

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: P637047

Luminaire Tested: **IFLD-L-SA7A-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637047
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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: 26032.2 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

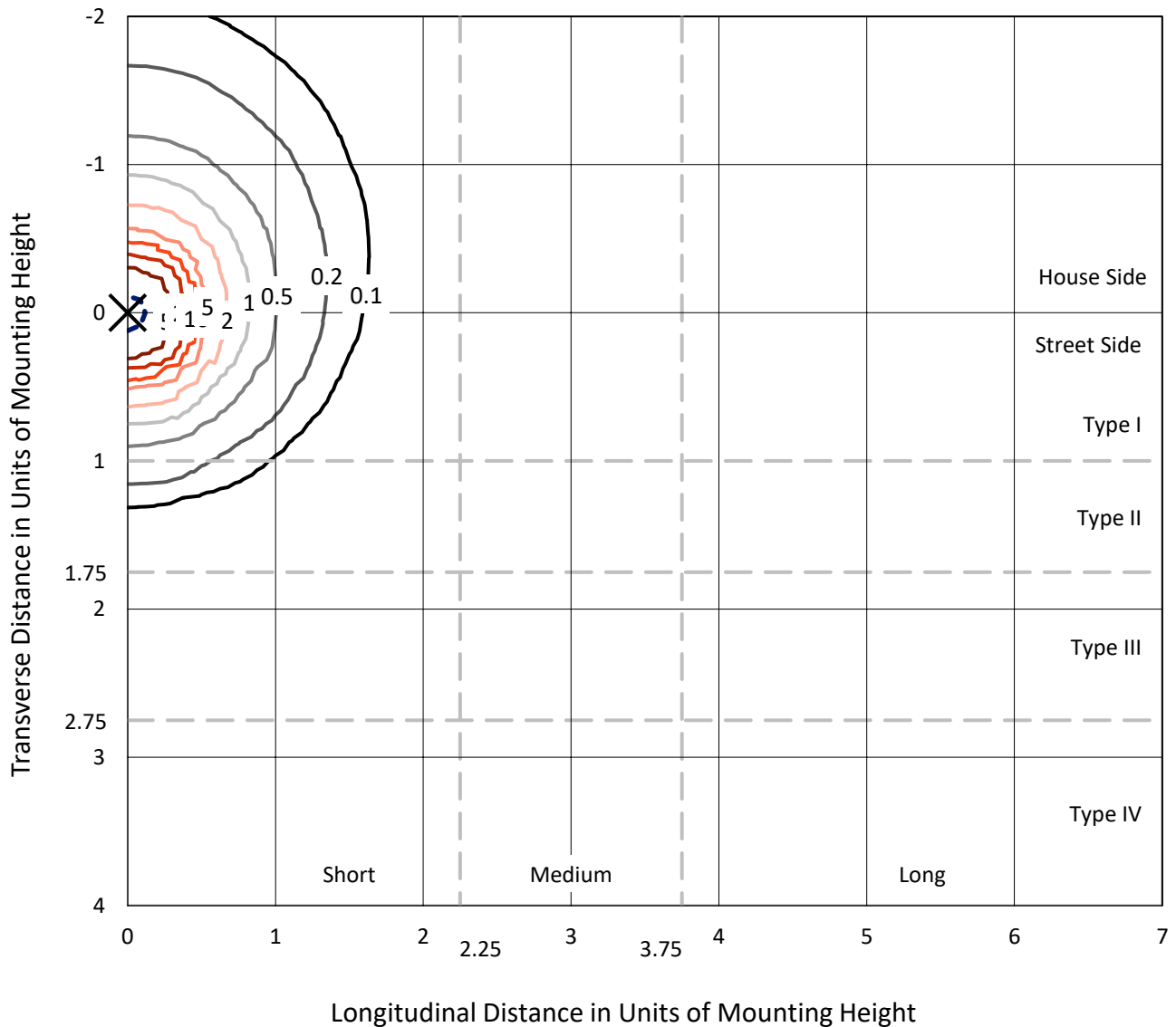
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

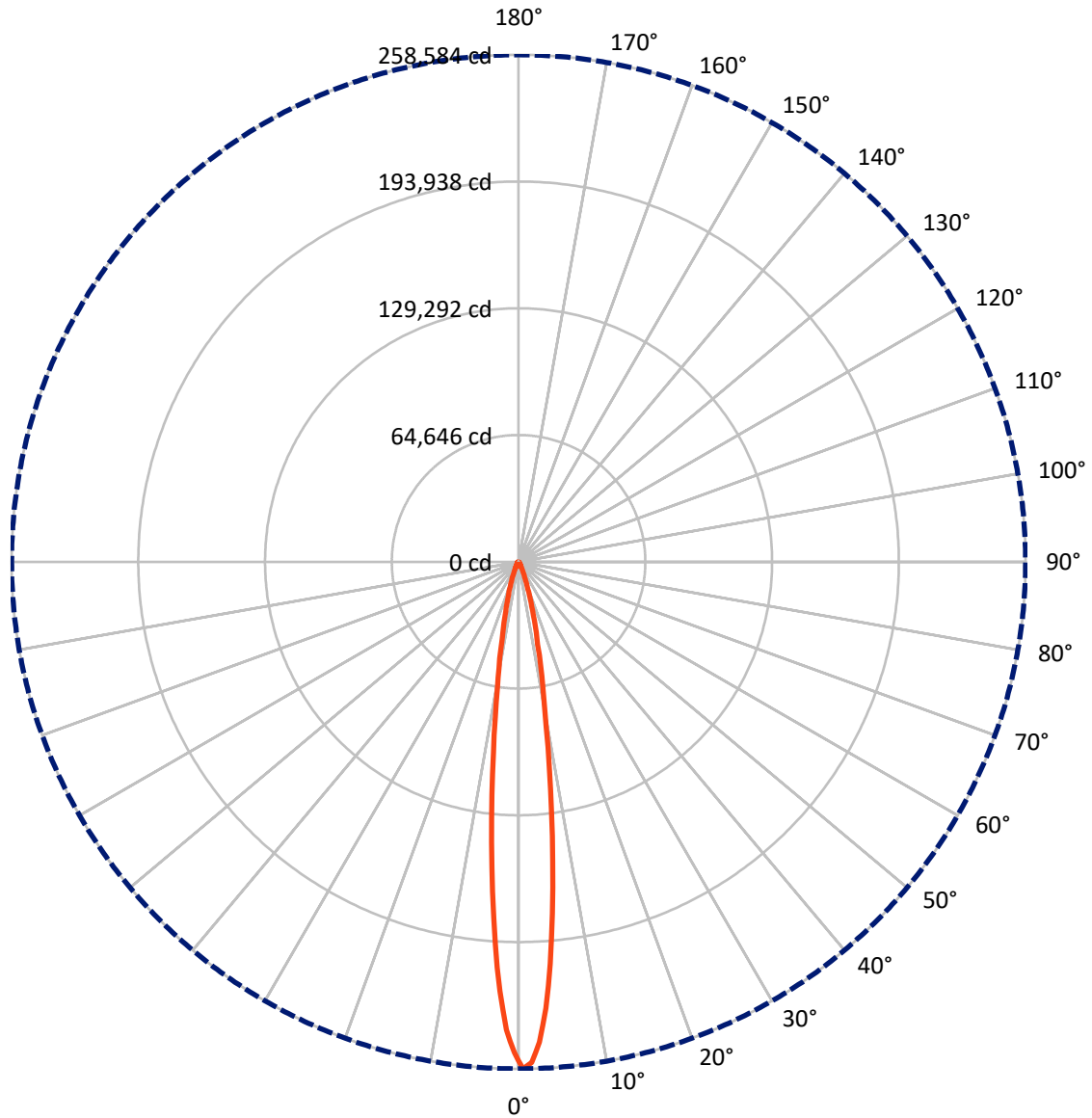
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 646.5 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	13333.2	0.0	13333.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	12699.0	0.0	12699.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	26032.2	0.0	26032.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13141.8	50.5
10°-20°	8413.3	32.3
20°-30°	2528.9	9.7
30°-40°	823.4	3.2
40°-50°	479.1	1.8
50°-60°	318.2	1.2
60°-70°	191.5	0.7
70°-80°	98.5	0.4
80°-90°	37.4	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°	26032.2	100.0
0°-180°	26032.2	100.0

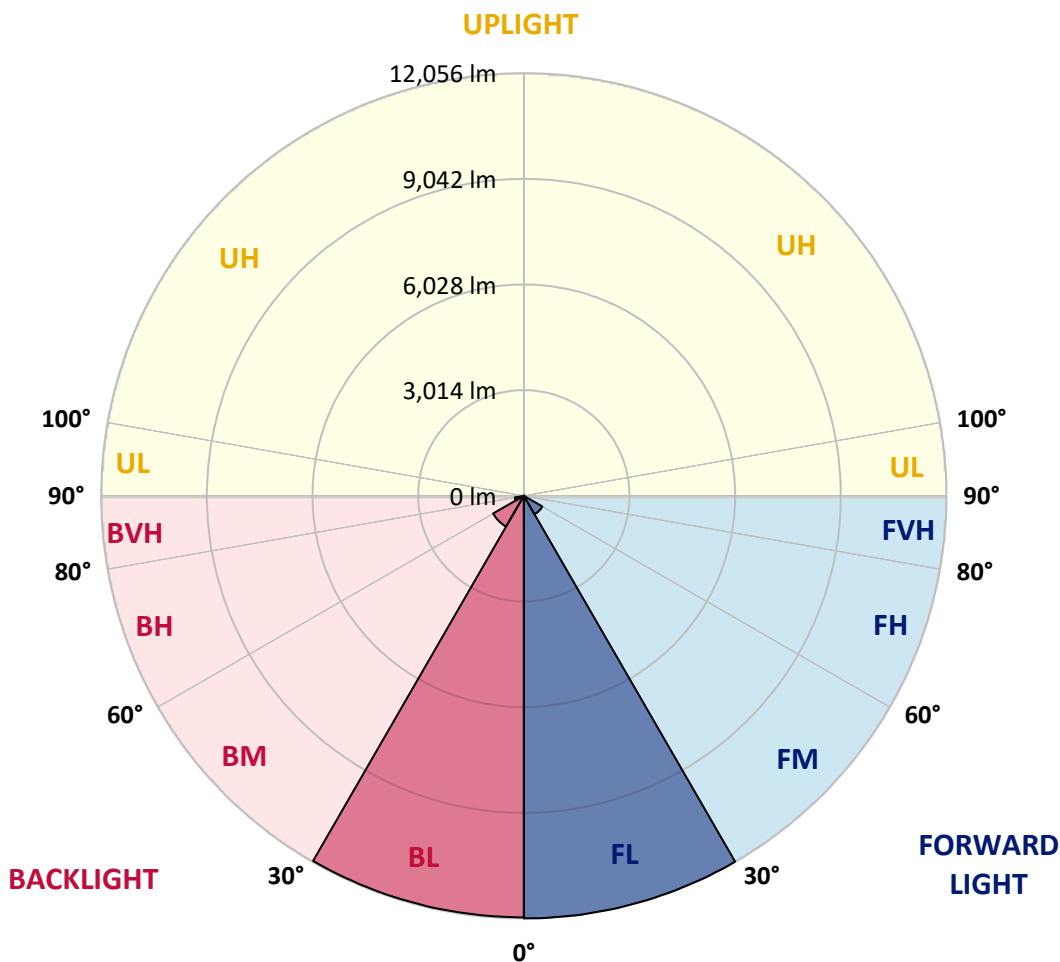


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12056.3	46.3			
FM (30°-60°)	608.4	2.3			
FH (60°-80°)	28.6	0.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	12027.7	46.2	B5		
BM (30°-60°)	1012.3	3.9	B2/2500		
BH (60°-80°)	261.4	1.0	B1/500		G0/660
BVH (80°-90°)	31.8	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°	258583.9	258583.9	258583.9	258583.9	258583.9	258583.9	258583.9	258583.9	258583.9	258583.9
