

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: P637391

Luminaire Tested: **IFLD-M-SA4B-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637391
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22028.2 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

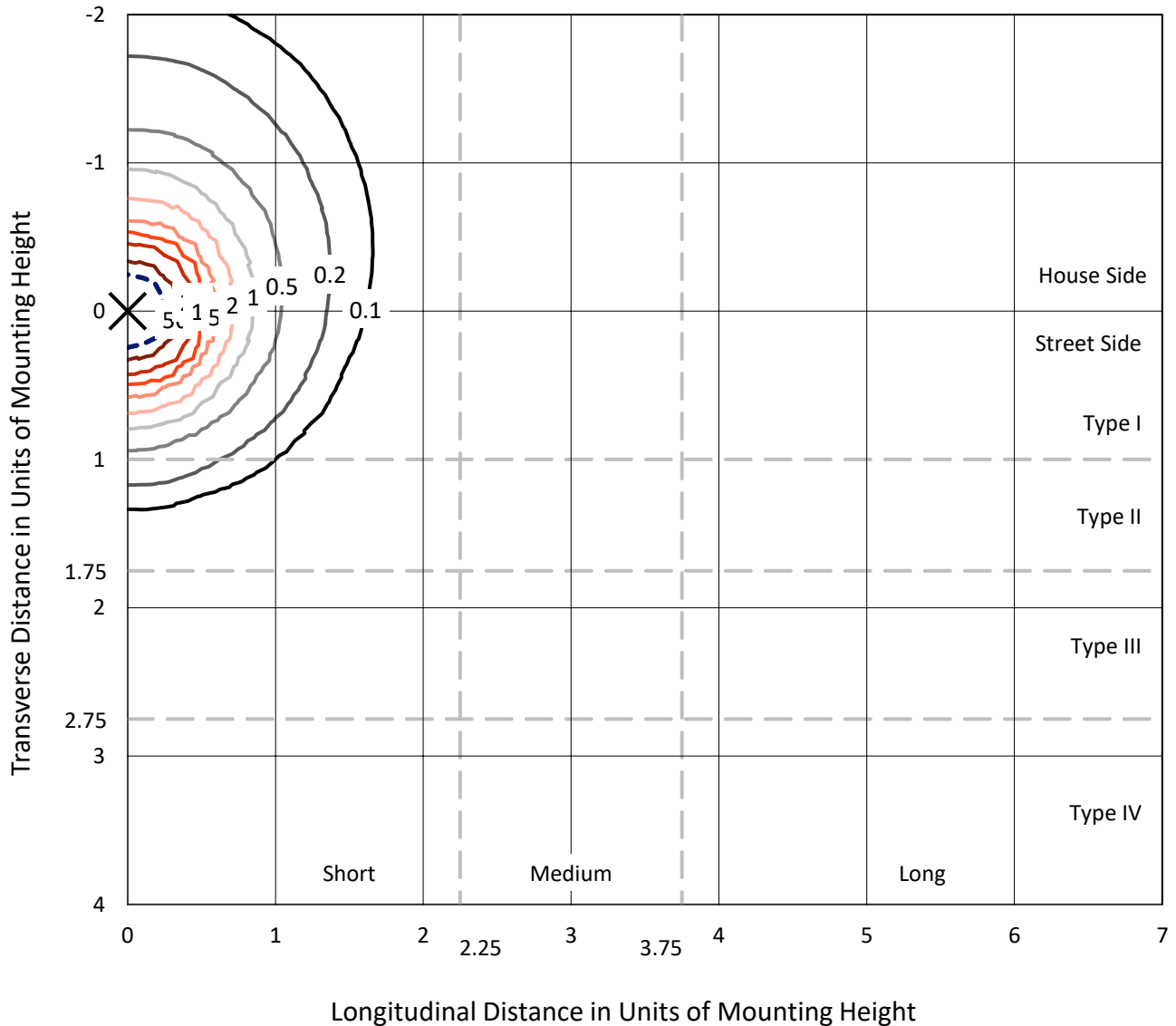
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

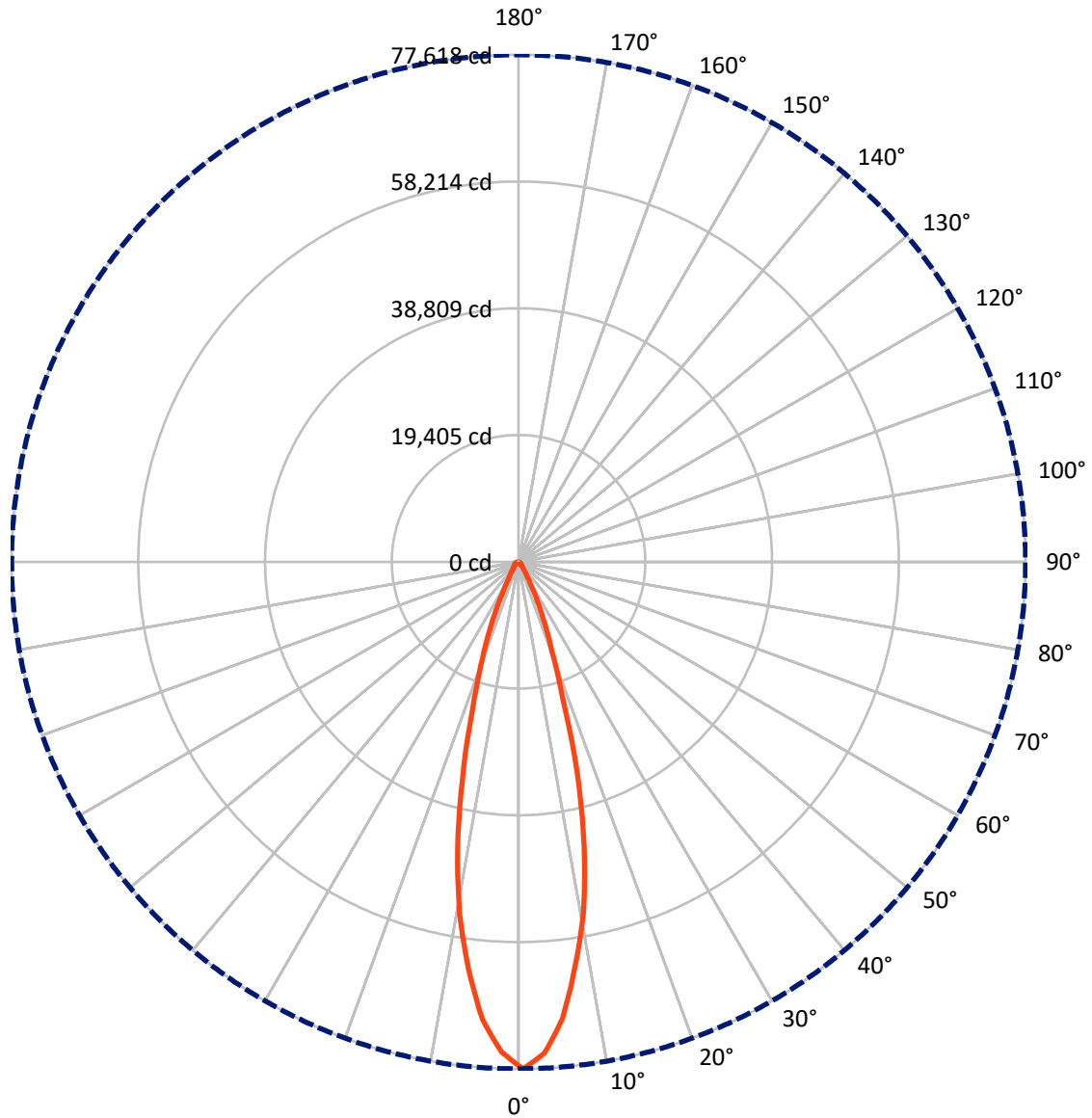
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 194 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	11614.8	0.0	11614.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10413.5	0.0	10413.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	22028.2	0.0	22028.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6264.5	28.4
10°-20°	9487.5	43.1
20°-30°	4003.8	18.2
30°-40°	1044.2	4.7
40°-50°	528.2	2.4
50°-60°	345.2	1.6
60°-70°	206.8	0.9
70°-80°	108.8	0.5
80°-90°	39.3	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°	22028.2	100.0
0°-180°	22028.2	100.0

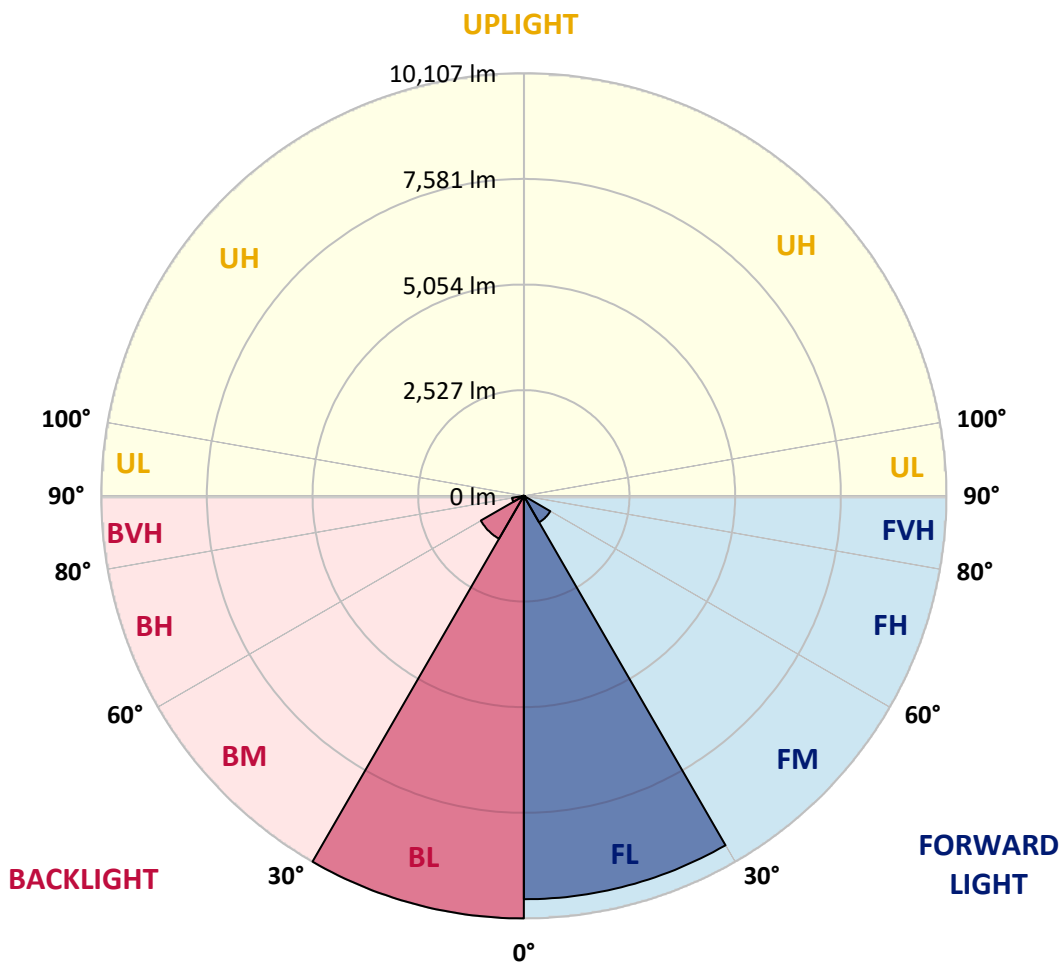


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9648.2	43.8			
FM (30°-60°)	730.7	3.3			
FH (60°-80°)	29.8	0.1			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	10107.5	45.9	B5		
BM (30°-60°)	1186.9	5.4	B2/2500		
BH (60°-80°)	285.9	1.3	B1/500		G0/660
