

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: P638467

Luminaire Tested: **IFLD-M-SA4E-750-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638467  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-750-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27295.2 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

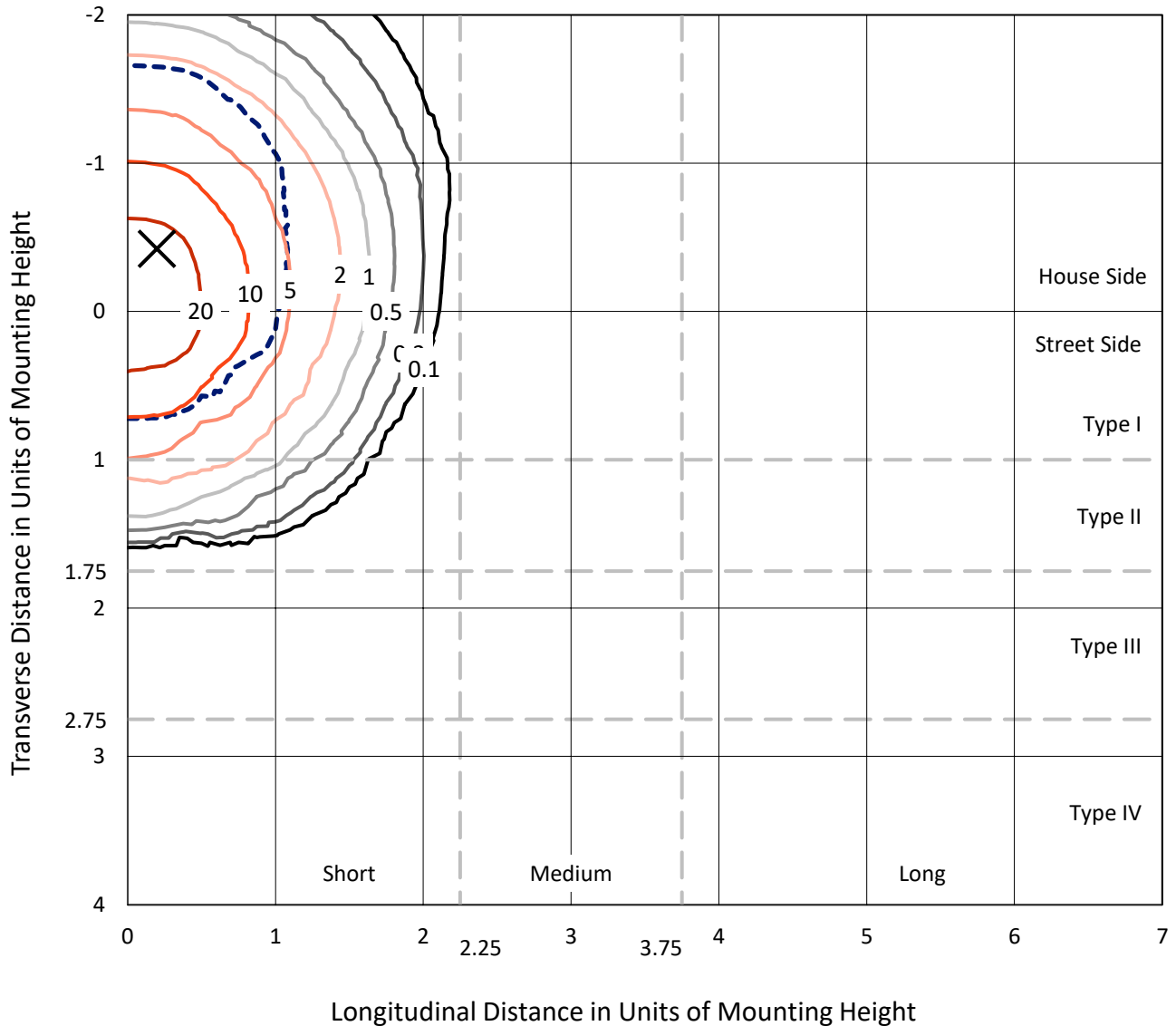
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

