

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: P637862

Luminaire Tested: **IFLD-L-SA7D-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637862
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37454 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

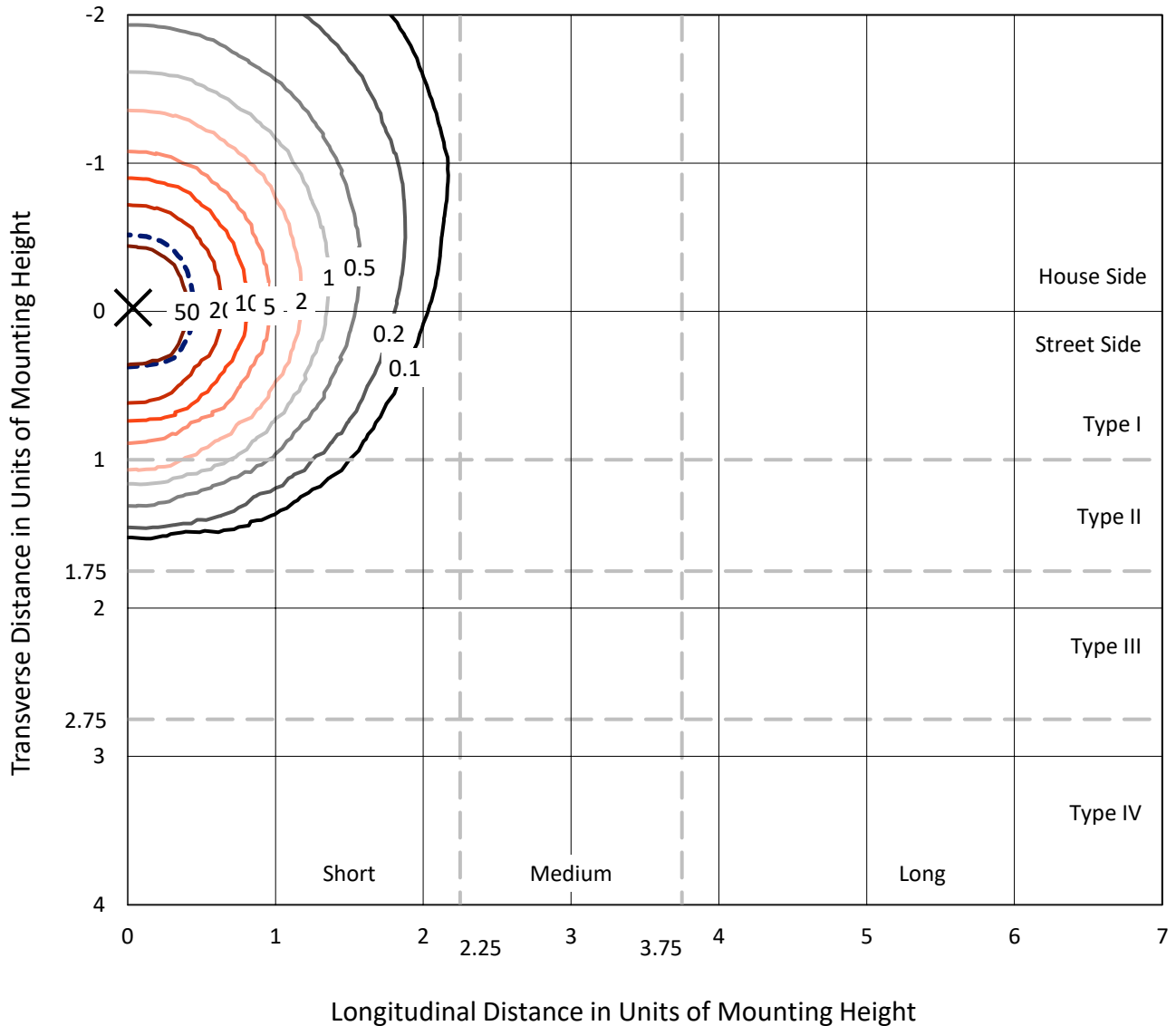
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

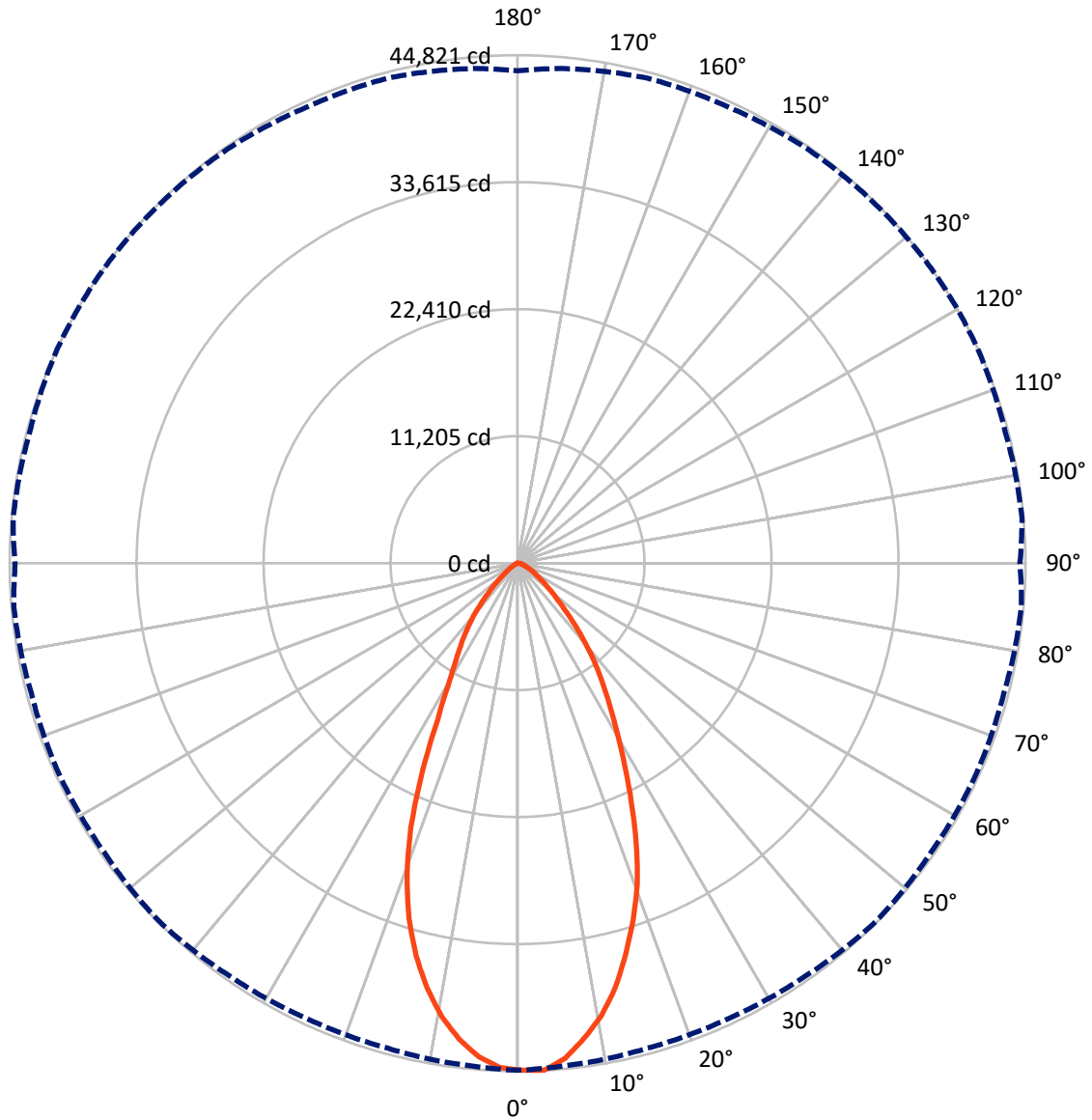
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 111.9 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	21252.9	0.0	21252.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	16201.1	0.0	16201.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	37454.0	0.0	37454.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4063.3	10.8
10°-20°	9686.1	25.9
20°-30°	9865.1	26.3
30°-40°	7356.4	19.6
40°-50°	3843.2	10.3
50°-60°	1616.4	4.3
60°-70°	660.2	1.8
70°-80°	277.8	0.7
80°-90°	85.6	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°	37454.0	100.0
0°-180°	37454.0	100.0



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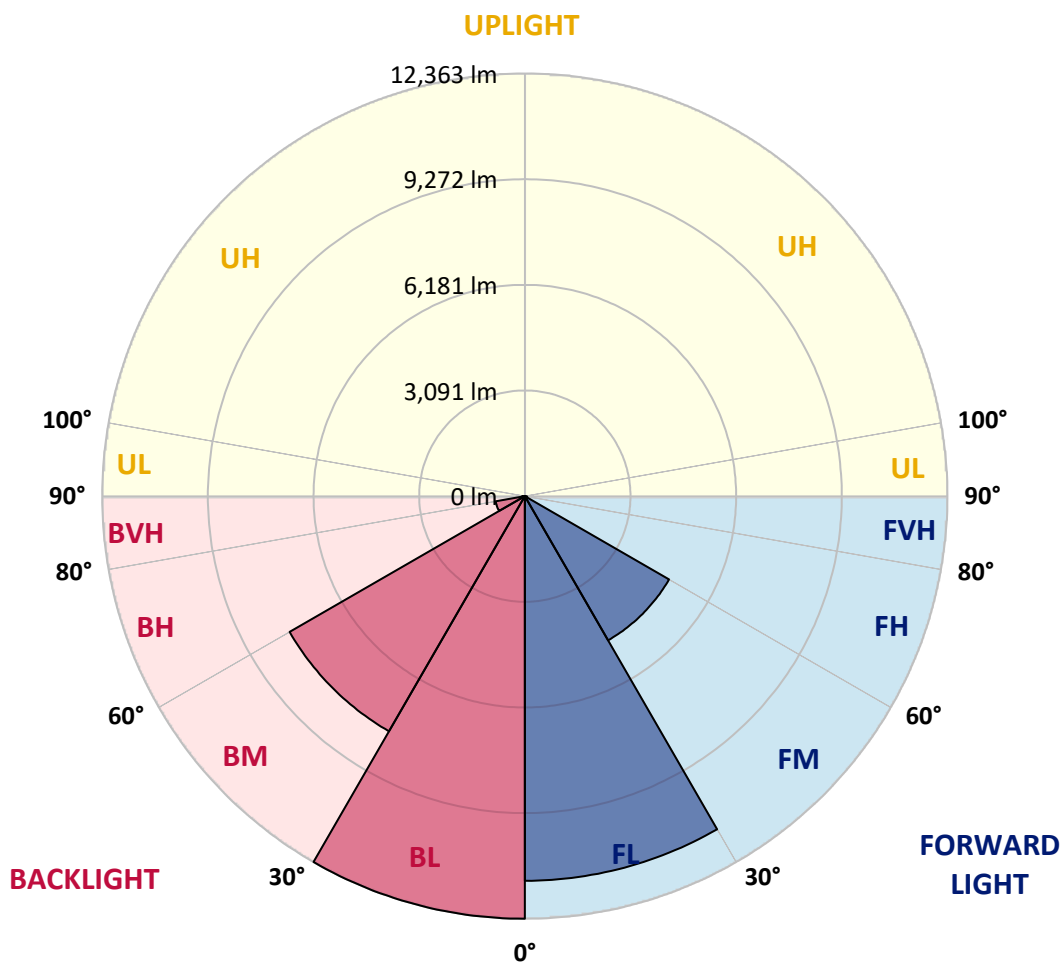
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11251.6	30.0			
FM (30°-60°)	4871.0	13.0			
FH (60°-80°)	70.5	0.2			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	12362.8	33.0	B5		
BM (30°-60°)	7944.9	21.2	B4/8500		
BH (60°-80°)	867.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	77.6	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5
