

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: P638004

Luminaire Tested: **IFLD-L-SA7A-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638004
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19401.5 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

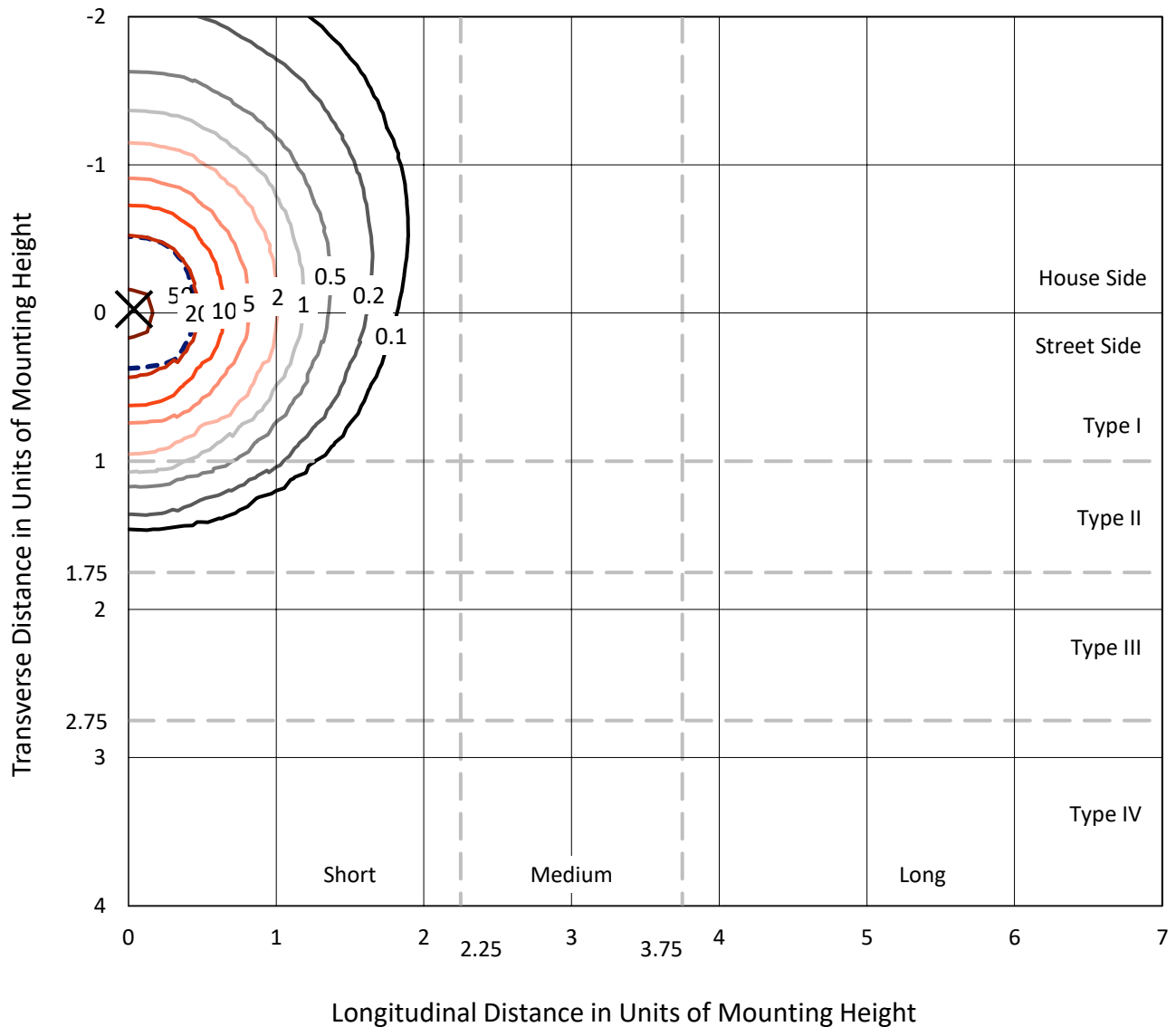
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

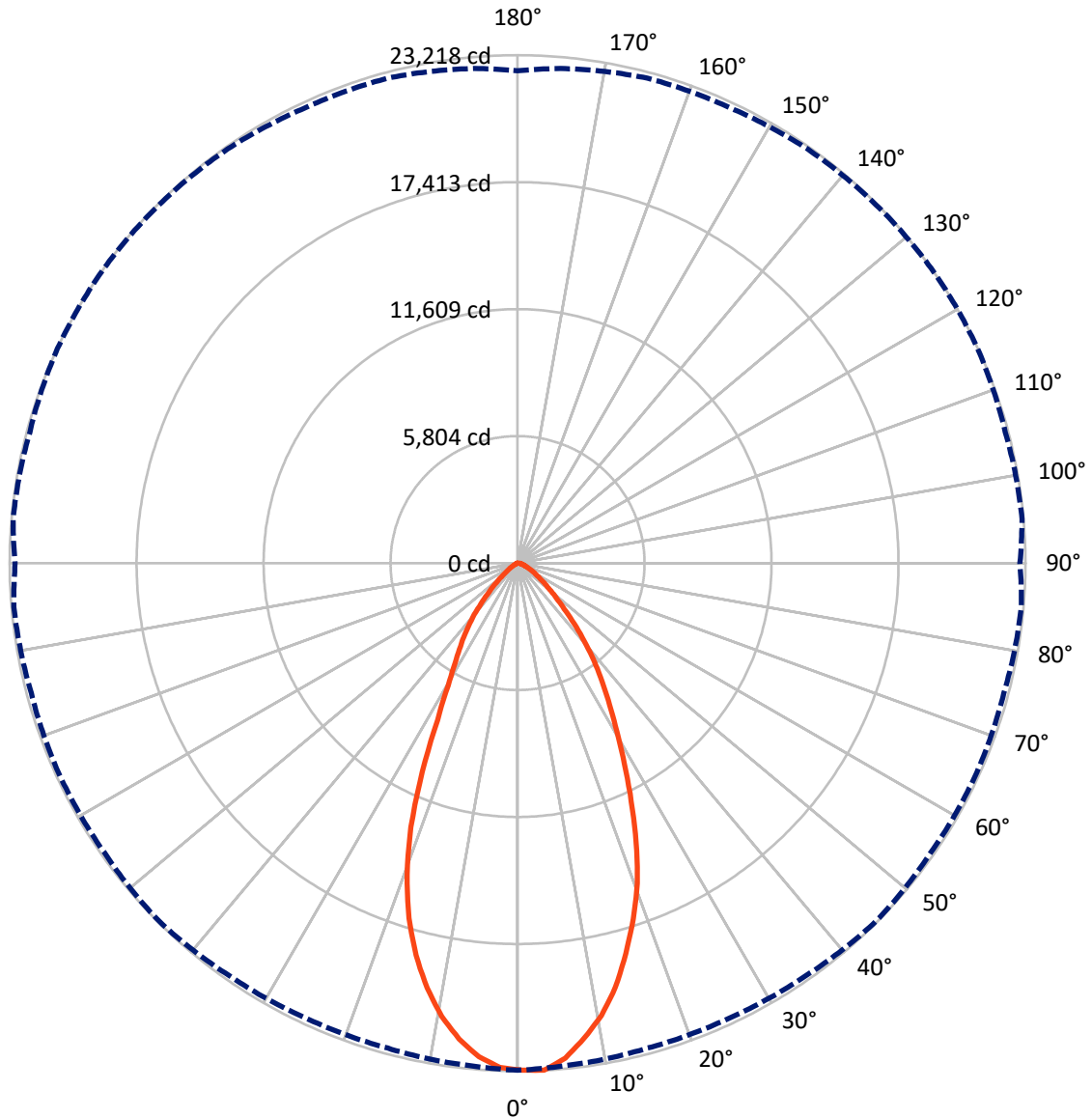
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 58 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	11009.2	0.0	11009.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8392.3	0.0	8392.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	19401.5	0.0	19401.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2104.8	10.8
10°-20°	5017.5	25.9
20°-30°	5110.2	26.3
30°-40°	3810.7	19.6
40°-50°	1990.8	10.3
50°-60°	837.3	4.3
60°-70°	342.0	1.8
70°-80°	143.9	0.7
80°-90°	44.3	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°	19401.5	100.0
0°-180°	19401.5	100.0



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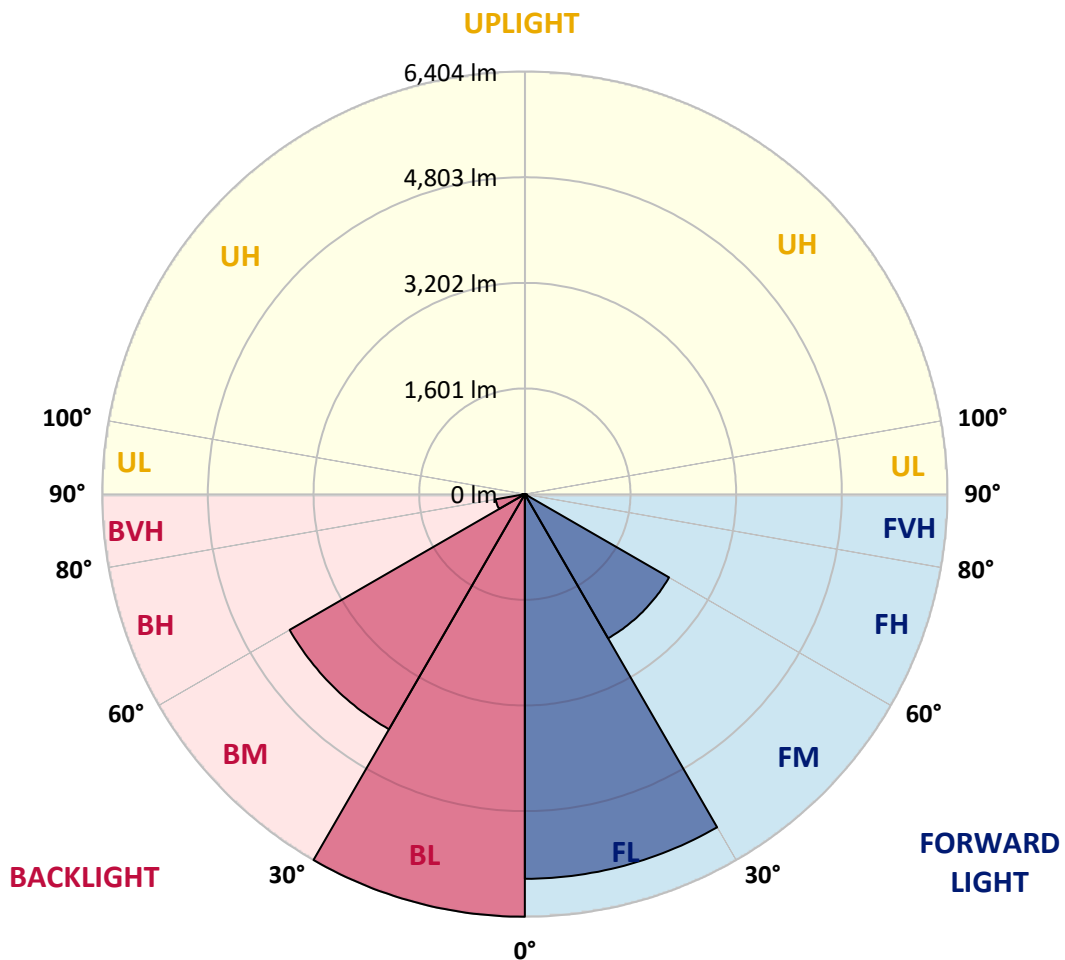
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5828.4	30.0			
FM (30°-60°)	2523.2	13.0			
FH (60°-80°)	36.5	0.2			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	6404.0	33.0	B5		
BM (30°-60°)	4115.5	21.2	B3/5000		
BH (60°-80°)	449.4	2.3	B1/500		G1/500
