

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: P636800

Luminaire Tested: **IFLD-S-SA3A-940-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636800  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-940-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7647.2 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

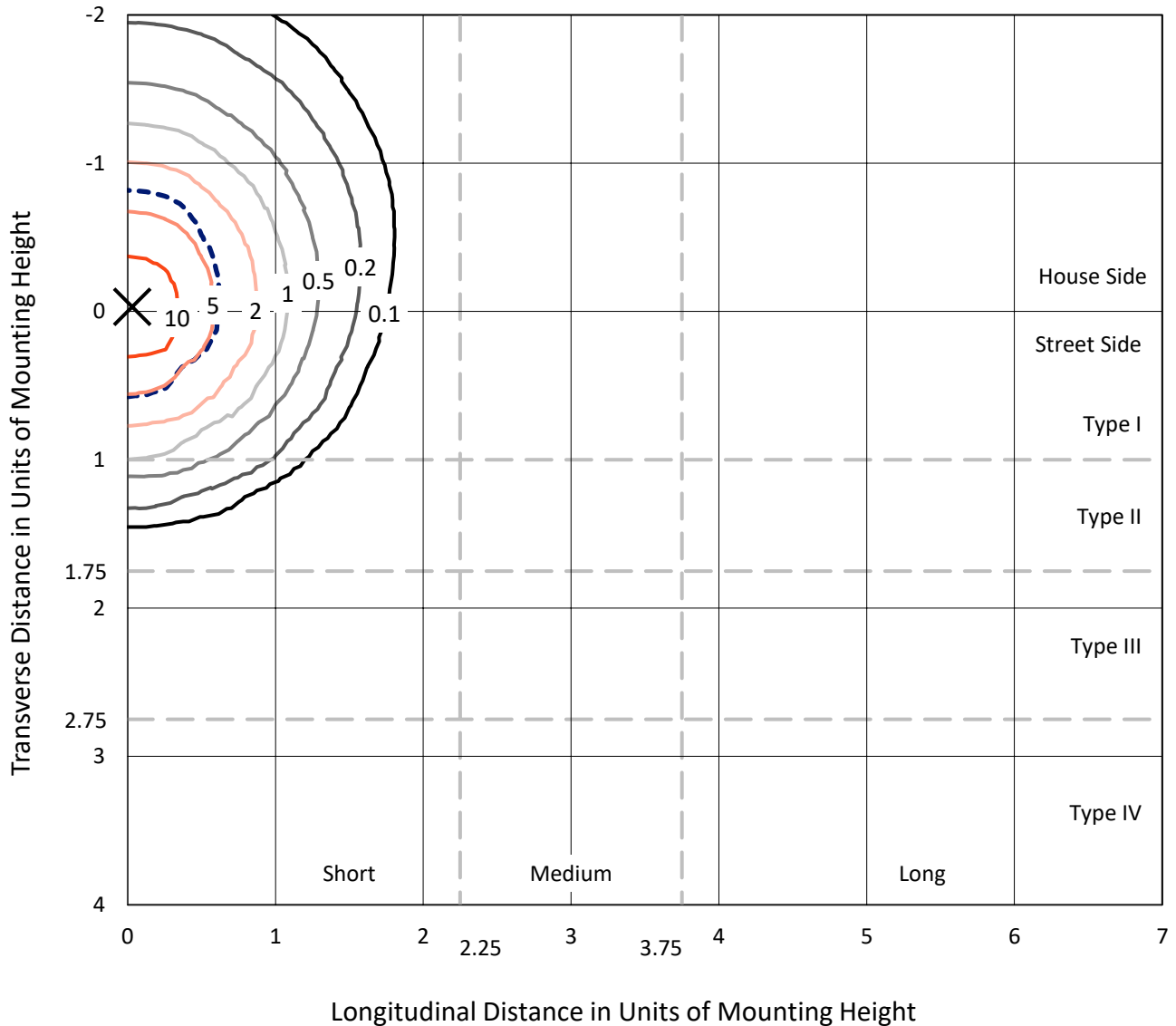
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

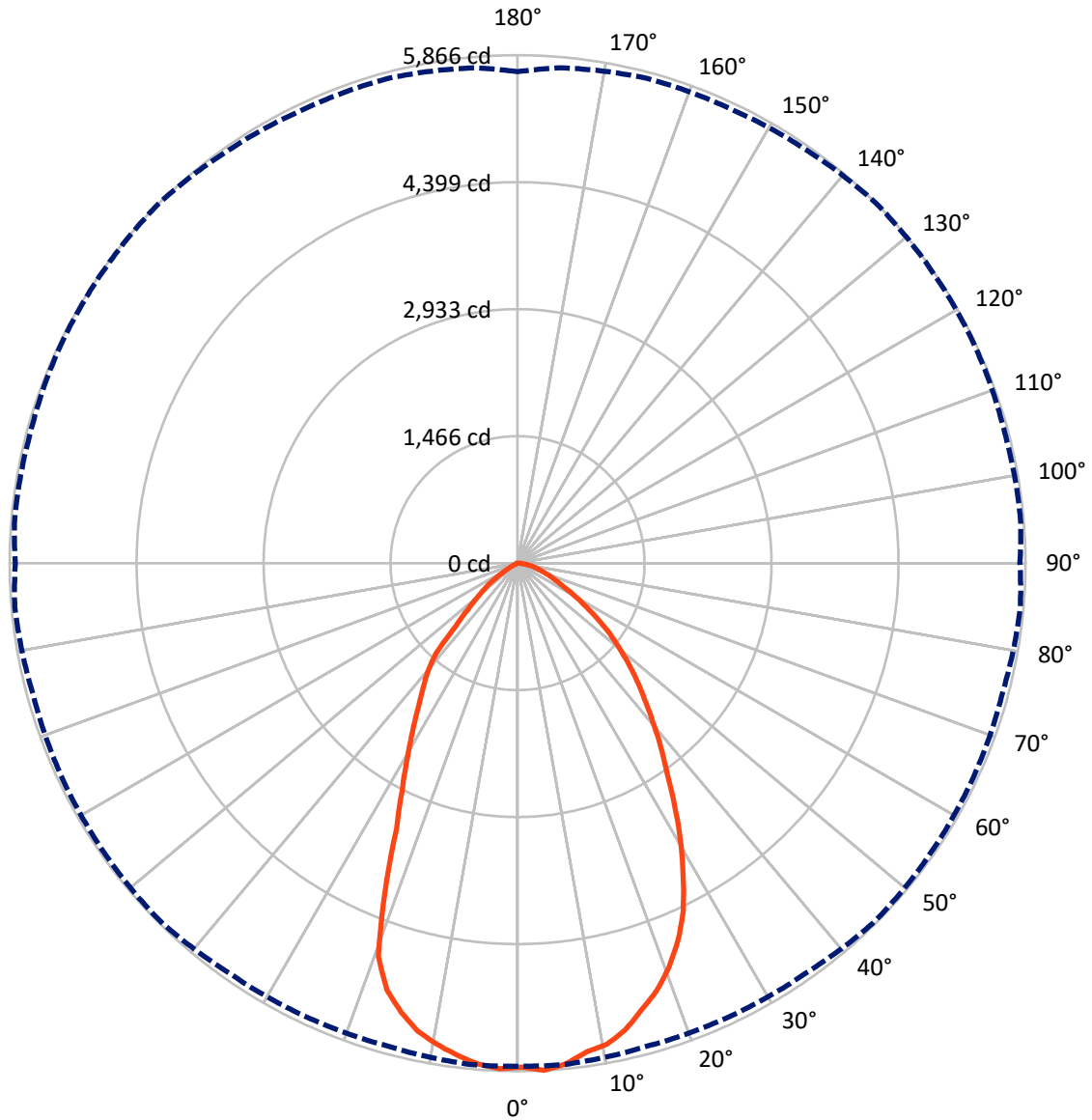
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4529.0	0.0	4529.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3118.1	0.0	3118.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	7647.2	0.0	7647.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.8	7.1
10°-20°	1463.5	19.1
20°-30°	1784.9	23.3
30°-40°	1629.5	21.3
40°-50°	1177.6	15.4
50°-60°	643.0	8.4
60°-70°	265.9	3.5
70°-80°	107.7	1.4
80°-90°	29.3	0.4
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°	7647.2	100.0
0°-180°	7647.2	100.0



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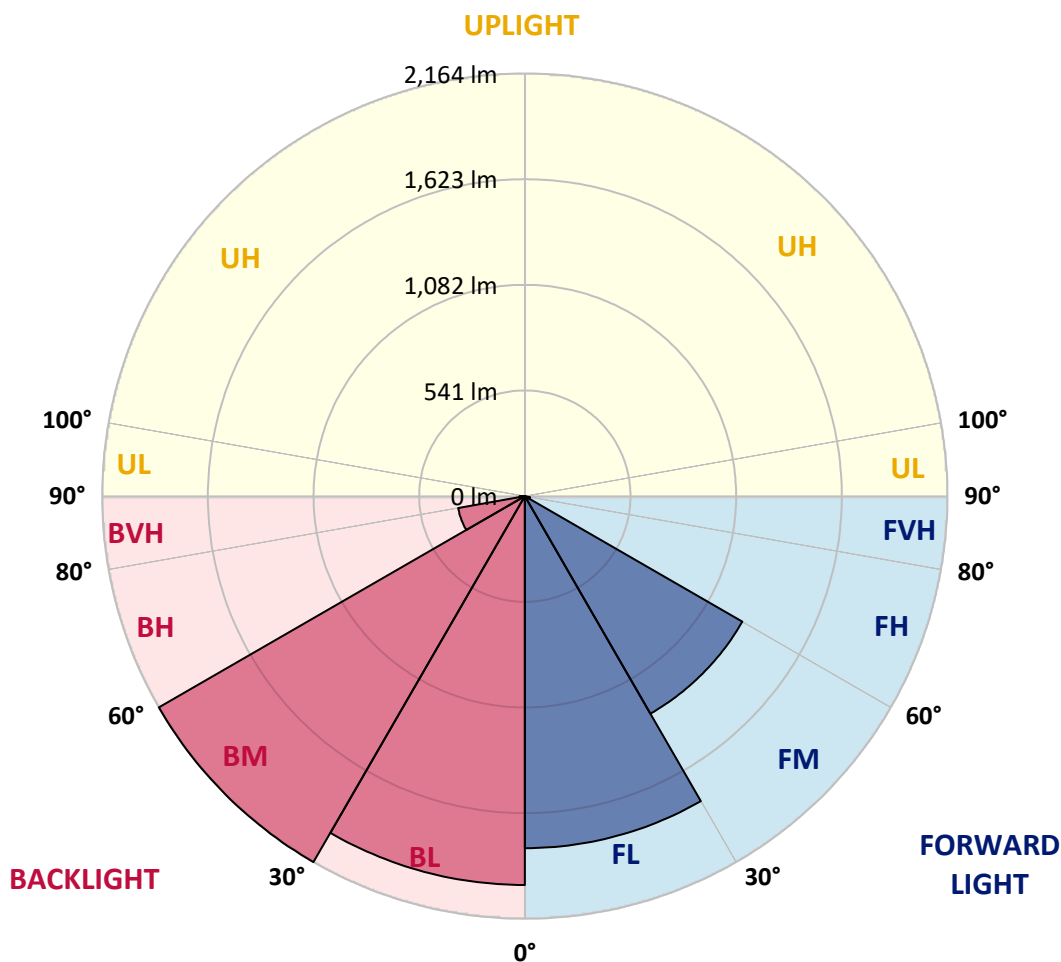
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.7	23.6			
FM (30°-60°)	1286.1	16.8			
FH (60°-80°)	27.0	0.4			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1991.4	26.0	B3/2500		
BM (30°-60°)	2164.1	28.3	B2/2500		
