

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: P636782

Luminaire Tested: **IFLD-M-SA4B-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636782  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11665 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

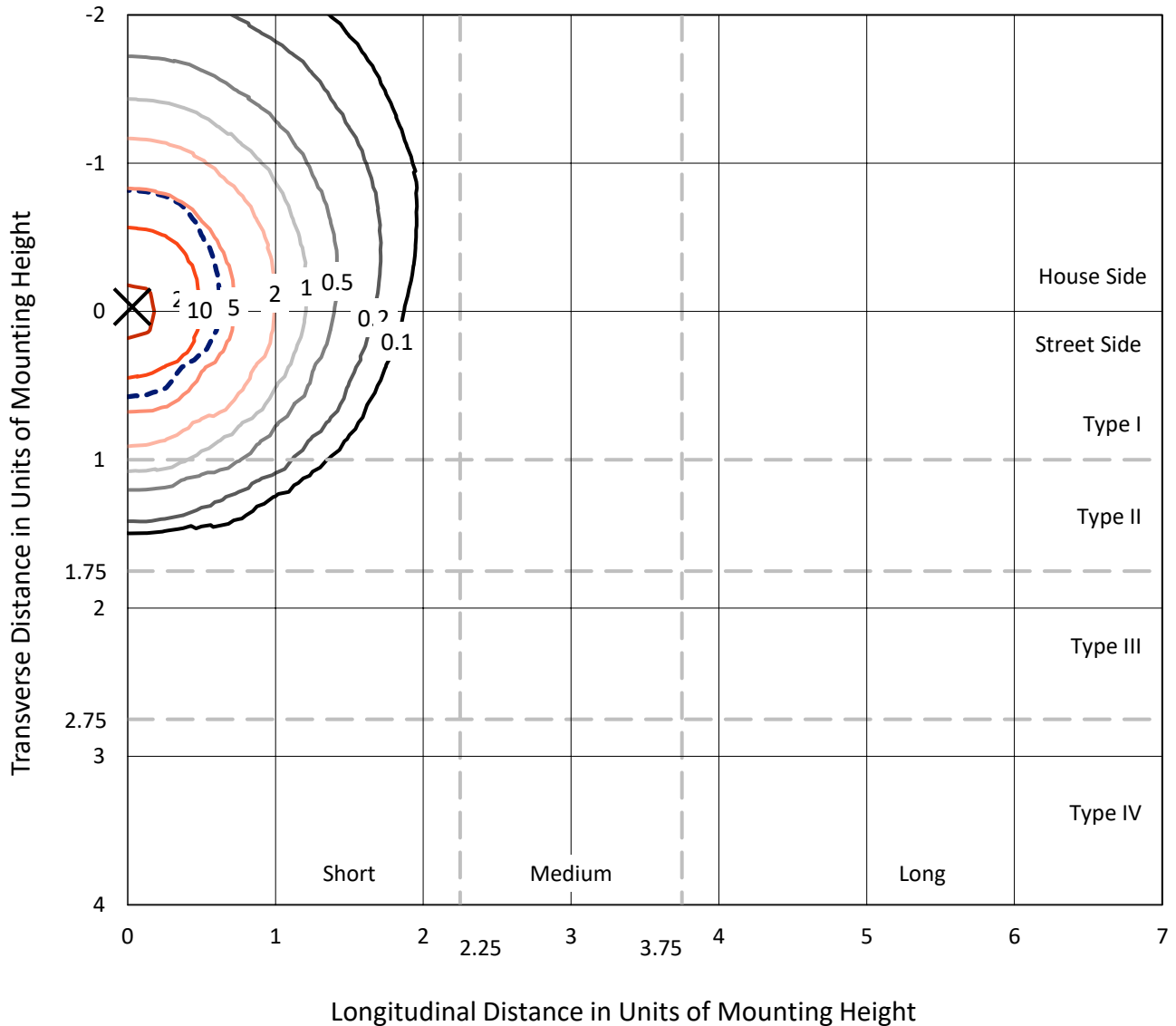
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

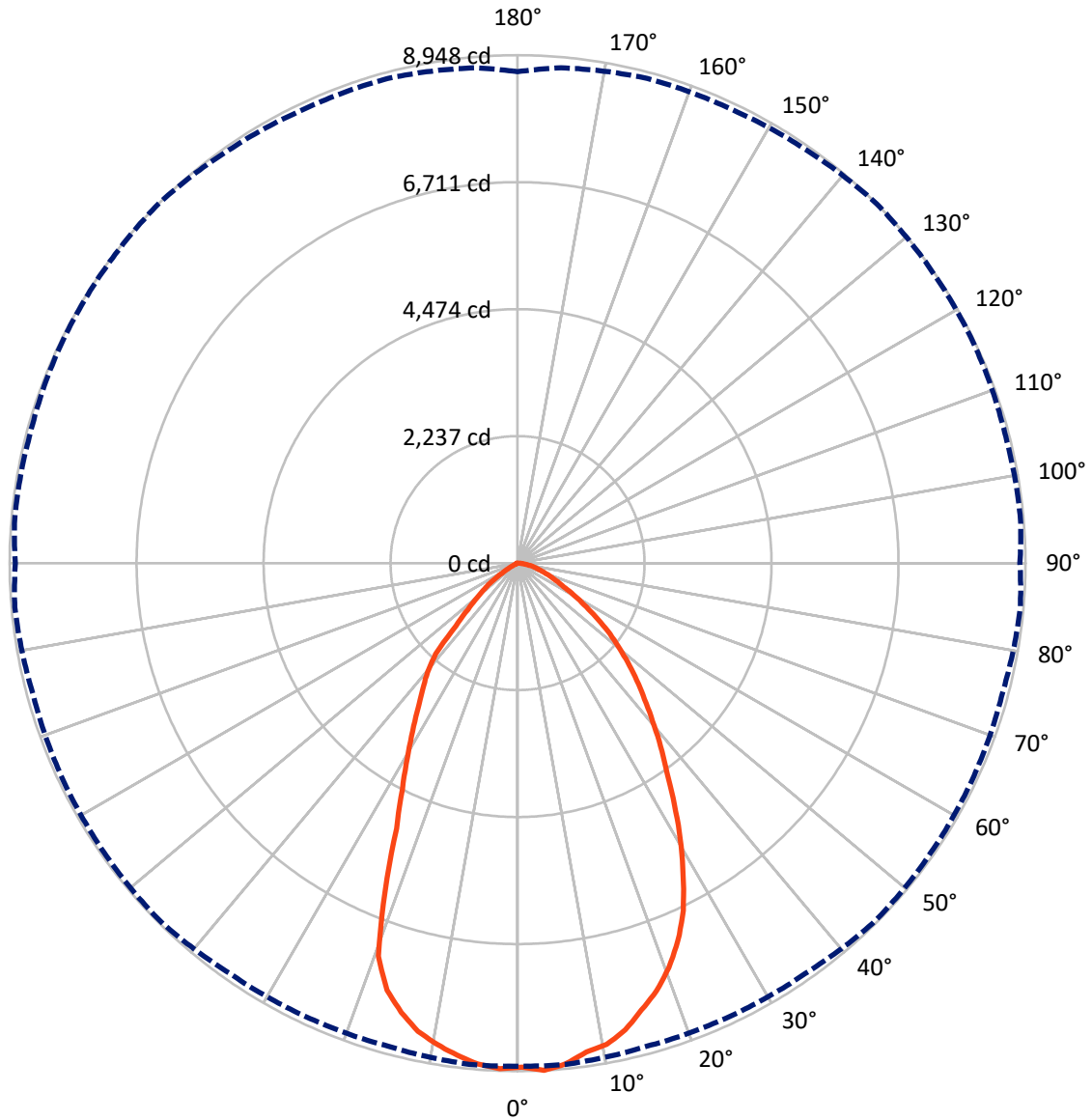
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.2 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	6908.6	0.0	6908.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4756.4	0.0	4756.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	11665.0	0.0	11665.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	832.5	7.1
10°-20°	2232.5	19.1
20°-30°	2722.6	23.3
30°-40°	2485.7	21.3
40°-50°	1796.4	15.4
50°-60°	980.8	8.4
60°-70°	405.5	3.5
70°-80°	164.2	1.4
80°-90°	44.7	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°	11665.0	100.0
0°-180°	11665.0	100.0



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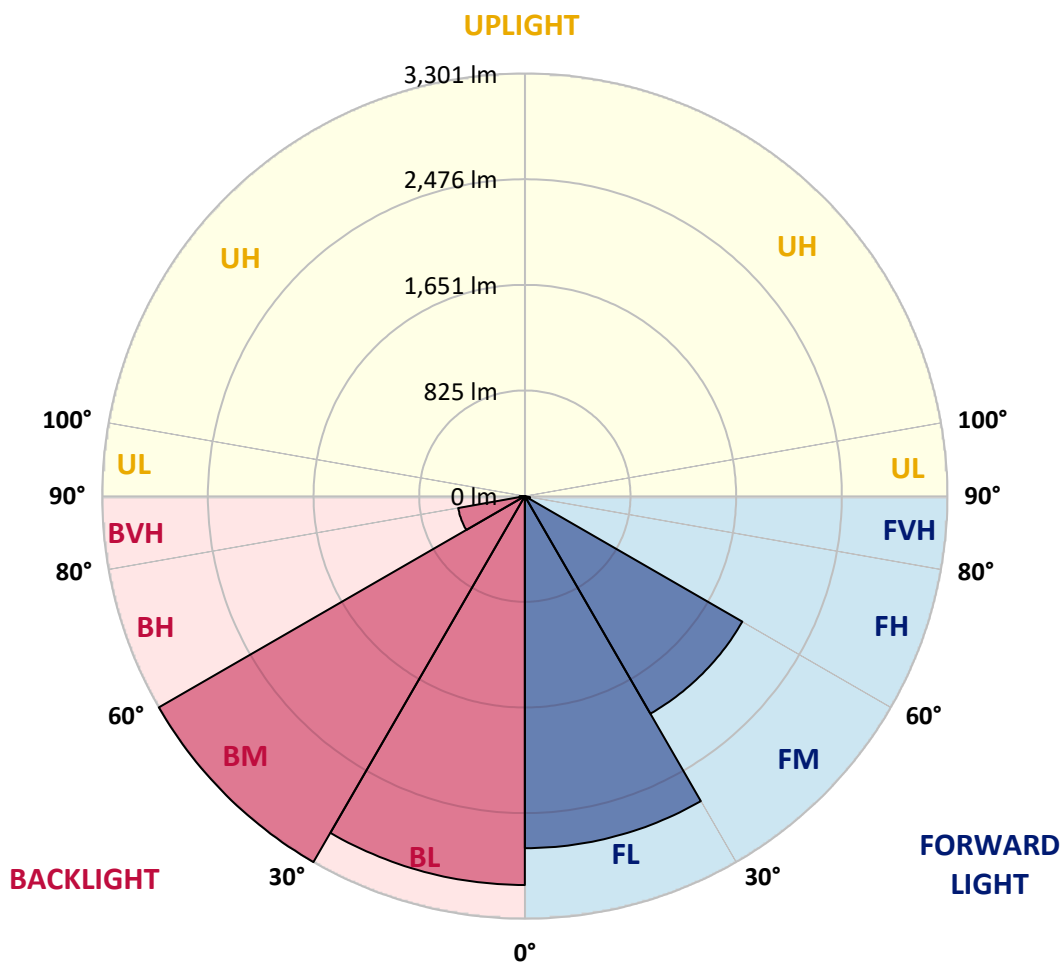
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2749.9	23.6			
FM (30°-60°)	1961.8	16.8			
FH (60°-80°)	41.1	0.4			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	3037.7	26.0	B4/5000		
BM (30°-60°)	3301.1	28.3	B3/5000		