BVH (80°-90°)	40.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23180.1	23180.1	23180.1	23180.1	23180.1	23180.1	23180.1	23180.1	23180.1	23180.1
2.5°	23182.6	23087.9	22953.3	22940.8	23010.6	23162.6	23065.4	23070.4	23010.6	23112.8
5°	22818.7	22729.0	22636.8	22514.7	22616.8	22681.6	22631.8	22577.0	22499.7	22599.4
7.5°	22130.9	22081.0	21943.9	21889.1	21951.4	22023.7	21916.5	21901.6	21794.4	21924.0
10°	21079.1	21059.2	20924.6	20892.2	20947.1	21056.7	21009.4	20999.4	20932.1	20919.6
12.5°	19987.6	19910.3	19743.3	19733.3	19815.6	19980.1	19853.0	19730.9	19768.2	19800.6
15°	17176.3	17094.1	17507.8	18158.3	18499.7	18487.2	18524.6	18377.6	18332.7	18347.7
17.5°	13654.8	13515.3	13664.8	14671.7	16294.1	17236.1	16977.0	16660.4	16491.0	16378.8
20°	11785.7	11793.2	11765.7	12024.9	13036.8	15185.1	15122.7	14512.2	14290.4	14198.1
22.5°	10649.2	10606.9	10547.0	10629.3	10900.9	12162.0	13006.9	12446.1	12368.9	12266.7
25°	9535.2	9535.2	9462.9	9545.2	9622.4	9639.9	10487.2	10716.5	10567.0	10567.0
27.5°	8570.7	8520.9	8488.5	8525.9	8423.7	7932.7	8039.9	9213.7	9111.5	9049.2
30°	7613.7	7598.8	7543.9	7593.8	7215.0	6661.7	6437.4	7775.7	7882.9	7860.4
32.5°	6285.4	6345.2	6589.4	6666.7	6018.7	5572.6	5358.3	6454.8	6883.5	6866.0
35°	4271.7	4321.5	4600.6	5522.7	4989.4	4670.4	4608.1	5134.0	5839.3	5906.5
37.5°	3401.9	3394.4	3474.1	3638.6	4010.0	3932.7	3915.3	4052.3	4762.6	4792.5
40°	2803.7	2793.8	2791.3	2656.7	2564.5	3269.8	3222.4	3140.2	3755.8	3815.6
