

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: P637758

Luminaire Tested: **IFLD-S-SA3B-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637758
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12700.7 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 122.4
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



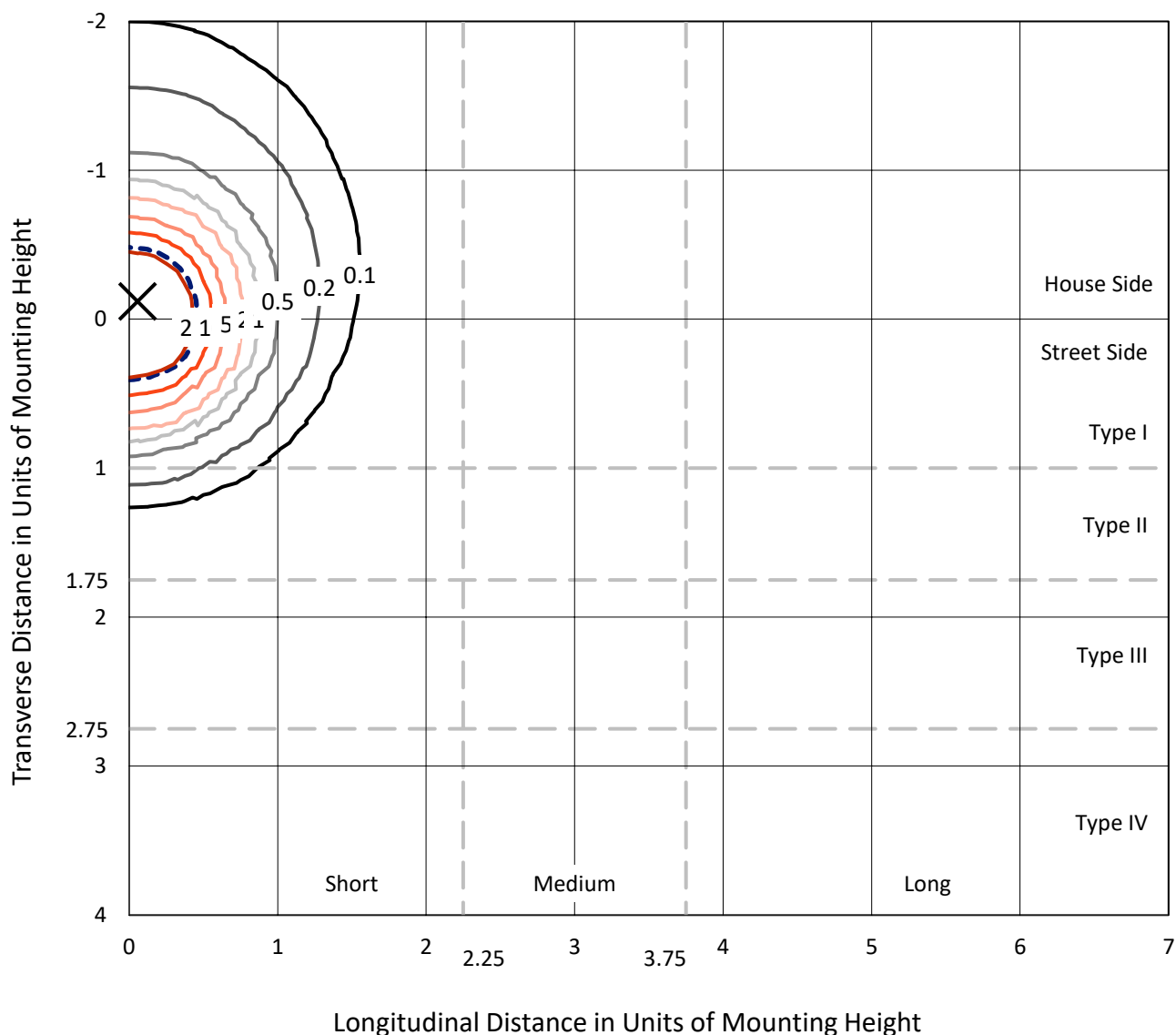
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



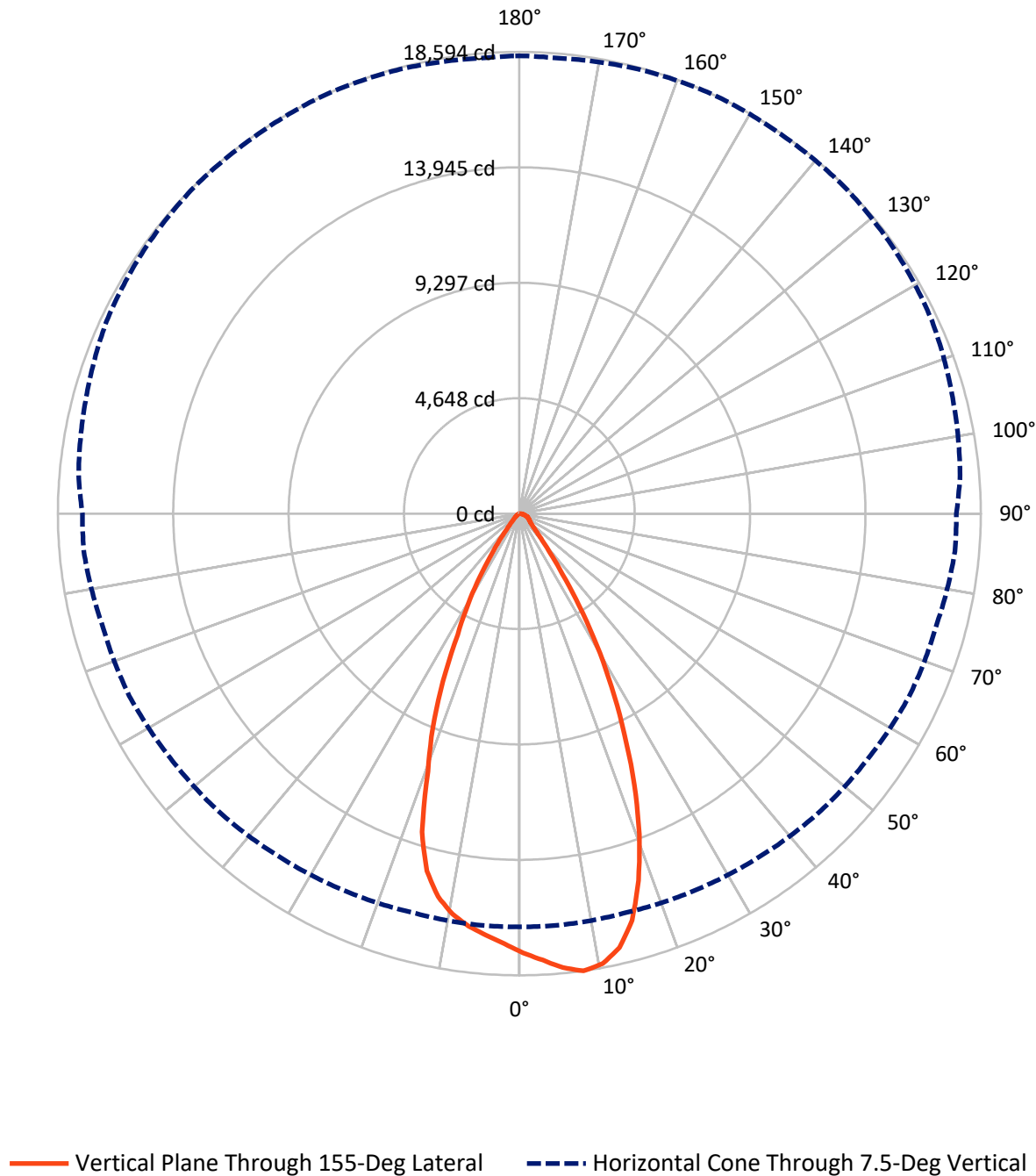
Based on 20 foot mounting height. Maximum calculated value = 45 fc

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	7011.2	0.0	7011.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5689.4	0.0	5689.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	12700.7	0.0	12700.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1687.1	13.3
10°-20°	4374.8	34.4
20°-30°	4008.5	31.6
30°-40°	1619.4	12.8
40°-50°	475.1	3.7
50°-60°	265.6	2.1
60°-70°	161.3	1.3
70°-80°	82.0	0.6
80°-90°	26.8	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°	12700.7	100.0
0°-180°	12700.7	100.0

Coefficient of Utilization



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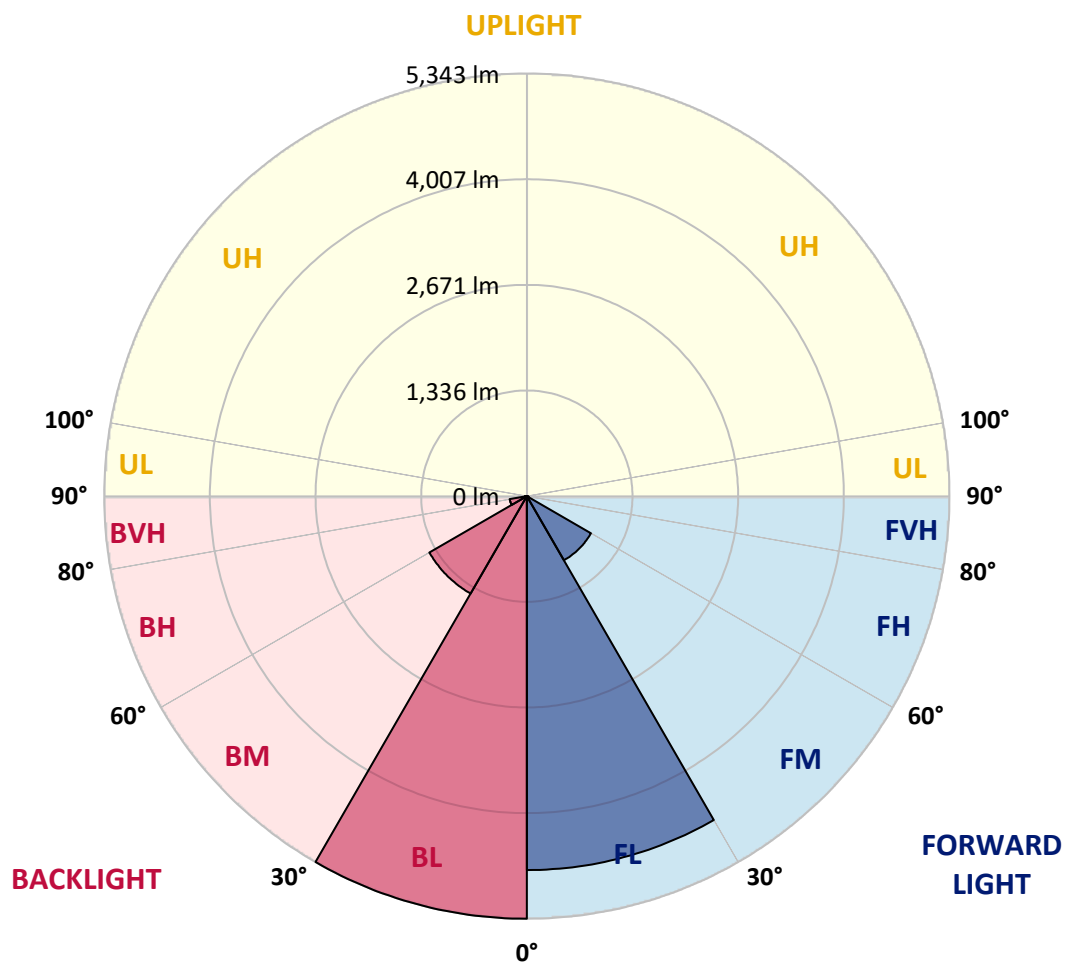
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4727.5	37.2			
FM	(30°-60°)	936.9	7.4			
FH	(60°-80°)	22.7	0.2			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	5342.9	42.1	B5		
