

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: P637203

Luminaire Tested: **IFLD-S-SA2C-827-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637203  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-827-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10390.6 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

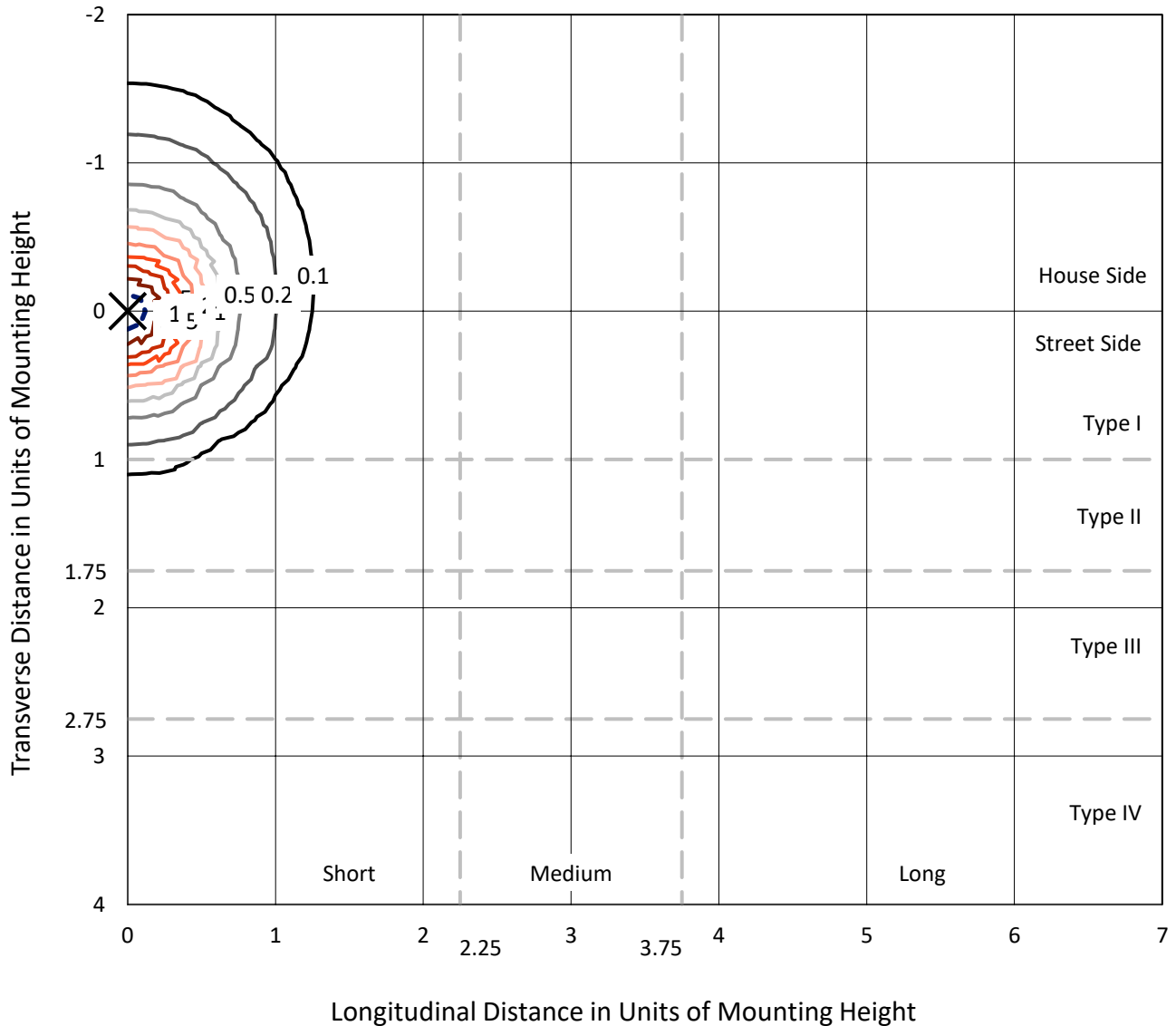
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

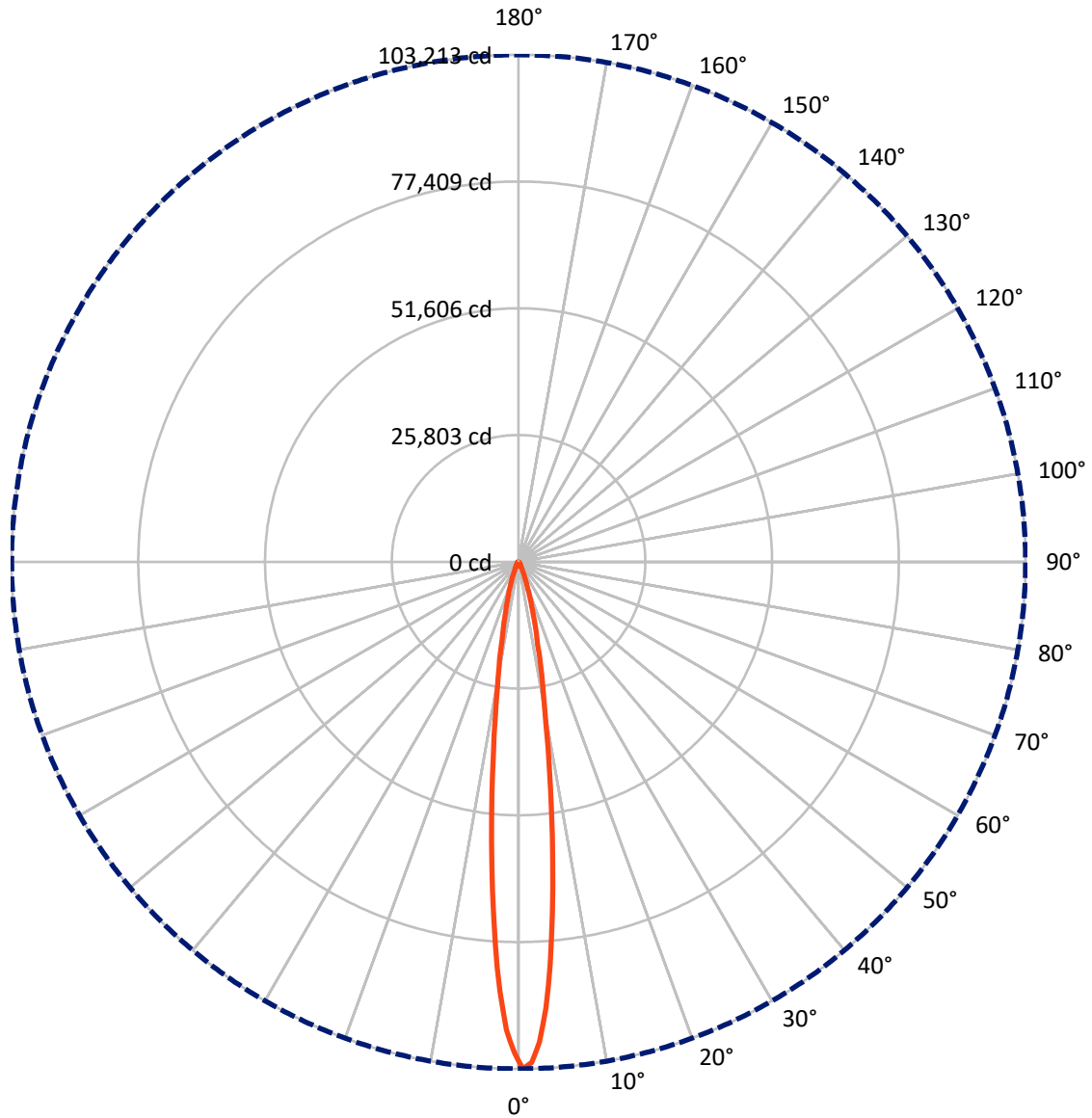
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 258 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	5321.9	0.0	5321.9
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	5068.7	0.0	5068.7
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	10390.6	0.0	10390.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5245.5	50.5
10°-20°	3358.1	32.3
20°-30°	1009.4	9.7
30°-40°	328.7	3.2
40°-50°	191.2	1.8
50°-60°	127.0	1.2
60°-70°	76.5	0.7
70°-80°	39.3	0.4
80°-90°	14.9	0.1
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°	10390.6	100.0
0°-180°	10390.6	100.0

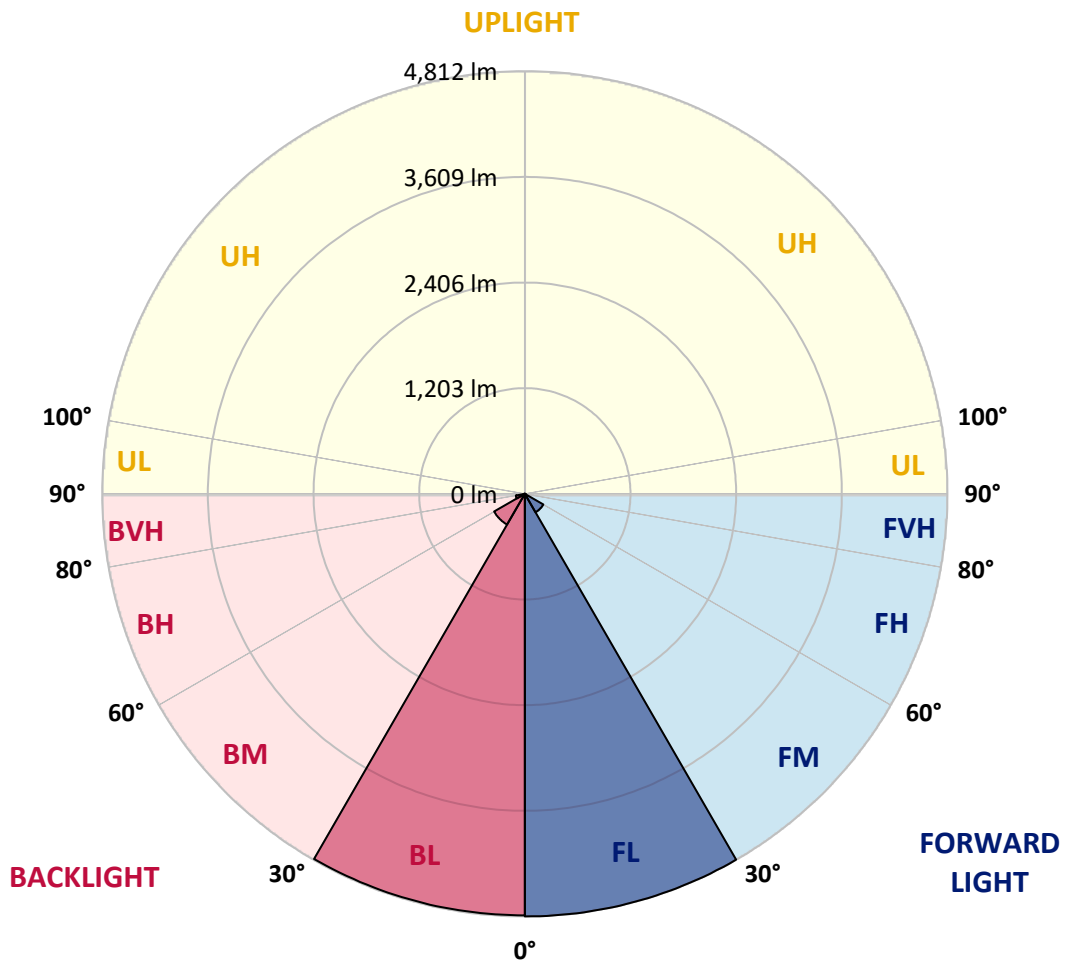


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4812.2	46.3			
FM (30°-60°)	242.8	2.3			
FH (60°-80°)	11.4	0.1			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	4800.8	46.2	B4/5000		
BM (30°-60°)	404.1	3.9	B1/1000		
BH (60°-80°)	104.3	1.0	B0/110		G0/660
BVH (80°-90°)	12.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	103212.5	103212.5	103212.5	103212.5	103212.5	103212.5	103212.5	103212.5	103212.5	103212.5
