

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: P637521

Luminaire Tested: **IFLD-S-SA2B-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637521
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7900.2 lumens
Efficiency: N/A
Efficacy: 95.9 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): 82.4
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



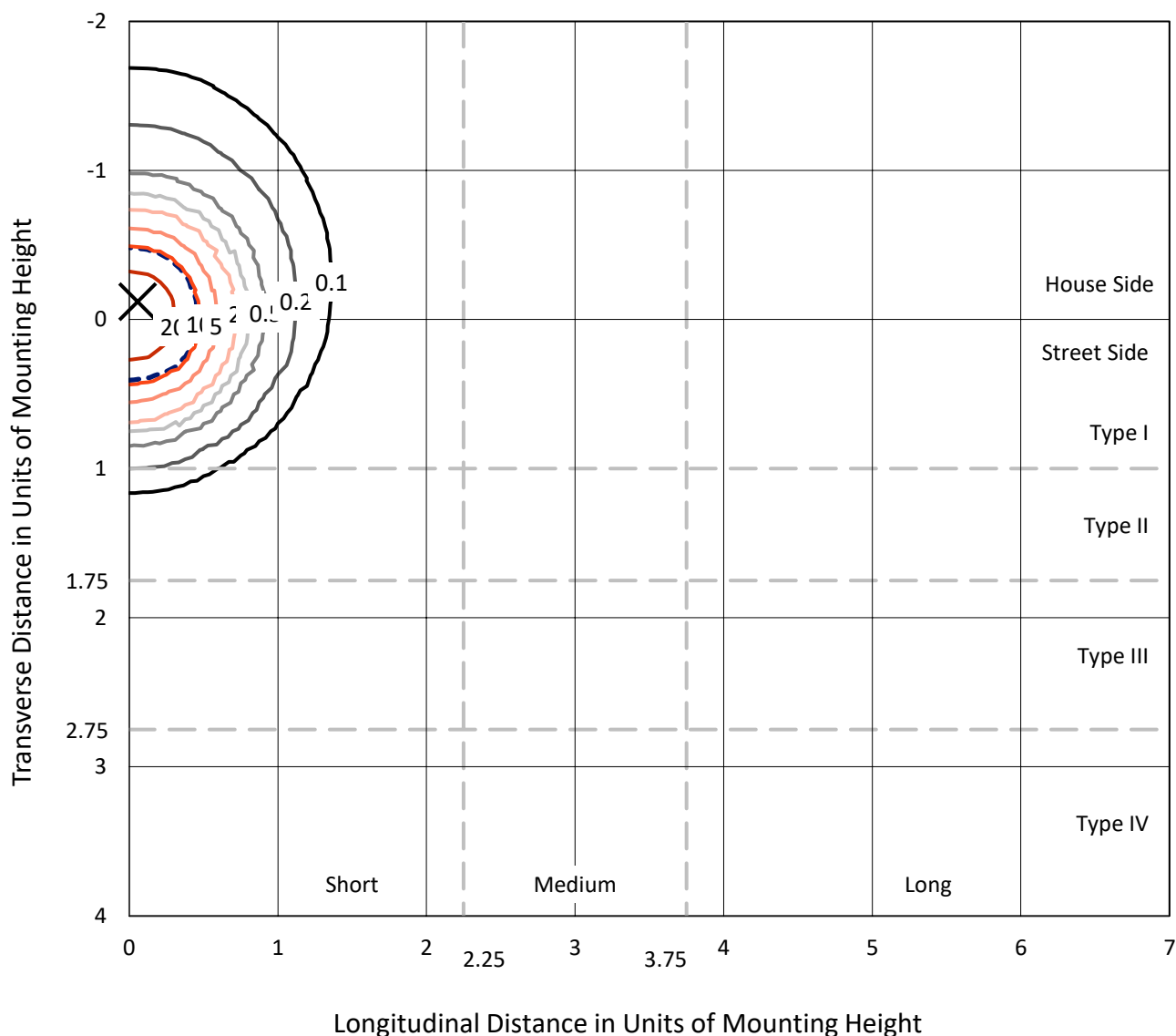
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



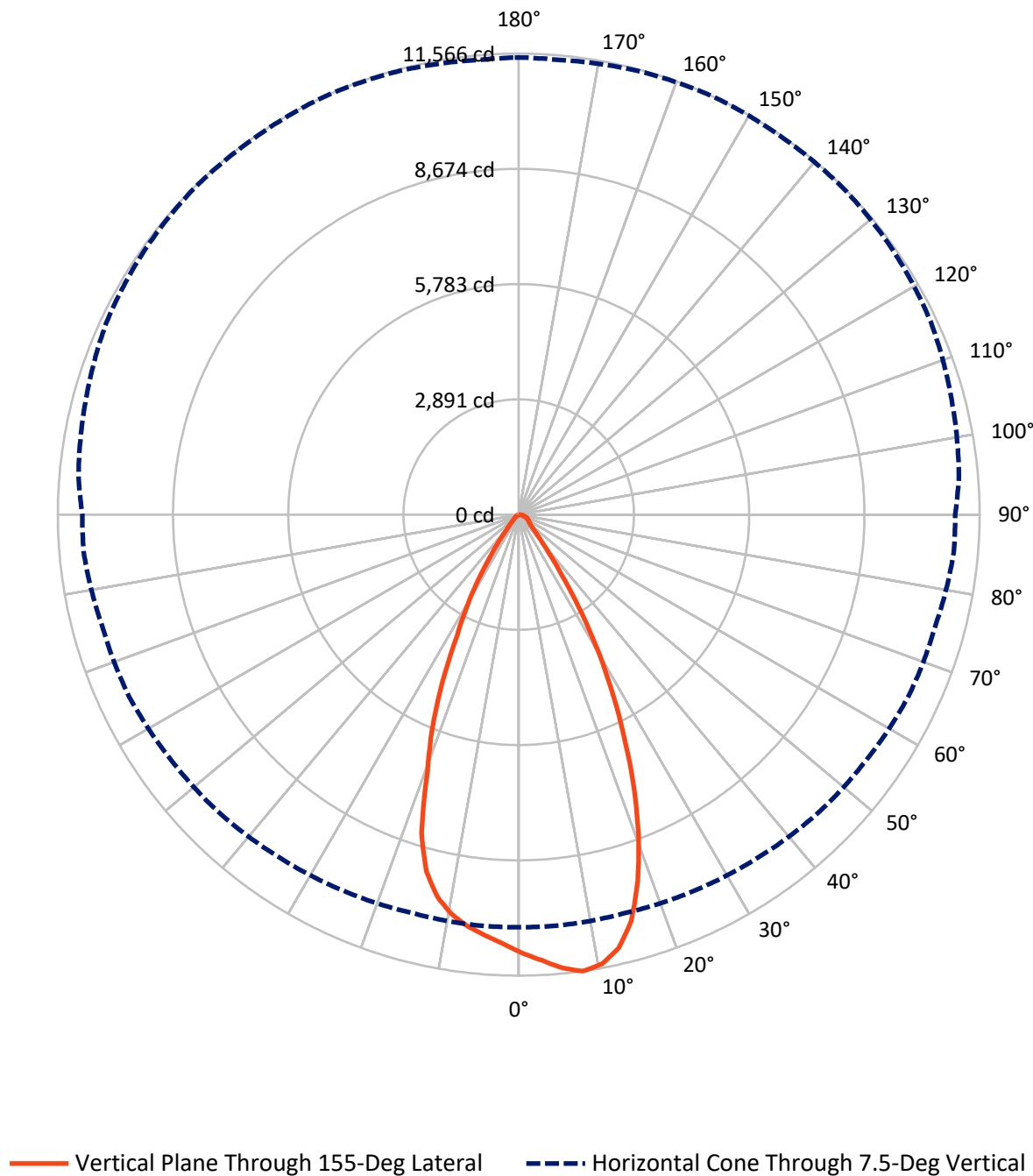
Based on 20 foot mounting height. Maximum calculated value = 28 fc

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	4361.2	0.0	4361.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3539.0	0.0	3539.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	7900.2	0.0	7900.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.5	13.3
10°-20°	2721.2	34.4
20°-30°	2493.4	31.6
30°-40°	1007.3	12.8
40°-50°	295.5	3.7
50°-60°	165.2	2.1
60°-70°	100.3	1.3
70°-80°	51.0	0.6
80°-90°	16.7	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°	7900.2	100.0
0°-180°	7900.2	100.0

Coefficient of Utilization



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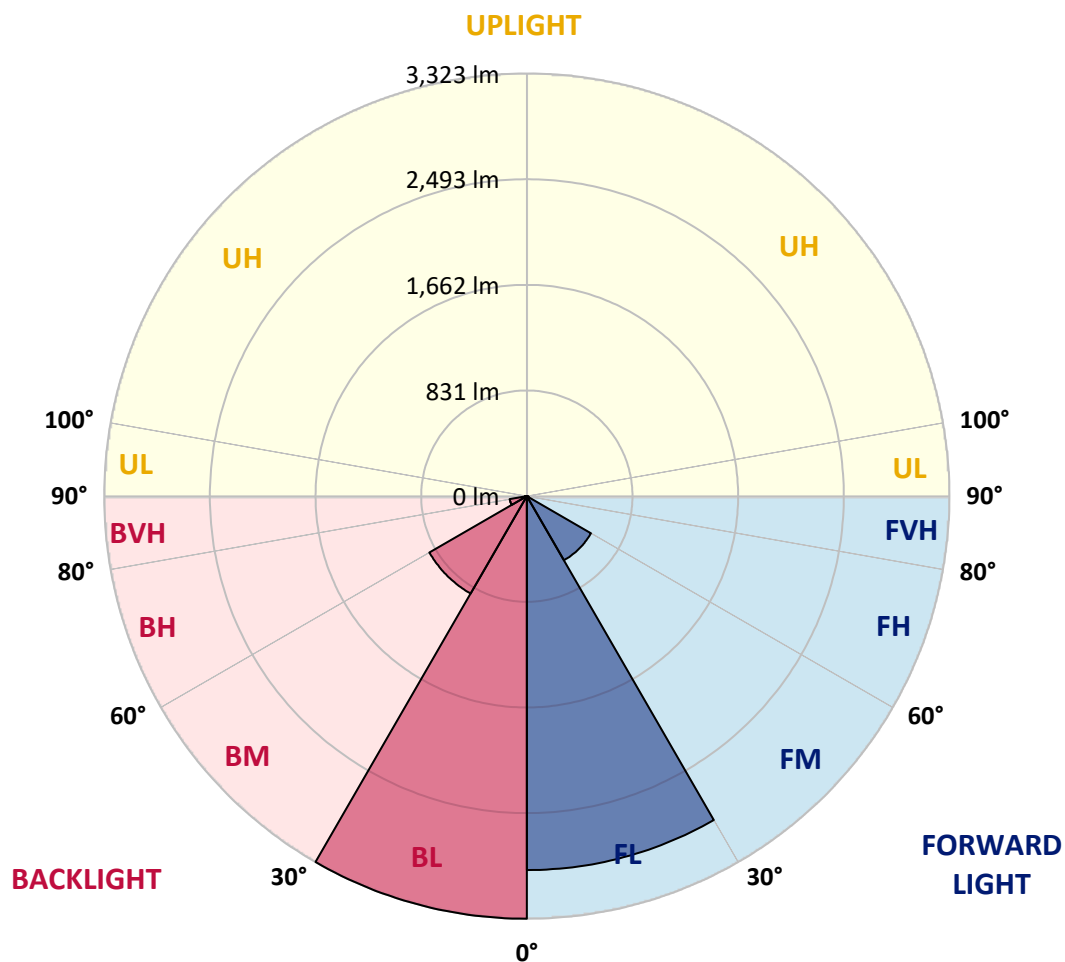
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2940.6	37.2			
FM	(30°-60°)	582.8	7.4			
FH	(60°-80°)	14.1	0.2			G0/660
FVH	(80°-90°)	1.4	0.0			G0/10