42.5°	2260.4	2270.4	2277.9	1983.8	1849.2	2522.1	2494.7	2410.0	2945.8	3015.6
45°	1774.5	1772.0	1786.9	1477.9	1440.5	1612.5	1864.2	1796.9	2223.1	2297.8
47.5°	919.6	952.0	1153.9	1143.9	1161.4	1143.9	1410.6	1393.1	1672.3	1791.9
50°	618.1	628.0	645.5	648.0	914.6	842.4	957.0	1084.1	1171.3	1355.8
52.5°	478.5	486.0	441.1	413.7	560.7	623.1	628.0	750.2	817.4	1004.4
55°	266.7	299.1	321.5	324.0	309.0	461.1	458.6	555.8	608.1	732.7
57.5°	34.9	42.4	64.8	209.3	206.9	256.7	321.5	403.7	433.6	535.8
60°	2.5	5.0	7.5	32.4	137.1	149.5	219.3	251.7	301.6	376.3
62.5°	0.0	0.0	2.5	7.5	27.4	87.2	114.6	132.1	176.9	246.7
65°	0.0	0.0	2.5	5.0	10.0	32.4	44.9	72.3	104.7	152.0
67.5°	0.0	0.0	2.5	5.0	7.5	12.5	19.9	32.4	54.8	92.2
70°	0.0	0.0	2.5	5.0	7.5	10.0	15.0	19.9	29.9	49.8
72.5°	0.0	0.0	2.5	2.5	5.0	12.5	12.5	15.0	19.9	27.4
75°	0.0	0.0	2.5	5.0	7.5	12.5	12.5	12.5	15.0	17.4
77.5°	0.0	0.0	2.5	5.0	7.5	12.5	10.0	12.5	12.5	12.5
80°	0.0	0.0	2.5	5.0	7.5	12.5	15.0	12.5	10.0	10.0
82.5°	0.0	0.0	2.5	7.5	7.5	17.4	17.4	17.4	7.5	7.5
85°	0.0	0.0	5.0	7.5	12.5	19.9	19.9	15.0	7.5	5.0
87.5°	0.0	0.0	2.5	5.0	5.0	10.0	15.0	12.5	5.0	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°
23180.1	0°	23180.1	23180.1	23180.1	23180.1	23180.1	23180.1	23180.1	23180.1	23180.1
22963.3	2.5°	23147.7	23085.4	23202.5	23217.5	23167.6	23105.3	22960.8	22948.3	22696.6
22454.8	5°	22709.0	22606.9	22681.6	22731.5	22714.0	22646.7	22586.9	22532.1	22305.3
