

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: P638562

Luminaire Tested: **IFLD-L-SA8C-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638562
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29671.3 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

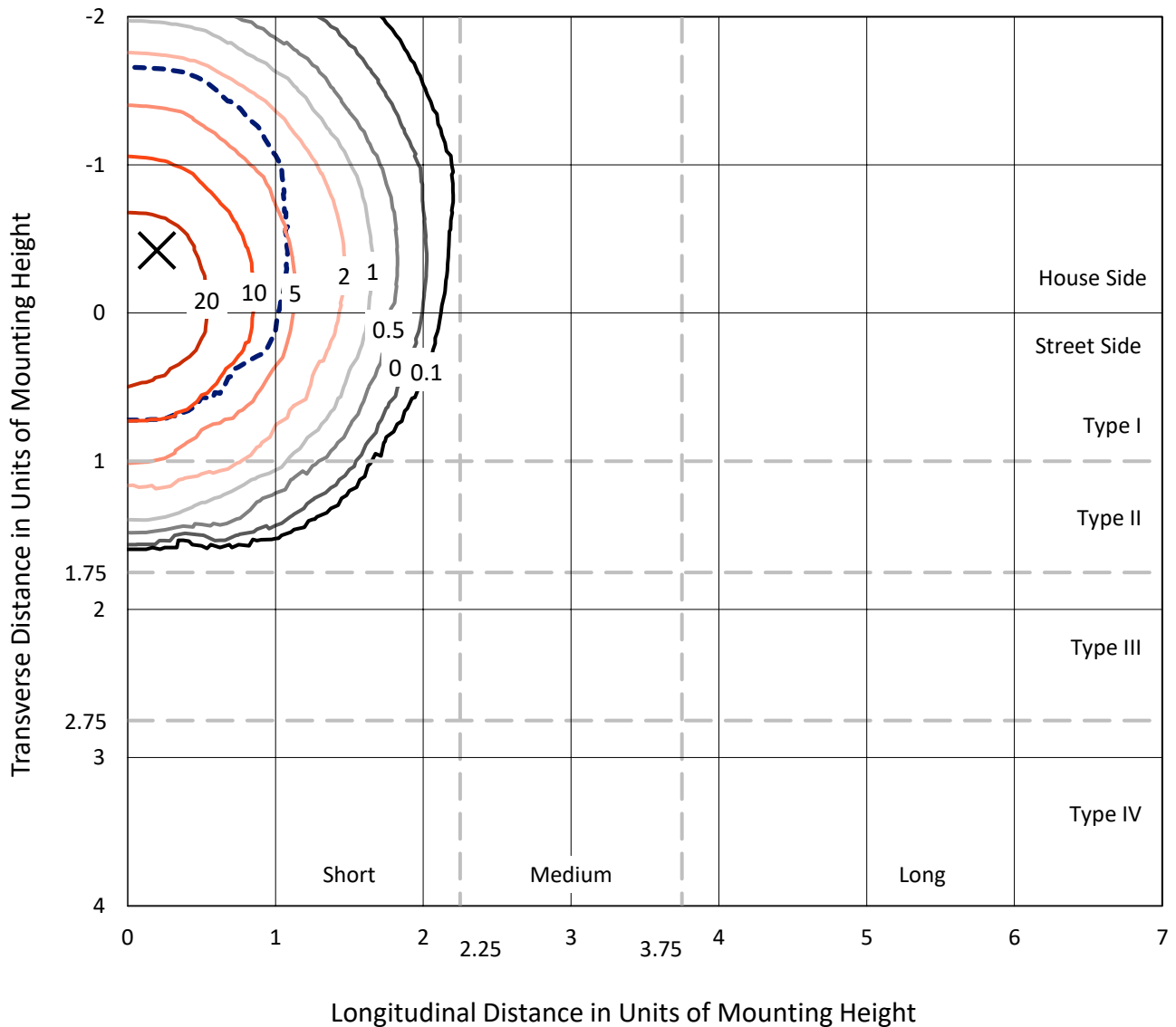
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

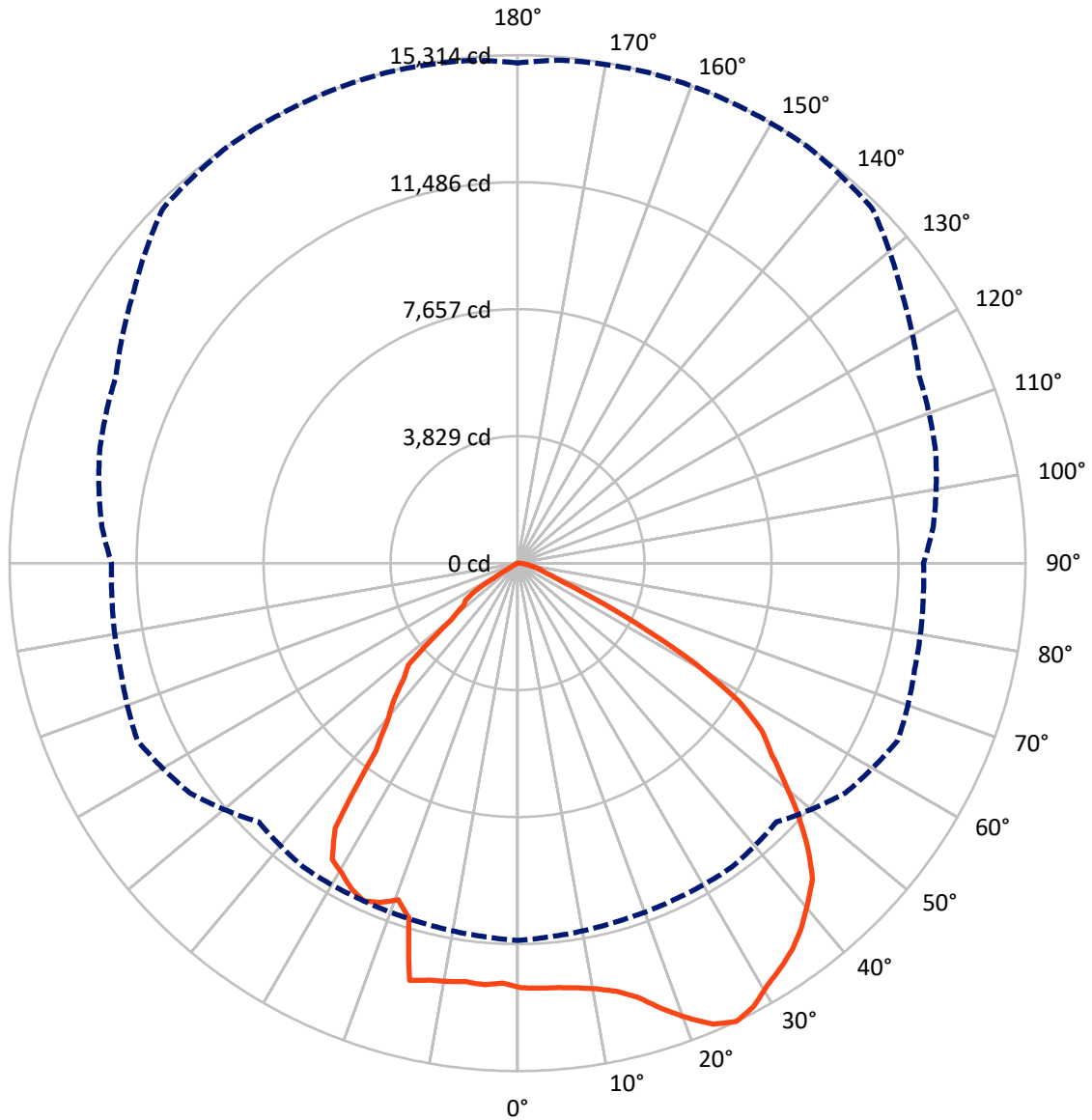
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32 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	18369.6	0.0	18369.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11301.7	0.0	11301.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	29671.3	0.0	29671.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1228.2	4.1
10°-20°	3750.4	12.6
20°-30°	5929.1	20.0
30°-40°	6697.5	22.6
40°-50°	6272.3	21.1
50°-60°	4324.3	14.6
60°-70°	1161.8	3.9
70°-80°	242.1	0.8
80°-90°	65.5	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°	29671.3	100.0
0°-180°	29671.3	100.0



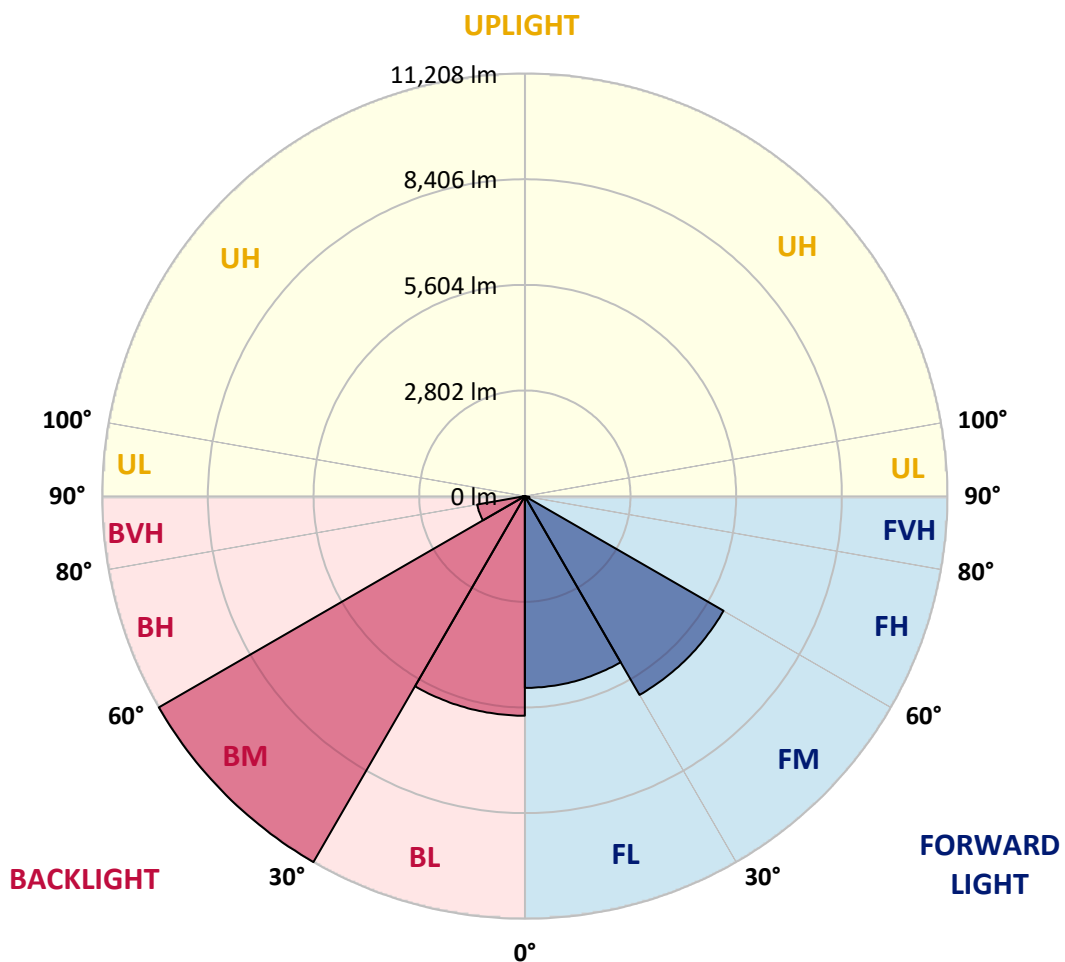
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5084.7	17.1			
FM (30°-60°)	6086.3	20.5			
FH (60°-80°)	122.0	0.4			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	5823.0	19.6	B5		
BM (30°-60°)	11207.9	37.8	B5		
BH (60°-80°)	1281.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	56.7	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°	12802.6	12802.6	12802.6	12802.6	12802.6	12802.6	12802.6	12802.6	12802.6	12802.6
