

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: P638446

Luminaire Tested: **IFLD-L-SA8C-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638446
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37341.2 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

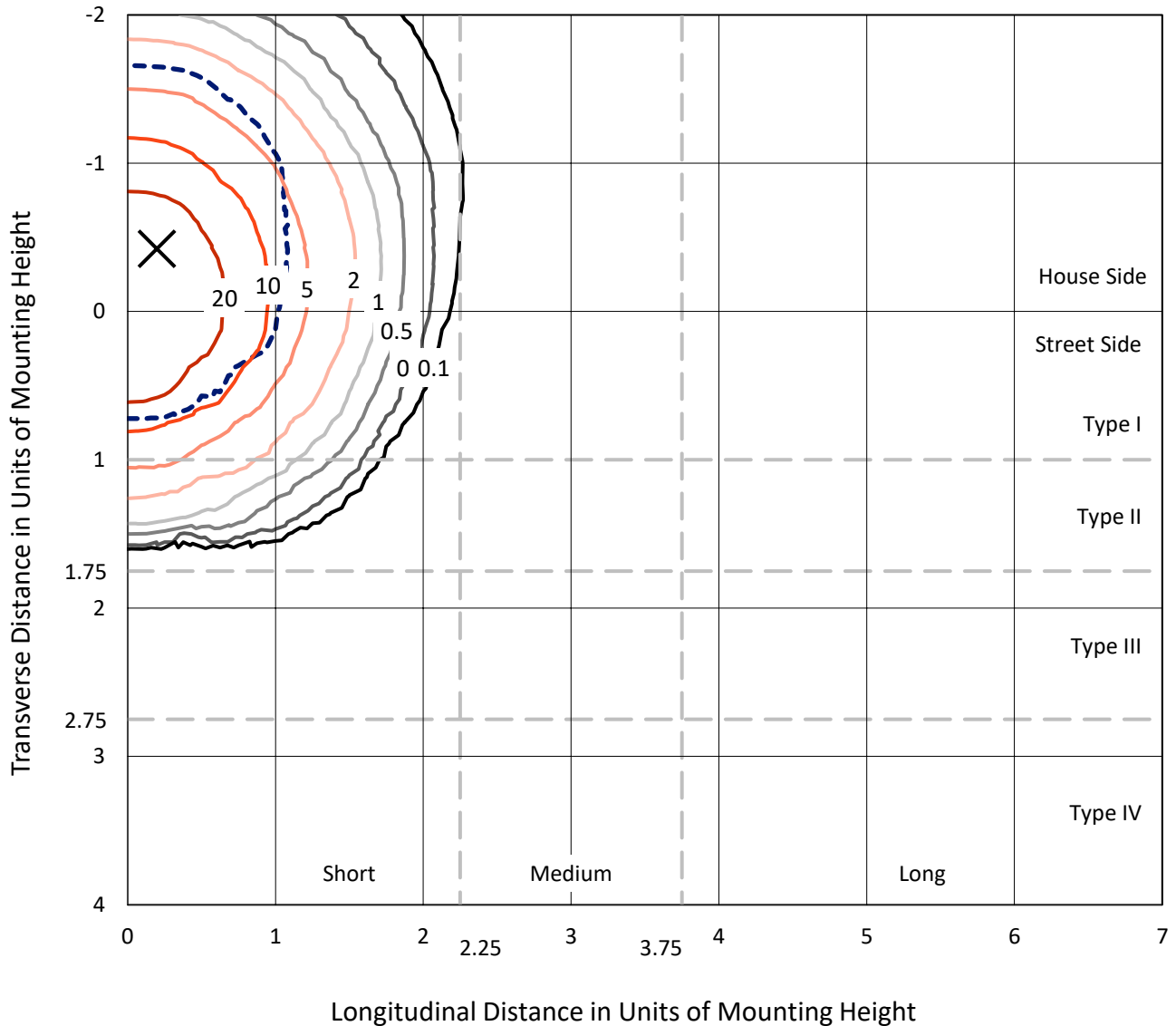
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

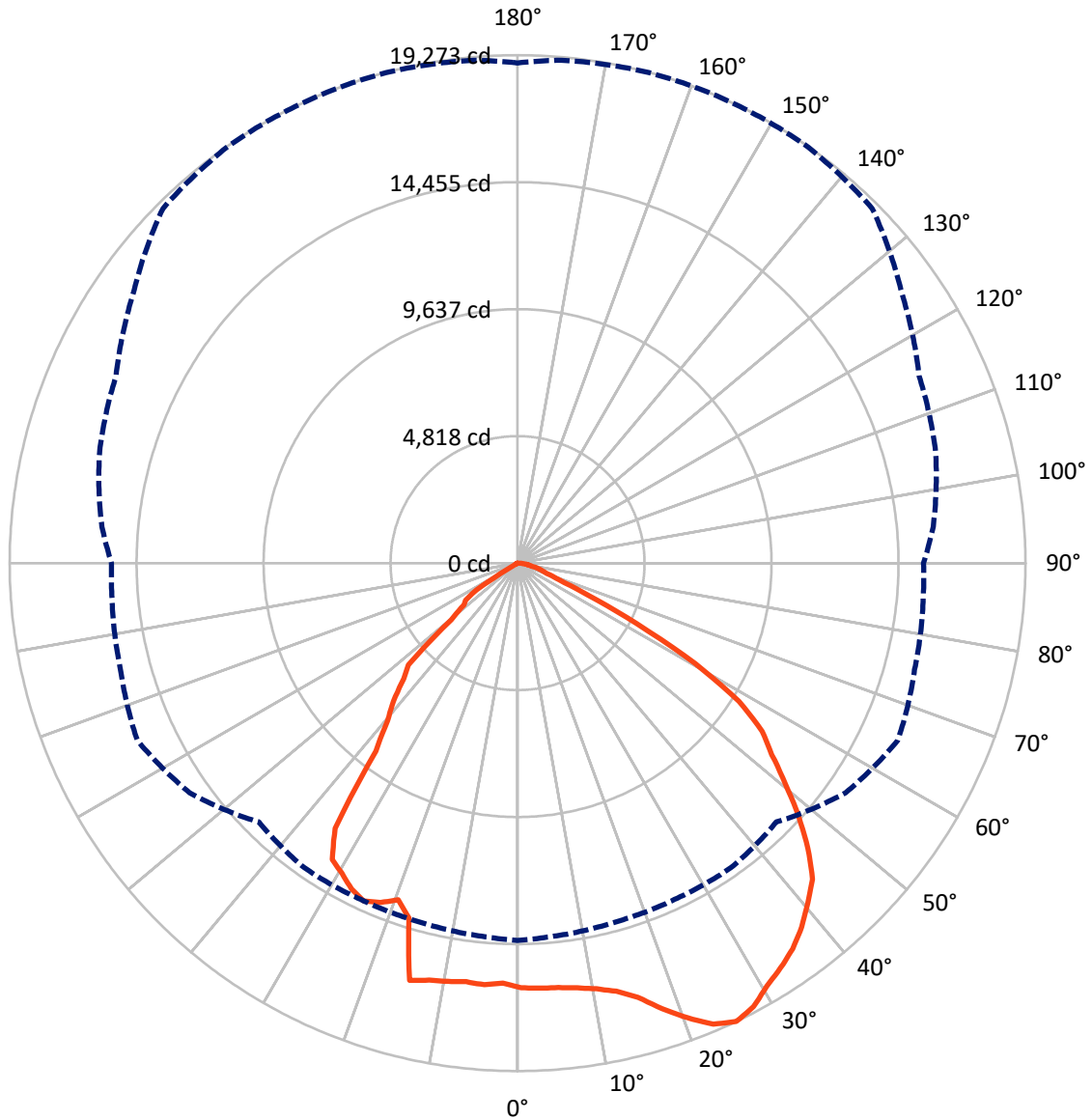
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.3 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	23118.0	0.0	23118.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	14223.2	0.0	14223.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	37341.2	0.0	37341.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1545.7	4.1
10°-20°	4719.8	12.6
20°-30°	7461.8	20.0
30°-40°	8428.7	22.6
40°-50°	7893.7	21.1
50°-60°	5442.1	14.6
60°-70°	1462.1	3.9
70°-80°	304.7	0.8
80°-90°	82.4	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°	37341.2	100.0
0°-180°	37341.2	100.0



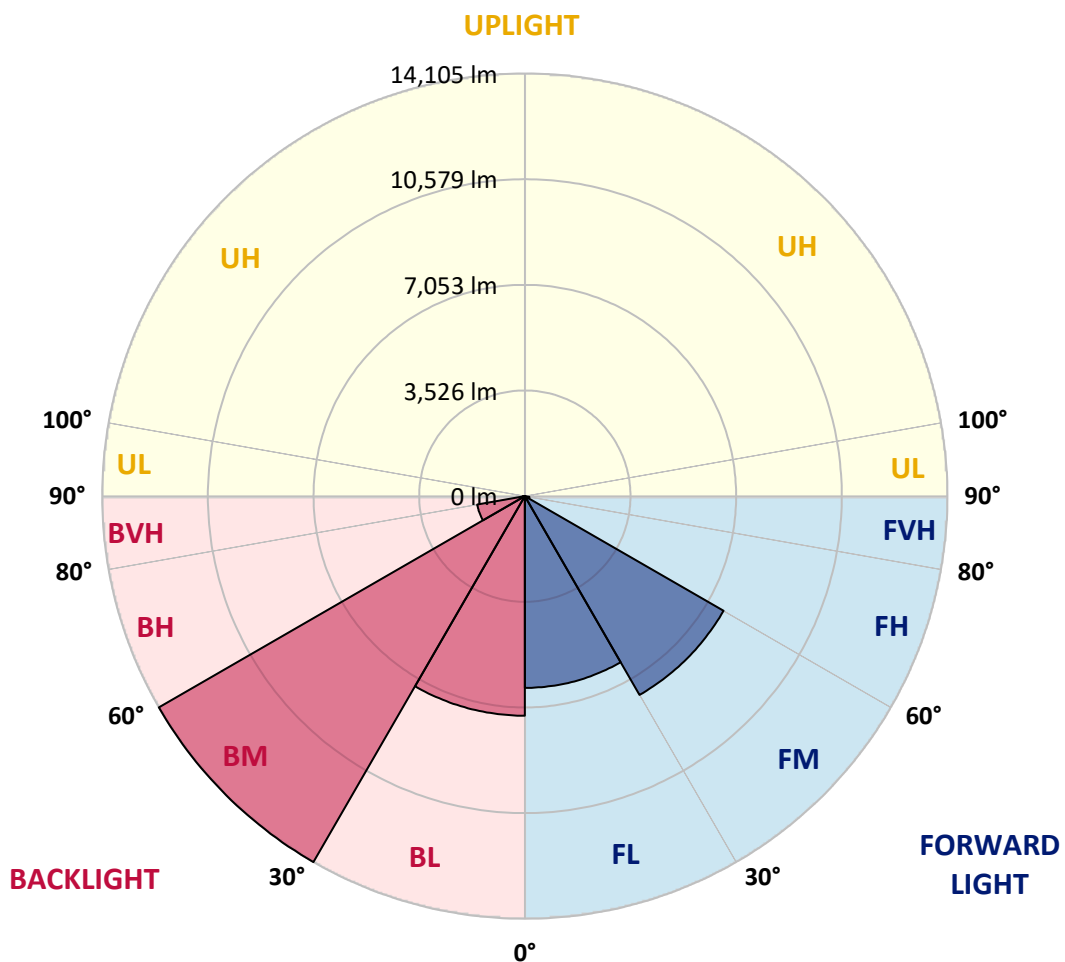
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6399.1	17.1			
FM (30°-60°)	7659.5	20.5			
FH (60°-80°)	153.5	0.4			G0/660
FVH (80°-90°)	11.1	0.0			G1/100
BL (0°-30°)	7328.3	19.6	B5		
BM (30°-60°)	14105.1	37.8	B5		
BH (60°-80°)	1613.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	71.4	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16112.1	16112.1	16112.1	16112.1	16112.1	16112.1	16112.1	16112.1	16112.1	16112.1
