

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: P637332

Luminaire Tested: **IFLD-M-SA4A-730-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637332  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-730-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16219.1 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

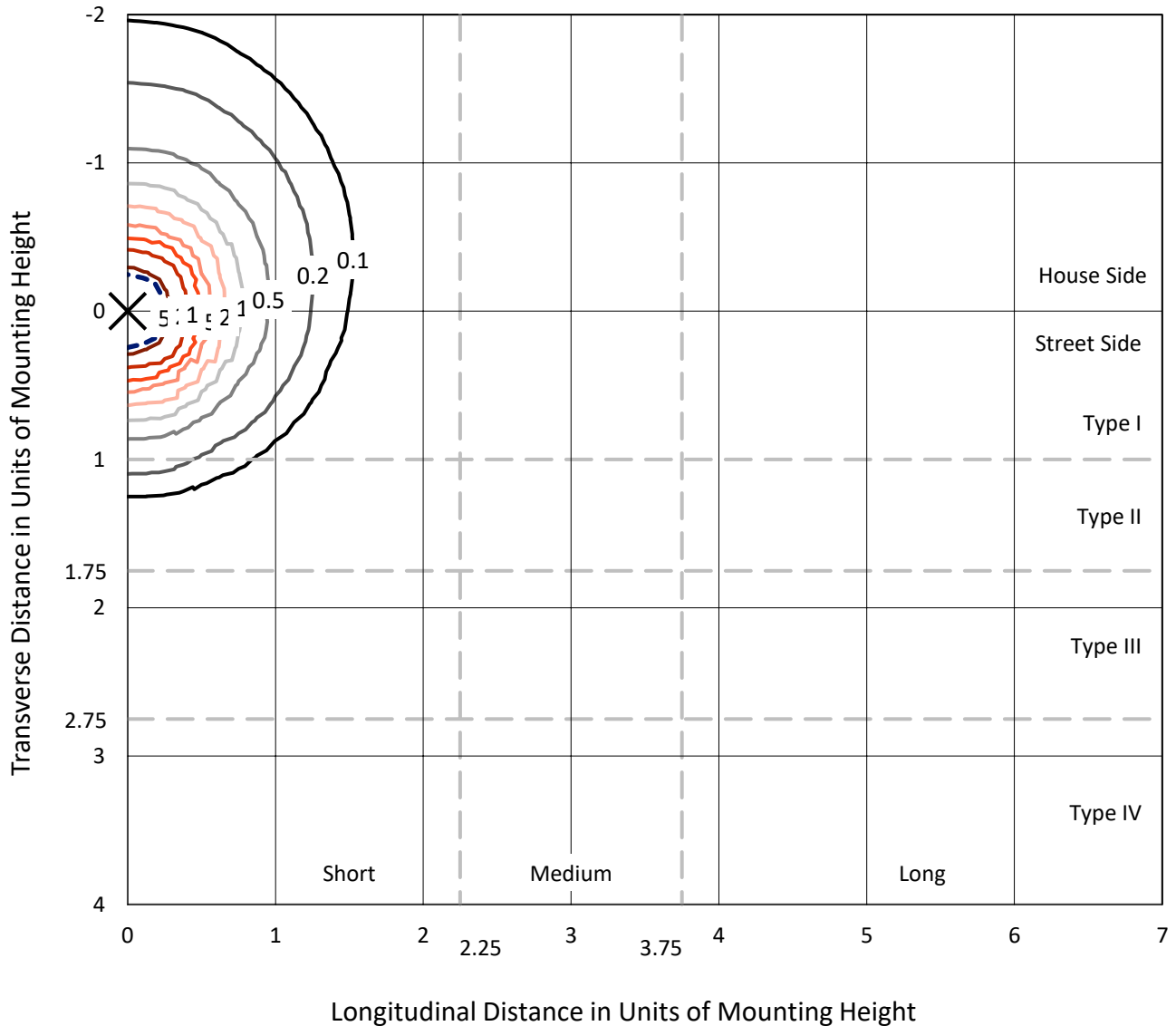
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

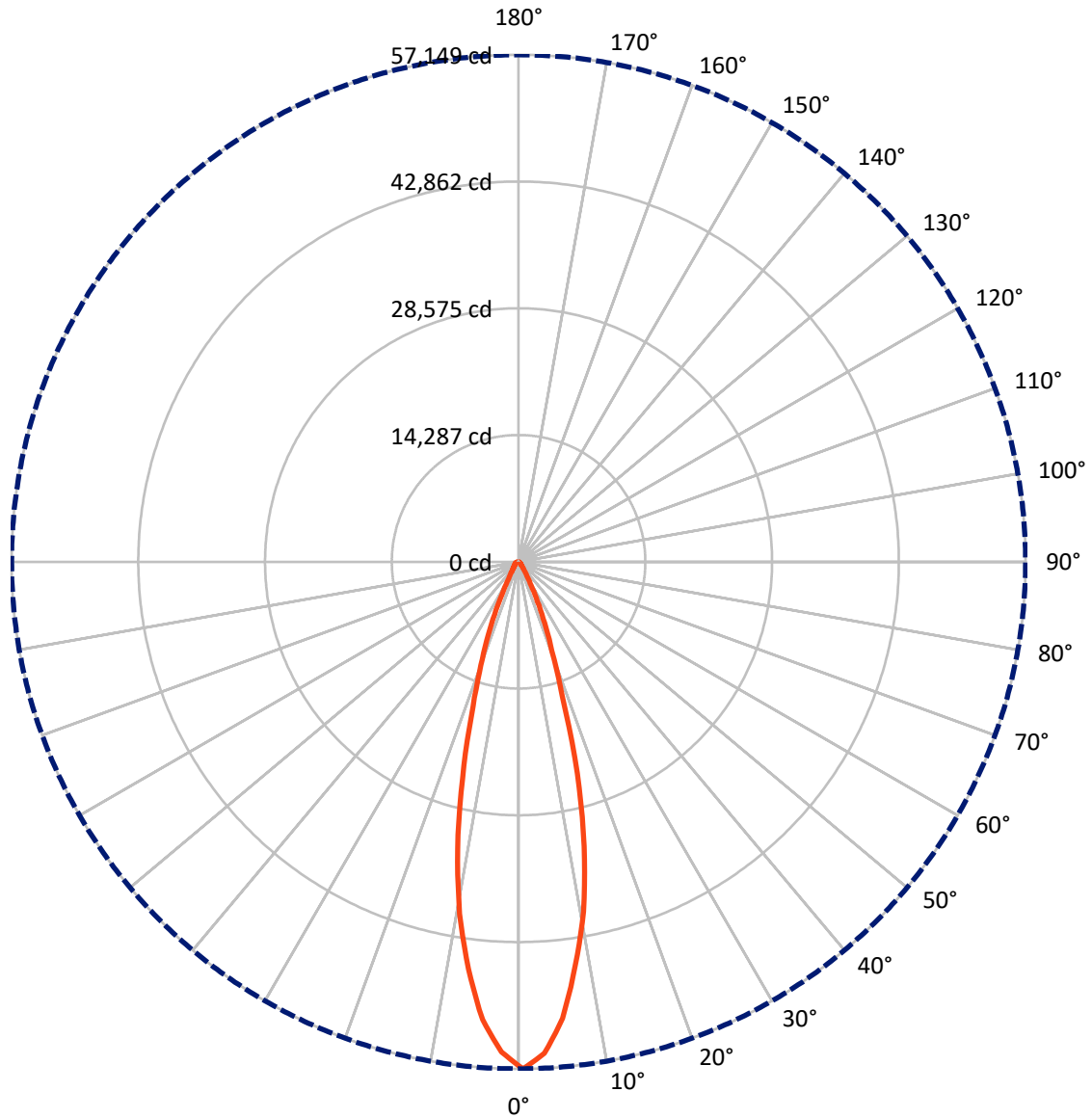
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 142.9 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	8551.8	0.0	8551.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	7667.3	0.0	7667.3
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	16219.1	0.0	16219.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4612.4	28.4
10°-20°	6985.5	43.1
20°-30°	2947.9	18.2
30°-40°	768.8	4.7
40°-50°	388.9	2.4
50°-60°	254.2	1.6
60°-70°	152.3	0.9
70°-80°	80.1	0.5
80°-90°	28.9	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°	16219.1	100.0
0°-180°	16219.1	100.0

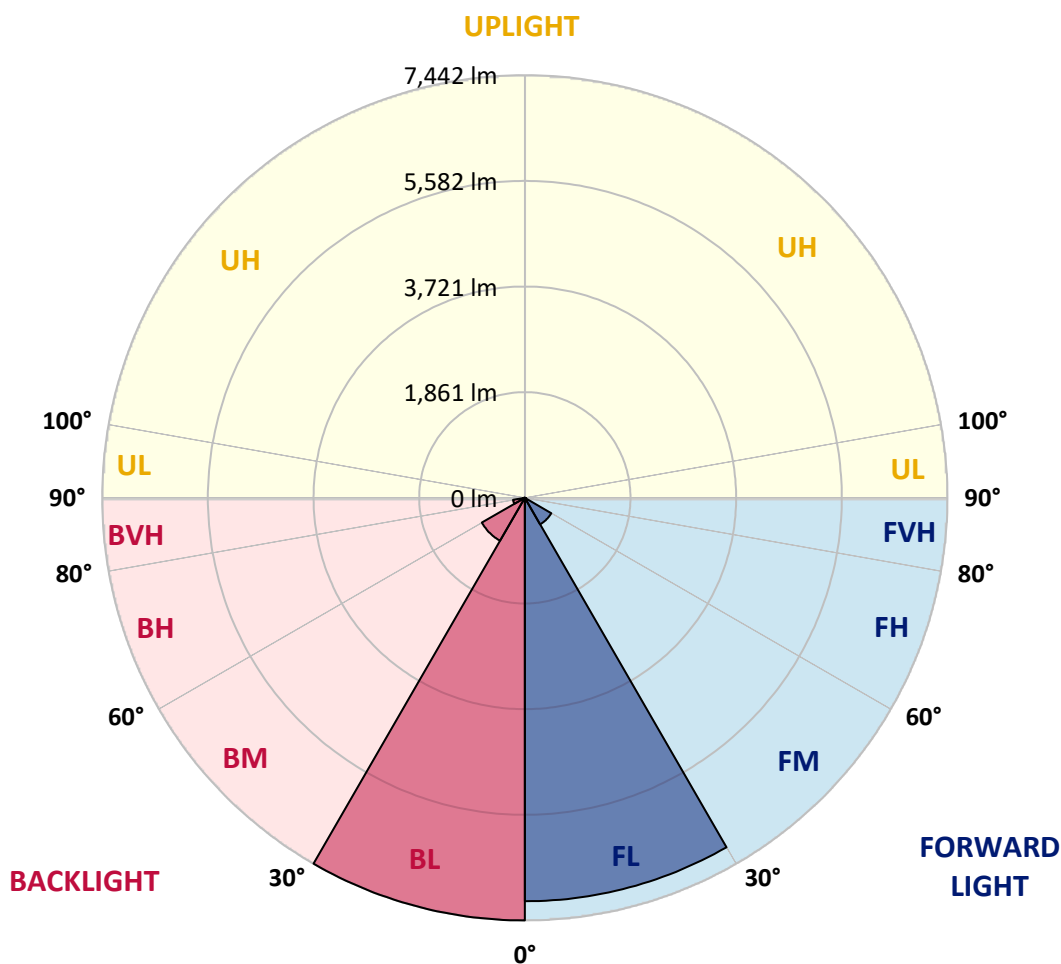


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7103.9	43.8			
FM (30°-60°)	538.0	3.3			
FH (60°-80°)	21.9	0.1			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	7442.0	45.9	B5		
BM (30°-60°)	873.9	5.4	B1/1000		
BH (60°-80°)	210.5	1.3	B1/500		G0/660
