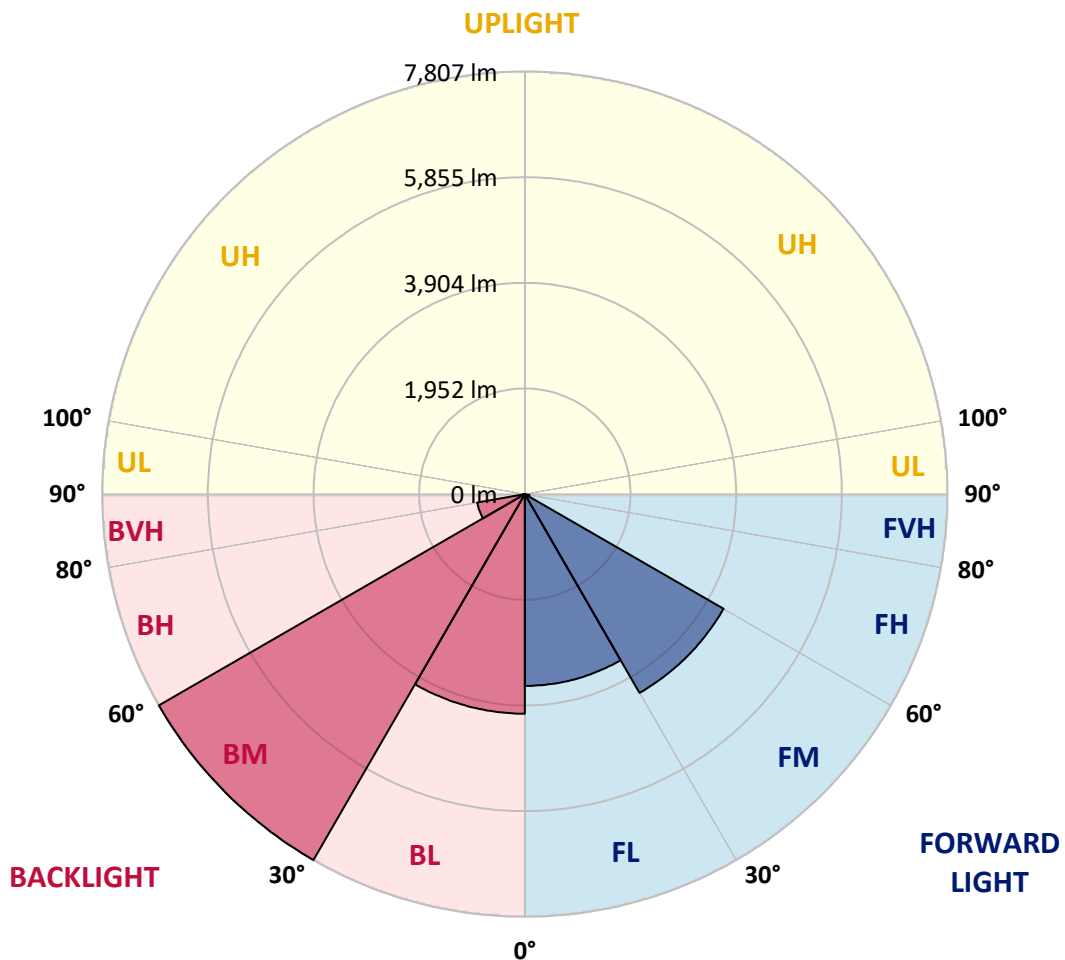
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3541.9	17.1			
FM (30°-60°)	4239.5	20.5			
FH (60°-80°)	84.9	0.4			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	4056.2	19.6	B4/5000		
BM (30°-60°)	7807.1	37.8	B4/8500		
BH (60°-80°)	893.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	39.5	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8917.9	8917.9	8917.9	8917.9	8917.9	8917.9	8917.9	8917.9	8917.9	8917.9
2.5°	8957.4	8899.7	8845.0	8826.8	8902.7	8984.7	8933.1	8936.1	8917.9	8951.3
5°	9024.2	8945.3	8908.8	8881.5	8893.6	8978.7	8905.8	8933.1	8902.7	8942.2
7.5°	8999.9	8945.3	8908.8	8857.2	8896.7	8996.9	8927.0	8930.1	8914.9	8951.3
10°	8984.7	8945.3	8899.7	8905.8	8951.3	9036.4	8981.7	9012.1	8990.8	9012.1
12.5°	9021.2	8978.7	8954.4	8954.4	8993.9	9091.1	9063.7	9091.1	9081.9	9100.2
15°	8678.0	8717.4	8948.3	9051.6	9130.5	9227.7	9215.6	9242.9	9249.0	9276.3
17.5°	7320.2	7280.7	7262.5	7794.1	9206.5	9507.2	9498.1	9495.0	9464.7	9443.4
20°	7499.4	7484.2	7463.0	7502.5	7660.4	9653.0	9713.7	9340.1	9230.8	9221.7
22.5°	7785.0	7760.7	7681.7	7684.7	7733.3	8392.4	9413.0	9072.8	9036.4	9015.1
25°	7924.7	7876.1	7812.3	7794.1	7809.3	7687.8	8407.6	8811.6	8632.4	8550.4
27.5°	7678.6	7681.7	7630.0	7678.6	7620.9	7074.2	6767.4	8301.3	8295.2	8258.8
30°	7493.4	7484.2	7423.5	7484.2	7086.3	6475.8	6345.2	7742.4	7678.6	7630.0
32.5°	6925.4	6931.4	7107.6	7344.5	6691.5	6208.5	5813.7	6916.2	7520.7	7493.4
35°	4954.1	4966.2	5591.9	6761.3	6093.1	5677.0	5646.6	5977.7	7271.6	7283.8
37.5°	4768.8	4768.8	4753.6	4944.9	5622.3	5461.3	5522.1	5488.7	6661.1	6691.5
40°	4635.1	4607.8	4586.5	4285.8	3909.2	5309.4	5352.0	5200.1	6296.6	6302.7
42.5°	4474.1	4443.8	4449.8	3894.0	3499.1	4932.8	4814.3	4610.8	5689.1	5695.2
45°	4179.5	4231.2	4267.6	3408.0	3377.6	3523.4	4440.7	4313.2	5279.1	5391.5
47.5°	2126.2	2171.8	3332.1	3134.6	3204.5	3131.6	3751.2	3754.3	4392.1	4765.7
50°	1928.8	1916.6	1919.7	1828.5	2958.5	2533.2	2712.4	3441.4	3517.4	4051.9
