

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: P637394

Luminaire Tested: **IFLD-M-SA4E-740-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637394  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-740-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34918.7 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

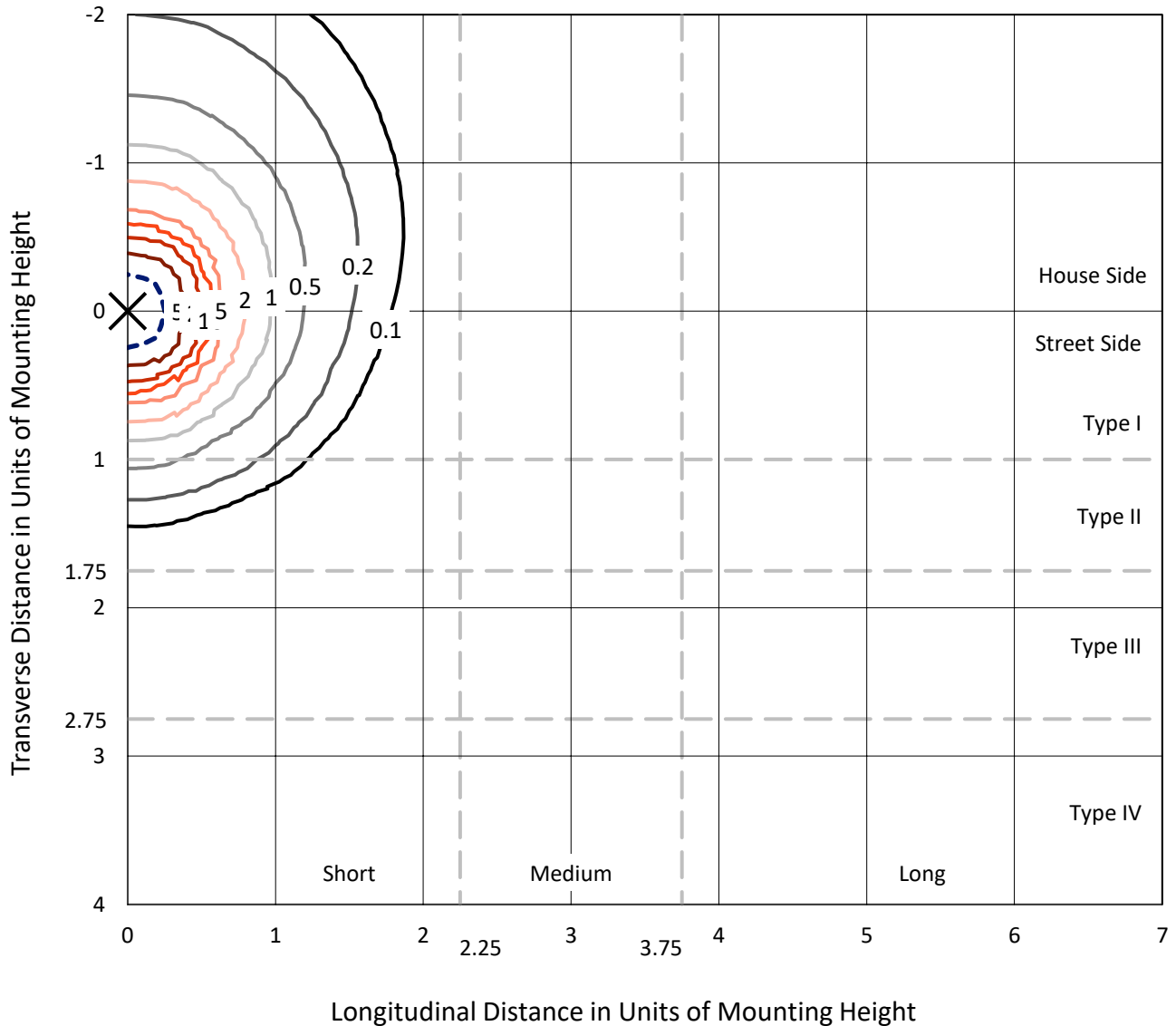
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

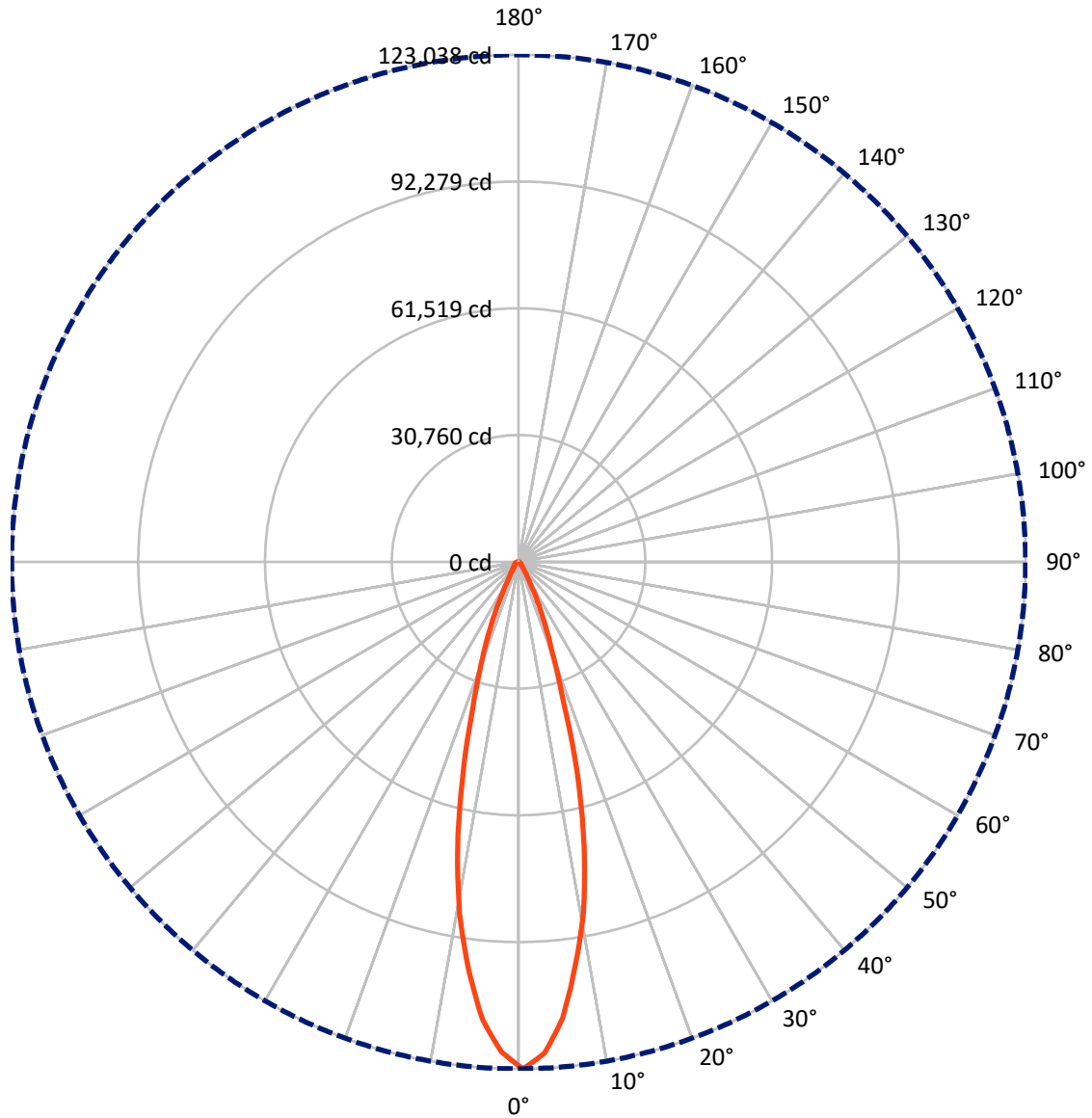
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 307.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18411.5	0.0	18411.5
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	16507.2	0.0	16507.2
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	34918.7	0.0	34918.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9930.3	28.4
10°-20°	15039.4	43.1
20°-30°	6346.7	18.2
30°-40°	1655.3	4.7
40°-50°	837.2	2.4
50°-60°	547.2	1.6
60°-70°	327.9	0.9
70°-80°	172.5	0.5
80°-90°	62.3	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°	34918.7	100.0
0°-180°	34918.7	100.0

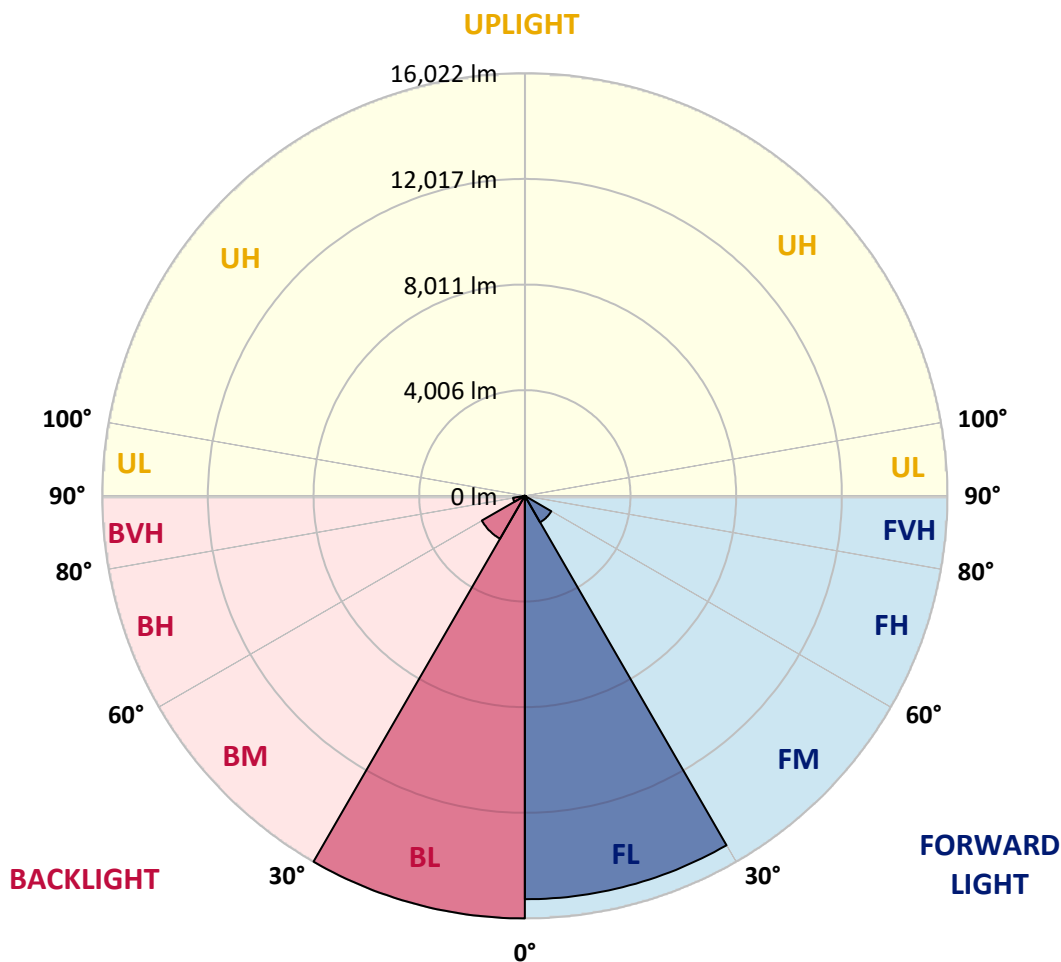


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15294.2	43.8			
FM (30°-60°)	1158.3	3.3			
FH (60°-80°)	47.2	0.1			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	16022.2	45.9	B5		
BM (30°-60°)	1881.5	5.4	B2/2500		
BH (60°-80°)	453.1	1.3	B1/500		G0/660
