

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: P637408

Luminaire Tested: **IFLD-S-SA2E-750-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637408  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-750-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17856.3 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

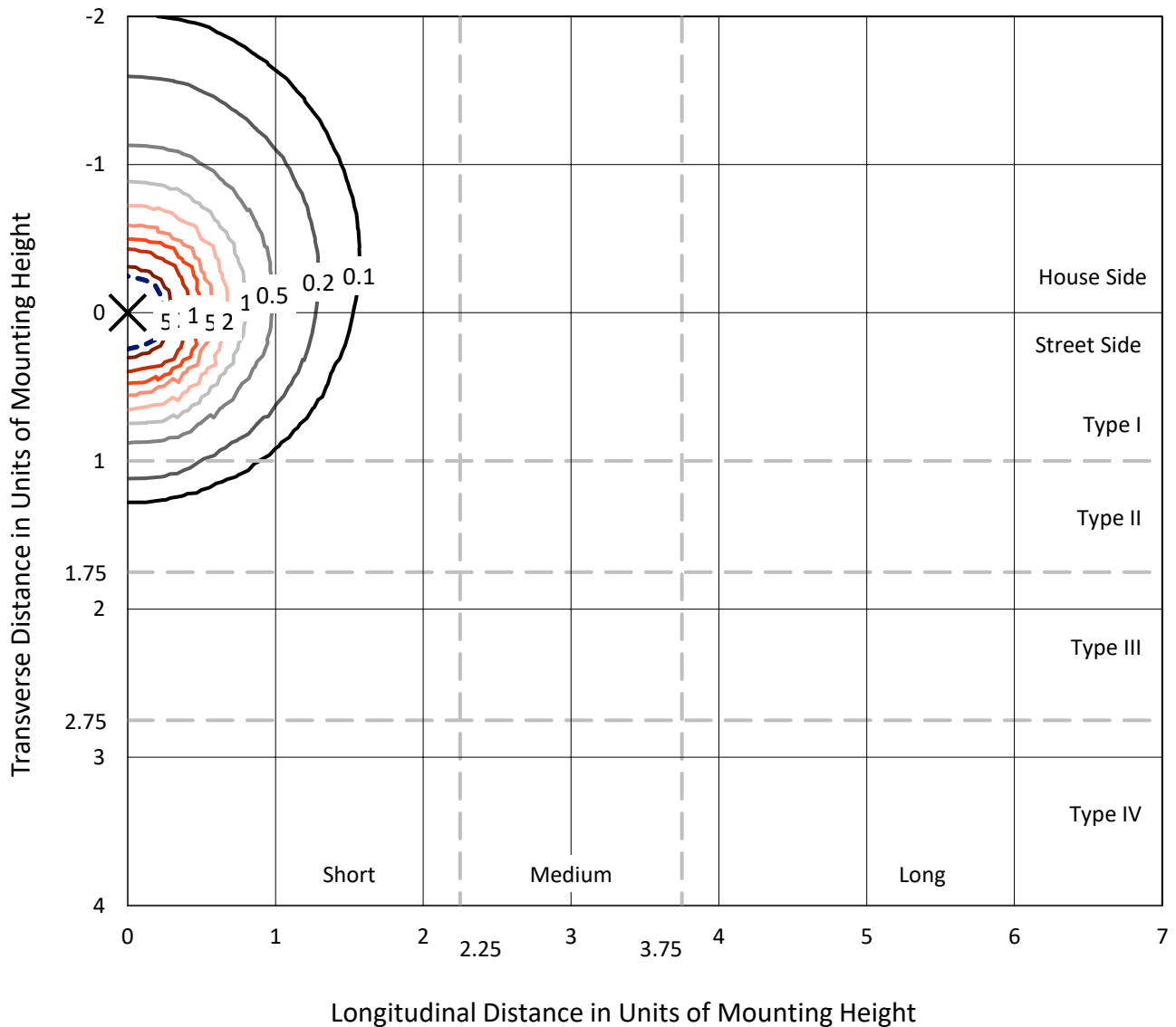
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

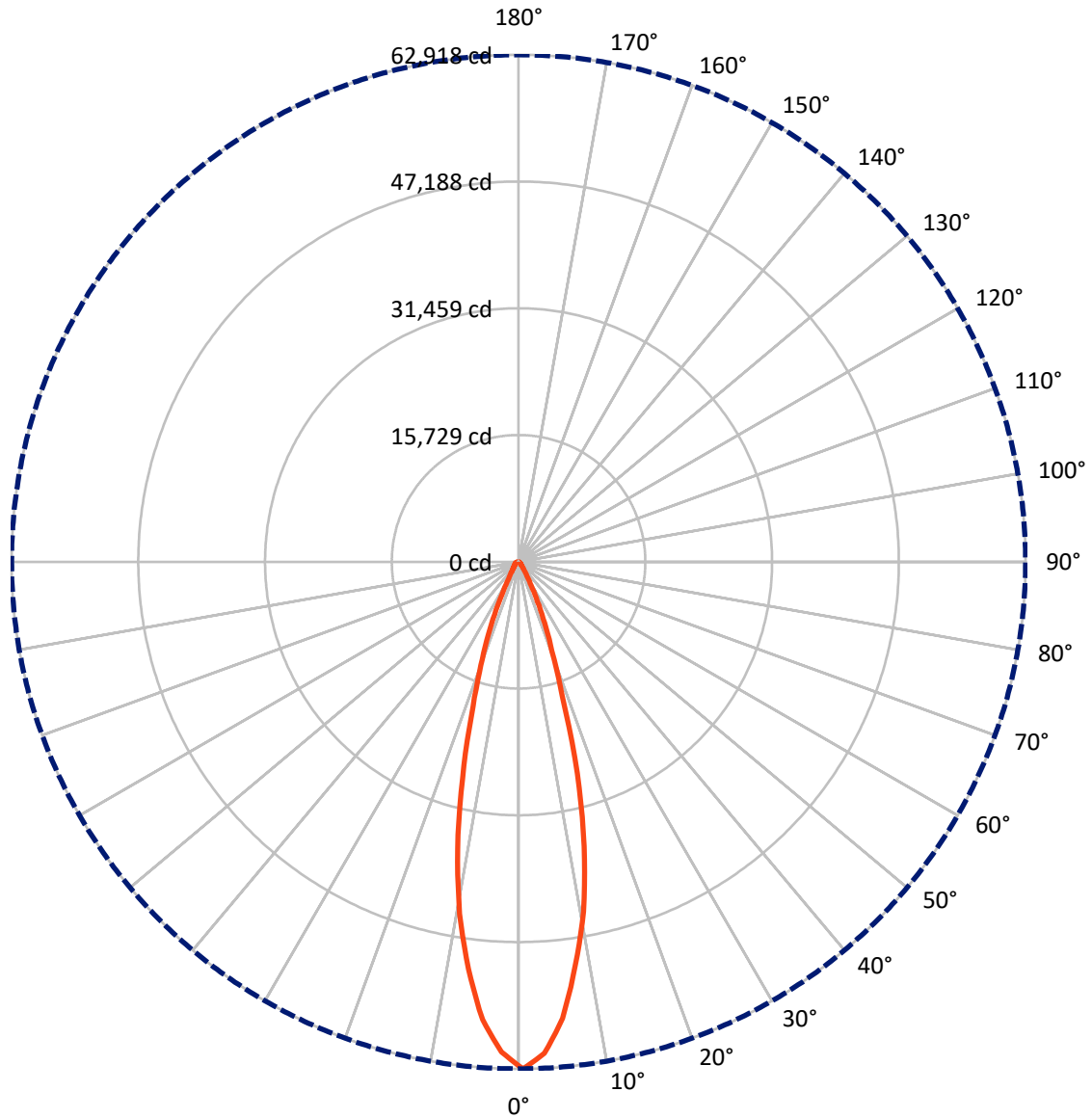
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 157.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9415.0	0.0	9415.0
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	8441.2	0.0	8441.2
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	17856.3	0.0	17856.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5078.0	28.4
10°-20°	7690.6	43.1
20°-30°	3245.5	18.2
30°-40°	846.5	4.7
40°-50°	428.1	2.4
50°-60°	279.8	1.6
60°-70°	167.7	0.9
70°-80°	88.2	0.5
80°-90°	31.9	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°	17856.3	100.0
0°-180°	17856.3	100.0

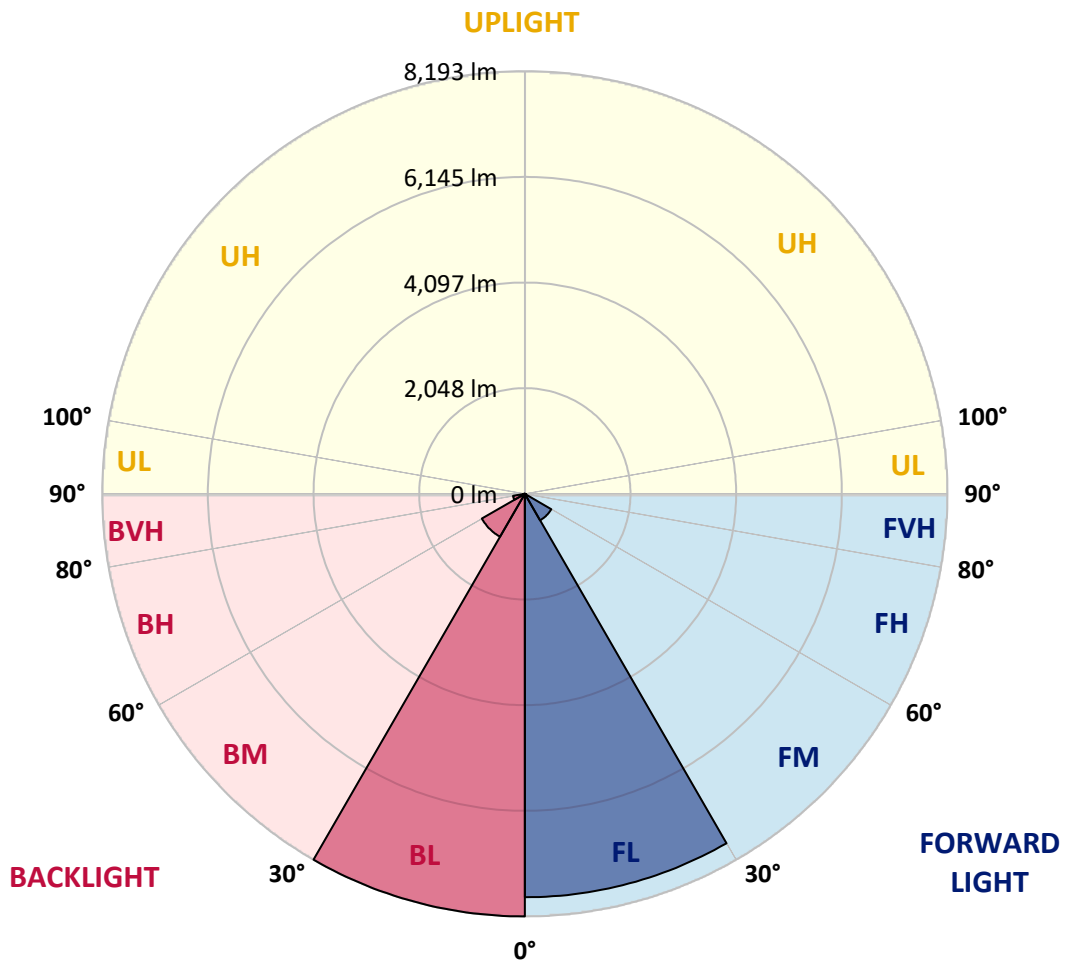


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7820.9	43.8			
FM (30°-60°)	592.3	3.3			
FH (60°-80°)	24.1	0.1			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	8193.2	45.9	B5		
BM (30°-60°)	962.1	5.4	B1/1000		
BH (60°-80°)	231.7	1.3	B1/500		G0/660
