

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: P638163

Luminaire Tested: **IFLD-S-SA3A-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638163  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10582.8 lumens  
Efficiency: N/A  
Efficacy: 111.6 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

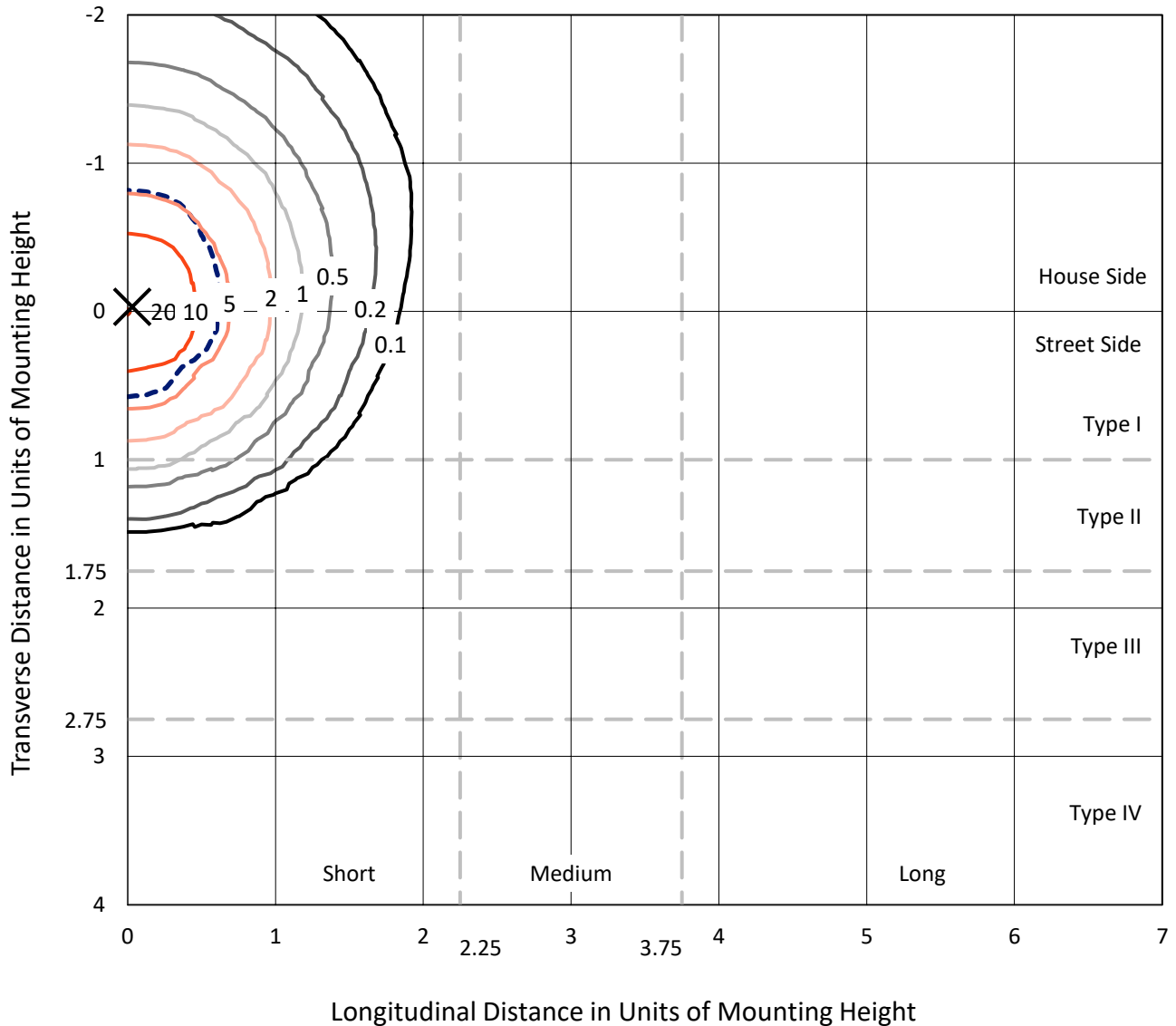
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

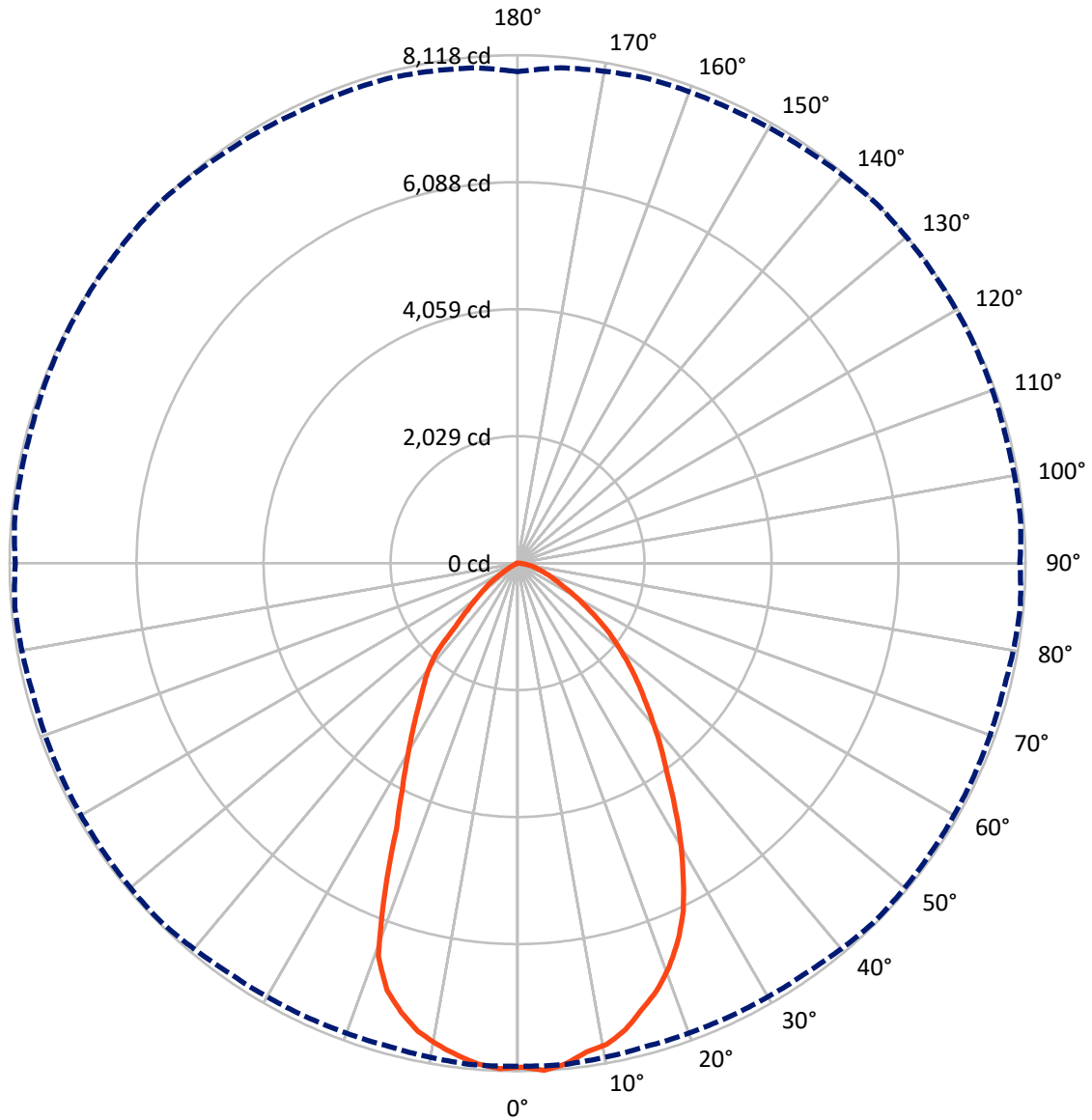
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.1 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	6267.7	0.0	6267.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4315.2	0.0	4315.2
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	10582.8	0.0	10582.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	755.3	7.1
10°-20°	2025.4	19.1
20°-30°	2470.0	23.3
30°-40°	2255.1	21.3
40°-50°	1629.7	15.4
50°-60°	889.8	8.4
60°-70°	367.9	3.5
70°-80°	149.0	1.4
80°-90°	40.5	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°	10582.8	100.0
0°-180°	10582.8	100.0



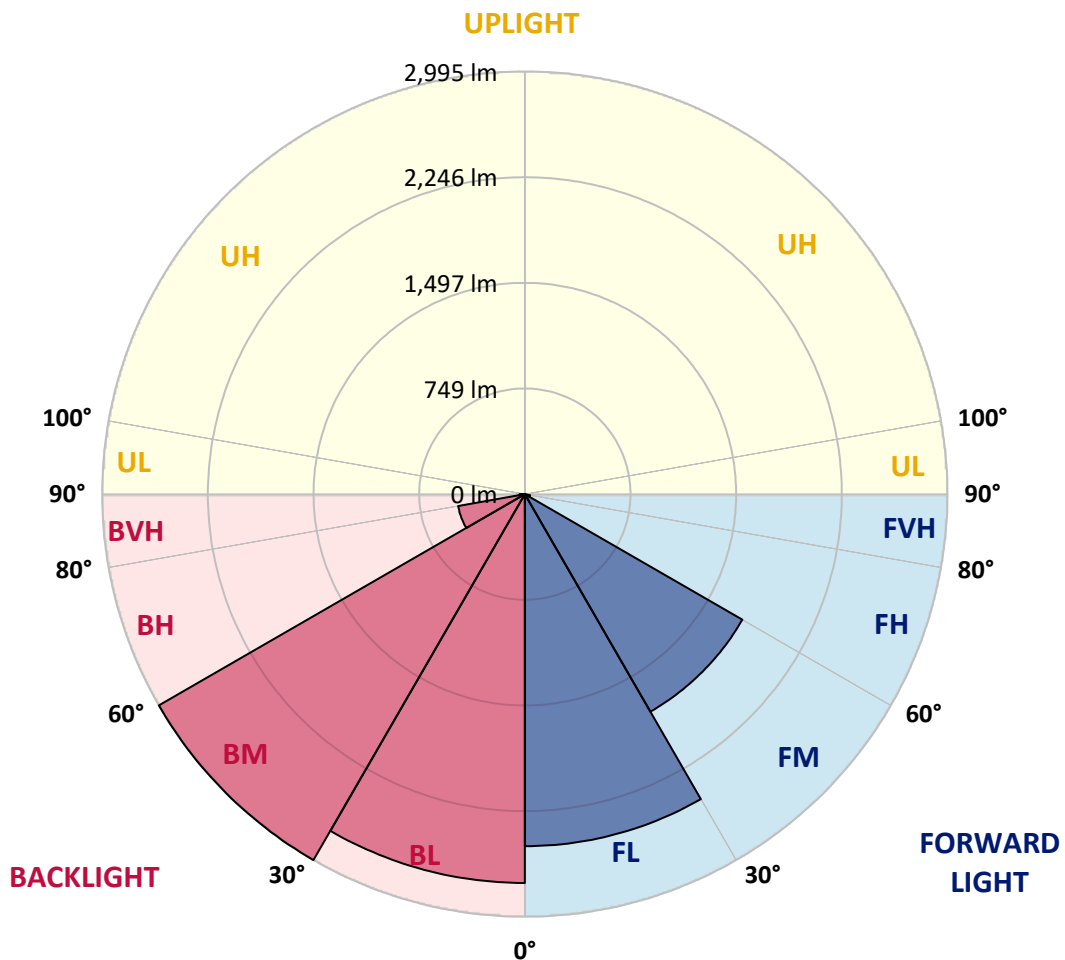
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.8	23.6			
FM (30°-60°)	1779.8	16.8			
FH (60°-80°)	37.3	0.4			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	2755.9	26.0	B4/5000		
BM (30°-60°)	2994.8	28.3	B3/5000		
BH (60°-80°)	479.6	4.5	B1/500		G1/500
