

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: P637990

Luminaire Tested: **IFLD-S-SA3B-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637990
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10547.2 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

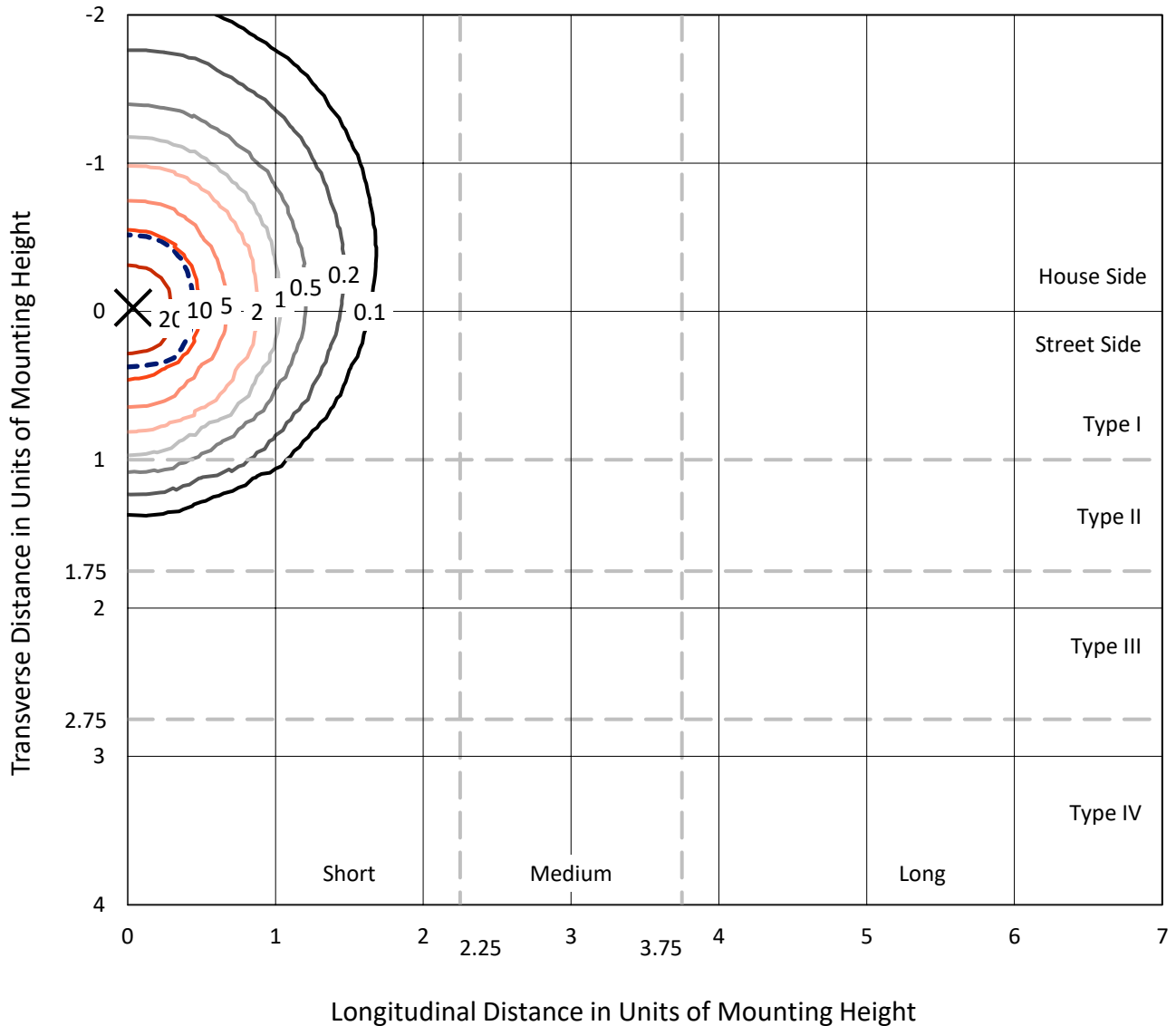
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

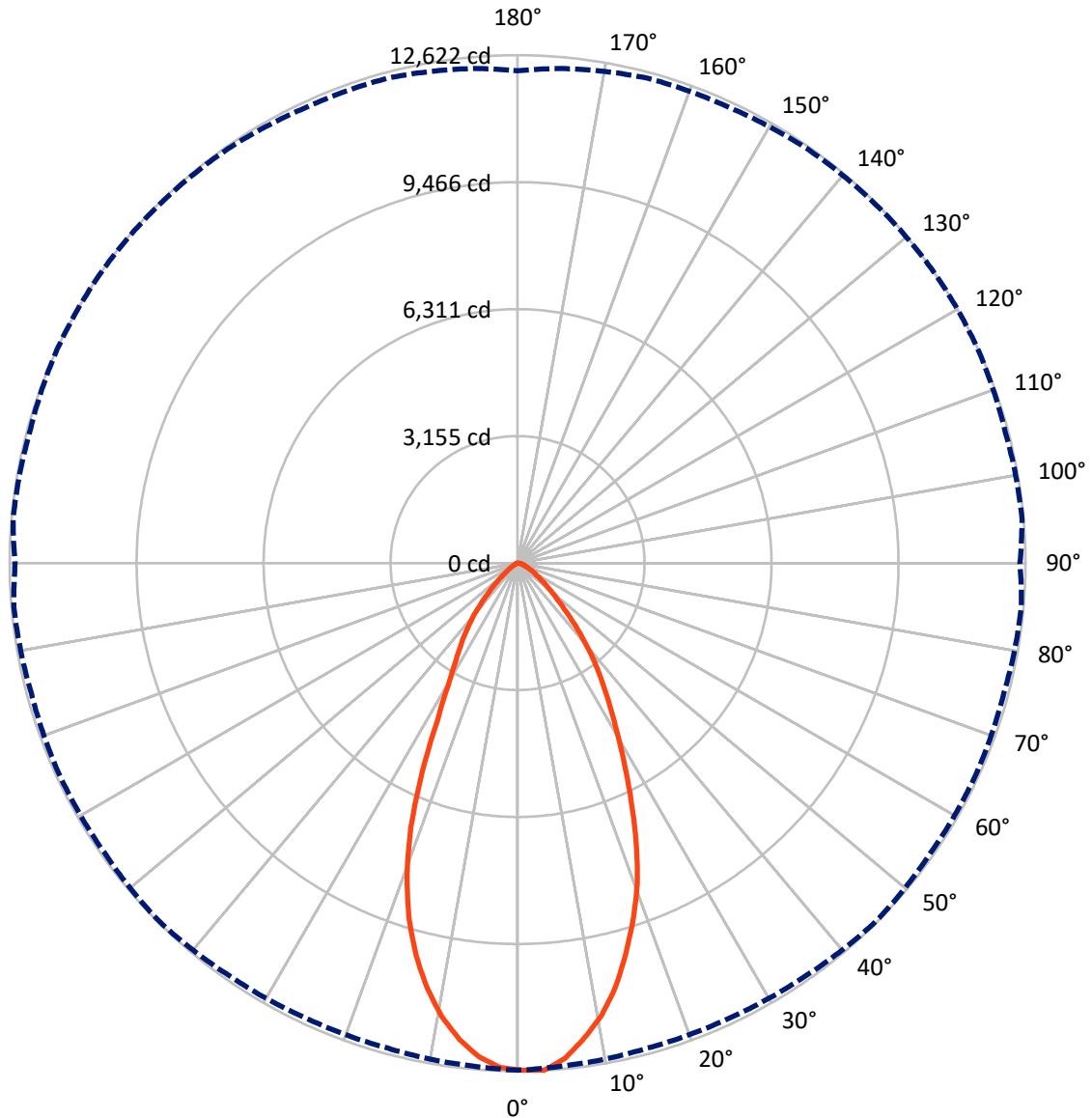
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5984.9	0.0	5984.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4562.3	0.0	4562.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	10547.2	0.0	10547.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1144.3	10.8
10°-20°	2727.6	25.9
20°-30°	2778.0	26.3
30°-40°	2071.6	19.6
40°-50°	1082.2	10.3
50°-60°	455.2	4.3
60°-70°	185.9	1.8
70°-80°	78.2	0.7
80°-90°	24.1	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°	10547.2	100.0
0°-180°	10547.2	100.0



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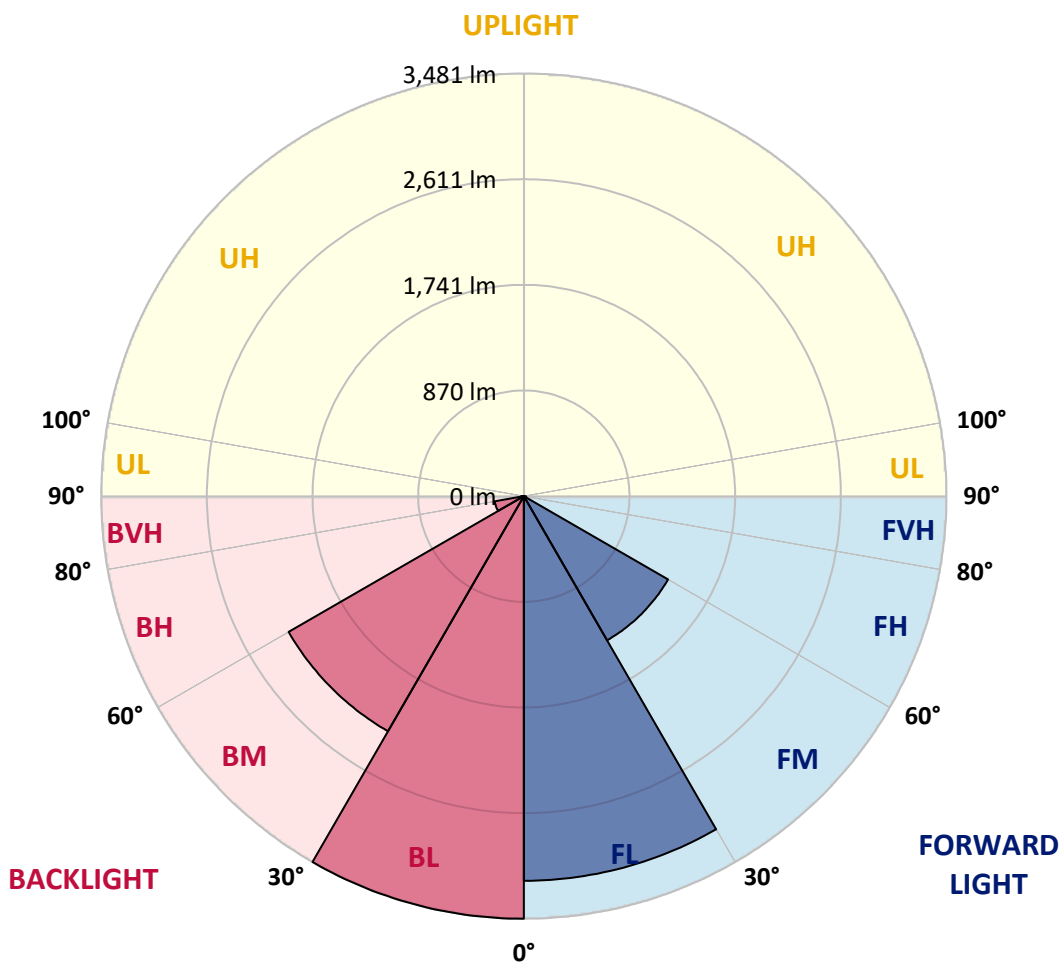
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3168.5	30.0			
FM (30°-60°)	1371.7	13.0			
FH (60°-80°)	19.9	0.2			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	3481.4	33.0	B4/5000		
BM (30°-60°)	2237.3	21.2	B2/2500		
BH (60°-80°)	244.3	2.3	B1/500		G1/500