BVH (80°-90°)	28.0	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	62917.8	62917.8	62917.8	62917.8	62917.8	62917.8	62917.8	62917.8	62917.8	62917.8
2.5°	61085.0	61119.1	60992.8	61265.5	61052.9	61622.4	61339.7	61780.8	61632.4	61879.1
5°	56914.0	56857.9	56821.8	57244.9	57122.6	57734.2	57343.1	57214.8	57611.8	57539.7
7.5°	50615.4	50763.8	50679.6	50789.9	50852.0	51549.9	51770.4	51598.0	51604.0	51704.3
10°	44158.4	43939.8	43629.0	43835.5	44272.7	44577.5	44455.2	44707.8	44651.7	44890.3
12.5°	36213.4	36385.9	36211.4	36027.0	36791.0	36706.7	36919.3	37057.7	36710.8	37482.8
15°	27277.9	27368.1	27580.7	27566.7	28154.2	28272.5	28244.4	28390.8	28120.1	28248.5
17.5°	17524.2	17829.0	18400.5	19367.0	20453.9	20580.2	20548.2	20427.8	20297.5	20153.1
20°	11771.0	11738.9	11945.5	12228.2	14478.2	15073.7	15055.7	14678.7	14133.3	14029.0
22.5°	8245.7	8305.9	8277.8	8558.6	9023.8	10666.1	10463.6	10080.6	9902.1	9785.8
25°	5424.3	5402.2	5542.6	5626.8	6025.9	6226.4	6936.3	6793.9	6519.2	6549.3
27.5°	3306.7	3334.8	3386.9	3459.1	3741.9	3677.7	4082.8	4136.9	4048.7	3954.4
30°	2029.3	2049.4	2091.5	2143.6	2241.9	2171.7	2284.0	2478.5	2446.4	2380.3
32.5°	1377.6	1379.6	1409.7	1429.8	1417.7	1351.6	1387.7	1572.1	1576.2	1570.1
35°	990.6	990.6	1018.7	1034.7	1000.6	946.5	952.5	1066.8	1116.9	1127.0
37.5°	683.8	685.8	733.9	782.1	744.0	729.9	705.9	782.1	862.3	874.3
