

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: P638470

Luminaire Tested: **IFLD-L-SA7C-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638470
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33421.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

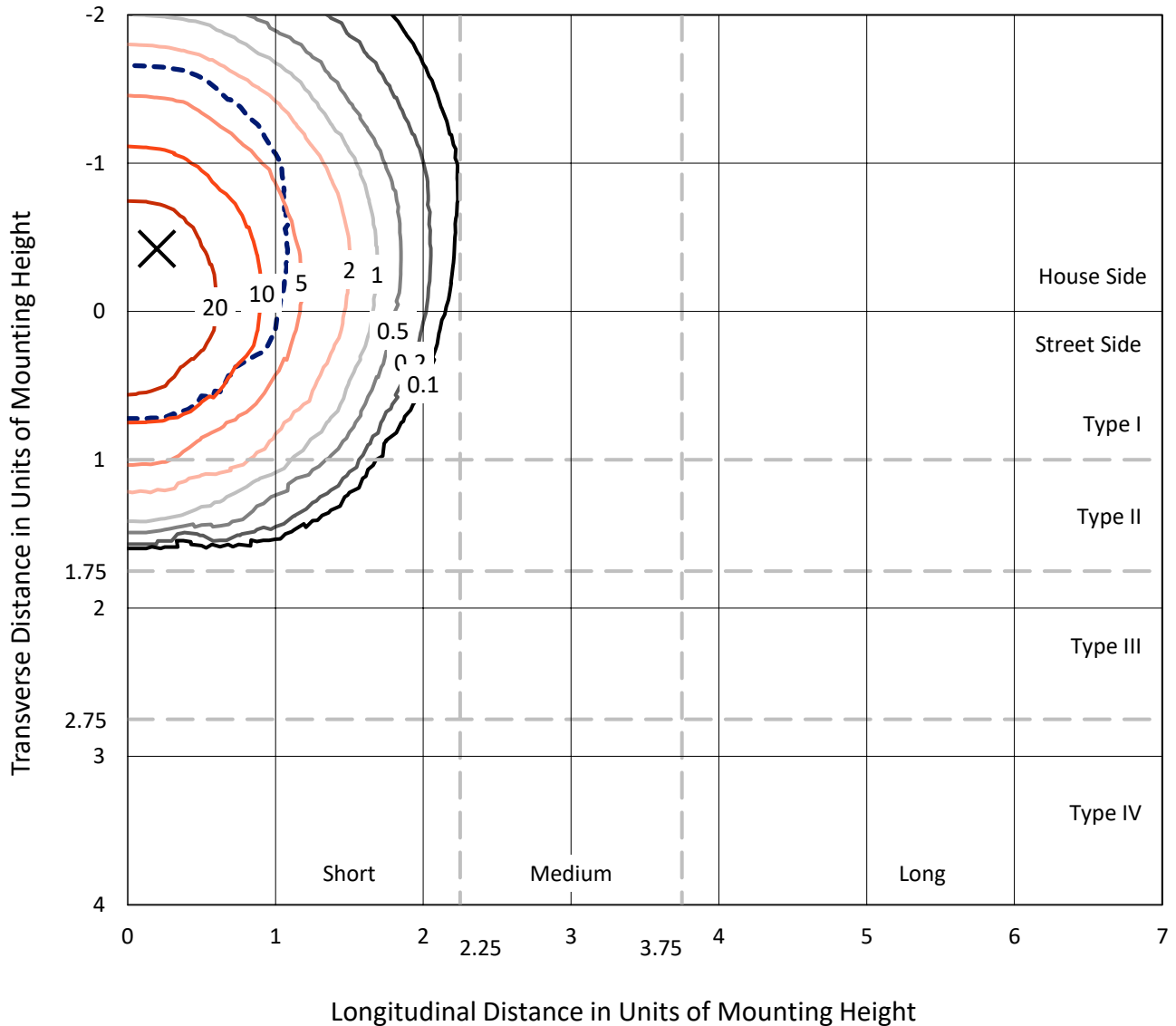
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

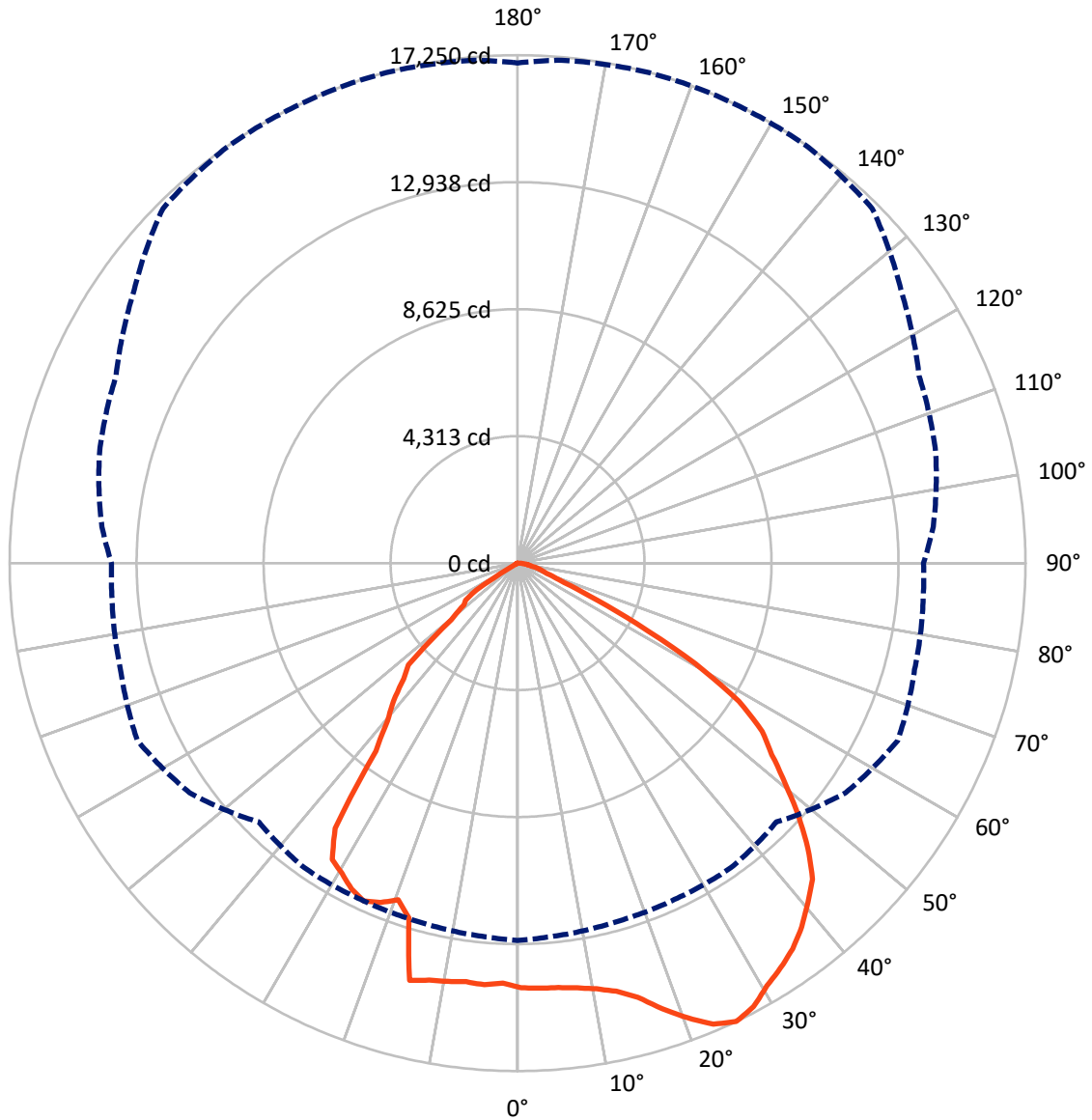
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.1 fc
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-L-SA7C-750-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20691.4	0.0	20691.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	12730.2	0.0	12730.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	33421.7	0.0	33421.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1383.5	4.1
10°-20°	4224.4	12.6
20°-30°	6678.6	20.0
30°-40°	7544.0	22.6
40°-50°	7065.1	21.1
50°-60°	4870.9	14.6
60°-70°	1308.6	3.9
70°-80°	272.7	0.8
80°-90°	73.8	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°	33421.7	100.0
0°-180°	33421.7	100.0



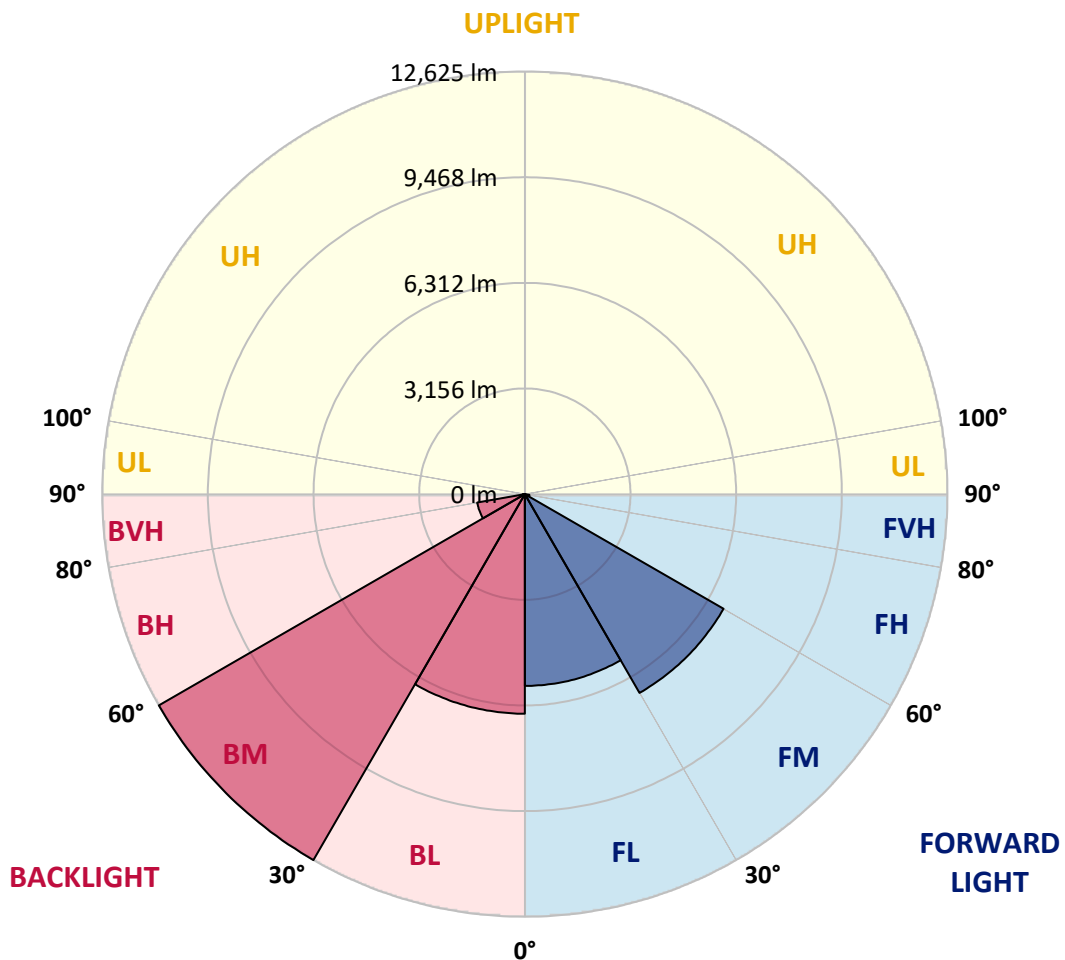
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5727.4	17.1			
FM (30°-60°)	6855.5	20.5			
FH (60°-80°)	137.4	0.4			G0/660
FVH (80°-90°)	9.9	0.0			G0/10
BL (0°-30°)	6559.1	19.6	B5		
BM (30°-60°)	12624.5	37.8	B5		
BH (60°-80°)	1444.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	63.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14420.9	14420.9	14420.9	14420.9	14420.9	14420.9	14420.9	14420.9	14420.9	14420.9
