

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: P638250

Luminaire Tested: **IFLD-S-SA3A-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638250  
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-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7779.5 lumens  
Efficiency: N/A  
Efficacy: 82.1 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

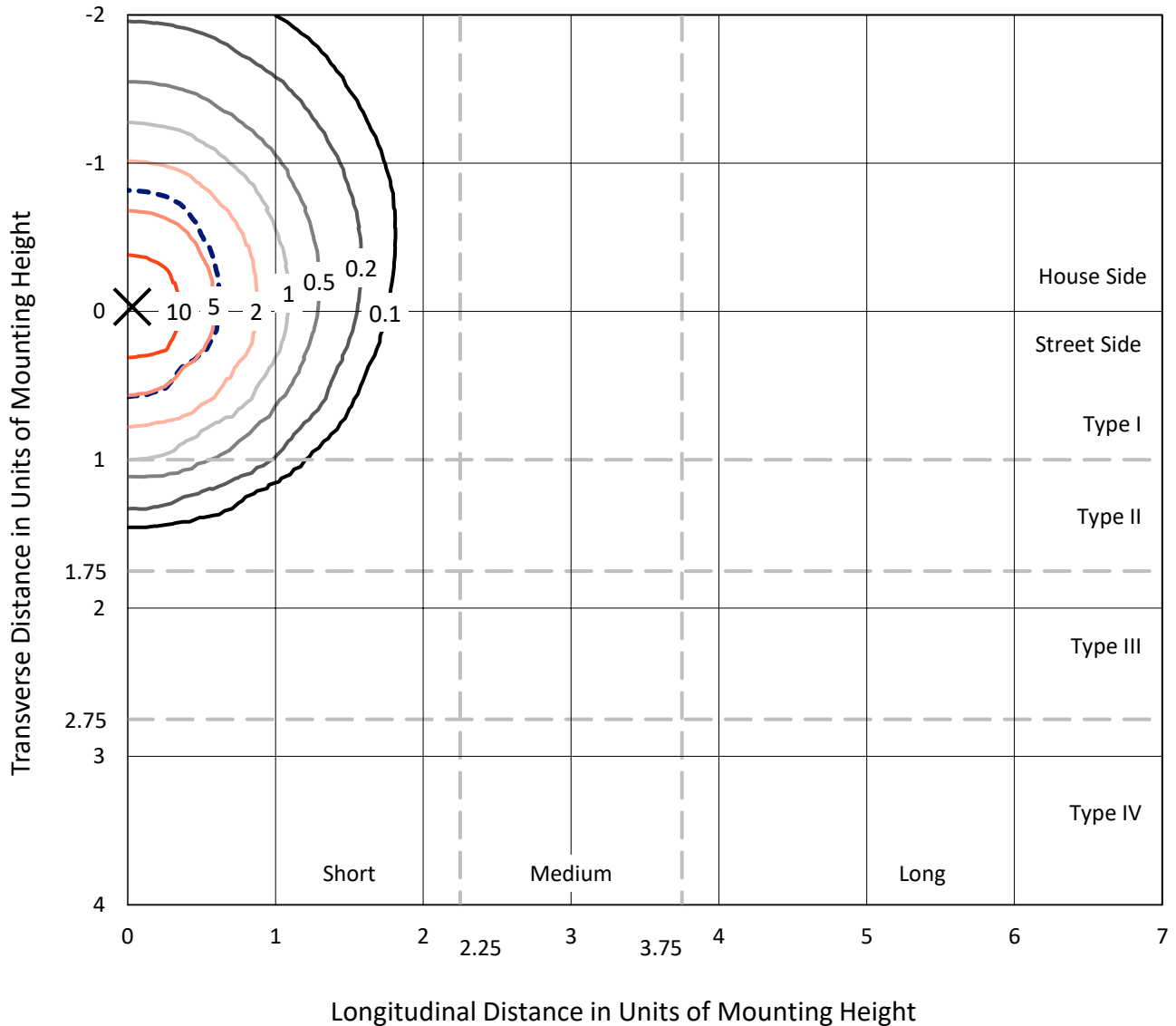
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

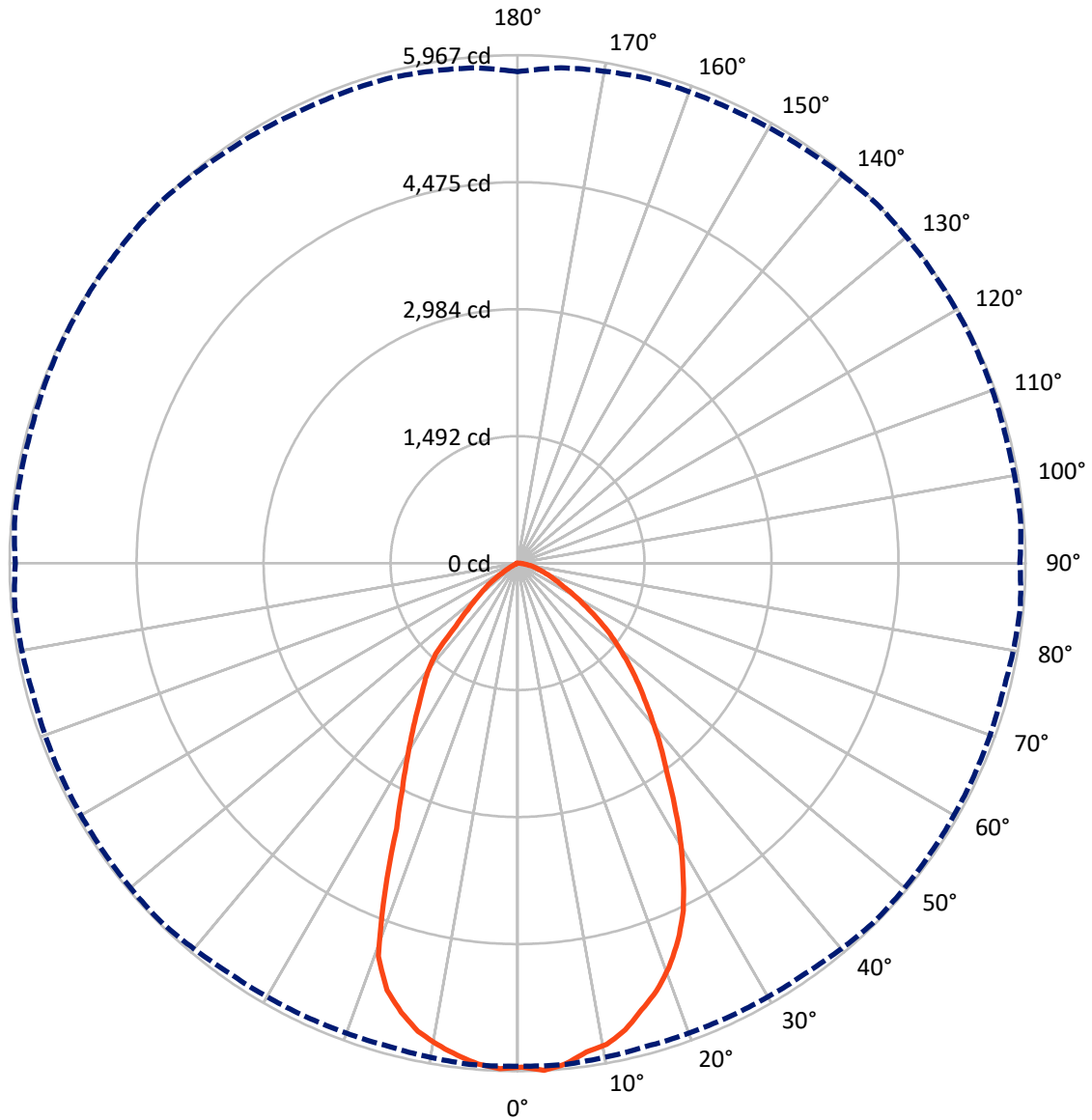
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.8 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	4607.4	0.0	4607.4
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3172.1	0.0	3172.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	7779.5	0.0	7779.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.2	7.1
10°-20°	1488.8	19.1
20°-30°	1815.7	23.3
30°-40°	1657.7	21.3
40°-50°	1198.0	15.4
50°-60°	654.1	8.4
60°-70°	270.5	3.5
70°-80°	109.5	1.4
80°-90°	29.8	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°	7779.5	100.0
0°-180°	7779.5	100.0



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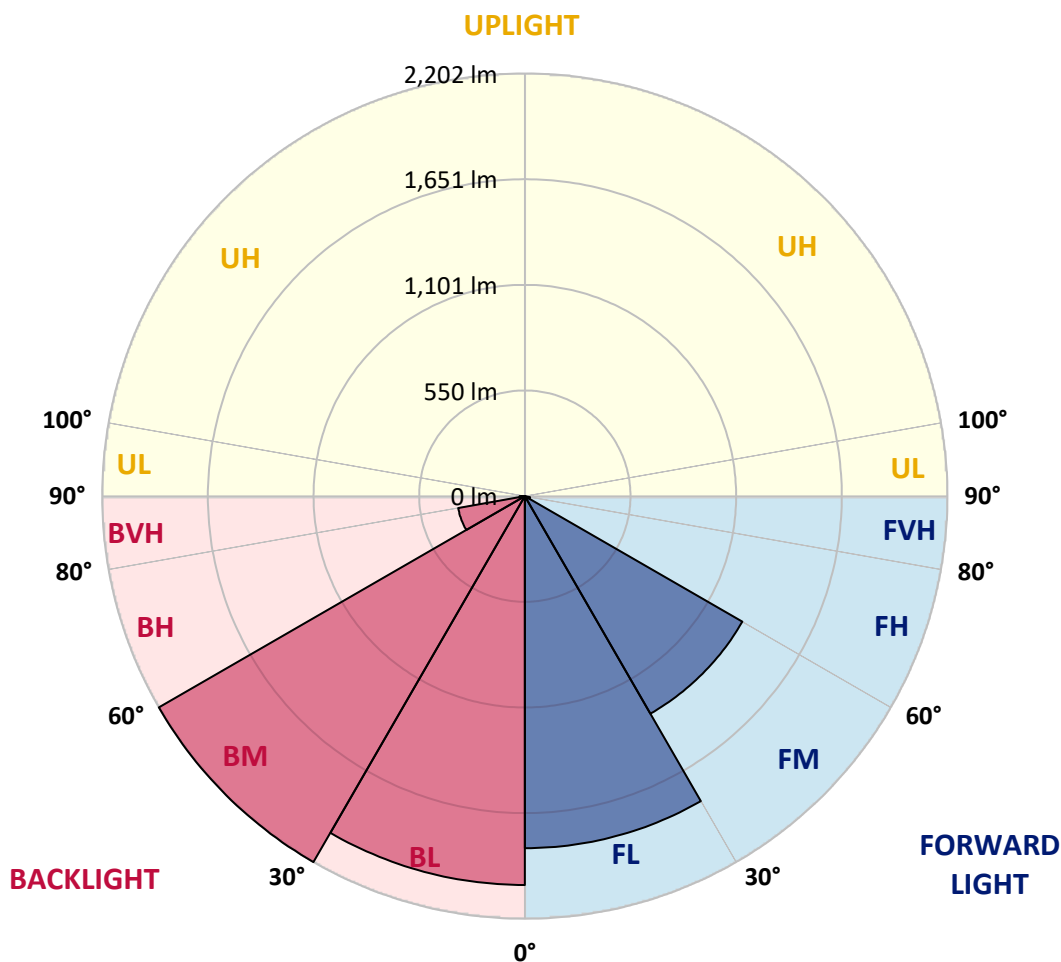
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1833.9	23.6			
FM (30°-60°)	1308.4	16.8			
FH (60°-80°)	27.4	0.4			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	2025.9	26.0	B3/2500		
