

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: P638253

Luminaire Tested: **IFLD-S-SA3D-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638253  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13178.4 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

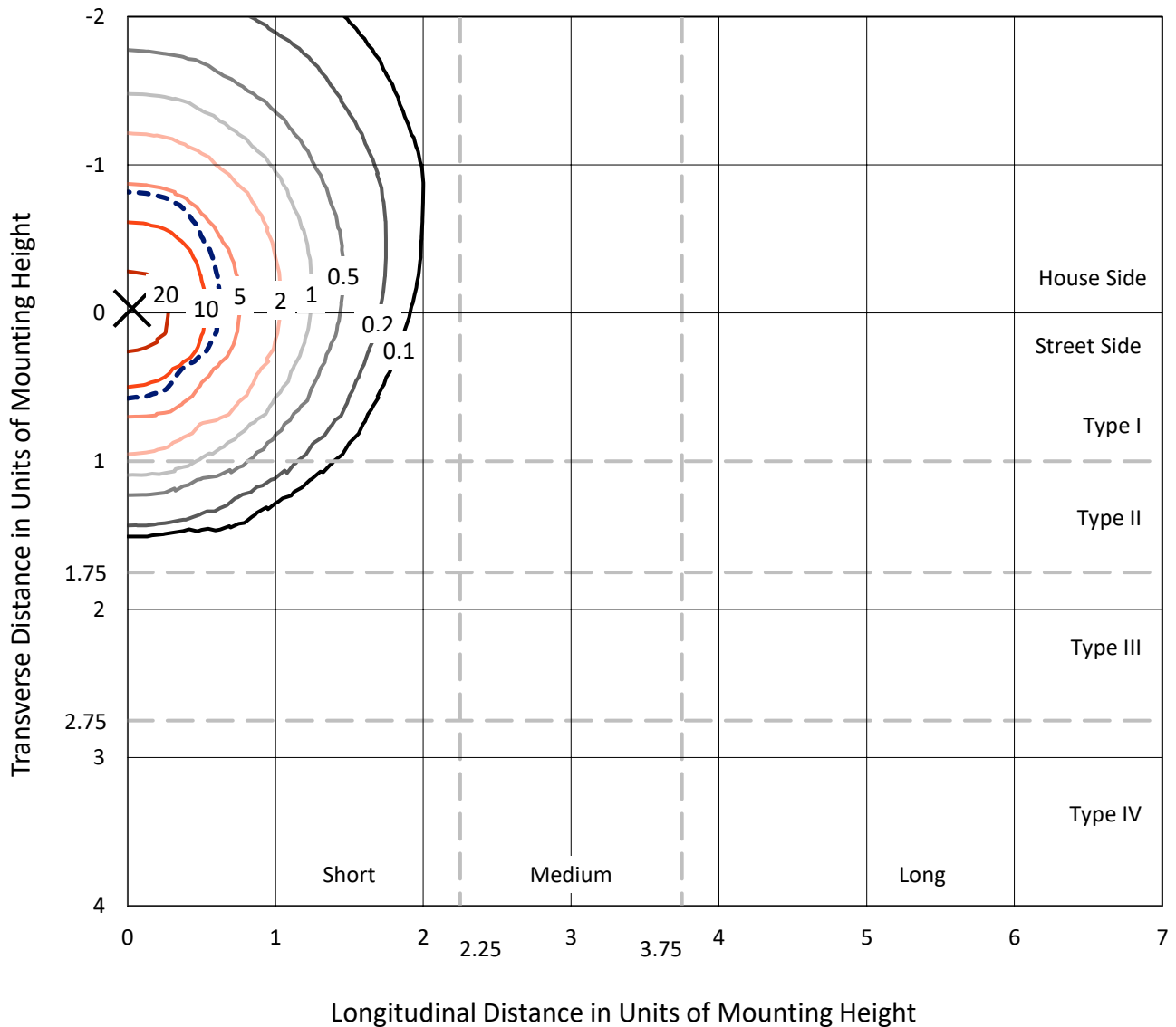
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

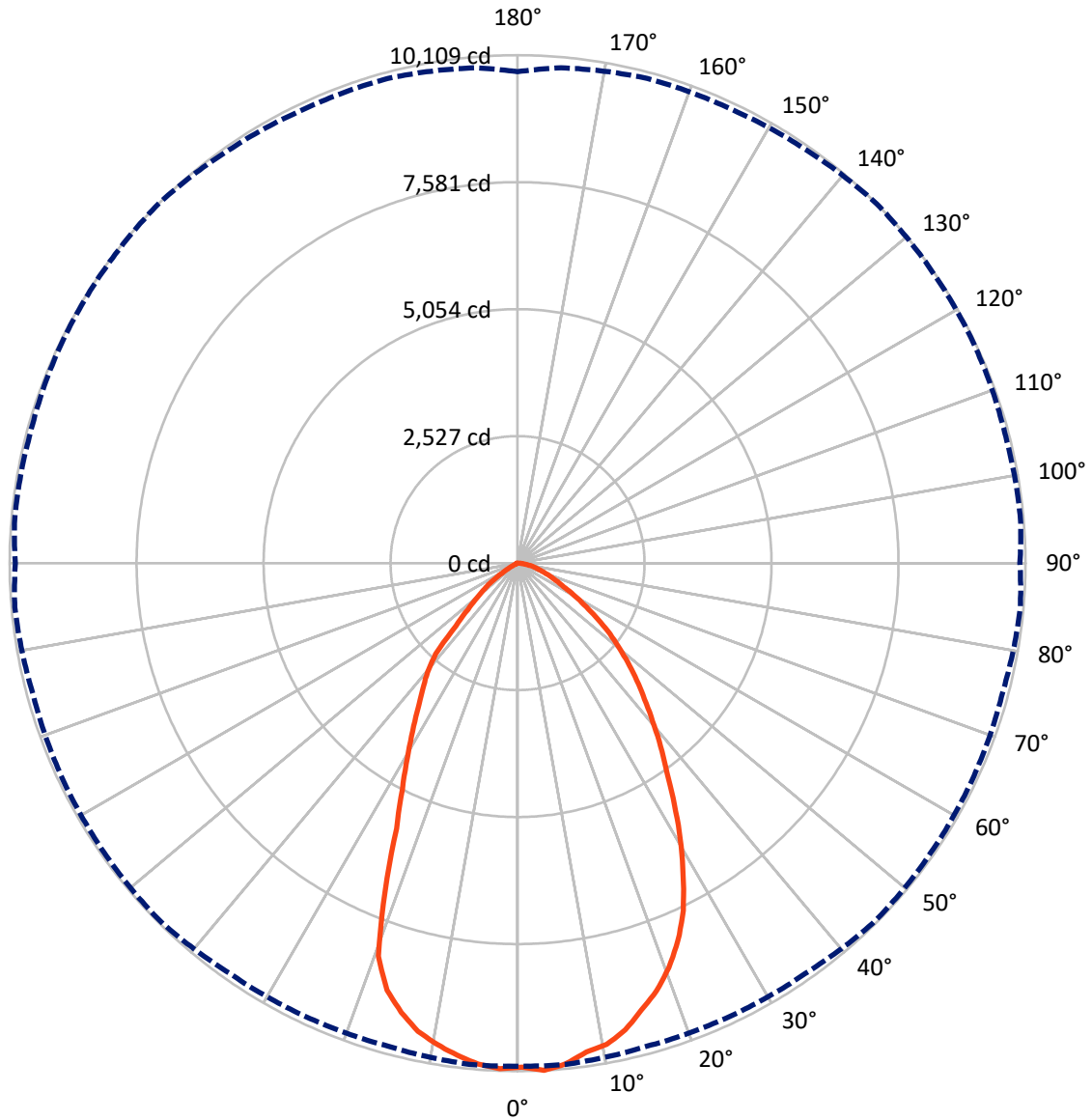
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.1 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	7804.9	0.0	7804.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	5373.5	0.0	5373.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	13178.4	0.0	13178.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	940.5	7.1
10°-20°	2522.1	19.1
20°-30°	3075.9	23.3
30°-40°	2808.2	21.3
40°-50°	2029.4	15.4
50°-60°	1108.1	8.4
60°-70°	458.2	3.5
70°-80°	185.6	1.4
80°-90°	50.5	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°	13178.4	100.0
0°-180°	13178.4	100.0



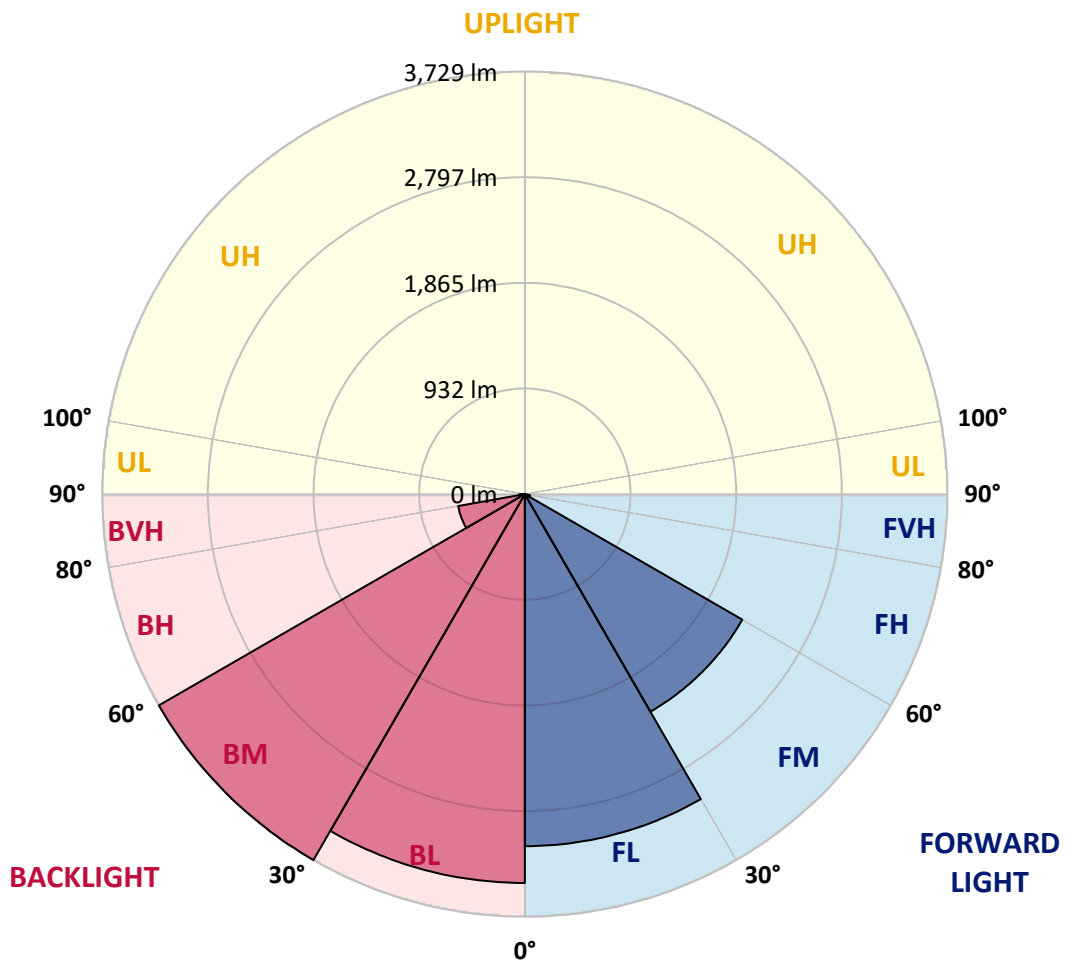
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3106.6	23.6			
FM (30°-60°)	2216.4	16.8			
FH (60°-80°)	46.4	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	3431.9	26.0	B4/5000		
BM (30°-60°)	3729.4	28.3	B3/5000		