1°	255487.8	254708.0	252695.0	254126.8	253385.7	255019.9	254994.4	254858.3	254668.4	256159.7
2°	245274.9	244770.3	241793.2	243020.9	244809.9	243505.7	244322.3	243604.9	243619.1	245399.7
3°	228058.9	228333.9	223584.7	225816.1	228302.7	225141.3	226122.4	227965.3	226034.5	225453.2
4°	205682.5	203295.2	200700.9	202969.1	203612.8	201772.6	203581.6	205838.5	203156.3	203275.4
5°	180136.3	178372.8	175302.1	176702.8	175106.5	175687.7	178398.3	179328.3	177456.9	175100.8
6°	153869.9	152616.7	148777.7	150796.4	150229.4	149900.5	153322.7	150487.4	151508.1	150081.9
7°	127989.1	125647.2	123761.7	125695.4	125820.1	124830.6	129273.5	128757.5	126900.4	126469.4
8°	106040.9	103704.6	102108.3	103548.7	104490.0	102936.3	105025.9	106398.2	104946.5	105076.9
9°	85527.4	85116.3	82896.2	84778.9	85802.4	84138.1	86451.7	86947.9	85589.8	86250.4
10°	70225.2	69746.0	67973.9	68736.6	70432.2	68447.4	70667.5	70829.1	69746.0	70055.1
12.5°	43397.4	43204.6	43156.4	43267.0	43244.3	43595.9	44162.9	43516.5	43431.4	42362.5
15°	28049.8	28336.2	28041.3	28608.4	28690.6	29022.3	28676.4	28154.7	27159.5	26666.2
17.5°	17505.3	17871.0	18375.7	19206.5	20037.2	20133.6	19674.3	19061.8	18579.8	18052.5
20°	10071.1	10249.7	10173.1	11168.3	13317.5	13901.6	13309.0	12665.4	12084.1	11551.1
22.5°	6257.5	6192.3	6311.4	6646.0	7346.3	9152.4	8667.6	8024.0	7601.5	7162.0
25°	3836.2	3907.1	3861.7	4046.0	4360.7	5126.3	5236.8	4959.0	4743.5	4516.7
27.5°	2469.6	2469.6	2489.4	2591.5	2807.0	2781.4	3371.2	3155.7	3039.5	2928.9
30°	1715.4	1721.0	1721.0	1780.6	1828.8	1743.7	1896.8	2174.7	2120.8	2035.8