2.5°	12859.3	12776.5	12698.0	12671.8	12780.8	12898.6	12824.4	12828.8	12802.6	12850.6
5°	12955.3	12841.9	12789.6	12750.3	12767.8	12889.9	12785.2	12824.4	12780.8	12837.5
7.5°	12920.4	12841.9	12789.6	12715.4	12772.1	12916.0	12815.7	12820.1	12798.3	12850.6
10°	12898.6	12841.9	12776.5	12785.2	12850.6	12972.7	12894.2	12937.8	12907.3	12937.8
12.5°	12950.9	12889.9	12855.0	12855.0	12911.7	13051.2	13012.0	13051.2	13038.1	13064.3
15°	12458.2	12514.8	12846.3	12994.5	13107.9	13247.4	13230.0	13269.2	13277.9	13317.2
17.5°	10509.0	10452.3	10426.1	11189.2	13216.9	13648.6	13635.5	13631.2	13587.5	13557.0
20°	10766.3	10744.5	10713.9	10770.6	10997.4	13857.9	13945.1	13408.8	13251.8	13238.7
22.5°	11176.2	11141.3	11027.9	11032.3	11102.0	12048.3	13513.4	13025.0	12972.7	12942.2
25°	11376.7	11307.0	11215.4	11189.2	11211.0	11036.6	12070.1	12650.0	12392.8	12275.0
27.5°	11023.5	11027.9	10953.8	11023.5	10940.7	10155.8	9715.4	11917.4	11908.7	11856.4
30°	10757.5	10744.5	10657.2	10744.5	10173.2	9296.7	9109.2	11115.1	11023.5	10953.8
32.5°	9942.1	9950.8	10203.7	10543.9	9606.3	8913.0	8346.1	9929.0	10796.8	10757.5
35°	7112.1	7129.5	8027.8	9706.6	8747.3	8149.9	8106.3	8581.6	10439.2	10456.7
37.5°	6846.1	6846.1	6824.3	7099.0	8071.4	7840.3	7927.5	7879.6	9562.7	9606.3
40°	6654.2	6615.0	6584.5	6152.8	5612.1	7622.3	7683.3	7465.3	9039.5	9048.2
42.5°	6423.1	6379.5	6388.2	5590.3	5023.4	7081.6	6911.5	6619.4	8167.4	8176.1
