

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: P638142

Luminaire Tested: **IFLD-S-SA6D-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638142
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34686.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

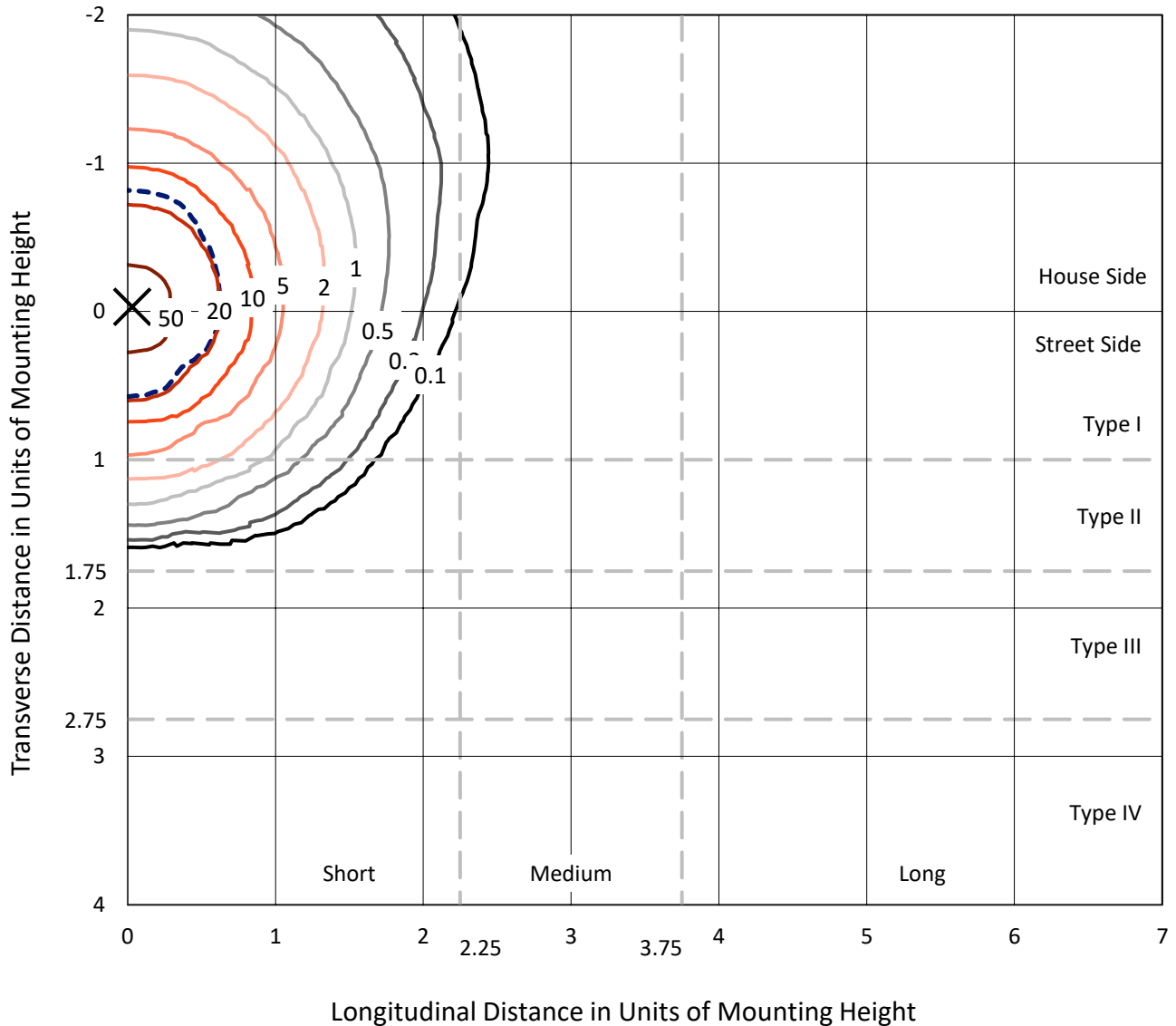
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

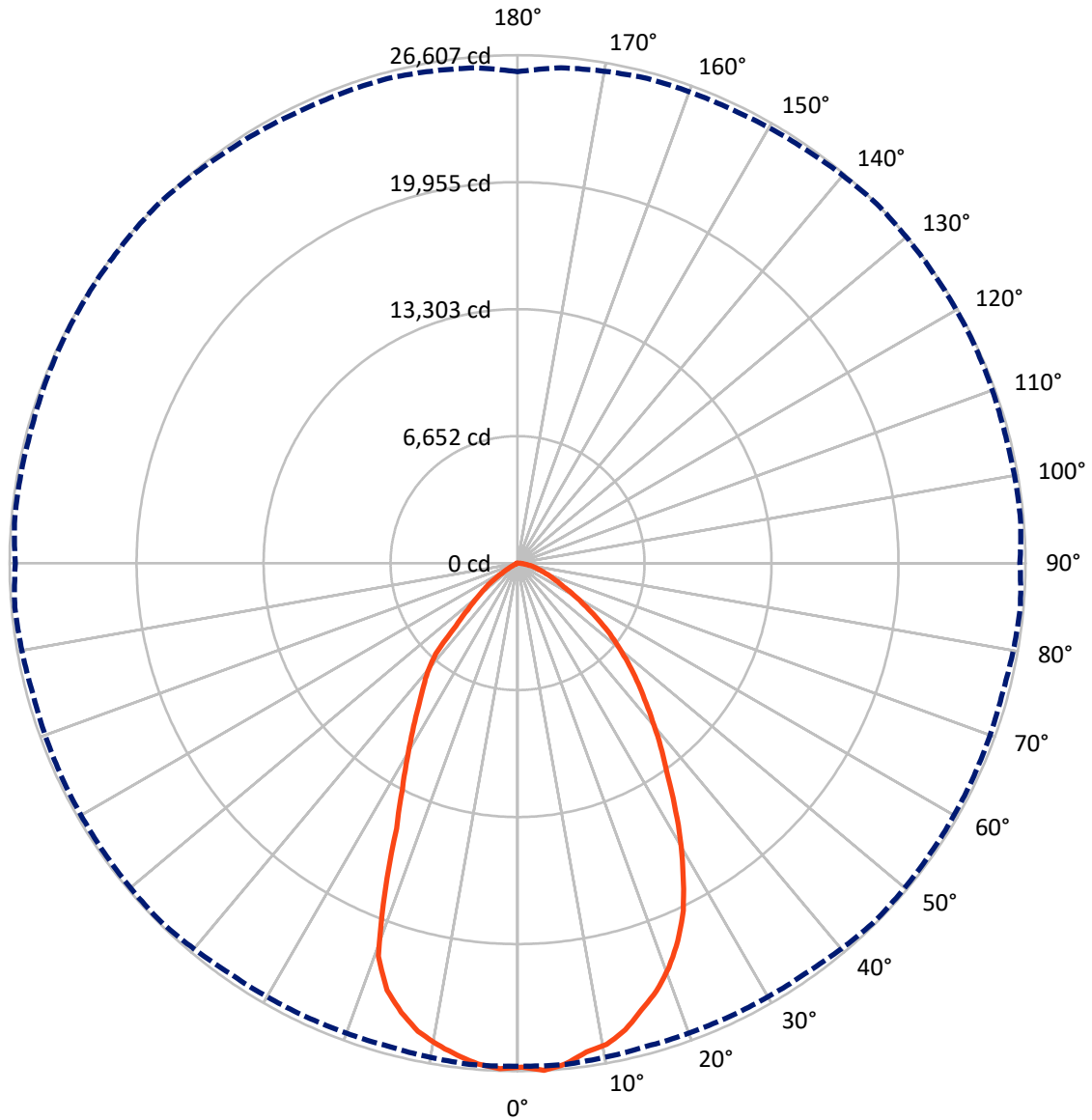
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 66 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20543.2	0.0	20543.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	14143.5	0.0	14143.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	34686.7	0.0	34686.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2475.6	7.1
10°-20°	6638.4	19.1
20°-30°	8095.9	23.3
30°-40°	7391.5	21.3
40°-50°	5341.6	15.4
50°-60°	2916.6	8.4
60°-70°	1205.9	3.5
70°-80°	488.4	1.4
80°-90°	132.9	0.4
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°	34686.7	100.0
0°-180°	34686.7	100.0



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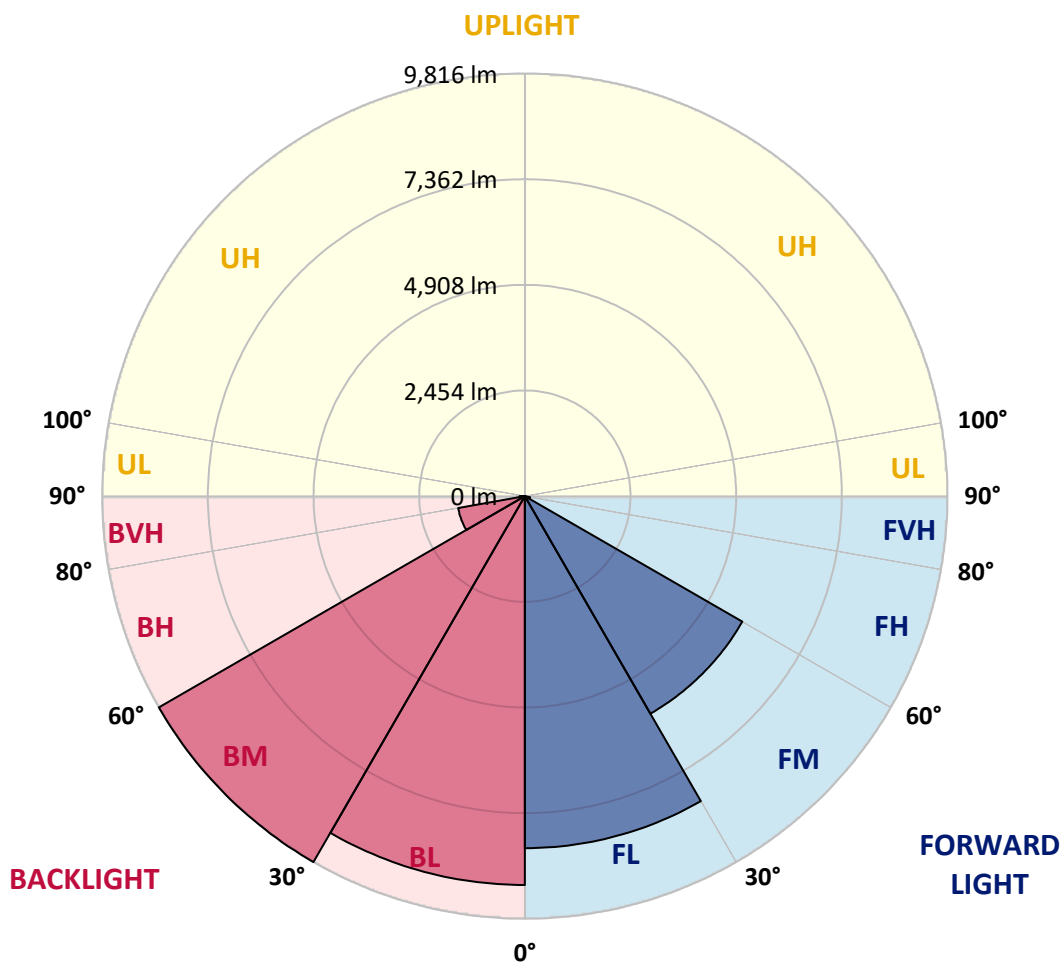
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8176.9	23.6			
FM (30°-60°)	5833.7	16.8			
FH (60°-80°)	122.2	0.4			G0/660
FVH (80°-90°)	10.6	0.0			G1/100
BL (0°-30°)	9032.9	26.0	B5		
BM (30°-60°)	9816.0	28.3	B5		
BH (60°-80°)	1572.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	122.2	0.4			G2/225
