

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: P637052

Luminaire Tested: **IFLD-L-SA8A-727-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637052  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28490.4 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

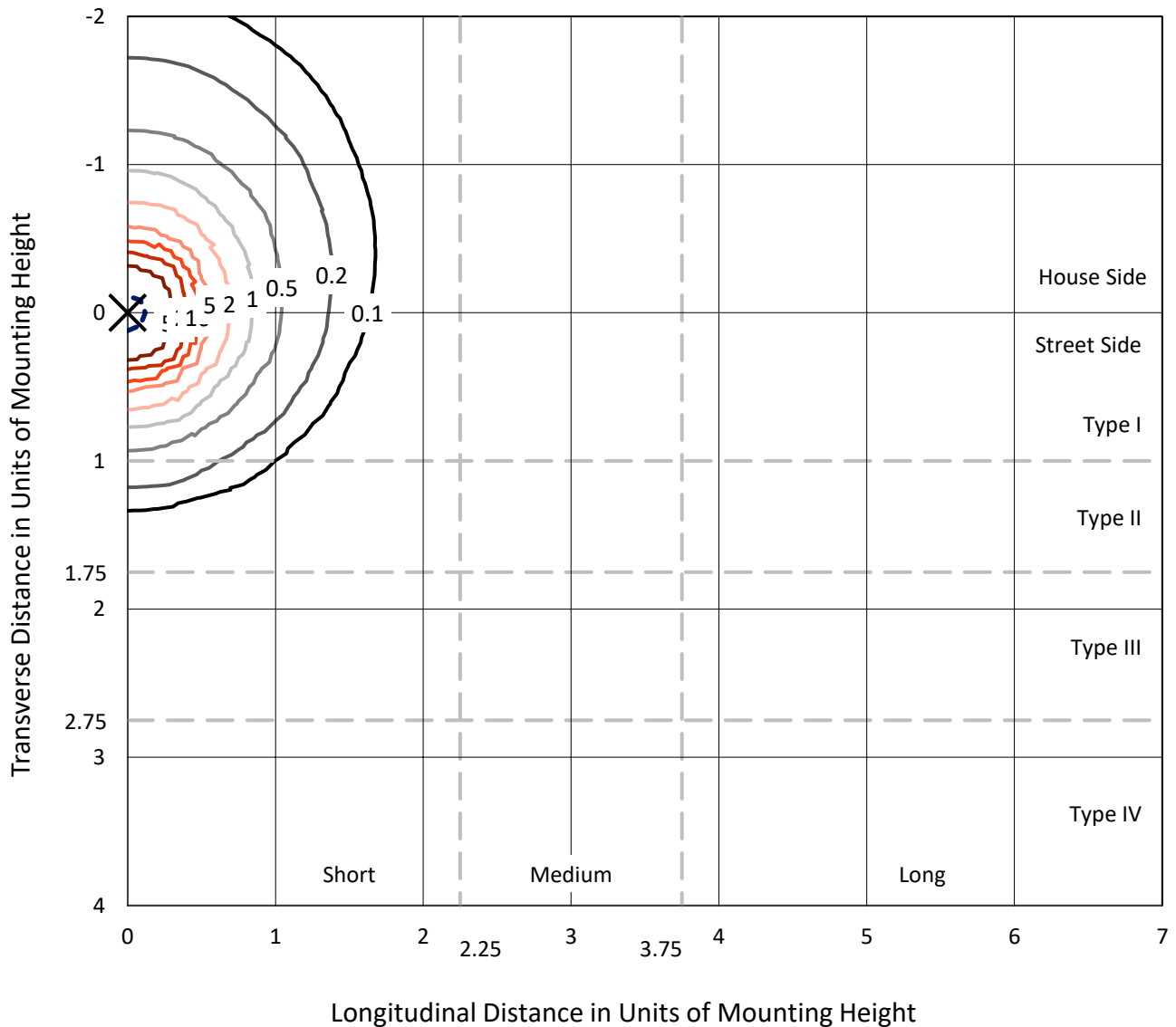
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

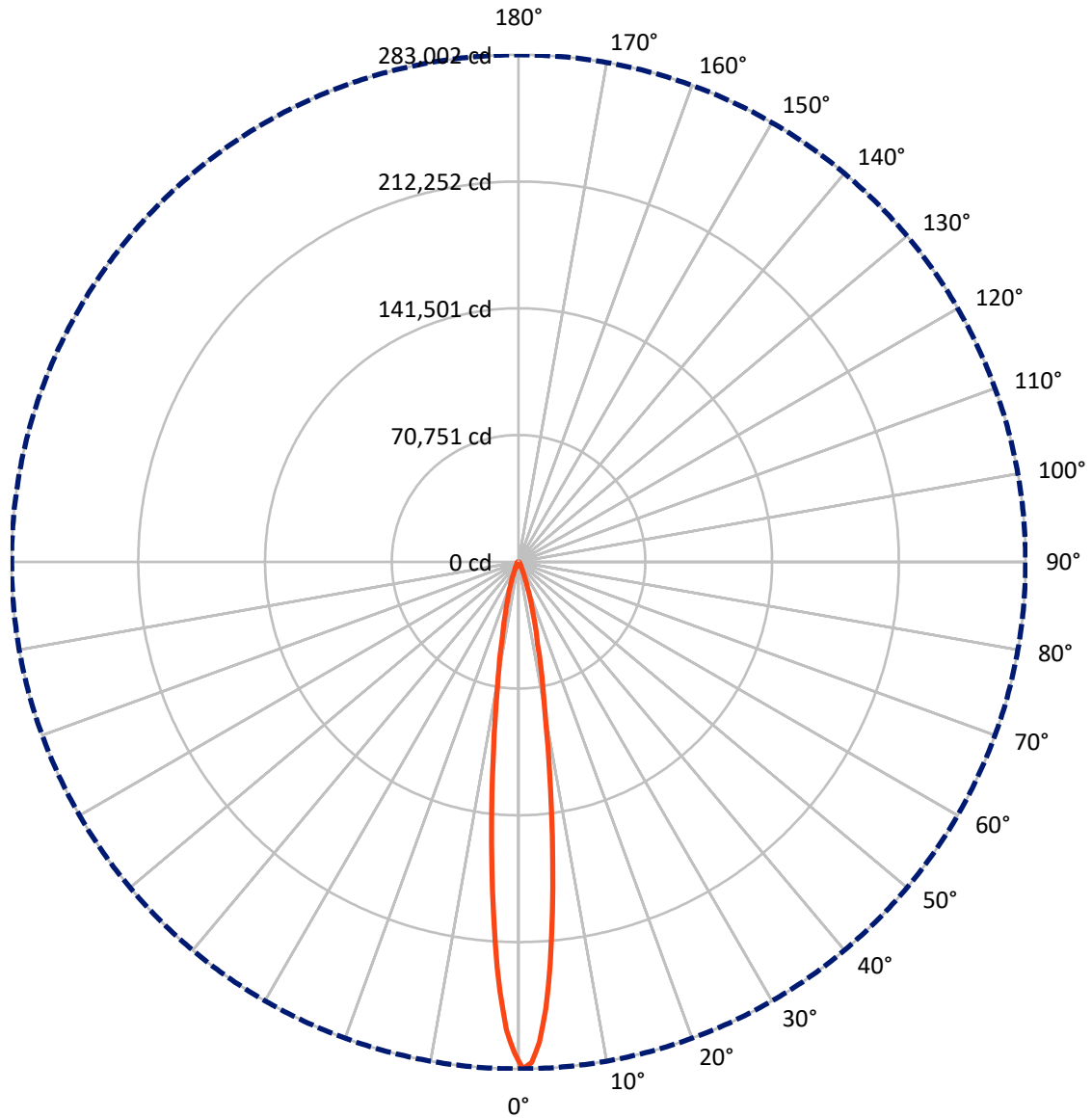
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 707.5 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	14592.3	0.0	14592.3
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	13898.1	0.0	13898.1
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	28490.4	0.0	28490.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14382.8	50.5
10°-20°	9207.8	32.3
20°-30°	2767.7	9.7
30°-40°	901.2	3.2
40°-50°	524.3	1.8
50°-60°	348.3	1.2
60°-70°	209.6	0.7
70°-80°	107.8	0.4
80°-90°	40.9	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°	28490.4	100.0
0°-180°	28490.4	100.0

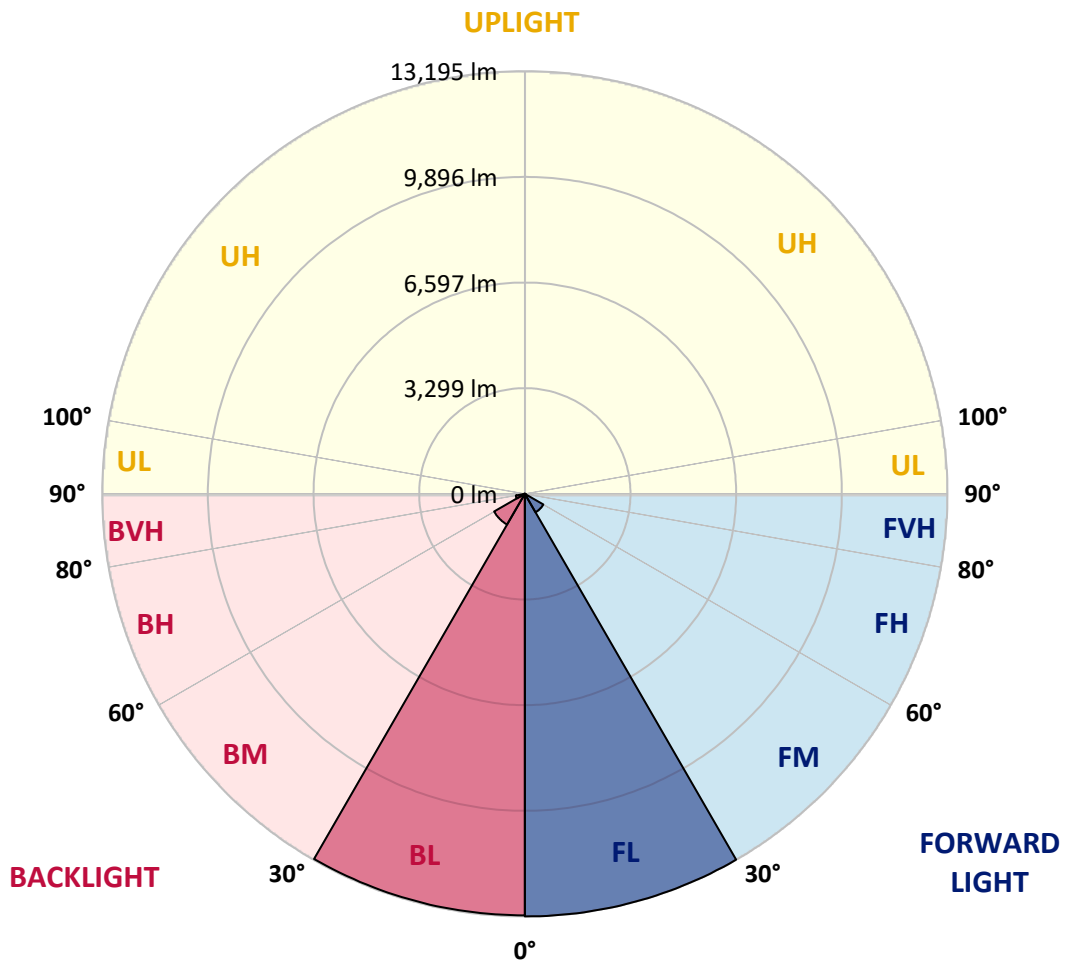


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13194.8	46.3			
FM (30°-60°)	665.8	2.3			
FH (60°-80°)	31.3	0.1			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	13163.5	46.2	B5		
BM (30°-60°)	1107.9	3.9	B2/2500		
BH (60°-80°)	286.1	1.0	B1/500		G0/660
BVH (80°-90°)	34.8	0.1			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°	283002.1	283002.1	283002.1	283002.1	283002.1	283002.1	283002.1	283002.1	283002.1	283002.1
1°	279613.5	278760.2	276557.0	278124.1	279501.8	279101.5	279073.6	278924.6	278716.7	280349.0
