

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: P637989

Luminaire Tested: **IFLD-S-SA3A-827-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637989  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-827-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8528.2 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

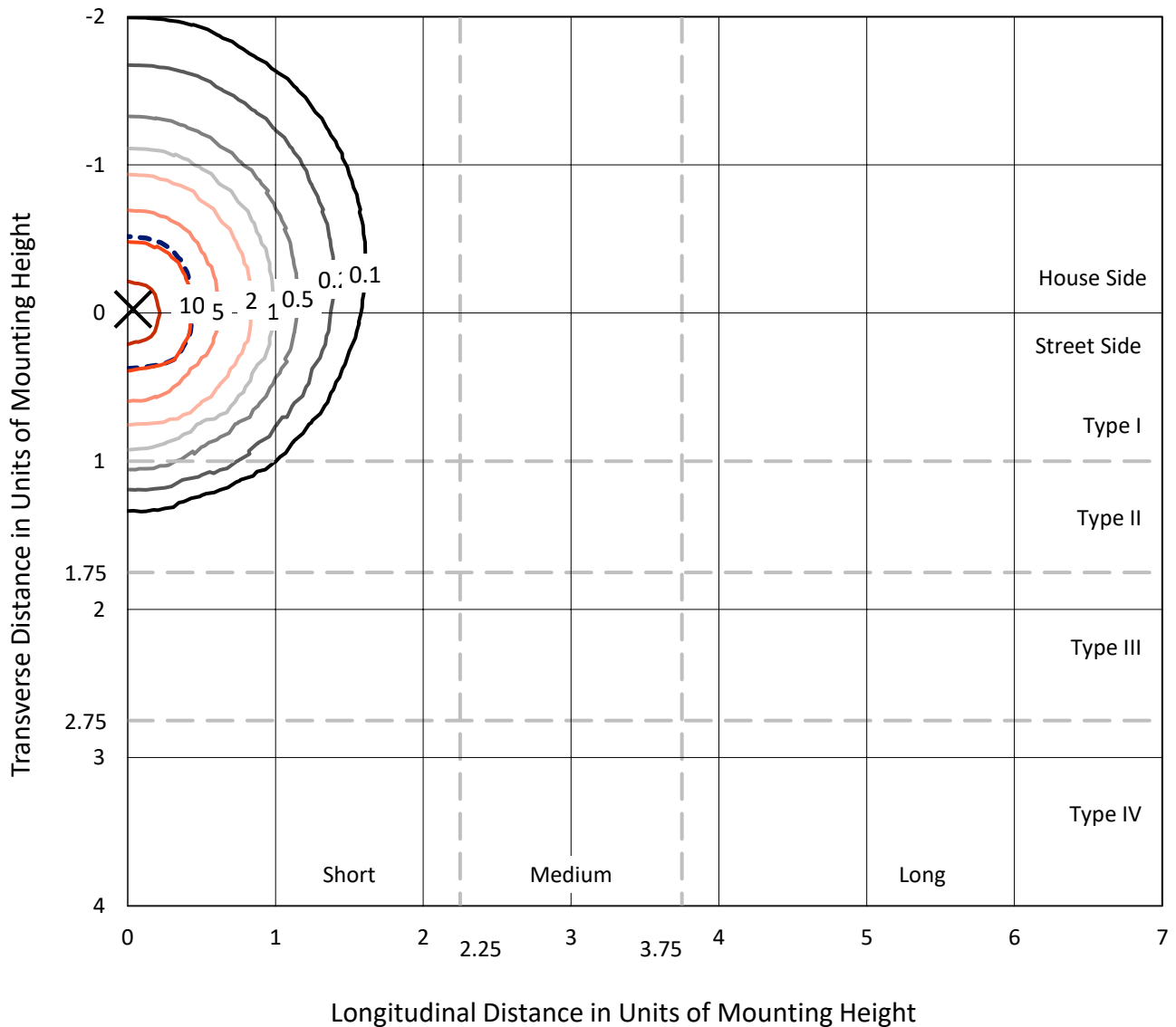
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

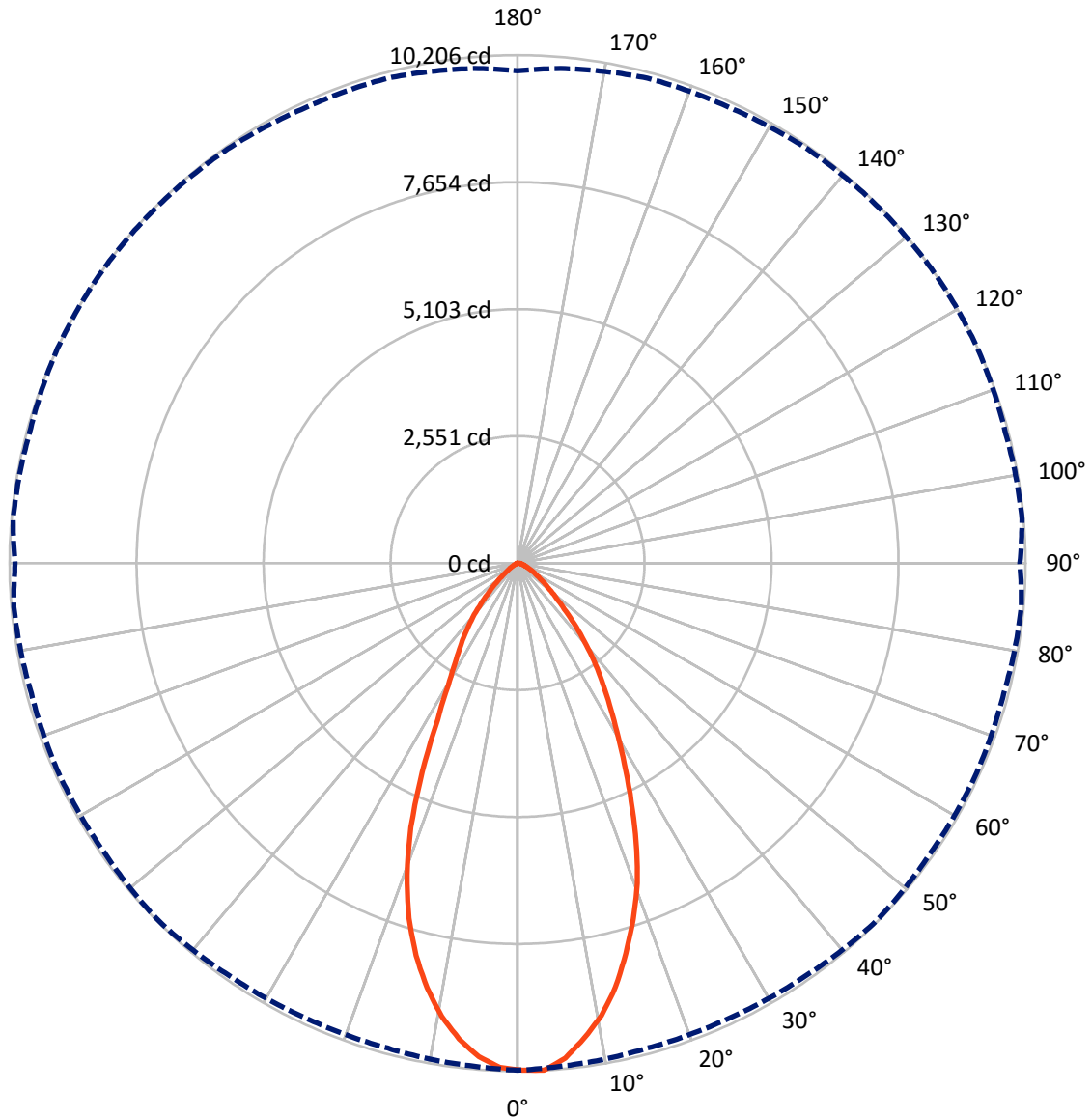
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4839.2	0.0	4839.2
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	3689.0	0.0	3689.0
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	8528.2	0.0	8528.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	925.2	10.8
10°-20°	2205.5	25.9
20°-30°	2246.2	26.3
30°-40°	1675.0	19.6
40°-50°	875.1	10.3
50°-60°	368.1	4.3
60°-70°	150.3	1.8
70°-80°	63.3	0.7
80°-90°	19.5	0.2
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°	8528.2	100.0
0°-180°	8528.2	100.0



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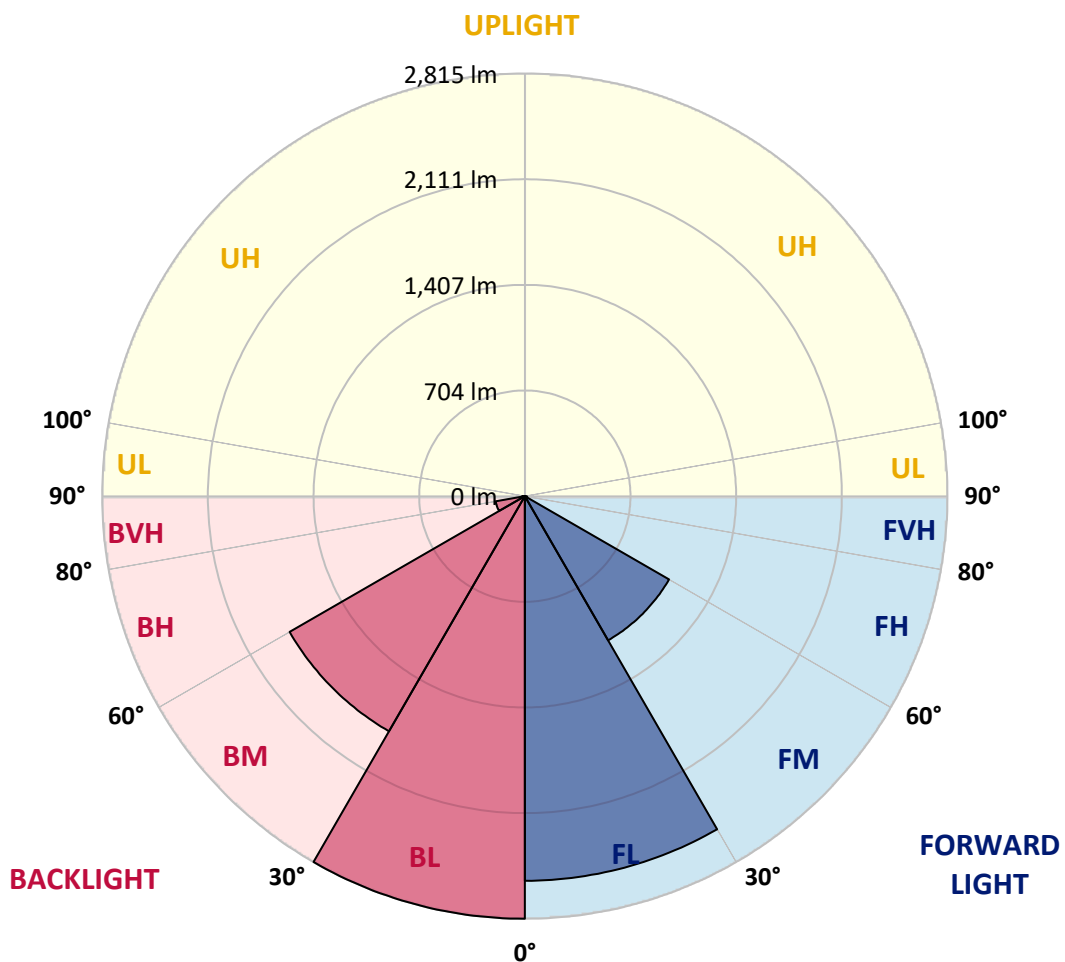
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2562.0	30.0			
FM (30°-60°)	1109.1	13.0			
FH (60°-80°)	16.1	0.2			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	2815.0	33.0	B4/5000		
BM (30°-60°)	1809.0	21.2	B2/2500		
