

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: P638412

Luminaire Tested: **IFLD-L-SA7C-735-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638412  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-735-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32225.8 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

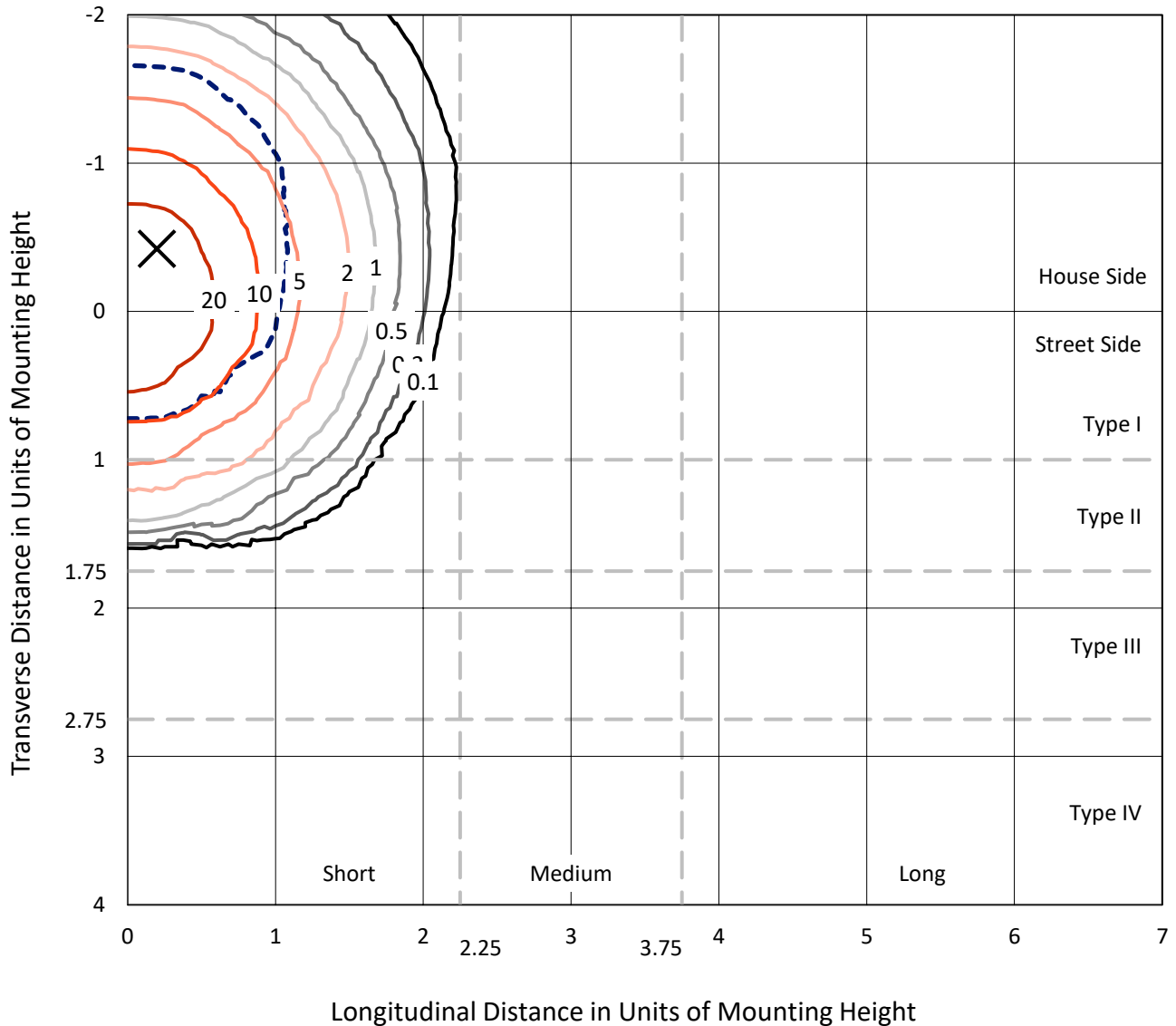
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

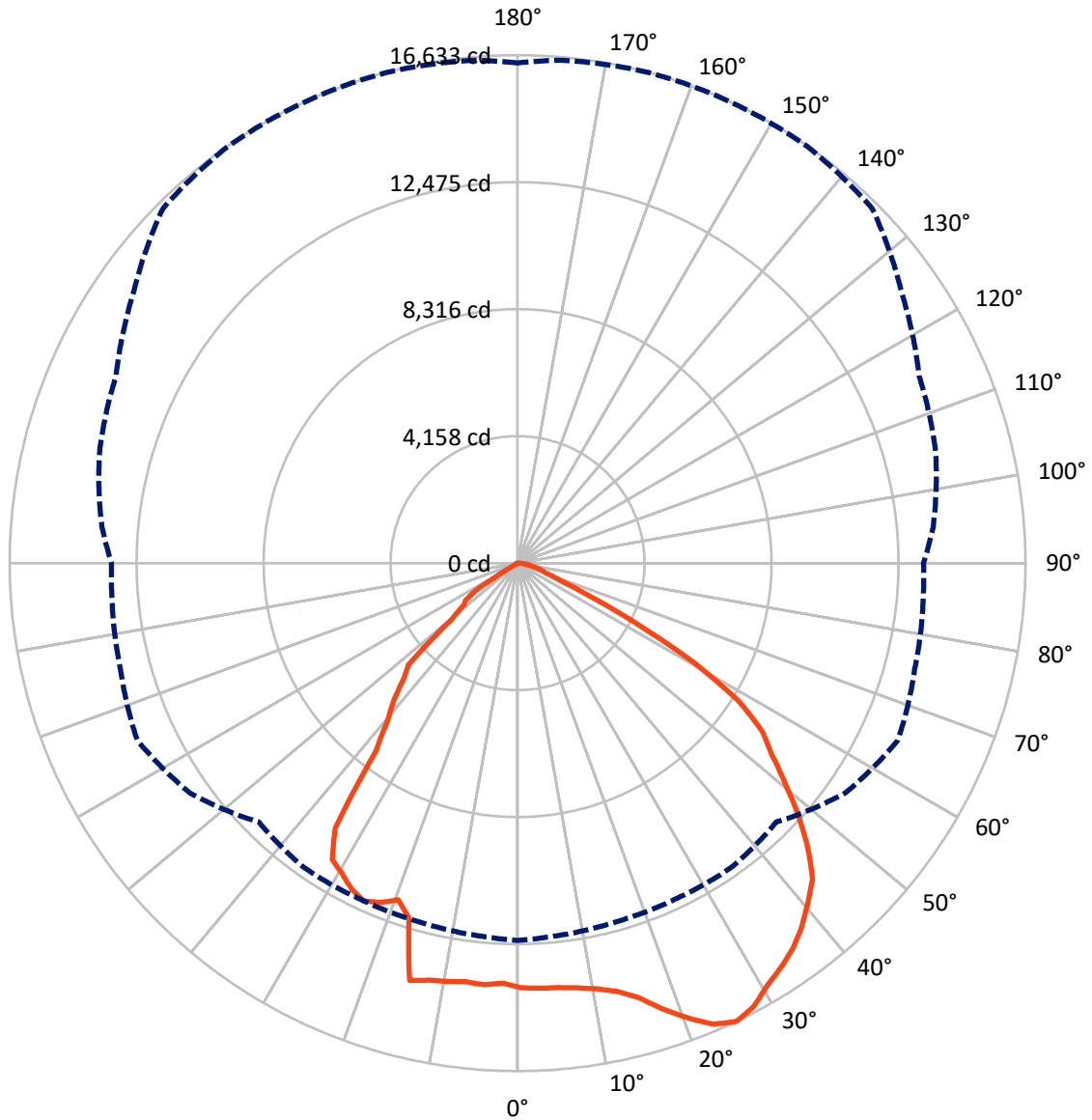
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19951.1	0.0	19951.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	12274.7	0.0	12274.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	32225.8	0.0	32225.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1334.0	4.1
10°-20°	4073.3	12.6
20°-30°	6439.6	20.0
30°-40°	7274.1	22.6
40°-50°	6812.3	21.1
50°-60°	4696.6	14.6
60°-70°	1261.8	3.9
70°-80°	263.0	0.8
80°-90°	71.1	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°	32225.8	100.0
0°-180°	32225.8	100.0



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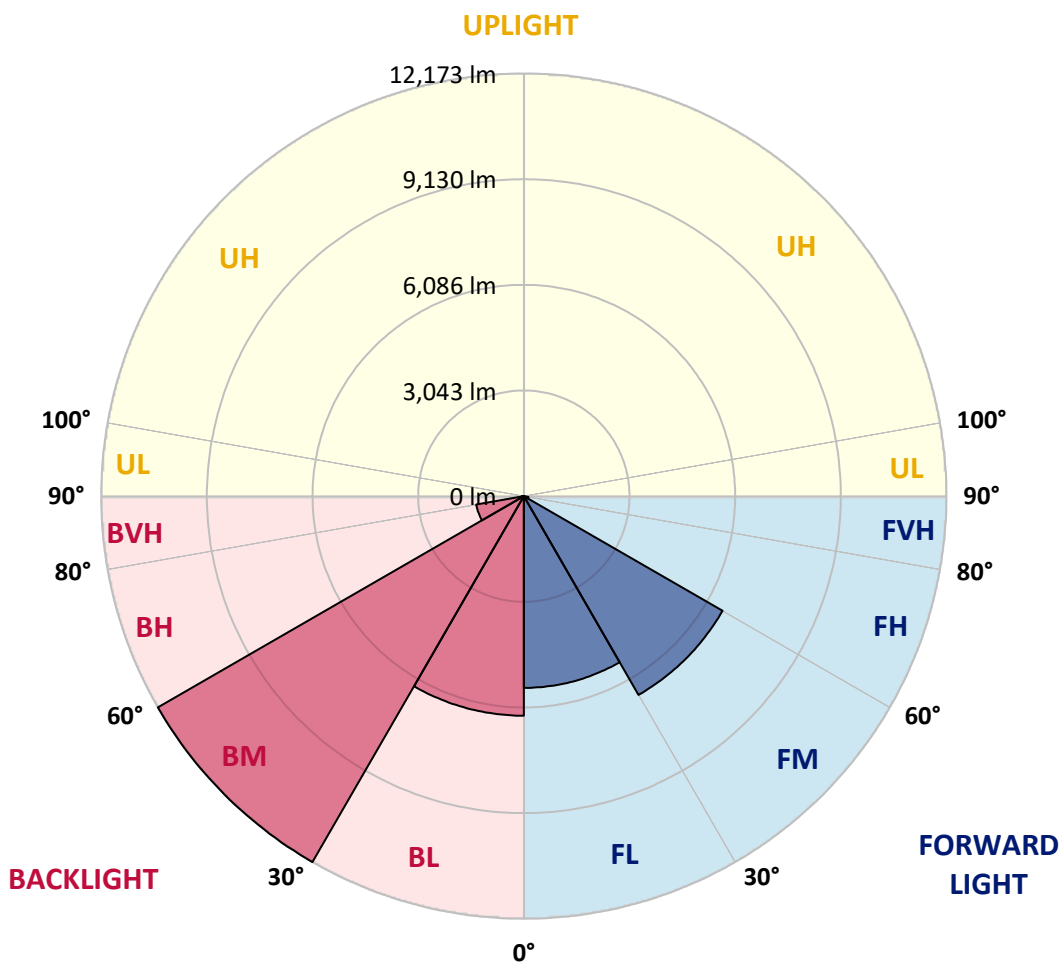
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5522.5	17.1			
FM (30°-60°)	6610.2	20.5			
FH (60°-80°)	132.5	0.4			G0/660
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	6324.4	19.6	B5		
BM (30°-60°)	12172.8	37.8	B5		
BH (60°-80°)	1392.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	61.6	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13904.9	13904.9	13904.9	13904.9	13904.9	13904.9	13904.9	13904.9	13904.9	13904.9
