

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: P637549

Luminaire Tested: **IFLD-S-SA2A-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637549
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7252.6 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 63.8
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



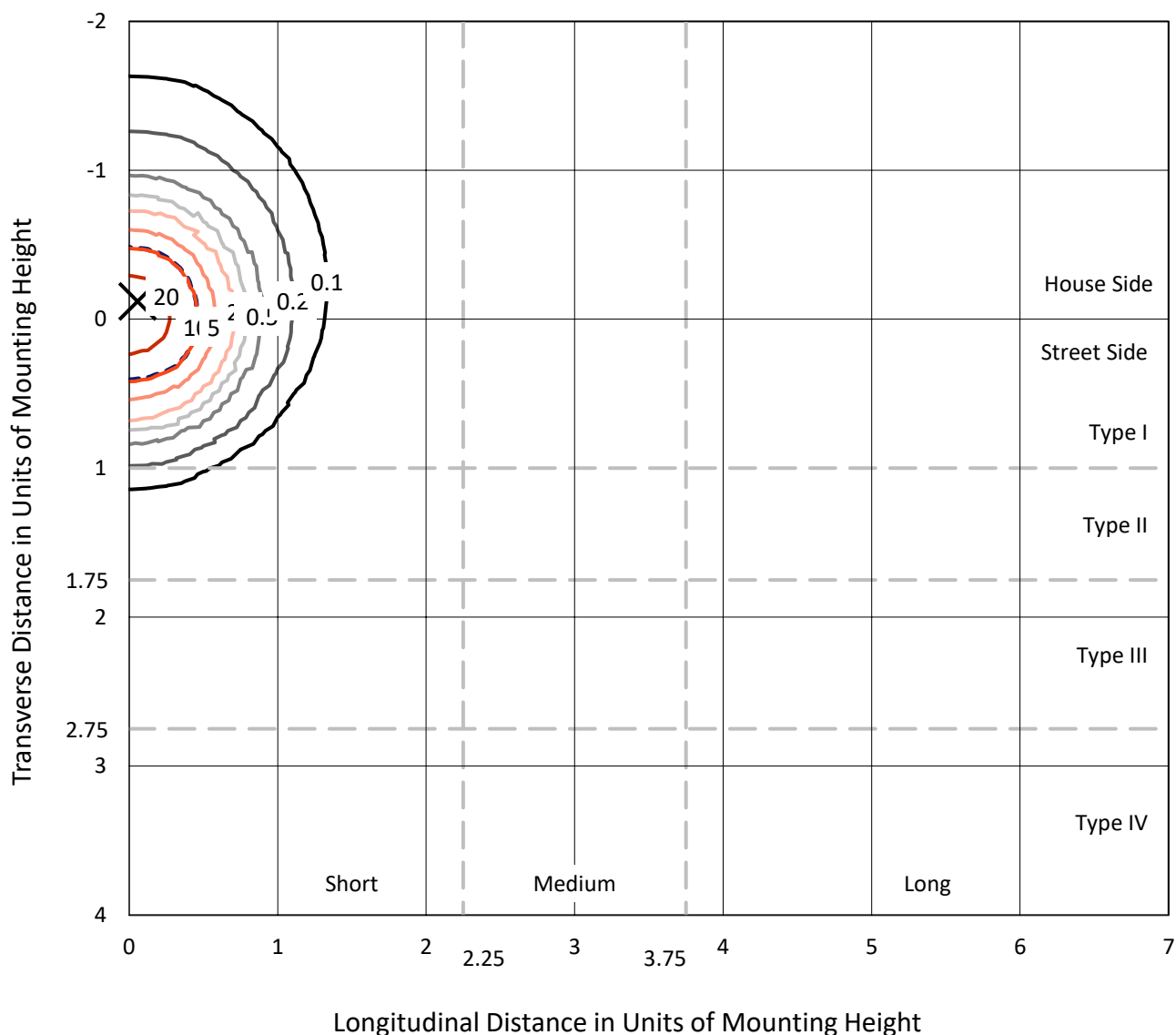
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

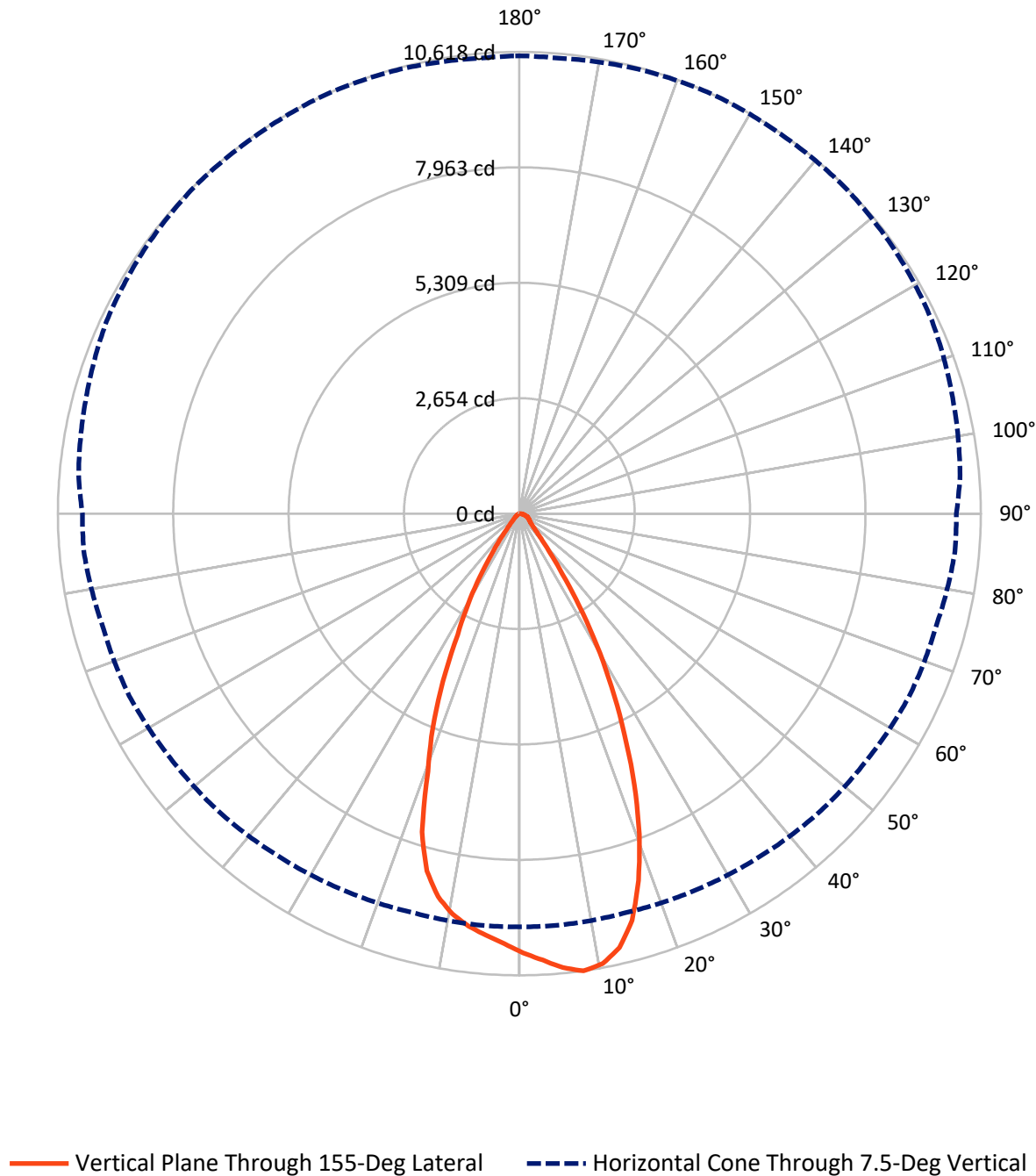


Based on 20 foot mounting height. Maximum calculated value = 25.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4003.7	0.0	4003.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3248.9	0.0	3248.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	7252.6	0.0	7252.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	963.4	13.3
10°-20°	2498.2	34.4
20°-30°	2289.0	31.6
30°-40°	924.8	12.8
40°-50°	271.3	3.7
50°-60°	151.7	2.1
60°-70°	92.1	1.3
70°-80°	46.8	0.6
80°-90°	15.3	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°	7252.6	100.0
0°-180°	7252.6	100.0

Coefficient of Utilization



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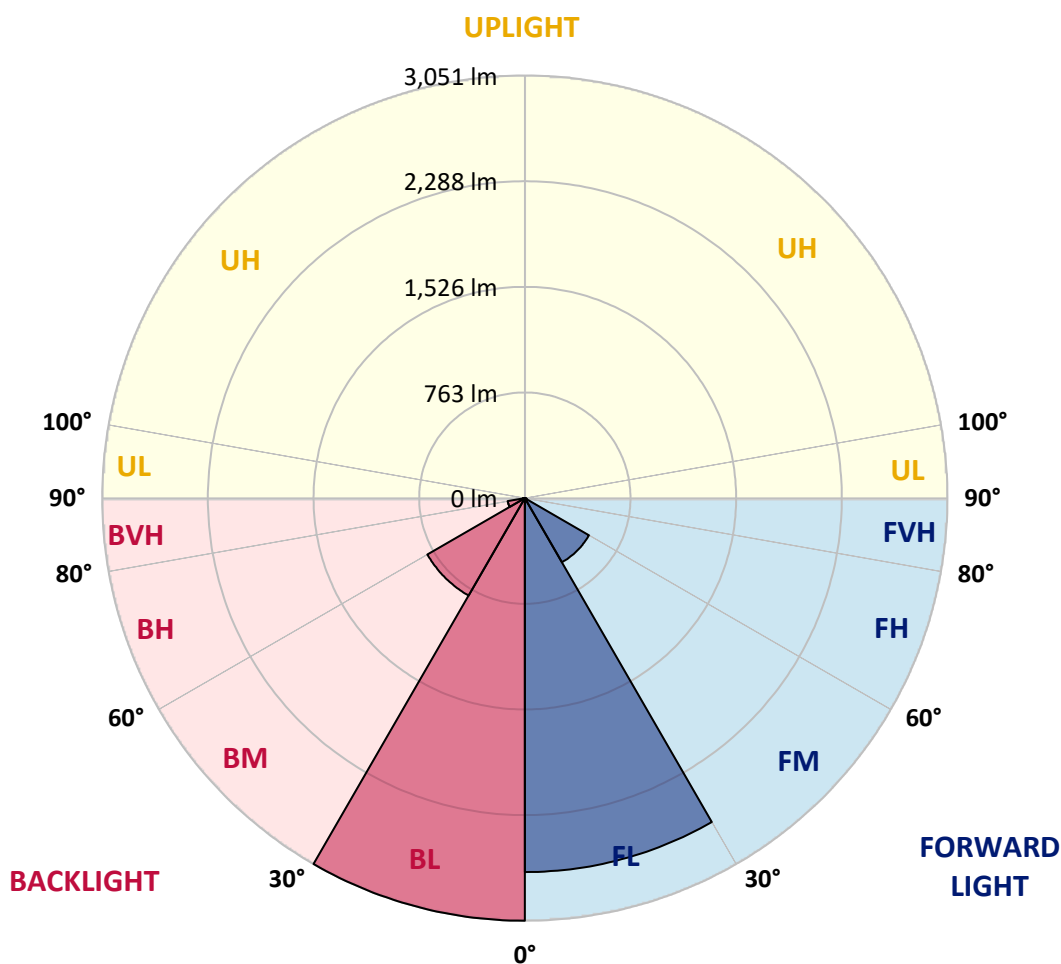
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2699.6	37.2			
FM	(30°-60°)	535.0	7.4			
FH	(60°-80°)	13.0	0.2			G0/660
FVH	(80°-90°)	1.3	0.0			G0/10