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°	26396.5	26396.5	26396.5	26396.5	26396.5	26396.5	26396.5	26396.5	26396.5	26396.5
2.5°	26347.6	26381.8	26196.2	26215.7	26249.9	26499.1	26435.6	26376.9	26293.9	26435.6
5°	26313.4	26333.0	26137.6	26069.2	26098.5	26323.2	26118.1	26118.1	26098.5	26074.1
7.5°	26049.7	26059.4	25908.0	25785.9	25864.1	25966.6	25815.2	25888.5	25781.0	25864.1
10°	25654.0	25590.5	25409.8	25375.6	25463.5	25561.2	25458.6	25527.0	25429.3	25492.8
12.5°	25072.7	24975.1	24828.5	24784.6	24936.0	25067.9	24984.8	24945.7	24818.7	24975.1
15°	22830.7	22757.4	23089.6	23670.9	24193.5	24305.9	24217.9	24257.0	23993.2	24037.2
17.5°	18791.1	18654.4	19010.9	20388.4	22352.0	23387.6	23309.4	23055.4	22664.6	22752.6
20°	17076.6	17037.6	16998.5	17325.7	18698.3	21839.1	21946.6	21301.8	20745.0	20622.9
22.5°	16109.5	16094.8	16055.7	16129.0	16490.5	18507.8	19738.7	19142.8	18771.6	18737.4
25°	15225.4	15200.9	15083.7	15176.5	15176.5	15293.7	16871.5	17232.9	16905.7	16866.6
27.5°	14326.6	14282.6	14263.1	14307.0	14082.4	13291.0	13691.6	15454.9	15284.0	15293.7
30°	13354.5	13339.9	13286.2	13379.0	12685.4	11703.5	11449.5	13843.0	13877.2	13867.4
32.5°	11908.7	11972.2	12216.4	12319.0	11176.0	10365.2	9940.2	11977.1	12675.6	12660.9
35°	8650.7	8650.7	9446.9	10926.9	9793.7	9183.1	8953.5	10155.1	11488.6	11537.5
37.5°	7112.0	7136.4	7292.7	7966.8	8450.4	8235.5	8167.1	8548.1	9964.6	10042.8
40°	6398.9	6398.9	6398.9	6120.4	6105.8	7419.7	7380.7	7258.5	8606.7	8777.7
