

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: P637139

Luminaire Tested: **IFLD-L-SA8A-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637139
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34067.2 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

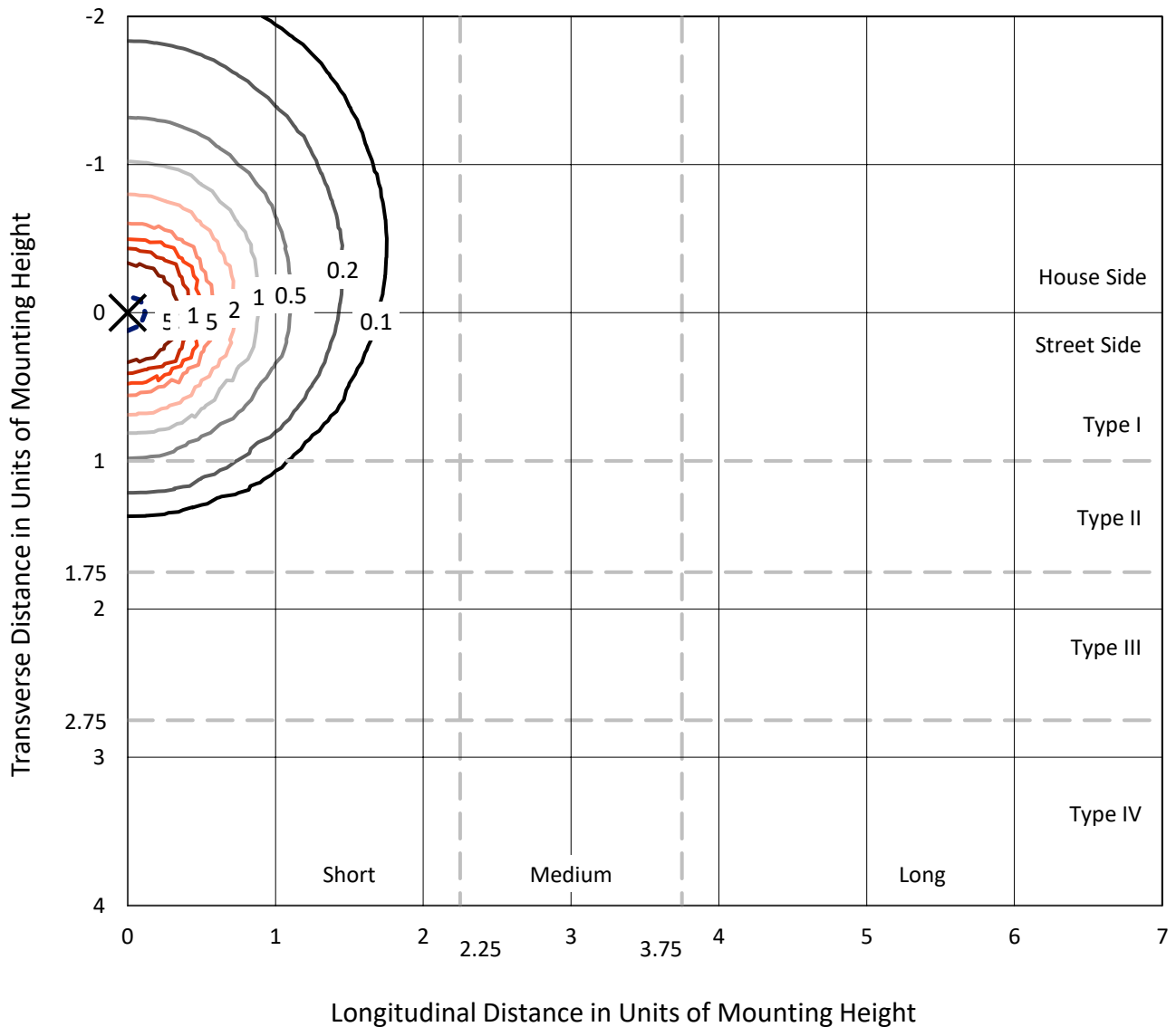
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

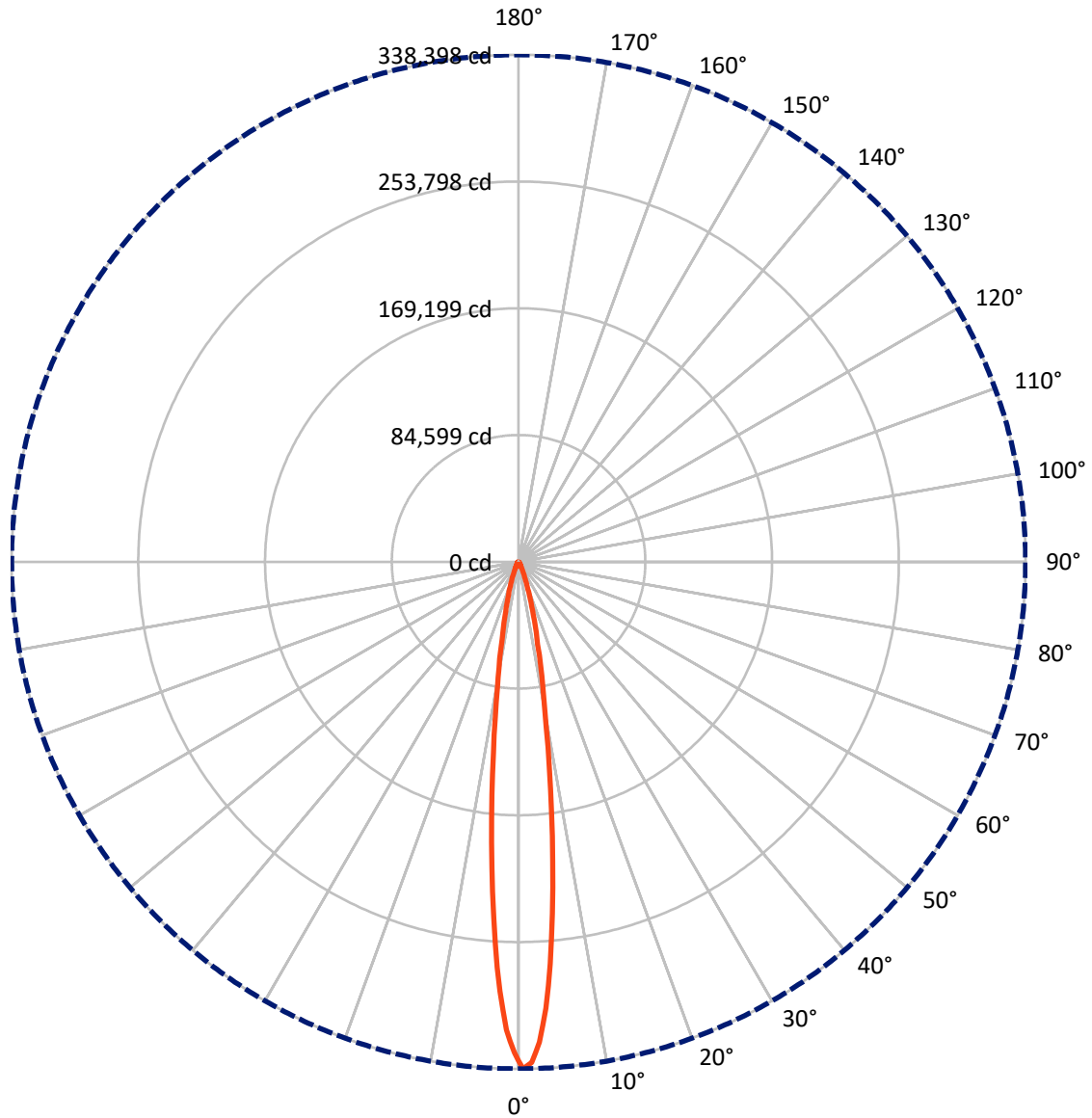
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 846 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	17448.6	0.0	17448.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	16618.6	0.0	16618.6
	% Fixture	48.8	0.0	48.8
Total	Lumens	34067.2	0.0	34067.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17198.1	50.5
10°-20°	11010.2	32.3
20°-30°	3309.4	9.7
30°-40°	1077.6	3.2
40°-50°	627.0	1.8
50°-60°	416.4	1.2
60°-70°	250.7	0.7
70°-80°	128.8	0.4
80°-90°	48.9	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°	34067.2	100.0
0°-180°	34067.2	100.0

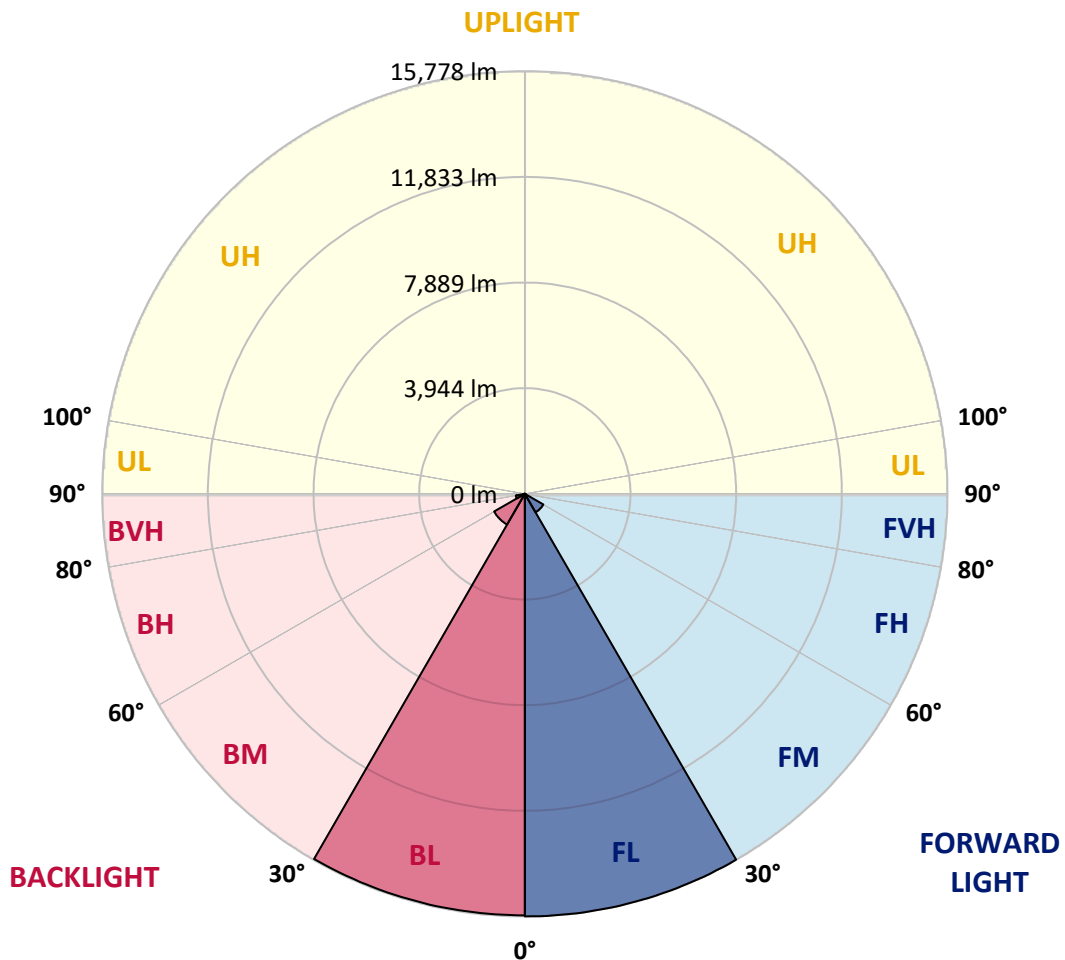


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15777.6	46.3			
FM (30°-60°)	796.2	2.3			
FH (60°-80°)	37.5	0.1			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	15740.2	46.2	B5		
BM (30°-60°)	1324.8	3.9	B2/2500		
BH (60°-80°)	342.0	1.0	B1/500		G0/660
BVH (80°-90°)	41.6	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°	338397.8	338397.8	338397.8	338397.8	338397.8	338397.8	338397.8	338397.8	338397.8	338397.8
1°	334346.0	333325.6	330691.2	332564.9	334212.4	333733.7	333700.3	333522.2	333273.6	335225.3
