

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: P637136

Luminaire Tested: **IFLD-L-SA7C-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637136
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-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: 44086.2 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

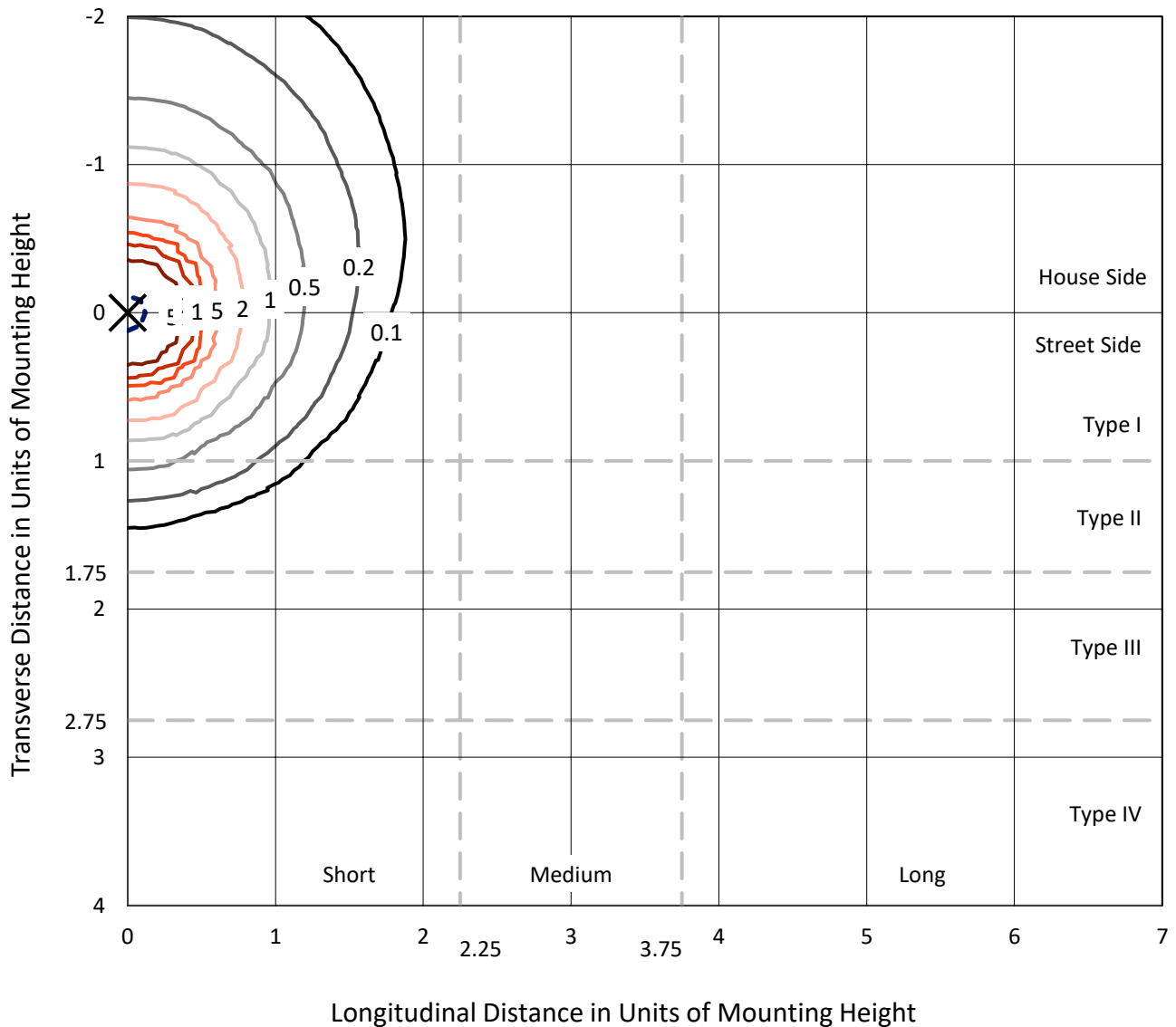
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

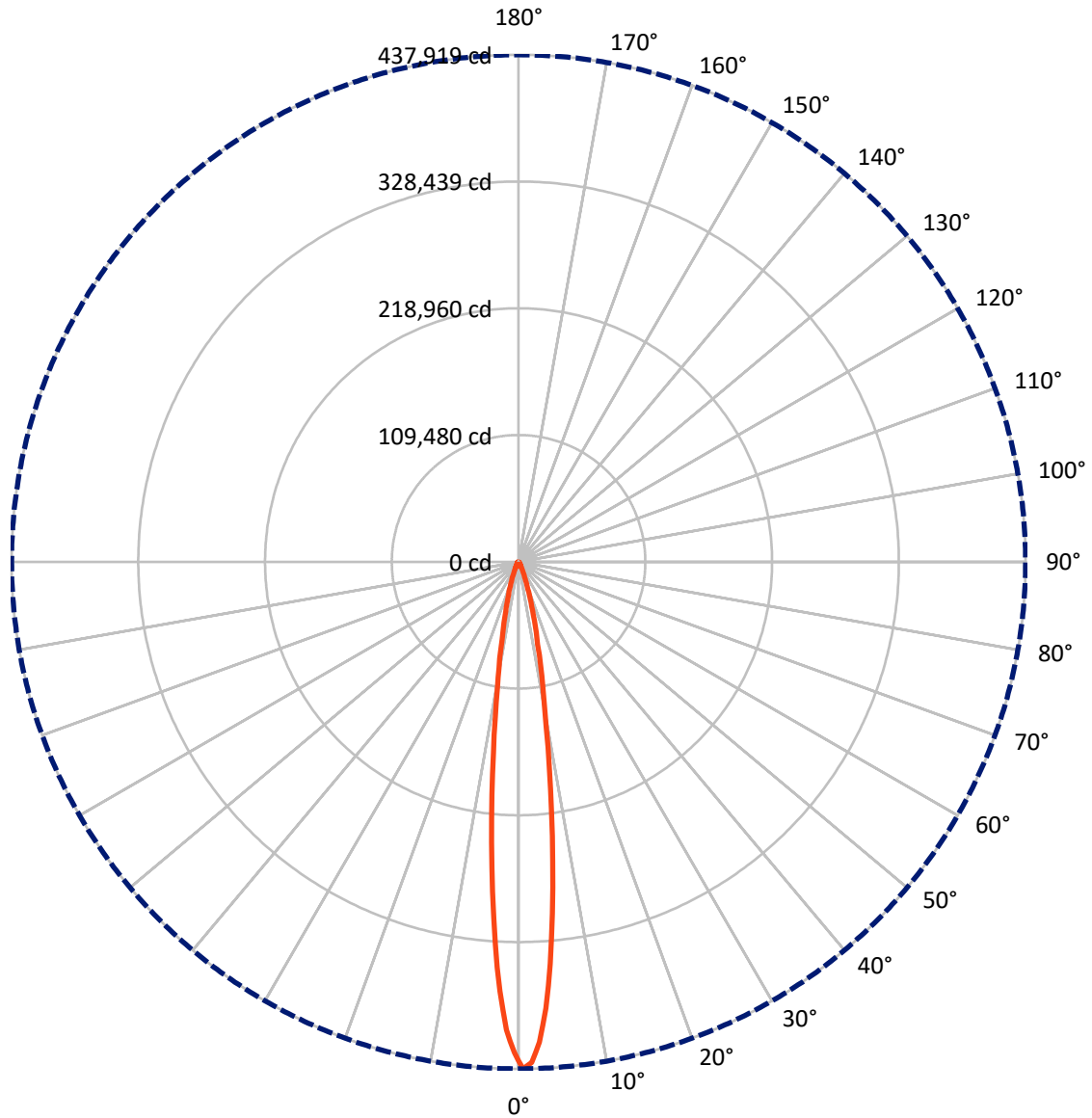
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1094.8 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
House Side	Lumens	22580.2	0.0	22580.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	21506.1	0.0	21506.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	44086.2	0.0	44086.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22256.0	50.5
10°-20°	14248.2	32.3
20°-30°	4282.7	9.7
30°-40°	1394.5	3.2
40°-50°	811.3	1.8
50°-60°	538.9	1.2
60°-70°	324.4	0.7
70°-80°	166.7	0.4
80°-90°	63.3	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°	44086.2	100.0
0°-180°	44086.2	100.0

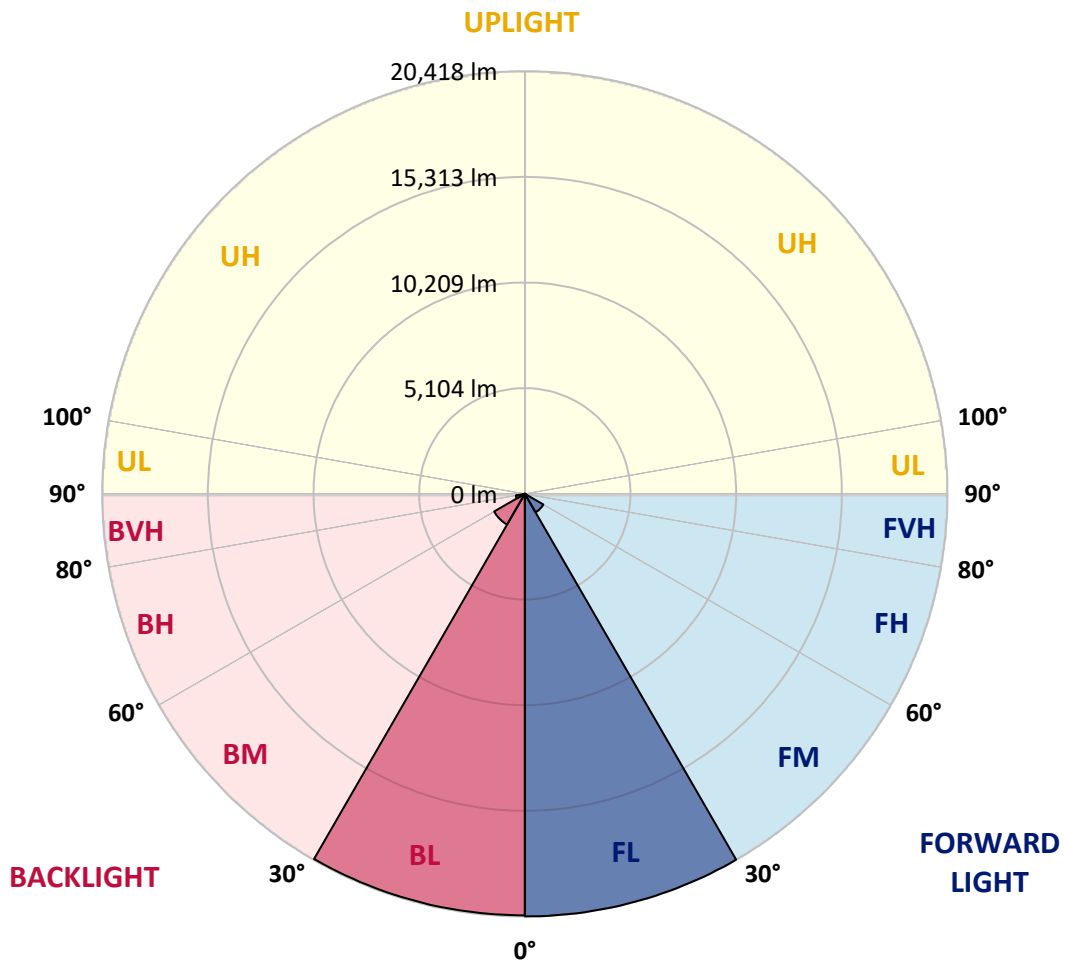


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20417.7	46.3			
FM (30°-60°)	1030.3	2.3			
FH (60°-80°)	48.5	0.1			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	20369.3	46.2	B5		
BM (30°-60°)	1714.4	3.9	B2/2500		
BH (60°-80°)	442.6	1.0	B1/500		G0/660
BVH (80°-90°)	53.8	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°	437919.2	437919.2	437919.2	437919.2	437919.2	437919.2	437919.2	437919.2	437919.2	437919.2