2.5°	14484.7	14391.4	14303.0	14273.5	14396.3	14528.9	14445.4	14450.3	14420.9	14474.9
5°	14592.8	14465.1	14406.1	14361.9	14381.6	14519.1	14401.2	14445.4	14396.3	14460.2
7.5°	14553.5	14465.1	14406.1	14322.6	14386.5	14548.6	14435.6	14440.5	14416.0	14474.9
10°	14528.9	14465.1	14391.4	14401.2	14474.9	14612.4	14524.0	14573.1	14538.7	14573.1
12.5°	14587.9	14519.1	14479.8	14479.8	14543.7	14700.8	14656.6	14700.8	14686.1	14715.6
15°	14032.8	14096.7	14470.0	14637.0	14764.7	14921.9	14902.2	14946.4	14956.2	15000.4
17.5°	11837.3	11773.4	11744.0	12603.5	14887.5	15373.7	15359.0	15354.1	15305.0	15270.6
20°	12127.1	12102.5	12068.1	12132.0	12387.4	15609.5	15707.7	15103.6	14926.8	14912.0
22.5°	12588.8	12549.5	12421.8	12426.7	12505.3	13571.1	15221.5	14671.4	14612.4	14578.0
25°	12814.7	12736.1	12633.0	12603.5	12628.1	12431.6	13595.7	14249.0	13959.2	13826.5
27.5°	12416.9	12421.8	12338.3	12416.9	12323.5	11439.4	10943.4	13423.8	13414.0	13355.0
30°	12117.3	12102.5	12004.3	12102.5	11459.1	10471.8	10260.6	12520.0	12416.9	12338.3
32.5°	11198.8	11208.6	11493.5	11876.6	10820.6	10039.6	9401.1	11184.0	12161.5	12117.3
35°	8011.0	8030.7	9042.5	10933.5	9852.9	9180.0	9130.9	9666.3	11758.7	11778.3
37.5°	7711.4	7711.4	7686.9	7996.3	9091.6	8831.3	8929.5	8875.5	10771.4	10820.6
40°	7495.3	7451.1	7416.7	6930.5	6321.4	8585.7	8654.5	8408.9	10182.0	10191.9