BH (60°-80°)	197.5	2.3	B1/500		G1/500
BVH (80°-90°)	17.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10189.1	10189.1	10189.1	10189.1	10189.1	10189.1	10189.1	10189.1	10189.1	10189.1
2.5°	10190.2	10148.6	10089.4	10083.9	10114.6	10181.4	10138.7	10140.9	10114.6	10159.5
5°	10030.2	9990.8	9950.3	9896.6	9941.5	9970.0	9948.1	9924.0	9890.0	9933.8
7.5°	9727.9	9706.0	9645.7	9621.6	9649.0	9680.8	9633.7	9627.1	9580.0	9637.0
10°	9265.6	9256.8	9197.7	9183.4	9207.5	9255.7	9234.9	9230.5	9201.0	9195.5
12.5°	8785.8	8751.8	8678.4	8674.0	8710.2	8782.5	8726.6	8672.9	8689.4	8703.6
15°	7550.1	7513.9	7695.8	7981.7	8131.8	8126.3	8142.7	8078.1	8058.4	8064.9
17.5°	6002.1	5940.8	6006.5	6449.1	7162.3	7576.4	7462.4	7323.3	7248.8	7199.5
20°	5180.5	5183.8	5171.8	5285.7	5730.5	6674.8	6647.4	6379.0	6281.5	6241.0
22.5°	4681.0	4662.4	4636.1	4672.2	4791.6	5346.0	5717.3	5470.8	5436.9	5392.0
25°	4191.3	4191.3	4159.5	4195.7	4229.7	4237.3	4609.8	4710.6	4644.8	4644.8
27.5°	3767.4	3745.5	3731.2	3747.6	3702.7	3486.9	3534.0	4050.0	4005.1	3977.7
30°	3346.7	3340.1	3316.0	3337.9	3171.4	2928.2	2829.6	3417.9	3465.0	3455.2
32.5°	2762.8	2789.1	2896.5	2930.4	2645.6	2449.5	2355.3	2837.3	3025.7	3018.1
35°	1877.7	1899.6	2022.3	2427.6	2193.2	2052.9	2025.5	2256.7	2566.7	2596.3
37.5°	1495.3	1492.0	1527.1	1599.4	1762.6	1728.7	1721.0	1781.3	2093.5	2106.6