BVH (80°-90°)	54.7	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	123038.4	123038.4	123038.4	123038.4	123038.4	123038.4	123038.4	123038.4	123038.4	123038.4
2.5°	119454.3	119520.9	119273.9	119807.2	119391.5	120505.2	119952.3	120815.0	120524.8	121007.1
5°	111297.7	111187.9	111117.3	111944.7	111705.5	112901.6	112136.9	111885.9	112662.4	112521.2
7.5°	98980.5	99270.7	99106.0	99321.7	99443.3	100807.9	101239.3	100902.0	100913.8	101109.9
10°	86353.6	85926.1	85318.3	85722.2	86577.1	87173.1	86933.9	87428.0	87318.2	87784.9
12.5°	70816.9	71154.1	70813.0	70452.2	71946.3	71781.6	72197.2	72467.8	71789.4	73299.2
15°	53343.1	53519.5	53935.2	53907.7	55056.7	55288.1	55233.2	55519.4	54990.1	55241.0
17.5°	34269.3	34865.3	35982.9	37873.1	39998.5	40245.5	40182.8	39947.5	39692.6	39410.3
20°	23018.7	22956.0	23359.9	23912.8	28312.6	29477.3	29442.0	28704.8	27638.2	27434.2
22.5°	16124.9	16242.5	16187.6	16736.6	17646.4	20858.0	20462.0	19713.0	19364.0	19136.5
25°	10607.4	10564.3	10838.8	11003.5	11783.9	12176.0	13564.2	13285.8	12748.5	12807.4
27.5°	6466.4	6521.3	6623.3	6764.4	7317.4	7191.9	7984.0	8089.9	7917.3	7733.0
30°	3968.5	4007.7	4090.0	4192.0	4384.1	4246.9	4466.5	4846.9	4784.1	4654.7
32.5°	2694.0	2697.9	2756.8	2796.0	2772.4	2643.0	2713.6	3074.4	3082.2	3070.5
35°	1937.2	1937.2	1992.1	2023.5	1956.8	1850.9	1862.7	2086.2	2184.2	2203.8
37.5°	1337.2	1341.1	1435.2	1529.4	1454.8	1427.4	1380.3	1529.4	1686.2	1709.7
40°	1015.6	1011.7	1058.8	1129.4	1137.2	1086.2	1101.9	1196.0	1356.8	1376.4