40°	519.4	517.4	541.4	577.5	581.5	555.5	563.5	611.6	693.8	703.9
42.5°	421.1	423.1	435.1	431.1	433.1	467.2	479.3	501.3	577.5	595.6
45°	354.9	356.9	363.0	342.9	334.9	387.0	403.1	415.1	479.3	501.3
47.5°	292.8	296.8	302.8	280.7	276.7	310.8	338.9	350.9	407.1	431.1
50°	210.6	214.6	236.6	224.6	236.6	244.6	282.7	300.8	338.9	371.0
52.5°	152.4	156.4	162.4	164.4	194.5	198.5	226.6	254.7	272.7	308.8
55°	120.3	124.3	120.3	116.3	142.4	164.4	174.5	204.5	218.6	260.7
57.5°	68.2	72.2	78.2	90.2	94.2	126.3	136.4	162.4	174.5	214.6
60°	12.0	14.0	22.1	54.1	66.2	80.2	102.3	124.3	140.4	168.4
62.5°	2.0	2.0	4.0	12.0	38.1	56.1	74.2	88.2	102.3	128.3
65°	0.0	0.0	2.0	4.0	10.0	32.1	40.1	52.1	70.2	92.2
67.5°	0.0	0.0	2.0	4.0	6.0	12.0	18.0	32.1	40.1	62.2
70°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	14.0	24.1	38.1
72.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	12.0	12.0	24.1
75°	0.0	0.0	2.0	4.0	6.0	10.0	12.0	12.0	10.0	10.0
77.5°	0.0	0.0	2.0	4.0	8.0	12.0	14.0	12.0	8.0	8.0
80°	0.0	0.0	4.0	6.0	10.0	14.0	18.0	14.0	8.0	4.0
82.5°	0.0	0.0	4.0	8.0	10.0	16.0	22.1	18.0	8.0	4.0
85°	0.0	0.0	2.0	6.0	12.0	16.0	22.1	16.0	8.0	2.0
87.5°	0.0	0.0	2.0	2.0	4.0	6.0	12.0	10.0	4.0	2.0
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°
62917.8	0°	62917.8	62917.8	62917.8	62917.8	62917.8	62917.8	62917.8	62917.8	62917.8
61411.9	2.5°	61764.8	62085.6	62151.8	62063.6	62191.9	61961.3	61784.8	61327.6	61052.9
