

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: P638133

Luminaire Tested: **IFLD-S-SA2E-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638133
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13731 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

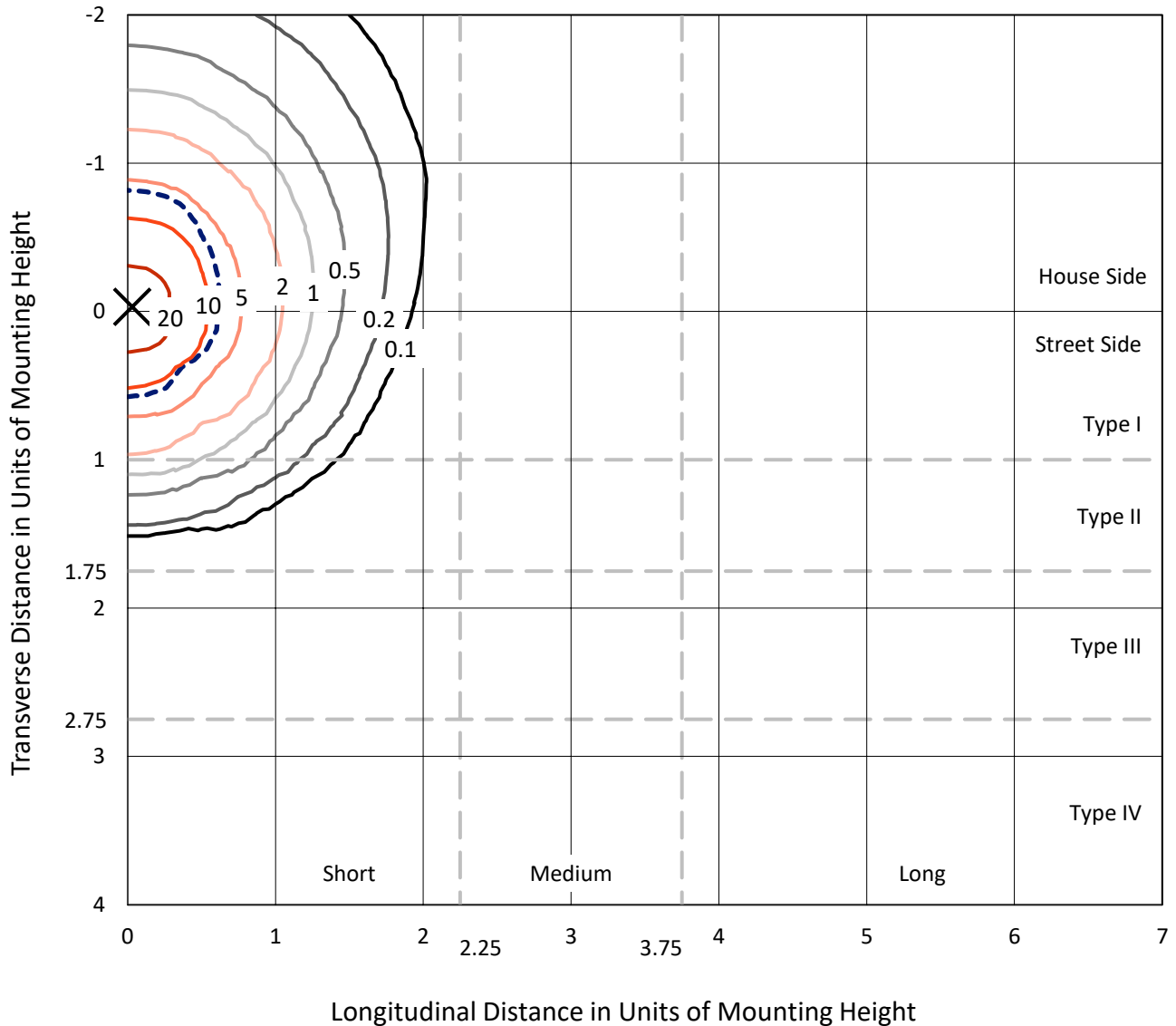
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

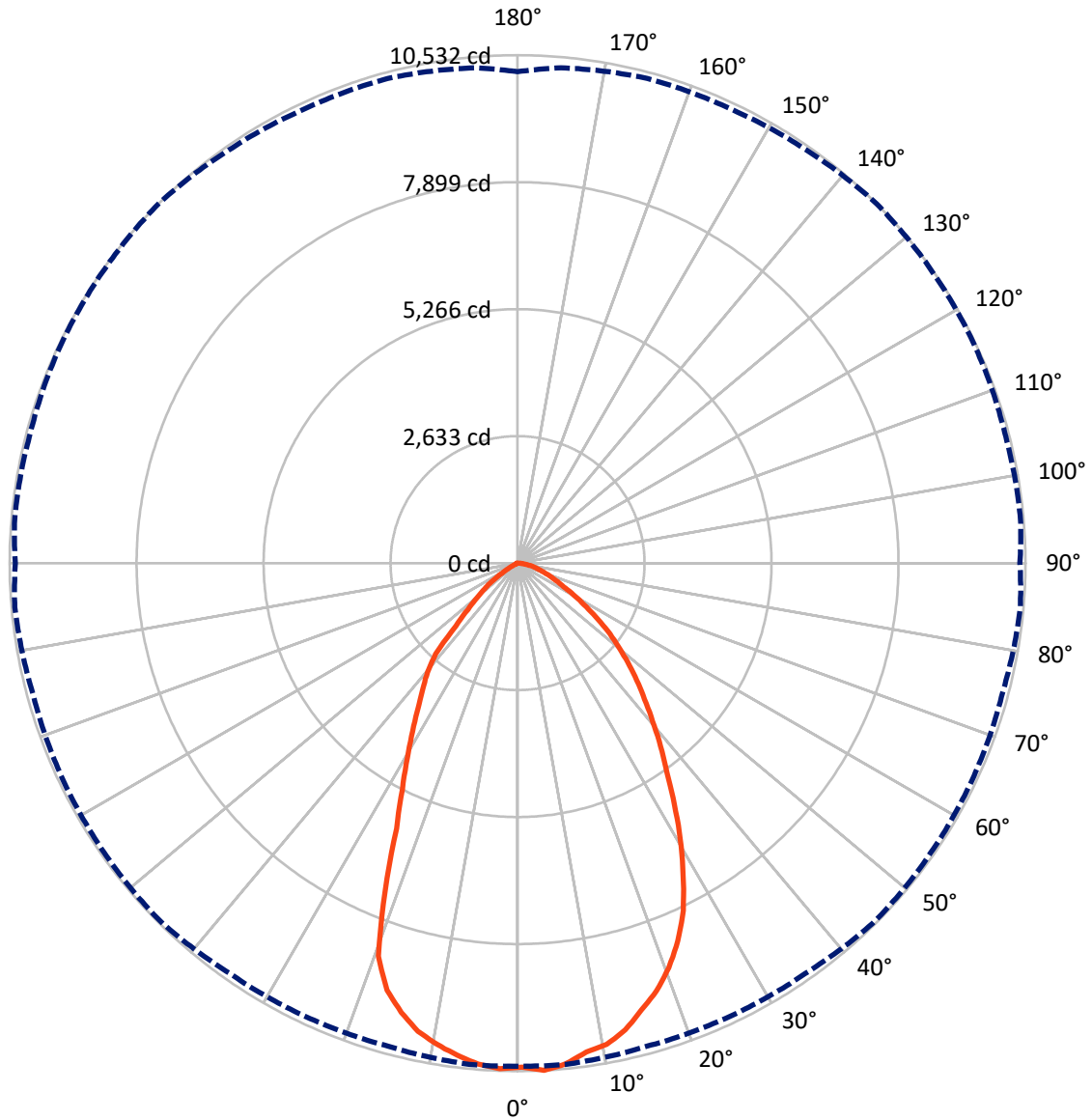
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.1 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	8132.2	0.0	8132.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5598.8	0.0	5598.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	13731.0	0.0	13731.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.0	7.1
10°-20°	2627.9	19.1
20°-30°	3204.8	23.3
30°-40°	2926.0	21.3
40°-50°	2114.5	15.4
50°-60°	1154.6	8.4
60°-70°	477.4	3.5
70°-80°	193.3	1.4
80°-90°	52.6	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°	13731.0	100.0
0°-180°	13731.0	100.0



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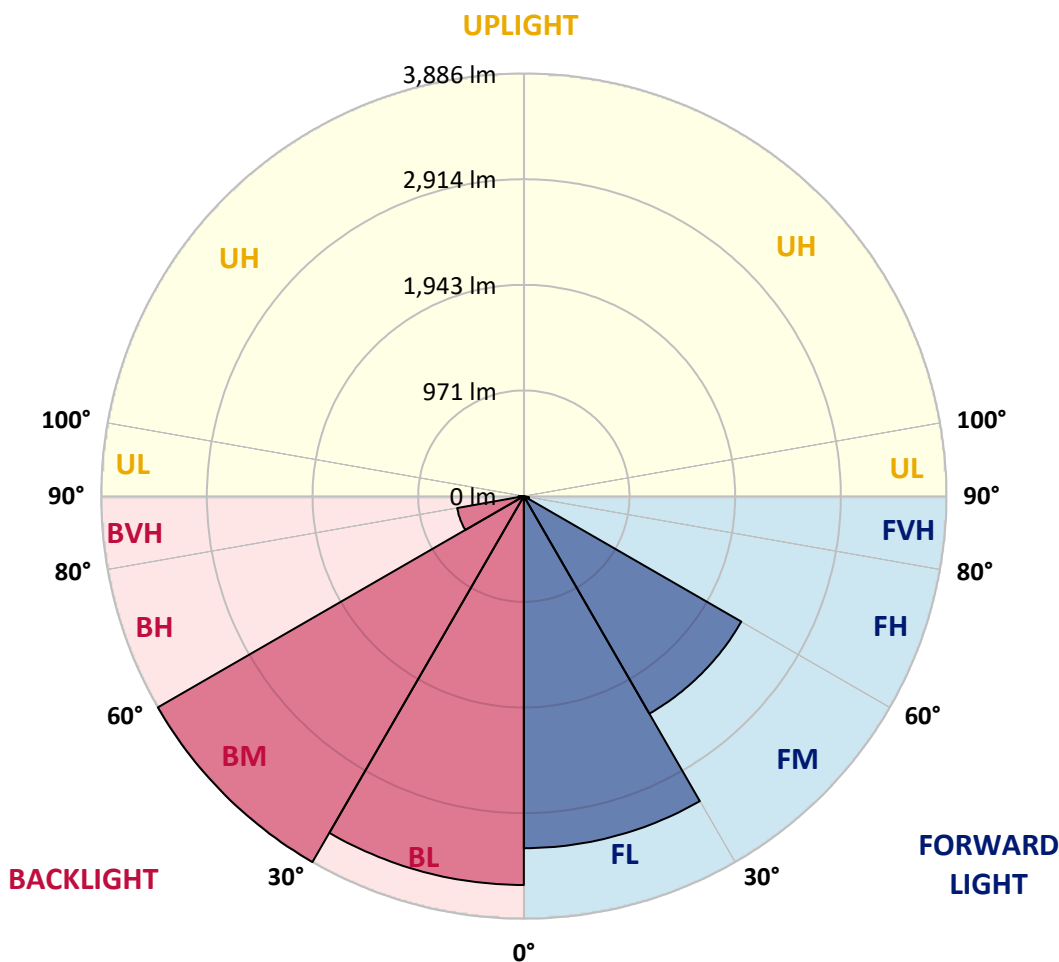
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3236.9	23.6			
FM (30°-60°)	2309.3	16.8			
FH (60°-80°)	48.4	0.4			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	3575.8	26.0	B4/5000		
BM (30°-60°)	3885.8	28.3	B3/5000		