BH (60°-80°)	597.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	46.4	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°	10028.7	10028.7	10028.7	10028.7	10028.7	10028.7	10028.7	10028.7	10028.7	10028.7
2.5°	10010.2	10023.2	9952.6	9960.1	9973.1	10067.7	10043.6	10021.3	9989.8	10043.6
5°	9997.2	10004.6	9930.4	9904.4	9915.5	10000.9	9923.0	9923.0	9915.5	9906.3
7.5°	9897.0	9900.7	9843.2	9796.8	9826.5	9865.4	9807.9	9835.7	9794.9	9826.5
10°	9746.7	9722.5	9653.9	9640.9	9674.3	9711.4	9672.4	9698.4	9661.3	9685.4
12.5°	9525.8	9488.7	9433.0	9416.3	9473.9	9524.0	9492.4	9477.6	9429.3	9488.7
15°	8674.0	8646.2	8772.4	8993.2	9191.8	9234.5	9201.1	9215.9	9115.7	9132.4
17.5°	7139.3	7087.3	7222.8	7746.1	8492.1	8885.6	8855.9	8759.4	8610.9	8644.3
20°	6487.9	6473.0	6458.2	6582.5	7104.0	8297.3	8338.1	8093.1	7881.6	7835.2
22.5°	6120.4	6114.9	6100.0	6127.8	6265.2	7031.6	7499.3	7272.9	7131.8	7118.8
25°	5784.5	5775.2	5730.7	5766.0	5766.0	5810.5	6409.9	6547.3	6422.9	6408.1
27.5°	5443.1	5426.4	5418.9	5435.6	5350.3	5049.6	5201.8	5871.7	5806.8	5810.5
30°	5073.8	5068.2	5047.8	5083.0	4819.5	4446.5	4350.0	5259.3	5272.3	5268.6
32.5°	4524.4	4548.6	4641.4	4680.3	4246.1	3938.0	3776.6	4550.4	4815.8	4810.2
35°	3286.6	3286.6	3589.1	4151.4	3720.9	3488.9	3401.7	3858.2	4364.8	4383.4
37.5°	2702.0	2711.3	2770.7	3026.8	3210.5	3128.9	3102.9	3247.6	3785.8	3815.5
40°	2431.1	2431.1	2431.1	2325.3	2319.7	2819.0	2804.1	2757.7	3269.9	3334.9
