

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: P638249

Luminaire Tested: **IFLD-S-SA2E-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638249  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10233.9 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

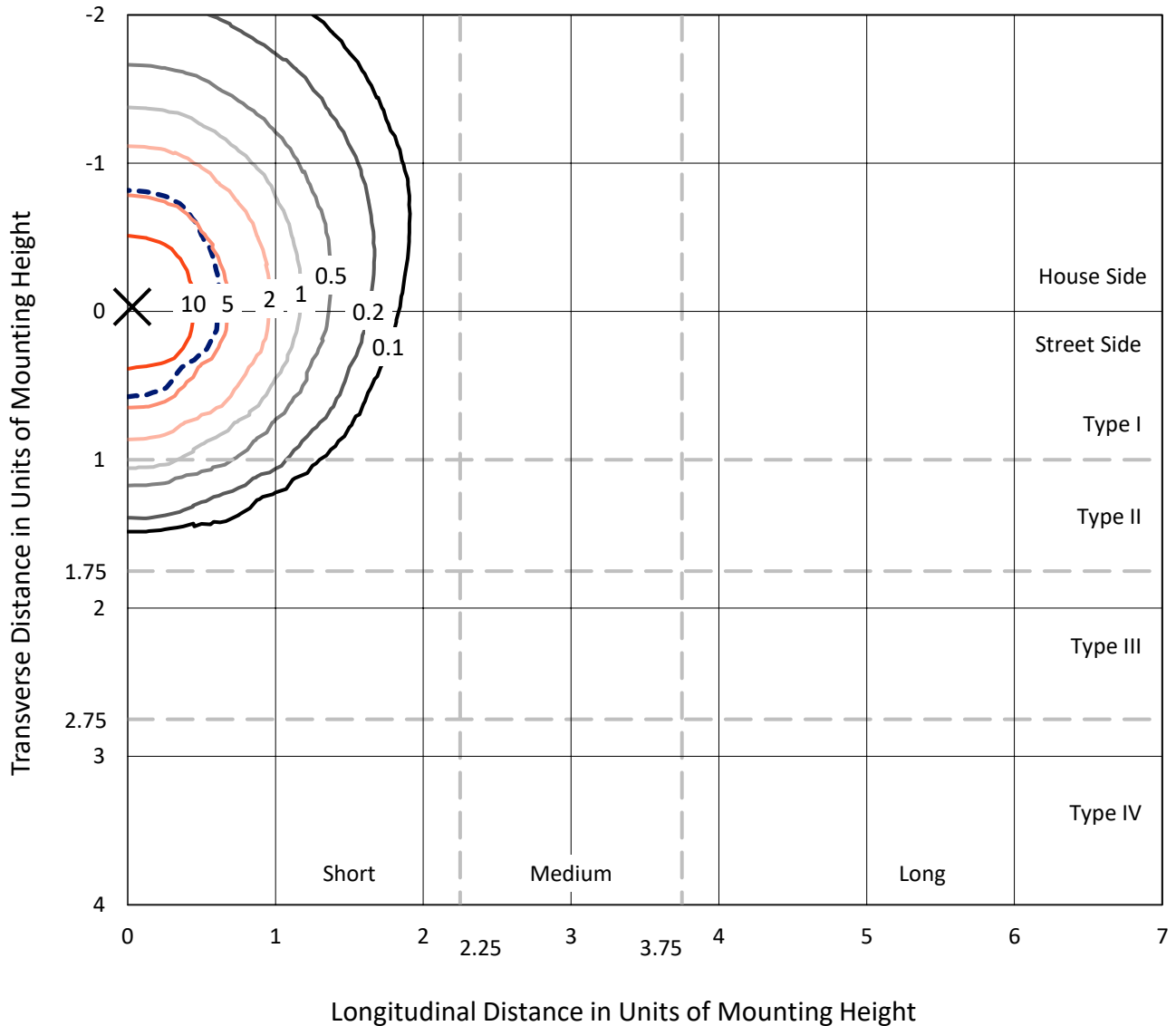
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

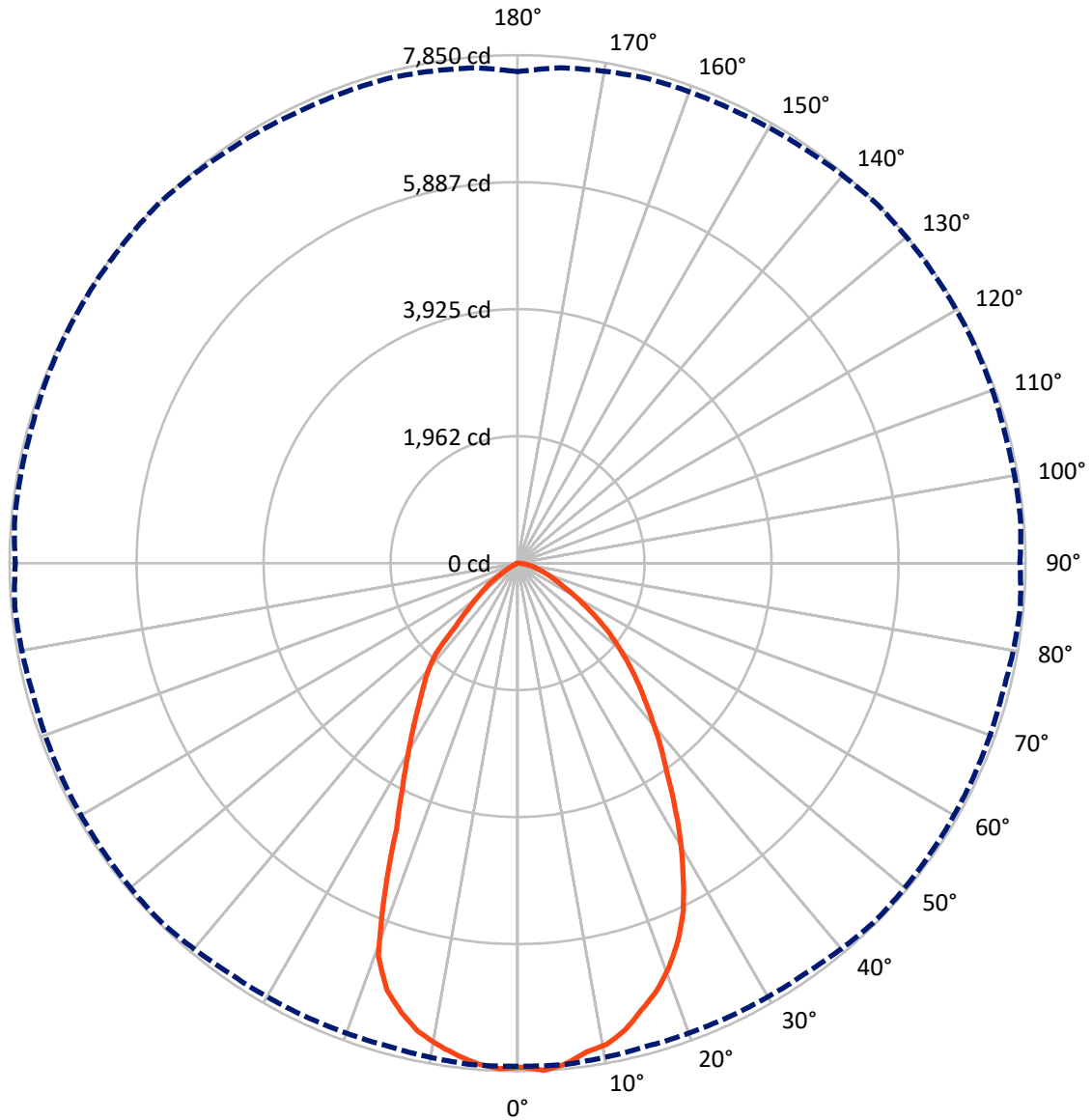
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.5 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	6061.0	0.0	6061.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4172.8	0.0	4172.8
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	10233.9	0.0	10233.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	730.4	7.1
10°-20°	1958.6	19.1
20°-30°	2388.6	23.3
30°-40°	2180.8	21.3
40°-50°	1576.0	15.4
50°-60°	860.5	8.4
60°-70°	355.8	3.5
70°-80°	144.1	1.4
80°-90°	39.2	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°	10233.9	100.0
0°-180°	10233.9	100.0



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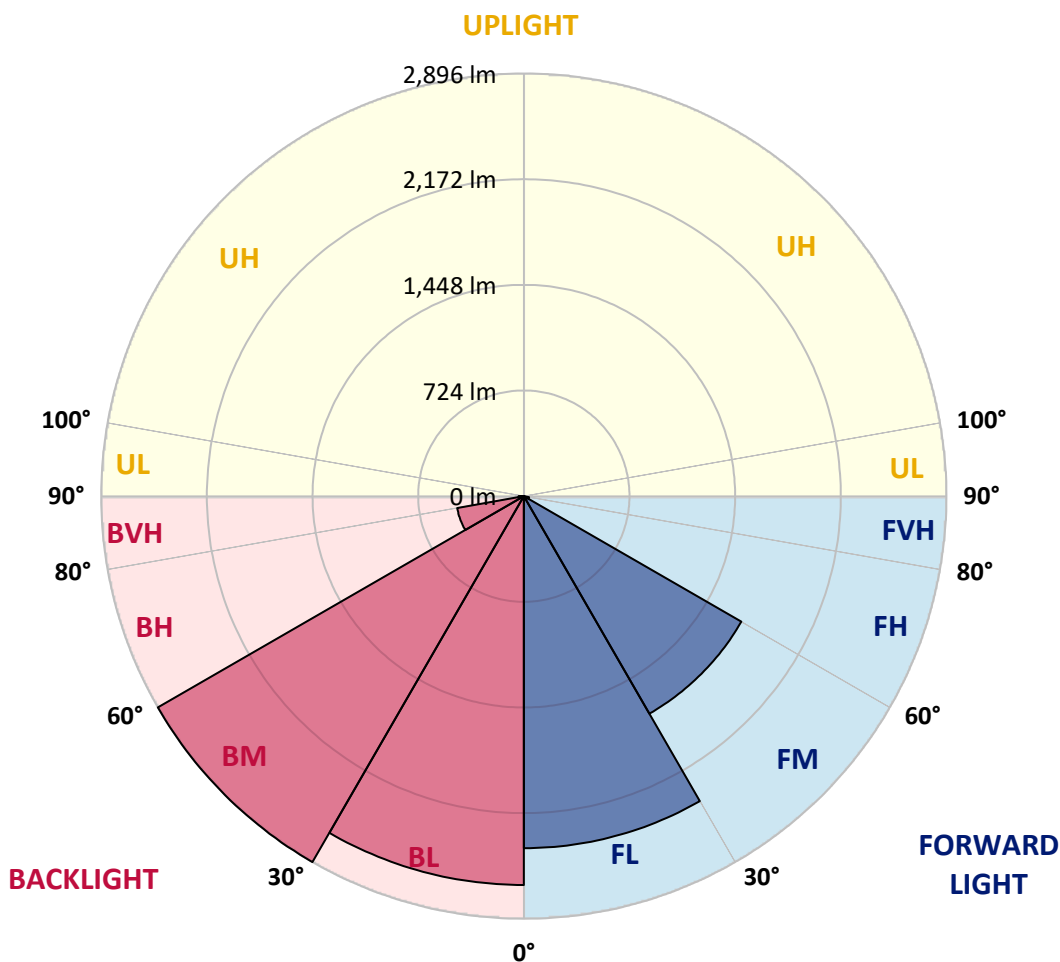
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2412.5	23.6			
FM	(30°-60°)	1721.1	16.8			
FH	(60°-80°)	36.1	0.4			G0/660
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	2665.0	26.0	B4/5000		
BM	(30°-60°)	2896.1	28.3	B3/5000		
BH	(60°-80°)	463.8	4.5	B1/500		G1/500