BM	(30°-60°)	1423.2	11.2	B2/2500		
BH	(60°-80°)	220.6	1.7	B1/500		G1/500
BVH	(80°-90°)	24.5	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17693.0	17693.0	17693.0	17693.0	17693.0	17693.0	17693.0	17693.0	17693.0	17693.0
2.5°	17309.3	17367.9	17250.7	17328.3	17388.4	17531.9	17543.6	17593.4	17611.0	17741.3
5°	16981.2	17026.6	16931.4	17035.4	17120.4	17247.8	17345.9	17483.6	17559.7	17713.5
7.5°	16640.0	16650.2	16631.2	16741.1	16868.5	17044.2	17165.8	17345.9	17392.8	17612.4
10°	16227.0	16152.3	16188.9	16350.0	16540.4	16809.9	16893.4	17073.5	17157.0	17381.1
12.5°	15568.0	15606.0	15560.6	15765.7	15923.8	16229.9	16317.8	16499.4	16659.0	16856.7
15°	14639.4	14617.5	14709.7	14869.4	15040.7	15283.8	15425.9	15623.6	15745.2	15950.2
17.5°	12552.5	12627.2	13008.0	13407.8	13759.3	14043.4	14213.3	14377.3	14465.2	14687.8
20°	10840.5	10746.7	10798.0	11023.5	12023.8	12458.8	12637.4	12677.0	12713.6	12889.3
22.5°	8926.3	8895.6	9066.9	9320.3	9557.5	10560.7	10803.8	10711.6	10787.7	10953.2
25°	6628.5	6783.7	6936.0	7422.2	7729.8	8221.9	8683.2	8724.2	8752.0	8856.0
27.5°	5395.3	5341.1	5338.2	5474.4	5928.4	6338.5	6731.0	6821.8	6805.7	6905.3
30°	4241.3	4223.7	4162.2	4194.4	4149.0	4513.7	4698.2	5071.7	5051.2	5054.1
32.5°	3059.4	2993.5	2968.6	3016.9	2970.1	2936.4	3097.5	3519.3	3511.9	3541.2
35°	1851.2	1842.4	1862.9	1905.4	1811.6	1808.7	1842.4	2239.3	2287.6	2334.5
