

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: P637228

Luminaire Tested: **IFLD-L-SA8C-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637228
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37037.6 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

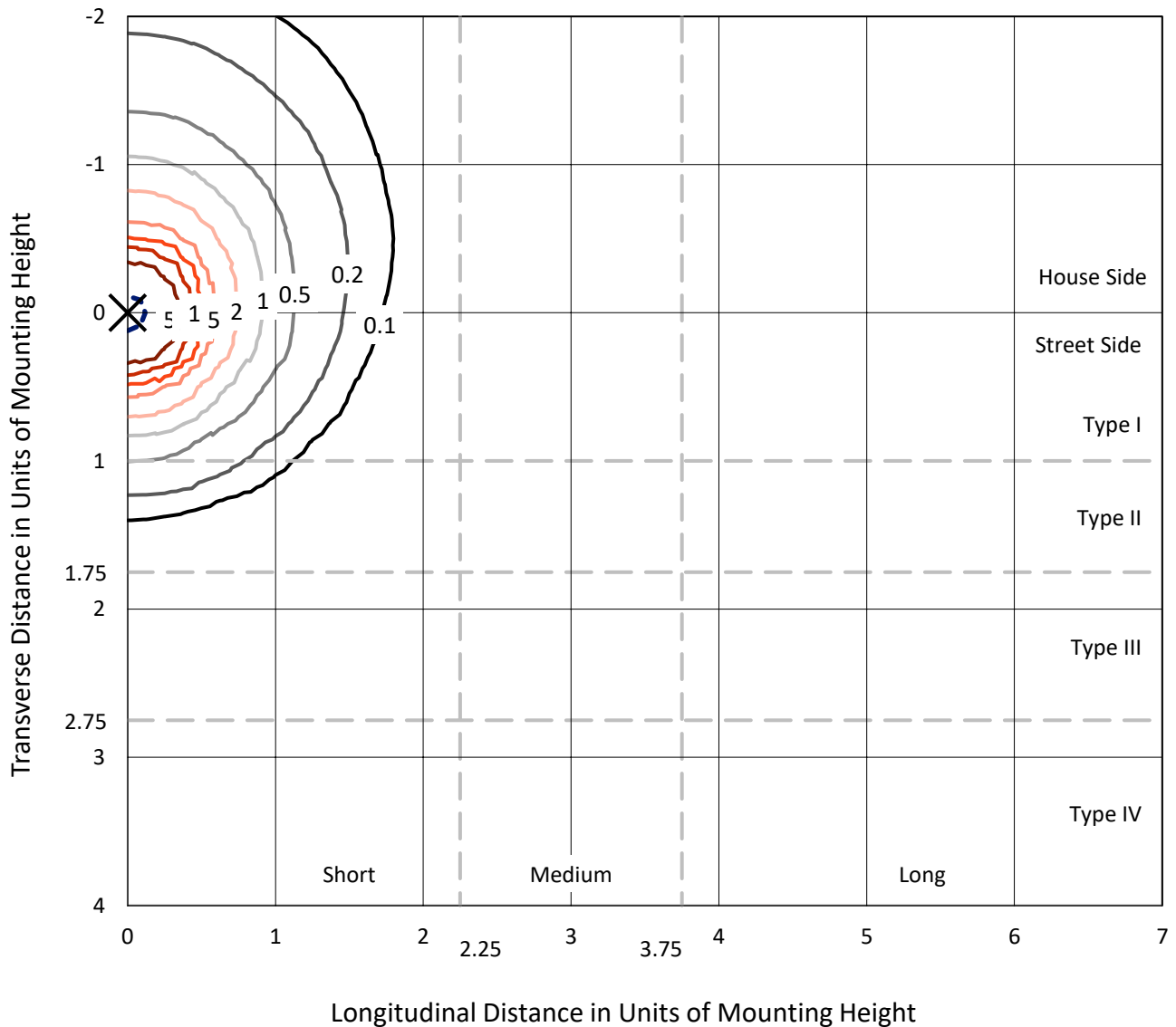
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

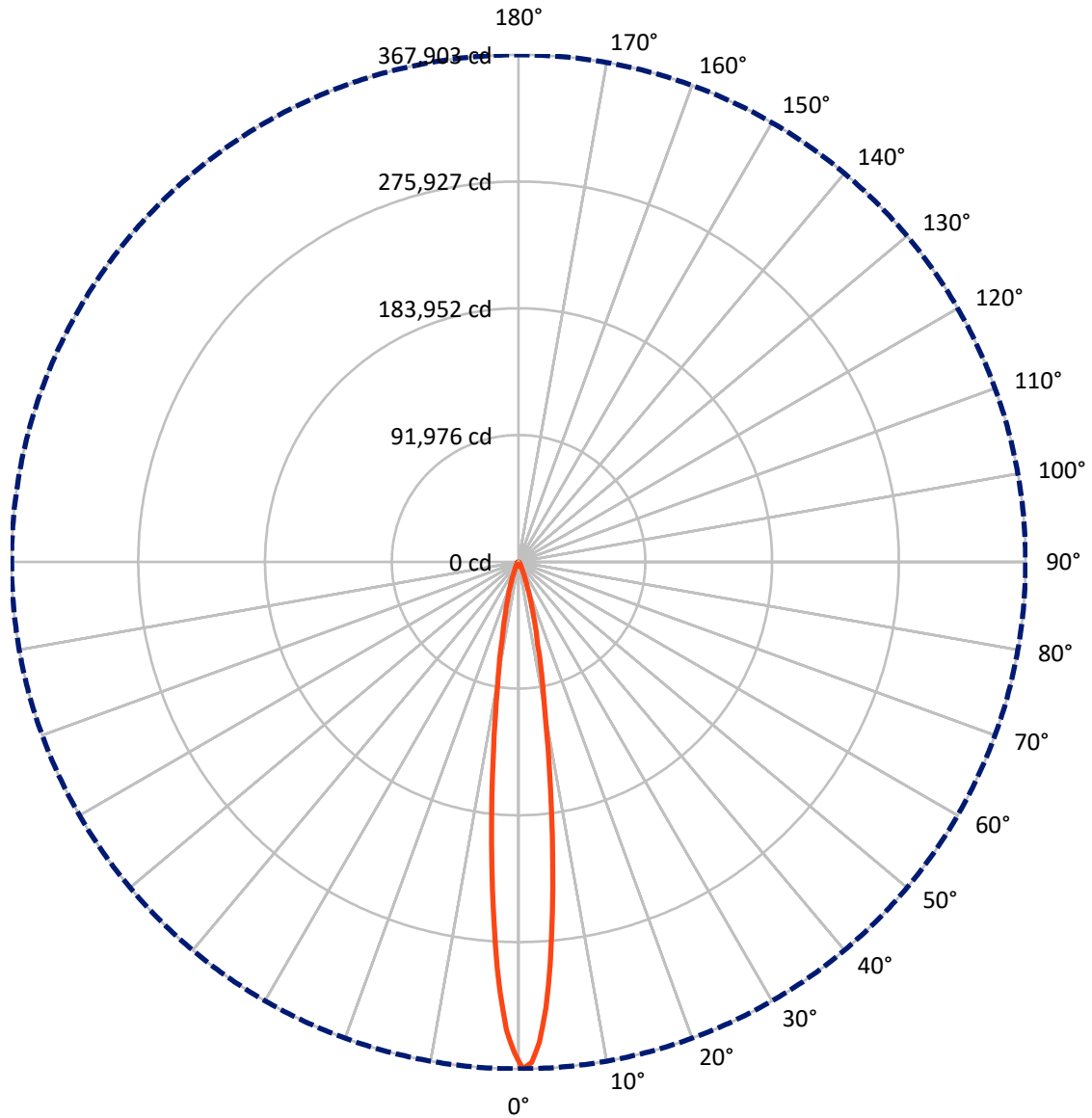
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 919.8 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	18970.0	0.0	18970.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	18067.6	0.0	18067.6
	% Fixture	48.8	0.0	48.8
Total	Lumens	37037.6	0.0	37037.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18697.7	50.5
10°-20°	11970.2	32.3
20°-30°	3598.0	9.7
30°-40°	1171.5	3.2
40°-50°	681.6	1.8
50°-60°	452.8	1.2
60°-70°	272.5	0.7
70°-80°	140.1	0.4
80°-90°	53.2	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°	37037.6	100.0
0°-180°	37037.6	100.0



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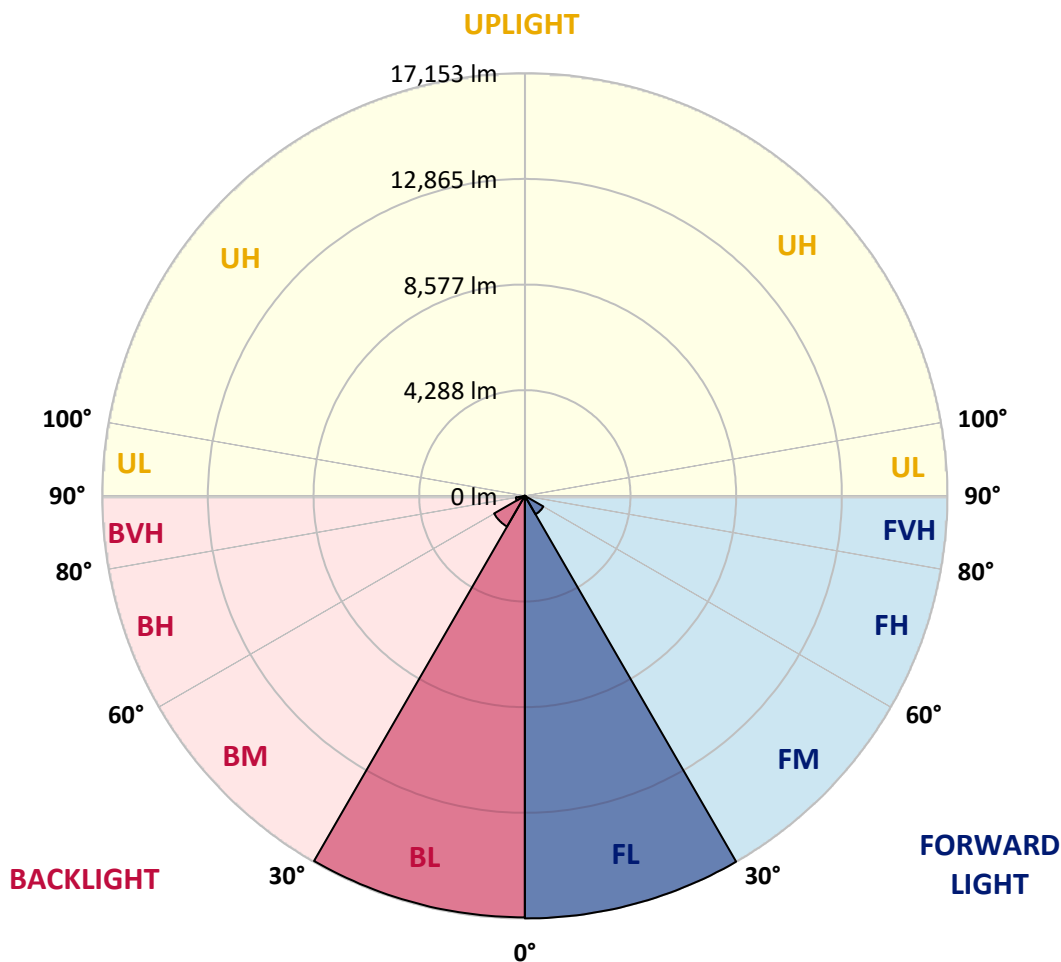
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17153.2	46.3			
FM (30°-60°)	865.6	2.3			
FH (60°-80°)	40.7	0.1			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	17112.6	46.2	B5		
BM (30°-60°)	1440.3	3.9	B2/2500		
BH (60°-80°)	371.9	1.0	B1/500		G0/660
BVH (80°-90°)	45.2	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°	367903.2	367903.2	367903.2	367903.2	367903.2	367903.2	367903.2	367903.2	367903.2	367903.2
1°	363498.1	362388.7	359524.6	361561.7	363352.8	362832.5	362796.1	362602.5	362332.2	364454.1