BH (60°-80°)	346.6	4.5	B1/500		G1/500
BVH (80°-90°)	26.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5
2.5°	5808.7	5816.2	5775.3	5779.6	5787.2	5842.1	5828.1	5815.2	5796.9	5828.1
5°	5801.2	5805.5	5762.4	5747.3	5753.8	5803.3	5758.1	5758.1	5753.8	5748.4
7.5°	5743.0	5745.2	5711.8	5684.9	5702.1	5724.7	5691.3	5707.5	5683.8	5702.1
10°	5655.8	5641.8	5601.9	5594.4	5613.8	5635.3	5612.7	5627.8	5606.2	5620.2
12.5°	5527.6	5506.1	5473.8	5464.1	5497.5	5526.6	5508.2	5499.6	5471.6	5506.1
15°	5033.3	5017.2	5090.4	5218.6	5333.8	5358.6	5339.2	5347.8	5289.6	5299.3
17.5°	4142.8	4112.6	4191.2	4494.9	4927.8	5156.1	5138.9	5082.9	4996.7	5016.1
20°	3764.8	3756.2	3747.5	3819.7	4122.3	4814.7	4838.4	4696.3	4573.5	4546.6
22.5°	3551.6	3548.3	3539.7	3555.9	3635.6	4080.3	4351.7	4220.3	4138.5	4130.9
25°	3356.6	3351.3	3325.4	3345.9	3345.9	3371.7	3719.5	3799.2	3727.1	3718.5
27.5°	3158.5	3148.8	3144.5	3154.2	3104.6	2930.2	3018.5	3407.3	3369.6	3371.7
30°	2944.2	2941.0	2929.1	2949.6	2796.7	2580.2	2524.2	3051.9	3059.4	3057.3
32.5°	2625.4	2639.4	2693.3	2715.9	2463.9	2285.1	2191.5	2640.5	2794.5	2791.3
35°	1907.2	1907.2	2082.7	2409.0	2159.1	2024.5	1973.9	2238.8	2532.8	2543.6
37.5°	1567.9	1573.3	1607.8	1756.4	1863.0	1815.6	1800.5	1884.5	2196.8	2214.1
40°	1410.7	1410.7	1410.7	1349.3	1346.1	1635.8	1627.2	1600.2	1897.5	1935.2
