

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: P637278

Luminaire Tested: **IFLD-M-SA4E-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637278
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25721.1 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

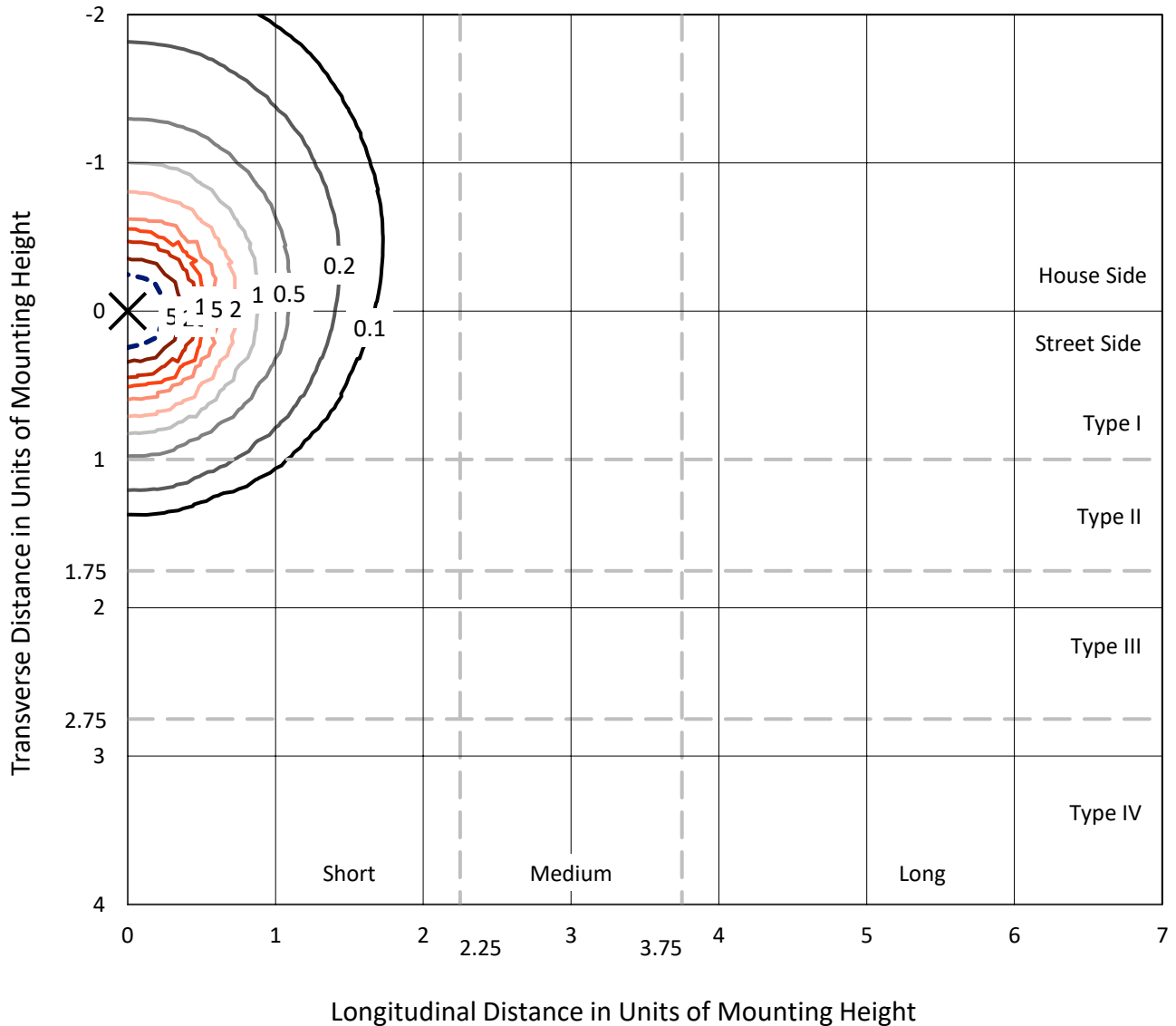
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

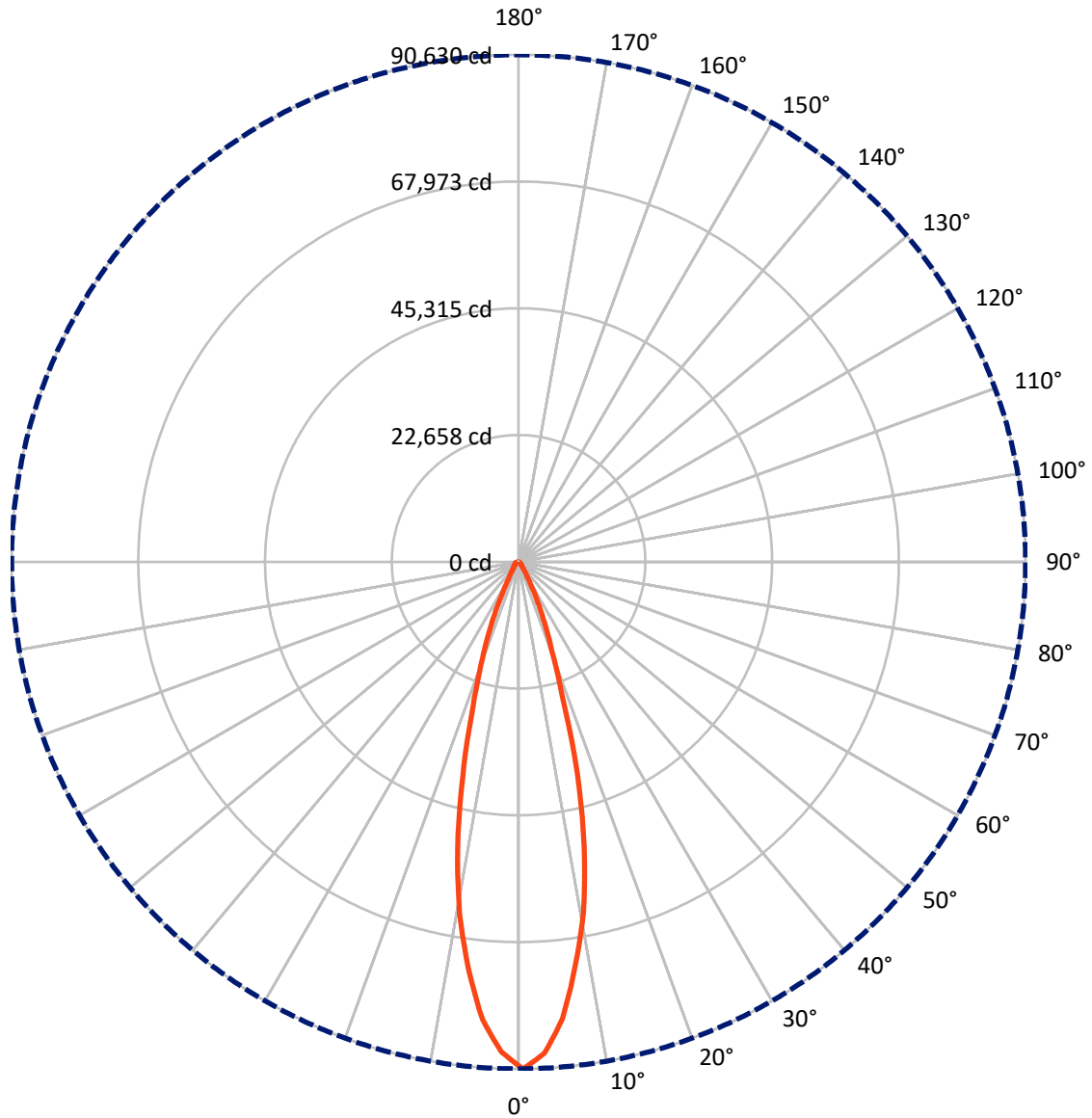
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 226.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13561.9	0.0	13561.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12159.2	0.0	12159.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	25721.1	0.0	25721.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7314.7	28.4
10°-20°	11078.0	43.1
20°-30°	4675.0	18.2
30°-40°	1219.3	4.7
40°-50°	616.7	2.4
50°-60°	403.1	1.6
60°-70°	241.5	0.9
70°-80°	127.0	0.5
80°-90°	45.9	0.2
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°	25721.1	100.0
0°-180°	25721.1	100.0

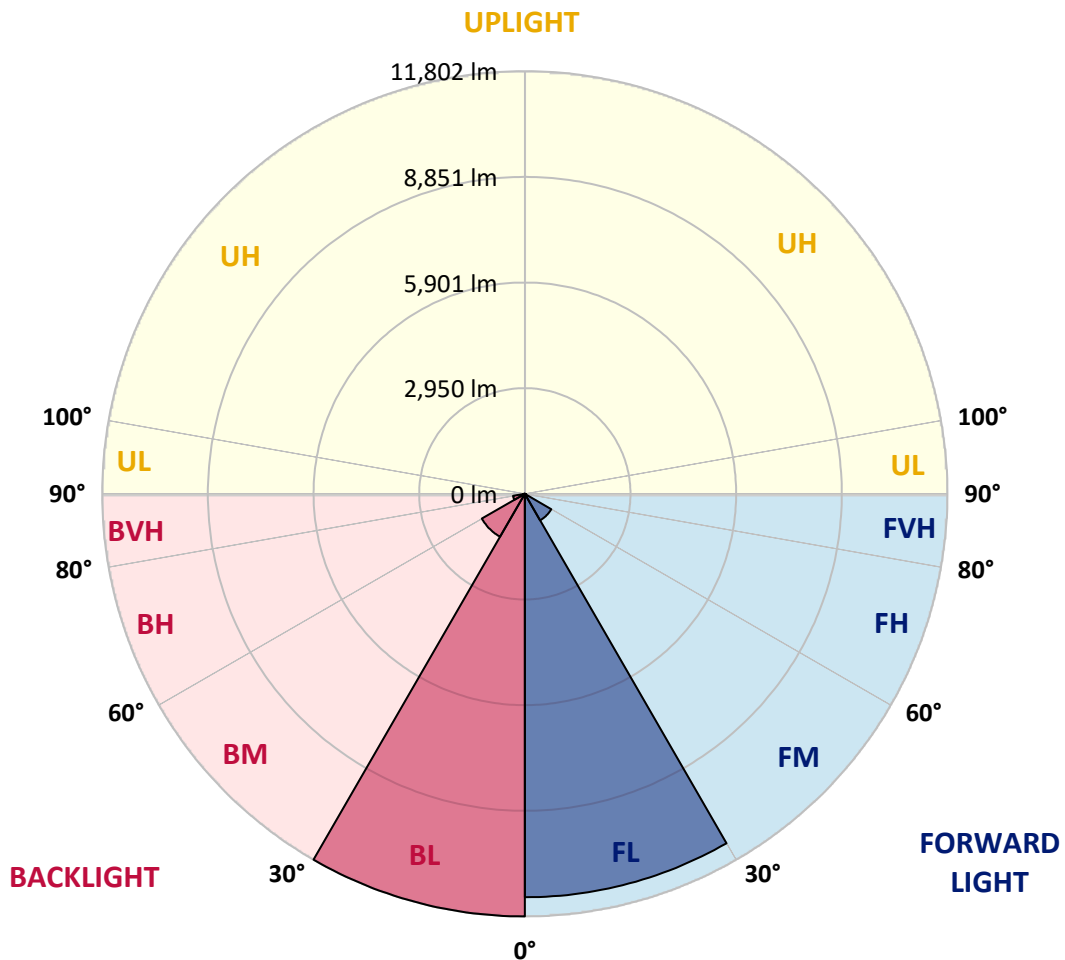


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11265.7	43.8			
FM (30°-60°)	853.2	3.3			
FH (60°-80°)	34.8	0.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	11801.9	45.9	B5		
BM (30°-60°)	1385.9	5.4	B2/2500		
BH (60°-80°)	333.8	1.3	B1/500		G0/660
