

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: P637322

Luminaire Tested: **IFLD-S-SA3A-730-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637322  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-730-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12083.5 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

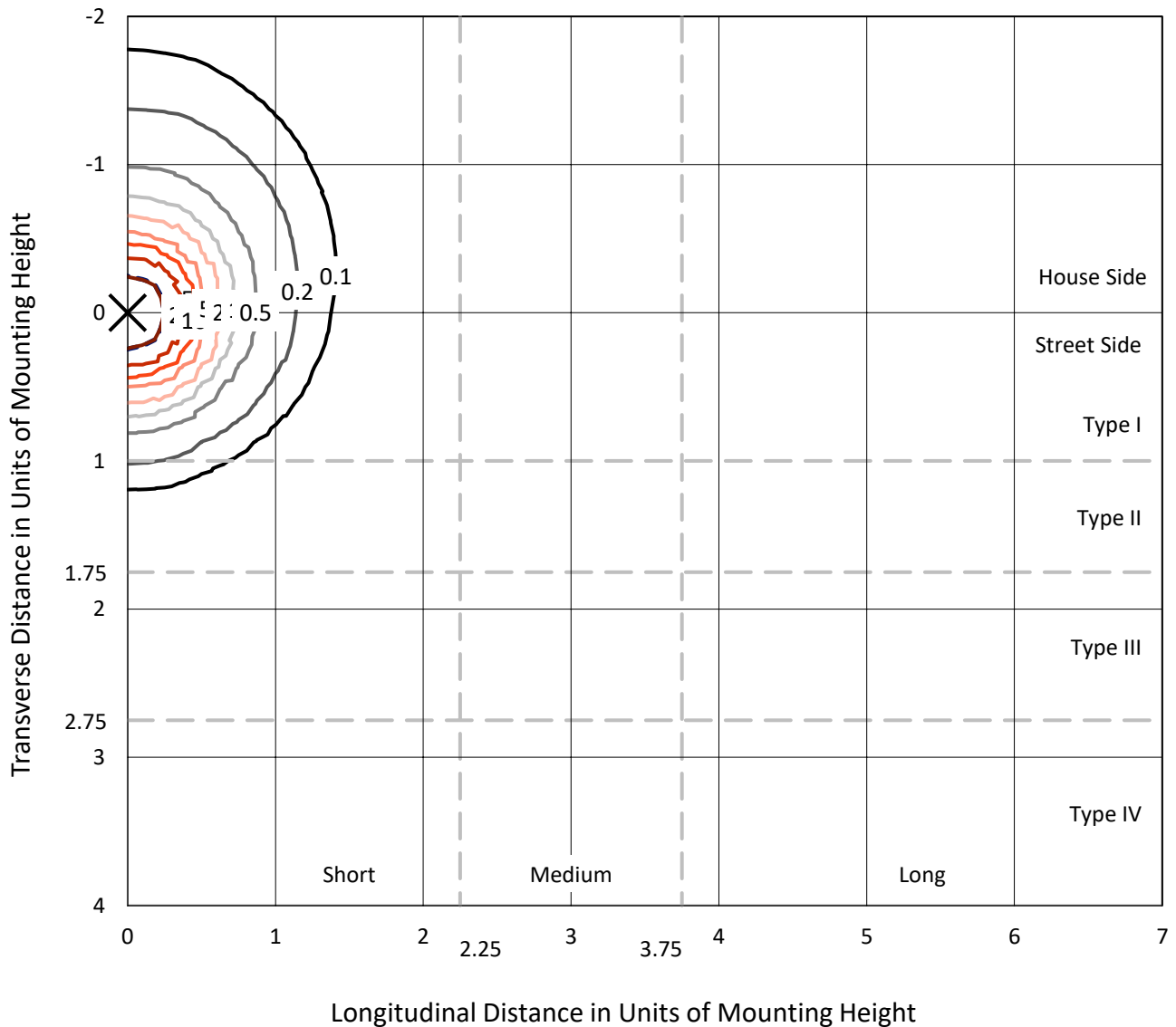
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

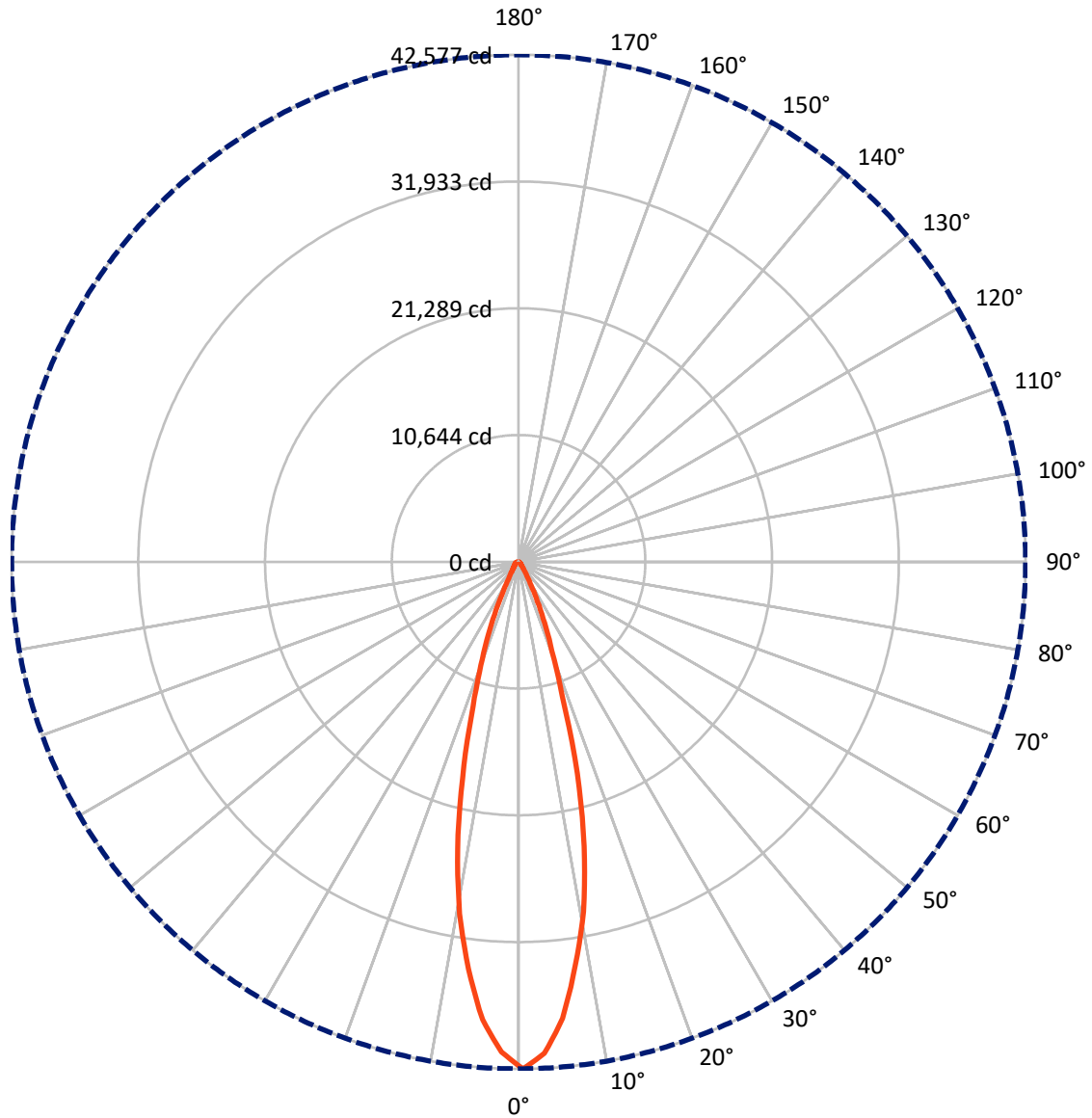
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 106.4 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
<b>House Side</b>	Lumens	6371.3	0.0	6371.3
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	5712.3	0.0	5712.3
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	12083.5	0.0	12083.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3436.4	28.4
10°-20°	5204.3	43.1
20°-30°	2196.3	18.2
30°-40°	572.8	4.7
40°-50°	289.7	2.4
50°-60°	189.4	1.6
60°-70°	113.5	0.9
70°-80°	59.7	0.5
80°-90°	21.6	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°	12083.5	100.0
0°-180°	12083.5	100.0



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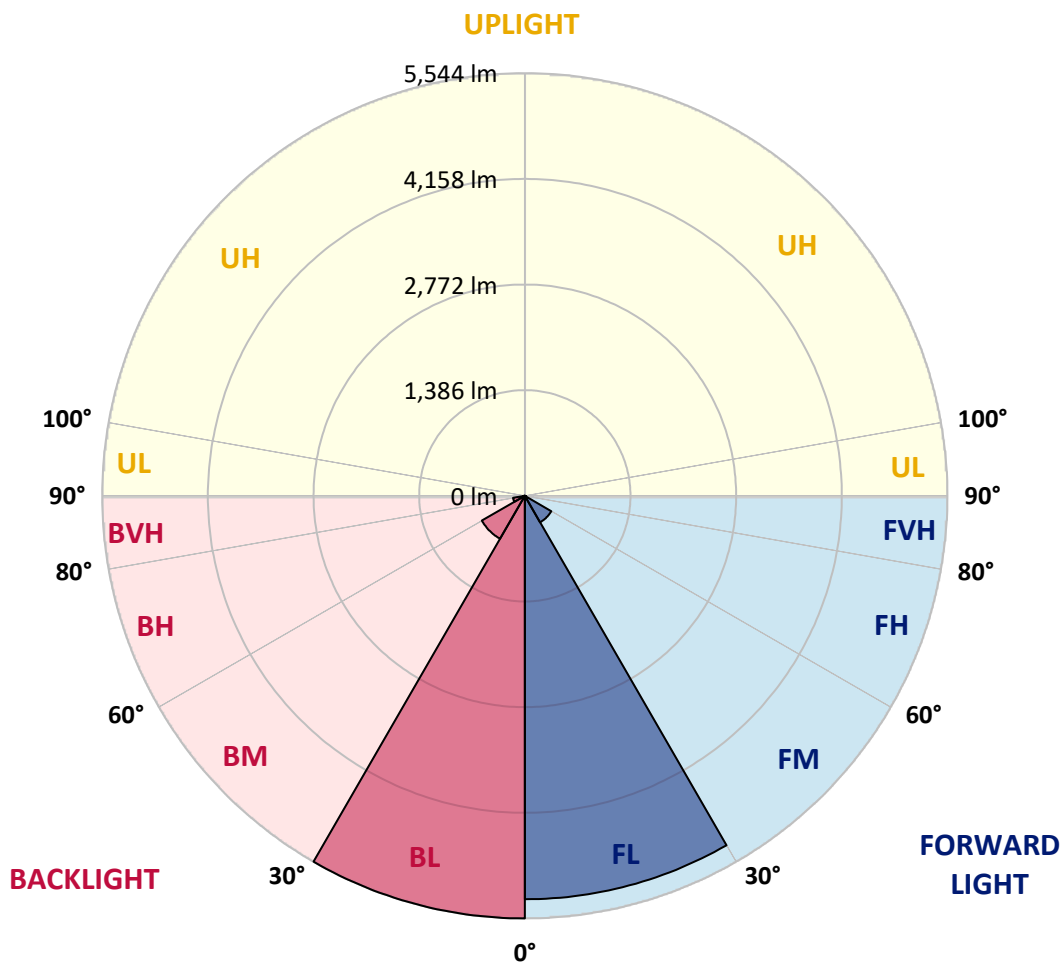
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5292.5	43.8			
FM (30°-60°)	400.8	3.3			
FH (60°-80°)	16.3	0.1			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	5544.4	45.9	B5		
