

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: P637134

Luminaire Tested: **IFLD-L-SA7A-740-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637134  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-740-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31127.8 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

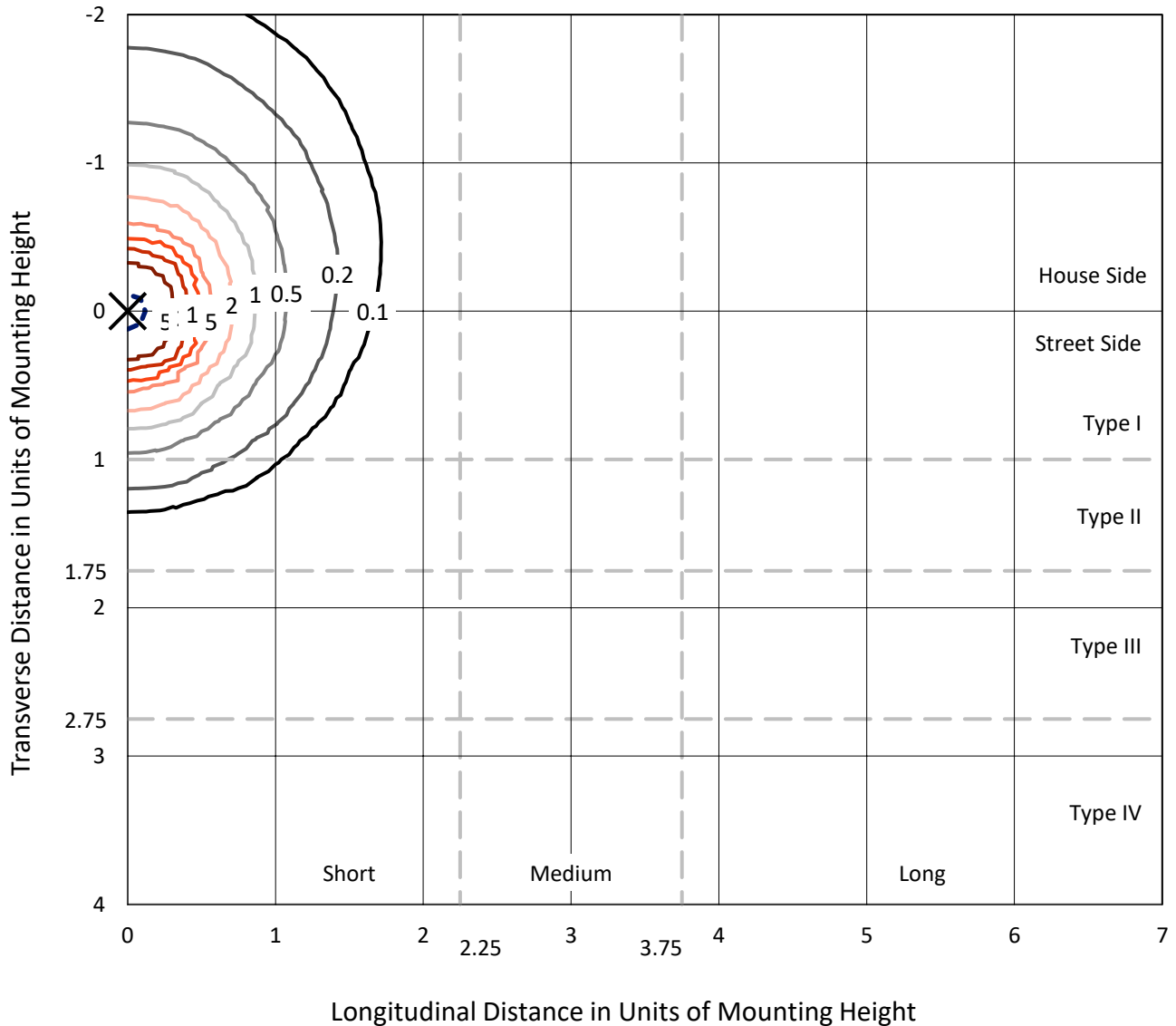
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

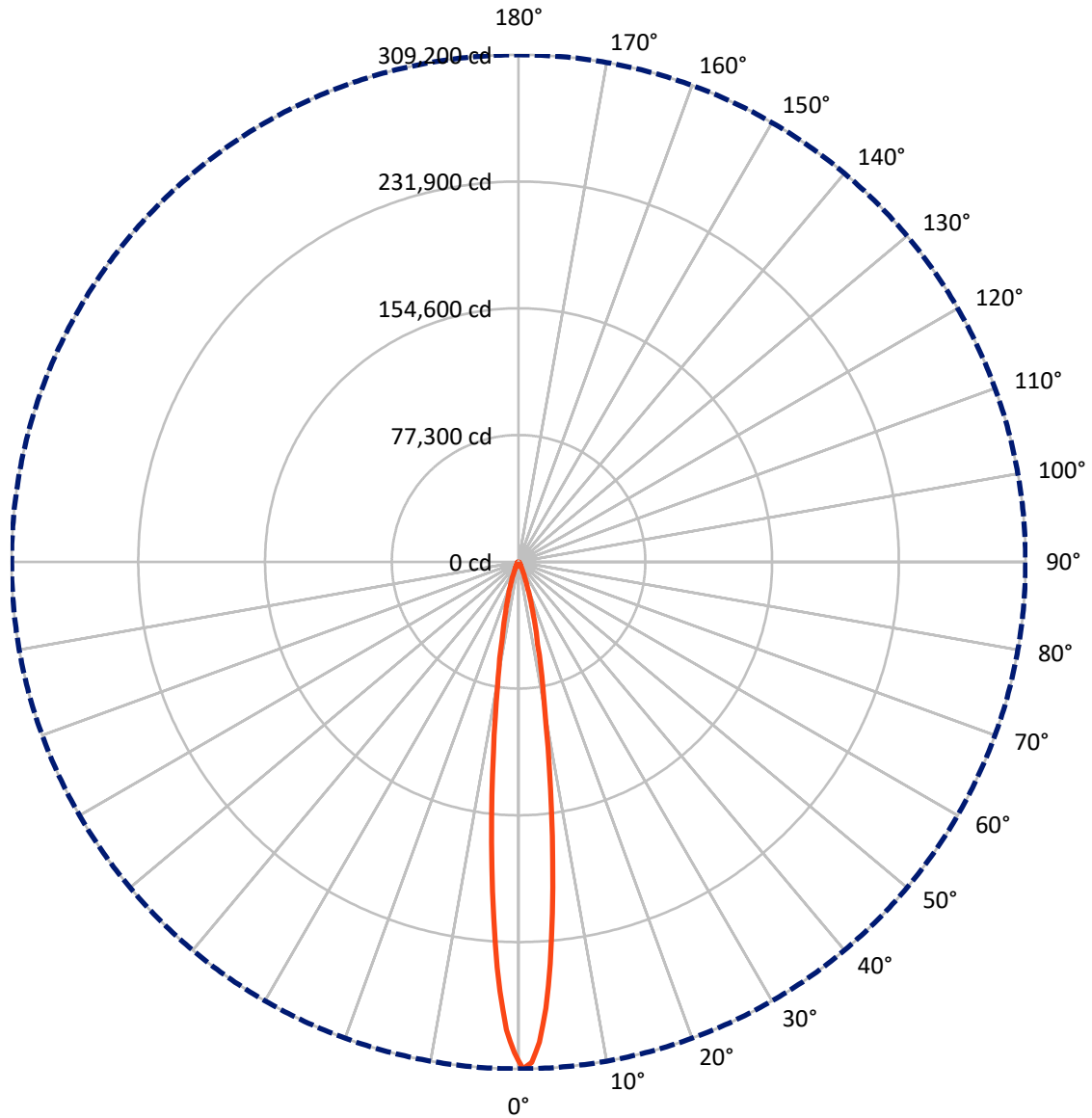
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 773 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	15943.1	0.0	15943.1
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	15184.7	0.0	15184.7
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	31127.8	0.0	31127.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15714.2	50.5
10°-20°	10060.2	32.3
20°-30°	3023.9	9.7
30°-40°	984.6	3.2
40°-50°	572.9	1.8
50°-60°	380.5	1.2
60°-70°	229.0	0.7
70°-80°	117.7	0.4
80°-90°	44.7	0.1
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°	31127.8	100.0
0°-180°	31127.8	100.0

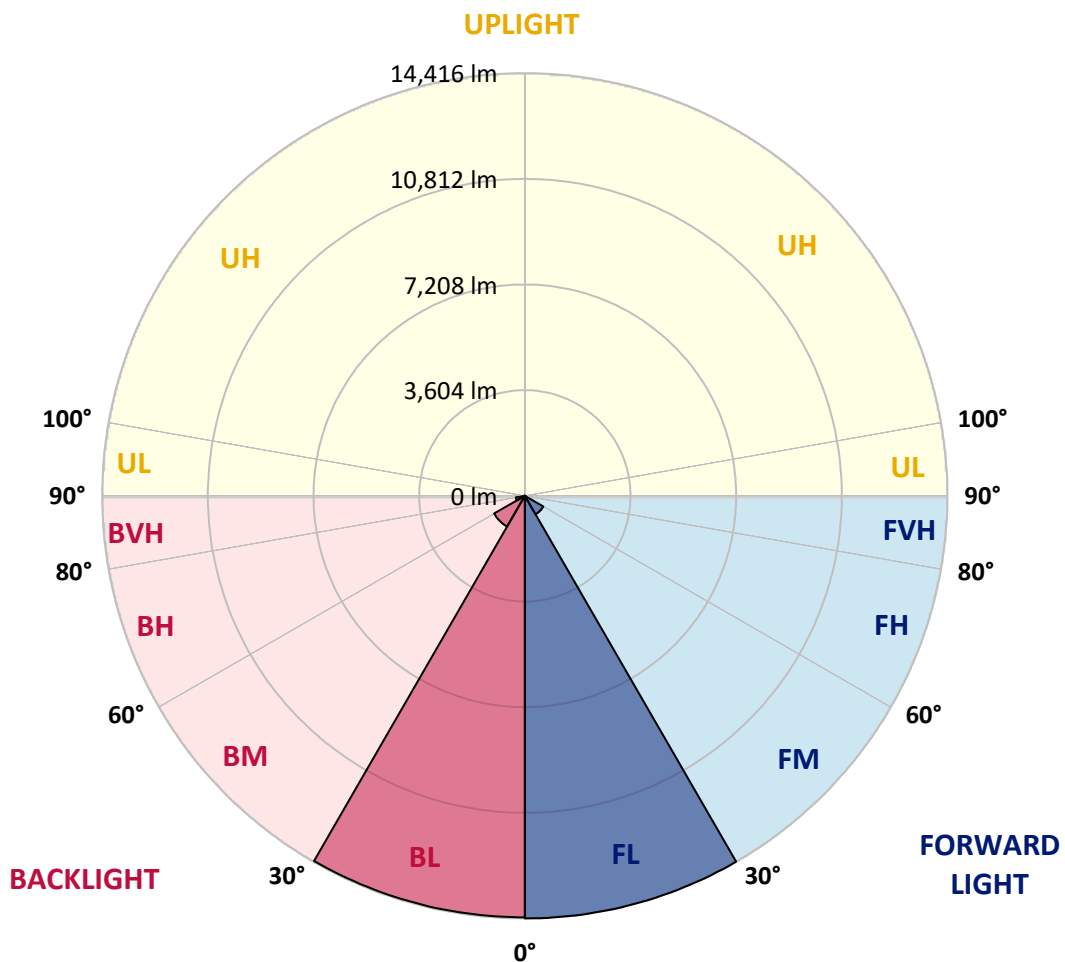


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14416.2	46.3			
FM (30°-60°)	727.5	2.3			
FH (60°-80°)	34.3	0.1			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	14382.1	46.2	B5		
BM (30°-60°)	1210.5	3.9	B2/2500		
BH (60°-80°)	312.5	1.0	B1/500		G0/660
BVH (80°-90°)	38.0	0.1			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°	309200.0	309200.0	309200.0	309200.0	309200.0	309200.0	309200.0	309200.0	309200.0	309200.0
