

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: P638360

Luminaire Tested: **IFLD-L-SA8D-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638360
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34361.9 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

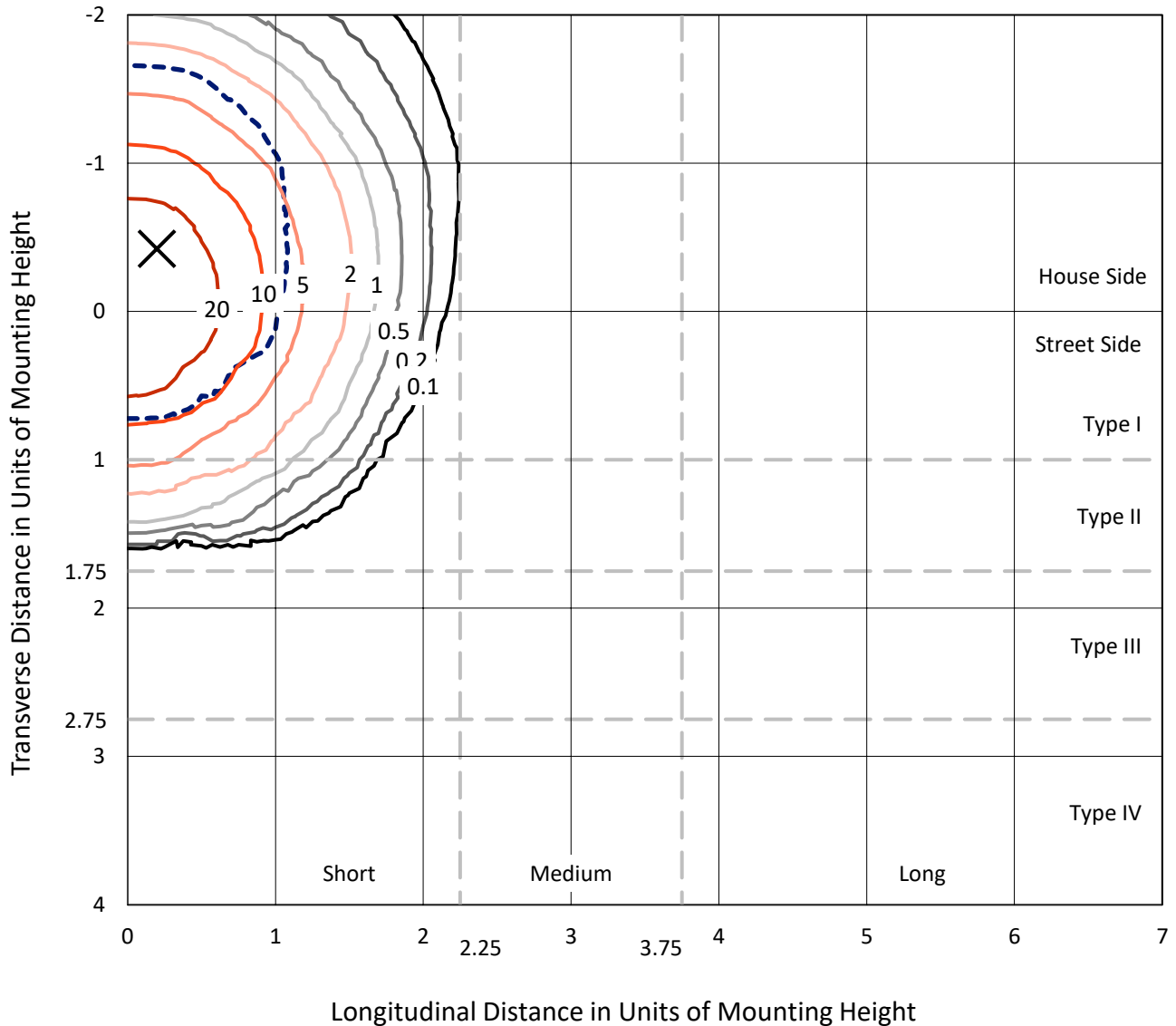
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

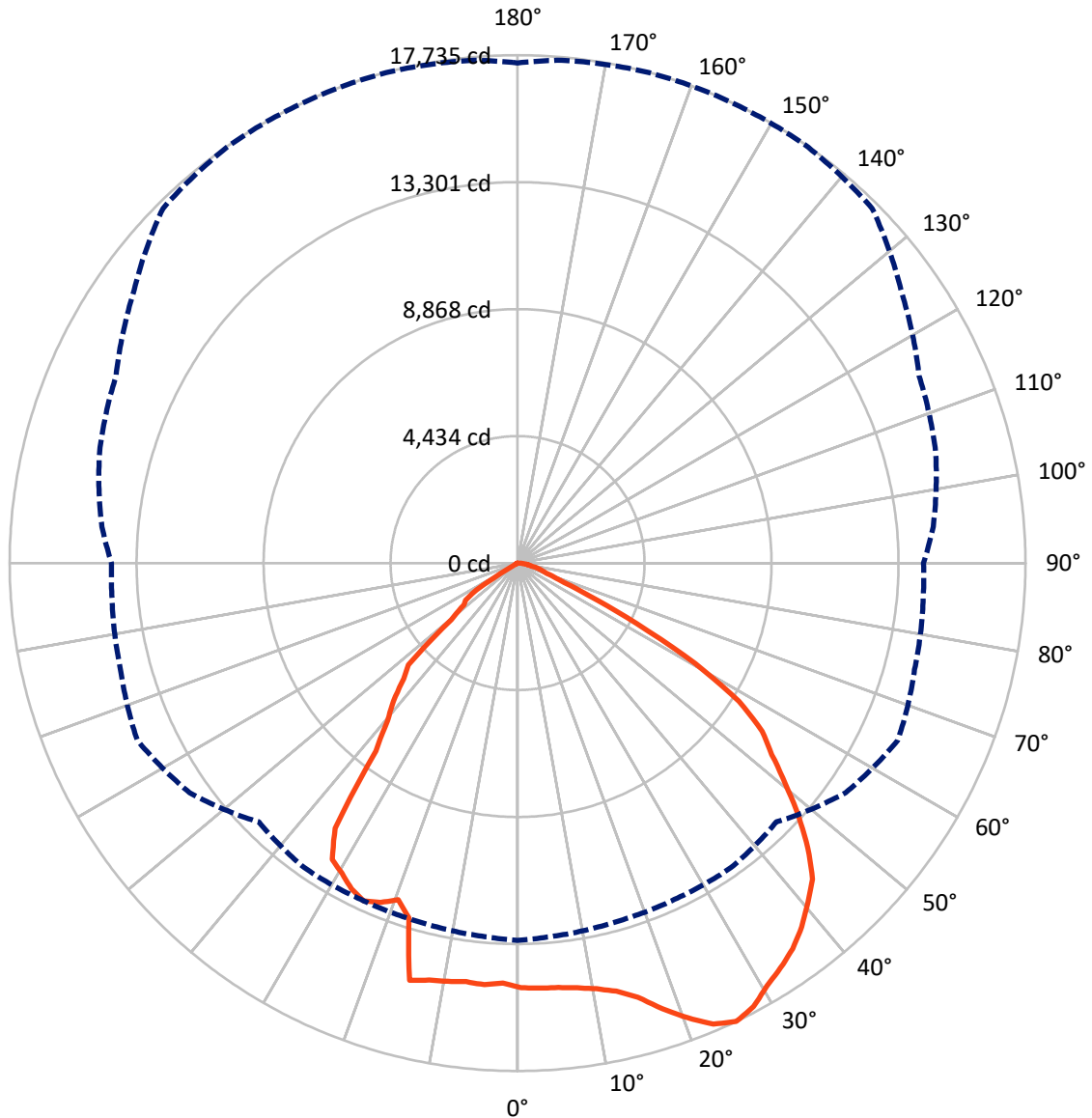
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 37.1 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	21273.5	0.0	21273.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	13088.3	0.0	13088.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	34361.9	0.0	34361.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1422.4	4.1
10°-20°	4343.3	12.6
20°-30°	6866.5	20.0
30°-40°	7756.3	22.6
40°-50°	7263.9	21.1
50°-60°	5007.9	14.6
60°-70°	1345.5	3.9
70°-80°	280.4	0.8
80°-90°	75.8	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°	34361.9	100.0
0°-180°	34361.9	100.0



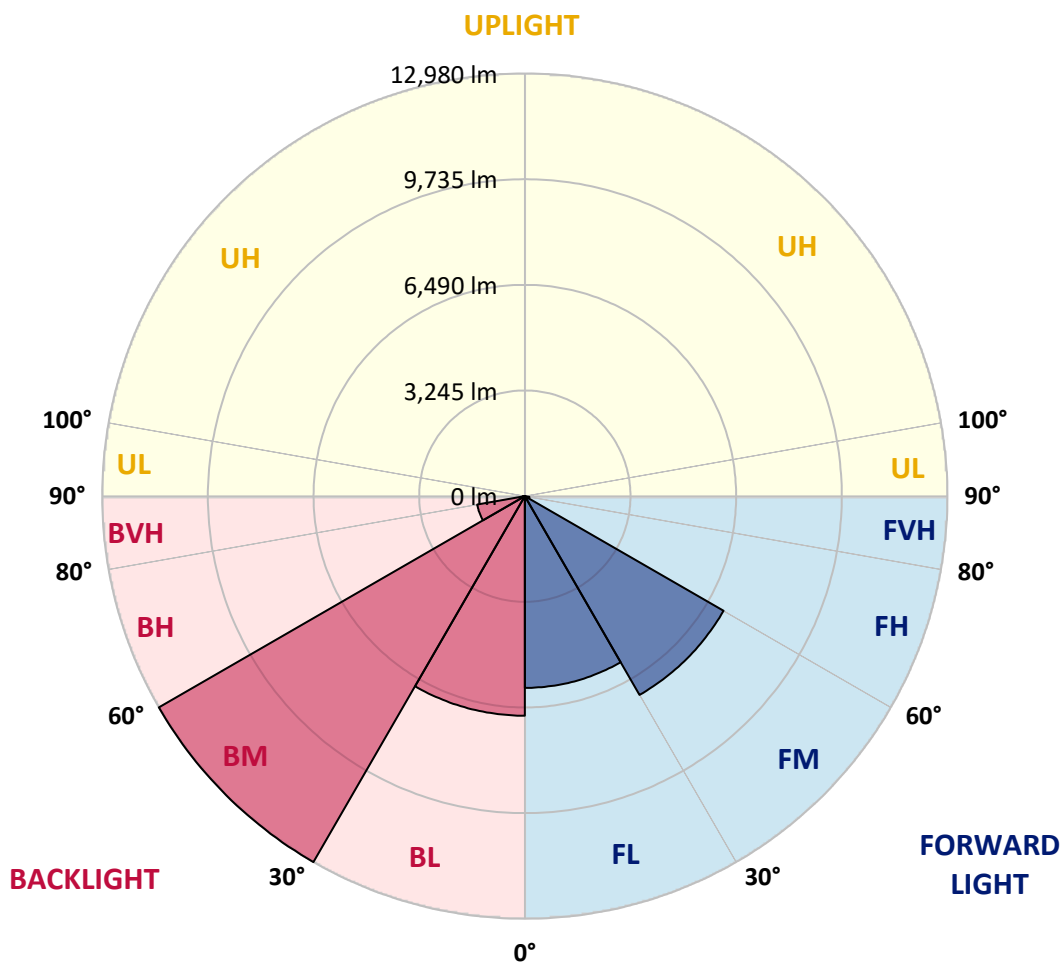
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5888.5	17.1			
FM (30°-60°)	7048.4	20.5			
FH (60°-80°)	141.2	0.4			G0/660
FVH (80°-90°)	10.2	0.0			G1/100
BL (0°-30°)	6743.6	19.6	B5		
BM (30°-60°)	12979.7	37.8	B5		
BH (60°-80°)	1484.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	65.7	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°	14826.6	14826.6	14826.6	14826.6	14826.6	14826.6	14826.6	14826.6	14826.6	14826.6
