

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: P636815

Luminaire Tested: **IFLD-L-SA7A-940-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636815  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-940-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17397.2 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

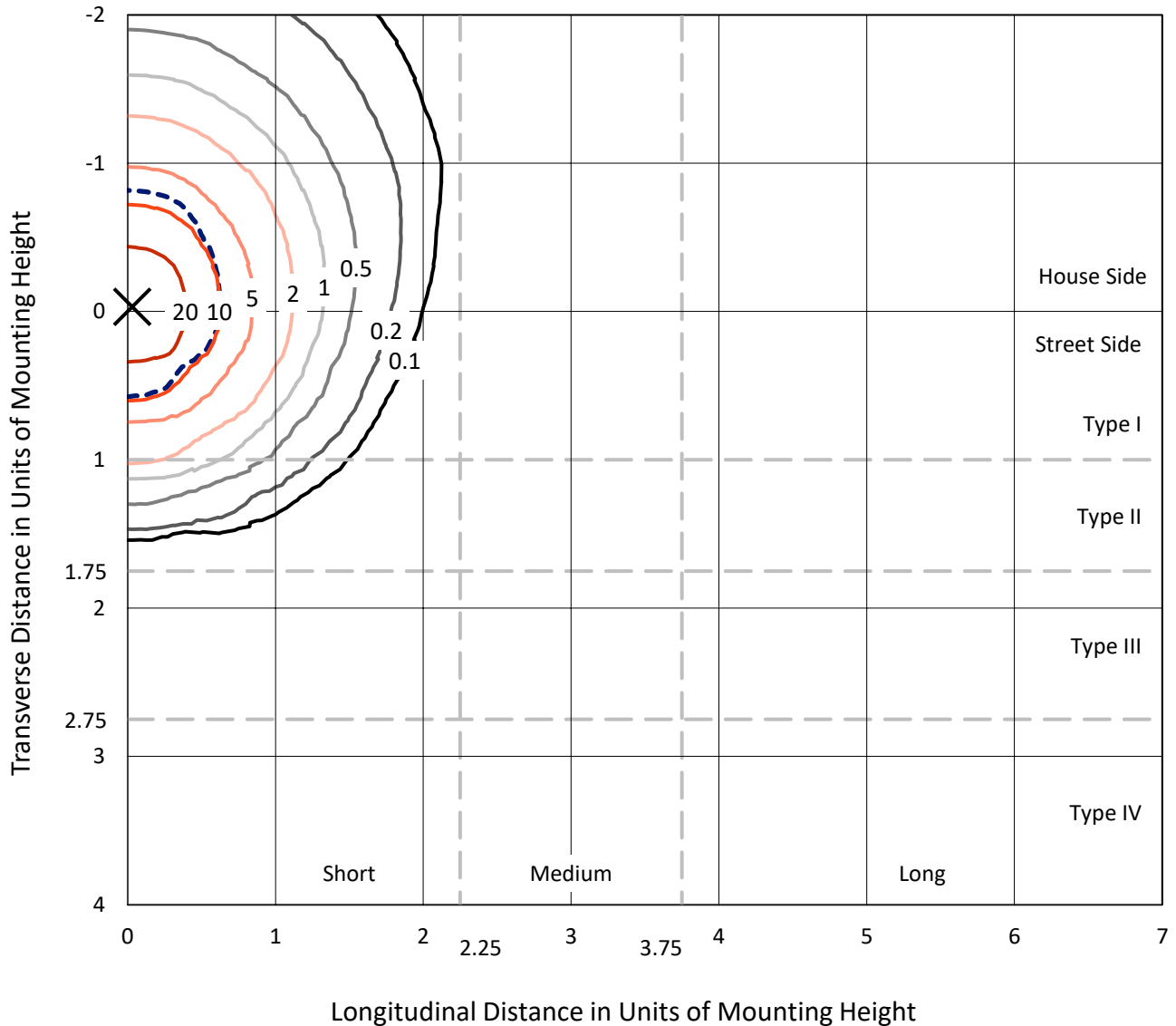
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

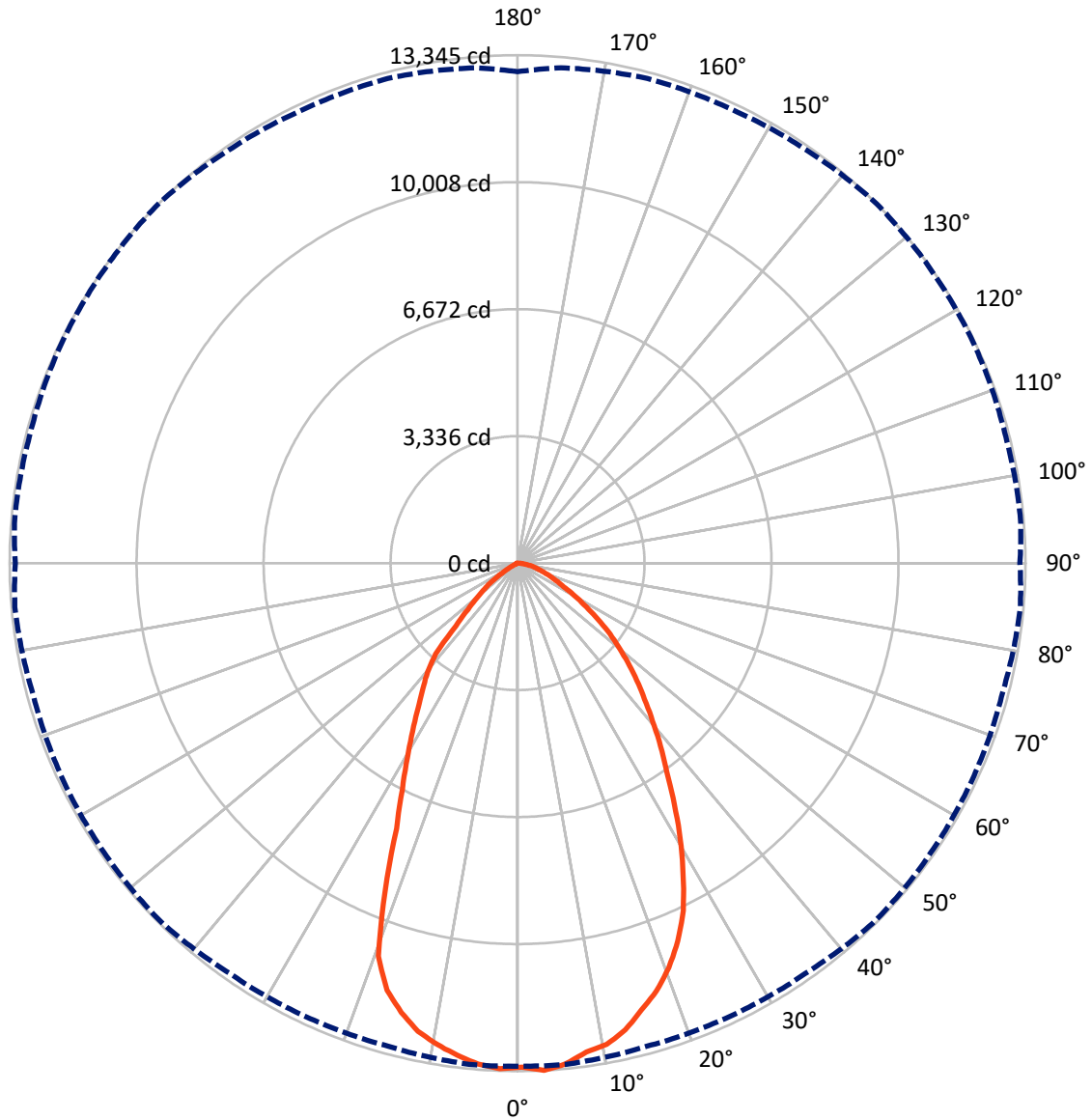
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.1 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	10303.5	0.0	10303.5
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	7093.7	0.0	7093.7
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	17397.2	0.0	17397.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1241.6	7.1
10°-20°	3329.5	19.1
20°-30°	4060.5	23.3
30°-40°	3707.2	21.3
40°-50°	2679.1	15.4
50°-60°	1462.8	8.4
60°-70°	604.8	3.5
70°-80°	244.9	1.4
80°-90°	66.6	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°	17397.2	100.0
0°-180°	17397.2	100.0

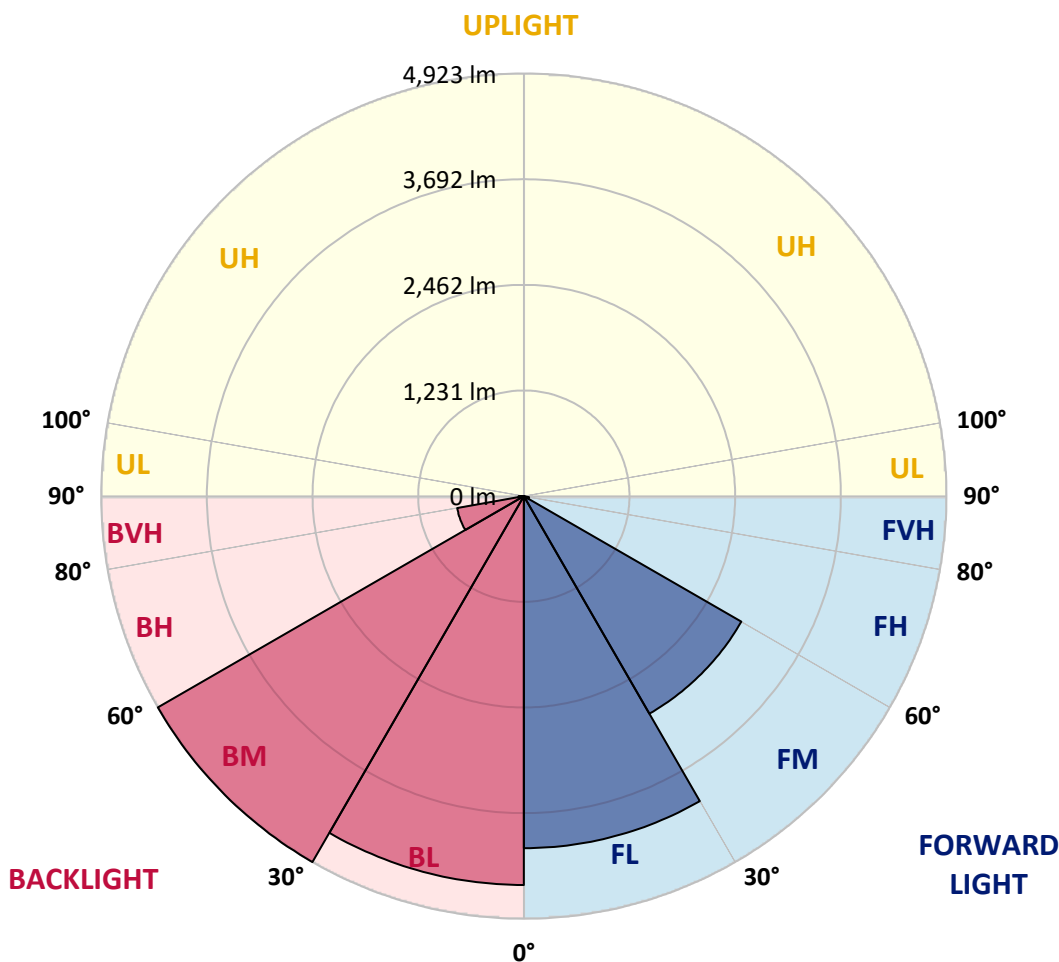


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4101.2	23.6			
FM (30°-60°)	2925.9	16.8			
FH (60°-80°)	61.3	0.4			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	4530.5	26.0	B4/5000		
BM (30°-60°)	4923.3	28.3	B3/5000		
