

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: P637219

Luminaire Tested: **IFLD-M-SA4D-827-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637219  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-827-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22869.9 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

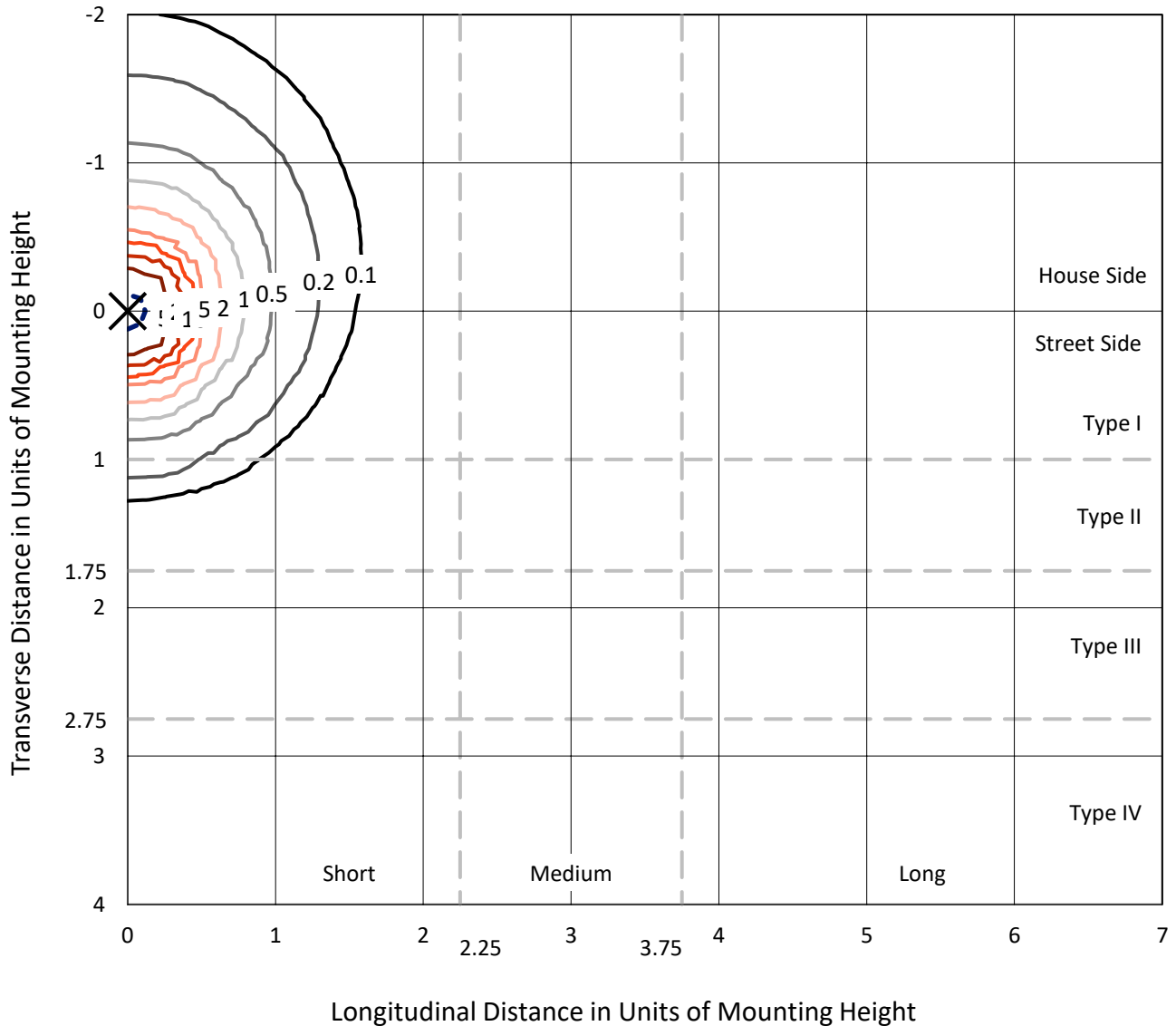
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

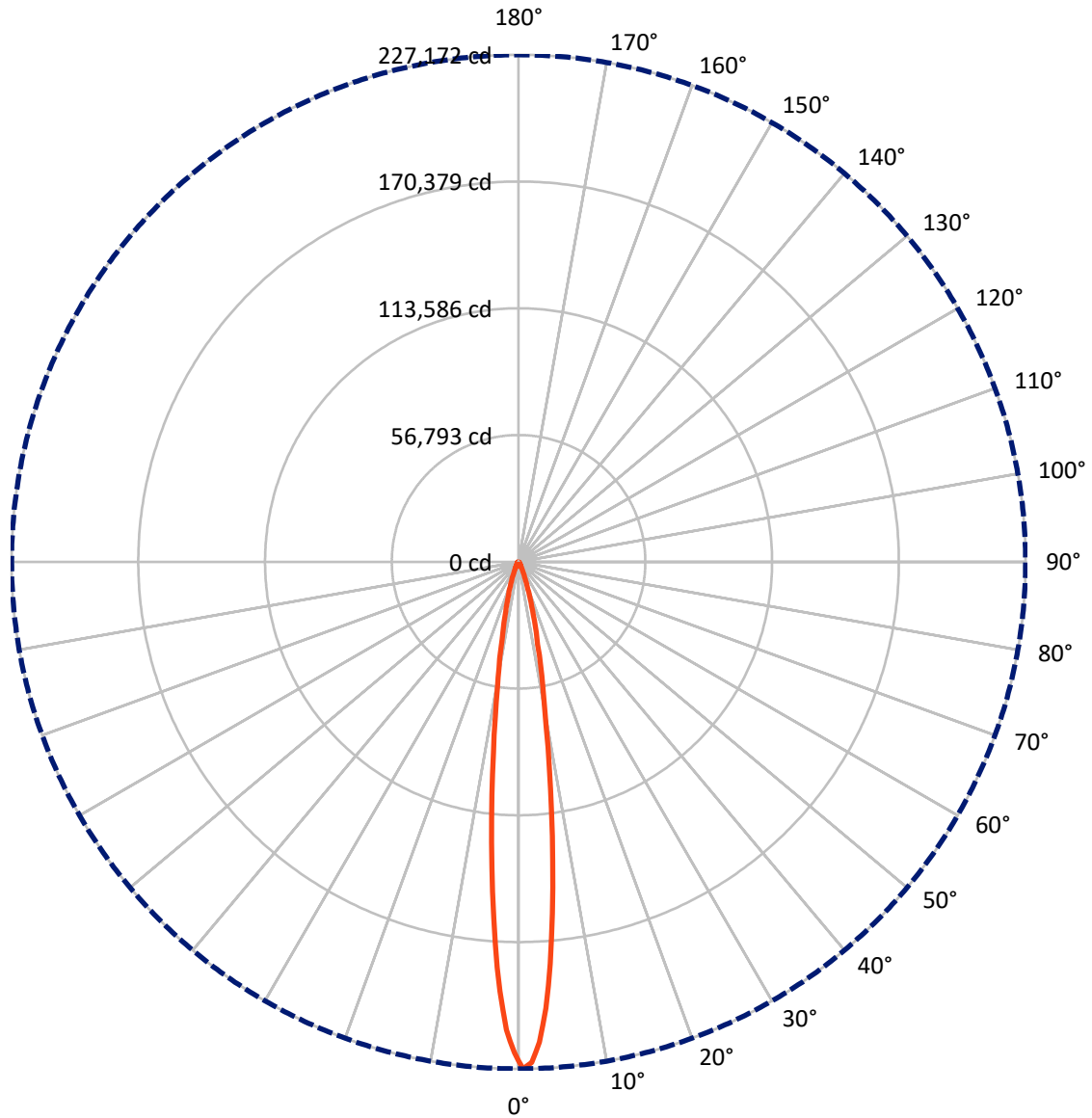
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 567.9 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	11713.6	0.0	11713.6
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	11156.4	0.0	11156.4
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	22869.9	0.0	22869.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11545.4	50.5
10°-20°	7391.3	32.3
20°-30°	2221.7	9.7
30°-40°	723.4	3.2
40°-50°	420.9	1.8
50°-60°	279.6	1.2
60°-70°	168.3	0.7
70°-80°	86.5	0.4
80°-90°	32.9	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°	22869.9	100.0
0°-180°	22869.9	100.0

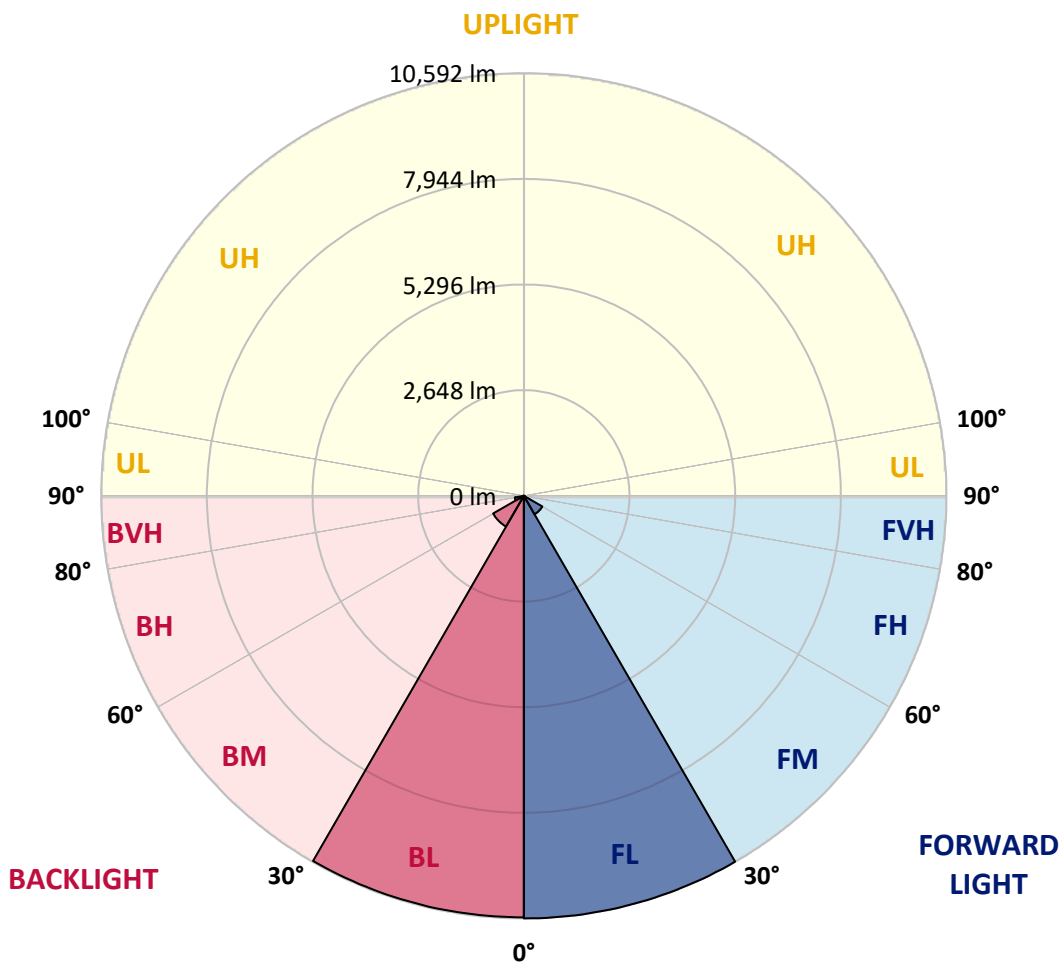


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10591.8	46.3			
FM (30°-60°)	534.5	2.3			
FH (60°-80°)	25.2	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	10566.7	46.2	B5		
BM (30°-60°)	889.4	3.9	B1/1000		
BH (60°-80°)	229.6	1.0	B1/500		G0/660
BVH (80°-90°)	27.9	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°	227172.4	227172.4	227172.4	227172.4	227172.4	227172.4	227172.4	227172.4	227172.4	227172.4
1°	224452.3	223767.3	221998.8	223256.7	224362.7	224041.3	224018.9	223899.4	223732.5	225042.7
