

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: P638409

Luminaire Tested: **IFLD-M-SA4E-735-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638409  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-735-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26318.5 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

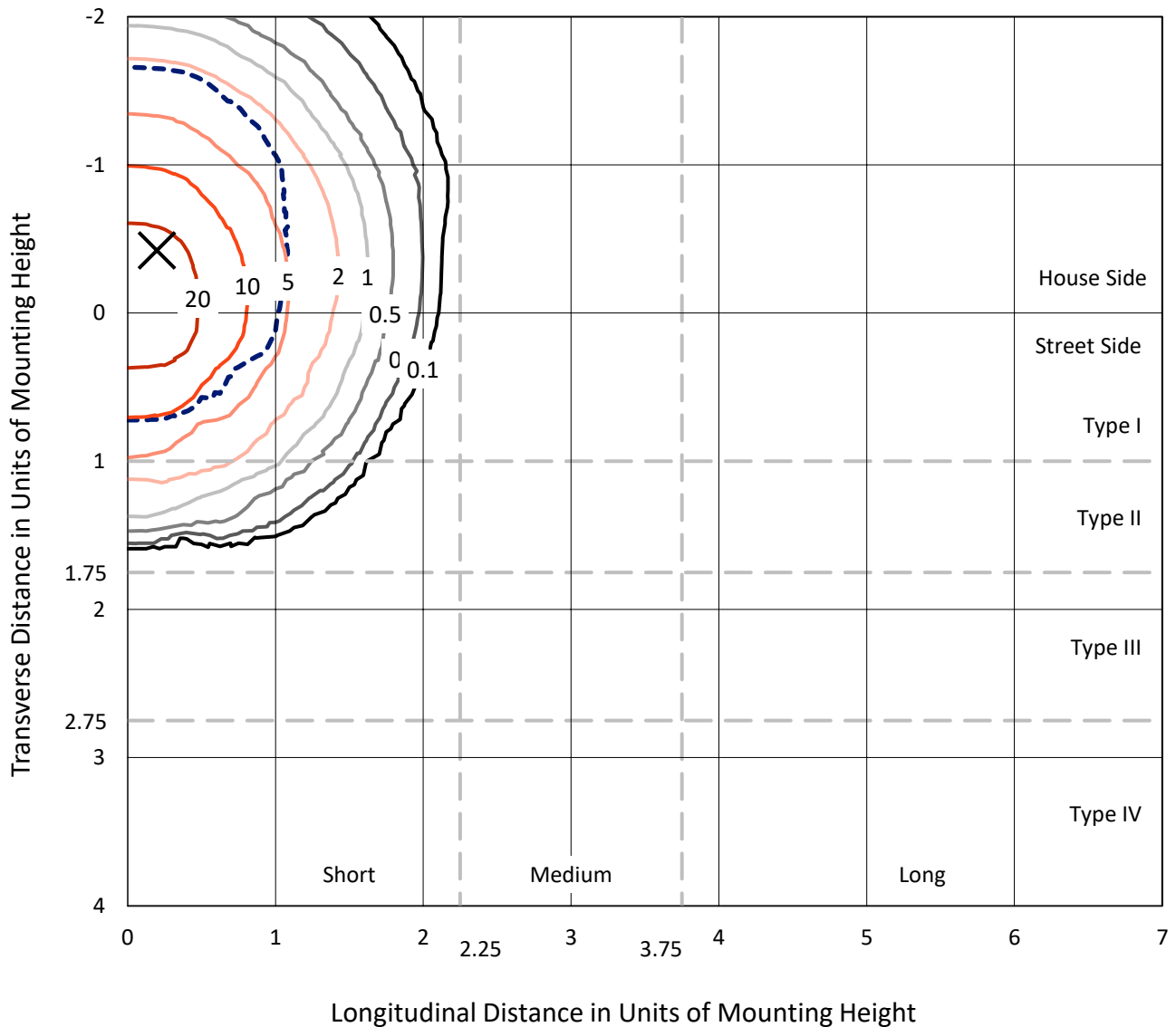
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

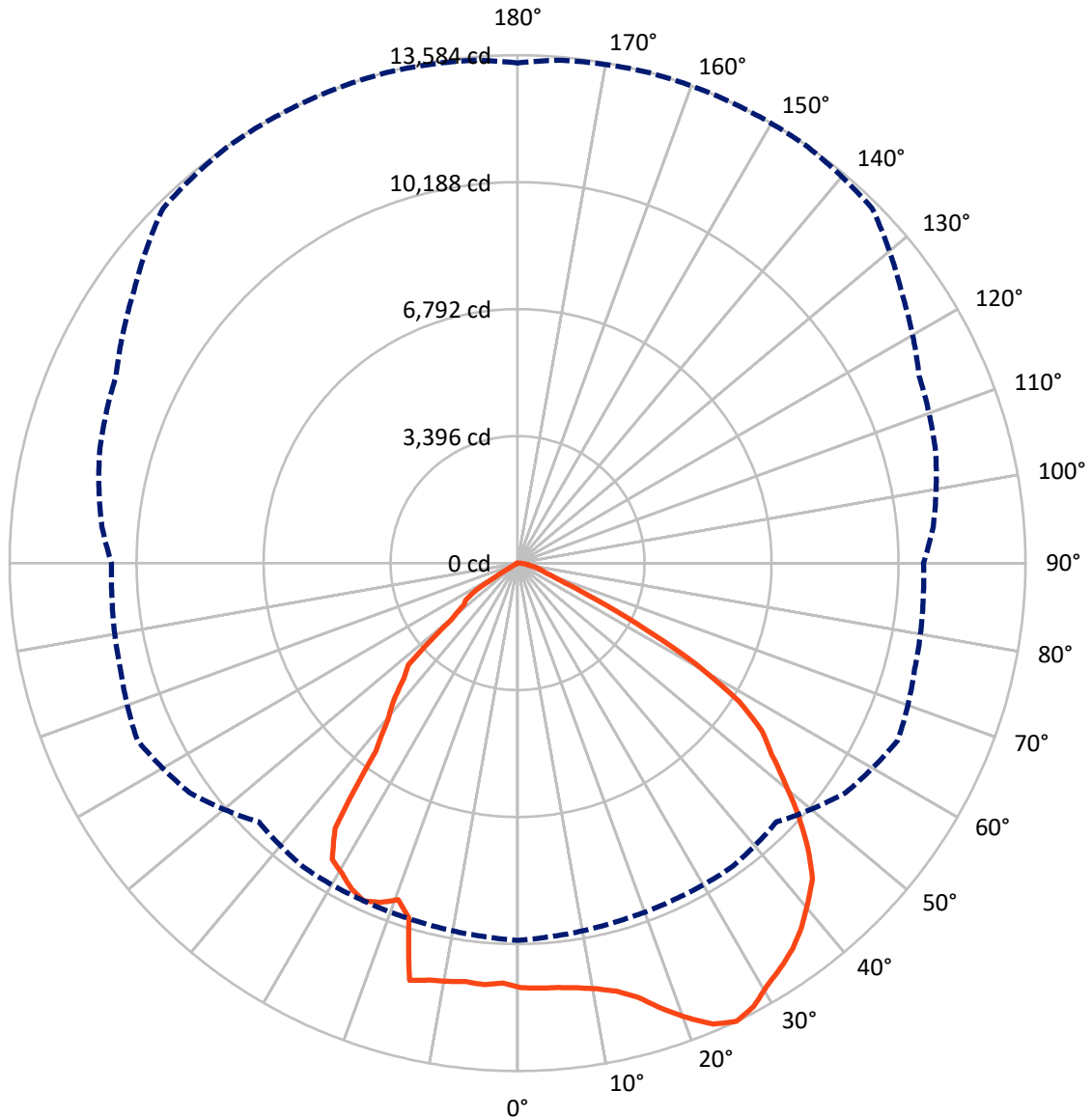
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.4 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	16293.9	0.0	16293.9
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	10024.7	0.0	10024.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	26318.5	0.0	26318.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1089.5	4.1
10°-20°	3326.6	12.6
20°-30°	5259.2	20.0
30°-40°	5940.7	22.6
40°-50°	5563.6	21.1
50°-60°	3835.7	14.6
60°-70°	1030.5	3.9
70°-80°	214.8	0.8
80°-90°	58.1	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°	26318.5	100.0
0°-180°	26318.5	100.0

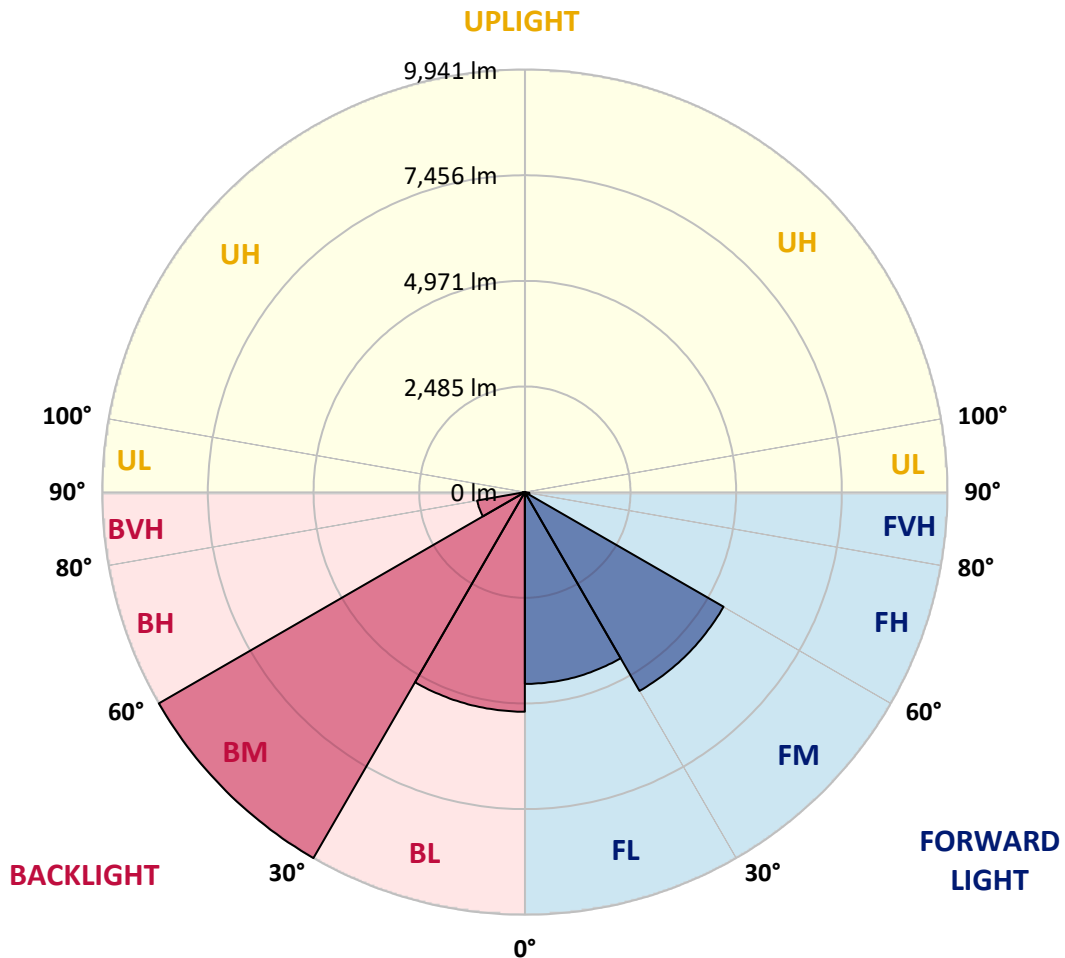


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4510.2	17.1			
FM (30°-60°)	5398.5	20.5			
FH (60°-80°)	108.2	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	5165.1	19.6	B5		
BM (30°-60°)	9941.4	37.8	B5		
BH (60°-80°)	1137.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	50.3	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°	11356.0	11356.0	11356.0	11356.0	11356.0	11356.0	11356.0	11356.0	11356.0	11356.0