BVH (80°-90°)	37.3	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°	8053.5	8053.5	8053.5	8053.5	8053.5	8053.5	8053.5	8053.5	8053.5	8053.5
2.5°	8038.6	8049.0	7992.4	7998.4	8008.8	8084.8	8065.4	8047.5	8022.2	8065.4
5°	8028.2	8034.1	7974.5	7953.7	7962.6	8031.2	7968.6	7968.6	7962.6	7955.2
7.5°	7947.7	7950.7	7904.5	7867.2	7891.1	7922.4	7876.2	7898.5	7865.7	7891.1
10°	7827.0	7807.6	7752.5	7742.0	7768.9	7798.7	7767.4	7788.2	7758.4	7777.8
12.5°	7649.6	7619.8	7575.1	7561.7	7607.9	7648.2	7622.8	7610.9	7572.1	7619.8
15°	6965.6	6943.2	7044.6	7221.9	7381.4	7415.7	7388.8	7400.8	7320.3	7333.7
17.5°	5733.1	5691.4	5800.2	6220.5	6819.6	7135.5	7111.6	7034.2	6914.9	6941.8
20°	5210.0	5198.1	5186.2	5286.0	5704.8	6663.1	6695.9	6499.1	6329.2	6292.0
22.5°	4915.0	4910.5	4898.6	4920.9	5031.2	5646.7	6022.2	5840.4	5727.2	5716.7
25°	4645.2	4637.8	4602.0	4630.3	4630.3	4666.1	5147.5	5257.7	5157.9	5146.0
27.5°	4371.0	4357.6	4351.6	4365.0	4296.5	4055.1	4177.3	4715.3	4663.1	4666.1
30°	4074.4	4070.0	4053.6	4081.9	3870.3	3570.7	3493.2	4223.5	4233.9	4230.9
32.5°	3633.3	3652.7	3727.2	3758.5	3409.8	3162.4	3032.7	3654.2	3867.3	3862.8
35°	2639.3	2639.3	2882.2	3333.8	2988.0	2801.7	2731.7	3098.3	3505.2	3520.1
37.5°	2169.9	2177.3	2225.0	2430.7	2578.2	2512.6	2491.8	2608.0	3040.2	3064.0
40°	1952.3	1952.3	1952.3	1867.3	1862.9	2263.7	2251.8	2214.6	2625.9	2678.0