BL	(0°-30°)	3323.4	42.1	B4/5000		
BM	(30°-60°)	885.3	11.2	B1/1000		
BH	(60°-80°)	137.2	1.7	B1/500		G1/500
BVH	(80°-90°)	15.2	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°	11005.6	11005.6	11005.6	11005.6	11005.6	11005.6	11005.6	11005.6	11005.6	11005.6
2.5°	10766.9	10803.3	10730.4	10778.7	10816.1	10905.3	10912.6	10943.6	10954.5	11035.6
5°	10562.8	10591.1	10531.8	10596.5	10649.4	10728.6	10789.6	10875.3	10922.7	11018.3
7.5°	10350.6	10356.9	10345.1	10413.4	10492.7	10602.0	10677.6	10789.6	10818.8	10955.4
10°	10093.7	10047.2	10070.0	10170.2	10288.6	10456.2	10508.2	10620.2	10672.1	10811.5
12.5°	9683.7	9707.4	9679.2	9806.7	9905.1	10095.5	10150.1	10263.1	10362.4	10485.4
15°	9106.2	9092.5	9149.9	9249.2	9355.8	9507.0	9595.4	9718.3	9793.9	9921.5
17.5°	7808.0	7854.5	8091.3	8340.0	8558.7	8735.4	8841.1	8943.1	8997.8	9136.2
20°	6743.1	6684.8	6716.7	6856.9	7479.1	7749.7	7860.8	7885.4	7908.2	8017.5
22.5°	5552.4	5533.3	5639.9	5797.5	5945.1	6569.1	6720.3	6662.9	6710.3	6813.2
25°	4123.1	4219.7	4314.4	4616.8	4808.2	5114.2	5401.2	5426.7	5444.0	5508.7
27.5°	3356.1	3322.3	3320.5	3405.2	3687.6	3942.7	4186.9	4243.3	4233.3	4295.3
30°	2638.2	2627.3	2589.0	2609.0	2580.8	2807.6	2922.4	3154.7	3142.0	3143.8
32.5°	1903.0	1862.0	1846.6	1876.6	1847.5	1826.5	1926.7	2189.1	2184.5	2202.7
35°	1151.5	1146.0	1158.8	1185.2	1126.9	1125.1	1146.0	1392.9	1423.0	1452.1