BL	(0°-30°)	3051.0	42.1	B4/5000		
BM	(30°-60°)	812.7	11.2	B1/1000		
BH	(60°-80°)	126.0	1.7	B1/500		G1/500
BVH	(80°-90°)	14.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10103.4	10103.4	10103.4	10103.4	10103.4	10103.4	10103.4	10103.4	10103.4	10103.4
2.5°	9884.3	9917.7	9850.8	9895.1	9929.4	10011.4	10018.1	10046.5	10056.6	10131.0
5°	9696.9	9722.9	9668.5	9727.9	9776.4	9849.2	9905.2	9983.8	10027.3	10115.1
7.5°	9502.1	9507.9	9497.1	9559.8	9632.5	9732.9	9802.3	9905.2	9931.9	10057.4
10°	9266.2	9223.6	9244.5	9336.5	9445.2	9599.1	9646.8	9749.6	9797.3	9925.3
12.5°	8889.9	8911.7	8885.7	9002.8	9093.1	9267.9	9318.1	9421.8	9513.0	9625.9
15°	8359.7	8347.1	8399.8	8491.0	8588.8	8727.7	8808.8	8921.7	8991.1	9108.2
17.5°	7168.0	7210.6	7428.1	7656.4	7857.1	8019.3	8116.3	8210.0	8260.2	8387.3
20°	6190.3	6136.8	6166.1	6294.9	6866.1	7114.4	7216.5	7239.0	7260.0	7360.3
22.5°	5097.3	5079.7	5177.6	5322.2	5457.7	6030.6	6169.4	6116.7	6160.2	6254.7
25°	3785.1	3873.8	3960.7	4238.4	4414.0	4695.0	4958.4	4981.9	4997.8	5057.1
27.5°	3080.9	3050.0	3048.3	3126.1	3385.4	3619.5	3843.7	3895.5	3886.3	3943.2
30°	2421.9	2411.9	2376.8	2395.2	2369.2	2577.5	2682.9	2896.1	2884.4	2886.1
32.5°	1747.0	1709.4	1695.2	1722.8	1696.0	1676.8	1768.8	2009.6	2005.5	2022.2
35°	1057.1	1052.1	1063.8	1088.0	1034.5	1032.8	1052.1	1278.7	1306.3	1333.1
