

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: P637824

Luminaire Tested: **IFLD-S-SA6E-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637824
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37313.1 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

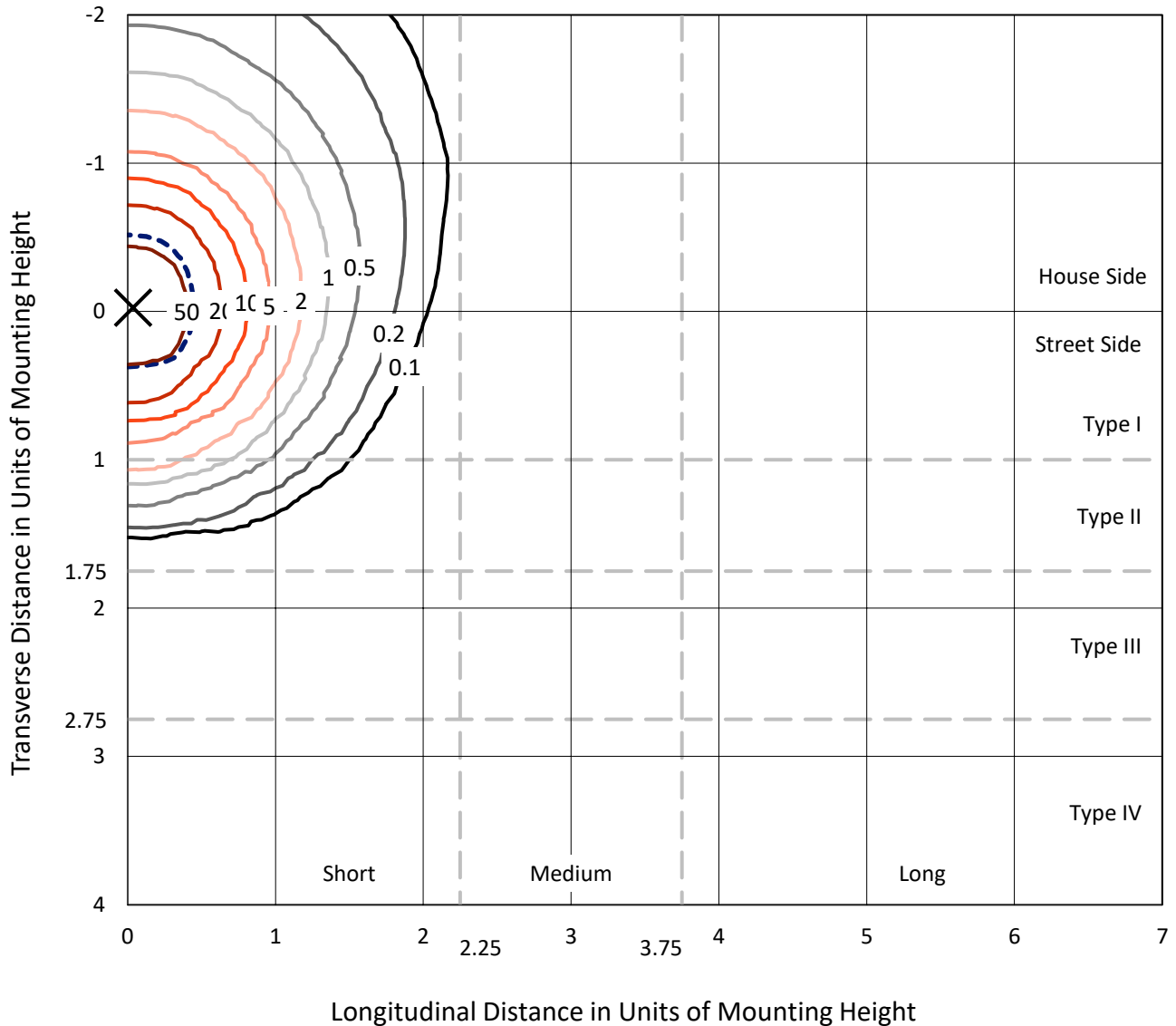
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

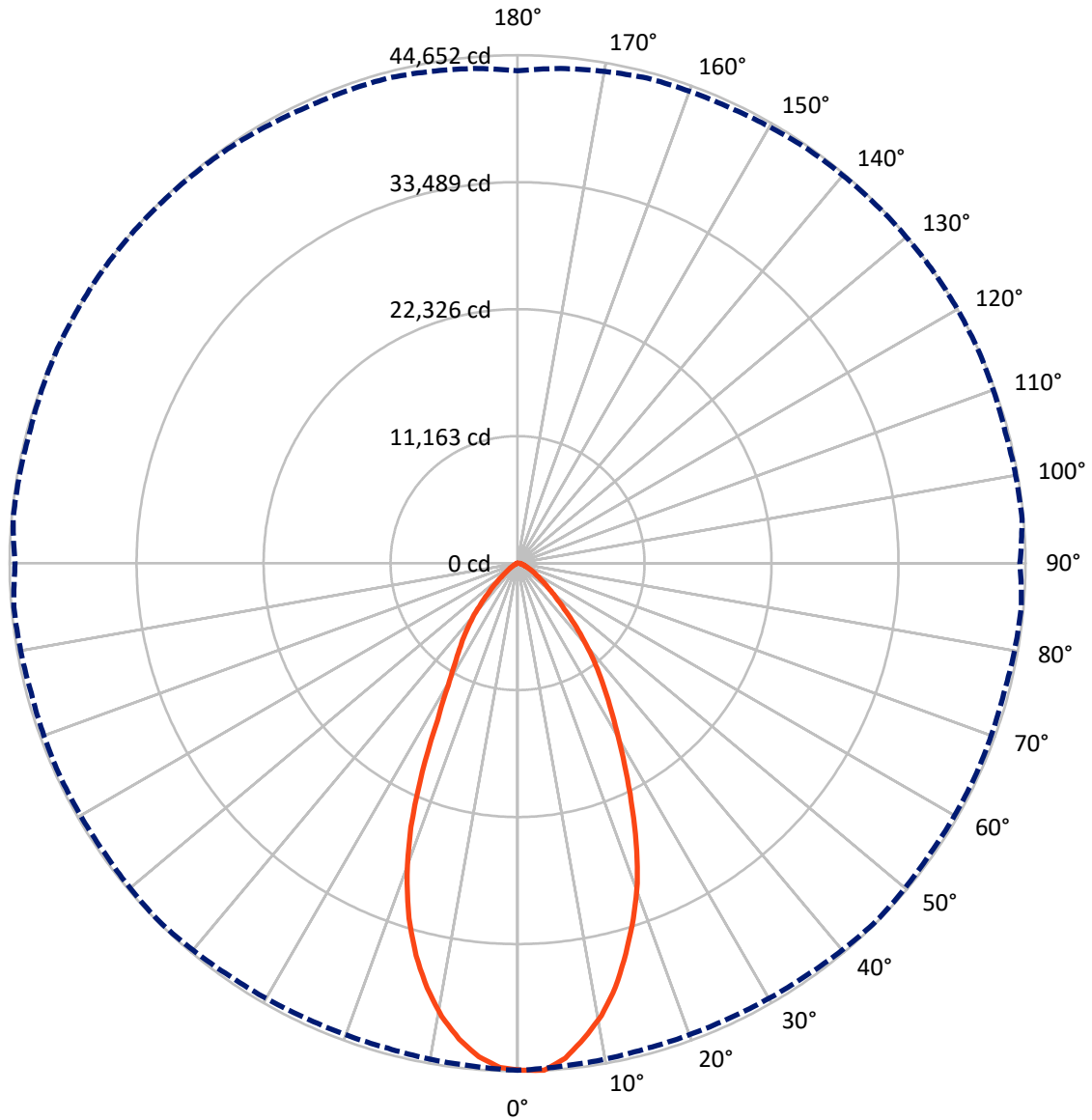
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 111.5 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	21172.9	0.0	21172.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	16140.2	0.0	16140.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	37313.1	0.0	37313.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4048.0	10.8
10°-20°	9649.6	25.9
20°-30°	9828.0	26.3
30°-40°	7328.7	19.6
40°-50°	3828.7	10.3
50°-60°	1610.4	4.3
60°-70°	657.7	1.8
70°-80°	276.8	0.7
80°-90°	85.3	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°	37313.1	100.0
0°-180°	37313.1	100.0



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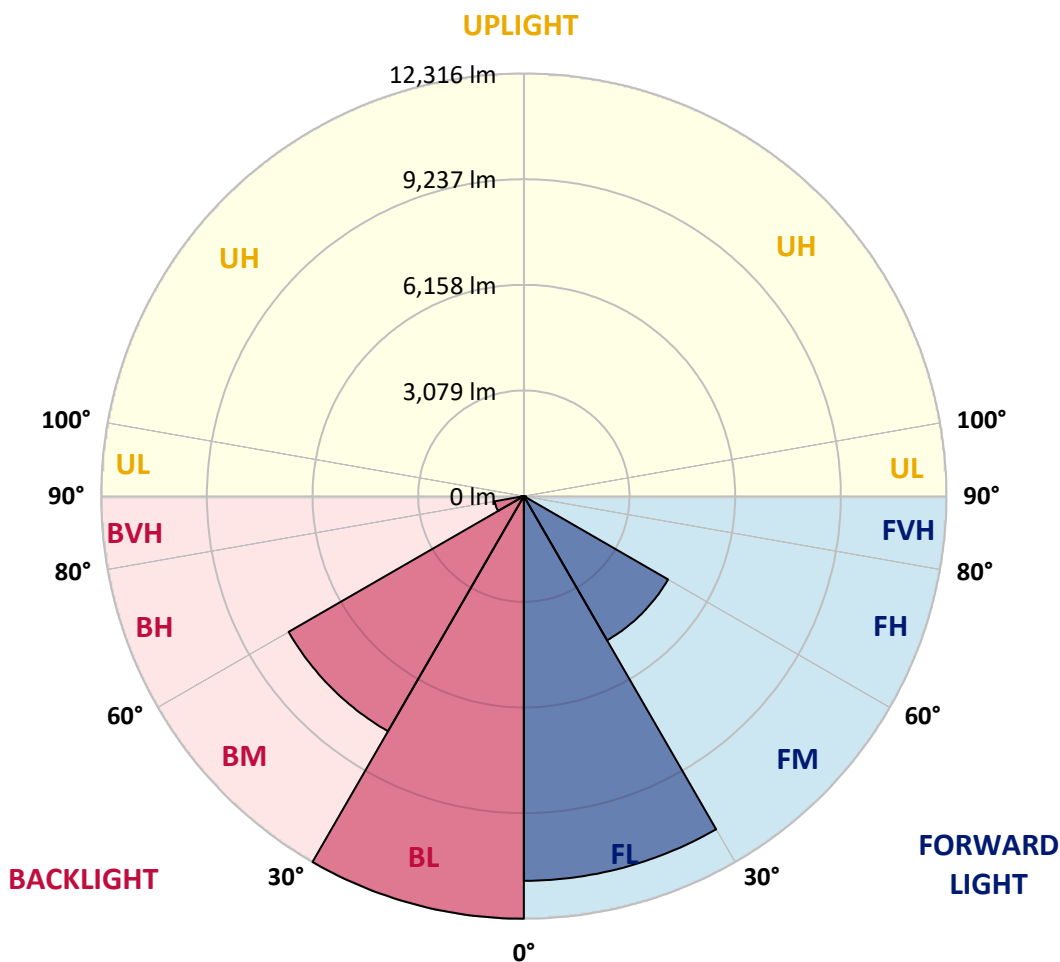
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11209.3	30.0			
FM (30°-60°)	4852.7	13.0			
FH (60°-80°)	70.2	0.2			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	12316.3	33.0	B5		
BM (30°-60°)	7915.0	21.2	B4/8500		
BH (60°-80°)	864.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	77.4	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°	44580.1	44580.1	44580.1	44580.1	44580.1	44580.1	44580.1	44580.1	44580.1	44580.1