42.5°	5749.2	5763.9	5773.6	5070.2	4679.5	6413.5	6325.6	6140.0	7390.4	7590.7
45°	5080.0	5104.4	5133.7	4239.8	4068.9	4616.0	5353.5	5148.4	6188.8	6447.7
47.5°	3101.7	3140.8	3805.1	3595.1	3614.6	3560.9	4366.8	4332.7	5075.1	5441.5
50°	2095.5	2110.2	2173.7	2281.1	3101.7	2798.9	3092.0	3585.3	3854.0	4410.8
52.5°	1758.5	1782.9	1626.6	1480.0	2036.9	2188.3	2159.0	2662.1	2769.6	3458.3
55°	1235.8	1314.0	1240.7	1226.0	1157.7	1699.8	1636.3	2046.7	2115.0	2627.9
57.5°	127.0	146.5	254.0	913.4	757.1	962.3	1167.4	1499.6	1568.0	1939.2
60°	9.8	9.8	24.4	127.0	552.0	576.4	806.0	923.2	1055.1	1353.0
62.5°	0.0	4.9	9.8	19.5	87.9	307.7	405.4	483.6	635.0	874.3
65°	0.0	0.0	4.9	14.7	19.5	117.2	156.3	254.0	346.8	542.2
67.5°	0.0	0.0	4.9	9.8	14.7	29.3	53.7	92.8	185.6	307.7
70°	0.0	0.0	4.9	9.8	14.7	24.4	39.1	58.6	83.0	166.1
72.5°	0.0	0.0	4.9	4.9	9.8	24.4	29.3	39.1	58.6	83.0
75°	0.0	0.0	4.9	4.9	14.7	29.3	24.4	29.3	39.1	53.7
77.5°	0.0	0.0	4.9	9.8	14.7	29.3	24.4	29.3	29.3	34.2
80°	0.0	0.0	4.9	9.8	19.5	34.2	29.3	29.3	24.4	24.4
82.5°	0.0	0.0	4.9	14.7	19.5	44.0	44.0	39.1	19.5	14.7
85°	0.0	0.0	9.8	19.5	29.3	48.8	48.8	39.1	14.7	9.8
87.5°	0.0	0.0	9.8	14.7	24.4	34.2	48.8	39.1	14.7	4.9
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°
26396.5	0°	26396.5	26396.5	26396.5	26396.5	26396.5	26396.5	26396.5	26396.5	26396.5
26313.4	2.5°	26445.3	26416.0	26513.7	26552.8	26606.5	26401.4	26274.4	26279.2	26044.8
26015.5	5°	26171.8	26176.7	26303.7	26293.9	26347.6	26235.3	26186.4	26103.4	25898.2