2°	268436.3	267884.0	264625.8	265969.4	267927.4	266500.0	267393.7	266608.6	266624.1	268572.8
3°	249594.5	249895.5	244697.9	247140.0	249861.4	246401.5	247475.1	249492.1	247379.0	246742.8
4°	225105.2	222492.4	219653.1	222135.6	222840.0	220826.1	222805.8	225275.9	222340.4	222470.7
5°	197146.6	195216.5	191855.9	193388.8	191641.8	192277.9	195244.5	196262.3	194214.2	191635.6
6°	168399.9	167028.3	162826.8	165036.2	164415.6	164055.6	167801.0	164698.0	165815.1	164254.2
7°	140075.2	137512.1	135448.5	137564.8	137701.3	136618.4	141480.9	140916.1	138883.6	138411.9
8°	116054.4	113497.5	111750.5	113326.8	114357.0	112656.6	114943.5	116445.4	114856.6	114999.4
9°	93603.8	93153.8	90724.1	92784.6	93904.8	92083.3	94615.4	95158.4	93672.0	94395.0
10°	76856.6	76332.1	74392.7	75227.5	77083.1	74910.9	77340.6	77517.5	76332.1	76670.4
12.5°	47495.4	47284.4	47231.7	47352.7	47327.9	47712.6	48333.2	47625.7	47532.7	46362.8
15°	30698.6	31012.0	30689.3	31309.9	31399.9	31762.9	31384.3	30813.4	29724.2	29184.3
17.5°	19158.3	19558.6	20110.9	21020.1	21929.3	22034.8	21532.1	20861.9	20334.3	19757.2
20°	11022.1	11217.6	11133.8	12222.9	14575.1	15214.3	14565.8	13861.4	13225.2	12641.9
22.5°	6848.5	6777.1	6907.4	7273.6	8040.0	10016.7	9486.1	8781.7	8319.3	7838.3
25°	4198.4	4276.0	4226.4	4428.1	4772.5	5610.3	5731.3	5427.2	5191.4	4943.2
27.5°	2702.8	2702.8	2724.5	2836.2	3072.0	3044.1	3689.5	3453.7	3326.5	3205.5
30°	1877.4	1883.6	1883.6	1948.7	2001.5	1908.4	2075.9	2380.0	2321.1	2228.0
32.5°	1393.3	1411.9	1427.4	1461.5	1418.1	1318.8	1359.1	1712.9	1678.8	1644.6
35°	1061.2	1076.8	1114.0	1132.6	1070.6	1008.5	971.3	1259.8	1275.4	1266.0
