

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: P637830

Luminaire Tested: **IFLD-L-SA7A-727-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637830  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-727-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22072.5 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

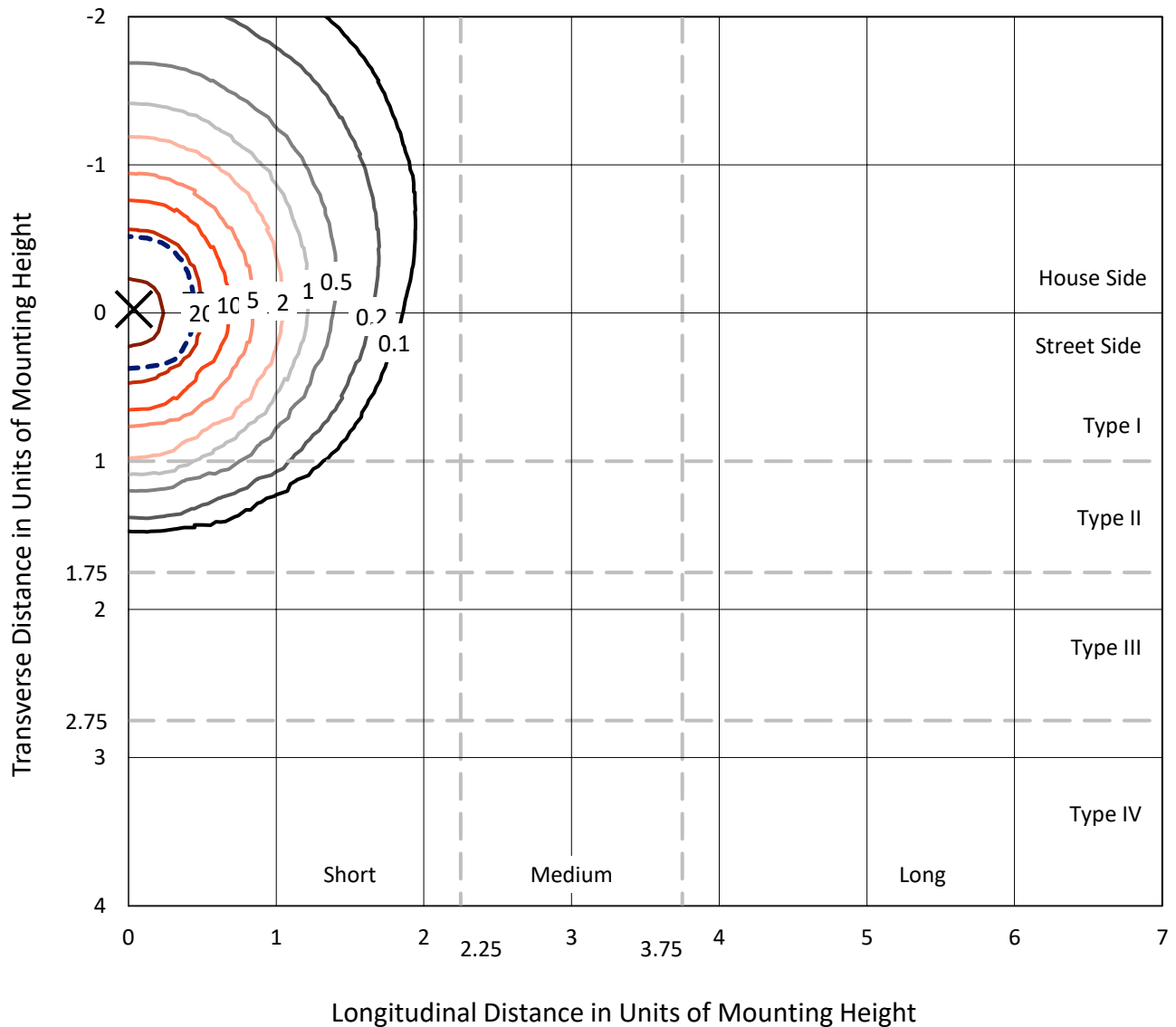
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

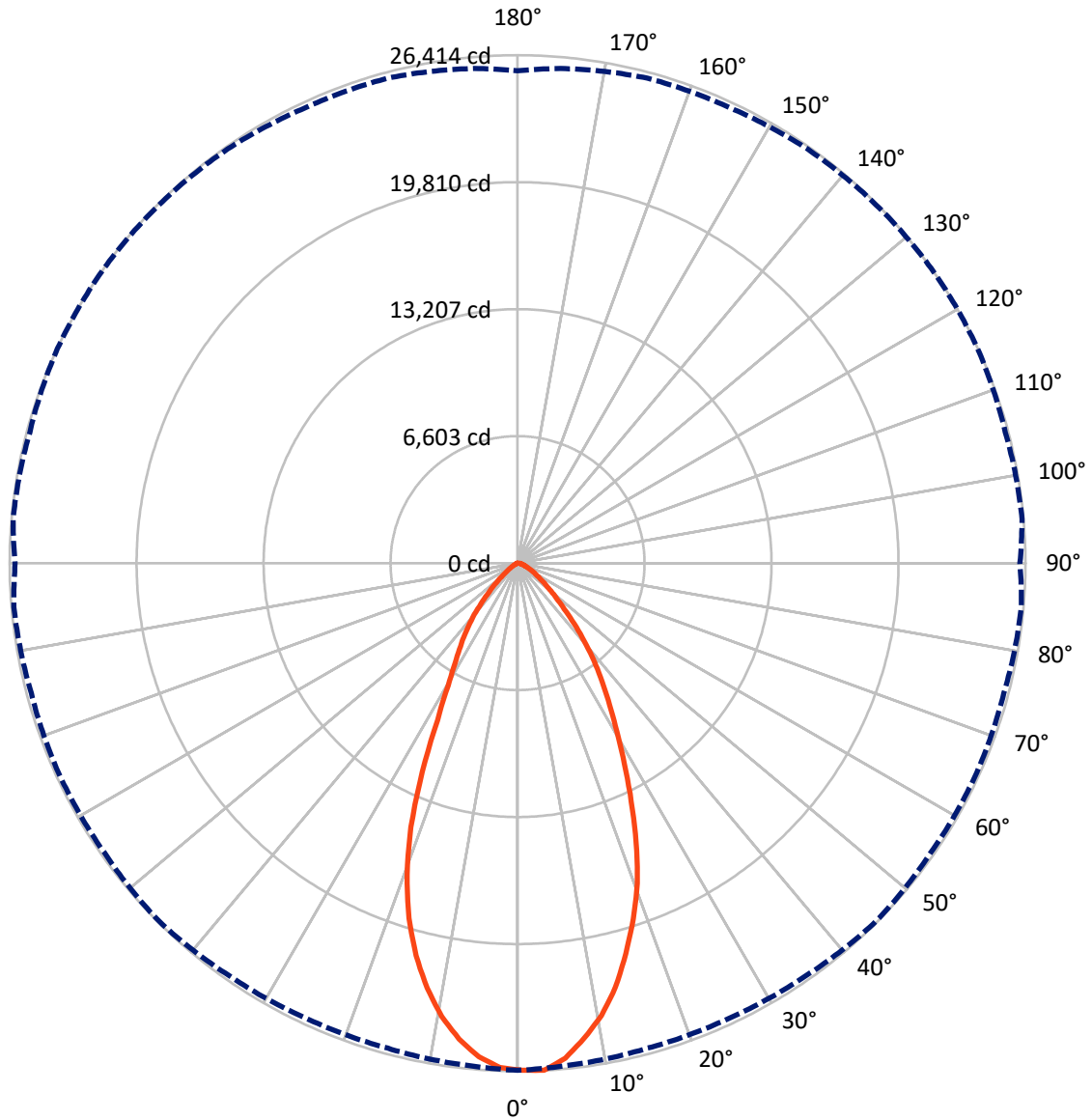
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 65.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12524.8	0.0	12524.8
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	9547.7	0.0	9547.7
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	22072.5	0.0	22072.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2394.6	10.8
10°-20°	5708.2	25.9
20°-30°	5813.7	26.3
30°-40°	4335.3	19.6
40°-50°	2264.8	10.3
50°-60°	952.6	4.3
60°-70°	389.0	1.8
70°-80°	163.7	0.7
80°-90°	50.4	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°	22072.5	100.0
0°-180°	22072.5	100.0



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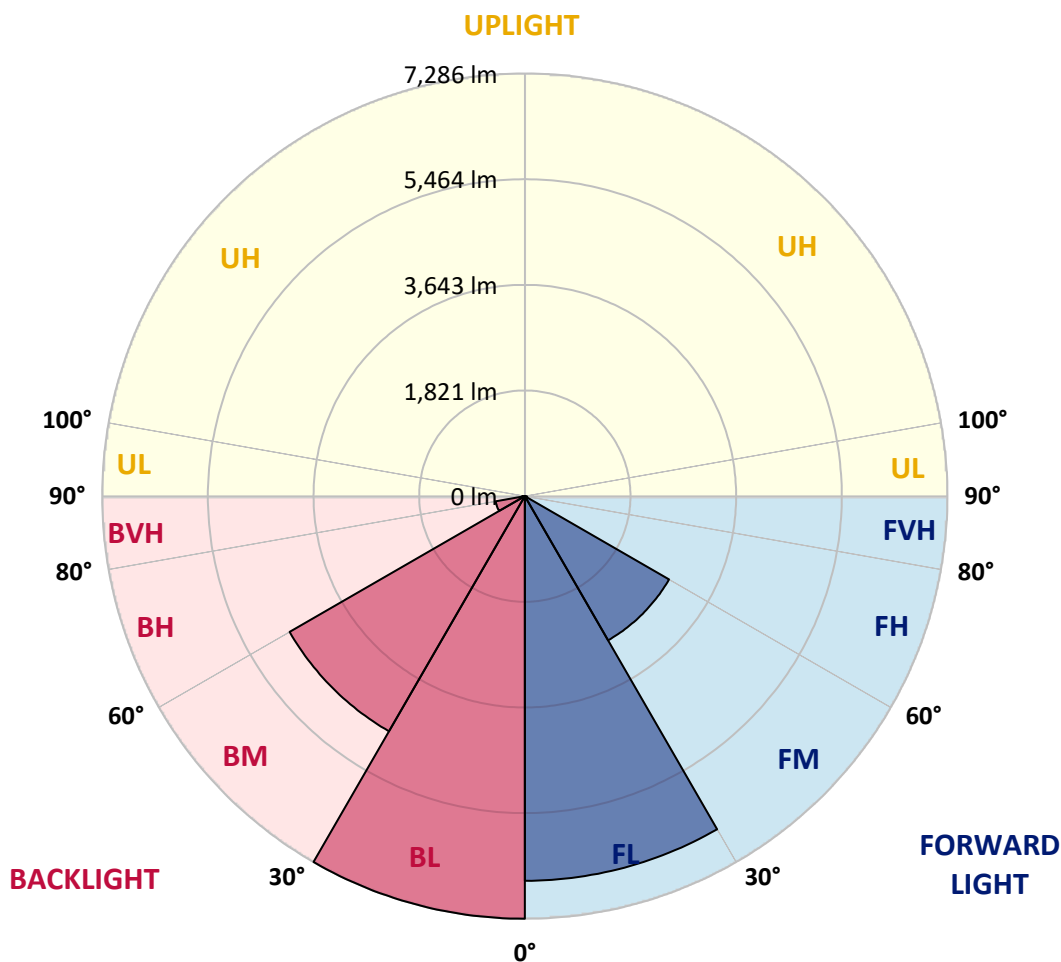
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6630.8	30.0			
FM (30°-60°)	2870.6	13.0			
FH (60°-80°)	41.5	0.2			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	7285.7	33.0	B5		
BM (30°-60°)	4682.1	21.2	B3/5000		
