

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: P638529

Luminaire Tested: **IFLD-L-SA7D-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638529
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26428.3 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

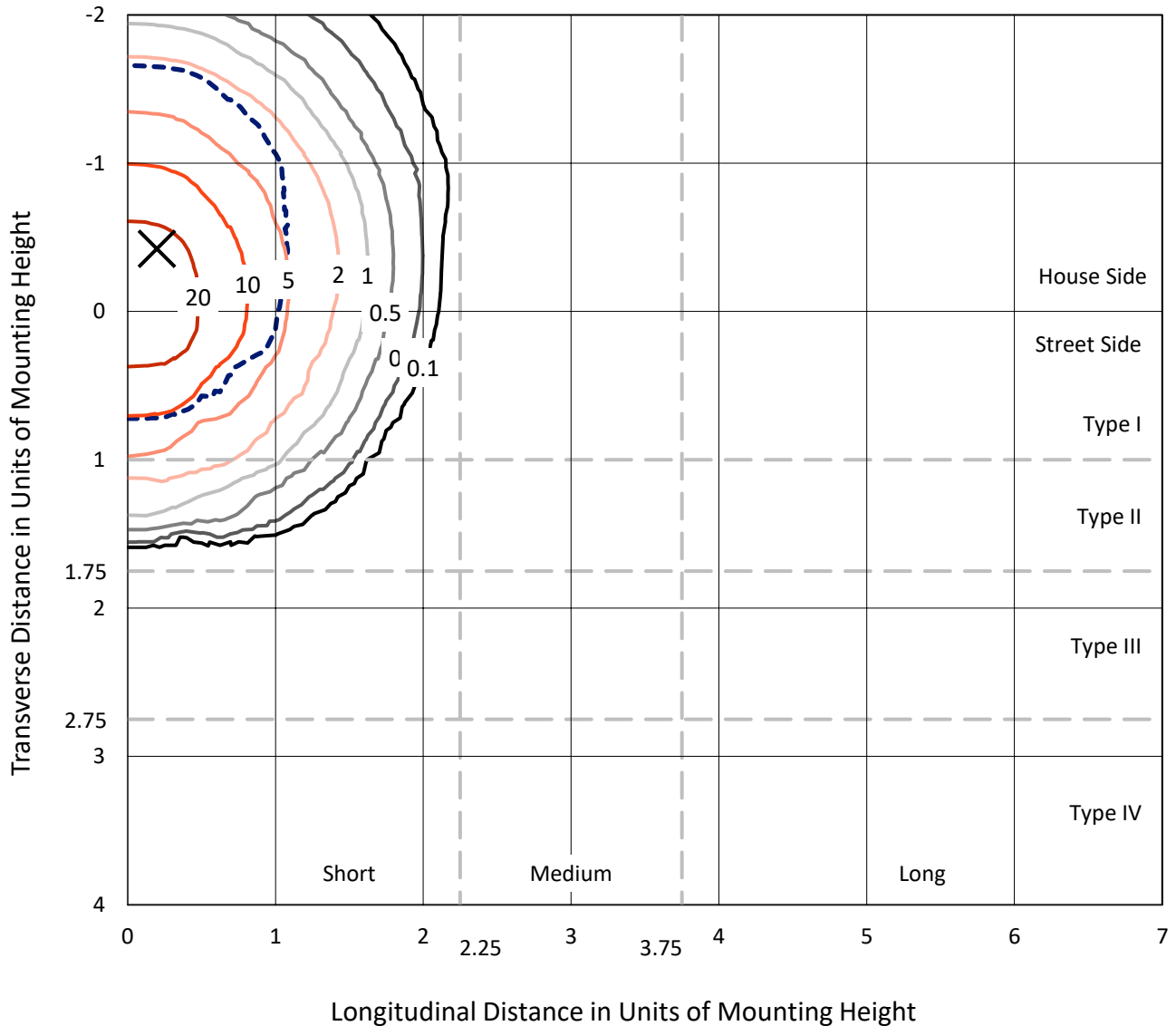
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

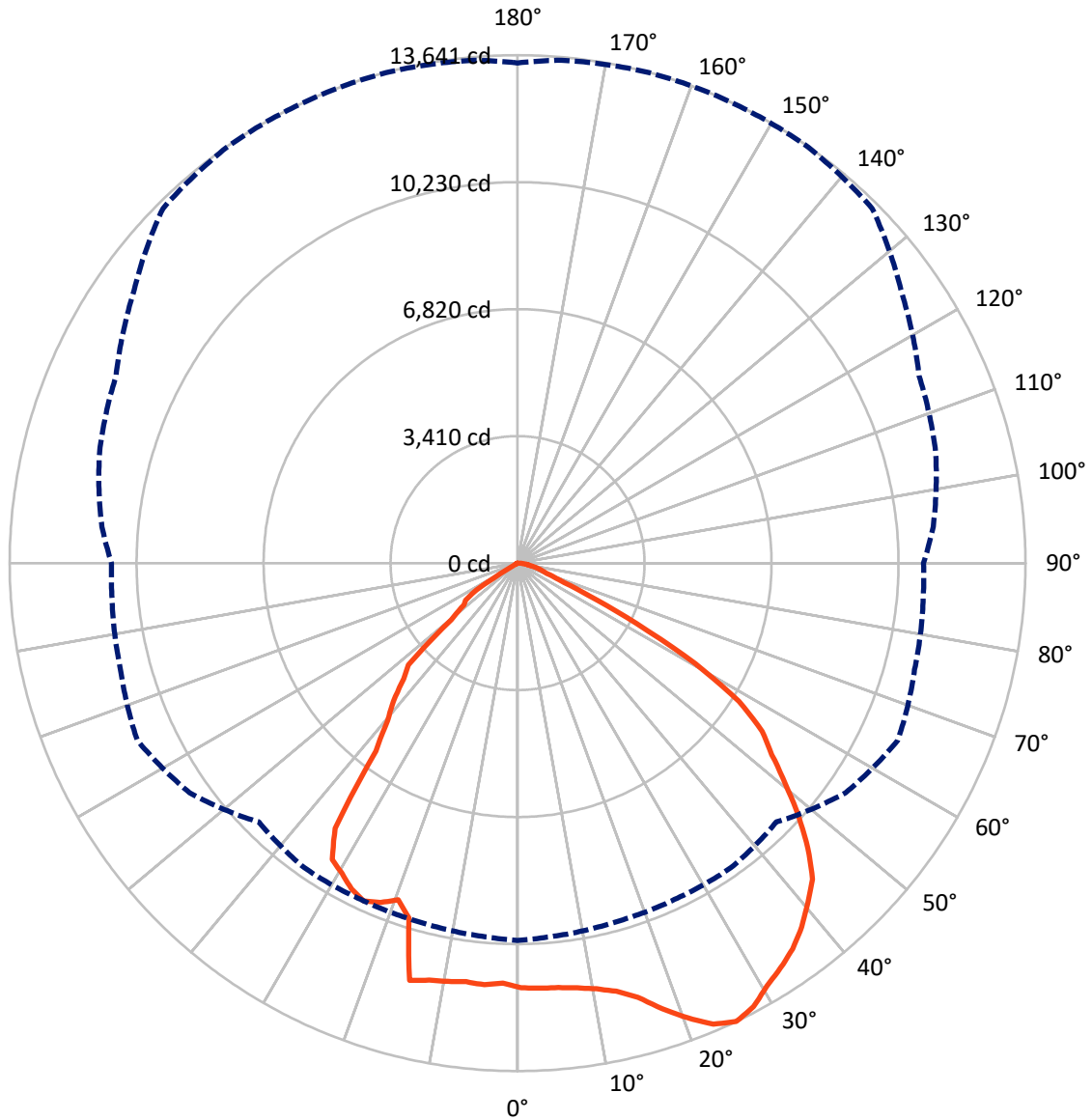
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.5 fc
 Type I - Short - N/A

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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	16361.8	0.0	16361.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10066.5	0.0	10066.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	26428.3	0.0	26428.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.0	4.1
10°-20°	3340.5	12.6
20°-30°	5281.1	20.0
30°-40°	5965.5	22.6
40°-50°	5586.8	21.1
50°-60°	3851.7	14.6
60°-70°	1034.8	3.9
70°-80°	215.7	0.8
80°-90°	58.3	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°	26428.3	100.0
0°-180°	26428.3	100.0



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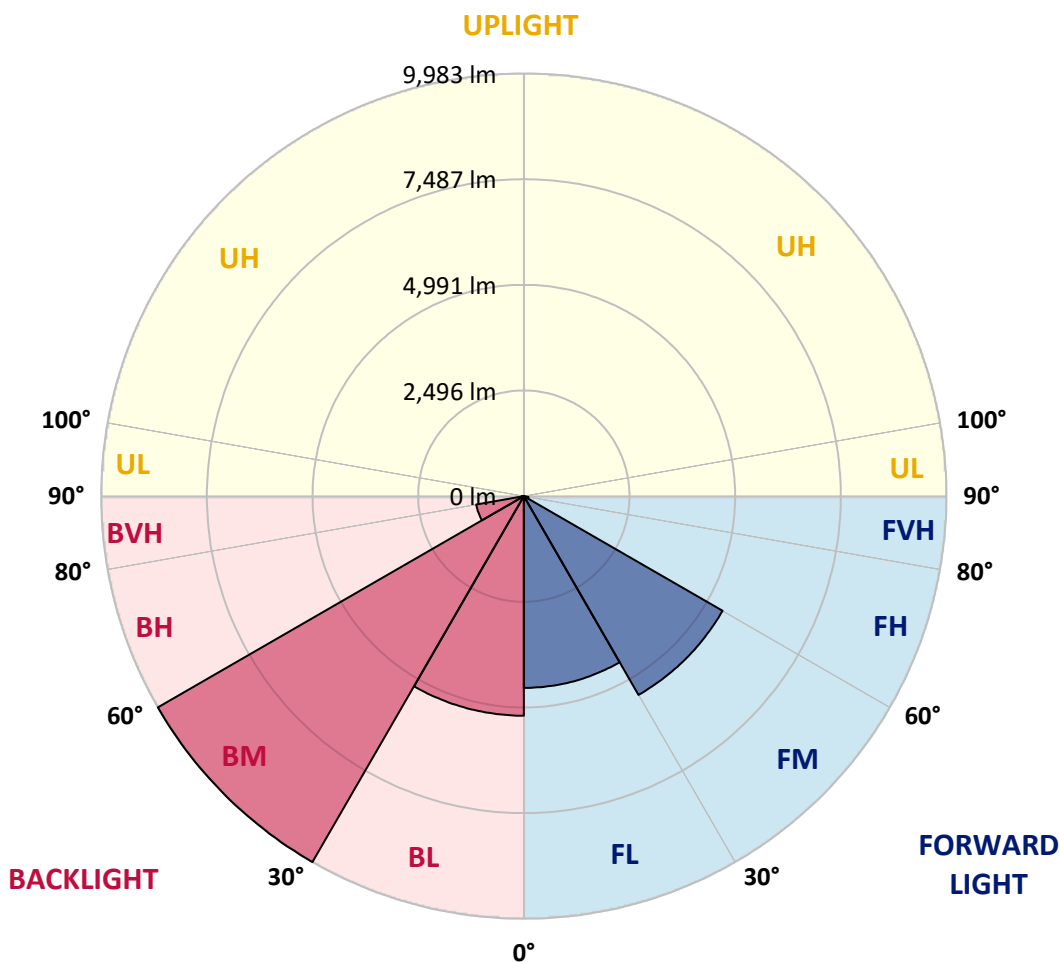
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4529.0	17.1			
FM (30°-60°)	5421.0	20.5			
FH (60°-80°)	108.6	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	5186.6	19.6	B5		
BM (30°-60°)	9982.9	37.8	B5		