2.5°	44584.9	44402.8	44143.9	44120.0	44254.2	44546.6	44359.6	44369.2	44254.2	44450.7
5°	43885.1	43712.6	43535.2	43300.4	43496.9	43621.5	43525.6	43420.2	43271.6	43463.3
7.5°	42562.2	42466.4	42202.8	42097.3	42217.1	42356.1	42150.0	42121.3	41915.2	42164.4
10°	40539.6	40501.2	40242.4	40180.1	40285.5	40496.4	40405.4	40386.2	40256.8	40232.8
12.5°	38440.2	38291.6	37970.5	37951.3	38109.5	38425.8	38181.4	37946.5	38018.4	38080.7
15°	33033.7	32875.5	33671.1	34922.1	35578.8	35554.8	35626.7	35343.9	35257.6	35286.4
17.5°	26261.1	25992.7	26280.3	28216.7	31336.9	33148.7	32650.2	32041.5	31715.6	31499.9
20°	22666.3	22680.7	22628.0	23126.4	25072.4	29204.0	29084.2	27909.9	27483.3	27306.0
22.5°	20480.7	20399.2	20284.2	20442.3	20964.8	23390.1	25014.9	23936.5	23787.9	23591.4
25°	18338.2	18338.2	18199.2	18357.4	18505.9	18539.5	20169.1	20610.1	20322.5	20322.5
27.5°	16483.3	16387.4	16325.1	16397.0	16200.5	15256.3	15462.4	17719.9	17523.4	17403.5
30°	14642.8	14614.0	14508.5	14604.4	13875.9	12811.8	12380.4	14954.3	15160.4	15117.3
32.5°	12088.1	12203.1	12672.8	12821.4	11575.2	10717.2	10305.0	12414.0	13238.4	13204.8
35°	8215.3	8311.1	8848.0	10621.4	9595.7	8982.2	8862.3	9873.7	11230.1	11359.5
37.5°	6542.5	6528.1	6681.5	6997.8	7712.0	7563.4	7529.9	7793.5	9159.5	9217.0
40°	5392.2	5373.0	5368.2	5109.4	4932.0	6288.5	6197.4	6039.2	7223.1	7338.2