1°	432675.7	431355.3	427946.1	430370.9	432502.9	431883.4	431840.2	431609.7	431288.0	433813.7
2°	415380.0	414525.3	409483.6	411562.7	414592.6	412383.8	413766.7	412551.8	412575.8	415591.3
3°	386224.2	386689.9	378647.1	382426.0	386637.1	381283.2	382944.6	386065.7	382795.7	381811.4
4°	348329.2	344286.2	339892.6	343734.0	344824.0	341707.7	344771.1	348593.3	344050.9	344252.6
5°	305065.9	302079.3	296879.1	299251.1	296547.7	297532.1	302122.5	303697.5	300528.3	296538.1
6°	260583.1	258460.7	251959.2	255378.0	254417.7	253860.7	259656.3	254854.6	256583.3	254168.0
7°	216753.2	212787.0	209593.9	212868.6	213079.9	211404.1	218928.4	218054.5	214909.4	214179.5
8°	179583.3	175626.7	172923.4	175362.6	176956.8	174325.5	177864.3	180188.3	177729.9	177950.7
9°	144843.1	144146.8	140387.1	143575.4	145308.8	142490.2	146408.4	147248.7	144948.7	146067.5
10°	118928.3	118116.8	115115.8	116407.4	119278.8	115917.7	119677.4	119951.1	118116.8	118640.2
12.5°	73494.7	73168.2	73086.6	73273.8	73235.4	73830.8	74791.2	73696.4	73552.3	71742.1
15°	47503.1	47988.1	47488.7	48449.1	48588.3	49150.1	48564.3	47680.8	45995.4	45159.9
17.5°	29645.7	30265.1	31119.8	32526.7	33933.6	34096.8	33318.9	32281.8	31465.5	30572.4
20°	17055.6	17358.1	17228.5	18913.9	22553.6	23542.7	22539.1	21449.2	20464.8	19562.1
22.5°	10597.3	10486.9	10688.6	11255.2	12441.2	15499.9	14678.8	13588.8	12873.3	12129.1
25°	6496.7	6616.7	6539.9	6852.0	7385.0	8681.5	8868.7	8398.2	8033.2	7649.1
27.5°	4182.3	4182.3	4215.9	4388.7	4753.7	4710.5	5709.2	5344.3	5147.4	4960.1
30°	2905.0	2914.6	2914.6	3015.5	3097.1	2953.0	3212.3	3682.9	3591.7	3447.6
32.5°	2156.0	2184.8	2208.8	2261.6	2194.4	2040.7	2103.1	2650.5	2597.7	2544.9