BVH (80°-90°)	25.4	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°	57149.2	57149.2	57149.2	57149.2	57149.2	57149.2	57149.2	57149.2	57149.2	57149.2
2.5°	55484.4	55515.3	55400.6	55648.3	55455.2	55972.5	55715.7	56116.4	55981.6	56205.7
5°	51695.8	51644.8	51612.0	51996.3	51885.2	52440.8	52085.6	51969.0	52329.7	52264.1
7.5°	45974.7	46109.5	46033.0	46133.2	46189.6	46823.5	47023.8	46867.2	46872.7	46963.7
10°	40109.7	39911.2	39628.8	39816.4	40213.5	40490.4	40379.3	40608.8	40557.8	40774.5
12.5°	32893.2	33049.8	32891.4	32723.8	33417.8	33341.3	33534.3	33660.0	33344.9	34046.1
15°	24776.9	24858.9	25051.9	25039.2	25572.9	25680.3	25654.8	25787.8	25541.9	25658.5
17.5°	15917.5	16194.3	16713.4	17591.4	18578.6	18693.3	18664.2	18554.9	18436.5	18305.4
20°	10691.8	10662.6	10850.3	11107.1	13150.7	13691.7	13675.3	13332.9	12837.4	12742.7
22.5°	7489.7	7544.4	7518.9	7773.9	8196.4	9688.2	9504.2	9156.3	8994.2	8888.6
25°	4927.0	4906.9	5034.4	5110.9	5473.4	5655.5	6300.3	6171.0	5921.5	5948.8
27.5°	3003.5	3029.0	3076.4	3142.0	3398.8	3340.5	3708.4	3757.6	3677.5	3591.9
30°	1843.3	1861.5	1899.8	1947.1	2036.4	1972.6	2074.6	2251.3	2222.1	2162.0
32.5°	1251.3	1253.1	1280.5	1298.7	1287.8	1227.6	1260.4	1428.0	1431.6	1426.2
35°	899.8	899.8	925.3	939.9	908.9	859.7	865.2	969.0	1014.5	1023.6
37.5°	621.1	622.9	666.6	710.4	675.8	663.0	641.1	710.4	783.2	794.1
40°	471.8	469.9	491.8	524.6	528.2	504.5	511.8	555.5	630.2	639.3