2°	215480.1	215036.7	212421.3	213499.9	215071.6	213925.8	214643.2	214013.0	214025.4	215589.7
3°	200355.4	200597.0	196424.7	198385.1	200569.6	197792.2	198654.1	200273.2	198576.9	198066.2
4°	180697.2	178599.9	176320.7	178313.4	178878.9	177262.3	178851.5	180834.2	178477.8	178582.4
5°	158254.2	156704.9	154007.2	155237.7	153835.4	154346.0	156727.3	157544.3	155900.3	153830.4
6°	135178.5	134077.6	130704.9	132478.4	131980.2	131691.3	134697.8	132206.9	133103.6	131850.7
7°	112441.6	110384.1	108727.7	110426.5	110536.1	109666.8	113570.0	113116.7	111485.1	111106.5
8°	93159.6	91107.1	89704.7	90970.1	91797.1	90432.1	92267.8	93473.4	92198.1	92312.7
9°	75137.9	74776.8	72826.4	74480.3	75379.6	73917.4	75950.0	76385.9	75192.7	75773.1
10°	61694.6	61273.6	59716.8	60386.8	61876.4	60132.8	62083.1	62225.1	61273.6	61545.1
12.5°	38125.7	37956.3	37914.0	38011.1	37991.2	38300.0	38798.2	38230.3	38155.6	37216.5
15°	24642.5	24894.0	24635.0	25133.2	25205.4	25496.8	25192.9	24734.6	23860.3	23426.9
17.5°	15378.8	15700.1	16143.5	16873.3	17603.2	17687.9	17284.3	16746.3	16322.9	15859.5
20°	8847.7	9004.6	8937.3	9811.6	11699.7	12212.9	11692.3	11126.8	10616.2	10147.9
22.5°	5497.4	5440.1	5544.7	5838.7	6453.9	8040.6	7614.7	7049.2	6678.1	6292.0
25°	3370.2	3432.5	3392.6	3554.5	3831.0	4503.5	4600.7	4356.6	4167.3	3968.0
27.5°	2169.6	2169.6	2187.0	2276.7	2466.0	2443.6	2961.7	2772.4	2670.2	2573.1
30°	1507.0	1512.0	1512.0	1564.3	1606.6	1531.9	1666.4	1910.5	1863.2	1788.5
32.5°	1118.4	1133.4	1145.8	1173.2	1138.3	1058.6	1091.0	1375.0	1347.6	1320.2
35°	851.9	864.3	894.2	909.2	859.4	809.5	779.7	1011.3	1023.8	1016.3
