

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: P637051

Luminaire Tested: **IFLD-L-SA7E-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637051
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46949.8 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

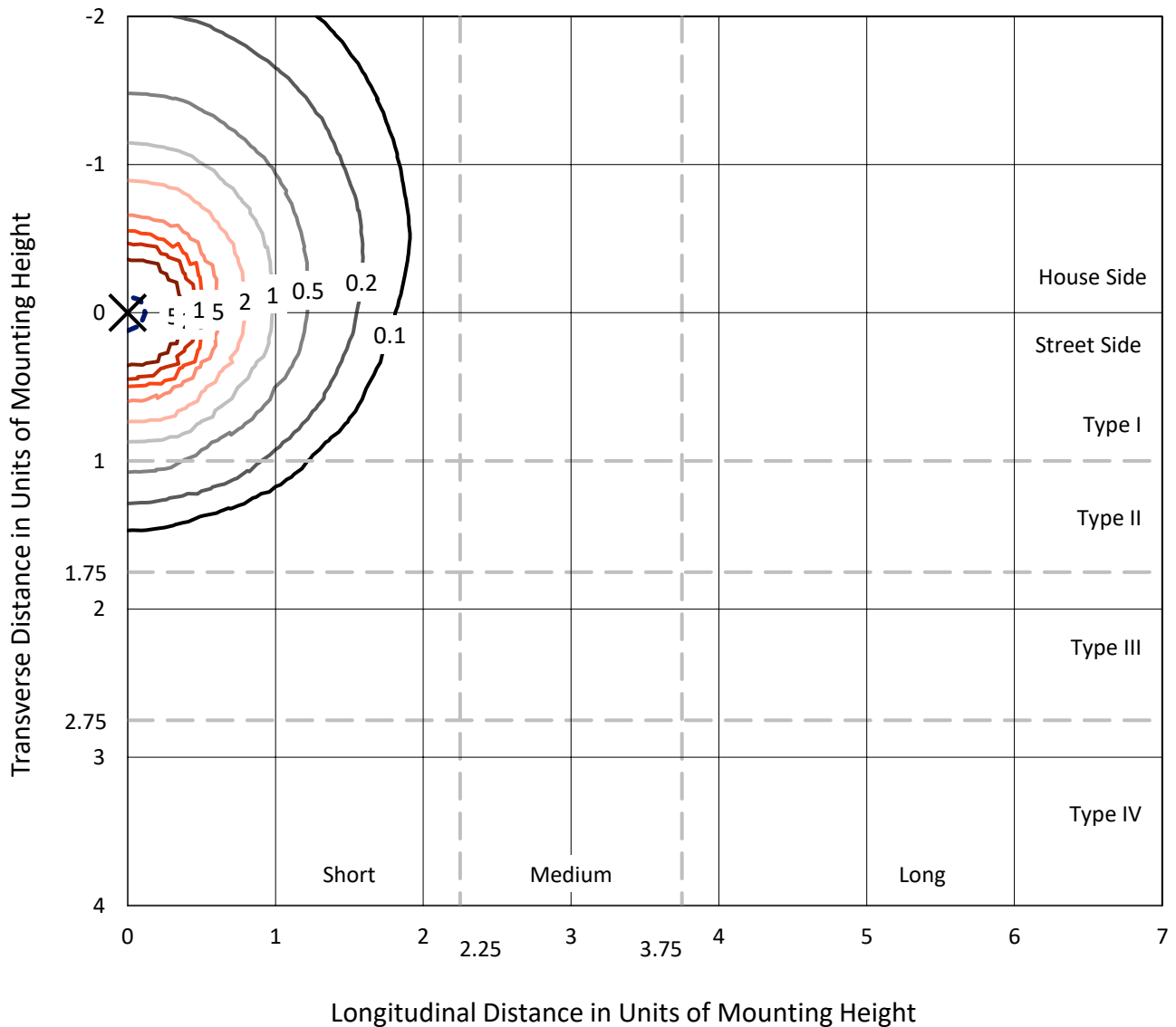
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

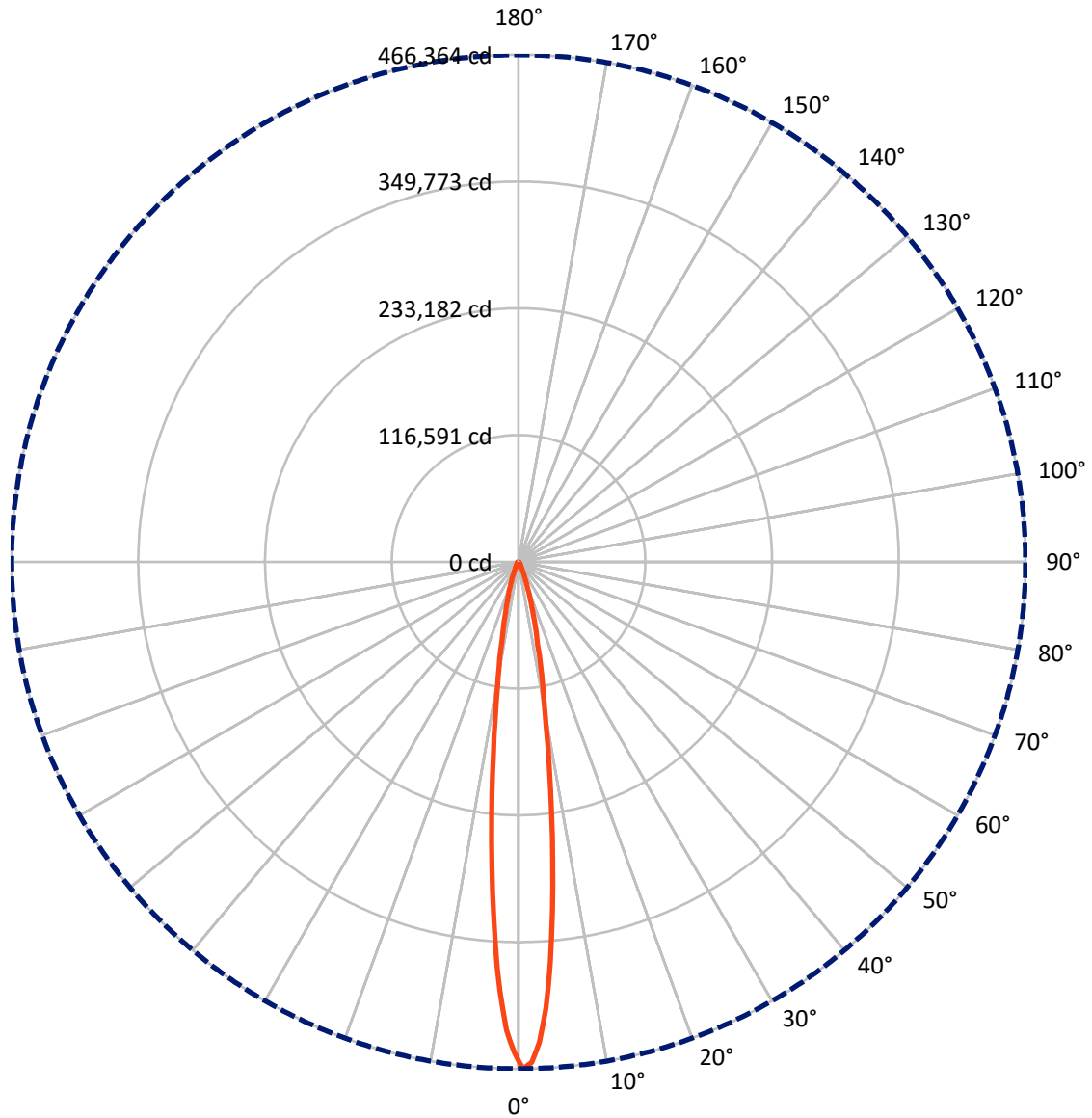
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1165.9 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	24046.8	0.0	24046.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	22903.0	0.0	22903.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	46949.8	0.0	46949.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23701.7	50.5
10°-20°	15173.7	32.3
20°-30°	4560.9	9.7
30°-40°	1485.0	3.2
40°-50°	864.0	1.8
50°-60°	573.9	1.2
60°-70°	345.5	0.7
70°-80°	177.6	0.4
80°-90°	67.5	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°	46949.8	100.0
0°-180°	46949.8	100.0

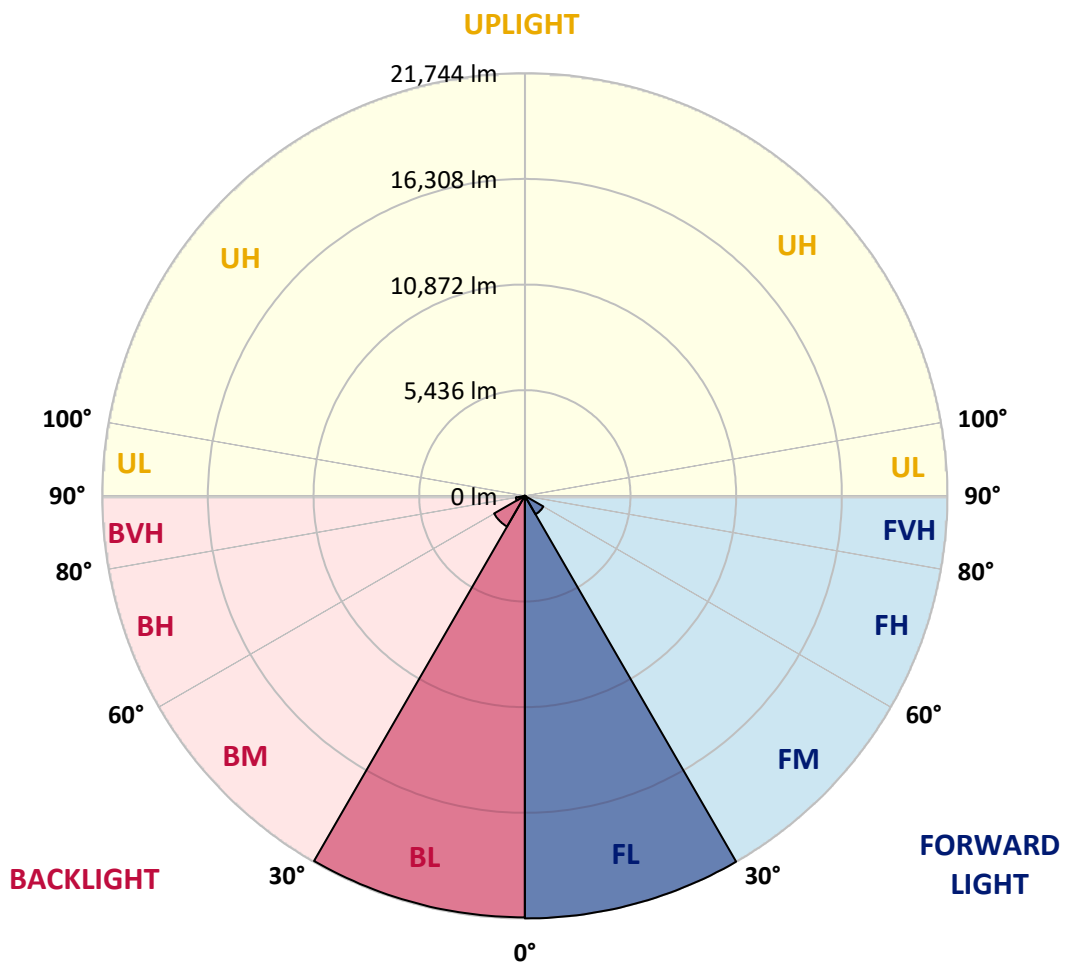


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21743.9	46.3			
FM (30°-60°)	1097.2	2.3			
FH (60°-80°)	51.6	0.1			G0/660
FVH (80°-90°)	10.2	0.0			G1/100
BL (0°-30°)	21692.4	46.2	B5		
BM (30°-60°)	1825.8	3.9	B2/2500		
BH (60°-80°)	471.4	1.0	B1/500		G0/660
BVH (80°-90°)	57.3	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°	466363.9	466363.9	466363.9	466363.9	466363.9	466363.9	466363.9	466363.9	466363.9	466363.9
1°	460779.9	459373.7	455743.0	458325.4	460595.8	459936.2	459890.1	459644.7	459302.1	461991.8