42.5°	1754.1	1758.5	1761.5	1546.9	1427.7	1956.7	1929.9	1873.3	2254.8	2315.9
45°	1549.9	1557.3	1566.3	1293.6	1241.4	1408.3	1633.4	1570.8	1888.2	1967.2
47.5°	946.3	958.3	1160.9	1096.9	1102.8	1086.4	1332.3	1321.9	1548.4	1660.2
50°	639.3	643.8	663.2	696.0	946.3	853.9	943.4	1093.9	1175.8	1345.7
52.5°	536.5	544.0	496.3	451.6	621.4	667.6	658.7	812.2	845.0	1055.1
55°	377.0	400.9	378.5	374.1	353.2	518.6	499.2	624.4	645.3	801.8
57.5°	38.7	44.7	77.5	278.7	231.0	293.6	356.2	457.5	478.4	591.6
60°	3.0	3.0	7.5	38.7	168.4	175.9	245.9	281.7	321.9	412.8
62.5°	0.0	1.5	3.0	6.0	26.8	93.9	123.7	147.5	193.7	266.8
65°	0.0	0.0	1.5	4.5	6.0	35.8	47.7	77.5	105.8	165.4
67.5°	0.0	0.0	1.5	3.0	4.5	8.9	16.4	28.3	56.6	93.9
70°	0.0	0.0	1.5	3.0	4.5	7.5	11.9	17.9	25.3	50.7
72.5°	0.0	0.0	1.5	1.5	3.0	7.5	8.9	11.9	17.9	25.3
75°	0.0	0.0	1.5	1.5	4.5	8.9	7.5	8.9	11.9	16.4
77.5°	0.0	0.0	1.5	3.0	4.5	8.9	7.5	8.9	8.9	10.4
80°	0.0	0.0	1.5	3.0	6.0	10.4	8.9	8.9	7.5	7.5
82.5°	0.0	0.0	1.5	4.5	6.0	13.4	13.4	11.9	6.0	4.5
85°	0.0	0.0	3.0	6.0	8.9	14.9	14.9	11.9	4.5	3.0
87.5°	0.0	0.0	3.0	4.5	7.5	10.4	14.9	11.9	4.5	1.5
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°
8053.5	0°	8053.5	8053.5	8053.5	8053.5	8053.5	8053.5	8053.5	8053.5	8053.5
8028.2	2.5°	8068.4	8059.5	8089.3	8101.2	8117.6	8055.0	8016.3	8017.7	7946.2
7937.3	5°	7985.0	7986.4	8025.2	8022.2	8038.6	8004.3	7989.4	7964.1	7901.5
