

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: P638383

Luminaire Tested: **IFLD-L-SA7C-730-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638383  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-730-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29752.4 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

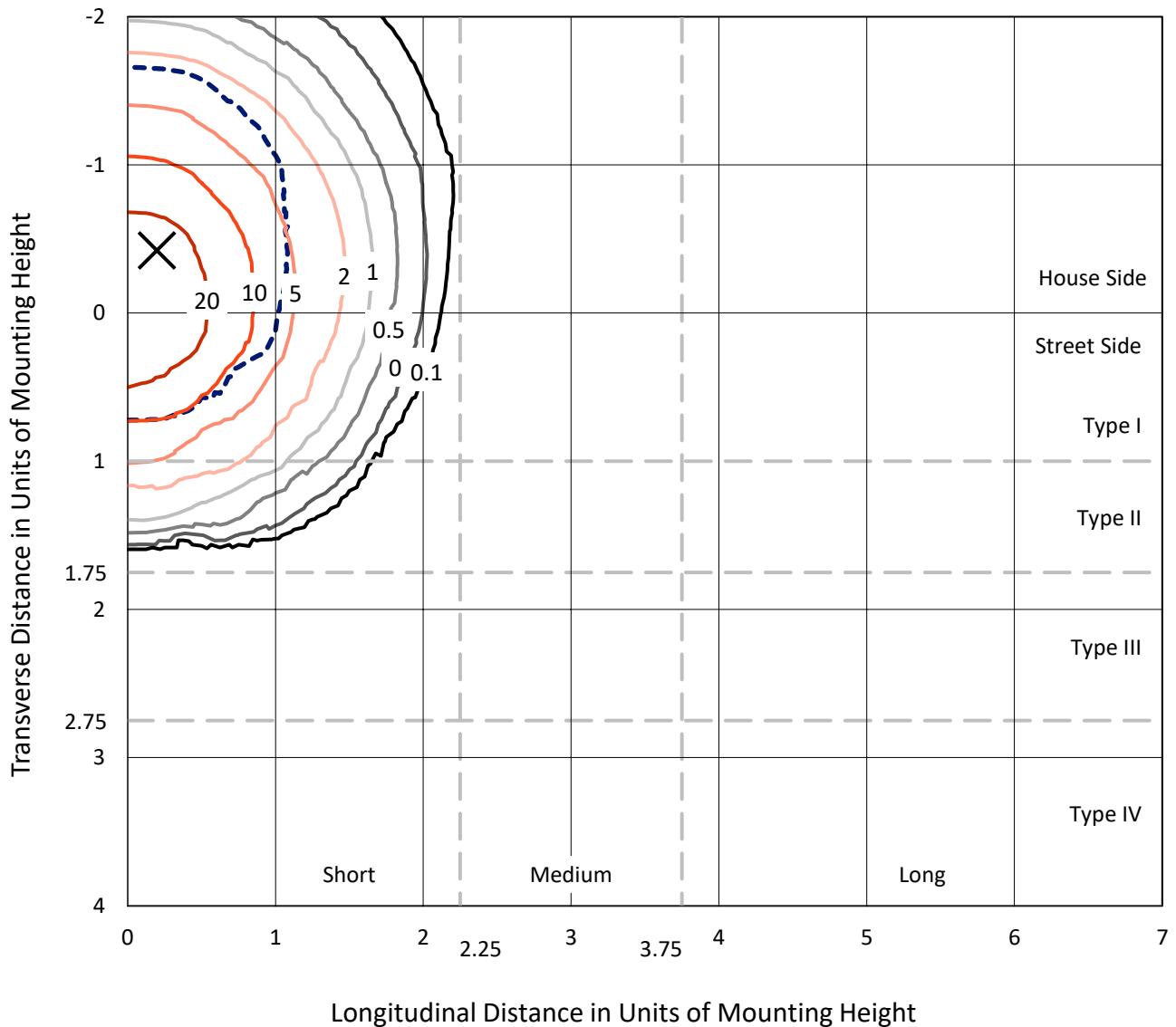
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

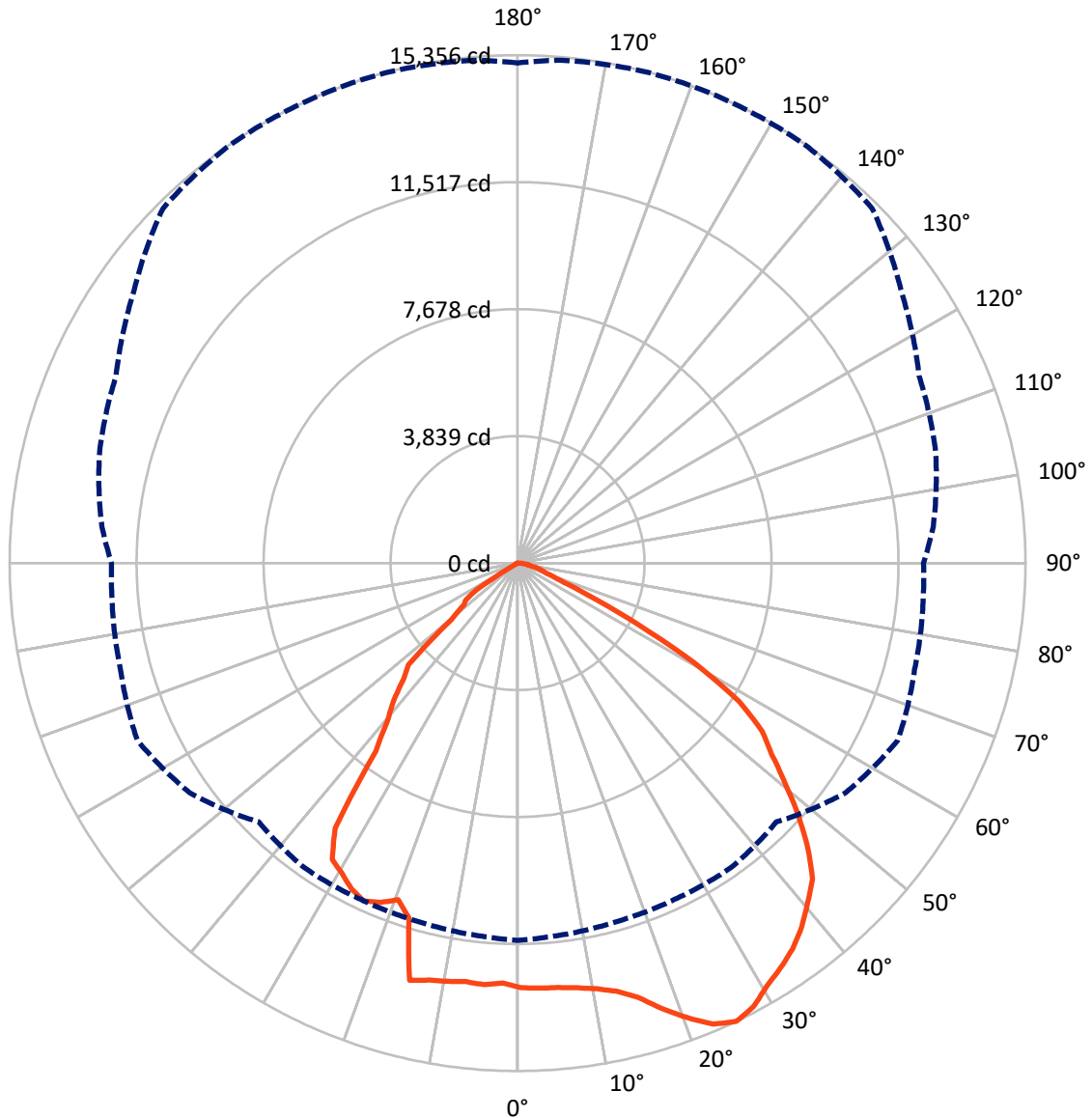
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.1 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	18419.8	0.0	18419.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	11332.6	0.0	11332.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	29752.4	0.0	29752.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1231.6	4.1
10°-20°	3760.6	12.6
20°-30°	5945.4	20.0
30°-40°	6715.8	22.6
40°-50°	6289.5	21.1
50°-60°	4336.1	14.6
60°-70°	1165.0	3.9
70°-80°	242.8	0.8
80°-90°	65.7	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°	29752.4	100.0
0°-180°	29752.4	100.0



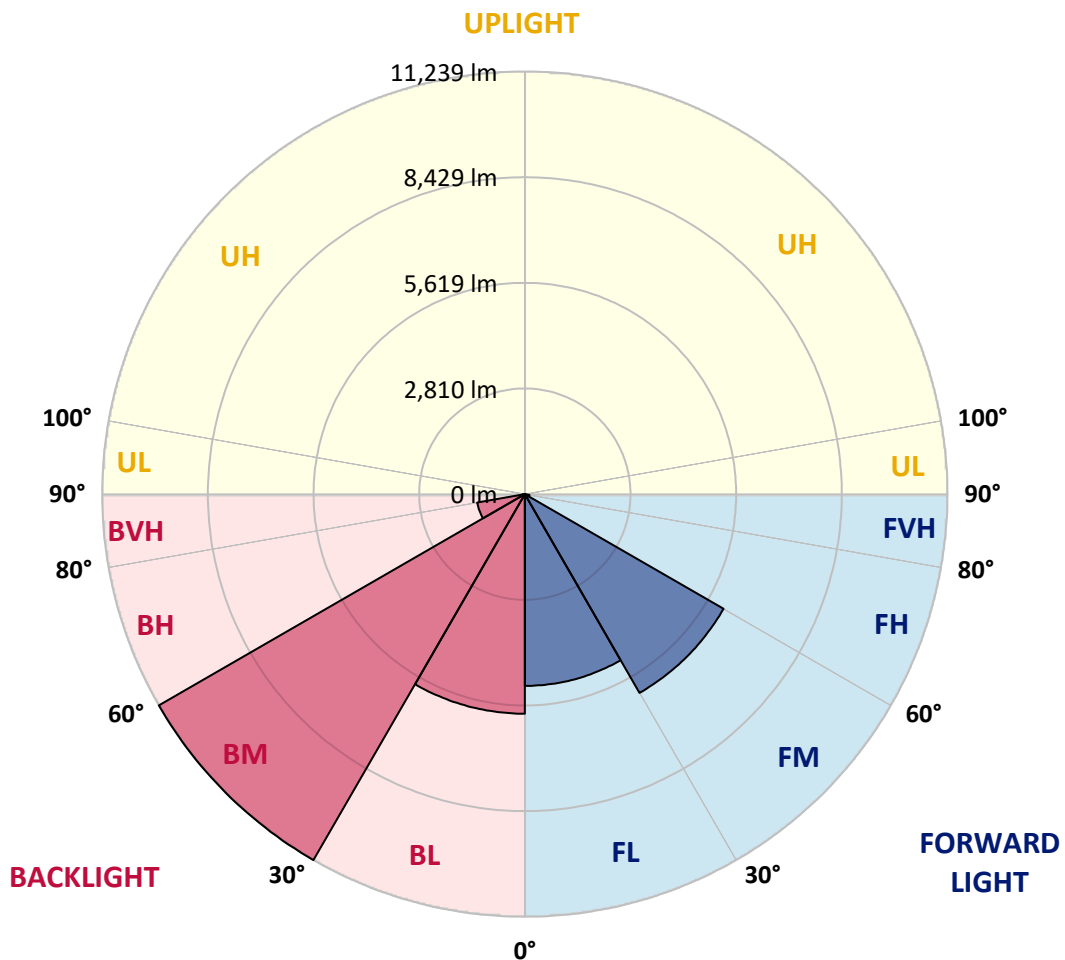
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5098.6	17.1			
FM (30°-60°)	6102.9	20.5			
FH (60°-80°)	122.3	0.4			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	5839.0	19.6	B5		
BM (30°-60°)	11238.5	37.8	B5		
BH (60°-80°)	1285.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	56.9	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°	12837.7	12837.7	12837.7	12837.7	12837.7	12837.7	12837.7	12837.7	12837.7	12837.7