42.5°	1267.5	1270.7	1272.9	1117.8	1031.7	1413.9	1394.6	1353.6	1629.3	1673.5
45°	1120.0	1125.3	1131.8	934.7	897.0	1017.7	1180.3	1135.0	1364.4	1421.5
47.5°	683.8	692.4	838.9	792.6	796.9	785.0	962.7	955.2	1118.9	1199.6
50°	462.0	465.2	479.2	502.9	683.8	617.1	681.7	790.4	849.7	972.4
52.5°	387.7	393.1	358.6	326.3	449.1	482.4	476.0	586.9	610.6	762.4
55°	272.5	289.7	273.5	270.3	255.2	374.8	360.8	451.2	466.3	579.4
57.5°	28.0	32.3	56.0	201.4	166.9	212.1	257.4	330.6	345.7	427.5
60°	2.2	2.2	5.4	28.0	121.7	127.1	177.7	203.5	232.6	298.3
62.5°	0.0	1.1	2.2	4.3	19.4	67.8	89.4	106.6	140.0	192.8
65°	0.0	0.0	1.1	3.2	4.3	25.8	34.5	56.0	76.5	119.5
67.5°	0.0	0.0	1.1	2.2	3.2	6.5	11.8	20.5	40.9	67.8
70°	0.0	0.0	1.1	2.2	3.2	5.4	8.6	12.9	18.3	36.6
72.5°	0.0	0.0	1.1	1.1	2.2	5.4	6.5	8.6	12.9	18.3
75°	0.0	0.0	1.1	1.1	3.2	6.5	5.4	6.5	8.6	11.8
77.5°	0.0	0.0	1.1	2.2	3.2	6.5	5.4	6.5	6.5	7.5
80°	0.0	0.0	1.1	2.2	4.3	7.5	6.5	6.5	5.4	5.4
82.5°	0.0	0.0	1.1	3.2	4.3	9.7	9.7	8.6	4.3	3.2
85°	0.0	0.0	2.2	4.3	6.5	10.8	10.8	8.6	3.2	2.2
87.5°	0.0	0.0	2.2	3.2	5.4	7.5	10.8	8.6	3.2	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°
5819.5	0°	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5	5819.5
5801.2	2.5°	5830.2	5823.8	5845.3	5853.9	5865.8	5820.5	5792.5	5793.6	5741.9
5735.5	5°	5769.9	5771.0	5799.0	5796.9	5808.7	5783.9	5773.2	5754.9	5709.6