2.5°	13966.4	13876.5	13791.2	13762.8	13881.2	14009.1	13928.6	13933.3	13904.9	13957.0
5°	14070.6	13947.5	13890.7	13848.0	13867.0	13999.6	13885.9	13928.6	13881.2	13942.8
7.5°	14032.7	13947.5	13890.7	13810.2	13871.7	14028.0	13919.1	13923.8	13900.1	13957.0
10°	14009.1	13947.5	13876.5	13885.9	13957.0	14089.6	14004.3	14051.7	14018.5	14051.7
12.5°	14065.9	13999.6	13961.7	13961.7	14023.3	14174.8	14132.2	14174.8	14160.6	14189.0
15°	13530.7	13592.3	13952.2	14113.3	14236.4	14387.9	14369.0	14411.6	14421.1	14463.7
17.5°	11413.7	11352.2	11323.8	12152.6	14354.8	14823.7	14809.4	14804.7	14757.4	14724.2
20°	11693.2	11669.5	11636.3	11697.9	11944.2	15051.0	15145.7	14563.2	14392.7	14378.5
22.5°	12138.3	12100.5	11977.3	11982.1	12057.8	13085.5	14676.8	14146.4	14089.6	14056.4
25°	12356.2	12280.4	12181.0	12152.6	12176.2	11986.8	13109.2	13739.1	13459.7	13331.8
27.5°	11972.6	11977.3	11896.8	11972.6	11882.6	11030.1	10551.8	12943.5	12934.0	12877.2
30°	11683.7	11669.5	11574.8	11669.5	11049.1	10097.1	9893.5	12072.0	11972.6	11896.8
32.5°	10798.1	10807.5	11082.2	11451.6	10433.4	9680.4	9064.7	10783.9	11726.3	11683.7
35°	7724.4	7743.3	8719.0	10542.3	9500.4	8851.6	8804.2	9320.4	11338.0	11356.9
37.5°	7435.5	7435.5	7411.8	7710.2	8766.3	8515.3	8610.0	8557.9	10386.0	10433.4
40°	7227.1	7184.5	7151.3	6682.5	6095.2	8278.5	8344.8	8108.0	9817.7	9827.2
42.5°	6976.1	6928.8	6938.2	6071.5	5455.9	7691.3	7506.5	7189.2	8870.5	8880.0