2°	348967.7	348249.6	344013.9	345760.6	348306.1	346450.5	347612.2	346591.6	346611.8	349145.2
3°	324473.3	324864.6	318107.7	321282.4	324820.2	320322.4	321718.1	324340.2	321593.1	320766.1
4°	292637.1	289240.5	285549.4	288776.6	289692.3	287074.3	289648.0	292859.0	289042.9	289212.3
5°	256291.0	253781.8	249413.0	251405.8	249134.7	249961.6	253818.1	255141.3	252478.8	249126.6
6°	218920.2	217137.1	211675.1	214547.3	213740.5	213272.6	218141.6	214107.6	215559.8	213530.8
7°	182098.0	178765.9	176083.3	178834.5	179012.0	177604.1	183925.4	183191.2	180548.9	179935.8
8°	150870.9	147546.9	145275.8	147325.0	148664.3	146453.7	149426.8	151379.2	149313.8	149499.4
9°	121685.1	121100.1	117941.5	120620.1	122076.4	119708.4	123000.1	123706.1	121773.8	122713.7
10°	99913.7	99231.9	96710.7	97795.8	100208.1	97384.4	100543.0	100772.9	99231.9	99671.6
12.5°	61744.1	61469.8	61401.2	61558.6	61526.3	62026.5	62833.3	61913.6	61792.5	60271.7
15°	39908.2	40315.6	39896.1	40702.9	40819.9	41291.8	40799.7	40057.4	38641.5	37939.6
17.5°	24905.8	25426.2	26144.2	27326.2	28508.1	28645.3	27991.8	27120.5	26434.7	25684.4
20°	14328.7	14582.8	14473.9	15889.9	18947.6	19778.6	18935.5	18019.8	17192.8	16434.4
22.5°	8903.0	8810.2	8979.6	9455.7	10452.0	13021.7	12331.9	11416.2	10815.1	10189.8
25°	5458.0	5558.8	5494.3	5756.5	6204.3	7293.4	7450.8	7055.4	6748.9	6426.1
27.5°	3513.6	3513.6	3541.8	3687.1	3993.6	3957.3	4796.4	4489.8	4324.4	4167.1
30°	2440.6	2448.6	2448.6	2533.3	2601.9	2480.9	2698.7	3094.1	3017.4	2896.4
32.5°	1811.3	1835.5	1855.6	1900.0	1843.5	1714.4	1766.9	2226.8	2182.4	2138.0