35°	1642.2	1666.2	1723.8	1752.6	1656.6	1560.6	1502.9	1949.5	1973.5	1959.1
37.5°	1195.6	1210.0	1315.7	1426.1	1315.7	1229.2	1195.6	1498.1	1613.4	1599.0
40°	917.1	921.9	941.1	1066.0	1066.0	998.8	1008.4	1118.8	1320.5	1320.5
42.5°	787.5	787.5	806.7	787.5	792.3	864.3	888.3	902.7	1118.8	1118.8
45°	681.8	681.8	691.4	643.4	595.4	744.3	763.5	768.3	941.1	965.1
47.5°	571.4	571.4	590.6	528.2	504.2	590.6	643.4	657.8	811.5	830.7
50°	422.5	427.4	485.0	432.2	446.6	456.2	557.0	566.6	686.6	729.9
52.5°	283.3	283.3	292.9	336.1	388.9	374.5	451.4	485.0	547.4	605.0
55°	230.5	230.5	225.7	216.1	288.1	312.1	331.3	403.3	446.6	518.6
57.5°	158.5	168.1	153.7	177.7	187.3	235.3	249.7	316.9	340.9	437.0
60°	19.2	24.0	33.6	129.6	124.8	158.5	187.3	249.7	278.5	336.1
62.5°	4.8	4.8	9.6	24.0	86.4	105.6	148.9	172.9	201.7	259.3
65°	0.0	0.0	4.8	9.6	19.2	57.6	76.8	100.8	144.1	182.5
67.5°	0.0	0.0	4.8	9.6	9.6	24.0	38.4	62.4	76.8	134.4
70°	0.0	0.0	4.8	9.6	9.6	19.2	24.0	28.8	52.8	72.0
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	24.0	24.0	48.0
75°	0.0	0.0	4.8	9.6	14.4	19.2	24.0	24.0	19.2	19.2
77.5°	0.0	0.0	4.8	9.6	19.2	24.0	28.8	24.0	14.4	14.4
80°	0.0	0.0	4.8	14.4	24.0	33.6	38.4	28.8	14.4	9.6
82.5°	0.0	0.0	9.6	19.2	28.8	38.4	52.8	43.2	19.2	9.6
85°	0.0	0.0	4.8	14.4	28.8	38.4	76.8	52.8	24.0	4.8
87.5°	0.0	0.0	0.0	4.8	4.8	9.6	28.8	19.2	9.6	4.8
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°
437919.2	0°	437919.2	437919.2	437919.2	437919.2	437919.2	437919.2	437919.2	437919.2
430899.1	1°	433909.8	434212.3	433223.1	434754.9	434217.1	431067.2	430025.2	428791.2