BH (60°-80°)	528.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	41.1	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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8877.0	8877.0	8877.0	8877.0	8877.0	8877.0	8877.0	8877.0	8877.0	8877.0
2.5°	8860.6	8872.1	8809.7	8816.2	8827.7	8911.5	8890.2	8870.4	8842.5	8890.2
5°	8849.1	8855.7	8790.0	8767.0	8776.8	8852.4	8783.4	8783.4	8776.8	8768.6
7.5°	8760.4	8763.7	8712.7	8671.7	8698.0	8732.5	8681.5	8706.2	8670.0	8698.0
10°	8627.3	8606.0	8545.2	8533.7	8563.3	8596.1	8561.6	8584.6	8551.8	8573.1
12.5°	8431.8	8399.0	8349.7	8334.9	8385.9	8430.2	8402.3	8389.1	8346.4	8399.0
15°	7677.9	7653.2	7764.9	7960.4	8136.2	8173.9	8144.4	8157.5	8068.8	8083.6
17.5°	6319.4	6273.4	6393.3	6856.5	7516.9	7865.1	7838.8	7753.4	7622.0	7651.6
20°	5742.8	5729.6	5716.5	5826.6	6288.2	7344.4	7380.5	7163.7	6976.4	6935.4
22.5°	5417.5	5412.6	5399.5	5424.1	5545.7	6224.1	6638.0	6437.6	6312.8	6301.3
25°	5120.2	5112.0	5072.6	5103.8	5103.8	5143.2	5673.8	5795.4	5685.3	5672.2
27.5°	4818.0	4803.2	4796.6	4811.4	4735.8	4469.7	4604.4	5197.4	5139.9	5143.2
30°	4491.1	4486.1	4468.1	4499.3	4266.0	3935.8	3850.4	4655.3	4666.8	4663.6
32.5°	4004.8	4026.2	4108.3	4142.8	3758.4	3485.8	3342.8	4027.8	4262.7	4257.8
35°	2909.2	2909.2	3176.9	3674.7	3293.6	3088.2	3011.0	3415.1	3863.6	3880.0
37.5°	2391.7	2399.9	2452.5	2679.2	2841.8	2769.5	2746.6	2874.7	3351.1	3377.3