5652.5	7.5°	5693.5	5683.8	5710.7	5731.2	5701.0	5718.2	5693.5	5702.1	5675.2
5579.3	10°	5634.2	5611.6	5636.4	5650.4	5651.5	5634.2	5610.6	5587.9	5578.2
5465.2	12.5°	5502.9	5473.8	5515.8	5535.2	5531.9	5498.6	5471.6	5477.0	5445.8
5264.9	15°	5321.9	5323.0	5353.2	5371.5	5354.3	5346.7	5348.9	5335.9	5309.0
4988.1	17.5°	5045.2	5061.3	5141.0	5185.2	5194.9	5179.8	5172.3	5157.2	5130.3
4546.6	20°	4584.3	4681.2	4823.4	4960.1	4987.0	4982.7	4955.8	4949.3	4934.3
4109.4	22.5°	4179.4	4251.5	4416.3	4629.5	4739.4	4750.1	4717.8	4708.1	4692.0
3718.5	25°	3760.5	3838.0	3986.6	4218.1	4445.4	4491.7	4486.3	4457.2	4440.0
3371.7	27.5°	3407.3	3484.8	3619.4	3828.3	4071.7	4220.3	4234.3	4188.0	4186.9
3062.7	30°	3088.5	3195.1	3297.4	3467.6	3703.4	3926.3	3950.0	3917.7	3920.9
2779.4	32.5°	2838.7	2927.0	3014.2	3128.3	3324.3	3583.9	3676.5	3646.3	3634.5
2543.6	35°	2583.4	2643.7	2733.1	2837.6	2971.1	3228.5	3388.9	3366.3	3354.5
2224.8	37.5°	2292.7	2396.1	2460.7	2578.1	2682.5	2887.1	3113.3	3110.0	3085.3
1953.5	40°	1994.4	2103.1	2201.1	2319.6	2400.4	2563.0	2813.9	2812.8	2816.0
1672.4	42.5°	1724.1	1824.2	1942.7	2071.9	2149.5	2267.9	2537.1	2552.2	2570.5
1440.9	45°	1479.6	1570.1	1679.9	1837.2	1930.8	1998.7	2237.8	2306.7	2305.6
1234.1	47.5°	1260.0	1345.0	1437.6	1590.6	1710.1	1771.5	1969.6	2067.6	2061.2
1012.3	50°	1057.5	1132.9	1229.8	1340.7	1501.2	1555.0	1702.5	1831.8	1822.1