413819.5	2°	412551.8	414093.2	414170.0	415869.8	415845.8	412172.5	411034.5	413132.8
383808.9	3°	382646.9	384442.7	382824.6	385844.8	384937.3	380481.3	379324.1	381705.8
345846.7	4°	344814.4	344473.4	343916.4	342197.4	344315.0	341275.5	338985.1	342216.6
301829.6	5°	301224.6	300465.9	299380.7	298871.8	300446.7	298502.0	293791.6	298511.6
258537.5	6°	258854.5	255589.3	255430.8	255147.5	255306.0	249860.9	250187.4	253702.2
211668.2	7°	213905.8	214506.0	213281.6	215245.5	213747.3	210059.6	208638.3	212340.5
178920.7	8°	177672.2	176913.6	175977.2	178911.1	176313.4	173893.3	172236.7	175160.9
146250.0	9°	145976.3	144665.4	143714.7	143565.8	143969.2	139426.8	140348.7	142562.3
118928.3	10°	118971.5	116820.4	117343.8	117483.0	117041.3	114064.2	114093.0	114856.5
72942.5	12.5°	72683.2	71626.8	71890.9	72035.0	72932.9	71886.1	70407.2	69341.2
45990.6	15°	45683.3	44924.6	46475.6	47517.6	47306.3	46374.7	45678.5	44713.4
30572.4	17.5°	30289.1	31283.0	31287.8	32238.6	32334.6	31403.1	30865.3	29996.2
19883.8	20°	19811.8	20224.7	21084.2	21756.5	22145.4	21434.8	20791.3	20195.9
12398.0	22.5°	12398.0	13118.2	13656.0	14529.9	14885.2	14366.7	13910.5	13425.5
7740.3	25°	7610.7	8124.5	8571.0	9329.7	9814.7	9565.0	9147.2	8806.3
4998.6	27.5°	5075.4	5291.5	5512.3	6035.7	6539.9	6400.7	6232.6	6026.1
3524.4	30°	3577.3	3596.5	3831.8	4124.7	4460.8	4547.2	4470.4	4364.7
2588.1	32.5°	2636.1	2713.0	2823.4	3005.9	3231.5	3438.0	3399.6	3351.6
1978.3	35°	2035.9	2151.2	2242.4	2381.6	2501.7	2698.6	2732.2	2717.8
1627.8	37.5°	1661.4	1762.2	1853.5	1935.1	2035.9	2170.4	2276.0	2280.8