37.5°	583.7	578.7	587.9	677.4	659.8	644.0	649.0	768.6	848.0	868.1
40°	384.7	383.9	390.6	406.4	436.6	430.7	433.2	486.7	562.0	579.6
42.5°	257.6	258.4	262.6	281.0	285.2	315.3	310.3	322.8	393.1	408.1
45°	205.7	204.9	207.4	199.0	204.1	235.0	238.3	239.2	299.4	308.6
47.5°	162.2	162.2	164.8	153.9	151.4	170.6	188.2	190.7	239.2	251.7
50°	113.7	113.7	126.3	121.3	127.1	133.0	152.2	154.7	195.7	209.1
52.5°	83.6	85.3	87.0	87.8	107.0	106.2	122.9	134.6	148.0	171.4
55°	63.6	65.2	61.1	65.2	79.4	88.6	92.0	108.7	117.9	143.8
57.5°	41.8	46.0	42.7	50.2	53.5	68.6	73.6	89.5	95.3	117.9
60°	5.9	6.7	10.9	35.1	37.6	45.2	56.9	71.1	76.9	96.2
62.5°	0.8	0.8	2.5	5.9	25.1	30.1	42.7	49.3	56.9	71.9
65°	0.0	0.0	0.8	1.7	5.0	17.6	21.7	26.8	39.3	51.9
67.5°	0.0	0.0	0.8	1.7	2.5	5.9	9.2	17.6	22.6	36.0
70°	0.0	0.0	0.8	1.7	2.5	3.3	5.0	6.7	13.4	20.9
72.5°	0.0	0.0	0.8	1.7	2.5	3.3	4.2	5.0	5.9	13.4
75°	0.0	0.0	0.8	1.7	2.5	4.2	5.0	5.0	5.0	5.9
77.5°	0.0	0.0	0.8	1.7	3.3	5.0	5.9	5.0	4.2	4.2
80°	0.0	0.0	0.8	2.5	4.2	5.9	6.7	5.0	3.3	2.5
82.5°	0.0	0.0	0.8	2.5	4.2	5.9	6.7	5.9	3.3	2.5
85°	0.0	0.0	0.8	2.5	3.3	4.2	6.7	5.9	3.3	1.7
87.5°	0.0	0.0	0.0	0.8	0.8	1.7	3.3	2.5	1.7	0.8
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°
10103.4	0°	10103.4	10103.4	10103.4	10103.4	10103.4	10103.4	10103.4	10103.4	10103.4
10129.3	2.5°	10204.6	10242.2	10308.3	10326.7	10383.5	10318.3	10282.4	10285.7	10207.9