2.5°	12894.5	12811.4	12732.7	12706.5	12815.8	12933.8	12859.5	12863.9	12837.7	12885.8
5°	12990.7	12877.0	12824.5	12785.2	12802.7	12925.1	12820.2	12859.5	12815.8	12872.6
7.5°	12955.7	12877.0	12824.5	12750.2	12807.0	12951.3	12850.8	12855.1	12833.3	12885.8
10°	12933.8	12877.0	12811.4	12820.2	12885.8	13008.2	12929.5	12973.2	12942.6	12973.2
12.5°	12986.3	12925.1	12890.1	12890.1	12947.0	13086.9	13047.5	13086.9	13073.8	13100.0
15°	12492.2	12549.1	12881.4	13030.0	13143.7	13283.6	13266.2	13305.5	13314.3	13353.6
17.5°	10537.7	10480.9	10454.6	11219.8	13253.0	13685.9	13672.8	13668.4	13624.7	13594.1
20°	10795.7	10773.8	10743.2	10800.1	11027.4	13895.8	13983.2	13445.4	13288.0	13274.9
22.5°	11206.7	11171.7	11058.0	11062.4	11132.4	12081.2	13550.4	13060.7	13008.2	12977.6
25°	11407.8	11337.9	11246.1	11219.8	11241.7	11066.8	12103.1	12684.6	12426.6	12308.6
27.5°	11053.7	11058.0	10983.7	11053.7	10970.6	10183.5	9741.9	11950.0	11941.3	11888.8
30°	10787.0	10773.8	10686.4	10773.8	10201.0	9322.2	9134.1	11145.5	11053.7	10983.7
32.5°	9969.3	9978.0	10231.6	10572.7	9632.6	8937.4	8369.0	9956.2	10826.3	10787.0
35°	7131.5	7149.0	8049.8	9733.2	8771.2	8172.2	8128.5	8605.1	10467.8	10485.3
37.5°	6864.8	6864.8	6843.0	7118.4	8093.5	7861.8	7949.2	7901.1	9588.9	9632.6
40°	6672.4	6633.1	6602.5	6169.6	5627.4	7643.1	7704.3	7485.7	9064.2	9072.9
42.5°	6440.7	6397.0	6405.7	5605.5	5037.1	7100.9	6930.4	6637.5	8189.7	8198.4