2°	442360.8	441450.5	436081.3	438295.5	441522.1	439169.9	440642.6	439348.9	439374.4	442585.8
3°	411311.1	411807.1	403241.9	407266.2	411750.9	406049.2	407818.5	411142.3	407660.0	406611.7
4°	370954.7	366649.0	361970.1	366061.0	367221.8	363903.1	367165.5	371235.9	366398.5	366613.3
5°	324881.3	321700.7	316162.6	318688.8	315809.8	316858.1	321746.7	323423.9	320049.0	315799.6
6°	277509.1	275248.9	268325.1	271965.9	270943.2	270350.0	276522.1	271408.6	273249.4	270677.3
7°	230832.3	226608.5	223207.9	226695.4	226920.4	225135.7	233148.7	232218.1	228868.7	228091.4
8°	191248.0	187034.4	184155.5	186753.2	188450.9	185648.6	189417.4	191892.3	189274.2	189509.4
9°	154251.2	153509.8	149505.8	152901.3	154747.3	151745.6	155918.3	156813.2	154363.7	155555.2
10°	126653.2	125789.0	122593.1	123968.6	127026.5	123447.0	127451.0	127742.4	125789.0	126346.4
12.5°	78268.5	77920.8	77833.9	78033.3	77992.4	78626.5	79649.2	78483.3	78329.9	76402.1
15°	50588.7	51105.2	50573.3	51596.1	51744.4	52342.6	51718.8	50777.9	48983.0	48093.3
17.5°	31571.3	32230.9	33141.1	34639.4	36137.7	36311.6	35483.2	34378.6	33509.3	32558.2
20°	18163.4	18485.6	18347.5	20142.4	24018.5	25071.9	24003.2	22842.4	21794.1	20832.7
22.5°	11285.7	11168.1	11382.8	11986.2	13249.3	16506.6	15632.2	14471.4	13709.5	12916.9
25°	6918.7	7046.5	6964.7	7297.1	7864.7	9245.4	9444.8	8943.7	8555.0	8145.9
27.5°	4453.9	4453.9	4489.7	4673.8	5062.4	5016.4	6080.1	5691.4	5481.8	5282.3
30°	3093.7	3103.9	3103.9	3211.3	3298.3	3144.9	3421.0	3922.1	3825.0	3671.6
32.5°	2296.0	2326.7	2352.2	2408.5	2336.9	2173.3	2239.7	2822.7	2766.4	2710.2