37.5°	635.9	630.4	640.4	737.9	718.8	701.5	706.9	837.2	923.7	945.6
40°	419.1	418.1	425.4	442.7	475.5	469.2	471.9	530.2	612.2	631.3
42.5°	280.6	281.5	286.0	306.1	310.6	343.4	338.0	351.6	428.2	444.6
45°	224.1	223.2	225.9	216.8	222.3	256.0	259.6	260.5	326.1	336.2
47.5°	176.7	176.7	179.5	167.6	164.9	185.8	205.0	207.7	260.5	274.2
50°	123.9	123.9	137.6	132.1	138.5	144.8	165.8	168.5	213.2	227.7
52.5°	91.1	92.9	94.7	95.7	116.6	115.7	133.9	146.7	161.2	186.8
55°	69.2	71.1	66.5	71.1	86.5	96.6	100.2	118.4	128.4	156.7
57.5°	45.5	50.1	46.5	54.7	58.3	74.7	80.2	97.5	103.9	128.4
60°	6.4	7.3	11.8	38.3	41.0	49.2	61.9	77.4	83.8	104.8
62.5°	0.9	0.9	2.7	6.4	27.3	32.8	46.5	53.7	61.9	78.3
65°	0.0	0.0	0.9	1.8	5.5	19.1	23.7	29.2	42.8	56.5
67.5°	0.0	0.0	0.9	1.8	2.7	6.4	10.0	19.1	24.6	39.2
70°	0.0	0.0	0.9	1.8	2.7	3.6	5.5	7.3	14.6	22.8
72.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.6	5.5	6.4	14.6
75°	0.0	0.0	0.9	1.8	2.7	4.6	5.5	5.5	5.5	6.4
77.5°	0.0	0.0	0.9	1.8	3.6	5.5	6.4	5.5	4.6	4.6
80°	0.0	0.0	0.9	2.7	4.6	6.4	7.3	5.5	3.6	2.7
82.5°	0.0	0.0	0.9	2.7	4.6	6.4	7.3	6.4	3.6	2.7
85°	0.0	0.0	0.9	2.7	3.6	4.6	7.3	6.4	3.6	1.8
87.5°	0.0	0.0	0.0	0.9	0.9	1.8	3.6	2.7	1.8	0.9
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°
11005.6	0°	11005.6	11005.6	11005.6	11005.6	11005.6	11005.6	11005.6	11005.6	11005.6