37.5°	620.2	627.7	682.5	739.8	682.5	637.7	620.2	777.2	836.9	829.5
40°	475.8	478.3	488.2	553.0	553.0	518.1	523.1	580.4	685.0	685.0
42.5°	408.5	408.5	418.5	408.5	411.0	448.4	460.8	468.3	580.4	580.4
45°	353.7	353.7	358.7	333.8	308.9	386.1	396.1	398.5	488.2	500.7
47.5°	296.4	296.4	306.4	274.0	261.5	306.4	333.8	341.3	421.0	430.9
50°	219.2	221.7	251.6	224.2	231.7	236.6	288.9	293.9	356.2	378.6
52.5°	147.0	147.0	151.9	174.4	201.8	194.3	234.1	251.6	284.0	313.9
55°	119.6	119.6	117.1	112.1	149.5	161.9	171.9	209.2	231.7	269.0
57.5°	82.2	87.2	79.7	92.2	97.1	122.1	129.5	164.4	176.9	226.7
60°	10.0	12.5	17.4	67.3	64.8	82.2	97.1	129.5	144.5	174.4
62.5°	2.5	2.5	5.0	12.5	44.8	54.8	77.2	89.7	104.6	134.5
65°	0.0	0.0	2.5	5.0	10.0	29.9	39.9	52.3	74.7	94.7
67.5°	0.0	0.0	2.5	5.0	5.0	12.5	19.9	32.4	39.9	69.7
70°	0.0	0.0	2.5	5.0	5.0	10.0	12.5	14.9	27.4	37.4
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	12.5	12.5	24.9
75°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	12.5	10.0	10.0
77.5°	0.0	0.0	2.5	5.0	10.0	12.5	14.9	12.5	7.5	7.5
80°	0.0	0.0	2.5	7.5	12.5	17.4	19.9	14.9	7.5	5.0
82.5°	0.0	0.0	5.0	10.0	14.9	19.9	27.4	22.4	10.0	5.0
85°	0.0	0.0	2.5	7.5	14.9	19.9	39.9	27.4	12.5	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	14.9	10.0	5.0	2.5
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°
227172.4	0°	227172.4	227172.4	227172.4	227172.4	227172.4	227172.4	227172.4	227172.4	227172.4
223530.7	1°	225092.5	225249.4	224736.3	225530.9	225251.9	223617.9	223077.4	222437.2	221515.6
214670.6	2°	214013.0	214812.6	214852.4	215734.2	215721.7	213816.2	213225.9	214314.4	212189.6
199102.5	3°	198499.7	199431.3	198591.8	200158.6	199687.8	197376.3	196776.0	198011.4	196467.1