42.5°	382.5	384.3	395.3	391.6	393.4	424.4	435.3	455.4	524.6	541.0
45°	322.4	324.2	329.7	311.5	304.2	351.5	366.1	377.0	435.3	455.4
47.5°	265.9	269.6	275.0	255.0	251.4	282.3	307.8	318.8	369.8	391.6
50°	191.3	194.9	214.9	204.0	214.9	222.2	256.8	273.2	307.8	337.0
52.5°	138.4	142.1	147.5	149.4	176.7	180.3	205.8	231.3	247.7	280.5
55°	109.3	112.9	109.3	105.6	129.3	149.4	158.5	185.8	198.5	236.8
57.5°	61.9	65.6	71.0	82.0	85.6	114.8	123.9	147.5	158.5	194.9
60°	10.9	12.8	20.0	49.2	60.1	72.9	92.9	112.9	127.5	153.0
62.5°	1.8	1.8	3.6	10.9	34.6	51.0	67.4	80.1	92.9	116.6
65°	0.0	0.0	1.8	3.6	9.1	29.1	36.4	47.4	63.8	83.8
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	16.4	29.1	36.4	56.5
70°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	12.8	21.9	34.6
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	10.9	10.9	21.9
75°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	10.9	9.1	9.1
77.5°	0.0	0.0	1.8	3.6	7.3	10.9	12.8	10.9	7.3	7.3
80°	0.0	0.0	3.6	5.5	9.1	12.8	16.4	12.8	7.3	3.6
82.5°	0.0	0.0	3.6	7.3	9.1	14.6	20.0	16.4	7.3	3.6
85°	0.0	0.0	1.8	5.5	10.9	14.6	20.0	14.6	7.3	1.8
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	10.9	9.1	3.6	1.8
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°
57149.2	0°	57149.2	57149.2	57149.2	57149.2	57149.2	57149.2	57149.2	57149.2	57149.2
55781.3	2.5°	56101.8	56393.3	56453.4	56373.2	56489.8	56280.3	56120.0	55704.8	55455.2