2°	320980.9	320320.4	316424.4	318031.1	320372.4	318665.6	319734.2	318795.4	318814.0	321144.1
3°	298451.0	298810.9	292595.9	295516.0	298770.1	294632.9	295916.7	298328.5	295801.7	295041.0
4°	269168.0	266043.8	262648.7	265617.1	266459.4	264051.3	266418.5	269372.1	265862.0	266017.8
5°	235736.7	233428.8	229410.4	231243.4	229154.4	229915.0	233462.2	234679.3	232230.4	229147.0
6°	201363.0	199723.0	194699.0	197340.9	196598.8	196168.4	200646.9	196936.4	198272.2	196405.9
7°	167493.9	164429.1	161961.6	164492.2	164655.4	163360.5	169174.8	168499.5	166069.1	165505.1
8°	138771.3	135713.8	133624.8	135509.8	136741.6	134708.3	137442.9	139238.8	137339.0	137509.7
9°	111926.1	111388.1	108482.8	110946.5	112286.0	110107.9	113135.7	113785.0	112007.7	112872.2
10°	91900.7	91273.6	88954.6	89952.7	92171.6	89574.2	92479.5	92691.0	91273.6	91678.1
12.5°	56792.3	56540.0	56476.9	56621.6	56592.0	57052.1	57794.1	56948.2	56836.8	55438.0
15°	36707.6	37082.4	36696.5	37438.6	37546.2	37980.3	37527.6	36844.9	35542.5	34896.9
17.5°	22908.4	23387.0	24047.5	25134.7	26221.8	26348.0	25746.9	24945.4	24314.7	23624.5
20°	13179.6	13413.3	13313.1	14615.5	17428.0	18192.4	17416.9	16574.6	15814.0	15116.4
22.5°	8189.0	8103.6	8259.5	8697.3	9613.8	11977.4	11342.9	10500.6	9947.7	9372.6
25°	5020.3	5113.0	5053.6	5294.8	5706.7	6708.5	6853.2	6489.6	6207.6	5910.8
27.5°	3231.8	3231.8	3257.8	3391.4	3673.4	3640.0	4411.7	4129.7	3977.6	3832.9
30°	2244.8	2252.3	2252.3	2330.2	2393.2	2281.9	2482.3	2845.9	2775.4	2664.1
32.5°	1666.0	1688.3	1706.8	1747.6	1695.7	1576.9	1625.2	2048.2	2007.4	1966.5