35°	1379.6	1399.8	1448.2	1472.4	1391.7	1311.0	1262.6	1637.8	1658.0	1645.9
37.5°	1004.5	1016.6	1105.3	1198.1	1105.3	1032.7	1004.5	1258.6	1355.4	1343.3
40°	770.5	774.5	790.7	895.5	895.5	839.1	847.1	939.9	1109.3	1109.3
42.5°	661.6	661.6	677.7	661.6	665.6	726.1	746.3	758.4	939.9	939.9
45°	572.8	572.8	580.9	540.6	500.2	625.3	641.4	645.4	790.7	810.8
47.5°	480.0	480.0	496.2	443.7	423.6	496.2	540.6	552.7	681.7	697.9
50°	355.0	359.0	407.4	363.1	375.2	383.2	467.9	476.0	576.9	613.2
52.5°	238.0	238.0	246.1	282.4	326.8	314.7	379.2	407.4	459.9	508.3
55°	193.6	193.6	189.6	181.5	242.0	262.2	278.3	338.9	375.2	435.7
57.5°	133.1	141.2	129.1	149.3	157.3	197.7	209.8	266.2	286.4	367.1
60°	16.1	20.2	28.2	108.9	104.9	133.1	157.3	209.8	234.0	282.4
62.5°	4.0	4.0	8.1	20.2	72.6	88.7	125.1	145.2	169.4	217.8
65°	0.0	0.0	4.0	8.1	16.1	48.4	64.5	84.7	121.0	153.3
67.5°	0.0	0.0	4.0	8.1	8.1	20.2	32.3	52.4	64.5	113.0
70°	0.0	0.0	4.0	8.1	8.1	16.1	20.2	24.2	44.4	60.5
72.5°	0.0	0.0	4.0	8.1	12.1	16.1	20.2	20.2	20.2	40.3
75°	0.0	0.0	4.0	8.1	12.1	16.1	20.2	20.2	16.1	16.1
77.5°	0.0	0.0	4.0	8.1	16.1	20.2	24.2	20.2	12.1	12.1
80°	0.0	0.0	4.0	12.1	20.2	28.2	32.3	24.2	12.1	8.1
82.5°	0.0	0.0	8.1	16.1	24.2	32.3	44.4	36.3	16.1	8.1
85°	0.0	0.0	4.0	12.1	24.2	32.3	64.5	44.4	20.2	4.0
87.5°	0.0	0.0	0.0	4.0	4.0	8.1	24.2	16.1	8.1	4.0
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°
367903.2	0°	367903.2	367903.2	367903.2	367903.2	367903.2	367903.2	367903.2	367903.2
362005.5	1°	364534.8	364788.9	363957.9	365244.8	364793.0	362146.7	361271.3	360234.6