7822.5	7.5°	7879.1	7865.7	7903.0	7931.3	7889.6	7913.4	7879.1	7891.1	7853.8
7721.2	10°	7797.2	7765.9	7800.2	7819.5	7821.0	7797.2	7764.4	7733.1	7719.7
7563.2	12.5°	7615.4	7575.1	7633.2	7660.1	7655.6	7609.4	7572.1	7579.6	7536.4
7286.0	15°	7365.0	7366.5	7408.2	7433.6	7409.7	7399.3	7402.3	7384.4	7347.1
6903.0	17.5°	6982.0	7004.3	7114.6	7175.7	7189.1	7168.3	7157.8	7137.0	7099.7
6292.0	20°	6344.2	6478.3	6675.0	6864.3	6901.5	6895.6	6858.3	6849.4	6828.5
5686.9	22.5°	5783.8	5883.7	6111.7	6406.7	6558.8	6573.7	6528.9	6515.5	6493.2
5146.0	25°	5204.1	5311.4	5517.0	5837.5	6151.9	6216.0	6208.5	6168.3	6144.5
4666.1	27.5°	4715.3	4822.6	5008.9	5298.0	5634.8	5840.4	5859.8	5795.7	5794.2
4238.4	30°	4274.1	4421.7	4563.3	4798.7	5125.1	5433.6	5466.4	5421.7	5426.1
3846.4	32.5°	3928.4	4050.6	4171.3	4329.3	4600.5	4959.7	5087.8	5046.1	5029.7
3520.1	35°	3575.2	3658.7	3782.3	3926.9	4111.7	4467.9	4689.9	4658.6	4642.2
3078.9	37.5°	3172.8	3315.9	3405.3	3567.7	3712.3	3995.5	4308.4	4303.9	4269.7
2703.4	40°	2760.0	2910.5	3046.1	3210.1	3321.8	3546.9	3894.1	3892.6	3897.1
2314.4	42.5°	2385.9	2524.5	2688.5	2867.3	2974.6	3138.5	3511.1	3532.0	3557.3
1994.0	45°	2047.7	2172.8	2324.8	2542.4	2672.1	2766.0	3096.8	3192.2	3190.7
1707.9	47.5°	1743.6	1861.4	1989.5	2201.2	2366.6	2451.5	2725.7	2861.4	2852.4
1400.9	50°	1463.5	1567.8	1701.9	1855.4	2077.5	2152.0	2356.1	2535.0	2521.6