BVH (80°-90°)	21.9	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°	12601.4	12601.4	12601.4	12601.4	12601.4	12601.4	12601.4	12601.4	12601.4	12601.4
2.5°	12602.7	12551.2	12478.1	12471.3	12509.2	12591.9	12539.0	12541.7	12509.2	12564.8
5°	12404.9	12356.1	12306.0	12239.6	12295.2	12330.4	12303.3	12273.5	12231.5	12285.7
7.5°	12031.0	12003.9	11929.4	11899.5	11933.4	11972.7	11914.5	11906.3	11848.1	11918.5
10°	11459.2	11448.4	11375.2	11357.6	11387.4	11447.0	11421.3	11415.9	11379.3	11372.5
12.5°	10865.8	10823.8	10733.0	10727.6	10772.3	10861.7	10792.6	10726.3	10746.6	10764.2
15°	9337.5	9292.8	9517.7	9871.4	10057.0	10050.2	10070.5	9990.6	9966.2	9974.3
17.5°	7423.2	7347.3	7428.6	7975.9	8857.9	9370.1	9229.2	9057.1	8965.0	8904.0
20°	6407.0	6411.1	6396.2	6537.1	7087.2	8255.0	8221.2	7889.2	7768.6	7718.5
22.5°	5789.2	5766.2	5733.7	5778.4	5926.1	6611.6	7070.9	6766.1	6724.1	6668.5
25°	5183.6	5183.6	5144.3	5189.0	5231.0	5240.5	5701.2	5825.8	5744.5	5744.5
27.5°	4659.3	4632.2	4614.6	4634.9	4579.4	4312.5	4370.7	5008.8	4953.3	4919.4
30°	4139.0	4130.9	4101.1	4128.2	3922.3	3621.5	3499.5	4227.1	4285.4	4273.2
32.5°	3416.9	3449.4	3582.2	3624.2	3271.9	3029.4	2912.9	3509.0	3742.1	3732.6
35°	2322.2	2349.3	2501.0	3002.3	2712.4	2539.0	2505.1	2791.0	3174.4	3211.0
37.5°	1849.4	1845.3	1888.6	1978.1	2179.9	2137.9	2128.5	2203.0	2589.1	2605.4
40°	1524.2	1518.8	1517.4	1444.3	1394.1	1777.5	1751.8	1707.1	2041.7	2074.3