BH (60°-80°)	1141.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	50.5	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°	11403.3	11403.3	11403.3	11403.3	11403.3	11403.3	11403.3	11403.3	11403.3	11403.3
2.5°	11453.8	11380.0	11310.1	11286.8	11383.9	11488.8	11422.8	11426.6	11403.3	11446.1
5°	11539.3	11438.3	11391.7	11356.7	11372.3	11481.0	11387.8	11422.8	11383.9	11434.4
7.5°	11508.2	11438.3	11391.7	11325.7	11376.1	11504.3	11415.0	11418.9	11399.5	11446.1
10°	11488.8	11438.3	11380.0	11387.8	11446.1	11554.8	11484.9	11523.7	11496.6	11523.7
12.5°	11535.4	11481.0	11449.9	11449.9	11500.4	11624.7	11589.8	11624.7	11613.1	11636.4
15°	11096.5	11147.0	11442.2	11574.2	11675.2	11799.5	11784.0	11818.9	11826.7	11861.6
17.5°	9360.4	9309.9	9286.6	9966.3	11772.3	12156.8	12145.2	12141.3	12102.4	12075.3
20°	9589.5	9570.1	9542.9	9593.4	9795.4	12343.3	12420.9	11943.2	11803.4	11791.7
22.5°	9954.6	9923.5	9822.6	9826.4	9888.6	10731.4	12036.4	11601.4	11554.8	11527.6
25°	10133.3	10071.1	9989.6	9966.3	9985.7	9830.3	10750.8	11267.4	11038.2	10933.4
27.5°	9818.7	9822.6	9756.5	9818.7	9744.9	9045.8	8653.5	10614.9	10607.1	10560.5
30°	9581.8	9570.1	9492.4	9570.1	9061.3	8280.6	8113.6	9900.2	9818.7	9756.5
32.5°	8855.5	8863.2	9088.5	9391.4	8556.4	7938.8	7433.9	8843.8	9616.7	9581.8
35°	6334.8	6350.3	7150.4	8645.7	7791.2	7259.1	7220.3	7643.7	9298.2	9313.8
37.5°	6097.8	6097.8	6078.4	6323.1	7189.2	6983.4	7061.1	7018.3	8517.5	8556.4
40°	5926.9	5892.0	5864.8	5480.3	4998.7	6789.2	6843.6	6649.4	8051.5	8059.2
