

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: P637022

Luminaire Tested: **IFLD-L-SA7E-722-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637022  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-722-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41352.7 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

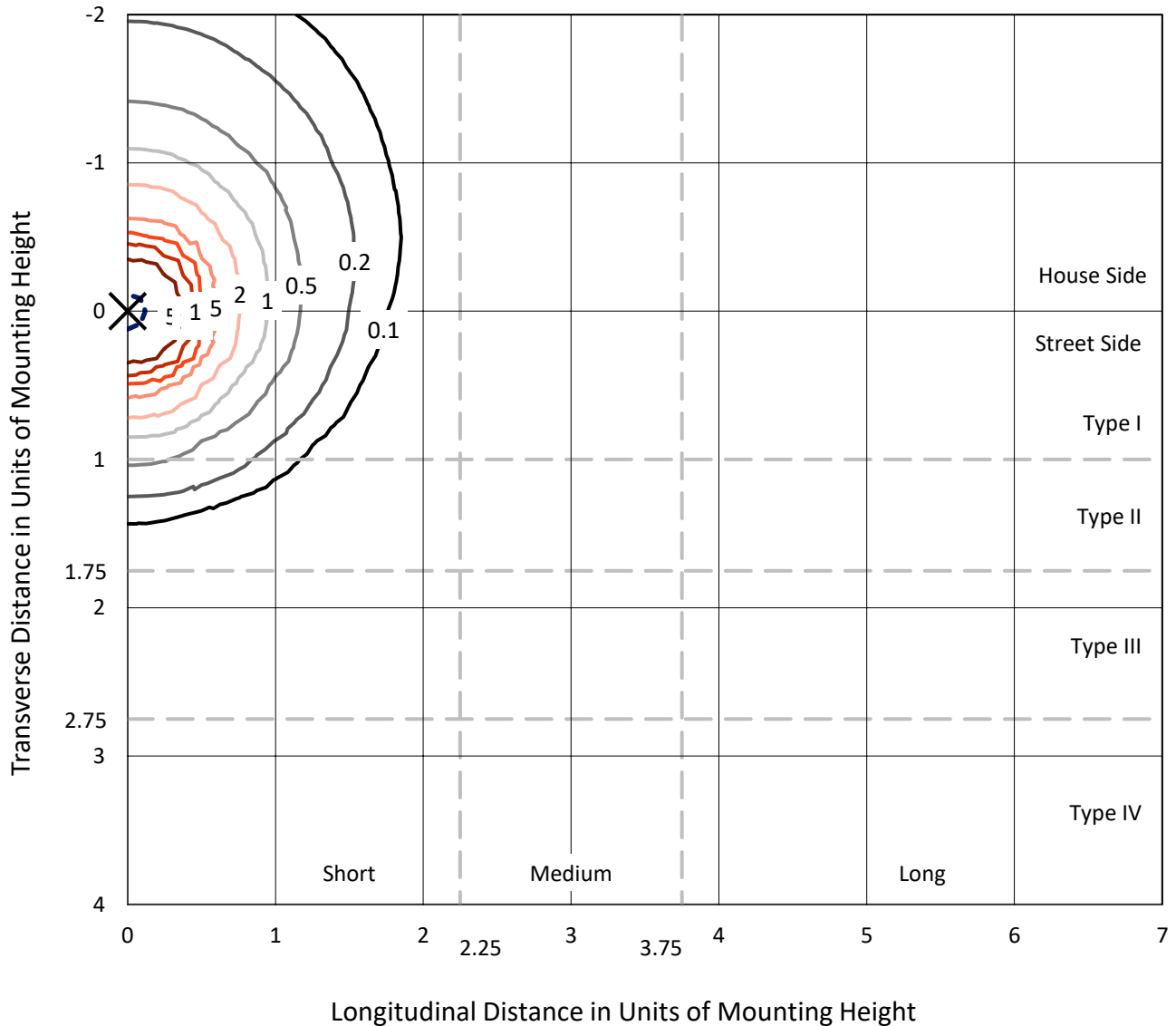
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

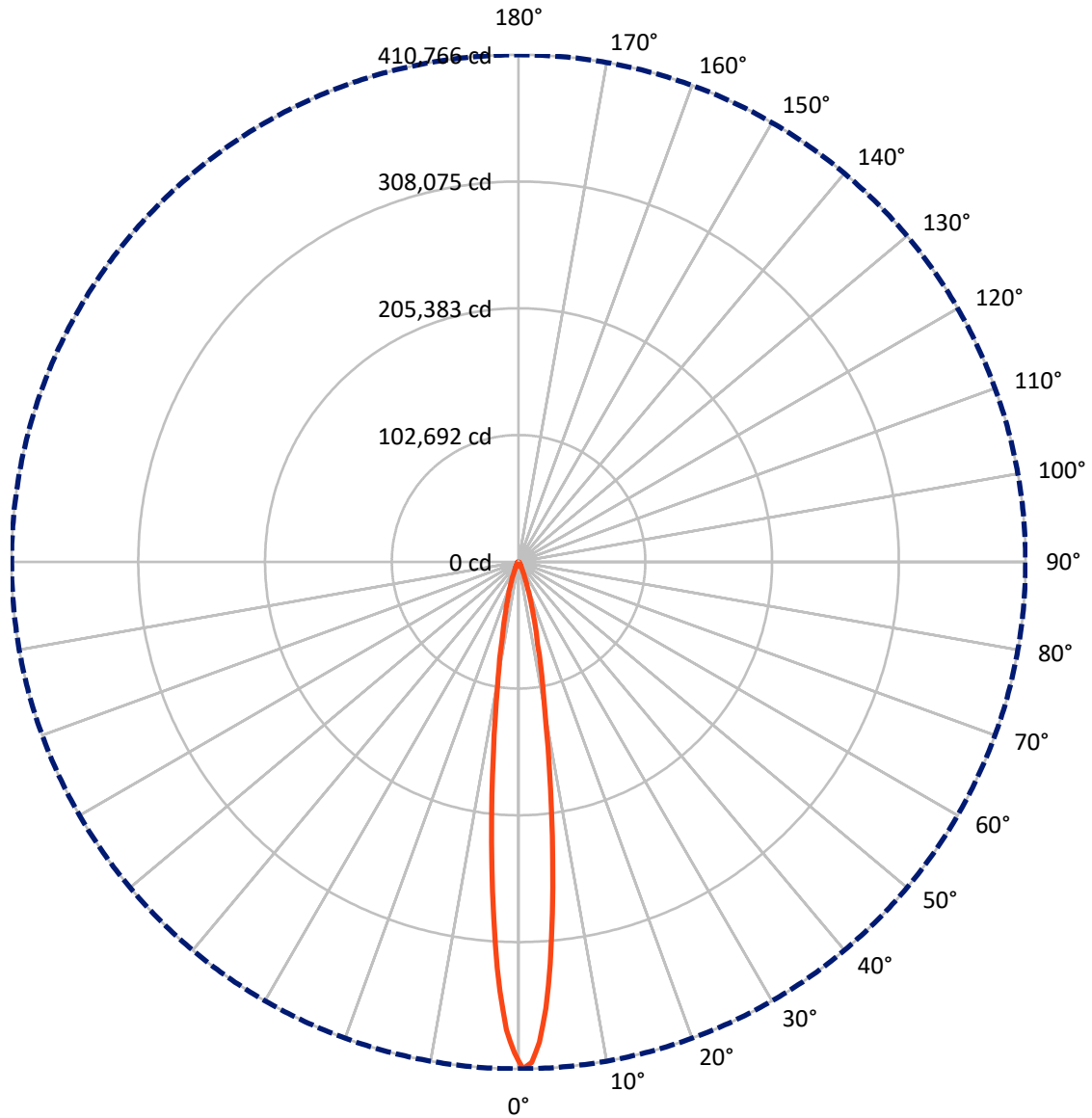
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1026.9 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	21180.1	0.0	21180.1
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	20172.6	0.0	20172.6
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	41352.7	0.0	41352.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20876.1	50.5
10°-20°	13364.8	32.3
20°-30°	4017.2	9.7
30°-40°	1308.0	3.2
40°-50°	761.0	1.8
50°-60°	505.5	1.2
60°-70°	304.3	0.7
70°-80°	156.4	0.4
80°-90°	59.4	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°	41352.7	100.0
0°-180°	41352.7	100.0

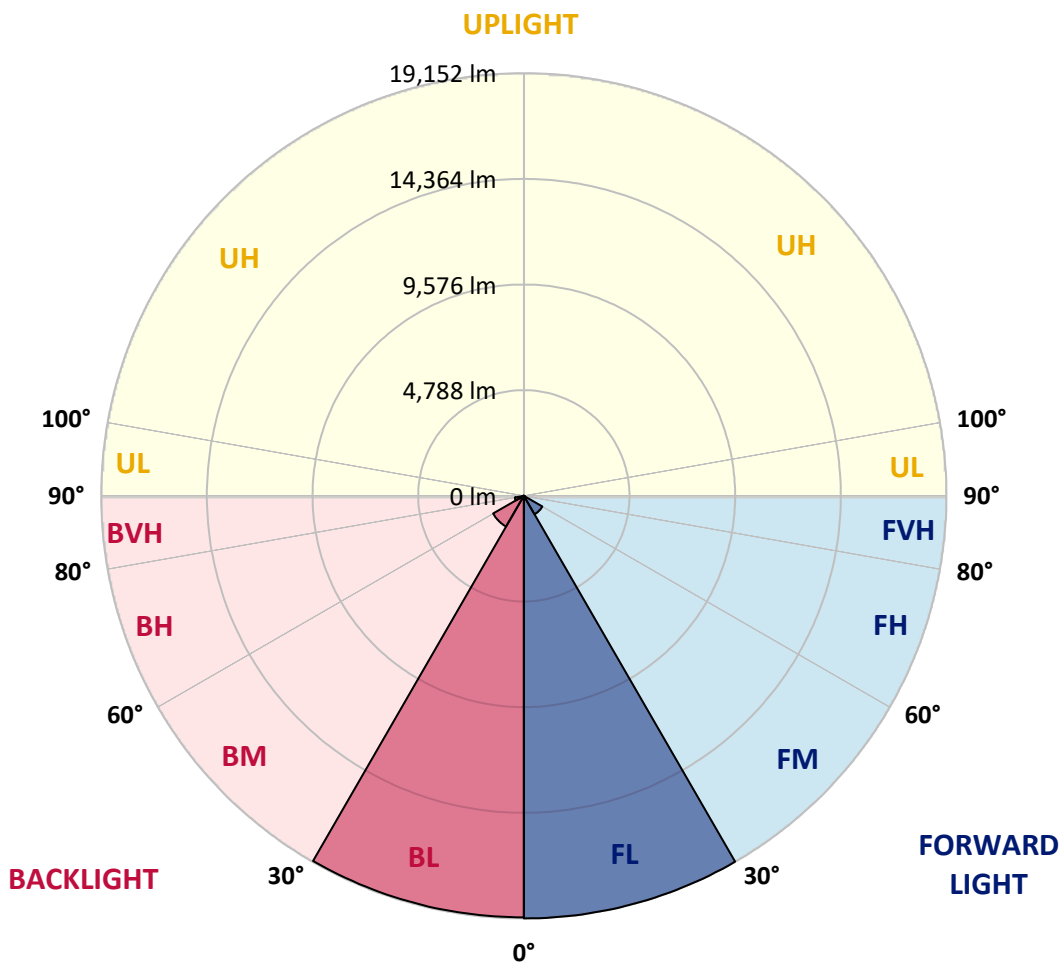


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19151.7	46.3			
FM (30°-60°)	966.4	2.3			
FH (60°-80°)	45.5	0.1			G0/660
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	19106.3	46.2	B5		
BM (30°-60°)	1608.1	3.9	B2/2500		
BH (60°-80°)	415.2	1.0	B1/500		G0/660