42.5°	823.5	827.4	850.9	843.1	847.0	913.7	937.2	980.4	1129.4	1164.7
45°	694.1	698.0	709.8	670.6	654.9	756.8	788.2	811.7	937.2	980.4
47.5°	572.5	580.4	592.1	549.0	541.2	607.8	662.7	686.2	796.0	843.1
50°	411.7	419.6	462.7	439.2	462.7	478.4	552.9	588.2	662.7	725.5
52.5°	298.0	305.9	317.6	321.6	380.4	388.2	443.1	498.0	533.3	603.9
55°	235.3	243.1	235.3	227.4	278.4	321.6	341.2	400.0	427.4	509.8
57.5°	133.3	141.2	152.9	176.5	184.3	247.0	266.7	317.6	341.2	419.6
60°	23.5	27.4	43.1	105.9	129.4	156.9	200.0	243.1	274.5	329.4
62.5°	3.9	3.9	7.8	23.5	74.5	109.8	145.1	172.5	200.0	251.0
65°	0.0	0.0	3.9	7.8	19.6	62.7	78.4	102.0	137.2	180.4
67.5°	0.0	0.0	3.9	7.8	11.8	23.5	35.3	62.7	78.4	121.6
70°	0.0	0.0	3.9	7.8	11.8	15.7	19.6	27.4	47.1	74.5
72.5°	0.0	0.0	3.9	7.8	11.8	15.7	19.6	23.5	23.5	47.1
75°	0.0	0.0	3.9	7.8	11.8	19.6	23.5	23.5	19.6	19.6
77.5°	0.0	0.0	3.9	7.8	15.7	23.5	27.4	23.5	15.7	15.7
80°	0.0	0.0	7.8	11.8	19.6	27.4	35.3	27.4	15.7	7.8
82.5°	0.0	0.0	7.8	15.7	19.6	31.4	43.1	35.3	15.7	7.8
85°	0.0	0.0	3.9	11.8	23.5	31.4	43.1	31.4	15.7	3.9
87.5°	0.0	0.0	3.9	3.9	7.8	11.8	23.5	19.6	7.8	3.9
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°
123038.4	0°	123038.4	123038.4	123038.4	123038.4	123038.4	123038.4	123038.4	123038.4	123038.4
120093.5	2.5°	120783.6	121411.0	121540.5	121367.9	121618.9	121167.9	120822.8	119928.8	119391.5
112478.1	5°	113203.5	113109.4	113764.3	113980.0	113952.5	113607.4	113125.1	112583.9	112058.5