45°	6516.7	6597.2	6654.1	5313.8	5266.4	5493.8	6924.0	6725.1	8231.2	8406.4
47.5°	3315.2	3386.2	5195.4	4887.5	4996.5	4882.8	5849.0	5853.7	6848.2	7430.8
50°	3007.4	2988.4	2993.1	2851.1	4612.9	3949.8	4229.2	5365.9	5484.3	6317.8
52.5°	2803.7	2799.0	2510.1	2230.7	2898.4	3476.2	3068.9	3883.5	4077.7	5351.7
55°	2074.4	2225.9	1979.6	2098.0	1813.9	2784.8	2770.6	3504.6	3570.9	4290.8
57.5°	18.9	23.7	56.8	1596.0	1255.0	1392.4	1913.3	2391.7	2510.1	3343.6
60°	4.7	9.5	23.7	47.4	814.6	857.2	1278.7	1382.9	1558.1	1993.9
62.5°	0.0	0.0	9.5	23.7	42.6	350.5	407.3	445.2	686.7	1018.2
65°	0.0	0.0	4.7	14.2	23.7	56.8	99.5	208.4	298.4	369.4
67.5°	0.0	0.0	4.7	9.5	18.9	28.4	56.8	80.5	127.9	217.9
70°	0.0	0.0	4.7	9.5	14.2	23.7	37.9	56.8	75.8	108.9
72.5°	0.0	0.0	4.7	9.5	9.5	28.4	28.4	42.6	56.8	71.0
75°	0.0	0.0	4.7	4.7	9.5	18.9	28.4	33.2	37.9	56.8
77.5°	0.0	0.0	4.7	9.5	14.2	18.9	23.7	37.9	33.2	33.2
80°	0.0	0.0	4.7	14.2	14.2	23.7	28.4	37.9	23.7	23.7
82.5°	0.0	0.0	4.7	18.9	14.2	47.4	47.4	52.1	18.9	18.9
85°	0.0	0.0	14.2	9.5	28.4	47.4	42.6	28.4	23.7	14.2
87.5°	0.0	0.0	4.7	4.7	9.5	14.2	33.2	28.4	9.5	9.5
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°
13904.9	0°	13904.9	13904.9	13904.9	13904.9	13904.9	13904.9	13904.9	13904.9	13904.9
13819.6	2.5°	14009.1	13947.5	14075.4	14061.2	13999.6	13971.2	13938.0	13909.6	13701.2
13829.1	5°	14013.8	13919.1	14075.4	14047.0	14037.5	13990.1	13961.7	14004.3	13814.9