BVH (80°-90°)	50.5	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°	410766.1	410766.1	410766.1	410766.1	410766.1	410766.1	410766.1	410766.1	410766.1	410766.1
1°	405847.7	404609.2	401411.3	403685.8	405685.6	405104.6	405064.1	404847.9	404546.1	406915.2
2°	389624.5	388822.8	384093.6	386043.8	388885.8	386814.0	388111.1	386971.6	386994.2	389822.6
3°	362276.4	362713.3	355169.1	358713.8	362663.7	357641.8	359200.2	362127.8	359060.6	358137.2
4°	326731.1	322938.8	318817.6	322420.8	323443.2	320520.1	323393.7	326978.8	322718.1	322907.2
5°	286150.4	283348.9	278471.1	280696.1	278160.3	279083.7	283389.5	284866.8	281894.1	278151.3
6°	244425.7	242434.9	236336.5	239543.4	238642.6	238120.1	243556.4	239052.4	240673.9	238408.4
7°	203313.5	199593.2	196598.1	199669.8	199867.9	198296.0	205353.8	204534.0	201583.9	200899.3
8°	168448.3	164737.0	162201.3	164489.3	165984.6	163516.4	166835.9	169015.8	166709.7	166916.9
9°	135862.1	135209.0	131682.4	134673.0	136299.0	133655.1	137330.4	138118.6	135961.2	137010.6
10°	111554.2	110793.0	107978.0	109189.6	111883.0	108730.2	112256.8	112513.5	110793.0	111284.0
12.5°	68937.7	68631.4	68554.8	68730.5	68694.5	69253.0	70153.8	69126.8	68991.7	67293.7
15°	44557.7	45012.6	44544.2	45445.0	45575.6	46102.6	45553.1	44724.4	43143.5	42359.8
17.5°	27807.5	28388.5	29190.2	30509.9	31829.5	31982.7	31253.0	30280.2	29514.5	28676.7
20°	15998.1	16281.8	16160.2	17741.1	21155.1	22082.9	21141.6	20119.2	19195.9	18349.2