40°	1232.4	1228.0	1226.9	1167.8	1127.3	1437.3	1416.5	1380.3	1650.9	1677.2
42.5°	993.6	998.0	1001.3	872.0	812.8	1108.6	1096.6	1059.3	1294.9	1325.5
45°	780.0	778.9	785.5	649.6	633.2	708.8	819.4	789.8	977.2	1010.0
47.5°	404.2	418.5	507.2	502.8	510.5	502.8	620.0	612.4	735.1	787.7
50°	271.7	276.1	283.7	284.8	402.0	370.3	420.7	476.5	514.9	595.9
52.5°	210.3	213.6	193.9	181.9	246.5	273.9	276.1	329.7	359.3	441.5
55°	117.2	131.5	141.3	142.4	135.8	202.7	201.6	244.3	267.3	322.1
57.5°	15.3	18.6	28.5	92.0	90.9	112.8	141.3	177.5	190.6	235.5
60°	1.1	2.2	3.3	14.2	60.3	65.7	96.4	110.6	132.6	165.4
62.5°	0.0	0.0	1.1	3.3	12.1	38.3	50.4	58.1	77.8	108.5
65°	0.0	0.0	1.1	2.2	4.4	14.2	19.7	31.8	46.0	66.8
67.5°	0.0	0.0	1.1	2.2	3.3	5.5	8.8	14.2	24.1	40.5
70°	0.0	0.0	1.1	2.2	3.3	4.4	6.6	8.8	13.1	21.9
72.5°	0.0	0.0	1.1	1.1	2.2	5.5	5.5	6.6	8.8	12.1
75°	0.0	0.0	1.1	2.2	3.3	5.5	5.5	5.5	6.6	7.7
77.5°	0.0	0.0	1.1	2.2	3.3	5.5	4.4	5.5	5.5	5.5
80°	0.0	0.0	1.1	2.2	3.3	5.5	6.6	5.5	4.4	4.4
82.5°	0.0	0.0	1.1	3.3	3.3	7.7	7.7	7.7	3.3	3.3
85°	0.0	0.0	2.2	3.3	5.5	8.8	8.8	6.6	3.3	2.2
87.5°	0.0	0.0	1.1	2.2	2.2	4.4	6.6	5.5	2.2	1.1
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°
10189.1	0°	10189.1	10189.1	10189.1	10189.1	10189.1	10189.1	10189.1	10189.1	10189.1
10093.8	2.5°	10174.8	10147.5	10198.9	10205.5	10183.6	10156.2	10092.7	10087.2	9976.6