40°	2151.9	2151.9	2151.9	2058.3	2053.3	2495.2	2482.1	2441.0	2894.4	2951.9
42.5°	1933.4	1938.4	1941.6	1705.1	1573.7	2156.8	2127.3	2064.8	2485.4	2552.7
45°	1708.4	1716.6	1726.5	1425.8	1368.3	1552.3	1800.4	1731.4	2081.3	2168.3
47.5°	1043.1	1056.2	1279.6	1209.0	1215.6	1197.5	1468.6	1457.1	1706.7	1829.9
50°	704.7	709.6	731.0	767.1	1043.1	941.3	1039.8	1205.7	1296.1	1483.3
52.5°	591.4	599.6	547.0	497.7	685.0	735.9	726.1	895.3	931.4	1163.0
55°	415.6	441.9	417.2	412.3	389.3	571.7	550.3	688.3	711.3	883.8
57.5°	42.7	49.3	85.4	307.2	254.6	323.6	392.6	504.3	527.3	652.1
60°	3.3	3.3	8.2	42.7	185.6	193.8	271.0	310.5	354.8	455.0
62.5°	0.0	1.6	3.3	6.6	29.6	103.5	136.3	162.6	213.5	294.0
65°	0.0	0.0	1.6	4.9	6.6	39.4	52.6	85.4	116.6	182.3
67.5°	0.0	0.0	1.6	3.3	4.9	9.9	18.1	31.2	62.4	103.5
70°	0.0	0.0	1.6	3.3	4.9	8.2	13.1	19.7	27.9	55.9
72.5°	0.0	0.0	1.6	1.6	3.3	8.2	9.9	13.1	19.7	27.9
75°	0.0	0.0	1.6	1.6	4.9	9.9	8.2	9.9	13.1	18.1
77.5°	0.0	0.0	1.6	3.3	4.9	9.9	8.2	9.9	9.9	11.5
80°	0.0	0.0	1.6	3.3	6.6	11.5	9.9	9.9	8.2	8.2
82.5°	0.0	0.0	1.6	4.9	6.6	14.8	14.8	13.1	6.6	4.9
85°	0.0	0.0	3.3	6.6	9.9	16.4	16.4	13.1	4.9	3.3
87.5°	0.0	0.0	3.3	4.9	8.2	11.5	16.4	13.1	4.9	1.6
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°
8877.0	0°	8877.0	8877.0	8877.0	8877.0	8877.0	8877.0	8877.0	8877.0	8877.0
8849.1	2.5°	8893.4	8883.6	8916.4	8929.6	8947.6	8878.7	8835.9	8837.6	8758.7