22.5°	9940.2	9836.7	10025.8	10557.3	11669.8	14538.8	13768.6	12746.2	12075.1	11377.0
25°	6093.9	6206.5	6134.4	6427.2	6927.1	8143.2	8318.8	7877.4	7535.1	7174.8
27.5°	3923.0	3923.0	3954.5	4116.6	4458.9	4418.4	5355.2	5012.9	4828.3	4652.6
30°	2724.9	2733.9	2733.9	2828.5	2905.1	2769.9	3013.2	3454.5	3369.0	3233.8
32.5°	2022.3	2049.3	2071.8	2121.4	2058.3	1914.2	1972.7	2486.2	2436.6	2387.1
35°	1540.4	1562.9	1616.9	1643.9	1553.9	1463.8	1409.7	1828.6	1851.1	1837.6
37.5°	1121.5	1135.0	1234.1	1337.7	1234.1	1153.0	1121.5	1405.2	1513.3	1499.8
40°	860.3	864.8	882.8	999.9	999.9	936.8	945.8	1049.4	1238.6	1238.6
42.5°	738.7	738.7	756.7	738.7	743.2	810.7	833.2	846.7	1049.4	1049.4
45°	639.6	639.6	648.6	603.5	558.5	698.1	716.1	720.6	882.8	905.3
47.5°	536.0	536.0	554.0	495.4	472.9	554.0	603.5	617.0	761.2	779.2
50°	396.3	400.9	454.9	405.4	418.9	427.9	522.5	531.5	644.1	684.6
52.5°	265.7	265.7	274.7	315.3	364.8	351.3	423.4	454.9	513.5	567.5
55°	216.2	216.2	211.7	202.7	270.2	292.8	310.8	378.3	418.9	486.4
57.5°	148.6	157.6	144.1	166.6	175.7	220.7	234.2	297.3	319.8	409.9
60°	18.0	22.5	31.5	121.6	117.1	148.6	175.7	234.2	261.2	315.3
62.5°	4.5	4.5	9.0	22.5	81.1	99.1	139.6	162.1	189.2	243.2
65°	0.0	0.0	4.5	9.0	18.0	54.0	72.1	94.6	135.1	171.2
67.5°	0.0	0.0	4.5	9.0	9.0	22.5	36.0	58.6	72.1	126.1
70°	0.0	0.0	4.5	9.0	9.0	18.0	22.5	27.0	49.5	67.6