57517.6	5°	57888.6	57840.4	58175.3	58285.6	58271.6	58095.1	57848.5	57571.7	57303.0
51509.8	7.5°	51830.6	51892.8	52197.6	52392.1	52293.8	52073.2	51902.8	51694.2	51513.8
44976.5	10°	45387.6	44960.5	45339.5	45339.5	45602.2	44978.5	45036.7	44511.3	44535.4
37468.8	12.5°	37597.1	37751.5	37813.7	37992.1	37685.3	37354.5	36949.4	36869.2	36618.5
28003.8	15°	28406.9	28848.0	28469.0	29116.7	28803.9	28459.0	28396.8	27775.2	27971.7
20311.5	17.5°	20211.3	20698.6	20851.0	21221.9	20937.2	20732.6	20474.0	20285.5	20271.4
14219.5	20°	14331.8	14821.1	14933.4	15378.5	15346.4	15282.3	15063.7	14825.1	14566.4
9679.5	22.5°	9825.9	10224.9	10597.9	11197.5	11187.5	10999.0	10976.9	10640.0	10646.1
6539.2	25°	6607.4	6898.2	6986.4	7600.0	7668.2	7648.2	7533.9	7221.0	7339.3
3994.5	27.5°	3998.5	4253.2	4552.0	4768.6	4973.1	4941.0	4826.7	4652.3	4576.1
2400.3	30°	2464.5	2578.8	2689.1	2949.8	3072.1	3136.3	3082.1	2919.7	2931.7
1580.2	32.5°	1614.3	1710.5	1790.7	1955.2	2019.3	2137.6	2115.6	2081.5	2041.4
1137.0	35°	1177.1	1247.3	1301.4	1377.6	1459.8	1560.1	1576.2	1562.1	1546.1
878.3	37.5°	898.4	970.6	1032.7	1064.8	1129.0	1207.2	1251.3	1249.3	1237.3
715.9	40°	729.9	784.1	840.2	882.3	926.4	984.6	1038.7	1044.8	1044.8
601.6	42.5°	609.6	655.7	711.9	756.0	788.1	842.2	898.4	902.4	898.4
509.3	45°	521.4	561.5	615.6	667.8	693.8	733.9	788.1	800.1	792.1
