

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: P638038

Luminaire Tested: **IFLD-L-SA8A-830-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638038  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-830-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22952.2 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

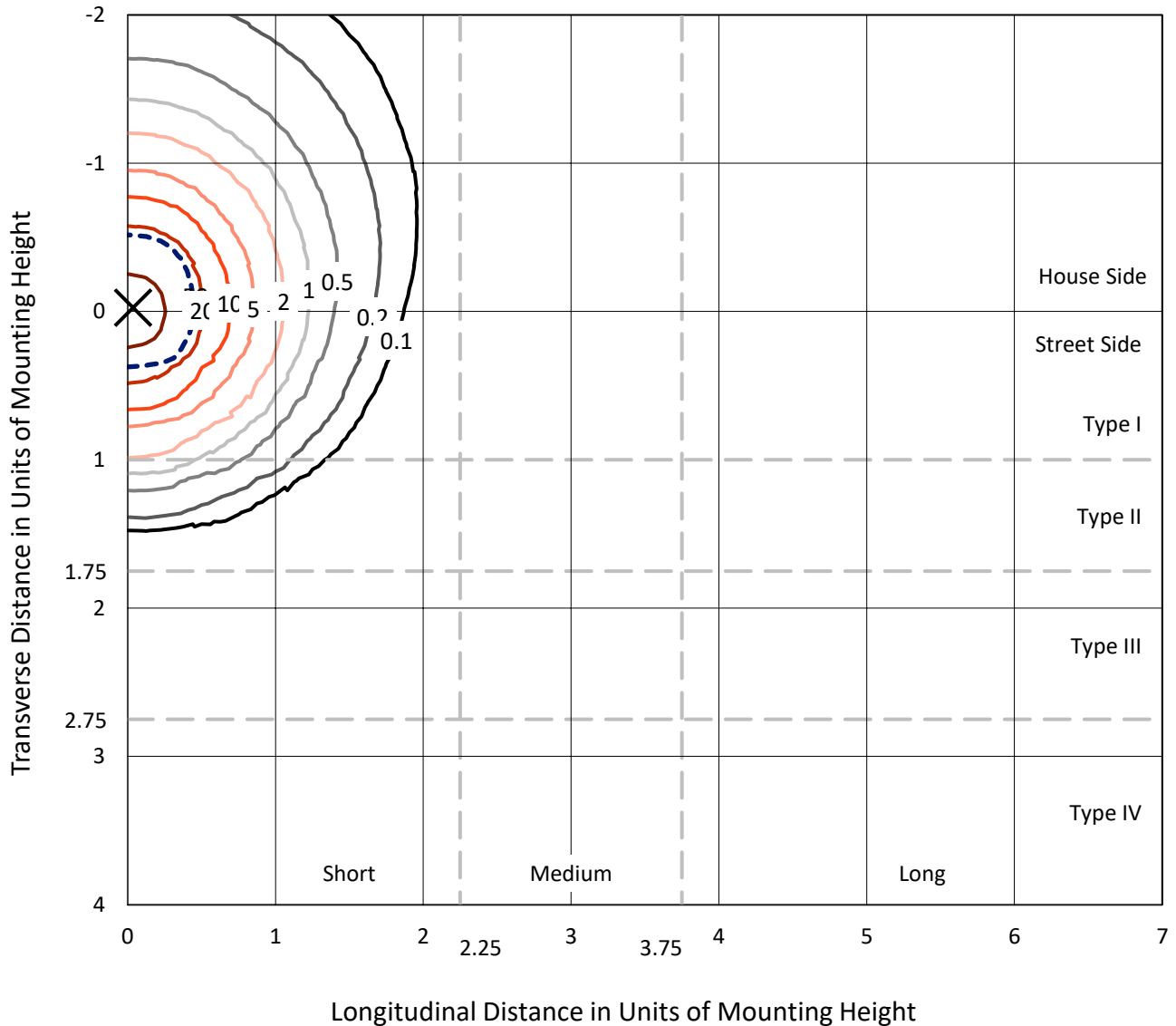
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

