

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: P638468

Luminaire Tested: **IFLD-L-SA7A-750-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638468  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-750-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23597.9 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

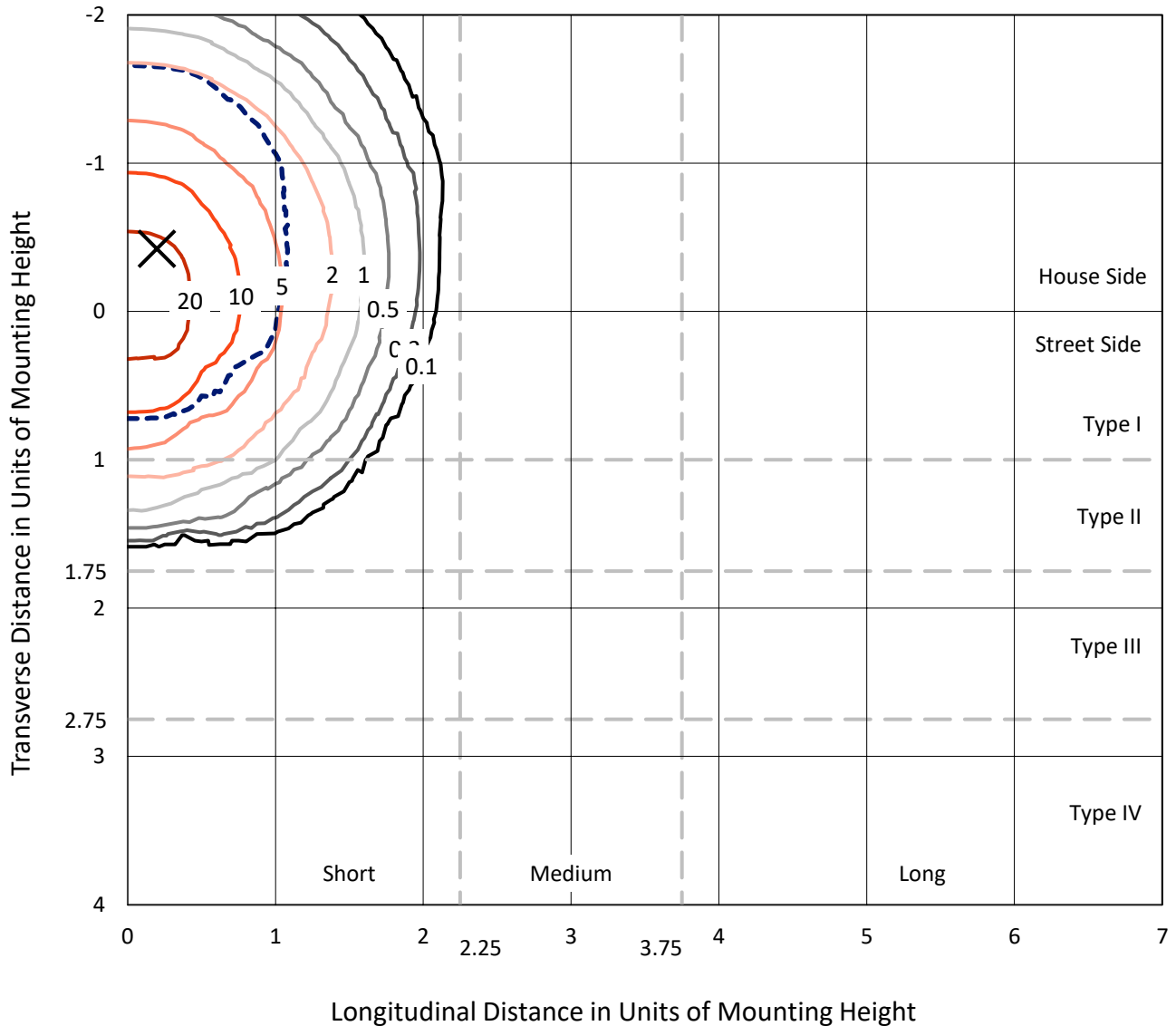
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

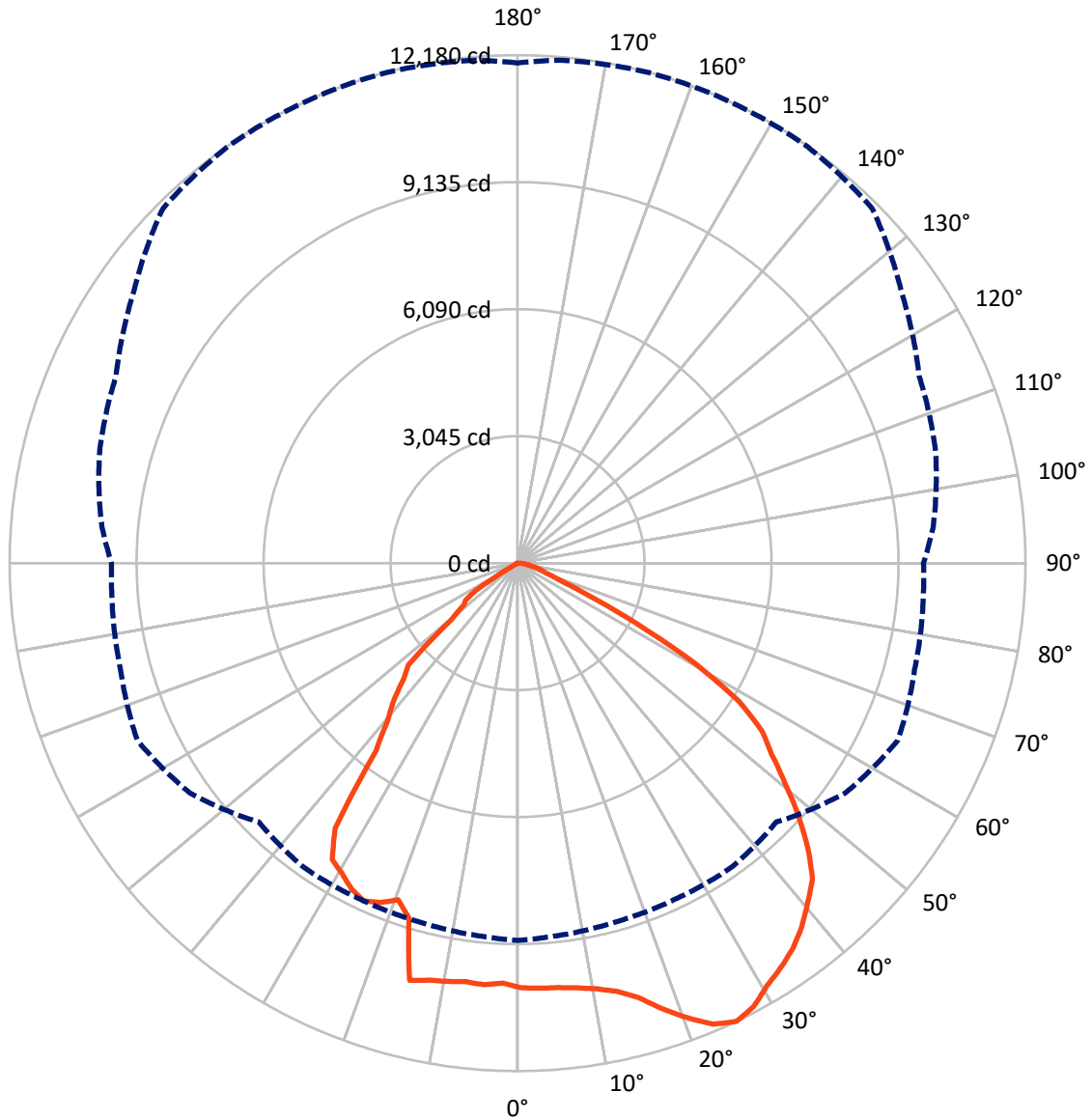
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.5 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
<b>House Side</b>	Lumens	14609.5	0.0	14609.5
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	8988.4	0.0	8988.4
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	23597.9	0.0	23597.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	976.8	4.1
10°-20°	2982.7	12.6
20°-30°	4715.5	20.0
30°-40°	5326.6	22.6
40°-50°	4988.4	21.1
50°-60°	3439.2	14.6
60°-70°	924.0	3.9
70°-80°	192.6	0.8
80°-90°	52.1	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°	23597.9	100.0
0°-180°	23597.9	100.0



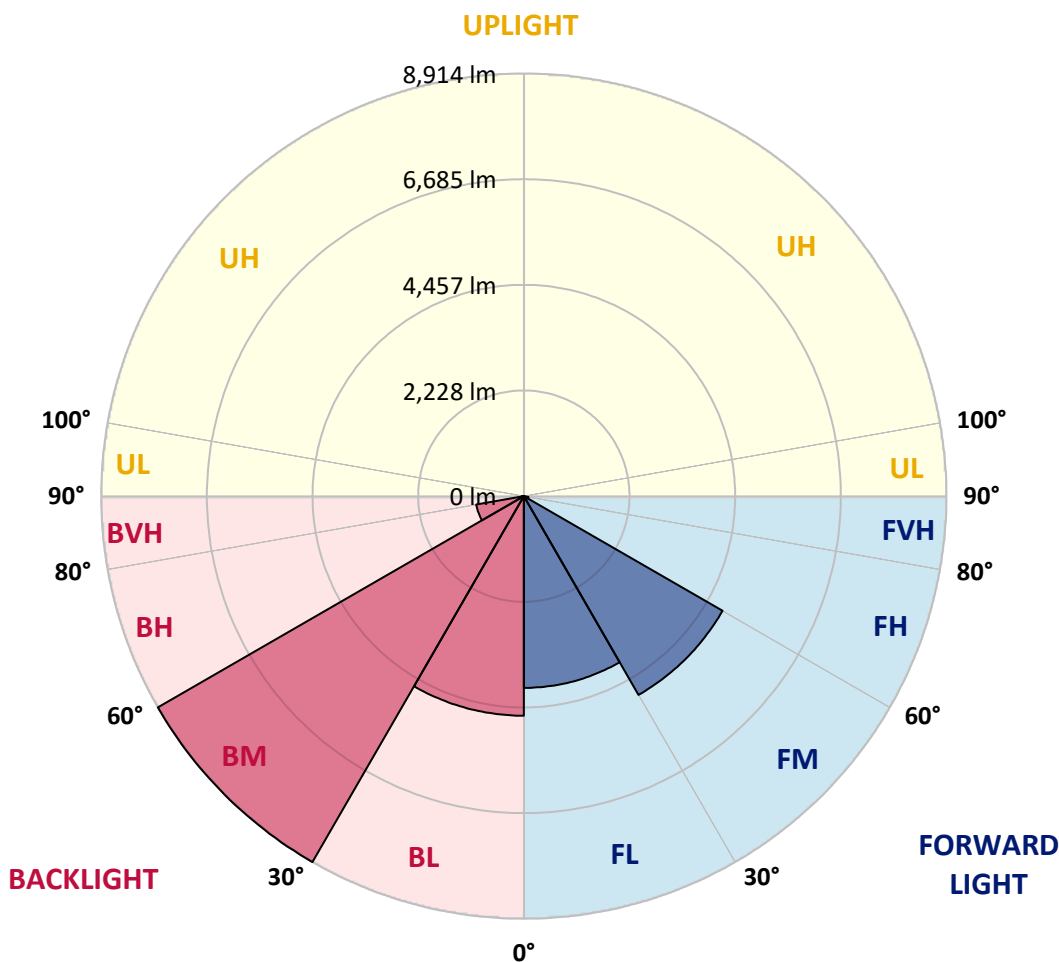
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4043.9	17.1			
FM (30°-60°)	4840.5	20.5			
FH (60°-80°)	97.0	0.4			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	4631.1	19.6	B4/5000		
BM (30°-60°)	8913.8	37.8	B5		