42.5°	5721.1	5682.2	5690.0	4979.2	4474.3	6307.6	6156.1	5895.9	7274.7	7282.4
45°	5344.3	5410.4	5457.0	4357.8	4319.0	4505.4	5678.4	5515.2	6750.3	6894.0
47.5°	2718.8	2777.0	4260.7	4008.3	4097.6	4004.4	4796.7	4800.6	5616.2	6093.9
50°	2466.3	2450.8	2454.7	2338.1	3783.0	3239.2	3468.4	4400.5	4497.6	5181.2
52.5°	2299.3	2295.4	2058.5	1829.3	2377.0	2850.8	2516.8	3184.9	3344.1	4388.9
55°	1701.2	1825.5	1623.5	1720.6	1487.6	2283.8	2272.1	2874.1	2928.5	3518.9
57.5°	15.5	19.4	46.6	1308.9	1029.3	1141.9	1569.1	1961.4	2058.5	2742.1
60°	3.9	7.8	19.4	38.8	668.0	703.0	1048.7	1134.1	1277.8	1635.2
62.5°	0.0	0.0	7.8	19.4	35.0	287.4	334.0	365.1	563.2	835.1
65°	0.0	0.0	3.9	11.7	19.4	46.6	81.6	170.9	244.7	302.9
67.5°	0.0	0.0	3.9	7.8	15.5	23.3	46.6	66.0	104.9	178.7
70°	0.0	0.0	3.9	7.8	11.7	19.4	31.1	46.6	62.1	89.3
72.5°	0.0	0.0	3.9	7.8	7.8	23.3	23.3	35.0	46.6	58.3
75°	0.0	0.0	3.9	3.9	7.8	15.5	23.3	27.2	31.1	46.6
77.5°	0.0	0.0	3.9	7.8	11.7	15.5	19.4	31.1	27.2	27.2
80°	0.0	0.0	3.9	11.7	11.7	19.4	23.3	31.1	19.4	19.4
82.5°	0.0	0.0	3.9	15.5	11.7	38.8	38.8	42.7	15.5	15.5
85°	0.0	0.0	11.7	7.8	23.3	38.8	35.0	23.3	19.4	11.7
87.5°	0.0	0.0	3.9	3.9	7.8	11.7	27.2	23.3	7.8	7.8
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°
11403.3	0°	11403.3	11403.3	11403.3	11403.3	11403.3	11403.3	11403.3	11403.3	11403.3
11333.4	2.5°	11488.8	11438.3	11543.2	11531.5	11481.0	11457.7	11430.5	11407.2	11236.3
11341.2	5°	11492.7	11415.0	11543.2	11519.9	11512.1	11473.2	11449.9	11484.9	11329.5
