

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: P638102

Luminaire Tested: **IFLD-S-SA2C-730-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638102  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-730-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9955.3 lumens  
Efficiency: N/A  
Efficacy: 92.0 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): 108.2  
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

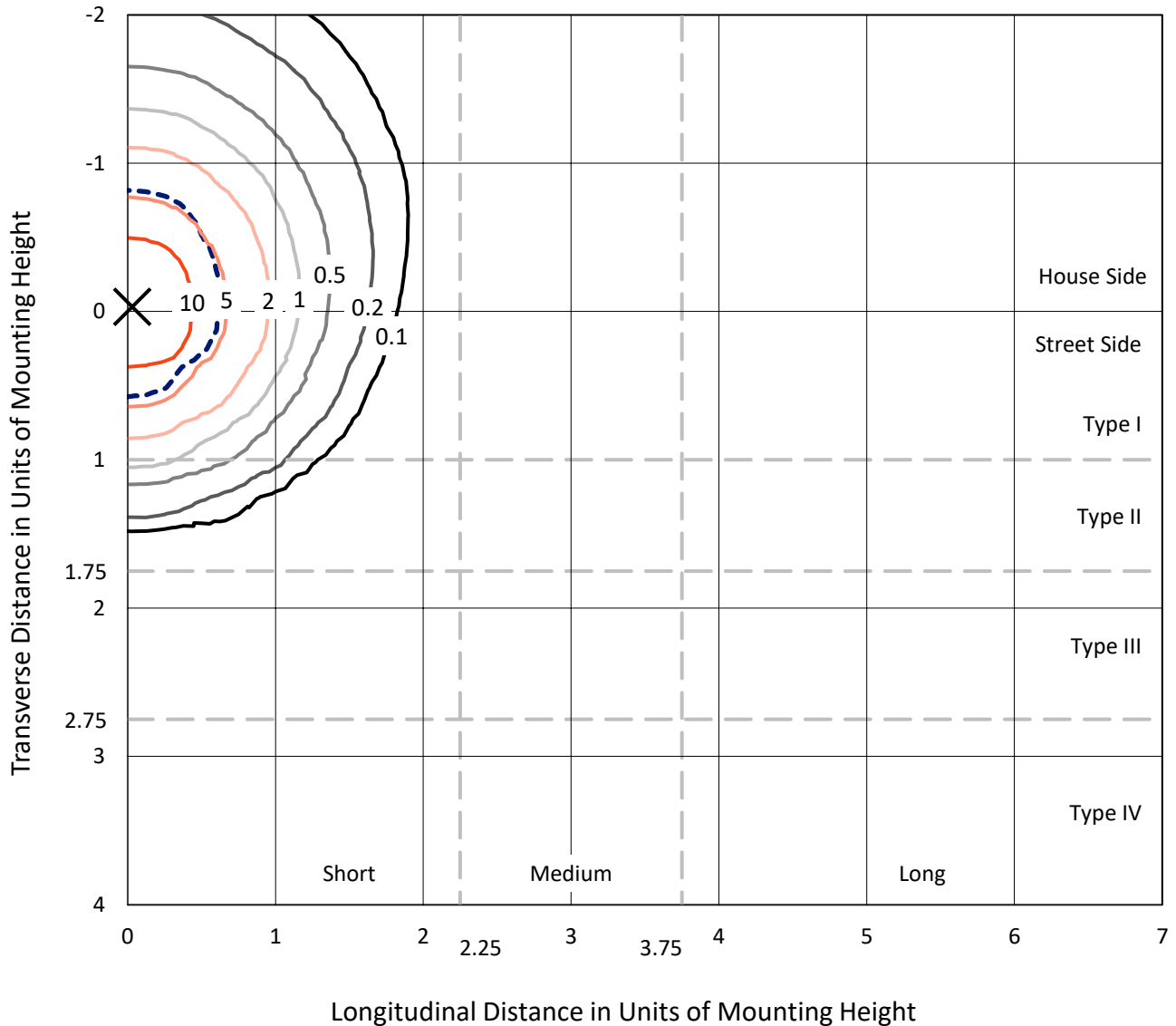




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### Iso-Footcandle Lines of Horizontal Illumination

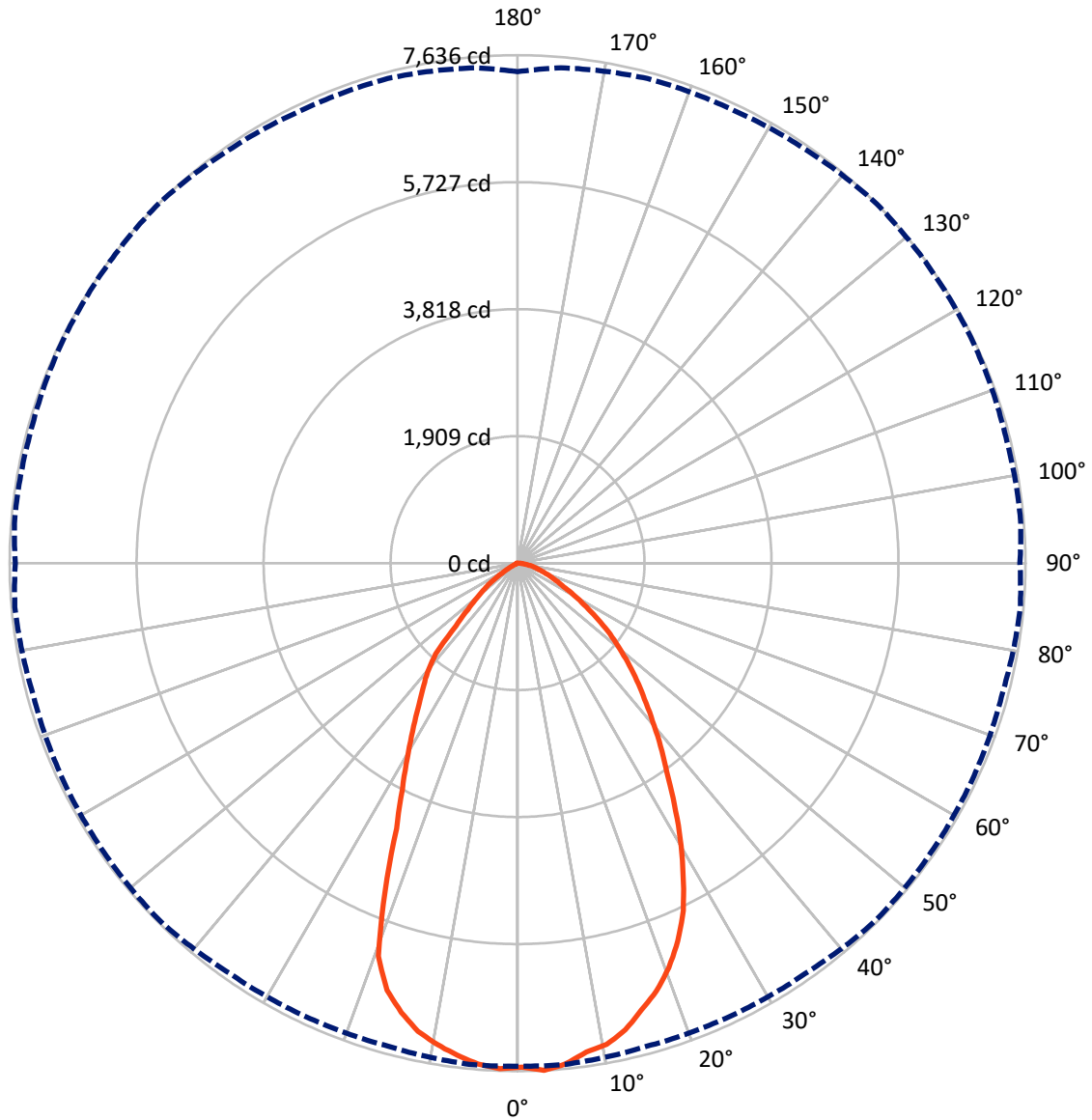
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.9 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	5896.1	0.0	5896.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4059.3	0.0	4059.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	9955.3	0.0	9955.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	710.5	7.1
10°-20°	1905.3	19.1
20°-30°	2323.6	23.3
30°-40°	2121.4	21.3
40°-50°	1533.1	15.4
50°-60°	837.1	8.4
60°-70°	346.1	3.5
70°-80°	140.2	1.4
80°-90°	38.1	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°	9955.3	100.0
0°-180°	9955.3	100.0



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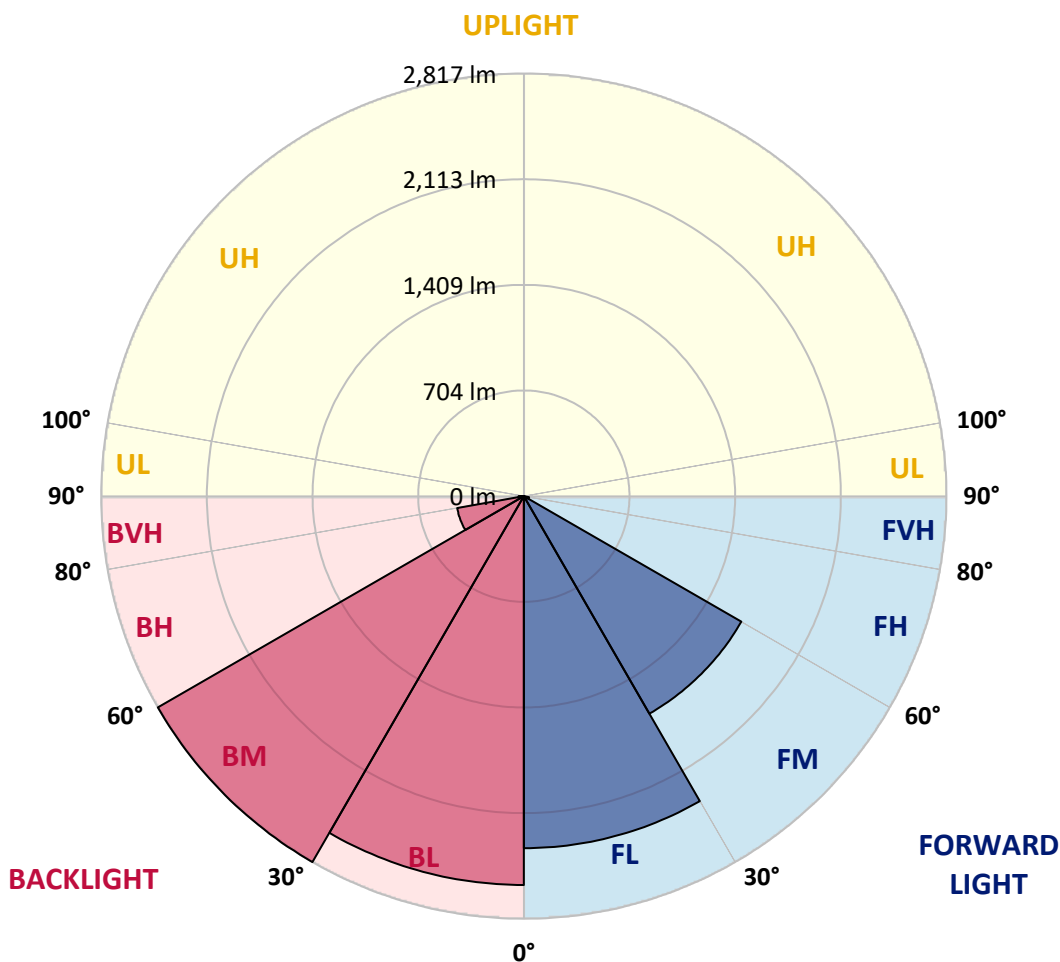
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2346.8	23.6			
FM	(30°-60°)	1674.3	16.8			