37.5°	1022.2	1013.5	1029.6	1186.3	1155.5	1127.7	1136.5	1345.9	1485.0	1520.2
40°	673.7	672.2	683.9	711.8	764.5	754.2	758.6	852.4	984.2	1014.9
42.5°	451.1	452.5	459.9	492.1	499.4	552.1	543.3	565.3	688.3	714.7
45°	360.3	358.8	363.2	348.6	357.3	411.5	417.4	418.9	524.3	540.4
47.5°	284.1	284.1	288.5	269.5	265.1	298.8	329.5	333.9	418.9	440.8
50°	199.2	199.2	221.1	212.4	222.6	232.9	266.5	270.9	342.7	366.1
52.5°	146.5	149.4	152.3	153.8	187.5	186.0	215.3	235.8	259.2	300.2
55°	111.3	114.2	106.9	114.2	139.1	155.2	161.1	190.4	206.5	251.9
57.5°	73.2	80.5	74.7	87.9	93.7	120.1	128.9	156.7	167.0	206.5
60°	10.3	11.7	19.0	61.5	65.9	79.1	99.6	124.5	134.7	168.4
62.5°	1.5	1.5	4.4	10.3	43.9	52.7	74.7	86.4	99.6	125.9
65°	0.0	0.0	1.5	2.9	8.8	30.8	38.1	46.9	68.8	90.8
67.5°	0.0	0.0	1.5	2.9	4.4	10.3	16.1	30.8	39.5	63.0
70°	0.0	0.0	1.5	2.9	4.4	5.9	8.8	11.7	23.4	36.6
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	8.8	10.3	23.4
75°	0.0	0.0	1.5	2.9	4.4	7.3	8.8	8.8	8.8	10.3
77.5°	0.0	0.0	1.5	2.9	5.9	8.8	10.3	8.8	7.3	7.3
80°	0.0	0.0	1.5	4.4	7.3	10.3	11.7	8.8	5.9	4.4
82.5°	0.0	0.0	1.5	4.4	7.3	10.3	11.7	10.3	5.9	4.4
85°	0.0	0.0	1.5	4.4	5.9	7.3	11.7	10.3	5.9	2.9
87.5°	0.0	0.0	0.0	1.5	1.5	2.9	5.9	4.4	2.9	1.5
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°
17693.0	0°	17693.0	17693.0	17693.0	17693.0	17693.0	17693.0	17693.0	17693.0	17693.0
17738.4	2.5°	17870.2	17936.1	18051.8	18084.0	18183.6	18069.4	18006.4	18012.3	17876.1