11372.3	7.5°	11492.7	11415.0	11554.8	11562.6	11550.9	11519.9	11516.0	11539.3	11411.1
11426.6	10°	11570.3	11539.3	11655.8	11667.4	11651.9	11644.1	11624.7	11609.2	11473.2
11613.1	12.5°	11733.5	11671.3	11803.4	11838.3	11826.7	11846.1	11799.5	11822.8	11683.0
11803.4	15°	11931.6	11935.4	12036.4	12114.1	12106.3	12168.5	12098.6	12160.7	12059.7
12020.9	17.5°	12234.5	12277.2	12420.9	12537.5	12580.2	12626.8	12580.2	12599.6	12455.9
11780.1	20°	11916.0	12075.3	12766.6	12980.2	13069.6	13112.3	13034.6	13057.9	12914.2
11484.9	22.5°	11628.6	11834.5	12448.1	13116.2	13391.9	13477.4	13450.2	13446.3	13391.9
10902.3	25°	11205.3	11620.8	11896.6	12603.5	13469.6	13625.0	13640.5	13636.6	13555.1
10545.0	27.5°	10684.8	10778.0	11492.7	11923.8	12925.9	13516.2	13492.9	13380.3	13271.5
9803.1	30°	10020.6	10444.0	10766.4	11453.8	12222.9	13182.2	13182.2	13096.7	12984.1
9539.0	32.5°	9682.7	10230.4	10529.4	10778.0	11434.4	12809.3	12964.7	12875.4	12786.0
9333.2	35°	9504.1	9585.6	10284.8	10510.0	11065.4	12090.8	12720.0	12630.7	12564.6
8785.5	37.5°	9111.8	9302.1	9628.4	10230.4	10401.3	11504.3	12393.7	12347.1	12269.5
8074.8	40°	8237.9	8746.7	9247.7	9818.7	9997.3	10750.8	11997.6	12017.0	11912.1
7317.4	42.5°	7721.3	8067.0	8851.6	9236.1	9717.7	10265.3	11613.1	11644.1	11570.3
6932.9	45°	7115.4	7499.9	8051.5	8750.6	9407.0	9597.3	10933.4	11259.6	11197.5
6167.7	47.5°	6560.0	6870.7	7546.6	8253.4	8979.7	8952.5	10152.7	10766.4	10680.9