2.5°	44753.3	44570.4	44310.6	44286.6	44421.3	44714.8	44527.1	44536.8	44421.3	44618.6
5°	44050.8	43877.6	43699.6	43463.9	43661.1	43786.2	43690.0	43584.2	43435.0	43627.5
7.5°	42723.0	42626.7	42362.1	42256.3	42376.6	42516.1	42309.2	42280.3	42073.5	42323.6
10°	40692.7	40654.2	40394.4	40331.8	40437.7	40649.4	40557.9	40538.7	40408.8	40384.7
12.5°	38585.4	38436.2	38113.9	38094.6	38253.4	38570.9	38325.6	38089.8	38162.0	38224.5
15°	33158.4	32999.6	33798.3	35054.0	35713.1	35689.1	35761.2	35477.4	35390.8	35419.6
17.5°	26360.3	26090.8	26379.5	28323.2	31455.3	33273.9	32773.5	32162.5	31835.3	31618.8
20°	22751.9	22766.3	22713.4	23213.8	25167.1	29314.3	29194.0	28015.3	27587.1	27409.1
22.5°	20558.0	20476.2	20360.8	20519.5	21043.9	23478.4	25109.4	24026.9	23877.7	23680.5
25°	18407.4	18407.4	18267.9	18426.7	18575.8	18609.5	20245.3	20687.9	20399.3	20399.3
27.5°	16545.5	16449.3	16386.8	16458.9	16261.7	15313.9	15520.8	17786.8	17589.5	17469.3
30°	14698.0	14669.2	14563.3	14659.6	13928.3	12860.2	12427.2	15010.8	15217.6	15174.3
32.5°	12133.7	12249.2	12720.7	12869.8	11618.9	10757.7	10344.0	12460.9	13288.4	13254.7
35°	8246.3	8342.5	8881.4	10661.5	9631.9	9016.1	8895.8	9911.0	11272.5	11402.4
37.5°	6567.2	6552.8	6706.7	7024.3	7741.1	7592.0	7558.3	7822.9	9194.1	9251.8
40°	5412.5	5393.3	5388.5	5128.7	4950.7	6312.2	6220.8	6062.0	7250.4	7365.9
42.5°	4363.7	4383.0	4397.4	3829.7	3569.9	4868.9	4816.0	4652.4	5686.8	5821.5