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	22.5	22.5	45.0
75°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	22.5	18.0	18.0
77.5°	0.0	0.0	4.5	9.0	18.0	22.5	27.0	22.5	13.5	13.5
80°	0.0	0.0	4.5	13.5	22.5	31.5	36.0	27.0	13.5	9.0
82.5°	0.0	0.0	9.0	18.0	27.0	36.0	49.5	40.5	18.0	9.0
85°	0.0	0.0	4.5	13.5	27.0	36.0	72.1	49.5	22.5	4.5
87.5°	0.0	0.0	0.0	4.5	4.5	9.0	27.0	18.0	9.0	4.5
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°
<i>410766.1</i>	<i>410766.1</i>	<i>410766.1</i>	<i>410766.1</i>	<i>410766.1</i>	<i>410766.1</i>	<i>410766.1</i>	<i>410766.1</i>	<i>410766.1</i>	<i>410766.1</i>
404181.3	407005.3	407289.0	406361.2	407798.0	407293.5	404338.9	403361.6	402204.0	400537.6
388160.7	386971.6	388417.4	388489.5	390083.9	390061.4	386615.8	385548.4	387516.6	383674.7
360010.9	358920.9	360605.4	359087.6	361920.6	361069.3	356889.7	355804.2	358038.2	355245.7
324402.6	323434.2	323114.4	322592.0	320979.5	322965.8	320114.8	317966.4	320997.6	315025.3
283114.7	282547.2	281835.6	280817.7	280340.3	281817.6	279993.5	275575.1	280002.5	269350.6
242507.0	242804.2	239741.5	239592.9	239327.2	239475.8	234368.3	234674.6	237971.5	229107.7
198543.8	200642.6	201205.6	200057.1	201899.2	200494.0	197034.9	195701.8	199174.3	192909.3
167826.7	166655.7	165944.1	165065.8	167817.7	165381.1	163111.1	161557.2	164300.1	159647.5
137181.8	136925.0	135695.4	134803.7	134664.0	135042.4	130781.6	131646.4	133722.7	130921.2