BM (30°-60°)	2201.5	28.3	B2/2500		
BH (60°-80°)	352.6	4.5	B1/500		G1/500
BVH (80°-90°)	27.4	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°	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1
2.5°	5909.2	5916.8	5875.2	5879.6	5887.3	5943.1	5928.9	5915.8	5897.1	5928.9
5°	5901.5	5905.9	5862.1	5846.7	5853.3	5903.7	5857.7	5857.7	5853.3	5847.8
7.5°	5842.4	5844.5	5810.6	5783.2	5800.7	5823.7	5789.8	5806.2	5782.1	5800.7
10°	5753.6	5739.4	5698.8	5691.2	5710.9	5732.8	5709.8	5725.1	5703.2	5717.5
12.5°	5623.3	5601.3	5568.5	5558.6	5592.6	5622.2	5603.5	5594.8	5566.3	5601.3
15°	5120.4	5104.0	5178.5	5308.8	5426.1	5451.3	5431.5	5440.3	5381.1	5391.0
17.5°	4214.4	4183.8	4263.7	4572.7	5013.1	5245.3	5227.8	5170.8	5083.2	5102.9
20°	3829.9	3821.1	3812.4	3885.8	4193.6	4898.0	4922.1	4777.5	4652.6	4625.2
22.5°	3613.0	3609.7	3600.9	3617.4	3698.4	4150.9	4427.0	4293.3	4210.0	4202.4
25°	3414.7	3409.2	3382.9	3403.7	3403.7	3430.0	3783.9	3865.0	3791.6	3782.8
27.5°	3213.1	3203.3	3198.9	3208.7	3158.4	2980.9	3070.7	3466.2	3427.9	3430.0
30°	2995.1	2991.8	2979.8	3000.6	2845.0	2624.8	2567.9	3104.7	3112.3	3110.2
32.5°	2670.9	2685.1	2739.9	2762.9	2506.5	2324.7	2229.4	2686.2	2842.8	2839.6
35°	1940.1	1940.1	2118.7	2450.7	2196.5	2059.6	2008.1	2277.6	2576.6	2587.6
37.5°	1595.1	1600.5	1635.6	1786.8	1895.2	1847.0	1831.7	1917.1	2234.8	2252.4