42.5°	2184.3	2189.8	2193.6	1926.3	1777.9	2436.7	2403.3	2332.7	2807.8	2883.9
45°	1930.0	1939.3	1950.4	1610.8	1545.9	1753.7	2034.0	1956.0	2351.3	2449.7
47.5°	1178.4	1193.3	1445.7	1365.9	1373.3	1352.9	1659.1	1646.1	1928.2	2067.4
50°	796.1	801.7	825.8	866.7	1178.4	1063.4	1174.7	1362.2	1464.2	1675.8
52.5°	668.1	677.4	618.0	562.3	773.9	831.4	820.3	1011.4	1052.2	1313.9
55°	469.5	499.2	471.4	465.8	439.8	645.8	621.7	777.6	803.6	998.4
57.5°	48.3	55.7	96.5	347.0	287.6	365.6	443.5	569.7	595.7	736.8
60°	3.7	3.7	9.3	48.3	209.7	219.0	306.2	350.7	400.9	514.1
62.5°	0.0	1.9	3.7	7.4	33.4	116.9	154.0	183.7	241.3	332.2
65°	0.0	0.0	1.9	5.6	7.4	44.5	59.4	96.5	131.8	206.0
67.5°	0.0	0.0	1.9	3.7	5.6	11.1	20.4	35.3	70.5	116.9
70°	0.0	0.0	1.9	3.7	5.6	9.3	14.8	22.3	31.5	63.1
72.5°	0.0	0.0	1.9	1.9	3.7	9.3	11.1	14.8	22.3	31.5
75°	0.0	0.0	1.9	1.9	5.6	11.1	9.3	11.1	14.8	20.4
77.5°	0.0	0.0	1.9	3.7	5.6	11.1	9.3	11.1	11.1	13.0
80°	0.0	0.0	1.9	3.7	7.4	13.0	11.1	11.1	9.3	9.3
82.5°	0.0	0.0	1.9	5.6	7.4	16.7	16.7	14.8	7.4	5.6
85°	0.0	0.0	3.7	7.4	11.1	18.6	18.6	14.8	5.6	3.7
87.5°	0.0	0.0	3.7	5.6	9.3	13.0	18.6	14.8	5.6	1.9
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°
10028.7	0°	10028.7	10028.7	10028.7	10028.7	10028.7	10028.7	10028.7	10028.7	10028.7
9997.2	2.5°	10047.3	10036.2	10073.3	10088.1	10108.5	10030.6	9982.3	9984.2	9895.1
9884.0	5°	9943.4	9945.2	9993.5	9989.8	10010.2	9967.5	9948.9	9917.4	9839.4