5581.3	50°	5771.6	6315.3	6633.8	7282.4	8366.1	8439.9	9321.5	10187.7	10117.7
4742.3	52.5°	4866.6	5550.2	6160.0	6754.2	7744.6	7919.4	8548.6	9597.3	9550.7
3623.7	55°	4252.9	4750.1	5437.6	5915.3	6991.1	7457.2	7969.9	9034.1	9010.8
2979.0	57.5°	3025.6	3985.0	4552.0	5220.1	5787.1	6629.9	7010.6	7888.3	7670.8
1650.7	60°	2050.7	2501.3	3192.6	3911.2	4291.8	5134.6	5488.0	6191.0	6132.8
986.5	62.5°	1083.6	1499.2	1992.5	2353.7	2629.4	3449.0	3596.6	4353.9	4334.5
396.2	65°	477.7	633.1	1079.7	1266.2	1549.7	1930.3	2058.5	2330.4	2264.4
194.2	67.5°	248.6	376.7	609.8	749.6	943.8	1087.5	1192.4	1277.8	1332.2
128.2	70°	151.5	275.8	376.7	520.5	648.6	765.1	846.7	963.2	1033.1
66.0	72.5°	112.6	174.8	260.2	400.0	470.0	605.9	687.5	772.9	835.1
54.4	75°	62.1	116.5	209.7	314.6	376.7	493.3	567.1	625.3	644.7
31.1	77.5°	38.8	89.3	174.8	244.7	295.2	400.0	380.6	435.0	481.6
23.3	80°	27.2	66.0	135.9	202.0	205.9	256.3	302.9	349.6	380.6
15.5	82.5°	19.4	54.4	101.0	155.4	135.9	198.1	236.9	271.9	198.1
11.7	85°	15.5	38.8	50.5	93.2	77.7	139.8	120.4	116.5	77.7
7.8	87.5°	11.7	19.4	35.0	42.7	31.1	31.1	38.8	46.6	38.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11403.3
11119.8
11197.5
11263.5
11360.6
11558.7
11892.7
12331.6
12813.2
13217.1
13430.8
13186.1
12941.4
12712.2
12471.4
12191.8
11888.8
11562.6
11205.3
10743.1
10129.4
9581.8
9038.0
7647.5
6136.7
4338.4
2237.2
1332.2
1037.0
846.7
633.1
489.4
384.5
143.7
77.7
38.8
0.0

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