37.5°	772.7	782.0	850.2	921.6	850.2	794.4	772.7	968.2	1042.6	1033.3
40°	592.7	595.8	608.2	688.9	688.9	645.4	651.6	723.0	853.3	853.3
42.5°	508.9	508.9	521.3	508.9	512.0	558.6	574.1	583.4	723.0	723.0
45°	440.6	440.6	446.8	415.8	384.8	481.0	493.4	496.5	608.2	623.7
47.5°	369.3	369.3	381.7	341.3	325.8	381.7	415.8	425.1	524.4	536.8
50°	273.1	276.2	313.4	279.3	288.6	294.8	360.0	366.2	443.7	471.7
52.5°	183.1	183.1	189.3	217.2	251.3	242.0	291.7	313.4	353.7	391.0
55°	148.9	148.9	145.8	139.6	186.2	201.7	214.1	260.7	288.6	335.1
57.5°	102.4	108.6	99.3	114.8	121.0	152.0	161.4	204.8	220.3	282.4
60°	12.4	15.5	21.7	83.8	80.7	102.4	121.0	161.4	180.0	217.2
62.5°	3.1	3.1	6.2	15.5	55.9	68.3	96.2	111.7	130.3	167.6
65°	0.0	0.0	3.1	6.2	12.4	37.2	49.6	65.2	93.1	117.9
67.5°	0.0	0.0	3.1	6.2	6.2	15.5	24.8	40.3	49.6	86.9
70°	0.0	0.0	3.1	6.2	6.2	12.4	15.5	18.6	34.1	46.5
72.5°	0.0	0.0	3.1	6.2	9.3	12.4	15.5	15.5	15.5	31.0
75°	0.0	0.0	3.1	6.2	9.3	12.4	15.5	15.5	12.4	12.4
77.5°	0.0	0.0	3.1	6.2	12.4	15.5	18.6	15.5	9.3	9.3
80°	0.0	0.0	3.1	9.3	15.5	21.7	24.8	18.6	9.3	6.2
82.5°	0.0	0.0	6.2	12.4	18.6	24.8	34.1	27.9	12.4	6.2
85°	0.0	0.0	3.1	9.3	18.6	24.8	49.6	34.1	15.5	3.1
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	18.6	12.4	6.2	3.1
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°
<b>283002.1</b>	<b>283002.1</b>	<b>283002.1</b>	<b>283002.1</b>	<b>283002.1</b>	<b>283002.1</b>	<b>283002.1</b>	<b>283002.1</b>	<b>283002.1</b>	<b>283002.1</b>
278465.4	280411.0	280606.5	279967.3	280957.2	280609.6	278574.0	277900.6	277103.2	275955.0
267427.8	266608.6	267604.7	267654.3	268752.8	268737.3	266363.5	265628.0	266984.1	264337.2