2.5°	16183.4	16079.1	15980.4	15947.4	16084.6	16232.8	16139.5	16145.0	16112.1	16172.4
5°	16304.1	16161.5	16095.6	16046.2	16068.2	16221.8	16090.1	16139.5	16084.6	16156.0
7.5°	16260.2	16161.5	16095.6	16002.3	16073.6	16254.7	16128.5	16134.0	16106.6	16172.4
10°	16232.8	16161.5	16079.1	16090.1	16172.4	16326.1	16227.3	16282.2	16243.8	16282.2
12.5°	16298.6	16221.8	16177.9	16177.9	16249.3	16424.9	16375.5	16424.9	16408.4	16441.3
15°	15678.5	15749.9	16166.9	16353.5	16496.2	16671.8	16649.9	16699.3	16710.2	16759.6
17.5°	13225.5	13154.2	13121.2	14081.6	16633.4	17176.7	17160.2	17154.7	17099.9	17061.4
20°	13549.3	13521.8	13483.4	13554.8	13840.1	17440.1	17549.9	16874.9	16677.3	16660.8
22.5°	14065.1	14021.2	13878.5	13884.0	13971.8	15162.7	17006.6	16391.9	16326.1	16287.7
25°	14317.6	14229.8	14114.5	14081.6	14109.0	13889.5	15190.1	15920.0	15596.2	15448.0
27.5°	13873.1	13878.5	13785.3	13873.1	13768.8	12781.0	12226.7	14998.0	14987.1	14921.2
30°	13538.3	13521.8	13412.1	13521.8	12802.9	11699.9	11463.9	13988.3	13873.1	13785.3
32.5°	12512.1	12523.1	12841.4	13269.4	12089.5	11217.0	10503.6	12495.6	13587.7	13538.3
35°	8950.5	8972.5	10103.0	12215.8	11008.4	10256.6	10201.7	10799.9	13137.7	13159.6
37.5°	8615.8	8615.8	8588.3	8934.1	10157.8	9867.0	9976.7	9916.4	12034.7	12089.5
40°	8374.3	8324.9	8286.5	7743.2	7062.7	9592.6	9669.4	9395.0	11376.1	11387.1
42.5°	8083.5	8028.6	8039.6	7035.3	6321.9	8912.1	8698.1	8330.4	10278.6	10289.6