13867.0	7.5°	14013.8	13919.1	14089.6	14099.1	14084.8	14047.0	14042.2	14070.6	13914.3
13933.3	10°	14108.5	14070.6	14212.7	14226.9	14208.0	14198.5	14174.8	14155.9	13990.1
14160.6	12.5°	14307.4	14231.7	14392.7	14435.3	14421.1	14444.8	14387.9	14416.4	14245.9
14392.7	15°	14549.0	14553.7	14676.8	14771.6	14762.1	14837.9	14752.6	14828.4	14705.3
14657.9	17.5°	14918.4	14970.5	15145.7	15287.8	15339.9	15396.7	15339.9	15363.6	15188.3
14364.3	20°	14530.0	14724.2	15567.2	15827.7	15936.6	15988.7	15894.0	15922.4	15747.2
14004.3	22.5°	14179.6	14430.6	15178.9	15993.4	16329.7	16433.9	16400.7	16396.0	16329.7
13293.9	25°	13663.3	14170.1	14506.3	15368.3	16424.4	16613.9	16632.8	16628.1	16528.6
12858.2	27.5°	13028.7	13142.4	14013.8	14539.5	15761.4	16481.3	16452.8	16315.5	16182.9
11953.6	30°	12218.9	12735.1	13128.2	13966.4	14904.2	16074.0	16074.0	15969.8	15832.4
11631.6	32.5°	11806.8	12474.6	12839.3	13142.4	13942.8	15619.3	15808.7	15699.8	15590.9
11380.6	35°	11589.0	11688.4	12540.9	12815.6	13492.8	14743.1	15510.4	15401.4	15320.9
10712.8	37.5°	11110.6	11342.7	11740.5	12474.6	12683.0	14028.0	15112.6	15055.7	14961.0
9846.1	40°	10045.0	10665.5	11276.4	11972.6	12190.4	13109.2	14629.5	14653.2	14525.3
8922.6	42.5°	9415.2	9836.7	10793.3	11262.2	11849.5	12517.2	14160.6	14198.5	14108.5
8453.7	45°	8676.3	9145.2	9817.7	10670.2	11470.6	11702.6	13331.8	13729.6	13653.9
7520.8	47.5°	7999.1	8378.0	9202.0	10064.0	10949.6	10916.5	12379.9	13128.2	13024.0
6805.6	50°	7037.7	7700.7	8089.1	8880.0	10201.3	10291.3	11366.4	12422.5	12337.3