8748.9	5°	8801.5	8803.1	8845.8	8842.5	8860.6	8822.8	8806.4	8778.5	8709.5
8622.4	7.5°	8684.8	8670.0	8711.1	8742.3	8696.3	8722.6	8684.8	8698.0	8656.9
8510.7	10°	8594.5	8560.0	8597.8	8619.1	8620.8	8594.5	8558.3	8523.8	8509.1
8336.6	12.5°	8394.1	8349.7	8413.8	8443.3	8438.4	8387.5	8346.4	8354.6	8307.0
8031.0	15°	8118.1	8119.7	8165.7	8193.7	8167.4	8155.9	8159.2	8139.5	8098.4
7608.9	17.5°	7695.9	7720.6	7842.1	7909.5	7924.3	7901.3	7889.8	7866.8	7825.7
6935.4	20°	6992.9	7140.7	7357.5	7566.2	7607.2	7600.7	7559.6	7549.7	7526.7
6268.4	22.5°	6375.2	6485.3	6736.6	7061.9	7229.4	7245.8	7196.6	7181.8	7157.1
5672.2	25°	5736.2	5854.5	6081.2	6434.4	6781.0	6851.6	6843.4	6799.0	6772.7
5143.2	27.5°	5197.4	5315.7	5521.0	5839.7	6211.0	6437.6	6459.0	6388.4	6386.7
4671.8	30°	4711.2	4873.8	5029.9	5289.4	5649.2	5989.2	6025.3	5976.1	5981.0
4239.7	32.5°	4330.1	4464.8	4597.8	4772.0	5070.9	5466.8	5608.1	5562.1	5544.0
3880.0	35°	3940.8	4032.8	4169.1	4328.4	4532.1	4924.7	5169.5	5135.0	5116.9
3393.8	37.5°	3497.3	3655.0	3753.5	3932.6	4091.9	4404.0	4749.0	4744.0	4706.3
2979.8	40°	3042.2	3208.1	3357.6	3538.3	3661.5	3909.6	4292.3	4290.7	4295.6
2551.1	42.5°	2629.9	2782.7	2963.4	3160.5	3278.8	3459.5	3870.1	3893.1	3921.1
2197.9	45°	2257.0	2395.0	2562.6	2802.4	2945.3	3048.8	3413.5	3518.6	3517.0
1882.5	47.5°	1921.9	2051.7	2193.0	2426.2	2608.6	2702.2	3004.5	3153.9	3144.1
1544.1	50°	1613.1	1728.1	1875.9	2045.1	2289.9	2372.0	2597.1	2794.2	2779.4