42.5°	4347.3	4366.5	4380.8	3815.3	3556.4	4850.6	4797.8	4634.9	5665.4	5799.6
45°	3412.6	3407.9	3436.6	2842.3	2770.4	3101.1	3585.2	3455.8	4275.4	4419.2
47.5°	1768.6	1830.9	2219.2	2200.0	2233.6	2200.0	2712.9	2679.3	3216.1	3446.2
50°	1188.7	1207.8	1241.4	1246.2	1759.0	1620.0	1840.5	2085.0	2252.7	2607.4
52.5°	920.3	934.6	848.4	795.6	1078.4	1198.3	1207.8	1442.7	1572.1	1931.6
55°	512.9	575.2	618.3	623.1	594.3	886.7	881.9	1068.8	1169.5	1409.2
57.5°	67.1	81.5	124.6	402.6	397.8	493.7	618.3	776.5	834.0	1030.5
60°	4.8	9.6	14.4	62.3	263.6	287.6	421.8	484.1	580.0	723.7
62.5°	0.0	0.0	4.8	14.4	52.7	167.8	220.5	254.0	340.3	474.5
65°	0.0	0.0	4.8	9.6	19.2	62.3	86.3	139.0	201.3	292.4
67.5°	0.0	0.0	4.8	9.6	14.4	24.0	38.3	62.3	105.4	177.3
70°	0.0	0.0	4.8	9.6	14.4	19.2	28.8	38.3	57.5	95.9
72.5°	0.0	0.0	4.8	4.8	9.6	24.0	24.0	28.8	38.3	52.7
75°	0.0	0.0	4.8	9.6	14.4	24.0	24.0	24.0	28.8	33.6
77.5°	0.0	0.0	4.8	9.6	14.4	24.0	19.2	24.0	24.0	24.0
80°	0.0	0.0	4.8	9.6	14.4	24.0	28.8	24.0	19.2	19.2
82.5°	0.0	0.0	4.8	14.4	14.4	33.6	33.6	33.6	14.4	14.4
85°	0.0	0.0	9.6	14.4	24.0	38.3	38.3	28.8	14.4	9.6
87.5°	0.0	0.0	4.8	9.6	9.6	19.2	28.8	24.0	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°
44580.1	0°	44580.1	44580.1	44580.1	44580.1	44580.1	44580.1	44580.1	44580.1	44580.1
44163.1	2.5°	44517.8	44398.0	44623.2	44652.0	44556.1	44436.3	44158.3	44134.4	43650.3
43185.3	5°	43674.2	43477.7	43621.5	43717.4	43683.8	43554.4	43439.4	43333.9	42897.7