45°	6016.6	6090.9	6143.4	4905.9	4862.2	5072.1	6392.6	6208.9	7599.4	7761.2
47.5°	3060.7	3126.3	4796.6	4512.4	4613.0	4508.0	5400.0	5404.4	6322.6	6860.4
50°	2776.5	2759.0	2763.4	2632.2	4258.8	3646.7	3904.6	4954.0	5063.4	5832.9
52.5°	2588.5	2584.1	2317.4	2059.4	2676.0	3209.4	2833.4	3585.4	3764.7	4940.9
55°	1915.2	2055.1	1827.7	1937.0	1674.7	2571.0	2557.9	3235.6	3296.9	3961.5
57.5°	17.5	21.9	52.5	1473.5	1158.7	1285.5	1766.5	2208.1	2317.4	3087.0
60°	4.4	8.7	21.9	43.7	752.1	791.4	1180.6	1276.8	1438.6	1840.8
62.5°	0.0	0.0	8.7	21.9	39.4	323.6	376.0	411.0	634.0	940.1
65°	0.0	0.0	4.4	13.1	21.9	52.5	91.8	192.4	275.5	341.1
67.5°	0.0	0.0	4.4	8.7	17.5	26.2	52.5	74.3	118.1	201.1
70°	0.0	0.0	4.4	8.7	13.1	21.9	35.0	52.5	70.0	100.6
72.5°	0.0	0.0	4.4	8.7	8.7	26.2	26.2	39.4	52.5	65.6
75°	0.0	0.0	4.4	4.4	8.7	17.5	26.2	30.6	35.0	52.5
77.5°	0.0	0.0	4.4	8.7	13.1	17.5	21.9	35.0	30.6	30.6
80°	0.0	0.0	4.4	13.1	13.1	21.9	26.2	35.0	21.9	21.9
82.5°	0.0	0.0	4.4	17.5	13.1	43.7	43.7	48.1	17.5	17.5
85°	0.0	0.0	13.1	8.7	26.2	43.7	39.4	26.2	21.9	13.1
87.5°	0.0	0.0	4.4	4.4	8.7	13.1	30.6	26.2	8.7	8.7
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°
12837.7	0°	12837.7	12837.7	12837.7	12837.7	12837.7	12837.7	12837.7	12837.7	12837.7
12758.9	2.5°	12933.8	12877.0	12995.1	12981.9	12925.1	12898.9	12868.3	12842.0	12649.6
12767.7	5°	12938.2	12850.8	12995.1	12968.8	12960.1	12916.4	12890.1	12929.5	12754.6