35°	1748.8	1774.4	1835.8	1866.5	1764.2	1661.9	1600.6	2076.1	2101.7	2086.3
37.5°	1273.3	1288.6	1401.1	1518.7	1401.1	1309.1	1273.3	1595.4	1718.2	1702.8
40°	976.7	981.8	1002.3	1135.2	1135.2	1063.6	1073.9	1191.5	1406.2	1406.2
42.5°	838.6	838.6	859.1	838.6	843.7	920.4	946.0	961.4	1191.5	1191.5
45°	726.1	726.1	736.4	685.2	634.1	792.6	813.1	818.2	1002.3	1027.8
47.5°	608.5	608.5	629.0	562.5	536.9	629.0	685.2	700.6	864.2	884.6
50°	450.0	455.1	516.5	460.2	475.6	485.8	593.2	603.4	731.2	777.3
52.5°	301.7	301.7	311.9	358.0	414.2	398.9	480.7	516.5	582.9	644.3
55°	245.5	245.5	240.3	230.1	306.8	332.4	352.8	429.5	475.6	552.3
57.5°	168.7	179.0	163.6	189.2	199.4	250.6	265.9	337.5	363.1	465.3
60°	20.5	25.6	35.8	138.1	133.0	168.7	199.4	265.9	296.6	358.0
62.5°	5.1	5.1	10.2	25.6	92.0	112.5	158.5	184.1	214.8	276.1
65°	0.0	0.0	5.1	10.2	20.5	61.4	81.8	107.4	153.4	194.3
67.5°	0.0	0.0	5.1	10.2	10.2	25.6	40.9	66.5	81.8	143.2
70°	0.0	0.0	5.1	10.2	10.2	20.5	25.6	30.7	56.2	76.7
72.5°	0.0	0.0	5.1	10.2	15.3	20.5	25.6	25.6	25.6	51.1
75°	0.0	0.0	5.1	10.2	15.3	20.5	25.6	25.6	20.5	20.5
77.5°	0.0	0.0	5.1	10.2	20.5	25.6	30.7	25.6	15.3	15.3
80°	0.0	0.0	5.1	15.3	25.6	35.8	40.9	30.7	15.3	10.2
82.5°	0.0	0.0	10.2	20.5	30.7	40.9	56.2	46.0	20.5	10.2
85°	0.0	0.0	5.1	15.3	30.7	40.9	81.8	56.2	25.6	5.1
87.5°	0.0	0.0	0.0	5.1	5.1	10.2	30.7	20.5	10.2	5.1
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°
466363.9	0°	466363.9	466363.9	466363.9	466363.9	466363.9	466363.9	466363.9	466363.9
458887.9	1°	462094.1	462416.2	461362.8	462994.1	462421.4	459066.8	457957.2	456643.0