40°	1435.1	1435.1	1435.1	1372.7	1369.4	1664.1	1655.3	1627.9	1930.3	1968.6
42.5°	1289.4	1292.7	1294.9	1137.1	1049.5	1438.4	1418.7	1377.1	1657.5	1702.4
45°	1139.3	1144.8	1151.4	950.9	912.6	1035.3	1200.7	1154.7	1388.0	1446.1
47.5°	695.6	704.4	853.4	806.3	810.7	798.6	979.4	971.7	1138.2	1220.4
50°	470.0	473.3	487.5	511.6	695.6	627.7	693.5	804.1	864.4	989.2
52.5°	394.4	399.9	364.8	331.9	456.8	490.8	484.2	597.1	621.2	775.6
55°	277.2	294.7	278.3	275.0	259.6	381.2	367.0	459.0	474.4	589.4
57.5°	28.5	32.9	57.0	204.9	169.8	215.8	261.8	336.3	351.7	434.9
60°	2.2	2.2	5.5	28.5	123.8	129.3	180.8	207.1	236.6	303.5
62.5°	0.0	1.1	2.2	4.4	19.7	69.0	90.9	108.5	142.4	196.1
65°	0.0	0.0	1.1	3.3	4.4	26.3	35.1	57.0	77.8	121.6
67.5°	0.0	0.0	1.1	2.2	3.3	6.6	12.1	20.8	41.6	69.0
70°	0.0	0.0	1.1	2.2	3.3	5.5	8.8	13.1	18.6	37.2
72.5°	0.0	0.0	1.1	1.1	2.2	5.5	6.6	8.8	13.1	18.6
75°	0.0	0.0	1.1	1.1	3.3	6.6	5.5	6.6	8.8	12.1
77.5°	0.0	0.0	1.1	2.2	3.3	6.6	5.5	6.6	6.6	7.7
80°	0.0	0.0	1.1	2.2	4.4	7.7	6.6	6.6	5.5	5.5
82.5°	0.0	0.0	1.1	3.3	4.4	9.9	9.9	8.8	4.4	3.3
85°	0.0	0.0	2.2	4.4	6.6	11.0	11.0	8.8	3.3	2.2
87.5°	0.0	0.0	2.2	3.3	5.5	7.7	11.0	8.8	3.3	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°
5920.1	0°	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1
5901.5	2.5°	5931.1	5924.5	5946.4	5955.2	5967.2	5921.2	5892.7	5893.8	5841.3