35°	1269.0	1287.5	1332.1	1354.3	1280.1	1205.9	1161.4	1506.4	1525.0	1513.9
37.5°	923.9	935.0	1016.7	1102.0	1016.7	949.9	923.9	1157.7	1246.7	1235.6
40°	708.7	712.4	727.3	823.7	823.7	771.8	779.2	864.5	1020.4	1020.4
42.5°	608.5	608.5	623.4	608.5	612.2	667.9	686.4	697.6	864.5	864.5
45°	526.9	526.9	534.3	497.2	460.1	575.1	590.0	593.7	727.3	745.8
47.5°	441.5	441.5	456.4	408.2	389.6	456.4	497.2	508.3	627.1	641.9
50°	326.5	330.2	374.8	333.9	345.1	352.5	430.4	437.8	530.6	564.0
52.5°	218.9	218.9	226.3	259.7	300.5	289.4	348.8	374.8	423.0	467.5
55°	178.1	178.1	174.4	167.0	222.6	241.2	256.0	311.7	345.1	400.7
57.5°	122.4	129.9	118.7	137.3	144.7	181.8	192.9	244.9	263.4	337.7
60°	14.8	18.6	26.0	100.2	96.5	122.4	144.7	192.9	215.2	259.7
62.5°	3.7	3.7	7.4	18.6	66.8	81.6	115.0	133.6	155.8	200.4
65°	0.0	0.0	3.7	7.4	14.8	44.5	59.4	77.9	111.3	141.0
67.5°	0.0	0.0	3.7	7.4	7.4	18.6	29.7	48.2	59.4	103.9
70°	0.0	0.0	3.7	7.4	7.4	14.8	18.6	22.3	40.8	55.7
72.5°	0.0	0.0	3.7	7.4	11.1	14.8	18.6	18.6	18.6	37.1
75°	0.0	0.0	3.7	7.4	11.1	14.8	18.6	18.6	14.8	14.8
77.5°	0.0	0.0	3.7	7.4	14.8	18.6	22.3	18.6	11.1	11.1
80°	0.0	0.0	3.7	11.1	18.6	26.0	29.7	22.3	11.1	7.4
82.5°	0.0	0.0	7.4	14.8	22.3	29.7	40.8	33.4	14.8	7.4
85°	0.0	0.0	3.7	11.1	22.3	29.7	59.4	40.8	18.6	3.7
87.5°	0.0	0.0	0.0	3.7	3.7	7.4	22.3	14.8	7.4	3.7
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°
338397.8	0°	338397.8	338397.8	338397.8	338397.8	338397.8	338397.8	338397.8	338397.8
332973.1	1°	335299.6	335533.3	334769.0	335952.6	335537.0	333103.0	332297.8	331344.2