BVH (80°-90°)	40.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	90630.1	90630.1	90630.1	90630.1	90630.1	90630.1	90630.1	90630.1	90630.1	90630.1
2.5°	87990.0	88039.1	87857.1	88250.0	87943.8	88764.1	88356.9	88992.3	88778.6	89133.9
5°	81981.9	81901.0	81849.0	82458.5	82282.3	83163.3	82600.0	82415.2	82987.1	82883.1
7.5°	72909.1	73122.8	73001.5	73160.4	73249.9	74255.1	74572.8	74324.4	74333.1	74477.5
10°	63608.0	63293.2	62845.5	63143.0	63772.7	64211.7	64035.5	64399.5	64318.6	64662.3
12.5°	52163.7	52412.1	52160.8	51895.1	52995.6	52874.3	53180.5	53379.8	52880.1	53992.2
15°	39292.5	39422.5	39728.7	39708.4	40554.8	40725.2	40684.8	40895.6	40505.7	40690.5
17.5°	25242.8	25681.8	26505.0	27897.3	29462.9	29644.9	29598.6	29425.3	29237.6	29029.6
20°	16955.6	16909.4	17206.9	17614.2	20855.1	21713.0	21687.0	21143.9	20358.3	20208.1
22.5°	11877.6	11964.2	11923.8	12328.2	12998.3	15364.0	15072.3	14520.6	14263.5	14096.0
25°	7813.4	7781.7	7983.9	8105.2	8680.0	8968.8	9991.4	9786.3	9390.6	9433.9
27.5°	4763.2	4803.6	4878.7	4982.7	5390.0	5297.5	5881.0	5959.0	5831.9	5696.2
30°	2923.2	2952.1	3012.7	3087.8	3229.4	3128.3	3290.0	3570.2	3524.0	3428.7
32.5°	1984.4	1987.3	2030.6	2059.5	2042.2	1946.9	1998.9	2264.6	2270.4	2261.7
35°	1426.9	1426.9	1467.4	1490.5	1441.4	1363.4	1372.0	1536.7	1608.9	1623.3
37.5°	985.0	987.9	1057.2	1126.5	1071.6	1051.4	1016.8	1126.5	1242.1	1259.4
40°	748.1	745.2	779.9	831.9	837.7	800.1	811.7	881.0	999.4	1013.9