BVH	(80°-90°)	36.1	0.4			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°	7787.9	7787.9	7787.9	7787.9	7787.9	7787.9	7787.9	7787.9	7787.9	7787.9
2.5°	7773.5	7783.6	7728.9	7734.6	7744.7	7818.2	7799.5	7782.2	7757.7	7799.5
5°	7763.4	7769.2	7711.6	7691.4	7700.0	7766.3	7705.8	7705.8	7700.0	7692.8
7.5°	7685.6	7688.5	7643.8	7607.8	7630.9	7661.1	7616.5	7638.1	7606.4	7630.9
10°	7568.9	7550.2	7496.8	7486.7	7512.7	7541.5	7511.2	7531.4	7502.6	7521.3
12.5°	7397.4	7368.6	7325.3	7312.4	7357.0	7396.0	7371.5	7359.9	7322.5	7368.6
15°	6735.9	6714.3	6812.3	6983.8	7138.0	7171.1	7145.2	7156.7	7078.9	7091.9
17.5°	5544.1	5503.7	5608.9	6015.3	6594.7	6900.2	6877.1	6802.2	6686.9	6712.9
20°	5038.2	5026.7	5015.2	5111.7	5516.7	6443.4	6475.1	6284.8	6120.5	6084.5
22.5°	4752.9	4748.6	4737.0	4758.7	4865.3	5460.5	5823.7	5647.8	5538.3	5528.2
25°	4492.0	4484.8	4450.3	4477.6	4477.6	4512.2	4977.7	5084.4	4987.8	4976.3
27.5°	4226.9	4213.9	4208.1	4221.1	4154.8	3921.4	4039.5	4559.8	4509.3	4512.2
30°	3940.1	3935.8	3919.9	3947.3	3742.7	3453.0	3378.0	4084.2	4094.3	4091.4
32.5°	3513.5	3532.2	3604.3	3634.6	3297.3	3058.1	2932.7	3533.7	3739.8	3735.4
35°	2552.3	2552.3	2787.2	3223.8	2889.5	2709.4	2641.6	2996.1	3389.6	3404.0
37.5°	2098.3	2105.5	2151.6	2350.5	2493.2	2429.8	2409.6	2522.0	2939.9	2963.0
40°	1887.9	1887.9	1887.9	1805.8	1801.4	2189.1	2177.6	2141.5	2539.3	2589.7