17694.5	5°	17870.2	18021.1	18223.2	18319.8	18393.0	18387.2	18371.1	18330.1	18230.5
17606.6	7.5°	17823.3	18069.4	18347.6	18476.5	18564.4	18557.1	18593.7	18527.8	18406.2
17449.9	10°	17672.5	17886.3	18229.0	18334.5	18476.5	18479.4	18434.0	18447.2	18230.5
16877.3	12.5°	17198.0	17364.9	17665.2	17785.3	17958.1	17985.9	17936.1	17917.1	17712.0
15938.5	15°	16279.7	16376.4	16678.1	16798.2	16969.5	16946.1	16995.9	16975.4	16795.2
14670.2	17.5°	14936.7	14967.5	15283.8	15384.9	15546.0	15609.0	15534.3	15629.5	15474.2
12920.1	20°	13010.9	13176.4	13532.3	13687.5	13781.2	13894.0	13795.9	13902.8	13721.2
10796.5	22.5°	11057.2	11155.3	11477.5	11701.6	11875.9	11897.8	11861.2	11935.9	11691.3
8924.9	25°	8923.4	9085.9	9340.8	9633.7	9805.0	9910.5	9815.3	9863.6	9824.1
6921.4	27.5°	7038.5	7183.5	7375.4	7593.6	7851.3	7989.0	7912.9	7994.9	7801.6
5161.0	30°	5165.4	5238.6	5455.4	5686.8	5969.4	6136.4	6143.7	6227.2	6113.0
3615.9	32.5°	3642.3	3706.7	3840.0	3993.8	4263.2	4449.2	4420.0	4431.7	4361.4
2356.4	35°	2368.1	2454.6	2549.7	2623.0	2785.5	2990.6	2974.5	2959.8	2911.5
1549.5	37.5°	1583.2	1616.8	1669.6	1735.5	1840.9	1969.8	2012.3	1959.5	1939.0
1045.7	40°	1070.6	1129.2	1164.3	1214.1	1263.9	1372.3	1401.6	1391.3	1370.8
732.3	42.5°	760.1	805.5	849.4	897.8	924.1	991.5	1048.6	1032.5	1023.7
556.5	45°	577.0	618.0	669.3	705.9	732.3	771.8	826.0	831.9	818.7