42.5°	606.6	609.5	626.8	621.0	623.9	673.0	690.4	722.1	831.9	857.9
45°	511.3	514.2	522.8	493.9	482.4	557.5	580.6	597.9	690.4	722.1
47.5°	421.7	427.5	436.2	404.4	398.6	447.7	488.2	505.5	586.4	621.0
50°	303.3	309.1	340.8	323.5	340.8	352.4	407.3	433.3	488.2	534.4
52.5°	219.5	225.3	234.0	236.9	280.2	286.0	326.4	366.8	392.8	444.8
55°	173.3	179.1	173.3	167.5	205.1	236.9	251.3	294.6	314.8	375.5
57.5°	98.2	104.0	112.7	130.0	135.8	182.0	196.4	234.0	251.3	309.1
60°	17.3	20.2	31.8	78.0	95.3	115.5	147.3	179.1	202.2	242.6
62.5°	2.9	2.9	5.8	17.3	54.9	80.9	106.9	127.1	147.3	184.9
65°	0.0	0.0	2.9	5.8	14.4	46.2	57.8	75.1	101.1	132.9
67.5°	0.0	0.0	2.9	5.8	8.7	17.3	26.0	46.2	57.8	89.5
70°	0.0	0.0	2.9	5.8	8.7	11.6	14.4	20.2	34.7	54.9
72.5°	0.0	0.0	2.9	5.8	8.7	11.6	14.4	17.3	17.3	34.7
75°	0.0	0.0	2.9	5.8	8.7	14.4	17.3	17.3	14.4	14.4
77.5°	0.0	0.0	2.9	5.8	11.6	17.3	20.2	17.3	11.6	11.6
80°	0.0	0.0	5.8	8.7	14.4	20.2	26.0	20.2	11.6	5.8
82.5°	0.0	0.0	5.8	11.6	14.4	23.1	31.8	26.0	11.6	5.8
85°	0.0	0.0	2.9	8.7	17.3	23.1	31.8	23.1	11.6	2.9
87.5°	0.0	0.0	2.9	2.9	5.8	8.7	17.3	14.4	5.8	2.9
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°
90630.1	0°	90630.1	90630.1	90630.1	90630.1	90630.1	90630.1	90630.1	90630.1	90630.1
88460.8	2.5°	88969.2	89431.4	89526.7	89399.6	89584.5	89252.3	88998.1	88339.5	87943.8
82851.3	5°	83385.7	83316.4	83798.8	83957.6	83937.4	83683.2	83327.9	82929.3	82542.3