1°	101976.7	101665.5	100861.9	101433.5	101935.9	101789.9	101779.8	101725.4	101649.6	102244.9
2°	97900.3	97698.8	96510.5	97000.6	97714.7	97194.1	97520.0	97233.7	97239.4	97950.1
3°	91028.6	91138.3	89242.7	90133.4	91125.9	89864.0	90255.6	90991.2	90220.5	89988.5
4°	82097.2	81144.3	80108.8	81014.1	81271.0	80536.5	81258.6	82159.4	81088.8	81136.4
5°	71900.5	71196.6	69971.0	70530.0	69892.9	70124.9	71206.8	71578.0	70831.1	69890.6
6°	61416.4	60916.2	59383.9	60189.7	59963.3	59832.0	61198.0	60066.3	60473.7	59904.5
7°	51086.2	50151.4	49398.9	50170.7	50220.5	49825.5	51598.9	51392.9	50651.7	50479.6
8°	42325.7	41393.2	40756.0	41330.9	41706.7	41086.5	41920.6	42468.3	41888.9	41940.9
9°	34137.8	33973.7	33087.6	33839.1	34247.6	33583.3	34506.8	34704.8	34162.7	34426.4
10°	28030.0	27838.8	27131.5	27435.9	28112.6	27320.5	28206.6	28271.1	27838.8	27962.1
12.5°	17321.9	17244.9	17225.7	17269.8	17260.7	17401.1	17627.4	17369.4	17335.4	16908.8
15°	11195.9	11310.2	11192.5	11418.9	11451.7	11584.1	11446.0	11237.8	10840.6	10643.7
17.5°	6987.1	7133.1	7334.6	7666.2	7997.7	8036.2	7852.9	7608.4	7416.1	7205.6
20°	4019.8	4091.1	4060.6	4457.8	5315.6	5548.7	5312.2	5055.3	4823.3	4610.6
22.5°	2497.7	2471.6	2519.2	2652.7	2932.2	3653.1	3459.6	3202.7	3034.1	2858.7
25°	1531.2	1559.5	1541.4	1614.9	1740.6	2046.1	2090.3	1979.3	1893.3	1802.8
27.5°	985.7	985.7	993.6	1034.4	1120.4	1110.2	1345.6	1259.6	1213.2	1169.0
30°	684.7	686.9	686.9	710.7	729.9	696.0	757.1	868.0	846.5	812.6
32.5°	508.1	514.9	520.6	533.0	517.2	481.0	495.7	624.7	612.3	599.8
35°	387.0	392.7	406.3	413.1	390.4	367.8	354.2	459.5	465.1	461.7