12802.7	7.5°	12938.2	12850.8	13008.2	13016.9	13003.8	12968.8	12964.5	12990.7	12846.4
12863.9	10°	13025.7	12990.7	13121.9	13135.0	13117.5	13108.7	13086.9	13069.4	12916.4
13073.8	12.5°	13209.3	13139.4	13288.0	13327.4	13314.3	13336.1	13283.6	13309.9	13152.5
13288.0	15°	13432.3	13436.7	13550.4	13637.8	13629.1	13699.0	13620.3	13690.3	13576.6
13532.9	17.5°	13773.4	13821.5	13983.2	14114.4	14162.5	14215.0	14162.5	14184.4	14022.6
13261.8	20°	13414.8	13594.1	14372.4	14612.9	14713.5	14761.6	14674.1	14700.3	14538.6
12929.5	22.5°	13091.3	13323.0	14013.9	14765.9	15076.4	15172.6	15142.0	15137.6	15076.4
12273.6	25°	12614.7	13082.5	13393.0	14188.8	15163.8	15338.7	15356.2	15351.8	15260.0
11871.3	27.5°	12028.7	12133.7	12938.2	13423.6	14551.7	15216.3	15190.1	15063.3	14940.8
11036.2	30°	11281.0	11757.6	12120.6	12894.5	13760.3	14840.3	14840.3	14744.1	14617.3
10738.9	32.5°	10900.6	11517.2	11853.8	12133.7	12872.6	14420.5	14595.4	14494.8	14394.3
10507.1	35°	10699.5	10791.3	11578.4	11832.0	12457.2	13611.6	14319.9	14219.4	14145.0
9890.6	37.5°	10257.9	10472.1	10839.4	11517.2	11709.6	12951.3	13952.6	13900.2	13812.7
9090.4	40°	9274.1	9846.9	10410.9	11053.7	11254.8	12103.1	13506.6	13528.5	13410.5
8237.8	42.5°	8692.5	9081.7	9964.9	10397.8	10940.0	11556.5	13073.8	13108.7	13025.7
7804.9	45°	8010.4	8443.3	9064.2	9851.2	10590.2	10804.4	12308.6	12675.9	12605.9
6943.5	47.5°	7385.1	7734.9	8495.8	9291.6	10109.2	10078.6	11429.7	12120.6	12024.4
6283.3	50°	6497.5	7109.7	7468.2	8198.4	9418.4	9501.4	10494.0	11469.1	11390.4