BH (60°-80°)	511.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	45.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26371.2	26371.2	26371.2	26371.2	26371.2	26371.2	26371.2	26371.2	26371.2	26371.2
2.5°	26374.1	26266.3	26113.2	26099.0	26178.4	26351.4	26240.8	26246.5	26178.4	26294.7
5°	25960.1	25858.0	25753.1	25614.2	25730.5	25804.2	25747.5	25685.1	25597.2	25710.6
7.5°	25177.6	25120.9	24964.9	24902.5	24973.4	25055.7	24933.7	24916.7	24794.8	24942.2
10°	23981.1	23958.4	23805.3	23768.4	23830.8	23955.6	23901.7	23890.3	23813.8	23799.6
12.5°	22739.2	22651.3	22461.3	22450.0	22543.6	22730.7	22586.1	22447.2	22489.7	22526.6
15°	19541.0	19447.4	19918.1	20658.1	21046.5	21032.3	21074.9	20907.6	20856.6	20873.6
17.5°	15534.7	15375.9	15546.0	16691.5	18537.3	19609.0	19314.1	18954.1	18761.3	18633.7
20°	13408.2	13416.7	13385.5	13680.4	14831.5	17275.6	17204.7	16510.0	16257.7	16152.8
22.5°	12115.3	12067.1	11999.0	12092.6	12401.7	13836.3	14797.5	14159.5	14071.7	13955.4
25°	10847.9	10847.9	10765.7	10859.2	10947.1	10967.0	11931.0	12191.8	12021.7	12021.7
27.5°	9750.6	9693.9	9657.1	9699.6	9583.4	9024.8	9146.7	10482.1	10365.9	10295.0
30°	8661.9	8644.9	8582.5	8639.2	8208.2	7578.8	7323.6	8846.2	8968.1	8942.6
32.5°	7150.7	7218.7	7496.6	7584.5	6847.3	6339.8	6095.9	7343.5	7831.1	7811.3
35°	4859.7	4916.4	5234.0	6283.1	5676.3	5313.4	5242.5	5840.7	6643.1	6719.7
37.5°	3870.2	3861.7	3952.4	4139.6	4562.0	4474.1	4454.3	4610.2	5418.3	5452.3
40°	3189.7	3178.4	3175.5	3022.4	2917.5	3719.9	3666.1	3572.5	4272.8	4340.9