FH	(60°-80°)	35.1	0.4			G0/660
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	2592.5	26.0	B4/5000		
BM	(30°-60°)	2817.3	28.3	B3/5000		
BH	(60°-80°)	451.2	4.5	B1/500		G1/500
BVH	(80°-90°)	35.1	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°	7576.0	7576.0	7576.0	7576.0	7576.0	7576.0	7576.0	7576.0	7576.0	7576.0
2.5°	7562.0	7571.8	7518.5	7524.1	7533.9	7605.4	7587.2	7570.4	7546.5	7587.2
5°	7552.1	7557.8	7501.7	7482.1	7490.5	7555.0	7496.1	7496.1	7490.5	7483.5
7.5°	7476.4	7479.2	7435.8	7400.7	7423.2	7452.6	7409.2	7430.2	7399.3	7423.2
10°	7362.9	7344.7	7292.8	7283.0	7308.2	7336.3	7306.8	7326.4	7298.4	7316.6
12.5°	7196.1	7168.0	7126.0	7113.3	7156.8	7194.7	7170.8	7159.6	7123.2	7168.0
15°	6552.6	6531.6	6626.9	6793.7	6943.7	6976.0	6950.7	6961.9	6886.2	6898.9
17.5°	5393.2	5353.9	5456.3	5851.6	6415.2	6712.4	6690.0	6617.1	6504.9	6530.1
20°	4901.1	4889.9	4878.7	4972.6	5366.6	6268.0	6298.8	6113.8	5954.0	5918.9
22.5°	4623.5	4619.3	4608.1	4629.1	4732.9	5311.9	5665.2	5494.1	5387.6	5377.8
25°	4369.8	4362.8	4329.1	4355.8	4355.8	4389.4	4842.2	4946.0	4852.0	4840.8
27.5°	4111.8	4099.2	4093.6	4106.2	4041.7	3814.6	3929.6	4435.7	4386.6	4389.4
30°	3832.9	3828.6	3813.2	3839.9	3640.8	3359.0	3286.1	3973.0	3982.9	3980.1
32.5°	3417.9	3436.1	3506.2	3535.6	3207.6	2974.9	2852.9	3437.5	3638.0	3633.8
35°	2482.8	2482.8	2711.3	3136.1	2810.9	2635.6	2569.7	2914.6	3297.3	3311.3
