

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: P637036

Luminaire Tested: **IFLD-S-SA3E-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637036
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22433.3 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

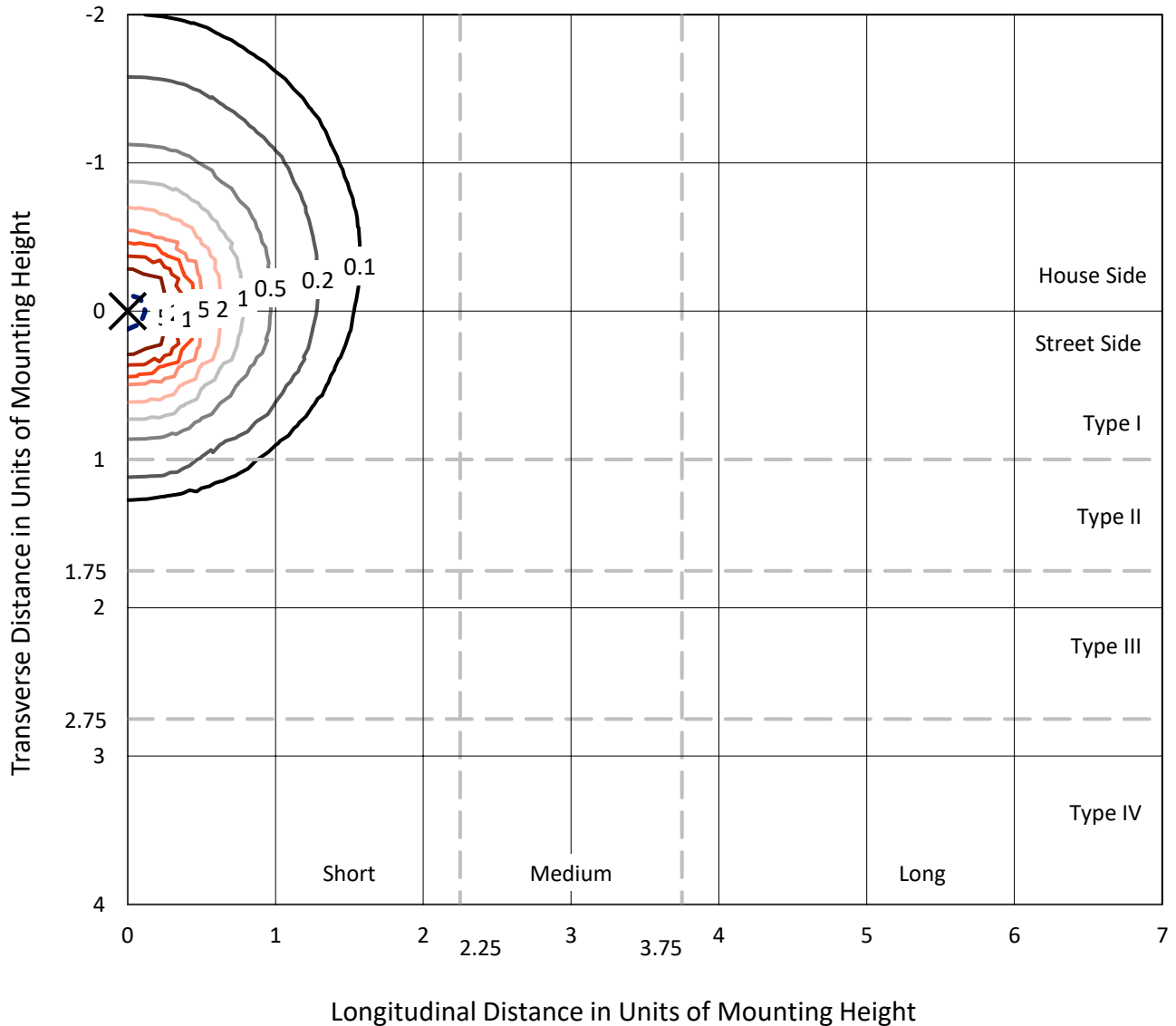
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

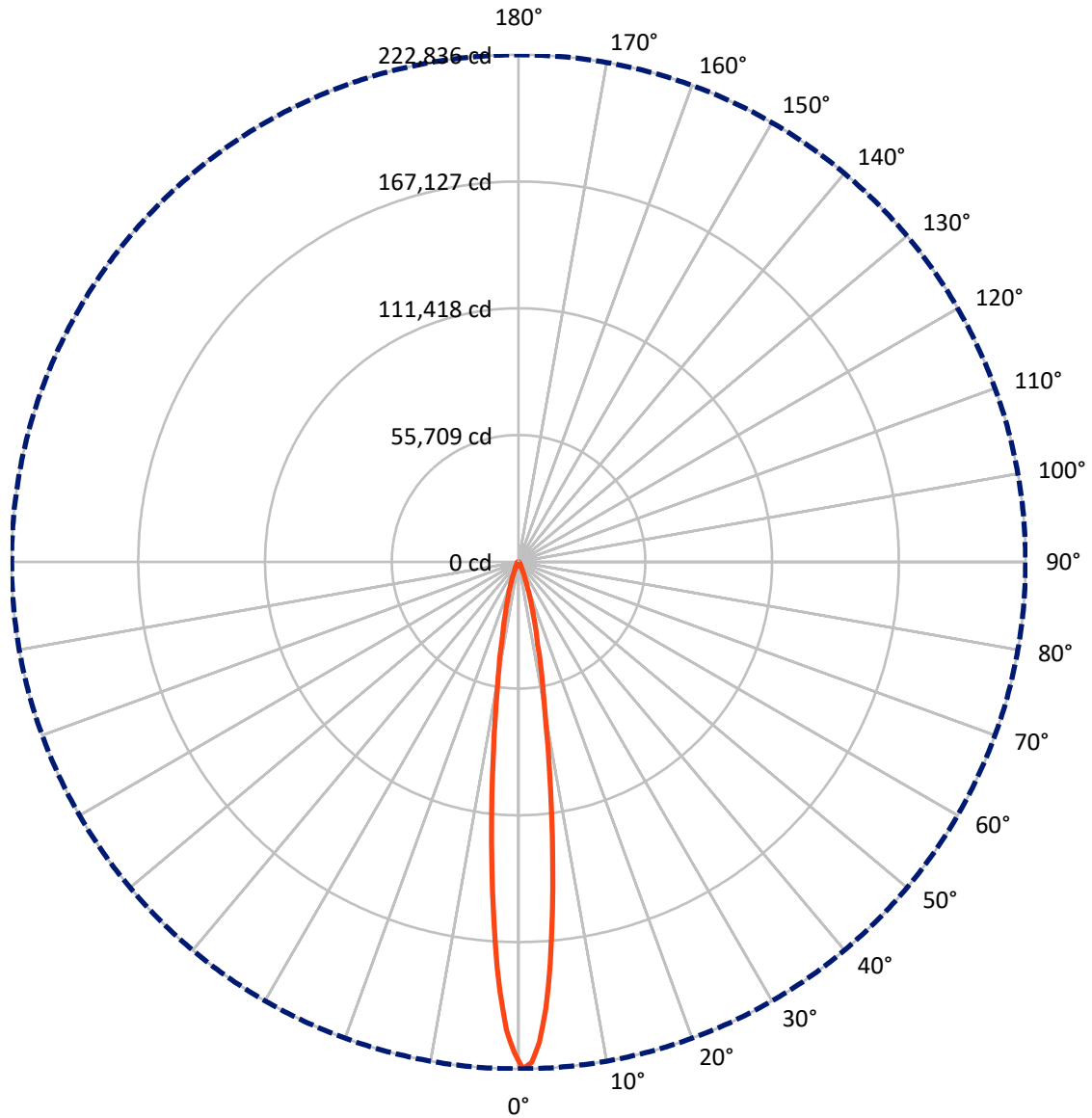
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 557.1 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	11489.9	0.0	11489.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	10943.4	0.0	10943.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	22433.3	0.0	22433.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11325.0	50.5
10°-20°	7250.2	32.3
20°-30°	2179.3	9.7
30°-40°	709.6	3.2
40°-50°	412.8	1.8
50°-60°	274.2	1.2
60°-70°	165.1	0.7
70°-80°	84.8	0.4
80°-90°	32.2	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°	22433.3	100.0
0°-180°	22433.3	100.0

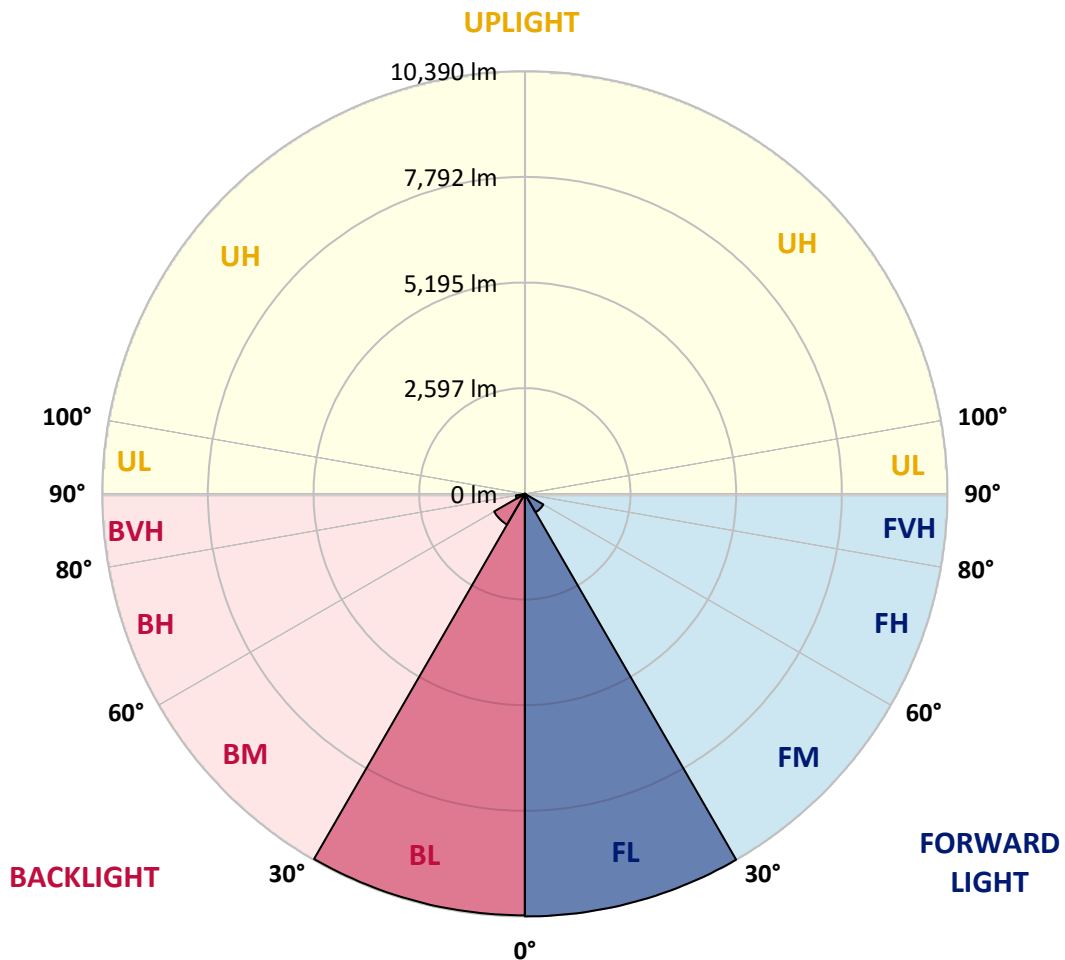


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10389.6	46.3			
FM (30°-60°)	524.3	2.3			
FH (60°-80°)	24.7	0.1			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	10364.9	46.2	B5		
BM (30°-60°)	872.4	3.9	B1/1000		
BH (60°-80°)	225.2	1.0	B1/500		G0/660
BVH (80°-90°)	27.4	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°	222835.7	222835.7	222835.7	222835.7	222835.7	222835.7	222835.7	222835.7	222835.7	222835.7
1°	220167.6	219495.6	217760.9	218994.8	220079.6	219764.4	219742.4	219625.1	219461.4	220746.6