BM (30°-60°)	651.1	5.4	B1/1000		
BH (60°-80°)	156.8	1.3	B1/500		G0/660
BVH (80°-90°)	18.9	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°	42577.2	42577.2	42577.2	42577.2	42577.2	42577.2	42577.2	42577.2	42577.2	42577.2
2.5°	41336.9	41359.9	41274.4	41459.0	41315.2	41700.5	41509.2	41807.7	41707.3	41874.2
5°	38514.3	38476.3	38451.9	38738.2	38655.4	39069.3	38804.7	38717.9	38986.5	38937.7
7.5°	34252.0	34352.4	34295.4	34370.0	34412.1	34884.3	35033.6	34916.9	34921.0	34988.8
10°	29882.4	29734.5	29524.2	29664.0	29959.8	30166.1	30083.3	30254.3	30216.3	30377.8
12.5°	24506.0	24622.7	24504.7	24379.8	24896.8	24839.8	24983.7	25077.3	24842.6	25365.0
15°	18459.2	18520.3	18664.1	18654.6	19052.2	19132.3	19113.3	19212.4	19029.2	19116.0
17.5°	11858.8	12065.1	12451.8	13105.9	13841.4	13926.9	13905.2	13823.7	13735.5	13637.8
20°	7965.6	7943.9	8083.6	8275.0	9797.5	10200.6	10188.3	9933.2	9564.1	9493.6
22.5°	5580.0	5620.7	5601.7	5791.7	6106.5	7217.9	7080.8	6821.6	6700.9	6622.1
25°	3670.7	3655.8	3750.7	3807.7	4077.8	4213.5	4693.9	4597.5	4411.6	4432.0
27.5°	2237.7	2256.7	2292.0	2340.8	2532.2	2488.7	2762.8	2799.5	2739.8	2676.0
30°	1373.3	1386.9	1415.3	1450.6	1517.1	1469.6	1545.6	1677.2	1655.5	1610.8
32.5°	932.3	933.6	954.0	967.5	959.4	914.6	939.0	1063.9	1066.6	1062.5
35°	670.4	670.4	689.4	700.2	677.1	640.5	644.6	721.9	755.8	762.6
37.5°	462.7	464.1	496.7	529.2	503.4	493.9	477.7	529.2	583.5	591.7