BVH (80°-90°)	34.5	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°	77618.0	77618.0	77618.0	77618.0	77618.0	77618.0	77618.0	77618.0	77618.0	77618.0
2.5°	75357.0	75399.0	75243.2	75579.6	75317.4	76020.0	75671.2	76215.4	76032.3	76336.6
5°	70211.5	70142.2	70097.7	70619.7	70468.8	71223.3	70740.9	70582.6	71072.4	70983.3
7.5°	62441.3	62624.3	62520.4	62656.5	62733.2	63594.1	63866.2	63653.4	63660.9	63784.5
10°	54475.6	54206.0	53822.5	54077.3	54616.6	54992.6	54841.7	55153.4	55084.2	55378.6
12.5°	44674.4	44887.2	44671.9	44444.3	45386.9	45283.0	45545.2	45715.9	45287.9	46240.3
15°	33651.1	33762.5	34024.7	34007.4	34732.2	34878.2	34843.5	35024.1	34690.1	34848.5
17.5°	21618.6	21994.6	22699.6	23892.0	25232.8	25388.6	25349.1	25200.6	25039.8	24861.7
20°	14521.2	14481.6	14736.4	15085.3	17860.9	18595.6	18573.3	18108.2	17435.4	17306.7
22.5°	10172.3	10246.5	10211.9	10558.2	11132.1	13158.2	12908.3	12435.8	12215.6	12072.2
25°	6691.6	6664.4	6837.6	6941.5	7433.8	7681.2	8556.9	8381.2	8042.3	8079.4
27.5°	4079.3	4113.9	4178.3	4267.3	4616.1	4537.0	5036.7	5103.5	4994.6	4878.3
30°	2503.5	2528.2	2580.2	2644.5	2765.7	2679.1	2817.7	3057.6	3018.0	2936.4
32.5°	1699.5	1702.0	1739.1	1763.8	1749.0	1667.3	1711.9	1939.5	1944.4	1937.0
35°	1222.1	1222.1	1256.7	1276.5	1234.4	1167.6	1175.1	1316.1	1377.9	1390.3
37.5°	843.6	846.0	905.4	964.8	917.8	900.5	870.8	964.8	1063.7	1078.6
40°	640.7	638.2	667.9	712.5	717.4	685.2	695.1	754.5	855.9	868.3