41598.8	7.5°	42102.1	42030.2	42097.3	42169.2	42308.2	42169.2	42121.3	42011.0	41579.7
40036.3	10°	40357.4	40223.2	40477.3	40443.7	40405.4	40367.0	40165.7	40184.9	39676.8
37908.2	12.5°	38214.9	37989.7	38234.1	38262.9	38234.1	38099.9	37874.6	37970.5	37505.6
35032.4	15°	35334.3	35310.4	35487.7	35602.7	35684.2	35540.4	35463.7	35511.7	35233.7
31332.1	17.5°	31797.1	32108.6	32688.6	32885.1	32889.9	33038.5	32995.3	32937.8	32731.7
27234.1	20°	27636.7	28235.8	29127.3	30042.8	30306.4	30181.8	30124.3	30229.7	29923.0
23385.3	22.5°	23797.5	24310.3	25345.6	26682.9	27454.6	27531.2	27516.9	27425.8	27306.0
20303.3	25°	20538.2	20993.5	21985.7	23207.9	24689.0	24909.5	24919.0	24890.3	24784.8
17509.0	27.5°	17787.0	18338.2	18884.6	19977.4	21554.3	22465.0	22350.0	22316.4	22278.1
15150.8	30°	15294.6	15989.6	16502.5	17183.1	18597.0	19828.8	19948.7	19891.1	19800.1
13200.0	32.5°	13319.9	13732.1	14383.9	14844.1	15860.2	17255.0	17715.1	17672.0	17590.5
11441.0	35°	11604.0	11766.9	12279.8	12792.6	13468.5	14820.1	15500.7	15404.8	15390.5
9322.5	37.5°	9557.3	10103.7	10386.5	10904.2	11378.7	12428.4	13367.8	13324.7	13329.5
7496.3	40°	7716.8	8033.1	8593.9	9030.1	9466.3	10233.1	11278.0	11306.8	11297.2
5804.4	42.5°	5924.2	6231.0	6820.5	7295.0	7683.3	8157.8	9154.7	9188.3	9231.4
4519.8	45°	4625.3	4821.8	5253.2	5746.9	6159.1	6446.6	7203.9	7419.6	7424.4
3503.7	47.5°	3590.0	3815.3	4122.0	4596.5	4999.1	5205.2	5756.4	6048.8	6034.4