42.5°	2571.6	2583.0	2591.5	2256.9	2103.8	2869.3	2838.1	2741.7	3351.3	3430.7
45°	2018.7	2015.9	2032.9	1681.3	1638.8	1834.4	2120.8	2044.3	2529.1	2614.2
47.5°	1046.2	1083.1	1312.7	1301.4	1321.3	1301.4	1604.8	1584.9	1902.5	2038.6
50°	703.2	714.5	734.3	737.2	1040.6	958.3	1088.8	1233.4	1332.6	1542.4
52.5°	544.4	552.9	501.9	470.7	637.9	708.8	714.5	853.4	930.0	1142.6
55°	303.4	340.2	365.8	368.6	351.6	524.5	521.7	632.3	691.8	833.6
57.5°	39.7	48.2	73.7	238.2	235.3	292.0	365.8	459.3	493.3	609.6
60°	2.8	5.7	8.5	36.9	155.9	170.1	249.5	286.4	343.1	428.1
62.5°	0.0	0.0	2.8	8.5	31.2	99.2	130.4	150.3	201.3	280.7
65°	0.0	0.0	2.8	5.7	11.3	36.9	51.0	82.2	119.1	173.0
67.5°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	36.9	62.4	104.9
70°	0.0	0.0	2.8	5.7	8.5	11.3	17.0	22.7	34.0	56.7
72.5°	0.0	0.0	2.8	2.8	5.7	14.2	14.2	17.0	22.7	31.2
75°	0.0	0.0	2.8	5.7	8.5	14.2	14.2	14.2	17.0	19.8
77.5°	0.0	0.0	2.8	5.7	8.5	14.2	11.3	14.2	14.2	14.2
80°	0.0	0.0	2.8	5.7	8.5	14.2	17.0	14.2	11.3	11.3
82.5°	0.0	0.0	2.8	8.5	8.5	19.8	19.8	19.8	8.5	8.5
85°	0.0	0.0	5.7	8.5	14.2	22.7	22.7	17.0	8.5	5.7
87.5°	0.0	0.0	2.8	5.7	5.7	11.3	17.0	14.2	5.7	2.8
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°
26371.2	0°	26371.2	26371.2	26371.2	26371.2	26371.2	26371.2	26371.2	26371.2	26371.2
26124.6	2.5°	26334.4	26263.5	26396.8	26413.8	26357.1	26286.2	26121.7	26107.6	25821.2
25546.2	5°	25835.4	25719.1	25804.2	25860.9	25841.0	25764.5	25696.4	25634.1	25376.0