BH (60°-80°)	622.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	48.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10449.3	10449.3	10449.3	10449.3	10449.3	10449.3	10449.3	10449.3	10449.3	10449.3
2.5°	10429.9	10443.5	10370.0	10377.7	10391.3	10489.9	10464.7	10441.5	10408.7	10464.7
5°	10416.4	10424.1	10346.8	10319.7	10331.3	10420.3	10339.0	10339.0	10331.3	10321.6
7.5°	10312.0	10315.8	10255.9	10207.6	10238.5	10279.1	10219.2	10248.2	10205.6	10238.5
10°	10155.4	10130.2	10058.7	10045.1	10079.9	10118.6	10078.0	10105.1	10066.4	10091.5
12.5°	9925.3	9886.6	9828.6	9811.2	9871.1	9923.3	9890.4	9875.0	9824.7	9886.6
15°	9037.7	9008.7	9140.2	9370.3	9577.2	9621.7	9586.9	9602.3	9497.9	9515.3
17.5°	7438.6	7384.5	7525.6	8070.9	8848.2	9258.2	9227.2	9126.7	8972.0	9006.8
20°	6759.9	6744.5	6729.0	6858.5	7401.9	8645.2	8687.7	8432.5	8212.1	8163.7
22.5°	6377.1	6371.3	6355.8	6384.8	6527.9	7326.5	7813.7	7577.8	7430.9	7417.4
25°	6027.1	6017.4	5971.0	6007.7	6007.7	6054.2	6678.7	6821.8	6692.2	6676.8
27.5°	5671.3	5653.9	5646.2	5663.6	5574.6	5261.4	5419.9	6118.0	6050.3	6054.2
30°	5286.5	5280.7	5259.4	5296.2	5021.6	4632.9	4532.4	5479.9	5493.4	5489.5
32.5°	4714.2	4739.3	4836.0	4876.6	4424.1	4103.1	3934.9	4741.2	5017.7	5011.9
35°	3424.4	3424.4	3739.6	4325.5	3876.9	3635.2	3544.3	4020.0	4547.9	4567.2
37.5°	2815.3	2825.0	2886.9	3153.7	3345.2	3260.1	3233.0	3383.8	3944.6	3975.5
40°	2533.0	2533.0	2533.0	2422.8	2417.0	2937.2	2921.7	2873.4	3407.0	3474.7