179409.4	4°	178873.9	178697.0	178408.1	177516.3	178614.8	177038.1	175849.9	177526.3	174223.4
156575.4	5°	156261.5	155867.9	155305.0	155041.0	155858.0	154849.2	152405.6	154854.1	148963.2
134117.4	6°	134281.8	132588.0	132505.8	132358.8	132441.0	129616.4	129785.8	131609.1	126707.0
109803.8	7°	110964.5	111275.9	110640.7	111659.5	110882.3	108969.3	108232.0	110152.5	106687.7
92815.8	8°	92168.2	91774.6	91288.9	92810.9	91463.3	90207.9	89348.5	90865.5	88292.4
75867.8	9°	75725.8	75045.8	74552.6	74475.4	74684.6	72328.2	72806.5	73954.8	72405.4
61694.6	10°	61717.0	60601.1	60872.6	60944.8	60715.6	59171.3	59186.2	59582.3	57719.1
37839.2	12.5°	37704.7	37156.7	37293.7	37368.5	37834.3	37291.2	36524.0	35971.1	35692.1
23857.8	15°	23698.4	23304.8	24109.4	24649.9	24540.3	24057.1	23695.9	23195.2	22791.7
15859.5	17.5°	15712.6	16228.2	16230.7	16723.9	16773.7	16290.5	16011.5	15560.6	15580.6
10314.8	20°	10277.4	10491.7	10937.5	11286.3	11488.0	11119.4	10785.6	10476.7	10347.2
6431.5	22.5°	6431.5	6805.1	7084.1	7537.5	7721.8	7452.8	7216.1	6964.6	6810.1
4015.3	25°	3948.1	4214.6	4446.3	4839.8	5091.4	4961.9	4745.2	4568.3	4486.1
2593.0	27.5°	2632.9	2745.0	2859.6	3131.1	3392.6	3320.4	3233.2	3126.1	3088.7
1828.3	30°	1855.7	1865.7	1987.7	2139.7	2314.0	2358.9	2319.0	2264.2	2221.9
1342.6	32.5°	1367.5	1407.4	1464.6	1559.3	1676.4	1783.5	1763.6	1738.6	1718.7
1026.2	35°	1056.1	1115.9	1163.2	1235.5	1297.8	1399.9	1417.3	1409.8	1394.9
844.4	37.5°	861.9	914.2	961.5	1003.8	1056.1	1125.9	1180.7	1183.2	1168.2
697.5	40°	714.9	762.2	824.5	856.9	894.2	946.5	1013.8	1018.8	1013.8