32.5°	1273.1	1290.1	1304.2	1335.4	1295.7	1205.0	1241.9	1565.1	1533.9	1502.7
35°	969.7	983.9	1017.9	1034.9	978.2	921.5	887.5	1151.1	1165.3	1156.8
37.5°	706.0	714.5	776.9	842.1	776.9	725.8	706.0	884.6	952.7	944.2
40°	541.5	544.4	555.7	629.4	629.4	589.7	595.4	660.6	779.7	779.7
42.5°	465.0	465.0	476.3	465.0	467.8	510.4	524.5	533.0	660.6	660.6
45°	402.6	402.6	408.3	379.9	351.6	439.5	450.8	453.7	555.7	569.9
47.5°	337.4	337.4	348.7	311.9	297.7	348.7	379.9	388.4	479.2	490.5
50°	249.5	252.3	286.4	255.2	263.7	269.4	328.9	334.6	405.5	431.0
52.5°	167.3	167.3	173.0	198.5	229.7	221.2	266.5	286.4	323.2	357.3
55°	136.1	136.1	133.3	127.6	170.1	184.3	195.6	238.2	263.7	306.2
57.5°	93.6	99.2	90.7	104.9	110.6	138.9	147.4	187.1	201.3	258.0
60°	11.3	14.2	19.8	76.6	73.7	93.6	110.6	147.4	164.4	198.5
62.5°	2.8	2.8	5.7	14.2	51.0	62.4	87.9	102.1	119.1	153.1
65°	0.0	0.0	2.8	5.7	11.3	34.0	45.4	59.5	85.1	107.7
67.5°	0.0	0.0	2.8	5.7	5.7	14.2	22.7	36.9	45.4	79.4
70°	0.0	0.0	2.8	5.7	5.7	11.3	14.2	17.0	31.2	42.5
72.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	14.2	14.2	28.4
75°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	14.2	11.3	11.3
77.5°	0.0	0.0	2.8	5.7	11.3	14.2	17.0	14.2	8.5	8.5
80°	0.0	0.0	2.8	8.5	14.2	19.8	22.7	17.0	8.5	5.7
82.5°	0.0	0.0	5.7	11.3	17.0	22.7	31.2	25.5	11.3	5.7
85°	0.0	0.0	2.8	8.5	17.0	22.7	45.4	31.2	14.2	2.8
87.5°	0.0	0.0	0.0	2.8	2.8	5.7	17.0	11.3	5.7	2.8
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°
258583.9	0°	258583.9	258583.9	258583.9	258583.9	258583.9	258583.9	258583.9	258583.9
254438.7	1°	256216.4	256395.1	255811.0	256715.5	256397.9	254537.9	253922.7	253194.0