74197.3	7.5°	74659.5	74749.0	75188.1	75468.3	75326.7	75009.0	74763.5	74463.1	74203.1
64786.6	10°	65378.7	64763.4	65309.4	65309.4	65687.8	64789.4	64873.2	64116.4	64151.1
53971.9	12.5°	54156.8	54379.2	54468.8	54725.8	54283.9	53807.3	53223.8	53108.3	52747.2
40338.1	15°	40918.7	41554.2	41008.3	41941.3	41490.7	40993.8	40904.3	40008.9	40291.9
29257.8	17.5°	29113.4	29815.3	30034.8	30569.2	30159.0	29864.4	29491.8	29220.2	29200.0
20482.5	20°	20644.2	21349.0	21510.8	22152.0	22105.8	22013.4	21698.5	21354.8	20982.2
13942.9	22.5°	14153.7	14728.5	15265.8	16129.5	16115.0	15843.5	15811.7	15326.5	15335.1
9419.5	25°	9517.7	9936.5	10063.6	10947.5	11045.7	11016.8	10852.2	10401.6	10572.0
5753.9	27.5°	5759.7	6126.5	6556.9	6868.9	7163.5	7117.3	6952.7	6701.4	6591.6
3457.6	30°	3550.0	3714.6	3873.5	4249.0	4425.2	4517.6	4439.7	4205.7	4223.0
2276.2	32.5°	2325.3	2463.9	2579.4	2816.3	2908.7	3079.2	3047.4	2998.3	2940.5
1637.8	35°	1695.6	1796.7	1874.6	1984.4	2102.8	2247.3	2270.4	2250.2	2227.0
1265.2	37.5°	1294.1	1398.0	1487.6	1533.8	1626.2	1738.9	1802.4	1799.5	1782.2
1031.2	40°	1051.4	1129.4	1210.3	1270.9	1334.5	1418.3	1496.3	1504.9	1504.9
866.6	42.5°	878.1	944.5	1025.4	1089.0	1135.2	1213.2	1294.1	1299.8	1294.1
733.7	45°	751.0	808.8	886.8	961.9	999.4	1057.2	1135.2	1152.5	1141.0
629.7	47.5°	652.8	704.8	771.2	852.1	892.6	944.5	1016.8	1037.0	1034.1