BH (60°-80°)	788.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	61.3	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-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13239.2	13239.2	13239.2	13239.2	13239.2	13239.2	13239.2	13239.2	13239.2	13239.2
2.5°	13214.7	13231.9	13138.8	13148.6	13165.7	13290.7	13258.8	13229.4	13187.8	13258.8
5°	13197.6	13207.4	13109.4	13075.1	13089.8	13202.5	13099.6	13099.6	13089.8	13077.5
7.5°	13065.3	13070.2	12994.2	12933.0	12972.2	13023.6	12947.7	12984.4	12930.5	12972.2
10°	12866.8	12835.0	12744.4	12727.2	12771.3	12820.3	12768.9	12803.2	12754.2	12786.0
12.5°	12575.3	12526.3	12452.8	12430.8	12506.7	12572.9	12531.2	12511.6	12447.9	12526.3
15°	11450.8	11414.1	11580.7	11872.2	12134.3	12190.7	12146.6	12166.2	12033.9	12055.9
17.5°	9424.7	9356.1	9535.0	10225.9	11210.7	11730.1	11690.9	11563.5	11367.5	11411.6
20°	8564.8	8545.2	8525.6	8689.8	9378.2	10953.5	11007.4	10684.0	10404.7	10343.5
22.5°	8079.8	8072.4	8052.8	8089.6	8270.8	9282.7	9900.0	9601.1	9414.9	9397.8
25°	7636.3	7624.1	7565.3	7611.8	7611.8	7670.6	8461.9	8643.2	8479.1	8459.5
27.5°	7185.5	7163.5	7153.7	7175.7	7063.0	6666.2	6867.1	7751.5	7665.7	7670.6
30°	6698.0	6690.7	6663.7	6710.3	6362.4	5869.9	5742.6	6943.0	6960.2	6955.3
32.5°	5972.8	6004.7	6127.2	6178.6	5605.4	5198.7	4985.5	6007.1	6357.5	6350.1
35°	4338.8	4338.8	4738.1	5480.4	4912.0	4605.8	4490.7	5093.3	5762.2	5786.7
37.5°	3567.0	3579.3	3657.7	3995.8	4238.3	4130.5	4096.2	4287.3	4997.8	5037.0
40°	3209.4	3209.4	3209.4	3069.7	3062.4	3721.4	3701.8	3640.5	4316.7	4402.5