5834.7	5°	5869.7	5870.8	5899.3	5897.1	5909.2	5884.0	5873.0	5854.4	5808.4
5750.3	7.5°	5792.0	5782.1	5809.5	5830.3	5799.6	5817.2	5792.0	5800.7	5773.3
5675.8	10°	5731.7	5708.7	5733.9	5748.1	5749.2	5731.7	5707.6	5684.6	5674.7
5559.7	12.5°	5598.1	5568.5	5611.2	5630.9	5627.6	5593.7	5566.3	5571.8	5540.0
5355.9	15°	5414.0	5415.1	5445.8	5464.4	5446.9	5439.2	5441.4	5428.3	5400.9
5074.4	17.5°	5132.5	5148.9	5230.0	5274.9	5284.7	5269.4	5261.7	5246.4	5219.0
4625.2	20°	4663.6	4762.2	4906.8	5045.9	5073.3	5068.9	5041.5	5035.0	5019.6
4180.5	22.5°	4251.7	4325.1	4492.7	4709.6	4821.3	4832.3	4799.4	4789.6	4773.1
3782.8	25°	3825.5	3904.4	4055.6	4291.1	4522.3	4569.4	4563.9	4534.3	4516.8
3430.0	27.5°	3466.2	3545.1	3682.0	3894.5	4142.1	4293.3	4307.5	4260.4	4259.3
3115.6	30°	3141.9	3250.4	3354.5	3527.5	3767.5	3994.2	4018.3	3985.5	3988.8
2827.5	32.5°	2887.8	2977.6	3066.3	3182.5	3381.8	3645.9	3740.1	3709.4	3697.3
2587.6	35°	2628.1	2689.5	2780.4	2886.7	3022.5	3284.3	3447.6	3424.6	3412.5
2263.3	37.5°	2332.3	2437.5	2503.2	2622.7	2728.9	2937.1	3167.1	3163.8	3138.6
1987.3	40°	2028.9	2139.5	2239.2	2359.7	2441.9	2607.3	2862.6	2861.5	2864.8
1701.3	42.5°	1753.9	1855.8	1976.3	2107.8	2186.6	2307.1	2581.0	2596.4	2615.0
1465.8	45°	1505.2	1597.3	1709.0	1868.9	1964.2	2033.3	2276.5	2346.6	2345.5
1255.5	47.5°	1281.7	1368.3	1462.5	1618.1	1739.7	1802.1	2003.7	2103.4	2096.8