1°	305497.7	304565.4	302158.3	303870.4	305375.7	304938.3	304907.8	304745.1	304517.9	306301.2
2°	293285.8	292682.4	289122.5	290590.5	292729.8	291170.3	292146.7	291288.9	291305.9	293435.0
3°	272699.8	273028.7	267349.9	270018.1	272991.4	269211.2	270384.3	272588.0	270279.2	269584.2
4°	245943.5	243088.9	239986.7	242699.0	243468.6	241268.3	243431.3	246130.0	242922.7	243065.1
5°	215396.8	213288.0	209616.3	211291.1	209382.4	210077.4	213318.5	214430.5	212192.9	209375.6
6°	183988.9	182490.4	177899.9	180313.8	179635.7	179242.5	183334.6	179944.3	181164.8	179459.5
7°	153042.1	150241.7	147987.2	150299.4	150448.5	149265.3	154577.9	153960.9	151740.3	151224.9
8°	126797.7	124004.1	122095.4	123817.6	124943.2	123085.3	125584.0	127224.9	125489.1	125645.0
9°	102268.8	101777.2	99122.6	101373.8	102597.7	100607.5	103374.0	103967.3	102343.4	103133.3
10°	83971.3	83398.3	81279.4	82191.4	84218.8	81845.6	84500.2	84693.4	83398.3	83767.9
12.5°	51892.1	51661.6	51604.0	51736.2	51709.1	52129.5	52807.5	52034.5	51932.8	50654.7
15°	33540.4	33882.8	33530.2	34208.3	34306.6	34703.2	34289.6	33665.8	32475.8	31885.9
17.5°	20931.8	21369.1	21972.6	22966.0	23959.3	24074.6	23525.4	22793.1	22216.7	21586.1
20°	12042.4	12256.0	12164.4	13354.4	15924.3	16622.7	15914.1	15144.5	14449.5	13812.1
22.5°	7482.4	7404.4	7546.8	7946.9	8784.3	10943.9	10364.2	9594.6	9089.4	8563.9
25°	4587.1	4671.9	4617.6	4838.0	5214.3	6129.7	6261.9	5929.7	5672.0	5400.8
27.5°	2953.0	2953.0	2976.7	3098.7	3356.4	3325.9	4031.1	3773.4	3634.4	3502.2
30°	2051.1	2057.9	2057.9	2129.1	2186.8	2085.0	2268.1	2600.4	2536.0	2434.2
32.5°	1522.3	1542.6	1559.5	1596.8	1549.4	1440.9	1485.0	1871.5	1834.2	1796.9