9741.1	7.5°	9811.6	9794.9	9841.3	9876.6	9824.6	9854.3	9811.6	9826.5	9780.1
9614.9	10°	9709.5	9670.6	9713.3	9737.4	9739.2	9709.5	9668.7	9629.7	9613.0
9418.2	12.5°	9483.1	9433.0	9505.4	9538.8	9533.2	9475.7	9429.3	9438.6	9384.8
9073.0	15°	9171.4	9173.2	9225.2	9256.7	9227.0	9214.0	9217.8	9195.5	9149.1
8596.1	17.5°	8694.4	8722.3	8859.6	8935.7	8952.4	8926.4	8913.4	8887.4	8841.0
7835.2	20°	7900.1	8067.2	8312.1	8547.8	8594.2	8586.8	8540.4	8529.3	8503.3
7081.7	22.5°	7202.4	7326.7	7610.6	7978.1	8167.4	8185.9	8130.3	8113.6	8085.7
6408.1	25°	6480.5	6614.1	6870.2	7269.2	7660.7	7740.5	7731.3	7681.2	7651.5
5810.5	27.5°	5871.7	6005.4	6237.3	6597.4	7016.8	7272.9	7297.0	7217.2	7215.3
5277.9	30°	5322.4	5506.2	5682.5	5975.7	6382.1	6766.2	6807.1	6751.4	6757.0
4789.8	32.5°	4891.9	5044.1	5194.4	5391.1	5728.9	6176.1	6335.7	6283.7	6263.3
4383.4	35°	4452.1	4556.0	4710.0	4890.0	5120.1	5563.7	5840.2	5801.2	5780.8
3834.1	37.5°	3951.0	4129.2	4240.5	4442.8	4622.8	4975.4	5365.1	5359.5	5316.9
3366.4	40°	3436.9	3624.4	3793.3	3997.4	4136.6	4416.8	4849.2	4847.3	4852.9
2882.1	42.5°	2971.1	3143.7	3347.9	3570.6	3704.2	3908.3	4372.3	4398.2	4429.8
2483.1	45°	2549.9	2705.8	2895.0	3166.0	3327.4	3444.4	3856.4	3975.1	3973.3
2126.7	47.5°	2171.3	2317.9	2477.5	2741.0	2947.0	3052.8	3394.3	3563.1	3552.0
1744.5	50°	1822.4	1952.3	2119.3	2310.5	2587.0	2679.8	2934.0	3156.7	3140.0