42.5°	519.5	522.0	536.8	531.9	534.3	576.4	591.2	618.5	712.5	734.7
45°	437.9	440.3	447.8	423.0	413.1	477.4	497.2	512.1	591.2	618.5
47.5°	361.2	366.1	373.5	346.3	341.4	383.4	418.1	432.9	502.2	531.9
50°	259.7	264.7	291.9	277.1	291.9	301.8	348.8	371.1	418.1	457.7
52.5°	188.0	193.0	200.4	202.9	240.0	244.9	279.5	314.2	336.4	381.0
55°	148.4	153.4	148.4	143.5	175.6	202.9	215.2	252.3	269.6	321.6
57.5°	84.1	89.1	96.5	111.3	116.3	155.8	168.2	200.4	215.2	264.7
60°	14.8	17.3	27.2	66.8	81.6	99.0	126.2	153.4	173.2	207.8
62.5°	2.5	2.5	4.9	14.8	47.0	69.3	91.5	108.8	126.2	158.3
65°	0.0	0.0	2.5	4.9	12.4	39.6	49.5	64.3	86.6	113.8
67.5°	0.0	0.0	2.5	4.9	7.4	14.8	22.3	39.6	49.5	76.7
70°	0.0	0.0	2.5	4.9	7.4	9.9	12.4	17.3	29.7	47.0
72.5°	0.0	0.0	2.5	4.9	7.4	9.9	12.4	14.8	14.8	29.7
75°	0.0	0.0	2.5	4.9	7.4	12.4	14.8	14.8	12.4	12.4
77.5°	0.0	0.0	2.5	4.9	9.9	14.8	17.3	14.8	9.9	9.9
80°	0.0	0.0	4.9	7.4	12.4	17.3	22.3	17.3	9.9	4.9
82.5°	0.0	0.0	4.9	9.9	12.4	19.8	27.2	22.3	9.9	4.9
85°	0.0	0.0	2.5	7.4	14.8	19.8	27.2	19.8	9.9	2.5
87.5°	0.0	0.0	2.5	2.5	4.9	7.4	14.8	12.4	4.9	2.5
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°
77618.0	0°	77618.0	77618.0	77618.0	77618.0	77618.0	77618.0	77618.0	77618.0	77618.0
75760.2	2.5°	76195.6	76591.4	76673.1	76564.2	76722.5	76438.0	76220.3	75656.3	75317.4
70956.1	5°	71413.7	71354.4	71767.5	71903.6	71886.2	71668.6	71364.3	71022.9	70691.4