25639.4	7.5°	25825.0	25781.0	25903.1	25995.9	25859.2	25937.3	25825.0	25864.1	25741.9
25307.2	10°	25556.3	25453.7	25566.1	25629.6	25634.5	25556.3	25448.9	25346.3	25302.3
24789.4	12.5°	24960.4	24828.5	25019.0	25106.9	25092.3	24940.9	24818.7	24843.2	24701.5
23880.9	15°	24139.8	24144.7	24281.4	24364.5	24286.3	24252.1	24261.9	24203.3	24081.2
22625.6	17.5°	22884.4	22957.7	23319.2	23519.4	23563.4	23495.0	23460.8	23392.4	23270.3
20622.9	20°	20793.8	21233.4	21878.2	22498.6	22620.7	22601.1	22479.0	22449.7	22381.3
18639.7	22.5°	18957.2	19284.5	20031.8	20999.0	21497.2	21546.1	21399.5	21355.6	21282.3
16866.6	25°	17057.1	17408.8	18082.9	19133.1	20163.7	20373.7	20349.3	20217.4	20139.3
15293.7	27.5°	15454.9	15806.6	16417.2	17364.8	18468.7	19142.8	19206.3	18996.3	18991.4
13891.9	30°	14009.1	14492.7	14956.7	15728.5	16798.2	17809.3	17916.8	17770.2	17784.9
12607.2	32.5°	12875.9	13276.4	13672.0	14189.8	15078.8	16256.0	16676.1	16539.3	16485.6
11537.5	35°	11718.2	11991.7	12397.2	12871.0	13476.7	14644.1	15371.9	15269.3	15215.6
10091.6	37.5°	10399.4	10868.3	11161.4	11693.8	12167.6	13095.7	14121.4	14106.8	13994.4
8860.7	40°	9046.3	9539.7	9984.2	10521.5	10887.8	11625.4	12763.5	12758.6	12773.3
7585.8	42.5°	7820.3	8274.5	8811.9	9398.0	9749.7	10287.0	11508.2	11576.5	11659.6
6535.6	45°	6711.5	7121.8	7620.0	8333.2	8758.1	9065.9	10150.2	10462.9	10458.0
5597.8	47.5°	5715.0	6100.9	6521.0	7214.6	7756.8	8035.2	8934.0	9378.5	9349.2
4591.5	50°	4796.7	5138.6	5578.2	6081.4	6809.2	7053.4	7722.6	8308.7	8264.8