42.5°	1228.8	1234.3	1238.3	1078.5	1005.3	1371.1	1356.2	1310.1	1601.4	1639.4
45°	964.6	963.3	971.4	803.4	783.1	876.6	1013.4	976.8	1208.5	1249.2
47.5°	499.9	517.5	627.3	621.9	631.4	621.9	766.8	757.4	909.1	974.1
50°	336.0	341.4	350.9	352.3	497.2	457.9	520.3	589.4	636.8	737.0
52.5°	260.1	264.2	239.8	224.9	304.8	338.7	341.4	407.8	444.4	546.0
55°	145.0	162.6	174.8	176.1	168.0	250.6	249.3	302.1	330.6	398.3
57.5°	19.0	23.0	35.2	113.8	112.5	139.5	174.8	219.5	235.7	291.3
60°	1.4	2.7	4.1	17.6	74.5	81.3	119.2	136.8	163.9	204.6
62.5°	0.0	0.0	1.4	4.1	14.9	47.4	62.3	71.8	96.2	134.1
65°	0.0	0.0	1.4	2.7	5.4	17.6	24.4	39.3	56.9	82.6
67.5°	0.0	0.0	1.4	2.7	4.1	6.8	10.8	17.6	29.8	50.1
70°	0.0	0.0	1.4	2.7	4.1	5.4	8.1	10.8	16.3	27.1
72.5°	0.0	0.0	1.4	1.4	2.7	6.8	6.8	8.1	10.8	14.9
75°	0.0	0.0	1.4	2.7	4.1	6.8	6.8	6.8	8.1	9.5
77.5°	0.0	0.0	1.4	2.7	4.1	6.8	5.4	6.8	6.8	6.8
80°	0.0	0.0	1.4	2.7	4.1	6.8	8.1	6.8	5.4	5.4
82.5°	0.0	0.0	1.4	4.1	4.1	9.5	9.5	9.5	4.1	4.1
85°	0.0	0.0	2.7	4.1	6.8	10.8	10.8	8.1	4.1	2.7
87.5°	0.0	0.0	1.4	2.7	2.7	5.4	8.1	6.8	2.7	1.4
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°
12601.4	0°	12601.4	12601.4	12601.4	12601.4	12601.4	12601.4	12601.4	12601.4	12601.4
12483.5	2.5°	12583.7	12549.9	12613.5	12621.7	12594.6	12560.7	12482.1	12475.4	12338.5
12207.1	5°	12345.3	12289.7	12330.4	12357.5	12348.0	12311.4	12278.9	12249.1	12125.8