63544.6	7.5°	63940.4	64017.1	64393.1	64633.1	64511.8	64239.7	64029.4	63772.2	63549.5
55484.9	10°	55992.1	55465.1	55932.7	55932.7	56256.8	55487.4	55559.1	54911.0	54940.7
46223.0	12.5°	46381.3	46571.8	46648.5	46868.7	46490.2	46082.0	45582.3	45483.3	45174.1
34546.7	15°	35043.9	35588.1	35120.6	35919.6	35533.7	35108.2	35031.5	34264.6	34507.1
25057.2	17.5°	24933.5	25534.6	25722.6	26180.3	25829.0	25576.7	25257.5	25025.0	25007.7
17541.7	20°	17680.3	18283.9	18422.4	18971.6	18932.0	18852.9	18583.2	18288.8	17969.7
11941.0	22.5°	12121.6	12613.9	13074.0	13813.7	13801.3	13568.8	13541.6	13126.0	13133.4
8067.1	25°	8151.2	8509.9	8618.7	9375.7	9459.8	9435.1	9294.1	8908.2	9054.1
4927.8	27.5°	4932.8	5246.9	5615.5	5882.7	6135.0	6095.5	5954.4	5739.2	5645.2
2961.1	30°	3040.3	3181.3	3317.4	3639.0	3789.9	3869.0	3802.2	3601.9	3616.7
1949.4	32.5°	1991.4	2110.2	2209.1	2412.0	2491.1	2637.1	2609.9	2567.8	2518.3
1402.6	35°	1452.1	1538.7	1605.5	1699.5	1800.9	1924.6	1944.4	1927.1	1907.3
1083.5	37.5°	1108.3	1197.3	1274.0	1313.6	1392.8	1489.2	1543.7	1541.2	1526.3
883.1	40°	900.5	967.3	1036.5	1088.5	1142.9	1214.6	1281.4	1288.9	1288.9
742.1	42.5°	752.0	808.9	878.2	932.6	972.2	1039.0	1108.3	1113.2	1108.3
628.3	45°	643.2	692.7	759.5	823.8	855.9	905.4	972.2	987.0	977.2
539.3	47.5°	559.1	603.6	660.5	729.8	764.4	808.9	870.8	888.1	885.6