42.5°	2883.5	2890.9	2895.8	2543.0	2347.0	3216.7	3172.6	3079.5	3706.7	3807.1
45°	2547.9	2560.1	2574.8	2126.5	2040.8	2315.2	2685.1	2582.2	3104.0	3233.9
47.5°	1555.7	1575.3	1908.5	1803.1	1812.9	1786.0	2190.2	2173.1	2545.4	2729.2
50°	1051.0	1058.4	1090.2	1144.1	1555.7	1403.8	1550.8	1798.2	1933.0	2212.3
52.5°	882.0	894.2	815.8	742.3	1021.6	1097.6	1082.9	1335.2	1389.1	1734.5
55°	619.8	659.0	622.3	614.9	580.6	852.6	820.7	1026.5	1060.8	1318.0
57.5°	63.7	73.5	127.4	458.1	379.7	482.6	585.5	752.1	786.4	972.6
60°	4.9	4.9	12.2	63.7	276.8	289.1	404.2	463.0	529.2	678.6
62.5°	0.0	2.4	4.9	9.8	44.1	154.3	203.3	242.5	318.5	438.5
65°	0.0	0.0	2.4	7.3	9.8	58.8	78.4	127.4	173.9	271.9
67.5°	0.0	0.0	2.4	4.9	7.3	14.7	26.9	46.5	93.1	154.3
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.6	29.4	41.6	83.3
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	14.7	19.6	29.4	41.6
75°	0.0	0.0	2.4	2.4	7.3	14.7	12.2	14.7	19.6	26.9
77.5°	0.0	0.0	2.4	4.9	7.3	14.7	12.2	14.7	14.7	17.1
80°	0.0	0.0	2.4	4.9	9.8	17.1	14.7	14.7	12.2	12.2
82.5°	0.0	0.0	2.4	7.3	9.8	22.0	22.0	19.6	9.8	7.3
85°	0.0	0.0	4.9	9.8	14.7	24.5	24.5	19.6	7.3	4.9
87.5°	0.0	0.0	4.9	7.3	12.2	17.1	24.5	19.6	7.3	2.4
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°
13239.2	0°	13239.2	13239.2	13239.2	13239.2	13239.2	13239.2	13239.2	13239.2	13239.2
13197.6	2.5°	13263.7	13249.0	13298.0	13317.6	13344.6	13241.7	13178.0	13180.4	13062.8
13048.1	5°	13126.5	13129.0	13192.7	13187.8	13214.7	13158.4	13133.9	13092.2	12989.3