52244.0	5°	52581.0	52537.3	52841.5	52941.7	52928.9	52768.6	52544.6	52293.2	52049.2
46787.0	7.5°	47078.5	47134.9	47411.8	47588.5	47499.2	47298.9	47144.0	46954.6	46790.7
40852.8	10°	41226.2	40838.3	41182.5	41182.5	41421.1	40854.7	40907.5	40430.3	40452.1
34033.4	12.5°	34150.0	34290.2	34346.7	34508.8	34230.1	33929.6	33561.6	33488.8	33261.1
25436.3	15°	25802.4	26203.1	25858.8	26447.1	26163.0	25849.7	25793.3	25228.6	25407.1
18449.3	17.5°	18358.2	18800.8	18939.2	19276.2	19017.5	18831.8	18596.8	18425.6	18412.8
12915.8	20°	13017.8	13462.2	13564.2	13968.5	13939.4	13881.1	13682.6	13465.8	13230.9
8792.0	22.5°	8925.0	9287.5	9626.3	10170.9	10161.8	9990.5	9970.5	9664.5	9670.0
5939.7	25°	6001.6	6265.7	6345.9	6903.2	6965.1	6946.9	6843.1	6559.0	6666.4
3628.3	27.5°	3631.9	3863.3	4134.6	4331.4	4517.1	4488.0	4384.2	4225.7	4156.5
2180.3	30°	2238.5	2342.4	2442.5	2679.3	2790.4	2848.7	2799.5	2652.0	2662.9
1435.3	32.5°	1466.3	1553.7	1626.5	1775.9	1834.2	1941.6	1921.6	1890.6	1854.2
1032.8	35°	1069.2	1132.9	1182.1	1251.3	1326.0	1417.1	1431.6	1418.9	1404.3
797.8	37.5°	816.0	881.6	938.0	967.2	1025.5	1096.5	1136.6	1134.8	1123.8
650.3	40°	663.0	712.2	763.2	801.4	841.5	894.3	943.5	949.0	949.0
546.4	42.5°	553.7	595.6	646.6	686.7	715.8	765.0	816.0	819.6	816.0
462.6	45°	473.6	510.0	559.2	606.5	630.2	666.6	715.8	726.8	719.5
397.1	47.5°	411.6	444.4	486.3	537.3	562.8	595.6	641.1	653.9	652.1