45°	6000.2	6074.3	6126.6	4892.6	4849.0	5058.3	6375.2	6192.0	7578.7	7740.0
47.5°	3052.4	3117.8	4783.6	4500.1	4600.4	4495.8	5385.3	5389.7	6305.4	6841.7
50°	2769.0	2751.5	2755.9	2625.1	4247.2	3636.7	3894.0	4940.5	5049.5	5817.0
52.5°	2581.5	2577.1	2311.1	2053.8	2668.7	3200.7	2825.7	3575.7	3754.5	4927.4
55°	1909.9	2049.5	1822.7	1931.7	1670.1	2564.0	2550.9	3226.8	3287.9	3950.7
57.5°	17.4	21.8	52.3	1469.5	1155.6	1282.0	1761.7	2202.1	2311.1	3078.6
60°	4.4	8.7	21.8	43.6	750.0	789.3	1177.4	1273.3	1434.6	1835.8
62.5°	0.0	0.0	8.7	21.8	39.2	322.7	375.0	409.9	632.3	937.5
65°	0.0	0.0	4.4	13.1	21.8	52.3	91.6	191.9	274.7	340.1
67.5°	0.0	0.0	4.4	8.7	17.4	26.2	52.3	74.1	117.7	200.6
70°	0.0	0.0	4.4	8.7	13.1	21.8	34.9	52.3	69.8	100.3
72.5°	0.0	0.0	4.4	8.7	8.7	26.2	26.2	39.2	52.3	65.4
75°	0.0	0.0	4.4	4.4	8.7	17.4	26.2	30.5	34.9	52.3
77.5°	0.0	0.0	4.4	8.7	13.1	17.4	21.8	34.9	30.5	30.5
80°	0.0	0.0	4.4	13.1	13.1	21.8	26.2	34.9	21.8	21.8
82.5°	0.0	0.0	4.4	17.4	13.1	43.6	43.6	48.0	17.4	17.4
85°	0.0	0.0	13.1	8.7	26.2	43.6	39.2	26.2	21.8	13.1
87.5°	0.0	0.0	4.4	4.4	8.7	13.1	30.5	26.2	8.7	8.7
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°
12802.6	0°	12802.6	12802.6	12802.6	12802.6	12802.6	12802.6	12802.6	12802.6	12802.6
12724.2	2.5°	12898.6	12841.9	12959.6	12946.5	12889.9	12863.7	12833.2	12807.0	12615.1
12732.9	5°	12902.9	12815.7	12959.6	12933.5	12924.7	12881.1	12855.0	12894.2	12719.8