100729.5	7.5°	101356.9	101478.5	102074.5	102454.9	102262.8	101831.4	101498.1	101090.3	100737.3
87953.5	10°	88757.4	87922.1	88663.3	88663.3	89177.0	87957.4	88071.1	87043.7	87090.8
73271.7	12.5°	73522.7	73824.6	73946.2	74295.2	73695.2	73048.2	72256.1	72099.2	71609.0
54762.6	15°	55550.8	56413.5	55672.4	56939.0	56327.3	55652.8	55531.2	54315.6	54699.9
39720.1	17.5°	39524.0	40476.9	40774.9	41500.4	40943.5	40543.5	40037.7	39669.1	39641.6
27806.8	20°	28026.4	28983.2	29202.8	30073.4	30010.6	29885.1	29457.7	28991.0	28485.2
18928.7	22.5°	19215.0	19995.3	20724.7	21897.2	21877.6	21509.0	21465.8	20807.0	20818.8
12787.7	25°	12921.1	13489.7	13662.2	14862.2	14995.5	14956.3	14732.8	14121.0	14352.4
7811.5	27.5°	7819.3	8317.3	8901.6	9325.1	9725.1	9662.4	9438.9	9097.7	8948.7
4693.9	30°	4819.4	5042.9	5258.6	5768.4	6007.6	6133.1	6027.2	5709.6	5733.1
3090.1	32.5°	3156.7	3345.0	3501.8	3823.4	3948.9	4180.2	4137.1	4070.4	3992.0
2223.4	35°	2301.9	2439.1	2545.0	2694.0	2854.8	3050.9	3082.2	3054.8	3023.4
1717.6	37.5°	1756.8	1898.0	2019.5	2082.3	2207.8	2360.7	2447.0	2443.0	2419.5
1399.9	40°	1427.4	1533.3	1643.1	1725.4	1811.7	1925.4	2031.3	2043.1	2043.1
1176.4	42.5°	1192.1	1282.3	1392.1	1478.4	1541.1	1647.0	1756.8	1764.6	1756.8
996.0	45°	1019.6	1098.0	1203.9	1305.8	1356.8	1435.2	1541.1	1564.6	1549.0
854.9	47.5°	886.2	956.8	1047.0	1156.8	1211.7	1282.3	1380.3	1407.8	1403.9
737.2	50°	760.8	843.1	933.3	1023.5	1094.1	1160.7	1254.9	1286.2	1274.5