37.5°	2041.2	2048.2	2093.1	2286.5	2425.3	2363.6	2344.0	2453.4	2859.9	2882.3
40°	1836.5	1836.5	1836.5	1756.6	1752.4	2129.5	2118.3	2083.3	2470.2	2519.3
42.5°	1650.1	1654.3	1657.1	1455.2	1343.0	1840.7	1815.5	1762.2	2121.1	2178.6
45°	1458.0	1465.0	1473.4	1216.9	1167.8	1324.8	1536.5	1477.6	1776.2	1850.5
47.5°	890.2	901.4	1092.1	1031.8	1037.4	1022.0	1253.3	1243.5	1456.6	1561.7
50°	601.4	605.6	623.9	654.7	890.2	803.3	887.4	1029.0	1106.1	1265.9
52.5°	504.7	511.7	466.8	424.8	584.6	628.1	619.6	764.0	794.9	992.6
55°	354.7	377.1	356.1	351.9	332.3	487.9	469.6	587.4	607.0	754.2
57.5°	36.4	42.1	72.9	262.2	217.3	276.2	335.1	430.4	450.0	556.6
60°	2.8	2.8	7.0	36.4	158.4	165.4	231.3	265.0	302.8	388.3
62.5°	0.0	1.4	2.8	5.6	25.2	88.3	116.4	138.8	182.2	250.9
65°	0.0	0.0	1.4	4.2	5.6	33.6	44.9	72.9	99.5	155.6
67.5°	0.0	0.0	1.4	2.8	4.2	8.4	15.4	26.6	53.3	88.3
70°	0.0	0.0	1.4	2.8	4.2	7.0	11.2	16.8	23.8	47.7
72.5°	0.0	0.0	1.4	1.4	2.8	7.0	8.4	11.2	16.8	23.8
75°	0.0	0.0	1.4	1.4	4.2	8.4	7.0	8.4	11.2	15.4
77.5°	0.0	0.0	1.4	2.8	4.2	8.4	7.0	8.4	8.4	9.8
80°	0.0	0.0	1.4	2.8	5.6	9.8	8.4	8.4	7.0	7.0
82.5°	0.0	0.0	1.4	4.2	5.6	12.6	12.6	11.2	5.6	4.2
85°	0.0	0.0	2.8	5.6	8.4	14.0	14.0	11.2	4.2	2.8
87.5°	0.0	0.0	2.8	4.2	7.0	9.8	14.0	11.2	4.2	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°
7576.0	0°	7576.0	7576.0	7576.0	7576.0	7576.0	7576.0	7576.0	7576.0	7576.0
7552.1	2.5°	7590.0	7581.6	7609.6	7620.8	7636.3	7577.4	7540.9	7542.3	7475.0