35°	1159.5	1176.4	1217.1	1237.5	1169.7	1101.9	1061.2	1376.5	1393.4	1383.2
37.5°	844.2	854.4	928.9	1006.9	928.9	867.9	844.2	1057.8	1139.1	1129.0
40°	647.5	650.9	664.5	752.6	752.6	705.2	712.0	789.9	932.3	932.3
42.5°	556.0	556.0	569.6	556.0	559.4	610.3	627.2	637.4	789.9	789.9
45°	481.4	481.4	488.2	454.3	420.4	525.5	539.1	542.5	664.5	681.5
47.5°	403.4	403.4	417.0	372.9	356.0	417.0	454.3	464.5	573.0	586.5
50°	298.3	301.7	342.4	305.1	315.3	322.1	393.3	400.1	484.8	515.3
52.5°	200.0	200.0	206.8	237.3	274.6	264.4	318.7	342.4	386.5	427.2
55°	162.7	162.7	159.3	152.6	203.4	220.4	233.9	284.8	315.3	366.2
57.5°	111.9	118.7	108.5	125.4	132.2	166.1	176.3	223.8	240.7	308.5
60°	13.6	17.0	23.7	91.5	88.1	111.9	132.2	176.3	196.6	237.3
62.5°	3.4	3.4	6.8	17.0	61.0	74.6	105.1	122.1	142.4	183.1
65°	0.0	0.0	3.4	6.8	13.6	40.7	54.2	71.2	101.7	128.8
67.5°	0.0	0.0	3.4	6.8	6.8	17.0	27.1	44.1	54.2	94.9
70°	0.0	0.0	3.4	6.8	6.8	13.6	17.0	20.3	37.3	50.9
72.5°	0.0	0.0	3.4	6.8	10.2	13.6	17.0	17.0	17.0	33.9
75°	0.0	0.0	3.4	6.8	10.2	13.6	17.0	17.0	13.6	13.6
77.5°	0.0	0.0	3.4	6.8	13.6	17.0	20.3	17.0	10.2	10.2
80°	0.0	0.0	3.4	10.2	17.0	23.7	27.1	20.3	10.2	6.8
82.5°	0.0	0.0	6.8	13.6	20.3	27.1	37.3	30.5	13.6	6.8
85°	0.0	0.0	3.4	10.2	20.3	27.1	54.2	37.3	17.0	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.8	20.3	13.6	6.8	3.4
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°
309200.0	0°	309200.0	309200.0	309200.0	309200.0	309200.0	309200.0	309200.0	309200.0
304243.3	1°	306369.0	306582.6	305884.2	306965.7	306586.0	304362.0	303626.3	302755.0