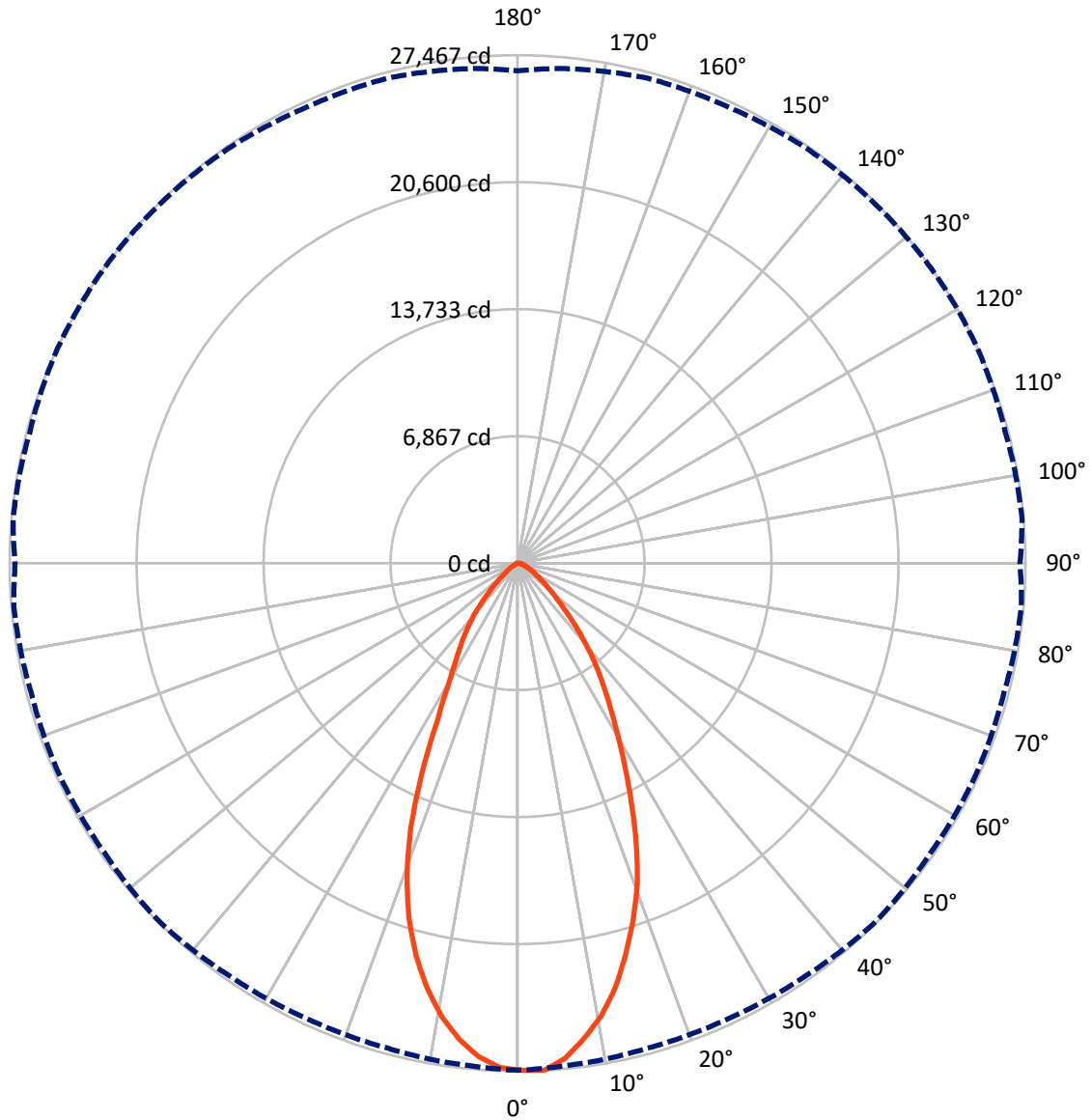
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 68.6 fc  
 Type I - Short - N/A

REPORT NUMBER: P638038  
CATALOG NUMBER: IFLD-L-SA8A-830-U-66-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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CATALOG NUMBER: IFLD-L-SA8A-830-U-66-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13024.0	0.0	13024.0
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	9928.2	0.0	9928.2
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	22952.2	0.0	22952.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2490.1	10.8
10°-20°	5935.7	25.9
20°-30°	6045.4	26.3
30°-40°	4508.1	19.6
40°-50°	2355.1	10.3
50°-60°	990.6	4.3
60°-70°	404.5	1.8
70°-80°	170.2	0.7
80°-90°	52.4	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°	22952.2	100.0
0°-180°	22952.2	100.0