5338.8	52.5°	5478.7	6248.3	6934.8	7603.8	8718.8	8915.5	9623.9	10804.4	10752.0
4079.5	55°	4787.9	5347.6	6121.5	6659.3	7870.5	8395.2	8972.4	10170.4	10144.2
3353.7	57.5°	3406.2	4486.2	5124.6	5876.6	6515.0	7463.9	7892.4	8880.5	8635.7
1858.3	60°	2308.7	2815.9	3594.2	4403.1	4831.6	5780.4	6178.3	6969.8	6904.2
1110.6	62.5°	1219.9	1687.8	2243.1	2649.7	2960.2	3882.8	4048.9	4901.6	4879.7
446.0	65°	537.8	712.7	1215.6	1425.4	1744.6	2173.1	2317.4	2623.5	2549.2
218.6	67.5°	279.8	424.1	686.5	843.9	1062.5	1224.3	1342.4	1438.6	1499.8
144.3	70°	170.5	310.4	424.1	585.9	730.2	861.4	953.2	1084.4	1163.1
74.3	72.5°	126.8	196.8	293.0	450.4	529.1	682.1	773.9	870.1	940.1
61.2	75°	70.0	131.2	236.1	354.2	424.1	555.3	638.4	704.0	725.8
35.0	77.5°	43.7	100.6	196.8	275.5	332.3	450.4	428.5	489.7	542.2
26.2	80°	30.6	74.3	153.0	227.4	231.7	288.6	341.1	393.5	428.5
17.5	82.5°	21.9	61.2	113.7	174.9	153.0	223.0	266.7	306.1	223.0
13.1	85°	17.5	43.7	56.8	104.9	87.4	157.4	135.5	131.2	87.4
8.7	87.5°	13.1	21.9	39.4	48.1	35.0	35.0	43.7	52.5	43.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
12837.7  
12518.5  
12605.9  
12680.2  
12789.6  
13012.6  
13388.6  
13882.7  
14424.9  
14879.6  
*15120.1*  
14844.6  
14569.2  
14311.2  
14040.1  
13725.3  
13384.2  
13016.9  
12614.7  
12094.3  
11403.5  
10787.0  
10174.8  
8609.4  
6908.5  
4884.1  
2518.6  
1499.8  
1167.5  
953.2  
712.7  
550.9  
432.9  
161.8  
87.4  
43.7  
0.0

(END OF REPORT)