2.5°	11406.3	11332.8	11263.2	11239.9	11336.6	11441.1	11375.3	11379.2	11356.0	11398.5
5°	11491.4	11390.8	11344.4	11309.6	11325.0	11433.3	11340.5	11375.3	11336.6	11386.9
7.5°	11460.4	11390.8	11344.4	11278.6	11328.9	11456.5	11367.6	11371.5	11352.1	11398.5
10°	11441.1	11390.8	11332.8	11340.5	11398.5	11506.8	11437.2	11475.9	11448.8	11475.9
12.5°	11487.5	11433.3	11402.4	11402.4	11452.7	11576.4	11541.6	11576.4	11564.8	11588.0
15°	11050.4	11100.7	11394.7	11526.2	11626.7	11750.5	11735.0	11769.8	11777.6	11812.4
17.5°	9321.5	9271.2	9248.0	9924.9	11723.4	12106.3	12094.7	12090.9	12052.2	12025.1
20°	9549.7	9530.4	9503.3	9553.6	9754.7	12292.0	12369.4	11893.6	11754.4	11742.8
22.5°	9913.3	9882.3	9781.8	9785.6	9847.5	10686.8	11986.4	11553.2	11506.8	11479.8
25°	10091.2	10029.3	9948.1	9924.9	9944.2	9789.5	10706.2	11220.6	10992.4	10888.0
27.5°	9777.9	9781.8	9716.0	9777.9	9704.4	9008.2	8617.5	10570.8	10563.1	10516.7
30°	9542.0	9530.4	9453.0	9530.4	9023.7	8246.2	8079.9	9859.1	9777.9	9716.0
32.5°	8818.7	8826.4	9050.7	9352.4	8520.9	7905.9	7403.0	8807.1	9576.8	9542.0
35°	6308.4	6323.9	7120.7	8609.8	7758.9	7229.0	7190.3	7611.9	9259.6	9275.1
37.5°	6072.5	6072.5	6053.2	6296.8	7159.4	6954.4	7031.7	6989.2	8482.2	8520.9
40°	5902.3	5867.5	5840.4	5457.5	4977.9	6761.0	6815.1	6621.7	8018.0	8025.8
42.5°	5697.3	5658.7	5666.4	4958.6	4455.8	6281.4	6130.5	5871.4	7244.5	7252.2