12767.8	7.5°	12902.9	12815.7	12972.7	12981.4	12968.3	12933.5	12929.1	12955.3	12811.4
12828.8	10°	12990.2	12955.3	13086.1	13099.2	13081.7	13073.0	13051.2	13033.8	12881.1
13038.1	12.5°	13173.3	13103.5	13251.8	13291.0	13277.9	13299.8	13247.4	13273.6	13116.6
13251.8	15°	13395.7	13400.0	13513.4	13600.6	13591.9	13661.7	13583.2	13653.0	13539.6
13496.0	17.5°	13735.8	13783.8	13945.1	14075.9	14123.9	14176.2	14123.9	14145.7	13984.4
13225.6	20°	13378.2	13557.0	14333.2	14573.0	14673.3	14721.3	14634.1	14660.3	14498.9
12894.2	22.5°	13055.6	13286.7	13975.6	14725.7	15035.3	15131.2	15100.7	15096.3	15035.3
12240.1	25°	12580.3	13046.8	13356.4	14150.1	15122.5	15296.9	15314.3	15310.0	15218.4
11839.0	27.5°	11995.9	12100.6	12902.9	13387.0	14512.0	15174.8	15148.6	15022.2	14900.1
11006.1	30°	11250.3	11725.6	12087.5	12859.3	13722.7	14799.8	14799.8	14703.9	14577.4
10709.6	32.5°	10870.9	11485.8	11821.5	12100.6	12837.5	14381.2	14555.6	14455.3	14355.0
10478.5	35°	10670.3	10761.9	11546.8	11799.7	12423.3	13574.5	14280.9	14180.6	14106.5
9863.6	37.5°	10229.9	10443.6	10809.9	11485.8	11677.6	12916.0	13914.6	13862.3	13775.1
9065.6	40°	9248.8	9820.0	10382.5	11023.5	11224.1	12070.1	13469.8	13491.6	13373.9
8215.3	42.5°	8668.8	9056.9	9937.7	10369.4	10910.2	11525.0	13038.1	13073.0	12990.2
7783.6	45°	7988.6	8420.3	9039.5	9824.4	10561.3	10775.0	12275.0	12641.3	12571.5
6924.6	47.5°	7365.0	7713.9	8472.6	9266.2	10081.6	10051.1	11398.5	12087.5	11991.6
6266.1	50°	6479.8	7090.3	7447.9	8176.1	9392.7	9475.5	10465.4	11437.8	11359.3