244353.5	2°	243604.9	244515.1	244560.4	245564.1	245550.0	243380.9	242709.0	243948.0
226632.7	3°	225946.6	227007.0	226051.5	227834.9	227299.0	224667.8	223984.5	225390.8
204216.7	4°	203607.1	203405.8	203076.9	202061.8	203312.2	201517.5	200165.0	202073.2
178225.3	5°	177868.1	177420.1	176779.3	176478.8	177408.7	176260.4	173479.0	176266.1
152662.1	6°	152849.2	150921.2	150827.6	150660.3	150753.9	147538.7	147731.5	149806.9
124986.5	7°	126307.8	126662.2	125939.2	127098.8	126214.2	124036.7	123197.4	125383.5
105649.7	8°	104912.5	104464.5	103911.6	105644.0	104110.1	102681.1	101702.9	103429.6
86358.1	9°	86196.5	85422.5	84861.1	84773.2	85011.4	82329.2	82873.5	84180.6
70225.2	10°	70250.7	68980.5	69289.5	69371.7	69110.9	67353.0	67370.0	67820.8
43071.3	12.5°	42918.2	42294.5	42450.4	42535.5	43065.7	42447.6	41574.3	40944.8
27156.7	15°	26975.2	26527.2	27443.1	28058.3	27933.6	27383.5	26972.4	26402.5
18052.5	17.5°	17885.2	18472.1	18474.9	19036.3	19093.0	18543.0	18225.4	17712.2
11741.1	20°	11698.5	11942.4	12449.9	12846.8	13076.5	12656.9	12276.9	11925.4
7320.8	22.5°	7320.8	7746.1	8063.6	8579.7	8789.5	8483.3	8213.9	7927.6
4570.5	25°	4494.0	4797.4	5061.0	5509.0	5795.4	5648.0	5401.3	5200.0
2951.6	27.5°	2996.9	3124.5	3254.9	3564.0	3861.7	3779.5	3680.2	3558.3
2081.1	30°	2112.3	2123.7	2262.6	2435.5	2634.0	2685.0	2639.7	2577.3
1528.2	32.5°	1556.6	1602.0	1667.2	1774.9	1908.2	2030.1	2007.4	1979.1
1168.2	35°	1202.2	1270.2	1324.1	1406.3	1477.2	1593.4	1613.3	1604.8
961.2	37.5°	981.0	1040.6	1094.4	1142.6	1202.2	1281.6	1343.9	1346.8