40°	351.5	350.1	366.4	390.8	393.5	375.9	381.3	413.9	469.5	476.3
42.5°	285.0	286.3	294.5	291.8	293.1	316.2	324.3	339.2	390.8	403.0
45°	240.2	241.5	245.6	232.0	226.6	261.9	272.8	280.9	324.3	339.2
47.5°	198.1	200.8	204.9	190.0	187.3	210.3	229.3	237.5	275.5	291.8
50°	142.5	145.2	160.1	152.0	160.1	165.6	191.3	203.5	229.3	251.0
52.5°	103.1	105.8	109.9	111.3	131.6	134.3	153.3	172.3	184.6	209.0
55°	81.4	84.1	81.4	78.7	96.3	111.3	118.1	138.4	147.9	176.4
57.5°	46.1	48.9	52.9	61.1	63.8	85.5	92.3	109.9	118.1	145.2
60°	8.1	9.5	14.9	36.6	44.8	54.3	69.2	84.1	95.0	114.0
62.5°	1.4	1.4	2.7	8.1	25.8	38.0	50.2	59.7	69.2	86.8
65°	0.0	0.0	1.4	2.7	6.8	21.7	27.1	35.3	47.5	62.4
67.5°	0.0	0.0	1.4	2.7	4.1	8.1	12.2	21.7	27.1	42.1
70°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	9.5	16.3	25.8
72.5°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	8.1	8.1	16.3
75°	0.0	0.0	1.4	2.7	4.1	6.8	8.1	8.1	6.8	6.8
77.5°	0.0	0.0	1.4	2.7	5.4	8.1	9.5	8.1	5.4	5.4
80°	0.0	0.0	2.7	4.1	6.8	9.5	12.2	9.5	5.4	2.7
82.5°	0.0	0.0	2.7	5.4	6.8	10.9	14.9	12.2	5.4	2.7
85°	0.0	0.0	1.4	4.1	8.1	10.9	14.9	10.9	5.4	1.4
87.5°	0.0	0.0	1.4	1.4	2.7	4.1	8.1	6.8	2.7	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°
42577.2	0°	42577.2	42577.2	42577.2	42577.2	42577.2	42577.2	42577.2	42577.2	42577.2
41558.1	2.5°	41796.9	42014.0	42058.8	41999.1	42085.9	41929.9	41810.5	41501.1	41315.2