12859.5	7.5°	12952.6	12930.5	12991.8	13038.3	12969.7	13008.9	12952.6	12972.2	12910.9
12692.9	10°	12817.9	12766.4	12822.8	12854.6	12857.0	12817.9	12764.0	12712.5	12690.5
12433.2	12.5°	12519.0	12452.8	12548.4	12592.5	12585.1	12509.2	12447.9	12460.2	12389.1
11977.5	15°	12107.4	12109.8	12178.4	12220.1	12180.9	12163.7	12168.6	12139.2	12078.0
11347.9	17.5°	11477.8	11514.5	11695.8	11796.2	11818.3	11784.0	11766.8	11732.5	11671.3
10343.5	20°	10429.2	10649.7	10973.1	11284.2	11345.5	11335.7	11274.4	11259.7	11225.4
9348.8	22.5°	9508.0	9672.2	10047.0	10532.1	10782.0	10806.5	10733.0	10710.9	10674.2
8459.5	25°	8555.0	8731.4	9069.5	9596.2	10113.2	10218.5	10206.3	10140.1	10100.9
7670.6	27.5°	7751.5	7927.9	8234.1	8709.4	9263.1	9601.1	9633.0	9527.6	9525.2
6967.5	30°	7026.3	7268.8	7501.6	7888.7	8425.2	8932.3	8986.2	8912.7	8920.1
6323.2	32.5°	6457.9	6658.8	6857.3	7116.9	7562.8	8153.3	8363.9	8295.3	8268.4
5786.7	35°	5877.3	6014.5	6217.8	6455.5	6759.3	7344.8	7709.8	7658.4	7631.4
5061.5	37.5°	5215.8	5451.0	5598.0	5865.0	6102.7	6568.2	7082.6	7075.3	7018.9
4444.1	40°	4537.2	4784.6	5007.6	5277.1	5460.8	5830.8	6401.6	6399.1	6406.5
3804.7	42.5°	3922.3	4150.1	4419.6	4713.6	4890.0	5159.5	5772.0	5806.3	5847.9
3278.0	45°	3366.2	3571.9	3821.8	4179.5	4392.7	4547.0	5090.9	5247.7	5245.2
2807.6	47.5°	2866.4	3059.9	3270.6	3618.5	3890.4	4030.1	4480.9	4703.8	4689.1
2302.9	50°	2405.8	2577.3	2797.8	3050.1	3415.2	3537.6	3873.3	4167.3	4145.2