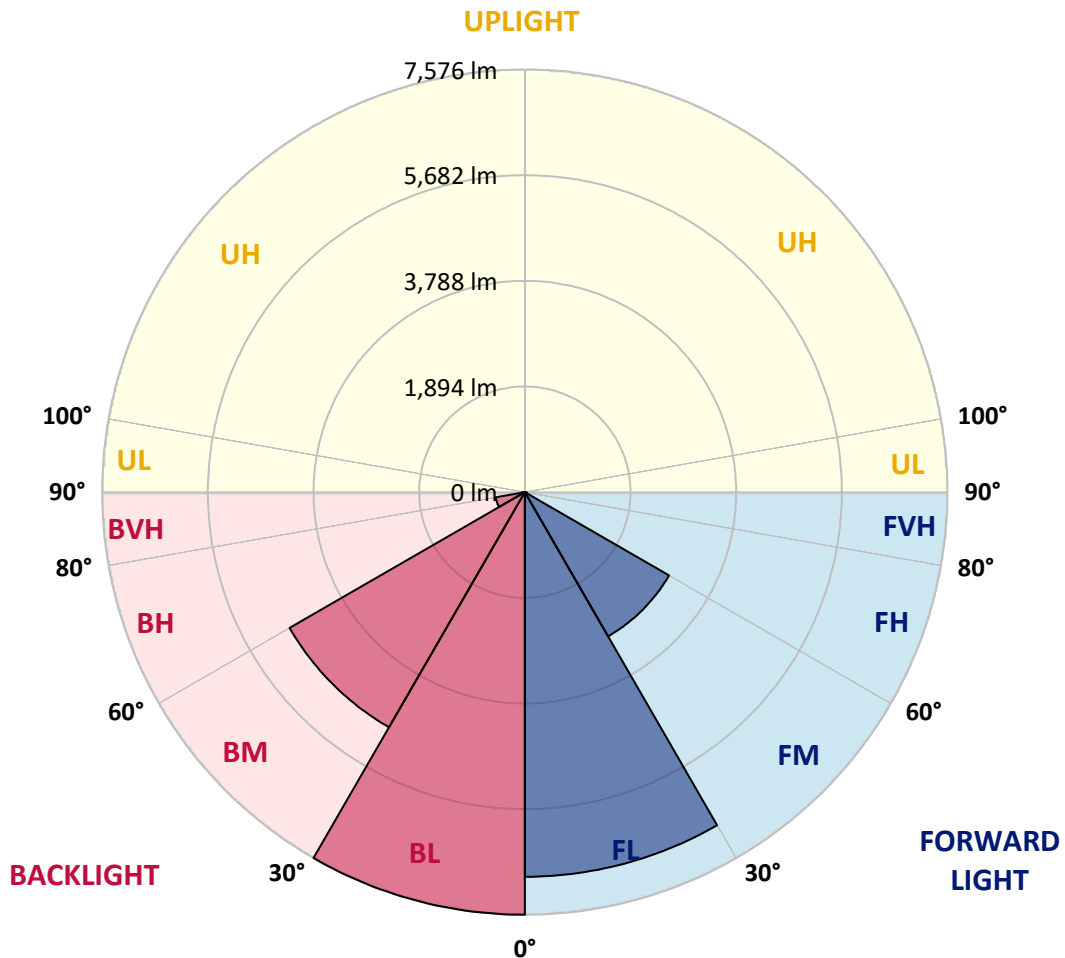
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6895.1	30.0			
FM (30°-60°)	2985.0	13.0			
FH (60°-80°)	43.2	0.2			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	7576.1	33.0	B5		
BM (30°-60°)	4868.7	21.2	B3/5000		
BH (60°-80°)	531.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	47.6	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-G2**