45°	7551.2	7644.5	7710.3	6157.3	6102.4	6365.8	8023.1	7792.6	9537.7	9740.8
47.5°	3841.4	3923.7	6020.1	5663.4	5789.6	5657.9	6777.4	6782.9	7935.3	8610.3
50°	3484.7	3462.8	3468.3	3303.6	5345.1	4576.8	4900.6	6217.6	6354.8	7320.7
52.5°	3248.8	3243.3	2908.5	2584.7	3358.5	4028.0	3556.1	4500.0	4725.0	6201.2
55°	2403.6	2579.2	2293.9	2431.1	2101.8	3226.8	3210.3	4060.9	4137.8	4971.9
57.5°	22.0	27.4	65.9	1849.4	1454.3	1613.4	2217.1	2771.3	2908.5	3874.4
60°	5.5	11.0	27.4	54.9	943.9	993.3	1481.7	1602.4	1805.5	2310.3
62.5°	0.0	0.0	11.0	27.4	49.4	406.1	471.9	515.8	795.7	1179.9
65°	0.0	0.0	5.5	16.5	27.4	65.9	115.2	241.5	345.7	428.0
67.5°	0.0	0.0	5.5	11.0	22.0	32.9	65.9	93.3	148.2	252.4
70°	0.0	0.0	5.5	11.0	16.5	27.4	43.9	65.9	87.8	126.2
72.5°	0.0	0.0	5.5	11.0	11.0	32.9	32.9	49.4	65.9	82.3
75°	0.0	0.0	5.5	5.5	11.0	22.0	32.9	38.4	43.9	65.9
77.5°	0.0	0.0	5.5	11.0	16.5	22.0	27.4	43.9	38.4	38.4
80°	0.0	0.0	5.5	16.5	16.5	27.4	32.9	43.9	27.4	27.4
82.5°	0.0	0.0	5.5	22.0	16.5	54.9	54.9	60.4	22.0	22.0
85°	0.0	0.0	16.5	11.0	32.9	54.9	49.4	32.9	27.4	16.5
87.5°	0.0	0.0	5.5	5.5	11.0	16.5	38.4	32.9	11.0	11.0
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°
16112.1	0°	16112.1	16112.1	16112.1	16112.1	16112.1	16112.1	16112.1	16112.1	16112.1
16013.3	2.5°	16232.8	16161.5	16309.6	16293.2	16221.8	16188.9	16150.5	16117.6	15876.1
16024.3	5°	16238.3	16128.5	16309.6	16276.7	16265.7	16210.8	16177.9	16227.3	16007.8
16068.2	7.5°	16238.3	16128.5	16326.1	16337.1	16320.6	16276.7	16271.2	16304.1	16123.0