806.6	52.5°	850.7	955.2	1037.0	1138.3	1307.3	1360.1	1474.3	1600.2	1592.7
605.2	55°	663.4	764.6	863.7	950.9	1093.0	1171.6	1253.5	1382.7	1380.6
473.8	57.5°	501.8	612.7	706.4	789.4	902.4	999.3	1065.0	1182.4	1197.5
324.1	60°	371.5	456.6	557.8	650.4	739.8	840.0	884.1	999.3	1005.8
221.8	62.5°	253.1	346.8	445.8	529.8	596.6	700.0	739.8	834.6	846.4
142.1	65°	175.5	235.8	348.9	409.2	491.1	579.4	619.2	694.6	718.3
81.8	67.5°	116.3	168.0	272.5	327.4	408.1	468.4	519.1	580.4	606.3
51.7	70°	63.5	123.8	194.9	258.5	328.4	386.6	436.1	485.7	508.3
23.7	72.5°	43.1	82.9	135.7	204.6	264.9	322.0	366.1	402.8	403.8
14.0	75°	21.5	56.0	103.4	158.3	206.8	262.8	302.6	324.1	298.3
8.6	77.5°	12.9	40.9	84.0	127.1	168.0	212.1	234.8	246.6	204.6
6.5	80°	7.5	29.1	65.7	101.2	116.3	156.1	177.7	180.9	136.8
4.3	82.5°	5.4	21.5	51.7	74.3	71.1	109.8	133.5	129.2	87.2
3.2	85°	3.2	15.1	32.3	46.3	43.1	72.2	77.5	79.7	50.6
2.2	87.5°	2.2	8.6	17.2	24.8	20.5	31.2	31.2	37.7	24.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
5819.5
5675.2
5698.9
5629.9
5535.2
5418.9
5282.1
5118.4
4899.8
4687.7
4421.7
4184.8
3904.8
3635.6
3338.3
3105.7
2816.0
2560.8
2307.8
2063.3
1830.7
1608.9
1385.9
1191.0
1015.5
848.6
712.9
603.1
499.7
394.1
278.9
197.1
128.1
80.8
46.3
21.5
0.0

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