38922.8	5°	39173.8	39141.2	39367.9	39442.5	39433.0	39313.6	39146.7	38959.4	38777.6
34857.2	7.5°	35074.3	35116.4	35322.7	35454.3	35387.8	35238.5	35123.2	34982.0	34859.9
30436.1	10°	30714.3	30425.2	30681.7	30681.7	30859.5	30437.5	30476.8	30121.3	30137.6
25355.5	12.5°	25442.4	25546.8	25588.9	25709.7	25502.1	25278.2	25004.0	24949.8	24780.1
18950.5	15°	19223.2	19521.8	19265.3	19703.6	19491.9	19258.5	19216.4	18795.8	18928.8
13745.0	17.5°	13677.2	14006.9	14110.1	14361.1	14168.4	14030.0	13854.9	13727.4	13717.9
9622.5	20°	9698.5	10029.6	10105.6	10406.8	10385.1	10341.7	10193.8	10032.3	9857.2
6550.2	22.5°	6649.3	6919.3	7171.7	7577.5	7570.7	7443.1	7428.2	7200.2	7204.3
4425.2	25°	4471.3	4668.1	4727.8	5143.0	5189.2	5175.6	5098.2	4886.5	4966.6
2703.1	27.5°	2705.9	2878.2	3080.4	3226.9	3365.4	3343.6	3266.3	3148.2	3096.7
1624.3	30°	1667.8	1745.1	1819.7	1996.1	2078.9	2122.3	2085.7	1975.8	1983.9
1069.3	32.5°	1092.4	1157.5	1211.8	1323.1	1366.5	1446.6	1431.6	1408.6	1381.4
769.4	35°	796.6	844.1	880.7	932.3	987.9	1055.7	1066.6	1057.1	1046.2
594.4	37.5°	607.9	656.8	698.9	720.6	764.0	816.9	846.8	845.4	837.3
484.4	40°	493.9	530.6	568.6	597.1	626.9	666.3	702.9	707.0	707.0
407.1	42.5°	412.5	443.7	481.7	511.6	533.3	569.9	607.9	610.6	607.9
344.7	45°	352.8	380.0	416.6	451.9	469.5	496.7	533.3	541.4	536.0
295.8	47.5°	306.7	331.1	362.3	400.3	419.3	443.7	477.7	487.2	485.8