10104.2	5°	10204.6	10290.7	10406.1	10461.3	10503.1	10499.8	10490.6	10467.2	10410.3
10054.0	7.5°	10177.8	10318.3	10477.2	10550.8	10601.0	10596.8	10617.7	10580.1	10510.7
9964.6	10°	10091.7	10213.8	10409.5	10469.7	10550.8	10552.5	10526.6	10534.1	10410.3
9637.6	12.5°	9820.7	9916.1	10087.5	10156.1	10254.8	10270.6	10242.2	10231.3	10114.3
9101.5	15°	9296.4	9351.5	9523.8	9592.4	9690.3	9676.9	9705.3	9693.6	9590.7
8377.3	17.5°	8529.5	8547.0	8727.7	8785.4	8877.4	8913.3	8870.7	8925.0	8836.4
7377.9	20°	7429.7	7524.2	7727.4	7816.1	7869.6	7934.0	7878.0	7939.0	7835.3
6165.2	22.5°	6314.1	6370.1	6554.1	6682.1	6781.6	6794.1	6773.2	6815.9	6676.2
5096.4	25°	5095.6	5188.4	5333.9	5501.2	5599.1	5659.3	5604.9	5632.5	5609.9
3952.4	27.5°	4019.3	4102.1	4211.6	4336.2	4483.4	4562.0	4518.5	4565.4	4455.0
2947.1	30°	2949.6	2991.5	3115.2	3247.4	3408.8	3504.1	3508.3	3556.0	3490.7
2064.8	32.5°	2079.9	2116.7	2192.8	2280.6	2434.5	2540.7	2524.0	2530.7	2490.5
1345.6	35°	1352.3	1401.6	1456.0	1497.8	1590.6	1707.7	1698.5	1690.2	1662.6
884.8	37.5°	904.0	923.3	953.4	991.0	1051.2	1124.8	1149.1	1119.0	1107.3
597.1	40°	611.3	644.8	664.9	693.3	721.7	783.6	800.3	794.5	782.8
418.2	42.5°	434.0	460.0	485.1	512.7	527.7	566.2	598.8	589.6	584.6
317.8	45°	329.5	352.9	382.2	403.1	418.2	440.7	471.7	475.0	467.5
255.1	47.5°	264.3	285.2	308.6	334.5	352.1	366.3	393.1	403.1	398.1