347656.6	2°	346591.6	347886.5	347951.1	349379.1	349359.0	346273.0	345316.9	347079.8
322444.2	3°	321468.0	322976.7	321617.3	324154.6	323392.2	319648.7	318676.5	320677.3
290551.6	4°	289684.3	289397.8	288929.9	287485.7	289264.7	286711.2	284787.0	287501.9
253572.1	5°	253063.8	252426.4	251514.7	251087.1	252410.3	250776.5	246819.2	250784.6
217201.7	6°	217467.9	214724.8	214591.7	214353.7	214486.8	209912.3	210186.6	213139.5
177826.0	7°	179705.8	180210.1	179181.4	180831.3	179572.7	176474.6	175280.5	178390.7
150314.2	8°	149265.4	148628.0	147841.4	150306.2	148123.8	146090.6	144698.9	147155.6
122867.0	9°	122637.1	121535.8	120737.1	120612.0	120950.9	117134.7	117909.3	119768.9
99913.7	10°	99950.0	98142.7	98582.4	98699.4	98328.3	95827.2	95851.4	96492.8
61280.2	12.5°	61062.4	60174.9	60396.8	60517.8	61272.1	60392.7	59150.3	58254.7
38637.5	15°	38379.3	37741.9	39044.9	39920.3	39742.8	38960.2	38375.3	37564.4
25684.4	17.5°	25446.4	26281.4	26285.4	27084.2	27164.8	26382.2	25930.4	25200.3
16704.7	20°	16644.2	16991.1	17713.2	18278.0	18604.7	18007.7	17467.1	16966.9
10415.7	22.5°	10415.7	11020.8	11472.6	12206.8	12505.3	12069.7	11686.4	11279.0
6502.8	25°	6393.9	6825.5	7200.7	7838.0	8245.5	8035.7	7684.7	7398.3
4199.4	27.5°	4263.9	4445.4	4631.0	5070.7	5494.3	5377.3	5236.1	5062.6
2960.9	30°	3005.3	3021.5	3219.1	3465.2	3747.6	3820.2	3755.6	3666.9
2174.3	32.5°	2214.7	2279.2	2372.0	2525.3	2714.9	2888.3	2856.1	2815.7
1662.0	35°	1710.4	1807.2	1883.9	2000.9	2101.7	2267.1	2295.3	2283.2
1367.5	37.5°	1395.8	1480.5	1557.1	1625.7	1710.4	1823.4	1912.1	1916.1