440698.9	2°	439348.9	440990.3	441072.1	442882.4	442856.8	438944.9	437733.0	439967.6
408739.0	3°	407501.5	409413.9	407690.7	410907.1	409940.6	405195.2	403962.9	406499.2
368311.0	4°	367211.5	366848.5	366255.3	364424.6	366679.7	363442.8	361003.7	364445.1
321434.7	5°	320790.4	319982.5	318826.8	318284.8	319962.0	317891.0	312874.6	317901.3
275330.7	6°	275668.2	272190.9	272022.2	271720.5	271889.2	266090.4	266438.2	270181.3
225417.0	7°	227799.9	228439.1	227135.2	229226.6	227631.2	223703.9	222190.3	226132.9
190542.3	8°	189212.8	188404.9	187407.7	190532.1	187765.7	185188.4	183424.2	186538.4
155749.5	9°	155458.1	154062.0	153049.6	152891.0	153320.6	148483.1	149464.9	151822.3
126653.2	10°	126699.3	124408.4	124965.8	125114.0	124643.6	121473.2	121503.9	122316.9
77680.4	12.5°	77404.3	76279.3	76560.6	76714.0	77670.2	76555.5	74980.5	73845.3
48977.9	15°	48650.6	47842.7	49494.4	50604.0	50379.0	49387.0	48645.5	47617.7
32558.2	17.5°	32256.5	33315.0	33320.1	34332.6	34434.9	33442.8	32870.1	31944.6
21175.3	20°	21098.6	21538.4	22453.7	23169.6	23583.8	22827.0	22141.8	21507.7
13203.3	22.5°	13203.3	13970.3	14543.0	15473.7	15852.1	15299.8	14814.1	14297.6
8243.1	25°	8105.0	8652.2	9127.7	9935.7	10452.2	10186.3	9741.4	9378.3
5323.2	27.5°	5405.1	5635.2	5870.4	6427.8	6964.7	6816.4	6637.4	6417.5
3753.4	30°	3809.6	3830.1	4080.6	4392.6	4750.5	4842.6	4760.7	4648.2
2756.2	32.5°	2807.4	2889.2	3006.8	3201.1	3441.4	3661.3	3620.4	3569.3
2106.8	35°	2168.2	2290.9	2388.0	2536.3	2664.2	2873.8	2909.6	2894.3
1733.5	37.5°	1769.3	1876.7	1973.8	2060.8	2168.2	2311.3	2423.8	2429.0
1431.8	40°	1467.6	1564.8	1692.6	1759.1	1835.8	1943.2	2081.2	2091.5