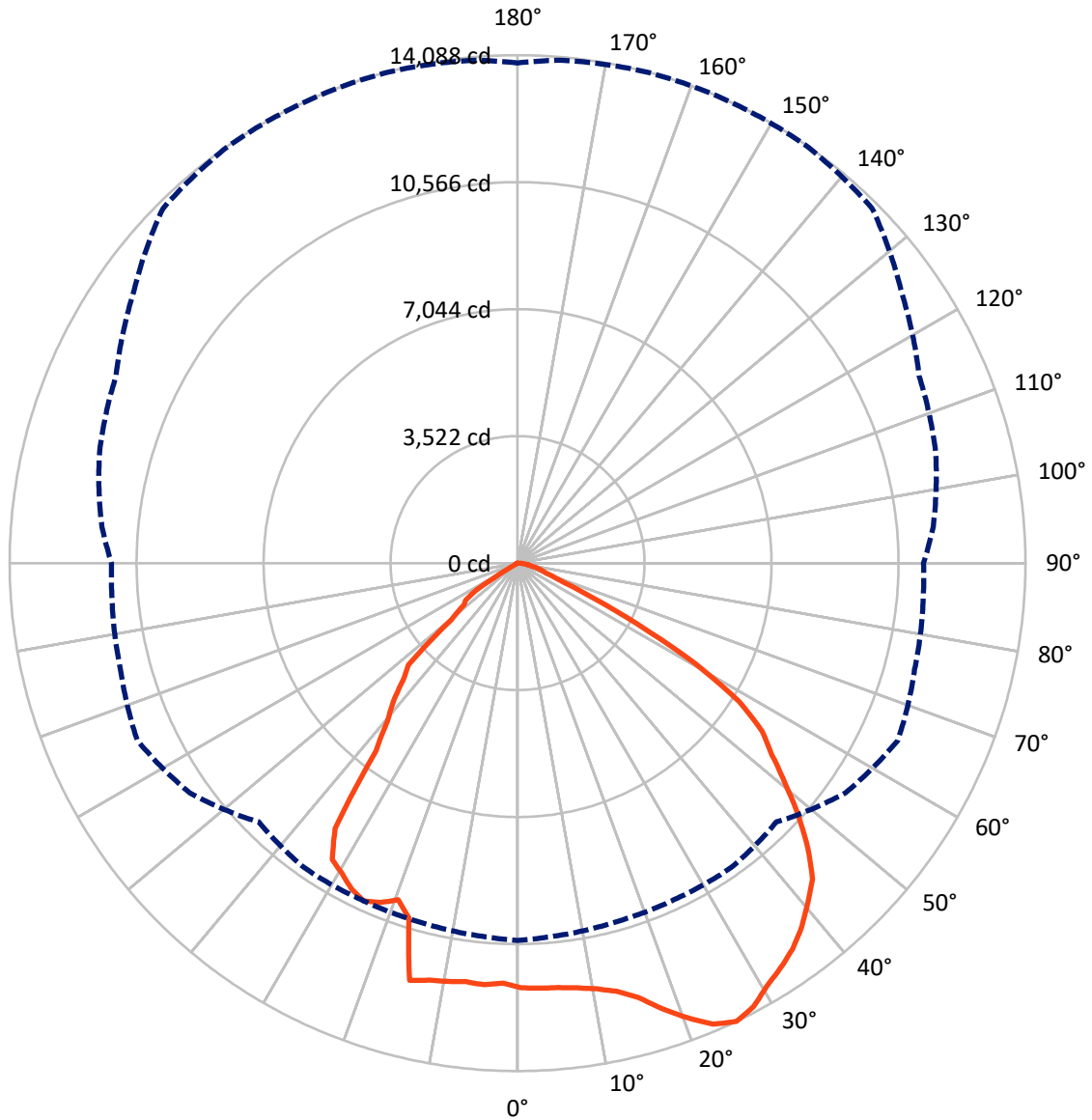
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.4 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	16898.5	0.0	16898.5
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	10396.6	0.0	10396.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	27295.2	0.0	27295.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1129.9	4.1
10°-20°	3450.0	12.6
20°-30°	5454.3	20.0
30°-40°	6161.1	22.6
40°-50°	5770.0	21.1
50°-60°	3978.0	14.6
60°-70°	1068.8	3.9
70°-80°	222.7	0.8
80°-90°	60.2	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°	27295.2	100.0
0°-180°	27295.2	100.0