42.5°	2275.9	2281.7	2285.5	2007.1	1852.4	2538.8	2504.0	2430.6	2925.6	3004.8
45°	2011.0	2020.6	2032.2	1678.4	1610.7	1827.3	2119.2	2038.0	2449.9	2552.4
47.5°	1227.8	1243.3	1506.3	1423.1	1430.9	1409.6	1728.7	1715.1	2009.0	2154.0
50°	829.5	835.3	860.5	903.0	1227.8	1108.0	1224.0	1419.3	1525.6	1746.1
52.5°	696.1	705.8	643.9	585.9	806.3	866.3	854.7	1053.8	1096.4	1369.0
55°	489.2	520.1	491.1	485.3	458.3	672.9	647.8	810.2	837.3	1040.3
57.5°	50.3	58.0	100.5	361.6	299.7	380.9	462.1	593.6	620.7	767.6
60°	3.9	3.9	9.7	50.3	218.5	228.2	319.0	365.5	417.7	535.6
62.5°	0.0	1.9	3.9	7.7	34.8	121.8	160.5	191.4	251.4	346.1
65°	0.0	0.0	1.9	5.8	7.7	46.4	61.9	100.5	137.3	214.6
67.5°	0.0	0.0	1.9	3.9	5.8	11.6	21.3	36.7	73.5	121.8
70°	0.0	0.0	1.9	3.9	5.8	9.7	15.5	23.2	32.9	65.7
72.5°	0.0	0.0	1.9	1.9	3.9	9.7	11.6	15.5	23.2	32.9
75°	0.0	0.0	1.9	1.9	5.8	11.6	9.7	11.6	15.5	21.3
77.5°	0.0	0.0	1.9	3.9	5.8	11.6	9.7	11.6	11.6	13.5
80°	0.0	0.0	1.9	3.9	7.7	13.5	11.6	11.6	9.7	9.7
82.5°	0.0	0.0	1.9	5.8	7.7	17.4	17.4	15.5	7.7	5.8
85°	0.0	0.0	3.9	7.7	11.6	19.3	19.3	15.5	5.8	3.9
87.5°	0.0	0.0	3.9	5.8	9.7	13.5	19.3	15.5	5.8	1.9
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°
10449.3	0°	10449.3	10449.3	10449.3	10449.3	10449.3	10449.3	10449.3	10449.3	10449.3
10416.4	2.5°	10468.6	10457.0	10495.7	10511.1	10532.4	10451.2	10400.9	10402.9	10310.0
10298.4	5°	10360.3	10362.3	10412.5	10408.7	10429.9	10385.5	10366.1	10333.2	10252.0