7466.6	5°	7511.5	7512.9	7549.3	7546.5	7562.0	7529.7	7515.7	7491.9	7433.0
7358.7	7.5°	7412.0	7399.3	7434.4	7461.0	7421.8	7444.2	7412.0	7423.2	7388.1
7263.4	10°	7334.9	7305.4	7337.7	7355.9	7357.3	7334.9	7304.0	7274.6	7262.0
7114.8	12.5°	7163.8	7126.0	7180.6	7205.9	7201.7	7158.2	7123.2	7130.2	7089.5
6854.0	15°	6928.3	6929.7	6969.0	6992.8	6970.4	6960.5	6963.3	6946.5	6911.5
6493.7	17.5°	6568.0	6589.0	6692.8	6750.3	6762.9	6743.2	6733.4	6713.8	6678.8
5918.9	20°	5968.0	6094.2	6279.2	6457.2	6492.3	6486.7	6451.6	6443.2	6423.6
5349.7	22.5°	5440.9	5534.8	5749.3	6026.9	6169.9	6183.9	6141.8	6129.2	6108.2
4840.8	25°	4895.5	4996.4	5189.9	5491.3	5787.1	5847.4	5840.4	5802.6	5780.1
4389.4	27.5°	4435.7	4536.6	4711.9	4983.8	5300.7	5494.1	5512.4	5452.1	5450.7
3987.1	30°	4020.7	4159.5	4292.7	4514.2	4821.2	5111.4	5142.2	5100.2	5104.4
3618.4	32.5°	3695.5	3810.4	3924.0	4072.6	4327.7	4665.6	4786.2	4746.9	4731.5
3311.3	35°	3363.2	3441.7	3558.1	3694.1	3867.9	4203.0	4411.8	4382.4	4367.0
2896.4	37.5°	2984.7	3119.3	3203.4	3356.2	3492.2	3758.6	4053.0	4048.7	4016.5
2543.1	40°	2596.4	2738.0	2865.5	3019.7	3124.9	3336.6	3663.2	3661.8	3666.0
2177.2	42.5°	2244.5	2374.9	2529.1	2697.3	2798.2	2952.4	3302.9	3322.6	3346.4
1875.8	45°	1926.2	2044.0	2187.0	2391.7	2513.6	2602.0	2913.2	3002.9	3001.5
1606.6	47.5°	1640.2	1751.0	1871.6	2070.6	2226.3	2306.2	2564.1	2691.7	2683.3