255.1	50°	263.3	291.8	323.0	354.2	378.6	401.7	434.2	445.1	441.0
217.1	52.5°	232.0	257.8	285.0	318.9	347.4	367.7	393.5	412.5	407.1
183.2	55°	194.1	225.3	253.8	282.3	317.5	339.2	363.7	386.7	381.3
154.7	57.5°	168.3	194.1	226.6	252.4	287.7	313.5	337.9	362.3	361.0
126.2	60°	141.1	168.3	199.5	226.6	259.2	287.7	312.1	339.2	342.0
95.0	62.5°	111.3	143.8	171.0	202.2	234.8	266.0	287.7	314.8	318.9
71.9	65°	84.1	118.1	147.9	177.8	210.3	244.3	263.3	286.3	290.4
52.9	67.5°	62.4	90.9	126.2	153.3	187.3	219.8	237.5	256.5	263.3
32.6	70°	47.5	69.2	105.8	131.6	166.9	192.7	211.7	228.0	233.4
21.7	72.5°	29.9	54.3	85.5	112.6	143.8	166.9	180.5	190.0	198.1
12.2	75°	20.4	42.1	69.2	96.3	119.4	137.1	149.3	157.4	164.2
5.4	77.5°	12.2	32.6	57.0	80.1	95.0	108.6	120.8	126.2	130.3
4.1	80°	6.8	24.4	47.5	65.1	74.6	84.1	93.6	100.4	103.1
2.7	82.5°	4.1	19.0	38.0	50.2	54.3	63.8	73.3	77.3	77.3
1.4	85°	2.7	13.6	25.8	36.6	39.4	46.1	48.9	51.6	54.3
1.4	87.5°	2.7	8.1	16.3	20.4	21.7	24.4	25.8	28.5	31.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
42577.2  
41178.1  
38574.0  
34446.0  
29978.8  
24625.4  
18795.8  
13465.5  
9781.2  
7125.6  
4840.4  
3051.9  
1948.6  
1371.9  
1042.2  
833.2  
698.9  
605.2  
536.0  
483.1  
438.3  
405.7  
384.0  
362.3  
343.3  
321.6  
294.5  
266.0  
236.1  
196.8  
162.8  
128.9  
100.4  
76.0  
52.9  
29.9  
0.0

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