446.7	47.5°	462.8	499.4	540.4	585.8	616.6	641.5	688.3	705.9	697.1
376.4	50°	392.5	420.3	459.9	505.3	538.9	560.9	601.9	621.0	615.1
314.9	52.5°	333.9	367.6	404.2	442.3	483.3	505.3	543.3	571.2	566.8
260.7	55°	276.8	320.7	358.8	396.9	443.8	465.7	499.4	536.0	528.7
221.1	57.5°	241.6	278.3	317.8	354.4	404.2	433.5	464.3	502.3	500.9
181.6	60°	202.1	238.7	282.7	313.4	366.1	407.1	435.0	474.5	477.4
137.7	62.5°	161.1	206.5	240.2	282.7	331.0	379.3	405.7	445.2	459.9
105.4	65°	120.1	169.9	208.0	250.4	295.8	350.0	373.5	413.0	427.6
76.2	67.5°	89.3	127.4	175.7	212.4	263.6	310.5	338.3	374.9	385.2
45.4	70°	67.4	98.1	146.5	178.7	231.4	269.5	297.3	325.1	338.3
30.8	72.5°	39.5	73.2	115.7	153.8	199.2	231.4	251.9	273.9	282.7
14.6	75°	27.8	55.7	90.8	127.4	161.1	187.5	206.5	225.5	234.3
7.3	77.5°	14.6	41.0	71.8	102.5	125.9	147.9	167.0	181.6	187.5
5.9	80°	8.8	29.3	58.6	80.5	96.7	115.7	134.7	145.0	143.5
4.4	82.5°	5.9	23.4	42.5	58.6	70.3	84.9	98.1	105.4	105.4
2.9	85°	4.4	16.1	29.3	45.4	46.9	58.6	61.5	68.8	70.3
2.9	87.5°	2.9	10.3	16.1	26.4	24.9	30.8	32.2	36.6	39.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17693.0
17766.2
18262.7
18434.0
18167.5
17665.2
16852.4
15436.2
13706.5
11657.7
9799.2
7851.3
6133.5
4400.9
2869.0
1934.6
1373.7
1016.4
817.2
692.7
613.6
563.8
528.7
499.4
477.4
458.4
426.2
385.2
335.4
279.7
231.4
186.0
142.1
104.0
68.8
38.1
0.0

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