1230.4	52.5°	1297.7	1457.1	1581.9	1736.3	1994.2	2074.7	2248.8	2441.0	2429.5
923.2	55°	1011.9	1166.3	1317.4	1450.5	1667.3	1787.2	1912.1	2109.2	2105.9
722.8	57.5°	765.5	934.7	1077.6	1204.1	1376.6	1524.4	1624.6	1803.7	1826.7
494.4	60°	566.7	696.5	850.9	992.2	1128.5	1281.3	1348.6	1524.4	1534.3
338.4	62.5°	386.0	528.9	680.1	808.2	910.0	1067.7	1128.5	1273.1	1291.1
216.8	65°	267.8	359.7	532.2	624.2	749.1	883.8	944.5	1059.5	1095.7
124.8	67.5°	177.4	256.3	415.6	499.4	622.6	714.6	791.8	885.4	924.8
78.8	70°	96.9	188.9	297.3	394.2	501.0	589.7	665.3	740.8	775.3
36.1	72.5°	65.7	126.5	207.0	312.1	404.1	491.2	558.5	614.4	616.0
21.4	75°	32.9	85.4	157.7	241.5	315.4	400.8	461.6	494.4	455.0
13.1	77.5°	19.7	62.4	128.1	193.8	256.3	323.6	358.1	376.2	312.1
9.9	80°	11.5	44.4	100.2	154.4	177.4	238.2	271.0	276.0	208.6
6.6	82.5°	8.2	32.9	78.8	113.3	108.4	167.6	203.7	197.1	133.1
4.9	85°	4.9	23.0	49.3	70.6	65.7	110.1	118.3	121.6	77.2
3.3	87.5°	3.3	13.1	26.3	37.8	31.2	47.6	47.6	57.5	37.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<hr/>
8877.0
8656.9
8693.0
8587.9
8443.3
8265.9
8057.3
7807.6
7474.2
7150.6
6744.8
6383.4
5956.3
5545.7
5092.3
4737.5
4295.6
3906.3
3520.3
3147.4
2792.5
2454.2
2114.1
1816.8
1549.0
1294.4
1087.5
919.9
762.2
601.2
425.5
300.6
195.5
123.2
70.6
32.9
0.0

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