BH (60°-80°)	1019.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	45.1	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°	10182.1	10182.1	10182.1	10182.1	10182.1	10182.1	10182.1	10182.1	10182.1	10182.1
2.5°	10227.2	10161.3	10098.9	10078.0	10164.7	10258.4	10199.4	10202.9	10182.1	10220.2
5°	10303.5	10213.3	10171.7	10140.5	10154.3	10251.4	10168.2	10199.4	10164.7	10209.8
7.5°	10275.7	10213.3	10171.7	10112.7	10157.8	10272.3	10192.5	10196.0	10178.6	10220.2
10°	10258.4	10213.3	10161.3	10168.2	10220.2	10317.3	10254.9	10289.6	10265.3	10289.6
12.5°	10300.0	10251.4	10223.7	10223.7	10268.8	10379.8	10348.5	10379.8	10369.4	10390.2
15°	9908.1	9953.2	10216.8	10334.7	10424.8	10535.8	10521.9	10553.2	10560.1	10591.3
17.5°	8357.9	8312.8	8292.0	8898.9	10511.5	10854.9	10844.5	10841.0	10806.3	10782.1
20°	8562.5	8545.2	8520.9	8566.0	8746.3	11021.3	11090.7	10664.1	10539.3	10528.9
22.5°	8888.5	8860.8	8770.6	8774.1	8829.6	9582.1	10747.4	10359.0	10317.3	10293.1
25°	9048.0	8992.6	8919.7	8898.9	8916.3	8777.5	9599.5	10060.7	9856.1	9762.5
27.5°	8767.1	8770.6	8711.6	8767.1	8701.2	8077.0	7726.7	9478.1	9471.1	9429.5
30°	8555.6	8545.2	8475.8	8545.2	8090.9	7393.8	7244.7	8840.0	8767.1	8711.6
32.5°	7907.1	7914.0	8115.1	8385.7	7640.0	7088.6	6637.8	7896.7	8586.8	8555.6
35°	5656.3	5670.2	6384.6	7719.8	6956.8	6481.7	6447.0	6825.0	8302.4	8316.3
37.5°	5444.8	5444.8	5427.4	5645.9	6419.3	6235.5	6304.8	6266.7	7605.4	7640.0
40°	5292.2	5261.0	5236.7	4893.4	4463.3	6062.1	6110.6	5937.2	7189.2	7196.1
42.5°	5108.4	5073.7	5080.6	4446.0	3995.2	5632.1	5496.8	5264.4	6495.6	6502.5