3658.6	52.5°	3858.8	4332.7	4703.9	5163.0	5929.9	6169.3	6687.0	7258.5	7224.4
2745.2	55°	3008.9	3468.1	3917.5	4313.1	4957.9	5314.5	5685.7	6271.9	6262.1
2149.2	57.5°	2276.2	2779.3	3204.3	3580.4	4093.3	4532.9	4830.9	5363.3	5431.7
1470.3	60°	1685.2	2071.1	2530.2	2950.3	3355.7	3810.0	4010.3	4532.9	4562.2
1006.2	62.5°	1147.9	1572.8	2022.2	2403.2	2706.1	3175.0	3355.7	3785.6	3839.3
644.8	65°	796.2	1069.7	1582.6	1856.2	2227.4	2627.9	2808.7	3150.6	3258.0
371.2	67.5°	527.5	762.0	1235.8	1484.9	1851.3	2124.8	2354.4	2632.8	2750.0
234.5	70°	288.2	561.7	884.1	1172.3	1489.8	1753.6	1978.3	2203.0	2305.5
107.5	72.5°	195.4	376.1	615.5	928.1	1201.6	1460.5	1660.8	1826.8	1831.7
63.5	75°	97.7	254.0	468.9	718.0	937.8	1191.8	1372.6	1470.3	1353.0
39.1	77.5°	58.6	185.6	381.0	576.4	762.0	962.3	1064.8	1118.6	928.1
29.3	80°	34.2	131.9	298.0	459.2	527.5	708.3	806.0	820.6	620.3
19.5	82.5°	24.4	97.7	234.5	337.0	322.4	498.2	605.7	586.2	395.7
14.7	85°	14.7	68.4	146.5	210.0	195.4	327.3	351.7	361.5	229.6
9.8	87.5°	9.8	39.1	78.2	112.3	92.8	141.7	141.7	171.0	112.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
26396.5
25741.9
25849.4
25536.8
25106.9
24579.4
23959.1
23216.6
22225.0
21262.7
20056.2
18981.6
17711.6
16490.5
15142.3
14087.2
12773.3
11615.6
10467.7
9358.9
8303.9
7297.6
6286.5
5402.4
4606.2
3849.1
3233.6
2735.4
2266.5
1787.8
1265.1
893.9
581.3
366.3
210.0
97.7
0.0

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