10149.6	7.5°	10223.0	10205.6	10254.0	10290.7	10236.6	10267.5	10223.0	10238.5	10190.2
10018.1	10°	10116.7	10076.1	10120.5	10145.7	10147.6	10116.7	10074.1	10033.5	10016.1
9813.1	12.5°	9880.8	9828.6	9904.0	9938.8	9933.0	9873.0	9824.7	9834.4	9778.3
9453.5	15°	9555.9	9557.9	9612.0	9644.9	9613.9	9600.4	9604.3	9581.1	9532.7
8956.5	17.5°	9059.0	9088.0	9231.1	9310.4	9327.8	9300.7	9287.2	9260.1	9211.7
8163.7	20°	8231.4	8405.4	8660.7	8906.2	8954.6	8946.8	8898.5	8886.9	8859.8
7378.7	22.5°	7504.4	7633.9	7929.8	8312.6	8509.8	8529.2	8471.2	8453.8	8424.8
6676.8	25°	6752.2	6891.4	7158.2	7574.0	7982.0	8065.1	8055.4	8003.2	7972.3
6054.2	27.5°	6118.0	6257.2	6498.9	6874.0	7311.0	7577.8	7603.0	7519.8	7517.9
5499.2	30°	5545.6	5737.0	5920.7	6226.2	6649.7	7050.0	7092.5	7034.5	7040.3
4990.7	32.5°	5097.0	5255.6	5412.2	5617.2	5969.1	6435.1	6601.4	6547.2	6526.0
4567.2	35°	4638.7	4747.0	4907.5	5095.1	5334.8	5797.0	6085.1	6044.5	6023.2
3994.9	37.5°	4116.7	4302.3	4418.3	4629.1	4816.6	5184.0	5590.1	5584.3	5539.8
3507.6	40°	3581.1	3776.4	3952.3	4165.0	4310.0	4602.0	5052.5	5050.6	5056.4
3002.9	42.5°	3095.7	3275.5	3488.2	3720.3	3859.5	4072.2	4555.6	4582.7	4615.5
2587.2	45°	2656.8	2819.2	3016.4	3298.7	3467.0	3588.8	4018.1	4141.8	4139.9
2215.9	47.5°	2262.3	2415.1	2581.4	2856.0	3070.6	3180.8	3536.6	3712.5	3700.9
1817.6	50°	1898.8	2034.2	2208.2	2407.4	2695.5	2792.1	3057.0	3289.1	3271.7