45°	4772.0	4830.9	4872.6	3891.1	3856.4	4022.9	5070.2	4924.6	6027.4	6155.7
47.5°	2427.6	2479.6	3804.4	3579.0	3658.8	3575.5	4283.0	4286.5	5014.7	5441.3
50°	2202.2	2188.3	2191.8	2087.7	3377.8	2892.3	3096.9	3929.3	4016.0	4626.3
52.5°	2053.1	2049.6	1838.0	1633.4	2122.4	2545.5	2247.3	2843.8	2986.0	3918.9
55°	1519.0	1630.0	1449.6	1536.3	1328.2	2039.2	2028.8	2566.3	2614.9	3142.0
57.5°	13.9	17.3	41.6	1168.7	919.0	1019.6	1401.1	1751.3	1838.0	2448.4
60°	3.5	6.9	17.3	34.7	596.5	627.7	936.4	1012.7	1141.0	1460.0
62.5°	0.0	0.0	6.9	17.3	31.2	256.6	298.2	326.0	502.9	745.6
65°	0.0	0.0	3.5	10.4	17.3	41.6	72.8	152.6	218.5	270.5
67.5°	0.0	0.0	3.5	6.9	13.9	20.8	41.6	59.0	93.6	159.5
70°	0.0	0.0	3.5	6.9	10.4	17.3	27.7	41.6	55.5	79.8
72.5°	0.0	0.0	3.5	6.9	6.9	20.8	20.8	31.2	41.6	52.0
75°	0.0	0.0	3.5	3.5	6.9	13.9	20.8	24.3	27.7	41.6
77.5°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	27.7	24.3	24.3
80°	0.0	0.0	3.5	10.4	10.4	17.3	20.8	27.7	17.3	17.3
82.5°	0.0	0.0	3.5	13.9	10.4	34.7	34.7	38.1	13.9	13.9
85°	0.0	0.0	10.4	6.9	20.8	34.7	31.2	20.8	17.3	10.4
87.5°	0.0	0.0	3.5	3.5	6.9	10.4	24.3	20.8	6.9	6.9
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°
10182.1	0°	10182.1	10182.1	10182.1	10182.1	10182.1	10182.1	10182.1	10182.1	10182.1
10119.7	2.5°	10258.4	10213.3	10306.9	10296.5	10251.4	10230.6	10206.4	10185.6	10033.0
10126.6	5°	10261.8	10192.5	10306.9	10286.1	10279.2	10244.5	10223.7	10254.9	10116.2