11758.6	7.5°	11900.9	11880.6	11899.5	11919.9	11959.2	11919.9	11906.3	11875.2	11753.2
11317.0	10°	11407.7	11369.8	11441.6	11432.1	11421.3	11410.5	11353.5	11359.0	11215.4
10715.4	12.5°	10802.1	10738.5	10807.5	10815.7	10807.5	10769.6	10705.9	10733.0	10601.6
9902.5	15°	9987.9	9981.1	10031.2	10063.7	10086.8	10046.1	10024.5	10038.0	9959.4
8856.6	17.5°	8988.0	9076.1	9240.0	9295.5	9296.9	9338.9	9326.7	9310.5	9252.2
7698.2	20°	7812.0	7981.4	8233.4	8492.1	8566.6	8531.4	8515.2	8545.0	8458.3
6610.3	22.5°	6726.8	6871.7	7164.4	7542.4	7760.5	7782.2	7778.1	7752.4	7718.5
5739.1	25°	5805.5	5934.2	6214.6	6560.1	6978.8	7041.1	7043.8	7035.7	7005.9
4949.2	27.5°	5027.8	5183.6	5338.1	5647.0	6092.7	6350.1	6317.6	6308.1	6297.3
4282.6	30°	4323.3	4519.7	4664.7	4857.1	5256.8	5605.0	5638.8	5622.6	5596.8
3731.2	32.5°	3765.1	3881.6	4065.9	4195.9	4483.2	4877.4	5007.5	4995.3	4972.3
3234.0	35°	3280.1	3326.1	3471.1	3616.1	3807.1	4189.2	4381.5	4354.5	4350.4
2635.2	37.5°	2701.5	2856.0	2935.9	3082.3	3216.4	3513.1	3778.6	3766.5	3767.8
2119.0	40°	2181.3	2270.7	2429.2	2552.5	2675.8	2892.6	3187.9	3196.1	3193.4
1640.7	42.5°	1674.6	1761.3	1927.9	2062.1	2171.8	2305.9	2587.7	2597.2	2609.4
1277.6	45°	1307.4	1363.0	1484.9	1624.5	1741.0	1822.3	2036.3	2097.3	2098.6
990.4	47.5°	1014.8	1078.5	1165.2	1299.3	1413.1	1471.4	1627.2	1709.8	1705.7