248033.7	247282.8	248443.3	247397.6	249349.4	248762.9	245883.3	245135.4	246674.6	244750.7
223500.9	222833.8	222613.4	222253.5	221142.6	222511.0	220546.8	219066.6	221155.0	217040.3
195055.2	194664.2	194173.9	193472.6	193143.7	194161.5	192904.8	189860.7	192911.0	185572.2
167078.0	167282.8	165172.7	165070.3	164887.2	164989.6	161470.8	161681.8	163953.2	157846.4
136789.0	138235.1	138622.9	137831.7	139100.8	138132.7	135749.5	134831.0	137223.5	132907.1
115626.2	114819.4	114329.1	113724.0	115620.0	113941.2	112377.3	111306.7	113196.5	109991.0
94513.0	94336.1	93489.0	92874.6	92778.4	93039.0	90103.5	90699.3	92129.8	90199.7
76856.6	76884.5	75494.3	75832.6	75922.5	75637.1	73713.2	73731.8	74225.2	71904.1
47138.6	46971.0	46288.3	46459.0	46552.1	47132.4	46455.9	45500.2	44811.3	44463.7
29721.1	29522.5	29032.2	30034.5	30707.9	30571.3	29969.3	29519.4	28895.7	28393.0
19757.2	19574.1	20216.4	20219.5	20833.9	20896.0	20294.0	19946.5	19384.8	19409.6
12849.8	12803.2	13070.1	13625.5	14060.0	14311.3	13852.1	13436.2	13051.5	12890.1
8012.1	8012.1	8477.6	8825.1	9389.9	9619.5	9284.4	8989.6	8676.2	8483.8
5002.1	4918.3	5250.4	5539.0	6029.2	6342.7	6181.3	5911.3	5691.0	5588.6
3230.3	3279.9	3419.6	3562.3	3900.5	4226.4	4136.4	4027.8	3894.3	3847.8
2277.6	2311.8	2324.2	2476.2	2665.5	2882.7	2938.6	2888.9	2820.7	2767.9
1672.5	1703.6	1753.2	1824.6	1942.5	2088.4	2221.8	2197.0	2165.9	2141.1
1278.5	1315.7	1390.2	1449.1	1539.1	1616.7	1743.9	1765.6	1756.3	1737.7
1051.9	1073.7	1138.8	1197.8	1250.5	1315.7	1402.6	1470.8	1474.0	1455.3