10154.3	7.5°	10261.8	10192.5	10317.3	10324.3	10313.9	10286.1	10282.7	10303.5	10189.0
10202.9	10°	10331.2	10303.5	10407.5	10417.9	10404.0	10397.1	10379.8	10365.9	10244.5
10369.4	12.5°	10476.9	10421.4	10539.3	10570.5	10560.1	10577.4	10535.8	10556.6	10431.8
10539.3	15°	10653.7	10657.2	10747.4	10816.7	10809.8	10865.3	10802.9	10858.3	10768.2
10733.5	17.5°	10924.2	10962.4	11090.7	11194.7	11232.9	11274.5	11232.9	11250.2	11121.9
10518.5	20°	10639.9	10782.1	11399.4	11590.1	11669.9	11708.0	11638.6	11659.5	11531.1
10254.9	22.5°	10383.2	10567.0	11115.0	11711.5	11957.7	12034.0	12009.7	12006.3	11957.7
9734.7	25°	10005.2	10376.3	10622.5	11253.7	12027.1	12165.8	12179.7	12176.2	12103.4
9415.7	27.5°	9540.5	9623.7	10261.8	10646.8	11541.5	12068.7	12047.9	11947.3	11850.2
8753.3	30°	8947.5	9325.5	9613.3	10227.2	10913.8	11770.4	11770.4	11694.1	11593.6
8517.4	32.5°	8645.8	9134.7	9401.8	9623.7	10209.8	11437.5	11576.2	11496.5	11416.7
8333.6	35°	8486.2	8559.1	9183.3	9384.4	9880.4	10795.9	11357.7	11278.0	11219.0
7844.6	37.5°	8136.0	8305.9	8597.2	9134.7	9287.3	10272.3	11066.4	11024.8	10955.5
7210.0	40°	7355.7	7810.0	8257.3	8767.1	8926.7	9599.5	10712.7	10730.0	10636.4
6533.7	42.5°	6894.4	7203.1	7903.6	8246.9	8677.0	9166.0	10369.4	10397.1	10331.2
6190.4	45°	6353.4	6696.7	7189.2	7813.4	8399.5	8569.5	9762.5	10053.8	9998.3
5507.2	47.5°	5857.5	6134.9	6738.3	7369.5	8018.0	7993.8	9065.4	9613.3	9537.0
4983.5	50°	5153.5	5639.0	5923.4	6502.5	7470.1	7536.0	8323.2	9096.6	9034.2