42.5°	7235.0	7185.9	7195.7	6296.8	5658.3	7976.7	7785.1	7456.0	9199.7	9209.5
45°	6758.6	6842.1	6901.0	5511.0	5461.9	5697.6	7181.0	6974.7	8536.6	8718.3
47.5°	3438.2	3511.9	5388.2	5068.9	5181.9	5064.0	6066.0	6070.9	7102.4	7706.5
50°	3119.0	3099.3	3104.2	2956.9	4784.0	4096.4	4386.2	5565.0	5687.8	6552.3
52.5°	2907.7	2902.8	2603.2	2313.4	3006.0	3605.2	3182.8	4027.6	4229.0	5550.3
55°	2151.3	2308.5	2053.1	2175.9	1881.2	2888.1	2873.4	3634.7	3703.5	4450.0
57.5°	19.6	24.6	58.9	1655.3	1301.6	1444.1	1984.3	2480.4	2603.2	3467.7
60°	4.9	9.8	24.6	49.1	844.8	889.0	1326.2	1434.2	1616.0	2067.8
62.5°	0.0	0.0	9.8	24.6	44.2	363.5	422.4	461.7	712.2	1056.0
65°	0.0	0.0	4.9	14.7	24.6	58.9	103.1	216.1	309.4	383.1
67.5°	0.0	0.0	4.9	9.8	19.6	29.5	58.9	83.5	132.6	225.9
70°	0.0	0.0	4.9	9.8	14.7	24.6	39.3	58.9	78.6	113.0
72.5°	0.0	0.0	4.9	9.8	9.8	29.5	29.5	44.2	58.9	73.7
75°	0.0	0.0	4.9	4.9	9.8	19.6	29.5	34.4	39.3	58.9
77.5°	0.0	0.0	4.9	9.8	14.7	19.6	24.6	39.3	34.4	34.4
80°	0.0	0.0	4.9	14.7	14.7	24.6	29.5	39.3	24.6	24.6
82.5°	0.0	0.0	4.9	19.6	14.7	49.1	49.1	54.0	19.6	19.6
85°	0.0	0.0	14.7	9.8	29.5	49.1	44.2	29.5	24.6	14.7
87.5°	0.0	0.0	4.9	4.9	9.8	14.7	34.4	29.5	9.8	9.8
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°
14420.9	0°	14420.9	14420.9	14420.9	14420.9	14420.9	14420.9	14420.9	14420.9	14420.9
14332.5	2.5°	14528.9	14465.1	14597.7	14582.9	14519.1	14489.6	14455.2	14425.8	14209.7
14342.3	5°	14533.8	14435.6	14597.7	14568.2	14558.4	14509.3	14479.8	14524.0	14327.5