1390.0	52.5°	1466.1	1646.1	1787.1	1961.6	2252.9	2343.9	2540.6	2757.7	2744.7
1043.0	55°	1143.2	1317.6	1488.4	1638.7	1883.6	2019.1	2160.2	2382.8	2379.1
816.6	57.5°	864.8	1055.9	1217.4	1360.3	1555.2	1722.2	1835.4	2037.7	2063.6
558.6	60°	640.3	786.9	961.3	1120.9	1274.9	1447.5	1523.6	1722.2	1733.3
382.3	62.5°	436.1	597.6	768.3	913.1	1028.1	1206.3	1274.9	1438.2	1458.7
245.0	65°	302.5	406.4	601.3	705.2	846.2	998.4	1067.1	1197.0	1237.8
141.0	67.5°	200.4	289.5	469.5	564.2	703.3	807.3	894.5	1000.3	1044.8
89.1	70°	109.5	213.4	335.9	445.4	566.0	666.2	751.6	837.0	875.9
40.8	72.5°	74.2	142.9	233.8	352.6	456.5	554.9	631.0	694.1	695.9
24.1	75°	37.1	96.5	178.2	272.8	356.3	452.8	521.5	558.6	514.1
14.8	77.5°	22.3	70.5	144.8	219.0	289.5	365.6	404.6	425.0	352.6
11.1	80°	13.0	50.1	113.2	174.4	200.4	269.1	306.2	311.8	235.7
7.4	82.5°	9.3	37.1	89.1	128.1	122.5	189.3	230.1	222.7	150.3
5.6	85°	5.6	26.0	55.7	79.8	74.2	124.3	133.6	137.3	87.2
3.7	87.5°	3.7	14.8	29.7	42.7	35.3	53.8	53.8	65.0	42.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<hr/> 10028.7
9780.1
9820.9
9702.1
9538.8
9338.4
9102.7
8820.6
8443.9
8078.3
7619.9
7211.6
6729.1
6265.2
5753.0
5352.1
4852.9
4413.1
3977.0
3555.7
3154.9
2772.6
2388.4
2052.5
1750.0
1462.4
1228.5
1039.2
861.1
679.2
480.7
339.6
220.8
139.2
79.8
37.1
0.0

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