760.1	50°	796.6	854.9	925.4	1031.0	1154.3	1200.4	1315.5	1396.8	1392.8
573.1	52.5°	609.7	684.2	746.5	827.8	948.4	987.7	1070.3	1163.8	1150.3
420.0	55°	462.0	537.9	596.1	663.9	773.6	823.7	880.6	955.2	957.9
325.2	57.5°	348.2	426.8	479.6	548.7	631.4	686.9	730.3	810.2	808.8
222.2	60°	249.3	317.0	380.7	452.5	516.2	579.9	609.7	685.5	688.3
157.2	62.5°	180.2	243.9	304.8	367.2	424.1	486.4	513.5	573.1	581.2
103.0	65°	126.0	170.7	241.2	288.6	352.3	398.3	433.5	485.0	494.5
61.0	67.5°	81.3	123.3	191.0	233.0	291.3	330.6	367.2	407.8	420.0
39.3	70°	48.8	93.5	142.3	187.0	239.8	275.0	310.3	345.5	352.3
19.0	72.5°	31.2	65.0	103.0	151.7	192.4	230.3	261.5	287.2	266.9
12.2	75°	17.6	44.7	81.3	119.2	155.8	192.4	218.1	231.7	185.6
8.1	77.5°	10.8	32.5	66.4	96.2	120.6	154.5	170.7	178.8	132.8
5.4	80°	6.8	24.4	55.5	78.6	78.6	113.8	132.8	139.5	96.2
4.1	82.5°	5.4	17.6	43.4	59.6	52.8	85.4	104.3	105.7	67.7
2.7	85°	4.1	13.5	27.1	39.3	36.6	59.6	61.0	67.7	44.7
2.7	87.5°	2.7	8.1	16.3	23.0	20.3	28.5	32.5	36.6	24.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12601.4
12231.5
12026.9
11727.5
11166.6
10563.7
9864.6
9165.5
8395.9
7653.5
6905.6
6233.6
5564.3
4911.3
4305.7
3724.5
3145.9
2568.8
2063.4
1690.8
1392.8
1151.6
957.9
806.1
681.5
578.5
491.8
418.6
346.8
247.9
176.1
124.6
89.4
62.3
40.6
21.7
0.0

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