11033.8	2.5°	11115.8	11156.8	11228.7	11248.8	11310.7	11239.7	11200.5	11204.1	11119.4
11006.5	5°	11115.8	11209.6	11335.3	11395.5	11441.0	11437.4	11427.3	11401.8	11339.9
10951.8	7.5°	11086.6	11239.7	11412.8	11492.9	11547.6	11543.0	11565.8	11524.8	11449.2
10854.3	10°	10992.8	11125.8	11339.0	11404.6	11492.9	11494.7	11466.5	11474.7	11339.9
10498.1	12.5°	10697.6	10801.5	10988.2	11062.9	11170.4	11187.7	11156.8	11144.9	11017.4
9914.2	15°	10126.5	10186.6	10374.2	10448.9	10555.5	10541.0	10571.9	10559.2	10447.1
9125.3	17.5°	9291.1	9310.2	9507.0	9569.8	9670.1	9709.2	9662.8	9722.0	9625.4
8036.7	20°	8093.1	8196.1	8417.5	8514.0	8572.3	8642.5	8581.4	8647.9	8535.0
6715.7	22.5°	6877.9	6938.9	7139.4	7278.7	7387.1	7400.8	7378.0	7424.5	7272.4
5551.5	25°	5550.6	5651.7	5810.2	5992.4	6099.0	6164.6	6105.4	6135.5	6110.9
4305.3	27.5°	4378.2	4468.4	4587.7	4723.4	4883.8	4969.4	4922.0	4973.0	4852.8
3210.3	30°	3213.0	3258.6	3393.4	3537.3	3713.2	3817.0	3821.6	3873.5	3802.4
2249.2	32.5°	2265.6	2305.7	2388.6	2484.2	2651.9	2767.6	2749.3	2756.6	2712.9
1465.8	35°	1473.1	1526.8	1586.0	1631.6	1732.7	1860.2	1850.2	1841.1	1811.0
963.8	37.5°	984.8	1005.7	1038.5	1079.5	1145.1	1225.3	1251.7	1218.9	1206.1
650.4	40°	665.9	702.4	724.2	755.2	786.2	853.6	871.8	865.4	852.7
455.5	42.5°	472.8	501.0	528.4	558.4	574.8	616.7	652.3	642.2	636.8
346.2	45°	358.9	384.4	416.3	439.1	455.5	480.1	513.8	517.4	509.2