37.5°	281.8	285.2	310.1	336.1	310.1	289.7	281.8	353.1	380.3	376.9
40°	216.2	217.3	221.8	251.2	251.2	235.4	237.7	263.7	311.2	311.2
42.5°	185.6	185.6	190.1	185.6	186.7	203.7	209.4	212.8	263.7	263.7
45°	160.7	160.7	163.0	151.6	140.3	175.4	179.9	181.1	221.8	227.5
47.5°	134.7	134.7	139.2	124.5	118.8	139.2	151.6	155.0	191.3	195.8
50°	99.6	100.7	114.3	101.9	105.2	107.5	131.3	133.5	161.8	172.0
52.5°	66.8	66.8	69.0	79.2	91.7	88.3	106.4	114.3	129.0	142.6
55°	54.3	54.3	53.2	50.9	67.9	73.6	78.1	95.1	105.2	122.2
57.5°	37.3	39.6	36.2	41.9	44.1	55.5	58.8	74.7	80.4	103.0
60°	4.5	5.7	7.9	30.6	29.4	37.3	44.1	58.8	65.6	79.2
62.5°	1.1	1.1	2.3	5.7	20.4	24.9	35.1	40.7	47.5	61.1
65°	0.0	0.0	1.1	2.3	4.5	13.6	18.1	23.8	34.0	43.0
67.5°	0.0	0.0	1.1	2.3	2.3	5.7	9.1	14.7	18.1	31.7
70°	0.0	0.0	1.1	2.3	2.3	4.5	5.7	6.8	12.4	17.0
72.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	5.7	5.7	11.3
75°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	5.7	4.5	4.5
77.5°	0.0	0.0	1.1	2.3	4.5	5.7	6.8	5.7	3.4	3.4
80°	0.0	0.0	1.1	3.4	5.7	7.9	9.1	6.8	3.4	2.3
82.5°	0.0	0.0	2.3	4.5	6.8	9.1	12.4	10.2	4.5	2.3
85°	0.0	0.0	1.1	3.4	6.8	9.1	18.1	12.4	5.7	1.1
87.5°	0.0	0.0	0.0	1.1	1.1	2.3	6.8	4.5	2.3	1.1
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°
103212.5	0°	103212.5	103212.5	103212.5	103212.5	103212.5	103212.5	103212.5	103212.5	103212.5
101557.9	1°	102267.5	102338.8	102105.7	102466.7	102339.9	101597.6	101352.0	101061.1	100642.4
97532.5	2°	97233.7	97597.0	97615.1	98015.7	98010.1	97144.3	96876.1	97370.6	96405.3