5782.6	52.5°	5934.2	6767.7	7511.3	8235.9	9443.6	9656.7	10423.9	11702.6	11645.8
4418.7	55°	5185.9	5792.1	6630.4	7212.9	8524.8	9093.1	9718.3	11015.9	10987.5
3632.5	57.5°	3689.3	4859.1	5550.6	6365.2	7056.6	8084.3	8548.5	9618.8	9353.6
2012.8	60°	2500.6	3050.0	3893.0	4769.1	5233.3	6261.0	6692.0	7549.2	7478.1
1202.9	62.5°	1321.3	1828.1	2429.6	2870.0	3206.3	4205.6	4385.5	5309.0	5285.4
483.1	65°	582.5	772.0	1316.6	1543.9	1889.7	2353.8	2510.1	2841.6	2761.1
236.8	67.5°	303.1	459.4	743.6	914.0	1150.8	1326.1	1453.9	1558.1	1624.4
156.3	70°	184.7	336.3	459.4	634.6	790.9	933.0	1032.4	1174.5	1259.8
80.5	72.5°	137.3	213.1	317.3	487.8	573.1	738.8	838.3	942.5	1018.2
66.3	75°	75.8	142.1	255.7	383.6	459.4	601.5	691.5	762.5	786.2
37.9	77.5°	47.4	108.9	213.1	298.4	359.9	487.8	464.1	530.4	587.3
28.4	80°	33.2	80.5	165.8	246.3	251.0	312.6	369.4	426.2	464.1
18.9	82.5°	23.7	66.3	123.1	189.4	165.8	241.5	288.9	331.5	241.5
14.2	85°	18.9	47.4	61.6	113.7	94.7	170.5	146.8	142.1	94.7
9.5	87.5°	14.2	23.7	42.6	52.1	37.9	37.9	47.4	56.8	47.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
13904.9  
13559.1  
13653.9  
13734.4  
13852.8  
14094.3  
14501.6  
15036.8  
15624.0  
16116.6  
*16377.1*  
16078.7  
15780.3  
15500.9  
15207.3  
14866.3  
14496.9  
14099.1  
13663.3  
13099.8  
12351.5  
11683.7  
11020.7  
9325.2  
7482.9  
5290.1  
2727.9  
1624.4  
1264.5  
1032.4  
772.0  
596.7  
468.9  
175.2  
94.7  
47.4  
0.0

(END OF REPORT)