14381.6	7.5°	14533.8	14435.6	14612.4	14622.2	14607.5	14568.2	14563.3	14592.8	14430.7
14450.3	10°	14632.1	14592.8	14740.1	14754.9	14735.2	14725.4	14700.8	14681.2	14509.3
14686.1	12.5°	14838.4	14759.8	14926.8	14971.0	14956.2	14980.8	14921.9	14951.3	14774.5
14926.8	15°	15088.9	15093.8	15221.5	15319.7	15309.9	15388.5	15300.1	15378.7	15250.9
15201.8	17.5°	15472.0	15526.0	15707.7	15855.1	15909.1	15968.1	15909.1	15933.7	15751.9
14897.3	20°	15069.2	15270.6	16144.9	16415.0	16528.0	16582.0	16483.8	16513.3	16331.5
14524.0	22.5°	14705.7	14966.1	15742.1	16586.9	16935.7	17043.7	17009.3	17004.4	16935.7
13787.2	25°	14170.4	14695.9	15044.7	15938.6	17033.9	17230.4	17250.0	17245.1	17142.0
13335.4	27.5°	13512.2	13630.1	14533.8	15079.0	16346.3	17092.8	17063.4	16920.9	16783.4
12397.2	30°	12672.3	13207.7	13615.3	14484.7	15457.2	16670.4	16670.4	16562.4	16419.9
12063.2	32.5°	12245.0	12937.5	13315.7	13630.1	14460.2	16198.9	16395.4	16282.4	16169.4
11802.9	35°	12019.0	12122.2	13006.3	13291.2	13993.5	15290.2	16085.9	15973.0	15889.5
11110.4	37.5°	11522.9	11763.6	12176.2	12937.5	13153.6	14548.6	15673.4	15614.4	15516.2
10211.5	40°	10417.8	11061.2	11694.8	12416.9	12642.8	13595.7	15172.4	15196.9	15064.3
9253.7	42.5°	9764.5	10201.7	11193.9	11680.1	12289.2	12981.7	14686.1	14725.4	14632.1
8767.5	45°	8998.3	9484.6	10182.0	11066.1	11896.2	12136.9	13826.5	14239.1	14160.5
7799.8	47.5°	8295.9	8688.9	9543.5	10437.4	11355.9	11321.6	12839.3	13615.3	13507.3