42.5°	1696.2	1700.6	1703.4	1495.9	1380.6	1892.2	1866.3	1811.5	2180.5	2239.5
45°	1498.8	1506.0	1514.6	1250.9	1200.5	1361.9	1579.5	1519.0	1825.9	1902.3
47.5°	915.1	926.7	1122.7	1060.7	1066.4	1050.6	1288.4	1278.3	1497.3	1605.4
50°	618.3	622.6	641.3	673.0	915.1	825.8	912.2	1057.8	1137.1	1301.4
52.5°	518.8	526.0	479.9	436.7	601.0	645.6	637.0	785.4	817.1	1020.3
55°	364.6	387.7	366.1	361.7	341.6	501.5	482.8	603.8	624.0	775.3
57.5°	37.5	43.2	74.9	269.5	223.4	283.9	344.4	442.4	462.6	572.1
60°	2.9	2.9	7.2	37.5	162.8	170.1	237.8	272.4	311.3	399.2
62.5°	0.0	1.4	2.9	5.8	25.9	90.8	119.6	142.7	187.3	258.0
65°	0.0	0.0	1.4	4.3	5.8	34.6	46.1	74.9	102.3	160.0
67.5°	0.0	0.0	1.4	2.9	4.3	8.6	15.9	27.4	54.8	90.8
70°	0.0	0.0	1.4	2.9	4.3	7.2	11.5	17.3	24.5	49.0
72.5°	0.0	0.0	1.4	1.4	2.9	7.2	8.6	11.5	17.3	24.5
75°	0.0	0.0	1.4	1.4	4.3	8.6	7.2	8.6	11.5	15.9
77.5°	0.0	0.0	1.4	2.9	4.3	8.6	7.2	8.6	8.6	10.1
80°	0.0	0.0	1.4	2.9	5.8	10.1	8.6	8.6	7.2	7.2
82.5°	0.0	0.0	1.4	4.3	5.8	13.0	13.0	11.5	5.8	4.3
85°	0.0	0.0	2.9	5.8	8.6	14.4	14.4	11.5	4.3	2.9
87.5°	0.0	0.0	2.9	4.3	7.2	10.1	14.4	11.5	4.3	1.4
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°
7787.9	0°	7787.9	7787.9	7787.9	7787.9	7787.9	7787.9	7787.9	7787.9	7787.9
7763.4	2.5°	7802.4	7793.7	7822.5	7834.1	7849.9	7789.4	7751.9	7753.4	7684.2
7675.5	5°	7721.7	7723.1	7760.6	7757.7	7773.5	7740.4	7726.0	7701.5	7641.0