90459.3	3°	90185.5	90608.7	90227.3	90939.2	90725.3	89675.1	89402.3	89963.6	89262.0
81512.1	4°	81268.8	81188.4	81057.1	80652.0	81151.1	80434.7	79894.9	80656.5	79155.9
71137.8	5°	70995.2	70816.3	70560.6	70440.6	70811.8	70353.5	69243.3	70355.7	67679.3
60934.3	6°	61009.0	60239.4	60202.1	60135.3	60172.7	58889.3	58966.3	59794.7	57567.5
49887.8	7°	50415.1	50556.6	50268.0	50730.9	50377.8	49508.6	49173.6	50046.2	48472.0
42169.5	8°	41875.3	41696.5	41475.8	42167.3	41555.0	40984.6	40594.2	41283.4	40114.4
34469.4	9°	34404.9	34096.0	33871.9	33836.8	33931.9	32861.3	33078.6	33600.3	32896.4
28030.0	10°	28040.2	27533.2	27656.6	27689.4	27585.3	26883.6	26890.4	27070.3	26223.8
17191.7	12.5°	17130.6	16881.6	16943.9	16977.8	17189.4	16942.7	16594.2	16342.9	16216.2
10839.5	15°	10767.0	10588.2	10953.8	11199.3	11149.5	10930.0	10765.9	10538.4	10355.1
7205.6	17.5°	7138.8	7373.0	7374.2	7598.3	7620.9	7401.3	7274.6	7069.8	7078.8
4686.4	20°	4669.4	4766.7	4969.3	5127.7	5219.4	5051.9	4900.3	4759.9	4701.1
2922.1	22.5°	2922.1	3091.8	3218.6	3424.5	3508.3	3386.1	3278.5	3164.2	3094.1
1824.3	25°	1793.8	1914.8	2020.1	2198.9	2313.2	2254.4	2155.9	2075.5	2038.2
1178.1	27.5°	1196.2	1247.1	1299.2	1422.6	1541.4	1508.6	1469.0	1420.3	1403.3
830.7	30°	843.1	847.6	903.1	972.1	1051.4	1071.7	1053.6	1028.7	1009.5
610.0	32.5°	621.3	639.4	665.4	708.4	761.6	810.3	801.2	789.9	780.9
466.3	35°	479.8	507.0	528.5	561.3	589.6	636.0	643.9	640.5	633.8
383.6	37.5°	391.6	415.3	436.8	456.1	479.8	511.5	536.4	537.6	530.8
316.9	40°	324.8	346.3	374.6	389.3	406.3	430.0	460.6	462.9	460.6
268.2	42.5°	273.9	294.2	322.5	340.6	353.1	375.7	406.3	410.8	406.3