5324.3	52.5°	5463.8	6231.3	6915.9	7583.0	8695.0	8891.2	9597.6	10775.0	10722.7
4068.4	55°	4774.8	5333.0	6104.8	6641.2	7849.0	8372.3	8947.9	10142.7	10116.5
3344.6	57.5°	3396.9	4473.9	5110.6	5860.6	6497.3	7443.5	7870.8	8856.3	8612.1
1853.2	60°	2302.4	2808.2	3584.4	4391.1	4818.4	5764.7	6161.5	6950.8	6885.3
1107.6	62.5°	1216.6	1683.2	2237.0	2642.5	2952.1	3872.2	4037.9	4888.2	4866.4
444.8	65°	536.4	710.8	1212.2	1421.5	1739.9	2167.2	2311.1	2616.3	2542.2
218.0	67.5°	279.1	423.0	684.6	841.6	1059.6	1221.0	1338.7	1434.6	1495.7
143.9	70°	170.1	309.6	423.0	584.3	728.2	859.0	950.6	1081.4	1159.9
74.1	72.5°	126.5	196.2	292.2	449.1	527.6	680.2	771.8	867.8	937.5
61.0	75°	69.8	130.8	235.5	353.2	423.0	553.8	636.6	702.1	723.9
34.9	77.5°	43.6	100.3	196.2	274.7	331.4	449.1	427.3	488.4	540.7
26.2	80°	30.5	74.1	152.6	226.7	231.1	287.8	340.1	392.5	427.3
17.4	82.5°	21.8	61.0	113.4	174.4	152.6	222.4	266.0	305.2	222.4
13.1	85°	17.4	43.6	56.7	104.7	87.2	157.0	135.2	130.8	87.2
8.7	87.5°	13.1	21.8	39.2	48.0	34.9	34.9	43.6	52.3	43.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12802.6
12484.3
12571.5
12645.7
12754.7
12977.1
13352.1
13844.8
14385.5
14839.0
15078.9
14804.1
14529.4
14272.2
14001.8
13687.8
13347.7
12981.4
12580.3
12061.3
11372.4
10757.5
10147.1
8586.0
6889.7
4870.8
2511.7
1495.7
1164.3
950.6
710.8
549.4
431.7
161.3
87.2
43.6
0.0

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