1344.5	40°	1378.1	1469.3	1589.4	1651.8	1723.8	1824.6	1954.3	1963.9
1138.0	42.5°	1162.0	1248.4	1368.5	1445.3	1498.1	1594.2	1723.8	1743.0
974.7	45°	998.8	1051.6	1176.4	1267.6	1320.5	1382.9	1522.1	1541.3
840.3	47.5°	869.1	921.9	998.8	1128.4	1176.4	1234.0	1344.5	1378.1
744.3	50°	763.5	816.3	883.5	998.8	1070.8	1118.8	1210.0	1258.0
648.2	52.5°	677.0	729.9	801.9	893.1	974.7	1018.0	1104.4	1166.8
528.2	55°	566.6	657.8	710.7	792.3	902.7	941.1	1008.4	1090.0
461.0	57.5°	494.6	571.4	648.2	715.5	825.9	873.9	941.1	1018.0
364.9	60°	417.7	489.8	581.0	638.6	744.3	806.7	878.7	950.7
278.5	62.5°	331.3	427.4	489.8	571.4	672.2	753.9	811.5	883.5
216.1	65°	244.9	350.5	422.5	509.0	605.0	691.4	739.5	816.3
153.7	67.5°	177.7	273.7	360.1	441.8	533.0	619.4	667.4	734.7
96.0	70°	139.2	201.7	297.7	369.7	465.8	537.8	590.6	633.8
62.4	72.5°	81.6	153.7	240.1	321.7	408.1	456.2	494.6	533.0
28.8	75°	52.8	120.0	196.9	268.9	331.3	374.5	408.1	441.8
14.4	77.5°	33.6	86.4	158.5	225.7	254.5	307.3	336.1	355.3
9.6	80°	19.2	67.2	139.2	182.5	206.5	240.1	268.9	292.9
9.6	82.5°	14.4	57.6	115.2	153.7	153.7	192.1	206.5	206.5
4.8	85°	9.6	48.0	91.2	144.1	115.2	144.1	134.4	134.4
4.8	87.5°	9.6	33.6	43.2	62.4	52.8	62.4	62.4	72.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
437919.2
423903.0
404244.9
371127.6
330519.7
286075.2
243513.0
202271.3
166810.8
135647.8
109661.1
68693.0
44218.8
29780.1
19989.4
13166.2
8609.4
5906.1
4292.7
3313.2
2669.7
2247.2
1949.5
1728.6
1536.5
1382.9
1262.8
1166.8
1094.8
1022.8
969.9
917.1
830.7
739.5
648.2
542.6
441.8
345.7
264.1
192.1
129.6
72.0
0.0

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