2.5°	14892.2	14796.3	14705.4	14675.1	14801.3	14937.7	14851.8	14856.9	14826.6	14882.1
5°	15003.3	14872.0	14811.4	14766.0	14786.2	14927.6	14806.4	14851.8	14801.3	14867.0
7.5°	14962.9	14872.0	14811.4	14725.6	14791.2	14957.9	14841.7	14846.8	14821.5	14882.1
10°	14937.7	14872.0	14796.3	14806.4	14882.1	15023.5	14932.6	14983.1	14947.8	14983.1
12.5°	14998.3	14927.6	14887.2	14887.2	14952.8	15114.4	15069.0	15114.4	15099.3	15129.6
15°	14427.6	14493.3	14877.1	15048.8	15180.1	15341.7	15321.5	15366.9	15377.0	15422.5
17.5°	12170.3	12104.7	12074.4	12958.1	15306.3	15806.3	15791.1	15786.1	15735.6	15700.2
20°	12468.3	12443.0	12407.7	12473.3	12735.9	16048.6	16149.6	15528.5	15346.7	15331.6
22.5°	12942.9	12902.5	12771.2	12776.3	12857.1	13952.9	15649.7	15084.1	15023.5	14988.2
25°	13175.2	13094.4	12988.4	12958.1	12983.3	12781.3	13978.2	14649.8	14351.9	14215.5
27.5°	12766.2	12771.2	12685.4	12766.2	12670.3	11761.3	11251.2	13801.4	13791.3	13730.7
30°	12458.2	12443.0	12342.0	12443.0	11781.5	10766.4	10549.3	12872.2	12766.2	12685.4
32.5°	11513.8	11523.9	11816.8	12210.7	11125.0	10322.0	9665.5	11498.7	12503.6	12458.2
35°	8236.4	8256.6	9296.9	11241.1	10130.1	9438.3	9387.8	9938.2	12089.5	12109.7
37.5°	7928.4	7928.4	7903.1	8221.3	9347.4	9079.8	9180.8	9125.2	11074.5	11125.0
40°	7706.2	7660.7	7625.4	7125.4	6499.2	8827.3	8898.0	8645.5	10468.5	10478.6
42.5°	7438.5	7388.0	7398.1	6474.0	5817.5	8201.1	8004.1	7665.8	9458.5	9468.6