627.4	52.5°	670.6	745.1	823.5	921.5	1003.9	1062.7	1137.2	1192.1	1176.4
529.4	55°	560.8	651.0	733.3	815.7	917.6	980.4	1050.9	1117.6	1101.9
447.0	57.5°	486.3	560.8	654.9	729.4	831.3	905.8	976.4	1047.0	1043.1
364.7	60°	407.8	486.3	576.4	654.9	749.0	831.3	901.9	980.4	988.2
274.5	62.5°	321.6	415.7	494.1	584.3	678.4	768.6	831.3	909.8	921.5
207.8	65°	243.1	341.2	427.4	513.7	607.8	705.9	760.8	827.4	839.2
152.9	67.5°	180.4	262.7	364.7	443.1	541.2	635.3	686.2	741.1	760.8
94.1	70°	137.2	200.0	305.9	380.4	482.3	556.8	611.7	658.8	674.5
62.7	72.5°	86.3	156.9	247.0	325.5	415.7	482.3	521.5	549.0	572.5
35.3	75°	58.8	121.6	200.0	278.4	345.1	396.1	431.4	454.9	474.5
15.7	77.5°	35.3	94.1	164.7	231.4	274.5	313.7	349.0	364.7	376.5
11.8	80°	19.6	70.6	137.2	188.2	215.7	243.1	270.6	290.2	298.0
7.8	82.5°	11.8	54.9	109.8	145.1	156.9	184.3	211.8	223.5	223.5
3.9	85°	7.8	39.2	74.5	105.9	113.7	133.3	141.2	149.0	156.9
3.9	87.5°	7.8	23.5	47.1	58.8	62.7	70.6	74.5	82.3	90.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
123038.4  
118995.5  
111470.3  
99541.3  
86632.0  
71162.0  
54315.6  
38912.2  
28265.6  
20591.4  
13987.7  
8819.3  
5631.2  
3964.6  
3011.6  
2407.8  
2019.5  
1749.0  
1549.0  
1396.0  
1266.6  
1172.5  
1109.8  
1047.0  
992.1  
929.4  
850.9  
768.6  
682.3  
568.6  
470.6  
372.5  
290.2  
219.6  
152.9  
86.3  
0.0

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