1116.2	52.5°	1177.3	1321.9	1435.1	1575.2	1809.2	1882.2	2040.2	2214.6	2204.1
837.5	55°	918.0	1058.1	1195.2	1315.9	1512.6	1621.4	1734.7	1913.5	1910.5
655.7	57.5°	694.5	848.0	977.6	1092.4	1248.9	1383.0	1473.9	1636.3	1657.2
448.6	60°	514.1	631.9	772.0	900.1	1023.8	1162.4	1223.5	1383.0	1391.9
307.0	62.5°	350.2	479.9	617.0	733.2	825.6	968.7	1023.8	1155.0	1171.4
196.7	65°	242.9	326.4	482.9	566.3	679.6	801.8	856.9	961.2	994.0
113.3	67.5°	161.0	232.5	377.0	453.0	564.8	648.3	718.3	803.3	839.0
71.5	70°	87.9	171.4	269.7	357.7	454.5	535.0	603.6	672.1	703.4
32.8	72.5°	59.6	114.8	187.8	283.2	366.6	445.6	506.7	557.4	558.9
19.4	75°	29.8	77.5	143.1	219.1	286.1	363.6	418.8	448.6	412.8
11.9	77.5°	17.9	56.6	116.2	175.9	232.5	293.6	324.9	341.3	283.2
8.9	80°	10.4	40.2	90.9	140.1	161.0	216.1	245.9	250.4	189.3
6.0	82.5°	7.5	29.8	71.5	102.8	98.4	152.0	184.8	178.8	120.7
4.5	85°	4.5	20.9	44.7	64.1	59.6	99.8	107.3	110.3	70.0
3.0	87.5°	3.0	11.9	23.8	34.3	28.3	43.2	43.2	52.2	34.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
8053.5  
7853.8  
7886.6  
7791.2  
7660.1  
7499.1  
7309.9  
7083.3  
6780.8  
6487.2  
6119.1  
5791.3  
5403.8  
5031.2  
4619.9  
4298.0  
3897.1  
3543.9  
3193.7  
2855.4  
2533.5  
2226.5  
1918.0  
1648.3  
1405.3  
1174.3  
986.6  
834.6  
691.5  
545.4  
386.0  
272.7  
177.3  
111.8  
64.1  
29.8  
0.0

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