868.9	890.6	949.5	1027.1	1067.5	1114.0	1179.2	1262.9	1269.2	1262.9
735.4	750.9	806.8	884.4	934.0	968.2	1030.2	1114.0	1126.4	1114.0
629.9	645.4	679.6	760.2	819.2	853.3	893.7	983.7	996.1	993.0
543.0	561.7	595.8	645.4	729.2	760.2	797.5	868.9	890.6	890.6
481.0	493.4	527.5	571.0	645.4	692.0	723.0	782.0	813.0	813.0
418.9	437.5	471.7	518.2	577.2	629.9	657.8	713.7	754.0	754.0
341.3	366.2	425.1	459.3	512.0	583.4	608.2	651.6	704.4	704.4
297.9	319.6	369.3	418.9	462.4	533.7	564.8	608.2	657.8	664.1
235.8	270.0	316.5	375.5	412.7	481.0	521.3	567.9	614.4	626.8
180.0	214.1	276.2	316.5	369.3	434.4	487.2	524.4	571.0	589.6
139.6	158.3	226.5	273.1	328.9	391.0	446.8	477.9	527.5	539.9
99.3	114.8	176.9	232.7	285.5	344.4	400.3	431.3	474.8	484.1
62.1	90.0	130.3	192.4	238.9	301.0	347.5	381.7	409.6	418.9
40.3	52.8	99.3	155.2	207.9	263.8	294.8	319.6	344.4	350.6
18.6	34.1	77.6	127.2	173.8	214.1	242.0	263.8	285.5	288.6
9.3	21.7	55.9	102.4	145.8	164.5	198.6	217.2	229.6	223.4
6.2	12.4	43.4	90.0	117.9	133.4	155.2	173.8	189.3	173.8
6.2	9.3	37.2	74.5	99.3	99.3	124.1	133.4	133.4	127.2
3.1	6.2	31.0	59.0	93.1	74.5	93.1	86.9	86.9	86.9
3.1	6.2	21.7	27.9	40.3	34.1	40.3	40.3	46.5	46.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
283002.1  
273944.2  
261240.3  
239838.5  
213596.0  
184874.0  
157368.5  
130716.4  
107800.3  
87661.4  
70867.7  
44392.4  
28576.1  
19245.2  
12918.0  
8508.6  
5563.8  
3816.8  
2774.1  
2141.1  
1725.3  
1452.2  
1259.8  
1117.1  
993.0  
893.7  
816.1  
754.0  
707.5  
661.0  
626.8  
592.7  
536.8  
477.9  
418.9  
350.6  
285.5  
223.4  
170.7  
124.1  
83.8  
46.5  
0.0

(END OF REPORT)