9870.3	5°	9982.0	9937.1	9970.0	9991.9	9984.2	9954.7	9928.4	9904.3	9804.6
9507.7	7.5°	9622.7	9606.3	9621.6	9638.1	9669.8	9638.1	9627.1	9601.9	9503.3
9150.6	10°	9224.0	9193.3	9251.4	9243.7	9234.9	9226.2	9180.1	9184.5	9068.4
8664.2	12.5°	8734.3	8682.8	8738.7	8745.2	8738.7	8708.0	8656.5	8678.4	8572.2
8006.9	15°	8075.9	8070.4	8111.0	8137.2	8155.9	8123.0	8105.5	8116.4	8052.9
7161.2	17.5°	7267.4	7338.6	7471.2	7516.1	7517.2	7551.2	7541.3	7528.2	7481.1
6224.5	20°	6316.6	6453.5	6657.2	6866.5	6926.7	6898.3	6885.1	6909.2	6839.1
5344.9	22.5°	5439.1	5556.3	5792.9	6098.6	6274.9	6292.5	6289.2	6268.4	6241.0
4640.5	25°	4694.1	4798.2	5025.0	5304.3	5642.8	5693.2	5695.4	5688.8	5664.7
4001.8	27.5°	4065.3	4191.3	4316.2	4566.0	4926.4	5134.5	5108.2	5100.6	5091.8
3462.8	30°	3495.7	3654.5	3771.7	3927.3	4250.5	4532.0	4559.4	4546.3	4525.4
3017.0	32.5°	3044.3	3138.6	3287.5	3392.7	3625.0	3943.7	4048.9	4039.0	4020.4
2614.9	35°	2652.2	2689.4	2806.6	2923.8	3078.3	3387.2	3542.8	3520.9	3517.6
2130.7	37.5°	2184.4	2309.3	2373.9	2492.2	2600.7	2840.6	3055.3	3045.4	3046.5
1713.3	40°	1763.7	1836.0	1964.2	2063.9	2163.6	2338.9	2577.7	2584.2	2582.1
1326.6	42.5°	1354.0	1424.1	1558.9	1667.3	1756.1	1864.5	2092.4	2100.0	2109.9
1033.0	45°	1057.1	1102.1	1200.6	1313.5	1407.7	1473.4	1646.5	1695.8	1696.9
800.8	47.5°	820.5	872.0	942.1	1050.6	1142.6	1189.7	1315.7	1382.5	1379.2