45°	6948.7	7034.5	7095.1	5666.0	5615.5	5857.9	7383.0	7170.9	8776.8	8963.6
47.5°	3534.9	3610.7	5539.8	5211.5	5327.7	5206.5	6236.7	6241.7	7302.2	7923.3
50°	3206.7	3186.5	3191.5	3040.1	4918.6	4211.6	4509.6	5721.6	5847.8	6736.6
52.5°	2989.6	2984.5	2676.5	2378.5	3090.6	3706.6	3272.3	4140.9	4348.0	5706.4
55°	2211.9	2373.5	2110.9	2237.1	1934.1	2969.4	2954.2	3736.9	3807.6	4575.2
57.5°	20.2	25.2	60.6	1701.8	1338.2	1484.7	2040.2	2550.2	2676.5	3565.2
60°	5.0	10.1	25.2	50.5	868.6	914.0	1363.5	1474.6	1661.4	2126.0
62.5°	0.0	0.0	10.1	25.2	45.4	373.7	434.3	474.7	732.2	1085.7
65°	0.0	0.0	5.0	15.1	25.2	60.6	106.0	222.2	318.1	393.9
67.5°	0.0	0.0	5.0	10.1	20.2	30.3	60.6	85.8	136.3	232.3
70°	0.0	0.0	5.0	10.1	15.1	25.2	40.4	60.6	80.8	116.1
72.5°	0.0	0.0	5.0	10.1	10.1	30.3	30.3	45.4	60.6	75.7
75°	0.0	0.0	5.0	5.0	10.1	20.2	30.3	35.3	40.4	60.6
77.5°	0.0	0.0	5.0	10.1	15.1	20.2	25.2	40.4	35.3	35.3
80°	0.0	0.0	5.0	15.1	15.1	25.2	30.3	40.4	25.2	25.2
82.5°	0.0	0.0	5.0	20.2	15.1	50.5	50.5	55.5	20.2	20.2
85°	0.0	0.0	15.1	10.1	30.3	50.5	45.4	30.3	25.2	15.1
87.5°	0.0	0.0	5.0	5.0	10.1	15.1	35.3	30.3	10.1	10.1
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°
14826.6	0°	14826.6	14826.6	14826.6	14826.6	14826.6	14826.6	14826.6	14826.6	14826.6
14735.7	2.5°	14937.7	14872.0	15008.4	14993.2	14927.6	14897.3	14861.9	14831.6	14609.4
14745.8	5°	14942.7	14841.7	15008.4	14978.1	14968.0	14917.5	14887.2	14932.6	14730.6