229.7	45°	235.4	247.8	277.3	298.8	311.2	325.9	358.8	363.3	362.1
198.0	47.5°	204.8	217.3	235.4	266.0	277.3	290.8	316.9	324.8	324.8
175.4	50°	179.9	192.4	208.2	235.4	252.4	263.7	285.2	296.5	296.5
152.8	52.5°	159.6	172.0	189.0	210.5	229.7	239.9	260.3	275.0	275.0
124.5	55°	133.5	155.0	167.5	186.7	212.8	221.8	237.7	256.9	256.9
108.6	57.5°	116.6	134.7	152.8	168.6	194.7	206.0	221.8	239.9	242.2
86.0	60°	98.5	115.4	136.9	150.5	175.4	190.1	207.1	224.1	228.6
65.6	62.5°	78.1	100.7	115.4	134.7	158.4	177.7	191.3	208.2	215.0
50.9	65°	57.7	82.6	99.6	120.0	142.6	163.0	174.3	192.4	196.9
36.2	67.5°	41.9	64.5	84.9	104.1	125.6	146.0	157.3	173.2	176.5
22.6	70°	32.8	47.5	70.2	87.1	109.8	126.8	139.2	149.4	152.8
14.7	72.5°	19.2	36.2	56.6	75.8	96.2	107.5	116.6	125.6	127.9
6.8	75°	12.4	28.3	46.4	63.4	78.1	88.3	96.2	104.1	105.2
3.4	77.5°	7.9	20.4	37.3	53.2	60.0	72.4	79.2	83.7	81.5
2.3	80°	4.5	15.8	32.8	43.0	48.7	56.6	63.4	69.0	63.4
2.3	82.5°	3.4	13.6	27.2	36.2	36.2	45.3	48.7	48.7	46.4
1.1	85°	2.3	11.3	21.5	34.0	27.2	34.0	31.7	31.7	31.7
1.1	87.5°	2.3	7.9	10.2	14.7	12.4	14.7	14.7	17.0	17.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
103212.5  
99909.1  
95275.9  
87470.5  
77899.7  
67424.6  
57393.2  
47673.0  
39315.4  
31970.6  
25845.8  
16190.2  
10421.9  
7018.8  
4711.3  
3103.1  
2029.1  
1392.0  
1011.7  
780.9  
629.2  
529.6  
459.5  
407.4  
362.1  
325.9  
297.6  
275.0  
258.0  
241.1  
228.6  
216.2  
195.8  
174.3  
152.8  
127.9  
104.1  
81.5  
62.2  
45.3  
30.6  
17.0  
0.0

(END OF REPORT)