2°	211366.6	210931.7	208366.2	209424.2	210965.9	209842.0	210545.7	209927.5	209939.7	211474.1
3°	196530.6	196767.6	192675.0	194597.9	196740.8	194016.4	194861.8	196450.0	194786.1	194285.2
4°	177247.7	175190.4	172954.8	174909.4	175464.1	173878.4	175437.2	177382.1	175070.7	175173.3
5°	155233.2	153713.4	151067.3	152274.3	150898.7	151399.6	153735.4	154536.8	152924.2	150893.8
6°	132598.0	131518.0	128209.8	129949.4	129460.7	129177.3	132126.4	129683.1	130562.7	129333.7
7°	110295.1	108276.9	106652.1	108318.5	108426.0	107573.2	111402.0	110957.3	109356.9	108985.5
8°	91381.2	89367.9	87992.3	89233.5	90044.7	88705.7	90506.5	91689.0	90438.1	90550.4
9°	73703.6	73349.3	71436.1	73058.5	73940.6	72506.3	74500.1	74927.7	73757.3	74326.6
10°	60516.8	60103.9	58576.8	59234.1	60695.2	58984.8	60898.0	61037.3	60103.9	60370.2
12.5°	37397.9	37231.7	37190.2	37285.5	37265.9	37568.9	38057.6	37500.5	37427.2	36506.0
15°	24172.0	24418.8	24164.7	24653.4	24724.2	25010.1	24712.0	24262.4	23404.8	22979.7
17.5°	15085.2	15400.4	15835.3	16551.2	17267.1	17350.2	16954.4	16426.6	16011.3	15556.8
20°	8678.8	8832.7	8766.7	9624.3	11476.4	11979.7	11469.1	10914.4	10413.5	9954.2
22.5°	5392.5	5336.3	5438.9	5727.2	6330.7	7887.1	7469.3	6914.7	6550.6	6171.9
25°	3305.8	3366.9	3327.8	3486.7	3757.9	4417.6	4512.9	4273.4	4087.7	3892.3
27.5°	2128.2	2128.2	2145.3	2233.2	2418.9	2396.9	2905.1	2719.4	2619.3	2524.0
30°	1478.2	1483.1	1483.1	1534.4	1576.0	1502.7	1634.6	1874.0	1827.6	1754.3
32.5°	1097.1	1111.7	1123.9	1150.8	1116.6	1038.4	1070.2	1348.7	1321.9	1295.0
35°	835.6	847.8	877.2	891.8	843.0	794.1	764.8	992.0	1004.2	996.9
37.5°	608.4	615.7	669.5	725.7	669.5	625.5	608.4	762.3	821.0	813.6