45°	5322.1	5387.9	5434.3	4339.7	4301.0	4486.7	5654.8	5492.3	6722.3	6865.4
47.5°	2707.5	2765.5	4243.0	3991.6	4080.6	3987.7	4776.8	4780.7	5592.9	6068.6
50°	2456.1	2440.6	2444.5	2328.4	3767.3	3225.8	3454.0	4382.3	4479.0	5159.7
52.5°	2289.8	2285.9	2050.0	1821.8	2367.1	2839.0	2506.4	3171.6	3330.2	4370.7
55°	1694.1	1817.9	1616.8	1713.5	1481.4	2274.3	2262.7	2862.2	2916.4	3504.3
57.5°	15.5	19.3	46.4	1303.5	1025.0	1137.1	1562.6	1953.3	2050.0	2730.7
60°	3.9	7.7	19.3	38.7	665.3	700.1	1044.3	1129.4	1272.5	1628.4
62.5°	0.0	0.0	7.7	19.3	34.8	286.2	332.6	363.6	560.8	831.6
65°	0.0	0.0	3.9	11.6	19.3	46.4	81.2	170.2	243.7	301.7
67.5°	0.0	0.0	3.9	7.7	15.5	23.2	46.4	65.8	104.4	177.9
70°	0.0	0.0	3.9	7.7	11.6	19.3	30.9	46.4	61.9	89.0
72.5°	0.0	0.0	3.9	7.7	7.7	23.2	23.2	34.8	46.4	58.0
75°	0.0	0.0	3.9	3.9	7.7	15.5	23.2	27.1	30.9	46.4
77.5°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	30.9	27.1	27.1
80°	0.0	0.0	3.9	11.6	11.6	19.3	23.2	30.9	19.3	19.3
82.5°	0.0	0.0	3.9	15.5	11.6	38.7	38.7	42.5	15.5	15.5
85°	0.0	0.0	11.6	7.7	23.2	38.7	34.8	23.2	19.3	11.6
87.5°	0.0	0.0	3.9	3.9	7.7	11.6	27.1	23.2	7.7	7.7
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°
11356.0	0°	11356.0	11356.0	11356.0	11356.0	11356.0	11356.0	11356.0	11356.0	11356.0
11286.4	2.5°	11441.1	11390.8	11495.2	11483.6	11433.3	11410.1	11383.1	11359.8	11189.7
11294.1	5°	11444.9	11367.6	11495.2	11472.0	11464.3	11425.6	11402.4	11437.2	11282.5