292184.0	2°	291288.9	292377.2	292431.5	293631.6	293614.7	291021.1	290217.6	291699.2
270994.5	3°	270174.1	271442.0	270299.5	272432.0	271791.2	268645.0	267828.0	269509.6
244190.7	4°	243461.8	243221.1	242827.8	241614.1	243109.2	240963.1	239345.9	241627.6
213111.7	5°	212684.5	212148.9	211382.6	211023.3	212135.3	210762.2	207436.3	210769.0
182544.6	6°	182768.4	180463.0	180351.1	180151.1	180263.0	176418.3	176648.9	179130.6
149451.8	7°	151031.7	151455.5	150590.9	151977.6	150919.8	148316.0	147312.5	149926.4
126329.9	8°	125448.4	124912.7	124251.6	126323.1	124488.9	122780.2	121610.5	123675.2
103262.2	9°	103068.9	102143.4	101472.1	101367.0	101651.8	98444.5	99095.5	100658.4
83971.3	10°	84001.8	82482.9	82852.5	82950.8	82638.9	80536.9	80557.2	81096.3
51502.2	12.5°	51319.2	50573.3	50759.8	50861.5	51495.5	50756.4	49712.2	48959.5
32472.4	15°	32255.4	31719.8	32814.8	33550.5	33401.4	32743.6	32252.1	31570.6
21586.1	17.5°	21386.1	22087.9	22091.3	22762.6	22830.4	22172.6	21792.9	21179.3
14039.3	20°	13988.4	14280.0	14886.9	15361.5	15636.1	15134.4	14680.1	14259.7
8753.8	22.5°	8753.8	9262.3	9642.1	10259.1	10510.0	10143.8	9821.7	9479.3
5465.2	25°	5373.6	5736.4	6051.7	6587.4	6929.8	6753.5	6458.5	6217.8
3529.3	27.5°	3583.6	3736.1	3892.1	4261.6	4617.6	4519.3	4400.6	4254.8
2488.5	30°	2525.8	2539.3	2705.5	2912.3	3149.6	3210.6	3156.4	3081.8
1827.4	32.5°	1861.3	1915.5	1993.5	2122.3	2281.7	2427.5	2400.3	2366.4
1396.8	35°	1437.5	1518.9	1583.3	1681.6	1766.4	1905.4	1929.1	1918.9
1149.3	37.5°	1173.0	1244.2	1308.7	1366.3	1437.5	1532.4	1607.0	1610.4
949.3	40°	973.0	1037.4	1122.2	1166.3	1217.1	1288.3	1379.9	1386.6