24607.7	7.5°	24905.4	24862.9	24902.5	24945.1	25027.3	24945.1	24916.7	24851.5	24596.3
23683.4	10°	23873.3	23793.9	23944.2	23924.4	23901.7	23879.0	23759.9	23771.3	23470.7
22424.5	12.5°	22605.9	22472.7	22617.3	22634.3	22617.3	22537.9	22404.6	22461.3	22186.3
20723.3	15°	20901.9	20887.7	20992.7	21060.7	21108.9	21023.8	20978.5	21006.8	20842.4
18534.4	17.5°	18809.5	18993.8	19336.8	19453.1	19455.9	19543.8	19518.3	19484.3	19362.3
16110.2	20°	16348.4	16702.8	17230.2	17771.7	17927.7	17854.0	17819.9	17882.3	17700.9
13833.5	22.5°	14077.3	14380.7	14993.1	15784.2	16240.7	16286.0	16277.5	16223.7	16152.8
12010.4	25°	12149.3	12418.7	13005.6	13728.6	14604.7	14735.1	14740.8	14723.8	14661.4
10357.4	27.5°	10521.8	10847.9	11171.1	11817.6	12750.4	13289.1	13221.1	13201.2	13178.5
8962.4	30°	9047.5	9458.6	9762.0	10164.6	11001.0	11729.7	11800.6	11766.5	11712.7
7808.4	32.5°	7879.3	8123.2	8508.8	8781.0	9382.0	10207.1	10479.3	10453.8	10405.6
6767.9	35°	6864.3	6960.7	7264.1	7567.4	7967.2	8766.8	9169.4	9112.7	9104.2
5514.7	37.5°	5653.6	5976.8	6144.1	6450.3	6731.0	7352.0	7907.7	7882.2	7885.0
4434.4	40°	4564.9	4752.0	5083.7	5341.7	5599.7	6053.4	6671.5	6688.5	6682.8
3433.6	42.5°	3504.4	3685.9	4034.6	4315.3	4545.0	4825.7	5415.4	5435.3	5460.8
2673.7	45°	2736.1	2852.3	3107.5	3399.5	3643.4	3813.5	4261.5	4389.1	4391.9
2072.6	47.5°	2123.6	2256.9	2438.4	2719.1	2957.2	3079.1	3405.2	3578.2	3569.7
1590.6	50°	1667.2	1789.1	1936.5	2157.7	2415.7	2512.1	2753.1	2923.2	2914.7