543.0	50°	560.4	621.0	687.5	753.9	805.9	855.0	924.3	947.4	938.8
462.2	52.5°	493.9	548.8	606.6	678.8	739.5	782.8	837.7	878.1	866.6
389.9	55°	413.1	479.5	540.2	600.8	675.9	722.1	774.1	823.2	811.7
329.3	57.5°	358.2	413.1	482.4	537.3	612.4	667.2	719.2	771.2	768.3
268.6	60°	300.4	358.2	424.6	482.4	551.7	612.4	664.4	722.1	727.9
202.2	62.5°	236.9	306.2	364.0	430.4	499.7	566.1	612.4	670.1	678.8
153.1	65°	179.1	251.3	314.8	378.4	447.7	519.9	560.4	609.5	618.1
112.7	67.5°	132.9	193.5	268.6	326.4	398.6	467.9	505.5	545.9	560.4
69.3	70°	101.1	147.3	225.3	280.2	355.3	410.2	450.6	485.3	496.8
46.2	72.5°	63.5	115.5	182.0	239.7	306.2	355.3	384.2	404.4	421.7
26.0	75°	43.3	89.5	147.3	205.1	254.2	291.7	317.7	335.1	349.5
11.6	77.5°	26.0	69.3	121.3	170.4	202.2	231.1	257.1	268.6	277.3
8.7	80°	14.4	52.0	101.1	138.6	158.9	179.1	199.3	213.8	219.5
5.8	82.5°	8.7	40.4	80.9	106.9	115.5	135.8	156.0	164.6	164.6
2.9	85°	5.8	28.9	54.9	78.0	83.8	98.2	104.0	109.8	115.5
2.9	87.5°	5.8	17.3	34.7	43.3	46.2	52.0	54.9	60.7	66.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>90630.1</u>
87652.1
82109.0
73322.1
63813.1
52417.9
40008.9
28662.8
20820.4
15167.6
10303.3
6496.3
4147.9
2920.3
2218.4
1773.5
1487.6
1288.3
1141.0
1028.3
933.0
863.7
817.5
771.2
730.8
684.6
626.8
566.1
502.6
418.8
346.6
274.4
213.8
161.8
112.7
63.5
0.0

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