437.2	47.5°	453.2	489.3	535.4	591.6	619.6	655.7	705.9	719.9	717.9
377.0	50°	389.0	431.1	477.3	523.4	559.5	593.6	641.7	657.7	651.7
320.8	52.5°	342.9	381.0	421.1	471.2	513.4	543.4	581.5	609.6	601.6
270.7	55°	286.8	332.9	375.0	417.1	469.2	501.3	537.4	571.5	563.5
228.6	57.5°	248.7	286.8	334.9	373.0	425.1	463.2	499.3	535.4	533.4
186.5	60°	208.5	248.7	294.8	334.9	383.0	425.1	461.2	501.3	505.3
140.4	62.5°	164.4	212.6	252.7	298.8	346.9	393.0	425.1	465.2	471.2
106.3	65°	124.3	174.5	218.6	262.7	310.8	361.0	389.0	423.1	429.1
78.2	67.5°	92.2	134.4	186.5	226.6	276.7	324.9	350.9	379.0	389.0
48.1	70°	70.2	102.3	156.4	194.5	246.7	284.8	312.8	336.9	344.9
32.1	72.5°	44.1	80.2	126.3	166.4	212.6	246.7	266.7	280.7	292.8
18.0	75°	30.1	62.2	102.3	142.4	176.5	202.5	220.6	232.6	242.6
8.0	77.5°	18.0	48.1	84.2	118.3	140.4	160.4	178.5	186.5	192.5
6.0	80°	10.0	36.1	70.2	96.3	110.3	124.3	138.4	148.4	152.4
4.0	82.5°	6.0	28.1	56.1	74.2	80.2	94.2	108.3	114.3	114.3
2.0	85°	4.0	20.1	38.1	54.1	58.2	68.2	72.2	76.2	80.2
2.0	87.5°	4.0	12.0	24.1	30.1	32.1	36.1	38.1	42.1	46.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>62917.8</u>
60850.4
57002.2
50902.2
44300.8
36389.9
27775.2
19898.4
14454.1
10529.8
7152.9
4509.9
2879.6
2027.3
1540.1
1231.2
1032.7
894.4
792.1
713.9
647.7
599.6
567.5
535.4
507.3
475.3
435.1
393.0
348.9
290.8
240.6
190.5
148.4
112.3
78.2
44.1
0.0

(END OF REPORT)