Type I Short





REPORT NUMBER: P638038  
 CATALOG NUMBER: IFLD-L-SA8A-830-U-66-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27422.4	27422.4	27422.4	27422.4	27422.4	27422.4	27422.4	27422.4	27422.4	27422.4
2.5°	27425.3	27313.3	27154.1	27139.3	27221.9	27401.7	27286.8	27292.6	27221.9	27342.8
5°	26994.9	26888.7	26779.6	26635.2	26756.1	26832.7	26773.7	26708.9	26617.5	26735.4
7.5°	26181.1	26122.2	25960.0	25895.1	25968.9	26054.4	25927.6	25909.9	25783.1	25936.4
10°	24936.9	24913.3	24754.1	24715.8	24780.7	24910.4	24854.4	24842.6	24763.0	24748.2
12.5°	23645.6	23554.2	23356.6	23344.8	23442.1	23636.7	23486.4	23341.9	23386.1	23424.4
15°	20319.9	20222.6	20712.0	21481.5	21885.4	21870.7	21914.9	21741.0	21687.9	21705.6
17.5°	16153.9	15988.8	16165.7	17356.8	19276.2	20390.6	20084.0	19709.6	19509.1	19376.4
20°	13942.6	13951.5	13919.0	14225.7	15422.7	17964.1	17890.4	17168.1	16905.7	16796.6
22.5°	12598.2	12548.1	12477.3	12574.6	12896.0	14387.8	15387.3	14723.9	14632.5	14511.7
25°	11280.3	11280.3	11194.8	11292.1	11383.5	11404.1	12406.6	12677.8	12500.9	12500.9
27.5°	10139.3	10080.3	10042.0	10086.2	9965.3	9384.5	9511.3	10900.0	10779.1	10705.4
30°	9007.1	8989.4	8924.6	8983.5	8535.4	7880.9	7615.5	9198.8	9325.6	9299.0
32.5°	7435.7	7506.4	7795.4	7886.8	7120.2	6592.5	6338.9	7636.2	8143.3	8122.6
35°	5053.4	5112.4	5442.6	6533.5	5902.5	5525.2	5451.5	6073.6	6907.9	6987.5
37.5°	4024.5	4015.6	4110.0	4304.6	4743.9	4652.5	4631.8	4794.0	5634.2	5669.6
40°	3316.9	3305.1	3302.1	3142.9	3033.8	3868.2	3812.2	3714.9	4443.1	4513.9
42.5°	2674.1	2685.9	2694.8	2346.9	2187.7	2983.7	2951.3	2851.0	3484.9	3567.5
45°	2099.2	2096.3	2113.9	1748.4	1704.1	1907.6	2205.3	2125.7	2629.9	2718.4
47.5°	1087.9	1126.3	1365.1	1353.3	1373.9	1353.3	1668.8	1648.1	1978.3	2119.8
50°	731.2	743.0	763.6	766.6	1082.0	996.5	1132.2	1282.5	1385.7	1603.9
52.5°	566.1	574.9	521.9	489.4	663.4	737.1	743.0	887.4	967.1	1188.2
55°	315.5	353.8	380.3	383.3	365.6	545.4	542.5	657.5	719.4	866.8
57.5°	41.3	50.1	76.7	247.7	244.7	303.7	380.3	477.6	513.0	633.9
60°	2.9	5.9	8.8	38.3	162.2	176.9	259.5	297.8	356.7	445.2
62.5°	0.0	0.0	2.9	8.8	32.4	103.2	135.6	156.3	209.3	291.9
65°	0.0	0.0	2.9	5.9	11.8	38.3	53.1	85.5	123.8	179.8
67.5°	0.0	0.0	2.9	5.9	8.8	14.7	23.6	38.3	64.9	109.1
70°	0.0	0.0	2.9	5.9	8.8	11.8	17.7	23.6	35.4	59.0
72.5°	0.0	0.0	2.9	2.9	5.9	14.7	14.7	17.7	23.6	32.4
75°	0.0	0.0	2.9	5.9	8.8	14.7	14.7	14.7	17.7	20.6
77.5°	0.0	0.0	2.9	5.9	8.8	14.7	11.8	14.7	14.7	14.7
80°	0.0	0.0	2.9	5.9	8.8	14.7	17.7	14.7	11.8	11.8
82.5°	0.0	0.0	2.9	8.8	8.8	20.6	20.6	20.6	8.8	8.8
85°	0.0	0.0	5.9	8.8	14.7	23.6	23.6	17.7	8.8	5.9
87.5°	0.0	0.0	2.9	5.9	5.9	11.8	17.7	14.7	5.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638038