342.4	50°	353.4	391.6	433.5	475.4	508.2	539.1	582.9	597.4	592.0
291.4	52.5°	311.5	346.1	382.5	428.0	466.3	493.6	528.2	553.7	546.4
245.9	55°	260.5	302.4	340.6	378.9	426.2	455.4	488.1	519.1	511.8
207.6	57.5°	225.9	260.5	304.2	338.8	386.1	420.8	453.5	486.3	484.5
169.4	60°	189.4	225.9	267.8	304.2	347.9	386.1	418.9	455.4	459.0
127.5	62.5°	149.4	193.1	229.5	271.4	315.1	357.0	386.1	422.6	428.0
96.5	65°	112.9	158.5	198.5	238.6	282.3	327.9	353.4	384.3	389.8
71.0	67.5°	83.8	122.0	169.4	205.8	251.4	295.1	318.8	344.3	353.4
43.7	70°	63.8	92.9	142.1	176.7	224.0	258.6	284.1	306.0	313.3
29.1	72.5°	40.1	72.9	114.8	151.2	193.1	224.0	242.3	255.0	265.9
16.4	75°	27.3	56.5	92.9	129.3	160.3	184.0	200.4	211.3	220.4
7.3	77.5°	16.4	43.7	76.5	107.5	127.5	145.7	162.1	169.4	174.9
5.5	80°	9.1	32.8	63.8	87.4	100.2	112.9	125.7	134.8	138.4
3.6	82.5°	5.5	25.5	51.0	67.4	72.9	85.6	98.4	103.8	103.8
1.8	85°	3.6	18.2	34.6	49.2	52.8	61.9	65.6	69.2	72.9
1.8	87.5°	3.6	10.9	21.9	27.3	29.1	32.8	34.6	38.3	41.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
57149.2  
55271.3  
51775.9  
46235.2  
40239.0  
33053.5  
25228.6  
18074.0  
13128.9  
9564.3  
6497.0  
4096.4  
2615.6  
1841.5  
1398.9  
1118.4  
938.0  
812.4  
719.5  
648.4  
588.3  
544.6  
515.5  
486.3  
460.8  
431.7  
395.3  
357.0  
316.9  
264.1  
218.6  
173.0  
134.8  
102.0  
71.0  
40.1  
0.0

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