465.1	50°	479.9	531.9	588.8	645.7	690.2	732.2	791.6	811.4	804.0
395.8	52.5°	423.0	470.0	519.5	581.3	633.3	670.4	717.4	752.0	742.1
334.0	55°	353.8	410.7	462.6	514.6	578.9	618.5	663.0	705.0	695.1
282.0	57.5°	306.8	353.8	413.1	460.1	524.4	571.4	616.0	660.5	658.0
230.1	60°	257.3	306.8	363.6	413.1	472.5	524.4	569.0	618.5	623.4
173.2	62.5°	202.9	262.2	311.7	368.6	428.0	484.9	524.4	573.9	581.3
131.1	65°	153.4	215.2	269.6	324.1	383.4	445.3	479.9	522.0	529.4
96.5	67.5°	113.8	165.7	230.1	279.5	341.4	400.8	432.9	467.5	479.9
59.4	70°	86.6	126.2	193.0	240.0	304.3	351.3	385.9	415.6	425.5
39.6	72.5°	54.4	99.0	155.8	205.3	262.2	304.3	329.0	346.3	361.2
22.3	75°	37.1	76.7	126.2	175.6	217.7	249.9	272.1	287.0	299.3
9.9	77.5°	22.3	59.4	103.9	146.0	173.2	197.9	220.2	230.1	237.5
7.4	80°	12.4	44.5	86.6	118.7	136.1	153.4	170.7	183.1	188.0
4.9	82.5°	7.4	34.6	69.3	91.5	99.0	116.3	133.6	141.0	141.0
2.5	85°	4.9	24.7	47.0	66.8	71.7	84.1	89.1	94.0	99.0
2.5	87.5°	4.9	14.8	29.7	37.1	39.6	44.5	47.0	51.9	56.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
77618.0
75067.6
70320.3
62795.0
54651.3
44892.1
34264.6
24547.5
17831.2
12989.9
8824.1
5563.6
3552.4
2501.0
1899.9
1518.9
1274.0
1103.3
977.2
880.7
799.0
739.7
700.1
660.5
625.9
586.3
536.8
484.9
430.4
358.7
296.9
235.0
183.1
138.5
96.5
54.4
0.0

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