1129.5	40°	1157.8	1234.4	1335.2	1387.7	1448.2	1532.9	1641.8	1649.9
956.1	42.5°	976.2	1048.8	1149.7	1214.2	1258.6	1339.3	1448.2	1464.3
818.9	45°	839.1	883.4	988.3	1065.0	1109.3	1161.8	1278.8	1294.9
705.9	47.5°	730.2	774.5	839.1	948.0	988.3	1036.7	1129.5	1157.8
625.3	50°	641.4	685.8	742.3	839.1	899.6	939.9	1016.6	1056.9
544.6	52.5°	568.8	613.2	673.7	750.3	818.9	855.2	927.8	980.3
443.7	55°	476.0	552.7	597.0	665.6	758.4	790.7	847.1	915.7
387.3	57.5°	415.5	480.0	544.6	601.1	693.8	734.2	790.7	855.2
306.6	60°	351.0	411.5	488.1	536.5	625.3	677.7	738.2	798.7
234.0	62.5°	278.3	359.0	411.5	480.0	564.8	633.3	681.7	742.3
181.5	65°	205.7	294.5	355.0	427.6	508.3	580.9	621.2	685.8
129.1	67.5°	149.3	229.9	302.5	371.1	447.8	520.4	560.7	617.2
80.7	70°	117.0	169.4	250.1	310.6	391.3	451.8	496.2	532.5
52.4	72.5°	68.6	129.1	201.7	270.3	342.9	383.2	415.5	447.8
24.2	75°	44.4	100.8	165.4	225.9	278.3	314.7	342.9	371.1
12.1	77.5°	28.2	72.6	133.1	189.6	213.8	258.2	282.4	298.5
8.1	80°	16.1	56.5	117.0	153.3	173.5	201.7	225.9	246.1
8.1	82.5°	12.1	48.4	96.8	129.1	129.1	161.4	173.5	173.5
4.0	85°	8.1	40.3	76.6	121.0	96.8	121.0	113.0	113.0
4.0	87.5°	8.1	28.2	36.3	52.4	44.4	52.4	52.4	60.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
367903.2
356128.0
339612.9
311790.5
277675.1
240336.6
204579.3
169931.5
140140.5
113960.0
92128.1
57710.1
37148.9
25018.8
16793.5
11061.2
7232.9
4961.8
3606.4
2783.4
2242.9
1887.9
1637.8
1452.2
1290.9
1161.8
1060.9
980.3
919.7
859.2
814.9
770.5
697.9
621.2
544.6
455.8
371.1
290.4
221.9
161.4
108.9
60.5
0.0

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