21629.9	7.5°	21891.6	21854.2	21889.1	21926.5	21998.8	21926.5	21901.6	21844.2	21619.9
20817.5	10°	20984.4	20914.7	21046.7	21029.3	21009.4	20989.4	20884.7	20894.7	20630.5
19710.9	12.5°	19870.4	19753.3	19880.4	19895.3	19880.4	19810.6	19693.5	19743.3	19501.6
18215.6	15°	18372.6	18360.1	18452.3	18512.2	18554.5	18479.8	18439.9	18464.8	18320.3
16291.6	17.5°	16533.3	16695.3	16996.9	17099.1	17101.6	17178.8	17156.4	17126.5	17019.3
14160.8	20°	14370.1	14681.6	15145.2	15621.2	15758.3	15693.5	15663.6	15718.4	15558.9
12159.5	22.5°	12373.8	12640.5	13178.8	13874.2	14275.4	14315.3	14307.8	14260.4	14198.1
10557.0	25°	10679.1	10915.9	11431.8	12067.3	12837.4	12952.0	12957.0	12942.1	12887.2
9104.1	27.5°	9248.6	9535.2	9819.3	10387.5	11207.5	11681.0	11621.2	11603.7	11583.8
7877.9	30°	7952.7	8314.0	8580.7	8934.6	9669.8	10310.3	10372.6	10342.7	10295.3
6863.6	32.5°	6925.9	7140.2	7479.1	7718.4	8246.7	8972.0	9211.2	9188.8	9146.4
5948.9	35°	6033.6	6118.4	6385.1	6651.7	7003.1	7705.9	8059.8	8010.0	8002.5
4847.4	37.5°	4969.5	5253.6	5400.6	5669.8	5916.5	6462.3	6950.8	6928.4	6930.8
3897.8	40°	4012.5	4176.9	4468.5	4695.3	4922.1	5320.9	5864.2	5879.1	5874.1
3018.1	42.5°	3080.4	3239.9	3546.4	3793.1	3995.0	4241.7	4760.1	4777.6	4800.0
2350.2	45°	2405.0	2507.2	2731.5	2988.2	3202.5	3352.0	3745.8	3857.9	3860.4
1821.8	47.5°	1866.7	1983.8	2143.3	2390.0	2599.4	2706.5	2993.1	3145.2	3137.7