111554.2	111594.7	109577.0	110067.9	110198.5	109784.1	106991.7	107018.7	107734.8	104365.9
68419.7	12.5° 68176.5	67185.6	67433.4	67568.5	68410.7	67428.9	66041.6	65041.8	64537.3
43139.0	15° 42850.7	42139.1	43593.9	44571.2	44373.1	43499.3	42846.2	41940.9	41211.3
28676.7	17.5° 28411.0	29343.3	29347.8	30239.6	30329.7	29455.9	28951.5	28136.3	28172.3
18650.9	20° 18583.4	18970.7	19776.9	20407.5	20772.3	20105.7	19502.2	18943.7	18709.5
11629.2	22.5° 11629.2	12304.8	12809.3	13629.0	13962.3	13475.9	13048.0	12593.1	12313.8
7260.4	25° 7138.8	7620.7	8039.6	8751.2	9206.1	8971.9	8580.1	8260.3	8111.6
4688.6	27.5° 4760.7	4963.4	5170.6	5661.5	6134.4	6003.8	5846.1	5652.5	5584.9
3305.9	30° 3355.5	3373.5	3594.2	3868.9	4184.2	4265.3	4193.2	4094.1	4017.5
2427.6	32.5° 2472.7	2544.7	2648.3	2819.5	3031.2	3224.8	3188.8	3143.8	3107.7
1855.6	35° 1909.7	2017.8	2103.4	2234.0	2346.6	2531.2	2562.8	2549.2	2522.2
1526.8	37.5° 1558.4	1653.0	1738.5	1815.1	1909.7	2035.8	2134.9	2139.4	2112.4
1261.1	40° 1292.6	1378.2	1490.8	1549.4	1616.9	1711.5	1833.1	1842.1	1833.1
1067.4	42.5° 1090.0	1171.0	1283.6	1355.7	1405.2	1495.3	1616.9	1634.9	1616.9
914.3	45° 936.8	986.4	1103.5	1189.0	1238.6	1297.1	1427.8	1445.8	1441.3
788.2	47.5° 815.2	864.8	936.8	1058.4	1103.5	1157.5	1261.1	1292.6	1292.6
698.1	50° 716.1	765.7	828.7	936.8	1004.4	1049.4	1135.0	1180.0	1180.0
608.0	52.5° 635.1	684.6	752.2	837.7	914.3	954.8	1035.9	1094.5	1094.5