803.5	42.5°	820.5	881.5	966.2	1020.5	1057.8	1125.6	1217.1	1230.7
688.2	45°	705.2	742.5	830.6	895.0	932.3	976.4	1074.7	1088.3
593.3	47.5°	613.6	650.9	705.2	796.7	830.6	871.3	949.3	973.0
525.5	50°	539.1	576.4	623.8	705.2	756.0	789.9	854.4	888.3
457.7	52.5°	478.0	515.3	566.2	630.6	688.2	718.7	779.8	823.8
372.9	55°	400.1	464.5	501.8	559.4	637.4	664.5	712.0	769.6
325.5	57.5°	349.2	403.4	457.7	505.2	583.1	617.0	664.5	718.7
257.7	60°	295.0	345.8	410.2	450.9	525.5	569.6	620.4	671.3
196.6	62.5°	233.9	301.7	345.8	403.4	474.6	532.3	573.0	623.8
152.6	65°	172.9	247.5	298.3	359.4	427.2	488.2	522.1	576.4
108.5	67.5°	125.4	193.2	254.3	311.9	376.3	437.4	471.3	518.7
67.8	70°	98.3	142.4	210.2	261.1	328.9	379.7	417.0	447.5
44.1	72.5°	57.6	108.5	169.5	227.2	288.2	322.1	349.2	376.3
20.3	75°	37.3	84.8	139.0	189.9	233.9	264.4	288.2	311.9
10.2	77.5°	23.7	61.0	111.9	159.3	179.7	217.0	237.3	250.9
6.8	80°	13.6	47.5	98.3	128.8	145.8	169.5	189.9	206.8
6.8	82.5°	10.2	40.7	81.4	108.5	108.5	135.6	145.8	145.8
3.4	85°	6.8	33.9	64.4	101.7	81.4	101.7	94.9	94.9
3.4	87.5°	6.8	23.7	30.5	44.1	37.3	44.1	44.1	50.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
309200.0  
299303.6  
285423.7  
262040.7  
233368.8  
201988.1  
171936.3  
142816.9  
117779.5  
95776.4  
77428.0  
48501.8  
31221.4  
21026.7  
14113.9  
9296.2  
6078.8  
4170.1  
3030.9  
2339.3  
1885.0  
1586.7  
1376.5  
1220.5  
1084.9  
976.4  
891.7  
823.8  
773.0  
722.1  
684.8  
647.5  
586.5  
522.1  
457.7  
383.1  
311.9  
244.1  
186.5  
135.6  
91.5  
50.9  
0.0

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