7564.6	7.5°	7619.3	7606.4	7642.4	7669.8	7629.4	7652.5	7619.3	7630.9	7594.8
7466.6	10°	7540.1	7509.8	7543.0	7561.7	7563.1	7540.1	7508.4	7478.1	7465.1
7313.8	12.5°	7364.3	7325.3	7381.5	7407.5	7403.2	7358.5	7322.5	7329.7	7287.9
7045.8	15°	7122.1	7123.6	7163.9	7188.4	7165.4	7155.3	7158.2	7140.9	7104.8
6675.4	17.5°	6751.8	6773.4	6880.0	6939.1	6952.1	6931.9	6921.8	6901.6	6865.6
6084.5	20°	6135.0	6264.7	6454.9	6637.9	6673.9	6668.2	6632.2	6623.5	6603.3
5499.4	22.5°	5593.1	5689.6	5910.1	6195.5	6342.5	6356.9	6313.7	6300.7	6279.1
4976.3	25°	5032.5	5136.2	5335.1	5645.0	5949.0	6011.0	6003.8	5964.9	5941.8
4512.2	27.5°	4559.8	4663.5	4843.7	5123.3	5449.0	5647.8	5666.6	5604.6	5603.2
4098.6	30°	4133.2	4275.9	4412.8	4640.5	4956.1	5254.4	5286.1	5242.9	5247.2
3719.6	32.5°	3798.9	3917.0	4033.8	4186.5	4448.8	4796.1	4920.1	4879.7	4863.9
3404.0	35°	3457.3	3538.0	3657.6	3797.4	3976.1	4320.6	4535.3	4505.0	4489.2
2977.4	37.5°	3068.2	3206.5	3293.0	3450.1	3589.9	3863.7	4166.4	4162.0	4128.9
2614.2	40°	2669.0	2814.6	2945.7	3104.2	3212.3	3429.9	3765.7	3764.3	3768.6
2238.1	42.5°	2307.3	2441.3	2599.8	2772.8	2876.5	3035.1	3395.3	3415.5	3440.0
1928.3	45°	1980.1	2101.2	2248.2	2458.6	2584.0	2674.8	2994.7	3086.9	3085.5
1651.6	47.5°	1686.1	1800.0	1923.9	2128.6	2288.5	2370.7	2635.9	2767.0	2758.4
1354.7	50°	1415.2	1516.1	1645.8	1794.2	2009.0	2081.0	2278.5	2451.4	2438.4