45°	3425.5	3420.7	3449.6	2853.0	2780.8	3112.8	3598.7	3468.8	4291.5	4435.9
47.5°	1775.3	1837.9	2227.6	2208.3	2242.0	2208.3	2723.1	2689.4	3228.3	3459.2
50°	1193.2	1212.4	1246.1	1250.9	1765.7	1626.2	1847.5	2092.8	2261.2	2617.3
52.5°	923.7	938.2	851.6	798.6	1082.5	1202.8	1212.4	1448.2	1578.1	1938.9
55°	514.8	577.3	620.6	625.4	596.6	890.1	885.3	1072.9	1173.9	1414.5
57.5°	67.4	81.8	125.1	404.1	399.3	495.5	620.6	779.4	837.1	1034.4
60°	4.8	9.6	14.4	62.5	264.6	288.7	423.4	485.9	582.1	726.5
62.5°	0.0	0.0	4.8	14.4	52.9	168.4	221.3	255.0	341.6	476.3
65°	0.0	0.0	4.8	9.6	19.2	62.5	86.6	139.5	202.1	293.5
67.5°	0.0	0.0	4.8	9.6	14.4	24.1	38.5	62.5	105.8	178.0
70°	0.0	0.0	4.8	9.6	14.4	19.2	28.9	38.5	57.7	96.2
72.5°	0.0	0.0	4.8	4.8	9.6	24.1	24.1	28.9	38.5	52.9
75°	0.0	0.0	4.8	9.6	14.4	24.1	24.1	24.1	28.9	33.7
77.5°	0.0	0.0	4.8	9.6	14.4	24.1	19.2	24.1	24.1	24.1
80°	0.0	0.0	4.8	9.6	14.4	24.1	28.9	24.1	19.2	19.2
82.5°	0.0	0.0	4.8	14.4	14.4	33.7	33.7	33.7	14.4	14.4
85°	0.0	0.0	9.6	14.4	24.1	38.5	38.5	28.9	14.4	9.6
87.5°	0.0	0.0	4.8	9.6	9.6	19.2	28.9	24.1	9.6	4.8
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°
44748.5	0°	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5
44329.9	2.5°	44685.9	44565.6	44791.8	44820.6	44724.4	44604.1	44325.1	44301.0	43815.1
43348.4	5°	43839.1	43641.9	43786.2	43882.4	43848.8	43718.9	43603.4	43497.6	43059.7