CATALOG NUMBER: IFLD-L-SA8A-830-U-66-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
27422.4	0°	27422.4	27422.4	27422.4	27422.4	27422.4	27422.4	27422.4	27422.4	27422.4
27165.9	2.5°	27384.0	27310.3	27448.9	27466.6	27407.6	27333.9	27162.9	27148.2	26850.4
26564.4	5°	26865.1	26744.3	26832.7	26891.7	26871.0	26791.4	26720.7	26655.8	26387.5
25588.5	7.5°	25898.1	25853.9	25895.1	25939.4	26024.9	25939.4	25909.9	25842.1	25576.7
24627.4	10°	24824.9	24742.3	24898.6	24878.0	24854.4	24830.8	24707.0	24718.8	24406.2
23318.3	12.5°	23507.0	23368.4	23518.8	23536.5	23518.8	23436.2	23297.7	23356.6	23070.6
21549.3	15°	21735.1	21720.3	21829.4	21900.2	21950.3	21861.8	21814.7	21844.1	21673.1
19273.2	17.5°	19559.2	19750.8	20107.6	20228.5	20231.4	20322.8	20296.3	20260.9	20134.1
16752.4	20°	17000.0	17368.6	17917.0	18480.1	18642.3	18565.6	18530.2	18595.1	18406.4
14384.9	22.5°	14638.4	14953.9	15590.7	16413.3	16888.0	16935.2	16926.3	16870.3	16796.6
12489.1	25°	12633.6	12913.7	13524.0	14275.8	15186.8	15322.4	15328.3	15310.7	15245.8
10770.2	27.5°	10941.2	11280.3	11616.4	12288.6	13258.6	13818.8	13748.0	13727.4	13703.8
9319.7	30°	9408.1	9835.6	10151.1	10569.7	11439.5	12197.2	12270.9	12235.6	12179.5
8119.7	32.5°	8193.4	8447.0	8847.9	9131.0	9756.0	10614.0	10897.0	10870.5	10820.4
7037.7	35°	7137.9	7238.1	7553.6	7869.1	8284.8	9116.2	9534.9	9475.9	9467.1
5734.5	37.5°	5879.0	6215.1	6389.0	6707.4	6999.3	7645.0	8222.9	8196.3	8199.3
4611.2	40°	4746.8	4941.4	5286.3	5554.6	5822.9	6294.7	6937.4	6955.1	6949.2
3570.4	42.5°	3644.1	3832.8	4195.5	4487.4	4726.2	5018.0	5631.3	5651.9	5678.5
2780.3	45°	2845.1	2966.0	3231.4	3535.0	3788.6	3965.5	4431.3	4564.0	4567.0
2155.2	47.5°	2208.3	2346.9	2535.6	2827.4	3075.1	3201.9	3540.9	3720.8	3711.9
1654.0	50°	1733.6	1860.4	2013.7	2243.7	2512.0	2612.2	2862.8	3039.7	3030.9
1247.1	52.5°	1326.7	1488.9	1624.5	1801.4	2063.8	2149.3	2329.2	2532.6	2503.1
914.0	55°	1005.4	1170.5	1297.3	1444.7	1683.5	1792.6	1916.4	2078.6	2084.5
707.6	57.5°	757.7	928.7	1043.7	1194.1	1373.9	1494.8	1589.1	1763.1	1760.2
483.5	60°	542.5	689.9	828.5	984.7	1123.3	1261.9	1326.7	1491.9	1497.7
342.0	62.5°	392.1	530.7	663.4	799.0	922.8	1058.4	1117.4	1247.1	1264.8
224.1	65°	274.2	371.5	524.8	628.0	766.6	866.8	943.5	1055.5	1076.1
132.7	67.5°	176.9	268.3	415.7	507.1	633.9	719.4	799.0	887.4	914.0
85.5	70°	106.1	203.4	309.6	406.9	521.9	598.5	675.2	751.8	766.6
41.3	72.5°	67.8	141.5	224.1	330.2	418.7	501.2	569.0	625.0	580.8
26.5	75°	38.3	97.3	176.9	259.5	339.1	418.7	474.7	504.2	403.9
17.7	77.5°	23.6	70.8	144.5	209.3	262.4	336.1	371.5	389.2	288.9
11.8	80°	14.7	53.1	120.9	171.0	171.0	247.7	288.9	303.7	209.3
8.8	82.5°	11.8	38.3	94.3	129.7	115.0	185.7	227.0	230.0	147.4
5.9	85°	8.8	29.5	59.0	85.5	79.6	129.7	132.7	147.4	97.3
5.9	87.5°	5.9	17.7	35.4	50.1	44.2	61.9	70.8	79.6	53.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
27422.4  
26617.5  
26172.3  
25520.7  
24300.1  
22988.1  
21466.8  
19945.4  
18270.8  
16655.1  
15027.6  
13565.2  
12108.8  
10687.7  
9369.8  
8104.9  
6846.0  
5590.0  
4490.3  
3679.5  
3030.9  
2506.1  
2084.5  
1754.3  
1483.0  
1258.9  
1070.2  
911.0  
754.8  
539.5  
383.3  
271.2  
194.6  
135.6  
88.4  
47.2  
0.0

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