52.5°	1798.2	1795.1	1609.8	1430.6	1858.9	2229.5	1968.3	2490.7	2615.2	3432.3
55°	1330.4	1427.6	1269.6	1345.6	1163.3	1786.0	1776.9	2247.7	2290.2	2751.9
57.5°	12.1	15.2	36.4	1023.6	804.9	893.0	1227.1	1533.9	1609.8	2144.4
60°	3.0	6.1	15.2	30.4	522.4	549.8	820.1	886.9	999.3	1278.8
62.5°	0.0	0.0	6.1	15.2	27.3	224.8	261.2	285.5	440.4	653.0
65°	0.0	0.0	3.0	9.1	15.2	36.4	63.8	133.6	191.4	236.9
67.5°	0.0	0.0	3.0	6.1	12.1	18.2	36.4	51.6	82.0	139.7
70°	0.0	0.0	3.0	6.1	9.1	15.2	24.3	36.4	48.6	69.9
72.5°	0.0	0.0	3.0	6.1	6.1	18.2	18.2	27.3	36.4	45.6
75°	0.0	0.0	3.0	3.0	6.1	12.1	18.2	21.3	24.3	36.4
77.5°	0.0	0.0	3.0	6.1	9.1	12.1	15.2	24.3	21.3	21.3
80°	0.0	0.0	3.0	9.1	9.1	15.2	18.2	24.3	15.2	15.2
82.5°	0.0	0.0	3.0	12.1	9.1	30.4	30.4	33.4	12.1	12.1
85°	0.0	0.0	9.1	6.1	18.2	30.4	27.3	18.2	15.2	9.1
87.5°	0.0	0.0	3.0	3.0	6.1	9.1	21.3	18.2	6.1	6.1
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°
8917.9	0°	8917.9	8917.9	8917.9	8917.9	8917.9	8917.9	8917.9	8917.9	8917.9
8863.2	2.5°	8984.7	8945.3	9027.3	9018.2	8978.7	8960.4	8939.2	8921.0	8787.3
8869.3	5°	8987.8	8927.0	9027.3	9009.0	9003.0	8972.6	8954.4	8981.7	8860.2
8893.6	7.5°	8987.8	8927.0	9036.4	9042.5	9033.3	9009.0	9006.0	9024.2	8924.0
8936.1	10°	9048.5	9024.2	9115.4	9124.5	9112.3	9106.2	9091.1	9078.9	8972.6
9081.9	12.5°	9176.1	9127.5	9230.8	9258.1	9249.0	9264.2	9227.7	9246.0	9136.6
9230.8	15°	9331.0	9334.0	9413.0	9473.8	9467.7	9516.3	9461.6	9510.2	9431.2
9400.9	17.5°	9567.9	9601.3	9713.7	9804.9	9838.3	9874.7	9838.3	9853.4	9741.1
9212.6	20°	9318.9	9443.4	9984.1	10151.1	10221.0	10254.4	10193.6	10211.9	10099.5
8981.7	22.5°	9094.1	9255.1	9735.0	10257.4	10473.1	10539.9	10518.6	10515.6	10473.1
8526.1	25°	8763.0	9088.0	9303.7	9856.5	10533.8	10655.3	10667.5	10664.4	10600.7
8246.6	27.5°	8356.0	8428.9	8987.8	9324.9	10108.6	10570.3	10552.1	10464.0	10378.9
7666.5	30°	7836.6	8167.7	8419.8	8957.4	9558.8	10309.1	10309.1	10242.2	10154.2