319775.0	2°	318795.4	319986.5	320045.8	321359.3	321340.8	318502.3	317622.9	319244.4
296584.6	3°	295686.7	297074.4	295824.0	298157.8	297456.6	294013.2	293119.0	294959.4
267249.7	4°	266451.9	266188.5	265758.1	264429.7	266066.1	263717.3	261947.4	264444.6
233235.9	5°	232768.4	232182.1	231343.6	230950.2	232167.3	230664.5	227024.6	230672.0
199782.4	6°	200027.3	197504.1	197381.7	197162.8	197285.2	193077.6	193329.9	196045.9
163564.6	7°	165293.6	165757.4	164811.3	166328.9	165171.2	162321.6	161223.3	164084.0
138259.2	8°	137294.5	136708.2	135984.7	138251.8	136244.4	134374.4	133094.2	135353.9
113013.2	9°	112801.7	111788.8	111054.1	110939.1	111250.8	107740.7	108453.1	110163.6
91900.7	10°	91934.1	90271.8	90676.3	90783.9	90442.5	88142.0	88164.3	88754.2
56365.6	12.5°	56165.3	55349.0	55553.0	55664.3	56358.2	55549.3	54406.5	53582.8
35538.8	15°	35301.3	34715.1	35913.6	36718.7	36555.5	35835.6	35297.6	34551.8
23624.5	17.5°	23405.6	24173.7	24177.4	24912.0	24986.2	24266.4	23850.8	23179.3
15365.0	20°	15309.4	15628.5	16292.6	16812.1	17112.6	16563.5	16066.3	15606.2
9580.4	22.5°	9580.4	10137.0	10552.6	11227.9	11502.4	11101.7	10749.2	10374.4
5981.3	25°	5881.1	6278.1	6623.2	7209.4	7584.2	7391.2	7068.4	6805.0
3862.6	27.5°	3922.0	4088.9	4259.6	4664.0	5053.6	4946.0	4816.2	4656.6
2723.5	30°	2764.3	2779.1	2960.9	3187.3	3447.0	3513.8	3454.4	3372.8
1999.9	32.5°	2037.0	2096.4	2181.8	2322.7	2497.1	2656.7	2627.0	2589.9
1528.7	35°	1573.2	1662.3	1732.8	1840.4	1933.2	2085.3	2111.3	2100.1
1257.8	37.5°	1283.8	1361.7	1432.2	1495.3	1573.2	1677.1	1758.8	1762.5
1038.9	40°	1064.9	1135.4	1228.2	1276.4	1332.1	1410.0	1510.2	1517.6