1211.9	42.5°	1237.5	1329.5	1457.4	1539.2	1595.4	1697.7	1835.8	1856.2
1038.1	45°	1063.6	1119.9	1252.8	1350.0	1406.2	1472.7	1621.0	1641.5
894.9	47.5°	925.6	981.8	1063.6	1201.7	1252.8	1314.2	1431.8	1467.6
792.6	50°	813.1	869.3	940.9	1063.6	1140.3	1191.5	1288.6	1339.8
690.3	52.5°	721.0	777.3	854.0	951.1	1038.1	1084.1	1176.1	1242.6
562.5	55°	603.4	700.6	756.8	843.7	961.4	1002.3	1073.9	1160.8
490.9	57.5°	526.7	608.5	690.3	761.9	879.5	930.7	1002.3	1084.1
388.6	60°	444.9	521.6	618.7	680.1	792.6	859.1	935.8	1012.5
296.6	62.5°	352.8	455.1	521.6	608.5	715.9	802.8	864.2	940.9
230.1	65°	260.8	373.3	450.0	542.0	644.3	736.4	787.5	869.3
163.6	67.5°	189.2	291.5	383.5	470.4	567.6	659.7	710.8	782.4
102.3	70°	148.3	214.8	317.0	393.7	496.0	572.7	629.0	675.0
66.5	72.5°	86.9	163.6	255.7	342.6	434.7	485.8	526.7	567.6
30.7	75°	56.2	127.8	209.7	286.4	352.8	398.9	434.7	470.4
15.3	77.5°	35.8	92.0	168.7	240.3	271.0	327.3	358.0	378.4
10.2	80°	20.5	71.6	148.3	194.3	219.9	255.7	286.4	311.9
10.2	82.5°	15.3	61.4	122.7	163.6	163.6	204.5	219.9	219.9
5.1	85°	10.2	51.1	97.2	153.4	122.7	153.4	143.2	143.2
5.1	87.5°	10.2	35.8	46.0	66.5	56.2	66.5	66.5	76.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
466363.9
451437.4
430502.4
395234.0
351988.4
304657.1
259330.3
215409.7
177645.9
144458.7
116784.0
73154.9
47091.0
31714.4
21287.8
14021.4
9168.7
6289.7
4571.5
3528.4
2843.2
2393.2
2076.1
1840.9
1636.3
1472.7
1344.9
1242.6
1165.9
1089.2
1032.9
976.7
884.6
787.5
690.3
577.8
470.4
368.2
281.2
204.5
138.1
76.7
0.0

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