7058.2	50°	7298.8	7986.5	8389.2	9209.5	10579.9	10673.2	11788.2	12883.5	12795.1
5997.2	52.5°	6154.4	7018.9	7790.0	8541.5	9794.0	10015.0	10810.7	12136.9	12078.0
4582.7	55°	5378.4	6007.1	6876.4	7480.6	8841.1	9430.5	10078.9	11424.7	11395.2
3767.3	57.5°	3826.2	5039.4	5756.6	6601.4	7318.5	8384.3	8865.7	9975.7	9700.7
2087.5	60°	2593.4	3163.2	4037.4	4946.1	5427.5	6493.3	6940.3	7829.3	7755.6
1247.6	62.5°	1370.4	1895.9	2519.7	2976.5	3325.2	4361.6	4548.3	5506.1	5481.5
501.0	65°	604.1	800.6	1365.5	1601.2	1959.8	2441.1	2603.2	2947.0	2863.5
245.6	67.5°	314.4	476.4	771.1	948.0	1193.6	1375.3	1507.9	1616.0	1684.7
162.1	70°	191.6	348.7	476.4	658.2	820.3	967.6	1070.8	1218.1	1306.5
83.5	72.5°	142.4	221.0	329.1	505.9	594.3	766.2	869.4	977.4	1056.0
68.8	75°	78.6	147.4	265.2	397.9	476.4	623.8	717.1	790.8	815.3
39.3	77.5°	49.1	113.0	221.0	309.4	373.3	505.9	481.4	550.1	609.1
29.5	80°	34.4	83.5	171.9	255.4	260.3	324.2	383.1	442.1	481.4
19.6	82.5°	24.6	68.8	127.7	196.5	171.9	250.5	299.6	343.8	250.5
14.7	85°	19.6	49.1	63.9	117.9	98.2	176.8	152.3	147.4	98.2
9.8	87.5°	14.7	24.6	44.2	54.0	39.3	39.3	49.1	58.9	49.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14420.9
14062.3
14160.5
14244.0
14366.8
14617.3
15039.7
15594.8
16203.8
16714.6
16984.8
16675.3
16365.9
16076.1
15771.6
15417.9
15034.8
14622.2
14170.4
13585.9
12809.8
12117.3
11429.6
9671.2
7760.5
5486.4
2829.2
1684.7
1311.4
1070.8
800.6
618.9
486.3
181.7
98.2
49.1
0.0

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