41755.9	7.5°	42261.1	42188.9	42256.3	42328.4	42468.0	42328.4	42280.3	42169.7	41736.7
40187.5	10°	40509.8	40375.1	40630.1	40596.4	40557.9	40519.5	40317.4	40336.6	39826.7
38051.3	12.5°	38359.3	38133.1	38378.5	38407.4	38378.5	38243.8	38017.7	38113.9	37647.2
35164.7	15°	35467.8	35443.7	35621.7	35737.2	35819.0	35674.6	35597.7	35645.8	35366.7
31450.4	17.5°	31917.1	32229.9	32812.0	33009.3	33014.1	33163.2	33119.9	33062.2	32855.3
27336.9	20°	27741.1	28342.4	29237.3	30156.3	30420.9	30295.8	30238.0	30343.9	30036.0
23473.6	22.5°	23887.3	24402.1	25441.3	26783.6	27558.2	27635.2	27620.8	27529.4	27409.1
20380.0	25°	20615.8	21072.8	22068.7	23295.6	24782.2	25003.5	25013.1	24984.3	24878.4
17575.1	27.5°	17854.2	18407.4	18955.9	20052.8	21635.7	22549.8	22434.4	22400.7	22362.2
15208.0	30°	15352.4	16050.0	16564.8	17248.0	18667.2	19903.7	20024.0	19966.2	19874.8
13249.9	32.5°	13370.2	13783.9	14438.2	14900.1	15920.1	17320.1	17782.0	17738.7	17656.9
11484.2	35°	11647.8	11811.4	12326.2	12840.9	13519.3	14876.1	15559.2	15463.0	15448.6
9357.7	37.5°	9593.4	10141.9	10425.7	10945.4	11421.7	12475.3	13418.3	13375.0	13379.8
7524.6	40°	7745.9	8063.5	8626.4	9064.2	9502.0	10271.8	11320.6	11349.5	11339.9
5826.3	42.5°	5946.6	6254.5	6846.3	7322.6	7712.3	8188.6	9189.3	9223.0	9266.3
4536.9	45°	4642.8	4840.0	5273.0	5768.6	6182.3	6471.0	7231.1	7447.7	7452.5
3516.9	47.5°	3603.5	3829.7	4137.6	4613.9	5018.0	5224.9	5778.2	6071.7	6057.2
2699.1	50°	2829.0	3035.8	3286.0	3661.3	4099.1	4262.7	4671.6	4960.3	4945.9