16145.0	10°	16348.0	16304.1	16468.8	16485.2	16463.3	16452.3	16424.9	16402.9	16210.8
16408.4	12.5°	16578.5	16490.7	16677.3	16726.7	16710.2	16737.7	16671.8	16704.7	16507.2
16677.3	15°	16858.4	16863.9	17006.6	17116.3	17105.3	17193.2	17094.4	17182.2	17039.5
16984.6	17.5°	17286.4	17346.8	17549.9	17714.5	17774.9	17840.7	17774.9	17802.3	17599.2
16644.4	20°	16836.4	17061.4	18038.3	18340.1	18466.3	18526.7	18416.9	18449.8	18246.8
16227.3	22.5°	16430.4	16721.2	17588.3	18532.2	18921.8	19042.5	19004.1	18998.6	18921.8
15404.1	25°	15832.2	16419.4	16809.0	17807.8	19031.6	19251.1	19273.0	19267.5	19152.3
14899.3	27.5°	15096.8	15228.5	16238.3	16847.4	18263.3	19097.4	19064.5	18905.3	18751.7
13851.1	30°	14158.4	14756.6	15212.1	16183.4	17270.0	18625.5	18625.5	18504.7	18345.6
13477.9	32.5°	13681.0	14454.8	14877.3	15228.5	16156.0	18098.6	18318.1	18191.9	18065.7
13187.1	35°	13428.5	13543.8	14531.6	14849.9	15634.6	17083.4	17972.4	17846.2	17752.9
12413.3	37.5°	12874.3	13143.2	13604.2	14454.8	14696.2	16254.7	17511.4	17445.6	17335.8
11409.1	40°	11639.5	12358.4	13066.4	13873.1	14125.5	15190.1	16951.7	16979.1	16831.0
10338.9	42.5°	10909.7	11398.1	12506.6	13049.9	13730.4	14504.2	16408.4	16452.3	16348.0
9795.7	45°	10053.6	10596.9	11376.1	12363.9	13291.4	13560.3	15448.0	15909.0	15821.2
8714.6	47.5°	9268.8	9707.8	10662.7	11661.5	12687.7	12649.3	14345.0	15212.1	15091.3
7885.9	50°	8154.8	8923.1	9373.1	10289.6	11820.6	11924.9	13170.6	14394.4	14295.6