1398.1	50°	1465.4	1572.6	1702.2	1896.6	2123.4	2208.1	2419.9	2569.5	2562.0
1054.2	52.5°	1121.5	1258.6	1373.2	1522.7	1744.5	1816.8	1968.8	2140.8	2115.9
772.6	55°	849.8	989.4	1096.6	1221.2	1423.1	1515.3	1619.9	1757.0	1762.0
598.1	57.5°	640.5	785.0	882.2	1009.3	1161.4	1263.6	1343.3	1490.3	1487.9
408.7	60°	458.6	583.2	700.3	832.4	949.5	1066.7	1121.5	1261.1	1266.0
289.1	62.5°	331.5	448.6	560.7	675.4	780.1	894.7	944.5	1054.2	1069.2
189.4	65°	231.8	314.0	443.6	530.8	648.0	732.7	797.5	892.2	909.7
112.1	67.5°	149.5	226.8	351.4	428.7	535.8	608.1	675.4	750.2	772.6
72.3	70°	89.7	172.0	261.7	343.9	441.1	505.9	570.7	635.5	648.0
34.9	72.5°	57.3	119.6	189.4	279.1	353.9	423.7	481.0	528.3	491.0
22.4	75°	32.4	82.2	149.5	219.3	286.6	353.9	401.2	426.2	341.4
15.0	77.5°	19.9	59.8	122.1	176.9	221.8	284.1	314.0	329.0	244.2
10.0	80°	12.5	44.9	102.2	144.5	144.5	209.3	244.2	256.7	176.9
7.5	82.5°	10.0	32.4	79.8	109.7	97.2	157.0	191.9	194.4	124.6
5.0	85°	7.5	24.9	49.8	72.3	67.3	109.7	112.1	124.6	82.2
5.0	87.5°	5.0	15.0	29.9	42.4	37.4	52.3	59.8	67.3	44.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23180.1
22499.7
22123.4
21572.6
20540.8
19431.8
18145.8
16859.8
15444.2
14078.5
12702.8
11466.7
10235.5
9034.3
7920.3
6851.1
5786.9
4725.2
3795.6
3110.3
2562.0
2118.4
1762.0
1482.9
1253.6
1064.2
904.7
770.1
638.0
456.1
324.0
229.3
164.5
114.6
74.8
39.9
0.0

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