614.6	50°	644.1	691.2	748.2	833.7	933.4	970.6	1063.7	1129.4	1126.2
463.4	52.5°	493.0	553.2	603.6	669.3	766.8	798.6	865.4	941.0	930.1
339.6	55°	373.6	434.9	482.0	536.8	625.5	666.1	712.1	772.3	774.5
262.9	57.5°	281.5	345.1	387.8	443.7	510.5	555.4	590.5	655.1	654.0
179.7	60°	201.6	256.3	307.8	365.9	417.4	468.9	493.0	554.3	556.5
127.1	62.5°	145.7	197.2	246.5	296.9	342.9	393.3	415.2	463.4	470.0
83.3	65°	101.9	138.0	195.0	233.3	284.8	322.1	350.6	392.2	399.9
49.3	67.5°	65.7	99.7	154.5	188.4	235.5	267.3	296.9	329.7	339.6
31.8	70°	39.4	75.6	115.0	151.2	193.9	222.4	250.9	279.3	284.8
15.3	72.5°	25.2	52.6	83.3	122.7	155.6	186.2	211.4	232.2	215.8
9.9	75°	14.2	36.2	65.7	96.4	126.0	155.6	176.4	187.3	150.1
6.6	77.5°	8.8	26.3	53.7	77.8	97.5	124.9	138.0	144.6	107.4
4.4	80°	5.5	19.7	44.9	63.5	63.5	92.0	107.4	112.8	77.8
3.3	82.5°	4.4	14.2	35.1	48.2	42.7	69.0	84.4	85.4	54.8
2.2	85°	3.3	11.0	21.9	31.8	29.6	48.2	49.3	54.8	36.2
2.2	87.5°	2.2	6.6	13.1	18.6	16.4	23.0	26.3	29.6	19.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
10189.1
9890.0
9724.6
9482.5
9029.0
8541.5
7976.2
7410.9
6788.7
6188.4
5583.7
5040.3
4499.1
3971.1
3481.4
3011.5
2543.7
2077.0
1668.4
1367.2
1126.2
931.2
774.5
651.8
551.0
467.8
397.7
338.5
280.4
200.5
142.4
100.8
72.3
50.4
32.9
17.5
0.0

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