590.3	42.5°	602.8	647.6	709.9	749.8	777.2	827.0	894.2	904.2	894.2
505.7	45°	518.1	545.5	610.3	657.6	685.0	717.4	789.6	799.6	797.1
435.9	47.5°	450.9	478.3	518.1	585.4	610.3	640.2	697.5	714.9	714.9
386.1	50°	396.1	423.5	458.3	518.1	555.5	580.4	627.7	652.6	652.6
336.3	52.5°	351.2	378.6	416.0	463.3	505.7	528.1	572.9	605.3	605.3
274.0	55°	293.9	341.3	368.7	411.0	468.3	488.2	523.1	565.4	565.4
239.1	57.5°	256.6	296.4	336.3	371.1	428.4	453.3	488.2	528.1	533.1
189.3	60°	216.7	254.1	301.4	331.3	386.1	418.5	455.8	493.2	503.2
144.5	62.5°	171.9	221.7	254.1	296.4	348.7	391.1	421.0	458.3	473.3
112.1	65°	127.0	181.8	219.2	264.0	313.9	358.7	383.6	423.5	433.4
79.7	67.5°	92.2	142.0	186.8	229.2	276.5	321.3	346.2	381.1	388.6
49.8	70°	72.2	104.6	154.4	191.8	241.6	279.0	306.4	328.8	336.3
32.4	72.5°	42.3	79.7	124.5	166.9	211.7	236.6	256.6	276.5	281.5
14.9	75°	27.4	62.3	102.1	139.5	171.9	194.3	211.7	229.2	231.7
7.5	77.5°	17.4	44.8	82.2	117.1	132.0	159.4	174.4	184.3	179.3
5.0	80°	10.0	34.9	72.2	94.7	107.1	124.5	139.5	151.9	139.5
5.0	82.5°	7.5	29.9	59.8	79.7	79.7	99.6	107.1	107.1	102.1
2.5	85°	5.0	24.9	47.3	74.7	59.8	74.7	69.7	69.7	69.7
2.5	87.5°	5.0	17.4	22.4	32.4	27.4	32.4	32.4	37.4	37.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
227172.4  
219901.5  
209703.7  
192524.0  
171458.5  
148402.7  
126323.4  
104929.1  
86533.8  
70367.9  
56887.1  
35634.8  
22938.7  
15448.5  
10369.6  
6830.0  
4466.2  
3063.8  
2226.9  
1718.7  
1384.9  
1165.7  
1011.3  
896.7  
797.1  
717.4  
655.1  
605.3  
567.9  
530.6  
503.2  
475.8  
430.9  
383.6  
336.3  
281.5  
229.2  
179.3  
137.0  
99.6  
67.3  
37.4  
0.0

(END OF REPORT)