11325.0	7.5°	11444.9	11367.6	11506.8	11514.6	11503.0	11472.0	11468.1	11491.4	11363.7
11379.2	10°	11522.3	11491.4	11607.4	11619.0	11603.5	11595.8	11576.4	11561.0	11425.6
11564.8	12.5°	11684.7	11622.9	11754.4	11789.2	11777.6	11796.9	11750.5	11773.7	11634.5
11754.4	15°	11882.0	11885.9	11986.4	12063.8	12056.1	12117.9	12048.3	12110.2	12009.6
11971.0	17.5°	12183.7	12226.2	12369.4	12485.4	12527.9	12574.3	12527.9	12547.3	12404.2
11731.2	20°	11866.5	12025.1	12713.6	12926.3	13015.3	13057.8	12980.5	13003.7	12860.6
11437.2	22.5°	11580.3	11785.3	12396.4	13061.7	13336.3	13421.4	13394.3	13390.5	13336.3
10857.0	25°	11158.7	11572.6	11847.2	12551.1	13413.7	13568.4	13583.9	13580.0	13498.8
10501.2	27.5°	10640.4	10733.3	11444.9	11874.3	12872.2	13460.1	13436.9	13324.7	13216.4
9762.4	30°	9979.0	10400.6	10721.7	11406.3	12172.1	13127.5	13127.5	13042.4	12930.2
9499.4	32.5°	9642.5	10187.9	10485.7	10733.3	11386.9	12756.1	12910.9	12821.9	12732.9
9294.4	35°	9464.6	9545.8	10242.0	10466.4	11019.5	12040.6	12667.2	12578.2	12512.5
8749.1	37.5°	9074.0	9263.5	9588.4	10187.9	10358.1	11456.5	12342.3	12295.9	12218.5
8041.2	40°	8203.7	8710.4	9209.3	9777.9	9955.8	10706.2	11947.8	11967.1	11862.7
7287.0	42.5°	7689.3	8033.5	8814.8	9197.7	9677.3	10222.7	11564.8	11595.8	11522.3
6904.1	45°	7085.9	7468.8	8018.0	8714.2	9367.9	9557.4	10888.0	11212.9	11151.0
6142.1	47.5°	6532.8	6842.2	7515.2	8219.2	8942.4	8915.4	10110.5	10721.7	10636.6
5558.1	50°	5747.6	6289.1	6606.3	7252.2	8331.3	8404.8	9282.8	10145.3	10075.7