2035.1	52.5°	2165.0	2429.6	2650.9	2939.6	3367.8	3507.3	3800.8	4132.8	4084.7
1491.5	55°	1640.6	1910.0	2116.9	2357.5	2747.2	2925.2	3127.2	3391.9	3401.5
1154.7	57.5°	1236.5	1515.5	1703.1	1948.5	2242.0	2439.3	2593.2	2877.1	2872.3
789.0	60°	885.3	1125.8	1351.9	1606.9	1833.0	2059.2	2165.0	2434.4	2444.1
558.1	62.5°	639.9	866.0	1082.5	1303.8	1505.9	1727.2	1823.4	2035.1	2064.0
365.6	65°	447.4	606.2	856.4	1024.8	1250.9	1414.5	1539.6	1722.4	1756.1
216.5	67.5°	288.7	437.8	678.4	827.5	1034.4	1173.9	1303.8	1448.2	1491.5
139.5	70°	173.2	332.0	505.2	663.9	851.6	976.7	1101.8	1226.8	1250.9
67.4	72.5°	110.7	230.9	365.6	538.8	683.2	817.9	928.6	1020.0	947.8
43.3	75°	62.5	158.8	288.7	423.4	553.3	683.2	774.6	822.7	659.1
28.9	77.5°	38.5	115.5	235.7	341.6	428.2	548.5	606.2	635.1	471.5
19.2	80°	24.1	86.6	197.3	279.0	279.0	404.1	471.5	495.5	341.6
14.4	82.5°	19.2	62.5	154.0	211.7	187.6	303.1	370.5	375.3	240.6
9.6	85°	14.4	48.1	96.2	139.5	129.9	211.7	216.5	240.6	158.8
9.6	87.5°	9.6	28.9	57.7	81.8	72.2	101.0	115.5	129.9	86.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
44748.5
43435.0
42708.5
41645.3
39653.4
37512.5
35029.9
32547.4
29814.7
27178.2
24522.4
22136.1
19759.4
17440.4
15289.8
13225.8
11171.5
9121.9
7327.4
6004.3
4945.9
4089.5
3401.5
2862.6
2420.0
2054.4
1746.4
1486.6
1231.7
880.4
625.4
442.6
317.5
221.3
144.3
77.0
0.0

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