7459.9	32.5°	7572.3	8000.6	8234.5	8428.9	8942.2	10017.5	10139.0	10069.1	9999.2
7299.0	35°	7432.6	7496.4	8043.1	8219.3	8653.7	9455.5	9947.6	9877.7	9826.1
6870.7	37.5°	7125.8	7274.7	7529.8	8000.6	8134.3	8996.9	9692.5	9656.0	9595.3
6314.8	40°	6442.4	6840.3	7232.1	7678.6	7818.4	8407.6	9382.6	9397.8	9315.8
5722.5	42.5°	6038.4	6308.8	6922.3	7223.0	7599.7	8027.9	9081.9	9106.2	9048.5
5421.8	45°	5564.6	5865.3	6296.6	6843.3	7356.7	7505.5	8550.4	8805.5	8756.9
4823.5	47.5°	5130.2	5373.2	5901.7	6454.6	7022.6	7001.3	7939.9	8419.8	8353.0
4364.8	50°	4513.6	4938.9	5187.9	5695.2	6542.6	6600.4	7289.9	7967.2	7912.5
3708.7	52.5°	3805.9	4340.5	4817.4	5282.1	6056.7	6193.3	6685.4	7505.5	7469.1
2833.9	55°	3326.0	3714.8	4252.4	4626.0	5467.4	5831.9	6232.8	7065.1	7046.9
2329.7	57.5°	2366.2	3116.4	3559.9	4082.3	4525.8	5184.9	5482.6	6169.0	5998.9
1290.9	60°	1603.8	1956.1	2496.8	3058.7	3356.4	4015.5	4291.9	4841.7	4796.1
771.5	62.5°	847.4	1172.5	1558.2	1840.7	2056.3	2697.2	2812.7	3405.0	3389.8
309.8	65°	373.6	495.1	844.4	990.2	1211.9	1509.6	1609.8	1822.5	1770.8
151.9	67.5°	194.4	294.6	476.9	586.2	738.1	850.5	932.5	999.3	1041.8
100.2	70°	118.5	215.7	294.6	407.0	507.3	598.4	662.2	753.3	808.0
51.6	72.5°	88.1	136.7	203.5	312.9	367.5	473.8	537.6	604.5	653.0
42.5	75°	48.6	91.1	164.0	246.0	294.6	385.8	443.5	489.0	504.2
24.3	77.5°	30.4	69.9	136.7	191.4	230.8	312.9	297.7	340.2	376.6
18.2	80°	21.3	51.6	106.3	157.9	161.0	200.5	236.9	273.4	297.7
12.1	82.5°	15.2	42.5	79.0	121.5	106.3	154.9	185.3	212.6	154.9
9.1	85°	12.1	30.4	39.5	72.9	60.7	109.3	94.2	91.1	60.7
6.1	87.5°	9.1	15.2	27.3	33.4	24.3	24.3	30.4	36.4	30.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8917.9
8696.2
8756.9
8808.6
8884.5
9039.4
9300.6
9643.9
10020.5
10336.4
10503.5
10312.1
10120.7
9941.5
9753.2
9534.5
9297.6
9042.5
8763.0
8401.6
7921.6
7493.4
7068.1
5980.7
4799.2
3392.8
1749.6
1041.8
811.0
662.2
495.1
382.7
300.7
112.4
60.7
30.4
0.0

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