6700.6	52.5°	6876.2	7842.0	8703.6	9543.2	10942.6	11189.5	12078.6	13560.3	13494.4
5120.1	55°	6009.1	6711.5	7682.9	8357.9	9878.0	10536.5	11260.9	12764.5	12731.6
4209.1	57.5°	4275.0	5630.4	6431.7	7375.5	8176.8	9367.6	9905.4	11145.6	10838.3
2332.3	60°	2897.5	3534.1	4510.9	5526.2	6064.0	7254.8	7754.2	8747.5	8665.2
1393.9	62.5°	1531.1	2118.3	2815.2	3325.6	3715.2	4873.1	5081.7	6151.8	6124.3
559.8	65°	675.0	894.5	1525.6	1789.0	2189.6	2727.4	2908.5	3292.7	3199.4
274.4	67.5°	351.2	532.3	861.6	1059.1	1333.5	1536.6	1684.7	1805.5	1882.3
181.1	70°	214.0	389.6	532.3	735.4	916.5	1081.1	1196.3	1361.0	1459.7
93.3	72.5°	159.1	246.9	367.7	565.2	664.0	856.1	971.3	1092.1	1179.9
76.8	75°	87.8	164.6	296.3	444.5	532.3	696.9	801.2	883.5	911.0
43.9	77.5°	54.9	126.2	246.9	345.7	417.1	565.2	537.8	614.6	680.5
32.9	80°	38.4	93.3	192.1	285.4	290.9	362.2	428.0	493.9	537.8
22.0	82.5°	27.4	76.8	142.7	219.5	192.1	279.9	334.8	384.1	279.9
16.5	85°	22.0	54.9	71.3	131.7	109.8	197.6	170.1	164.6	109.8
11.0	87.5°	16.5	27.4	49.4	60.4	43.9	43.9	54.9	65.9	54.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16112.1
15711.5
15821.2
15914.5
16051.7
16331.6
16803.5
17423.6
18104.1
18674.8
18976.7
18630.9
18285.2
17961.4
17621.2
17226.1
16798.0
16337.1
15832.2
15179.1
14312.1
13538.3
12770.0
10805.4
8670.7
6129.8
3160.9
1882.3
1465.2
1196.3
894.5
691.5
543.3
203.0
109.8
54.9
0.0

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