214.9	50°	224.1	240.0	262.6	288.5	307.8	320.3	343.7	354.6	351.2
179.8	52.5°	190.7	209.9	230.8	252.6	276.0	288.5	310.3	326.2	323.6
148.9	55°	158.1	183.2	204.9	226.6	253.4	265.9	285.2	306.1	301.9
126.3	57.5°	138.0	158.9	181.5	202.4	230.8	247.5	265.1	286.9	286.0
103.7	60°	115.4	136.3	161.4	179.0	209.1	232.5	248.4	271.0	272.6
78.6	62.5°	92.0	117.9	137.2	161.4	189.0	216.6	231.7	254.2	262.6
60.2	65°	68.6	97.0	118.8	143.0	168.9	199.9	213.3	235.8	244.2
43.5	67.5°	51.0	72.8	100.4	121.3	150.5	177.3	193.2	214.1	219.9
25.9	70°	38.5	56.0	83.6	102.0	132.1	153.9	169.8	185.7	193.2
17.6	72.5°	22.6	41.8	66.1	87.8	113.7	132.1	143.8	156.4	161.4
8.4	75°	15.9	31.8	51.9	72.8	92.0	107.0	117.9	128.8	133.8
4.2	77.5°	8.4	23.4	41.0	58.5	71.9	84.5	95.3	103.7	107.0
3.3	80°	5.0	16.7	33.5	46.0	55.2	66.1	76.9	82.8	82.0
2.5	82.5°	3.3	13.4	24.3	33.5	40.1	48.5	56.0	60.2	60.2
1.7	85°	2.5	9.2	16.7	25.9	26.8	33.5	35.1	39.3	40.1
1.7	87.5°	1.7	5.9	9.2	15.1	14.2	17.6	18.4	20.9	22.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
10103.4
10145.2
10428.7
10526.6
10374.3
10087.5
9623.3
8814.6
7827.0
6657.0
5595.7
4483.4
3502.4
2513.1
1638.3
1104.8
784.5
580.4
466.7
395.6
350.4
322.0
301.9
285.2
272.6
261.8
243.4
219.9
191.5
159.7
132.1
106.2
81.1
59.4
39.3
21.7
0.0

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