1029.8	50°	1075.8	1152.5	1251.1	1363.9	1527.1	1581.9	1732.0	1863.5	1853.6
820.5	52.5°	865.5	971.7	1055.0	1158.0	1329.9	1383.6	1499.8	1627.9	1620.3
615.7	55°	674.8	777.8	878.6	967.3	1111.9	1191.9	1275.2	1406.6	1404.4
482.0	57.5°	510.5	623.3	718.7	803.0	918.0	1016.6	1083.5	1202.9	1218.2
329.7	60°	378.0	464.5	567.5	661.7	752.6	854.5	899.4	1016.6	1023.2
225.7	62.5°	257.4	352.8	453.5	539.0	606.9	712.1	752.6	849.0	861.1
144.6	65°	178.6	239.9	354.9	416.3	499.6	589.4	629.9	706.6	730.7
83.3	67.5°	118.3	170.9	277.2	333.0	415.2	476.5	528.0	590.5	616.8
52.6	70°	64.6	126.0	198.3	262.9	334.1	393.3	443.7	494.1	517.1
24.1	72.5°	43.8	84.4	138.0	208.1	269.5	327.6	372.5	409.7	410.8
14.2	75°	21.9	57.0	105.2	161.0	210.3	267.3	307.8	329.7	303.5
8.8	77.5°	13.1	41.6	85.4	129.3	170.9	215.8	238.8	250.9	208.1
6.6	80°	7.7	29.6	66.8	103.0	118.3	158.8	180.8	184.0	139.1
4.4	82.5°	5.5	21.9	52.6	75.6	72.3	111.7	135.8	131.5	88.7
3.3	85°	3.3	15.3	32.9	47.1	43.8	73.4	78.9	81.1	51.5
2.2	87.5°	2.2	8.8	17.5	25.2	20.8	31.8	31.8	38.3	25.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
5920.1
5773.3
5797.4
5727.3
5630.9
5512.6
5373.5
5207.0
4984.6
4768.8
4498.2
4257.2
3972.3
3698.4
3396.1
3159.5
2864.8
2605.1
2347.7
2099.0
1862.4
1636.7
1409.9
1211.6
1033.1
863.3
725.2
613.5
508.3
401.0
283.7
200.5
130.4
82.2
47.1
21.9
0.0

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