1448.3	52.5°	1527.6	1715.1	1862.1	2043.8	2347.4	2442.2	2647.1	2873.4	2859.8
1086.7	55°	1191.1	1372.9	1550.8	1707.4	1962.6	2103.8	2250.7	2482.8	2478.9
850.8	57.5°	901.1	1100.2	1268.5	1417.3	1620.4	1794.4	1912.3	2123.1	2150.2
582.0	60°	667.1	819.9	1001.6	1167.9	1328.4	1508.2	1587.5	1794.4	1806.0
398.3	62.5°	454.4	622.6	800.5	951.3	1071.2	1256.9	1328.4	1498.6	1519.8
255.2	65°	315.2	423.5	626.5	734.8	881.7	1040.3	1111.8	1247.2	1289.7
147.0	67.5°	208.8	301.6	489.2	587.8	732.8	841.1	932.0	1042.2	1088.6
92.8	70°	114.1	222.4	350.0	464.1	589.8	694.2	783.1	872.1	912.7
42.5	72.5°	77.3	148.9	243.6	367.4	475.7	578.2	657.4	723.2	725.1
25.1	75°	38.7	100.5	185.6	284.2	371.3	471.8	543.3	582.0	535.6
15.5	77.5°	23.2	73.5	150.8	228.2	301.6	380.9	421.5	442.8	367.4
11.6	80°	13.5	52.2	118.0	181.8	208.8	280.4	319.0	324.8	245.6
7.7	82.5°	9.7	38.7	92.8	133.4	127.6	197.2	239.8	232.0	156.6
5.8	85°	5.8	27.1	58.0	83.1	77.3	129.6	139.2	143.1	90.9
3.9	87.5°	3.9	15.5	30.9	44.5	36.7	56.1	56.1	67.7	44.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<hr/>
10449.3
10190.2
10232.7
10108.9
9938.8
9730.0
9484.4
9190.5
8798.0
8417.0
7939.4
7514.0
7011.3
6527.9
5994.2
5576.6
5056.4
4598.1
4143.7
3704.8
3287.1
2888.8
2488.6
2138.6
1823.4
1523.7
1280.1
1082.8
897.2
707.7
500.8
353.9
230.1
145.0
83.1
38.7
0.0

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