14786.2	7.5°	14942.7	14841.7	15023.5	15033.6	15018.5	14978.1	14973.0	15003.3	14836.7
14856.9	10°	15043.7	15003.3	15154.8	15170.0	15149.8	15139.7	15114.4	15094.2	14917.5
15099.3	12.5°	15255.8	15175.0	15346.7	15392.2	15377.0	15402.3	15341.7	15372.0	15190.2
15346.7	15°	15513.4	15518.4	15649.7	15750.7	15740.6	15821.4	15730.5	15811.3	15680.0
15629.5	17.5°	15907.2	15962.8	16149.6	16301.1	16356.7	16417.3	16356.7	16381.9	16195.1
15316.4	20°	15493.2	15700.2	16599.1	16876.8	16993.0	17048.5	16947.5	16977.8	16791.0
14932.6	22.5°	15119.5	15387.1	16185.0	17053.6	17412.1	17523.2	17487.9	17482.8	17412.1
14175.1	25°	14569.0	15109.4	15467.9	16387.0	17513.1	17715.1	17735.3	17730.3	17624.2
13710.5	27.5°	13892.3	14013.5	14942.7	15503.3	16806.1	17573.7	17543.4	17397.0	17255.6
12746.0	30°	13028.8	13579.2	13998.4	14892.2	15892.1	17139.4	17139.4	17028.3	16881.9
12402.6	32.5°	12589.5	13301.5	13690.3	14013.5	14867.0	16654.6	16856.6	16740.5	16624.3
12135.0	35°	12357.2	12463.2	13372.2	13665.1	14387.2	15720.4	16538.5	16422.3	16336.5
11422.9	37.5°	11847.1	12094.6	12518.8	13301.5	13523.7	14957.9	16114.3	16053.7	15952.7
10498.8	40°	10710.9	11372.4	12023.9	12766.2	12998.5	13978.2	15599.2	15624.5	15488.1
9514.0	42.5°	10039.2	10488.7	11508.8	12008.7	12634.9	13346.9	15099.3	15139.7	15043.7
9014.1	45°	9251.5	9751.4	10468.5	11377.5	12230.9	12478.4	14215.5	14639.7	14558.9
8019.3	47.5°	8529.3	8933.3	9812.0	10731.1	11675.4	11640.1	13200.5	13998.4	13887.3
7256.7	50°	7504.2	8211.2	8625.3	9468.6	10877.5	10973.5	12119.8	13245.9	13155.0