793.9	40°	813.7	867.6	938.5	975.3	1017.9	1077.4	1154.0	1159.6
672.0	42.5°	686.1	737.2	808.1	853.4	884.6	941.3	1017.9	1029.2
575.6	45°	589.7	620.9	694.7	748.5	779.7	816.6	898.8	910.1
496.2	47.5°	513.2	544.4	589.7	666.3	694.7	728.7	793.9	813.7
439.5	50°	450.8	482.0	521.7	589.7	632.3	660.6	714.5	742.9
382.8	52.5°	399.8	431.0	473.5	527.4	575.6	601.1	652.1	689.0
311.9	55°	334.6	388.4	419.6	467.8	533.0	555.7	595.4	643.6
272.2	57.5°	292.0	337.4	382.8	422.5	487.7	516.0	555.7	601.1
215.5	60°	246.7	289.2	343.1	377.1	439.5	476.3	518.9	561.4
164.4	62.5°	195.6	252.3	289.2	337.4	396.9	445.1	479.2	521.7
127.6	65°	144.6	207.0	249.5	300.5	357.3	408.3	436.6	482.0
90.7	67.5°	104.9	161.6	212.6	260.8	314.7	365.8	394.1	433.8
56.7	70°	82.2	119.1	175.8	218.3	275.0	317.6	348.7	374.3
36.9	72.5°	48.2	90.7	141.8	190.0	241.0	269.4	292.0	314.7
17.0	75°	31.2	70.9	116.2	158.8	195.6	221.2	241.0	260.8
8.5	77.5°	19.8	51.0	93.6	133.3	150.3	181.5	198.5	209.8
5.7	80°	11.3	39.7	82.2	107.7	121.9	141.8	158.8	173.0
5.7	82.5°	8.5	34.0	68.0	90.7	90.7	113.4	121.9	121.9
2.8	85°	5.7	28.4	53.9	85.1	68.0	85.1	79.4	79.4
2.8	87.5°	5.7	19.8	25.5	36.9	31.2	36.9	36.9	42.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
258583.9
250307.6
238699.8
219144.6
195166.3
168922.6
143790.4
119437.8
98499.0
80097.8
64753.0
40562.1
26110.5
17584.6
11803.4
7774.4
5083.7
3487.4
2534.8
1956.4
1576.4
1326.9
1151.1
1020.7
907.3
816.6
745.7
689.0
646.5
603.9
572.7
541.5
490.5
436.6
382.8
320.4
260.8
204.1
155.9
113.4
76.6
42.5
0.0

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