40°	466.7	469.1	478.9	542.4	542.4	508.2	513.1	569.3	671.9	671.9
42.5°	400.7	400.7	410.5	400.7	403.2	439.8	452.0	459.3	569.3	569.3
45°	347.0	347.0	351.8	327.4	303.0	378.7	388.5	390.9	478.9	491.1
47.5°	290.8	290.8	300.5	268.8	256.6	300.5	327.4	334.7	412.9	422.7
50°	215.0	217.5	246.8	219.9	227.2	232.1	283.4	288.3	349.4	371.4
52.5°	144.2	144.2	149.0	171.0	197.9	190.6	229.7	246.8	278.5	307.9
55°	117.3	117.3	114.8	110.0	146.6	158.8	168.6	205.2	227.2	263.9
57.5°	80.6	85.5	78.2	90.4	95.3	119.7	127.1	161.3	173.5	222.3
60°	9.8	12.2	17.1	66.0	63.5	80.6	95.3	127.1	141.7	171.0
62.5°	2.4	2.4	4.9	12.2	44.0	53.8	75.7	88.0	102.6	131.9
65°	0.0	0.0	2.4	4.9	9.8	29.3	39.1	51.3	73.3	92.8
67.5°	0.0	0.0	2.4	4.9	4.9	12.2	19.5	31.8	39.1	68.4
70°	0.0	0.0	2.4	4.9	4.9	9.8	12.2	14.7	26.9	36.7
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	12.2	12.2	24.4
75°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	12.2	9.8	9.8
77.5°	0.0	0.0	2.4	4.9	9.8	12.2	14.7	12.2	7.3	7.3
80°	0.0	0.0	2.4	7.3	12.2	17.1	19.5	14.7	7.3	4.9
82.5°	0.0	0.0	4.9	9.8	14.7	19.5	26.9	22.0	9.8	4.9
85°	0.0	0.0	2.4	7.3	14.7	19.5	39.1	26.9	12.2	2.4
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	14.7	9.8	4.9	2.4
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°
222835.7	0°	222835.7	222835.7	222835.7	222835.7	222835.7	222835.7	222835.7	222835.7	222835.7
219263.5	1°	220795.5	220949.4	220446.1	221225.5	220951.9	219349.0	218818.8	218190.9	217286.9
210572.5	2°	209927.5	210711.8	210750.9	211615.9	211603.6	209734.5	209155.4	210223.1	208139.0
195301.6	3°	194710.3	195624.1	194800.7	196337.6	195875.8	193608.4	193019.5	194231.4	192716.6