1835.0	52.5°	1935.4	2173.1	2359.2	2589.5	2974.2	3094.2	3353.9	3640.5	3623.4
1376.8	55°	1509.1	1739.4	1964.8	2163.3	2486.6	2665.5	2851.7	3145.7	3140.8
1078.0	57.5°	1141.7	1394.0	1607.1	1795.8	2053.0	2273.5	2422.9	2690.0	2724.3
737.4	60°	845.2	1038.8	1269.0	1479.7	1683.1	1910.9	2011.4	2273.5	2288.2
504.7	62.5°	575.7	788.9	1014.3	1205.3	1357.2	1592.4	1683.1	1898.7	1925.6
323.4	65°	399.3	536.5	793.8	931.0	1117.2	1318.0	1408.7	1580.2	1634.1
186.2	67.5°	264.6	382.2	619.8	744.8	928.5	1065.7	1180.8	1320.5	1379.3
117.6	70°	144.5	281.7	443.4	588.0	747.2	879.5	992.2	1104.9	1156.4
53.9	72.5°	98.0	188.6	308.7	465.5	602.7	732.5	833.0	916.3	918.7
31.8	75°	49.0	127.4	235.2	360.1	470.4	597.8	688.4	737.4	678.6
19.6	77.5°	29.4	93.1	191.1	289.1	382.2	482.6	534.1	561.0	465.5
14.7	80°	17.1	66.1	149.4	230.3	264.6	355.2	404.2	411.6	311.1
9.8	82.5°	12.2	49.0	117.6	169.0	161.7	249.9	303.8	294.0	198.4
7.3	85°	7.3	34.3	73.5	105.3	98.0	164.1	176.4	181.3	115.1
4.9	87.5°	4.9	19.6	39.2	56.3	46.5	71.0	71.0	85.7	56.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
13239.2  
*12910.9*  
12964.8  
12808.1  
12592.5  
12327.9  
12016.7  
11644.4  
11147.0  
10664.4  
10059.3  
9520.3  
8883.3  
8270.8  
7594.7  
7065.5  
6406.5  
5825.9  
5250.1  
4694.0  
4164.8  
3660.1  
3153.0  
2709.6  
2310.3  
1930.5  
1621.8  
1371.9  
1136.8  
896.7  
634.5  
448.3  
291.5  
183.7  
105.3  
49.0  
0.0

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