879.4	42.5°	897.9	964.7	1057.5	1116.8	1157.7	1231.9	1332.1	1346.9
753.2	45°	771.8	812.6	909.1	979.6	1020.4	1068.6	1176.2	1191.1
649.3	47.5°	671.6	712.4	771.8	872.0	909.1	953.6	1038.9	1064.9
575.1	50°	590.0	630.8	682.7	771.8	827.4	864.5	935.0	972.1
500.9	52.5°	523.2	564.0	619.6	690.1	753.2	786.6	853.4	901.6
408.2	55°	437.8	508.3	549.1	612.2	697.6	727.3	779.2	842.3
356.2	57.5°	382.2	441.5	500.9	552.9	638.2	675.3	727.3	786.6
282.0	60°	322.8	378.5	449.0	493.5	575.1	623.4	679.0	734.7
215.2	62.5°	256.0	330.2	378.5	441.5	519.5	582.5	627.1	682.7
167.0	65°	189.2	270.9	326.5	393.3	467.5	534.3	571.4	630.8
118.7	67.5°	137.3	211.5	278.3	341.4	411.9	478.6	515.8	567.7
74.2	70°	107.6	155.8	230.0	285.7	359.9	415.6	456.4	489.8
48.2	72.5°	63.1	118.7	185.5	248.6	315.4	352.5	382.2	411.9
22.3	75°	40.8	92.8	152.1	207.8	256.0	289.4	315.4	341.4
11.1	77.5°	26.0	66.8	122.4	174.4	196.7	237.5	259.7	274.6
7.4	80°	14.8	51.9	107.6	141.0	159.5	185.5	207.8	226.3
7.4	82.5°	11.1	44.5	89.1	118.7	118.7	148.4	159.5	159.5
3.7	85°	7.4	37.1	70.5	111.3	89.1	111.3	103.9	103.9
3.7	87.5°	7.4	26.0	33.4	48.2	40.8	48.2	48.2	55.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
338397.8
327567.0
312376.3
286785.3
255405.9
221061.9
188172.3
156303.2
128901.4
104820.5
84739.5
53081.9
34169.6
23012.3
15446.7
10174.1
6652.9
4563.9
3317.2
2560.2
2063.0
1736.5
1506.4
1335.8
1187.3
1068.6
975.9
901.6
846.0
790.3
749.5
708.7
641.9
571.4
500.9
419.3
341.4
267.2
204.1
148.4
100.2
55.7
0.0

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