277.8	47.5°	287.9	310.6	336.2	364.4	383.5	399.0	428.2	439.1	433.6
234.1	50°	244.1	261.5	286.0	314.3	335.2	348.9	374.4	386.3	382.6
195.9	52.5°	207.7	228.7	251.4	275.1	300.6	314.3	338.0	355.3	352.5
162.2	55°	172.2	199.5	223.2	246.9	276.0	289.7	310.6	333.4	328.9
137.6	57.5°	150.3	173.1	197.7	220.5	251.4	269.7	288.8	312.5	311.6
113.0	60°	125.7	148.5	175.8	194.9	227.7	253.3	270.6	295.2	297.0
85.6	62.5°	100.2	128.4	149.4	175.8	205.9	235.9	252.3	276.9	286.0
65.6	65°	74.7	105.7	129.4	155.8	184.0	217.7	232.3	256.9	266.0
47.4	67.5°	55.6	79.3	109.3	132.1	164.0	193.1	210.4	233.2	239.6
28.2	70°	41.9	61.0	91.1	111.1	143.9	167.6	184.9	202.2	210.4
19.1	72.5°	24.6	45.5	72.0	95.7	123.9	143.9	156.7	170.4	175.8
9.1	75°	17.3	34.6	56.5	79.3	100.2	116.6	128.4	140.3	145.8
4.6	77.5°	9.1	25.5	44.6	63.8	78.3	92.0	103.9	113.0	116.6
3.6	80°	5.5	18.2	36.4	50.1	60.1	72.0	83.8	90.2	89.3
2.7	82.5°	3.6	14.6	26.4	36.4	43.7	52.8	61.0	65.6	65.6
1.8	85°	2.7	10.0	18.2	28.2	29.2	36.4	38.3	42.8	43.7
1.8	87.5°	1.8	6.4	10.0	16.4	15.5	19.1	20.0	22.8	24.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
11005.6
11051.1
11359.9
11466.5
11300.7
10988.2
10482.6
9601.7
8525.9
7251.4
6095.4
4883.8
3815.2
2737.5
1784.6
1203.4
854.5
632.2
508.3
430.9
381.7
350.7
328.9
310.6
297.0
285.1
265.1
239.6
208.6
174.0
143.9
115.7
88.4
64.7
42.8
23.7
0.0

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