4234.4	52.5°	4345.4	4955.8	5500.3	6030.9	6915.2	7071.3	7633.1	8569.5	8527.8
3235.7	55°	3797.5	4241.4	4855.2	5281.8	6242.4	6658.6	7116.4	8066.6	8045.8
2660.0	57.5°	2701.6	3558.2	4064.5	4661.0	5167.3	5919.9	6259.8	7043.5	6849.3
1473.9	60°	1831.1	2233.4	2850.7	3492.3	3832.2	4584.7	4900.3	5528.0	5476.0
880.9	62.5°	967.6	1338.7	1779.1	2101.6	2347.8	3079.6	3211.4	3887.6	3870.3
353.7	65°	426.6	565.3	964.1	1130.6	1383.7	1723.6	1838.0	2080.8	2021.9
173.4	67.5°	222.0	336.4	544.5	669.3	842.7	971.0	1064.7	1141.0	1189.5
114.4	70°	135.3	246.2	336.4	464.7	579.2	683.2	756.0	860.1	922.5
59.0	72.5°	100.6	156.1	232.4	357.2	419.6	541.0	613.8	690.1	745.6
48.6	75°	55.5	104.0	187.3	280.9	336.4	440.4	506.3	558.3	575.7
27.7	77.5°	34.7	79.8	156.1	218.5	263.6	357.2	339.9	388.4	430.0
20.8	80°	24.3	59.0	121.4	180.3	183.8	228.9	270.5	312.1	339.9
13.9	82.5°	17.3	48.6	90.2	138.7	121.4	176.9	211.5	242.8	176.9
10.4	85°	13.9	34.7	45.1	83.2	69.4	124.8	107.5	104.0	69.4
6.9	87.5°	10.4	17.3	31.2	38.1	27.7	27.7	34.7	41.6	34.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
10182.1  
9928.9  
9998.3  
10057.2  
10143.9  
10320.8  
10619.1  
11010.9  
11441.0  
11801.6  
*11992.4*  
11773.9  
11555.4  
11350.8  
11135.8  
10886.1  
10615.6  
10324.3  
10005.2  
9592.5  
9044.6  
8555.6  
8070.1  
6828.5  
5479.5  
3873.8  
1997.6  
1189.5  
926.0  
756.0  
565.3  
437.0  
343.3  
128.3  
69.4  
34.7  
0.0

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