4722.6	52.5°	4846.4	5527.1	6134.4	6726.2	7712.5	7886.5	8513.1	9557.4	9511.0
3608.7	55°	4235.3	4730.4	5415.0	5890.7	6962.1	7426.3	7936.8	8996.6	8973.4
2966.6	57.5°	3013.0	3968.4	4533.1	5198.4	5763.1	6602.4	6981.5	7855.6	7639.0
1643.8	60°	2042.2	2490.9	3179.4	3894.9	4274.0	5113.3	5465.3	6165.3	6107.3
982.4	62.5°	1079.1	1493.0	1984.2	2343.9	2618.5	3434.6	3581.6	4335.8	4316.5
394.5	65°	475.7	630.5	1075.3	1260.9	1543.3	1922.3	2050.0	2320.7	2255.0
193.4	67.5°	247.5	375.2	607.3	746.5	939.9	1083.0	1187.4	1272.5	1326.7
127.6	70°	150.8	274.6	375.2	518.3	645.9	762.0	843.2	959.2	1028.8
65.8	72.5°	112.2	174.1	259.1	398.4	468.0	603.4	684.6	769.7	831.6
54.1	75°	61.9	116.0	208.9	313.3	375.2	491.2	564.7	622.7	642.1
30.9	77.5°	38.7	89.0	174.1	243.7	294.0	398.4	379.0	433.2	479.6
23.2	80°	27.1	65.8	135.4	201.1	205.0	255.3	301.7	348.1	379.0
15.5	82.5°	19.3	54.1	100.6	154.7	135.4	197.3	235.9	270.7	197.3
11.6	85°	15.5	38.7	50.3	92.8	77.4	139.2	119.9	116.0	77.4
7.7	87.5°	11.6	19.3	34.8	42.5	30.9	30.9	38.7	46.4	38.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
11356.0  
11073.6  
11151.0  
11216.7  
11313.4  
11510.7  
11843.3  
12280.4  
12760.0  
13162.3  
*13375.0*  
13131.3  
12887.6  
12659.4  
12419.6  
12141.2  
11839.5  
11514.6  
11158.7  
10698.4  
10087.3  
9542.0  
9000.5  
7615.8  
6111.2  
4320.4  
2227.9  
1326.7  
1032.7  
843.2  
630.5  
487.3  
382.9  
143.1  
77.4  
38.7  
0.0

(END OF REPORT)