1079.4	52.5°	1138.5	1278.3	1387.8	1523.3	1749.6	1820.2	1972.9	2141.5	2131.5
809.9	55°	887.7	1023.2	1155.8	1272.5	1462.8	1568.0	1677.5	1850.4	1847.5
634.1	57.5°	671.6	820.0	945.4	1056.4	1207.7	1337.4	1425.3	1582.4	1602.6
433.8	60°	497.2	611.0	746.5	870.5	990.1	1124.1	1183.2	1337.4	1346.0
296.9	62.5°	338.7	464.0	596.6	709.0	798.4	936.7	990.1	1116.9	1132.7
190.2	65°	234.9	315.6	466.9	547.6	657.2	775.3	828.7	929.5	961.2
109.5	67.5°	155.6	224.8	364.6	438.1	546.2	626.9	694.6	776.8	811.4
69.2	70°	85.0	165.7	260.8	345.9	439.5	517.4	583.7	650.0	680.2
31.7	72.5°	57.6	111.0	181.6	273.8	354.5	430.9	490.0	539.0	540.4
18.7	75°	28.8	74.9	138.3	211.8	276.7	351.6	405.0	433.8	399.2
11.5	77.5°	17.3	54.8	112.4	170.1	224.8	283.9	314.2	330.0	273.8
8.6	80°	10.1	38.9	87.9	135.5	155.6	209.0	237.8	242.1	183.0
5.8	82.5°	7.2	28.8	69.2	99.4	95.1	147.0	178.7	172.9	116.7
4.3	85°	4.3	20.2	43.2	62.0	57.6	96.6	103.8	106.6	67.7
2.9	87.5°	2.9	11.5	23.1	33.1	27.4	41.8	41.8	50.4	33.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<hr/> 7787.9
7594.8
7626.5
7534.3
7407.5
7251.8
7068.8
6849.8
6557.2
6273.3
5917.3
5600.3
5225.6
4865.3
4467.6
4156.3
3768.6
3427.0
3088.4
2761.2
2449.9
2153.1
1854.8
1593.9
1359.0
1135.6
954.0
807.0
668.7
527.5
373.3
263.7
171.5
108.1
62.0
28.8
0.0

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