1317.8	50°	1376.7	1474.8	1601.0	1745.4	1954.3	2024.4	2216.4	2384.7	2372.1
1050.0	52.5°	1107.5	1243.5	1350.1	1481.8	1701.9	1770.6	1919.2	2083.3	2073.4
787.9	55°	863.6	995.4	1124.3	1237.9	1423.0	1525.3	1631.8	1800.1	1797.3
616.8	57.5°	653.3	797.7	919.7	1027.6	1174.8	1301.0	1386.5	1539.3	1558.9
422.0	60°	483.7	594.4	726.2	846.8	963.1	1093.5	1151.0	1301.0	1309.4
288.8	62.5°	329.5	451.4	580.4	689.7	776.7	911.2	963.1	1086.5	1101.9
185.1	65°	228.5	307.0	454.2	532.7	639.3	754.2	806.1	904.2	935.1
106.5	67.5°	151.4	218.7	354.7	426.2	531.3	609.8	675.7	755.6	789.3
67.3	70°	82.7	161.2	253.7	336.5	427.6	503.3	567.8	632.3	661.7
30.8	72.5°	56.1	107.9	176.6	266.4	344.9	419.2	476.7	524.3	525.7
18.2	75°	28.0	72.9	134.6	206.1	269.2	342.1	393.9	422.0	388.3
11.2	77.5°	16.8	53.3	109.3	165.4	218.7	276.2	305.6	321.0	266.4
8.4	80°	9.8	37.9	85.5	131.8	151.4	203.3	231.3	235.5	178.0
5.6	82.5°	7.0	28.0	67.3	96.7	92.5	143.0	173.8	168.2	113.6
4.2	85°	4.2	19.6	42.1	60.3	56.1	93.9	100.9	103.7	65.9
2.8	87.5°	2.8	11.2	22.4	32.2	26.6	40.7	40.7	49.1	32.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<hr/> 7576.0
7388.1
7419.0
7329.2
7205.9
7054.5
6876.4
6663.3
6378.7
6102.6
5756.3
5447.9
5083.4
4732.9
4346.0
4043.1
3666.0
3333.8
3004.3
2686.1
2383.3
2094.5
1804.3
1550.5
1322.0
1104.7
928.1
785.1
650.5
513.1
363.1
256.6
166.8
105.1
60.3
28.0
0.0

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