175984.5	4°	175459.2	175285.7	175002.3	174127.6	175205.1	173658.5	172493.0	174137.4	170897.5
153586.4	5°	153278.5	152892.4	152340.3	152081.3	152882.7	151893.1	149496.2	151898.0	146119.5
131557.1	6°	131718.4	130056.9	129976.3	129832.1	129912.8	127142.0	127308.2	129096.7	124288.2
107707.6	7°	108846.2	109151.6	108528.6	109527.9	108765.6	106889.1	106165.9	108049.7	104651.0
91044.0	8°	90408.7	90022.7	89546.2	91039.1	89717.3	88485.8	87642.9	89130.9	86606.9
74419.5	9°	74280.2	73613.2	73129.4	73053.6	73258.9	70947.5	71416.6	72543.0	71023.2
60516.8	10°	60538.8	59444.2	59710.5	59781.4	59556.6	58041.7	58056.4	58444.9	56617.2
37116.9	12.5°	36984.9	36447.4	36581.8	36655.1	37112.0	36579.4	35826.8	35284.4	35010.7
23402.4	15°	23246.0	22860.0	23649.2	24179.4	24071.9	23597.8	23243.6	22752.4	22356.6
15556.8	17.5°	15412.6	15918.4	15920.9	16404.6	16453.5	15979.5	15705.8	15263.6	15283.1
10117.9	20°	10081.3	10291.4	10728.7	11070.8	11268.7	10907.1	10579.7	10276.7	10149.7
6308.7	22.5°	6308.7	6675.2	6948.9	7393.6	7574.4	7310.5	7078.4	6831.6	6680.1
3938.7	25°	3872.7	4134.1	4361.4	4747.4	4994.2	4867.1	4654.6	4481.1	4400.5
2543.5	27.5°	2582.6	2692.6	2805.0	3071.3	3327.8	3257.0	3171.5	3066.4	3029.8
1793.4	30°	1820.3	1830.1	1949.8	2098.8	2269.9	2313.8	2274.8	2221.0	2179.5
1317.0	32.5°	1341.4	1380.5	1436.7	1529.5	1644.4	1749.4	1729.9	1705.5	1685.9
1006.7	35°	1036.0	1094.6	1141.0	1211.9	1273.0	1373.2	1390.3	1382.9	1368.3
828.3	37.5°	845.4	896.7	943.1	984.7	1036.0	1104.4	1158.1	1160.6	1145.9
684.1	40°	701.2	747.7	808.7	840.5	877.2	928.5	994.4	999.3	994.4