6166.0	52.5°	6327.6	7216.3	8009.2	8781.8	10069.5	10296.8	11114.9	12478.4	12417.8
4711.6	55°	5529.7	6176.1	7069.9	7691.0	9089.9	9695.8	10362.4	11746.1	11715.8
3873.3	57.5°	3933.9	5181.2	5918.5	6787.1	7524.4	8620.2	9115.1	10256.4	9973.6
2146.2	60°	2666.4	3252.1	4151.0	5085.3	5580.2	6676.0	7135.5	8049.6	7973.8
1282.7	62.5°	1408.9	1949.3	2590.6	3060.3	3418.8	4484.3	4676.2	5661.0	5635.7
515.1	65°	621.1	823.1	1403.9	1646.3	2014.9	2509.8	2676.5	3030.0	2944.1
252.5	67.5°	323.2	489.8	792.8	974.6	1227.1	1414.0	1550.3	1661.4	1732.1
166.6	70°	196.9	358.5	489.8	676.7	843.3	994.8	1100.9	1252.4	1343.3
85.8	72.5°	146.4	227.2	338.3	520.1	611.0	787.8	893.8	1004.9	1085.7
70.7	75°	80.8	151.5	272.7	409.0	489.8	641.3	737.3	813.0	838.3
40.4	77.5°	50.5	116.1	227.2	318.1	383.8	520.1	494.9	565.6	626.2
30.3	80°	35.3	85.8	176.7	262.6	267.6	333.3	393.9	454.5	494.9
20.2	82.5°	25.2	70.7	131.3	202.0	176.7	257.5	308.0	353.5	257.5
15.1	85°	20.2	50.5	65.6	121.2	101.0	181.8	156.5	151.5	101.0
10.1	87.5°	15.1	25.2	45.4	55.5	40.4	40.4	50.5	60.6	50.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14826.6
14457.9
14558.9
14644.8
14771.0
15028.6
15462.9
16033.5
16659.7
17184.9
17462.6
17144.5
16826.3
16528.4
16215.3
15851.7
15457.8
15033.6
14569.0
13968.1
13170.2
12458.2
11751.2
9943.3
7978.9
5640.8
2908.8
1732.1
1348.3
1100.9
823.1
636.3
499.9
186.8
101.0
50.5
0.0

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