495.4	55° 531.5	617.0	666.6	743.2	846.7	882.8	945.8	1022.4	1022.4
432.4	57.5° 463.9	536.0	608.0	671.1	774.7	819.7	882.8	954.8	963.8
342.3	60° 391.8	459.4	545.0	599.0	698.1	756.7	824.2	891.8	909.8
261.2	62.5° 310.8	400.9	459.4	536.0	630.6	707.1	761.2	828.7	855.8
202.7	65° 229.7	328.8	396.3	477.4	567.5	648.6	693.6	765.7	783.7
144.1	67.5° 166.6	256.7	337.8	414.4	499.9	581.0	626.1	689.1	702.6
90.1	70° 130.6	189.2	279.2	346.8	436.9	504.4	554.0	594.5	608.0
58.6	72.5° 76.6	144.1	225.2	301.8	382.8	427.9	463.9	499.9	508.9
27.0	75° 49.5	112.6	184.7	252.2	310.8	351.3	382.8	414.4	418.9
13.5	77.5° 31.5	81.1	148.6	211.7	238.7	288.3	315.3	333.3	324.3
9.0	80° 18.0	63.1	130.6	171.2	193.7	225.2	252.2	274.7	252.2
9.0	82.5° 13.5	54.0	108.1	144.1	144.1	180.2	193.7	193.7	184.7
4.5	85° 9.0	45.0	85.6	135.1	108.1	135.1	126.1	126.1	126.1
4.5	87.5° 9.0	31.5	40.5	58.6	49.5	58.6	58.6	67.6	67.6
0.0	90° 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
410766.1  
397619.0  
379179.8  
348115.9  
310025.9  
268337.2  
228414.1  
189729.5  
156467.7  
127237.0  
102861.5  
64433.7  
41477.0  
27933.6  
18750.0  
12349.9  
8075.6  
5539.9  
4026.5  
3107.7  
2504.2  
2107.9  
1828.6  
1621.4  
1441.3  
1297.1  
1184.5  
1094.5  
1026.9  
959.3  
909.8  
860.3  
779.2  
693.6  
608.0  
508.9  
414.4  
324.3  
247.7  
180.2  
121.6  
67.6  
0.0

(END OF REPORT)