2688.9	50°	2818.3	3024.4	3273.6	3647.5	4083.7	4246.6	4654.0	4941.6	4927.2
2027.5	52.5°	2156.9	2420.5	2641.0	2928.6	3355.1	3494.1	3786.5	4117.2	4069.3
1485.8	55°	1634.4	1902.8	2108.9	2348.6	2736.8	2914.2	3115.5	3379.1	3388.7
1150.3	57.5°	1231.8	1509.8	1696.7	1941.2	2233.6	2430.1	2583.5	2866.2	2861.4
786.1	60°	881.9	1121.6	1346.8	1600.9	1826.1	2051.4	2156.9	2425.3	2434.9
556.0	62.5°	637.5	862.7	1078.4	1298.9	1500.2	1720.7	1816.6	2027.5	2056.2
364.3	65°	445.8	603.9	853.2	1020.9	1246.2	1409.2	1533.8	1715.9	1749.5
215.7	67.5°	287.6	436.2	675.8	824.4	1030.5	1169.5	1298.9	1442.7	1485.8
139.0	70°	172.5	330.7	503.3	661.4	848.4	973.0	1097.6	1222.2	1246.2
67.1	72.5°	110.2	230.1	364.3	536.8	680.6	814.8	925.1	1016.1	944.2
43.1	75°	62.3	158.2	287.6	421.8	551.2	680.6	771.7	819.6	656.6
28.8	77.5°	38.3	115.0	234.9	340.3	426.6	546.4	603.9	632.7	469.7
19.2	80°	24.0	86.3	196.5	278.0	278.0	402.6	469.7	493.7	340.3
14.4	82.5°	19.2	62.3	153.4	210.9	186.9	302.0	369.1	373.9	239.7
9.6	85°	14.4	47.9	95.9	139.0	129.4	210.9	215.7	239.7	158.2
9.6	87.5°	9.6	28.8	57.5	81.5	71.9	100.7	115.0	129.4	86.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
44580.1
43271.6
42547.9
41488.6
39504.3
37371.4
34898.2
32424.9
29702.5
27075.9
24430.1
22052.8
19685.0
17374.8
15232.3
13176.1
11129.4
9087.6
7299.8
5981.7
4927.2
4074.1
3388.7
2851.9
2410.9
2046.6
1739.9
1481.1
1227.0
877.1
623.1
441.0
316.3
220.5
143.8
76.7
0.0

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