579.1	42.5°	591.3	635.3	696.4	735.4	762.3	811.2	877.2	886.9	877.2
496.0	45°	508.2	535.1	598.6	645.0	671.9	703.7	774.5	784.3	781.9
427.6	47.5°	442.2	469.1	508.2	574.2	598.6	627.9	684.1	701.2	701.2
378.7	50°	388.5	415.4	449.6	508.2	544.9	569.3	615.7	640.2	640.2
329.9	52.5°	344.5	371.4	408.0	454.5	496.0	518.0	562.0	593.7	593.7
268.8	55°	288.3	334.7	361.6	403.2	459.3	478.9	513.1	554.6	554.6
234.6	57.5°	251.7	290.8	329.9	364.1	420.3	444.7	478.9	518.0	522.9
185.7	60°	212.6	249.2	295.6	325.0	378.7	410.5	447.1	483.8	493.6
141.7	62.5°	168.6	217.5	249.2	290.8	342.1	383.6	412.9	449.6	464.2
110.0	65°	124.6	178.4	215.0	259.0	307.9	351.8	376.3	415.4	425.1
78.2	67.5°	90.4	139.3	183.3	224.8	271.2	315.2	339.6	373.8	381.2
48.9	70°	70.9	102.6	151.5	188.1	237.0	273.7	300.5	322.5	329.9
31.8	72.5°	41.5	78.2	122.2	163.7	207.7	232.1	251.7	271.2	276.1
14.7	75°	26.9	61.1	100.2	136.8	168.6	190.6	207.7	224.8	227.2
7.3	77.5°	17.1	44.0	80.6	114.8	129.5	156.4	171.0	180.8	175.9
4.9	80°	9.8	34.2	70.9	92.8	105.1	122.2	136.8	149.0	136.8
4.9	82.5°	7.3	29.3	58.6	78.2	78.2	97.7	105.1	105.1	100.2
2.4	85°	4.9	24.4	46.4	73.3	58.6	73.3	68.4	68.4	68.4
2.4	87.5°	4.9	17.1	22.0	31.8	26.9	31.8	31.8	36.7	36.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
222835.7
215703.6
205700.5
188848.7
168185.4
145569.7
123911.9
102926.0
84881.9
69024.6
55801.2
34954.5
22500.8
15153.6
10171.7
6699.7
4380.9
3005.3
2184.4
1685.9
1358.5
1143.5
992.0
879.6
781.9
703.7
642.6
593.7
557.1
520.4
493.6
466.7
422.7
376.3
329.9
276.1
224.8
175.9
134.4
97.7
66.0
36.7
0.0

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