1199.3	52.5°	1275.9	1431.8	1562.3	1732.4	1984.7	2066.9	2239.9	2435.5	2407.2
878.9	55°	966.8	1125.6	1247.5	1389.3	1619.0	1723.9	1843.0	1998.9	2004.6
680.5	57.5°	728.7	893.1	1003.7	1148.3	1321.3	1437.5	1528.2	1695.5	1692.7
465.0	60°	521.7	663.5	796.7	947.0	1080.3	1213.5	1275.9	1434.7	1440.3
328.9	62.5°	377.1	510.4	637.9	768.4	887.5	1017.9	1074.6	1199.3	1216.3
215.5	65°	263.7	357.2	504.7	603.9	737.2	833.6	907.3	1015.0	1034.9
127.6	67.5°	170.1	258.0	399.8	487.7	609.6	691.8	768.4	853.4	878.9
82.2	70°	102.1	195.6	297.7	391.3	501.9	575.6	649.3	723.0	737.2
39.7	72.5°	65.2	136.1	215.5	317.6	402.6	482.0	547.2	601.1	558.6
25.5	75°	36.9	93.6	170.1	249.5	326.1	402.6	456.5	484.8	388.4
17.0	77.5°	22.7	68.0	138.9	201.3	252.3	323.2	357.2	374.3	277.9
11.3	80°	14.2	51.0	116.2	164.4	164.4	238.2	277.9	292.0	201.3
8.5	82.5°	11.3	36.9	90.7	124.8	110.6	178.6	218.3	221.2	141.8
5.7	85°	8.5	28.4	56.7	82.2	76.6	124.8	127.6	141.8	93.6
5.7	87.5°	5.7	17.0	34.0	48.2	42.5	59.5	68.0	76.6	51.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
26371.2  
*25597.2*  
25169.1  
24542.5  
23368.6  
22106.9  
20643.9  
19180.9  
17570.4  
16016.7  
14451.6  
13045.3  
11644.6  
10278.0  
9010.6  
7794.3  
6583.6  
5375.8  
4318.2  
3538.5  
2914.7  
2410.0  
2004.6  
1687.0  
1426.2  
1210.7  
1029.2  
876.1  
725.8  
518.9  
368.6  
260.8  
187.1  
130.4  
85.1  
45.4  
0.0

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