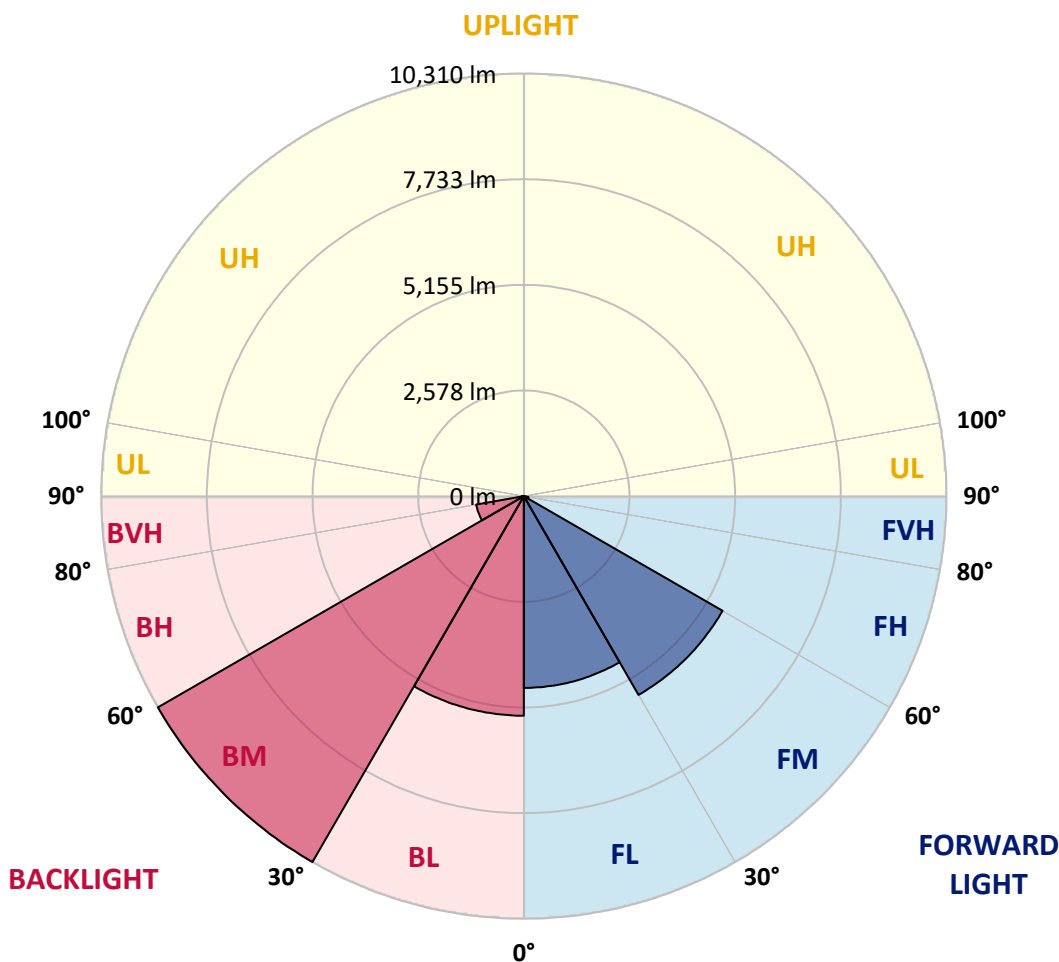


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4677.5	17.1			
FM (30°-60°)	5598.8	20.5			
FH (60°-80°)	112.2	0.4			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	5356.7	19.6	B5		
BM (30°-60°)	10310.3	37.8	B5		
BH (60°-80°)	1179.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	52.2	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°	11777.4	11777.4	11777.4	11777.4	11777.4	11777.4	11777.4	11777.4	11777.4	11777.4
2.5°	11829.5	11753.3	11681.1	11657.0	11757.3	11865.6	11797.4	11801.4	11777.4	11821.5
5°	11917.8	11813.5	11765.3	11729.2	11745.3	11857.6	11761.3	11797.4	11757.3	11809.5
7.5°	11885.7	11813.5	11765.3	11697.2	11749.3	11881.7	11789.4	11793.4	11773.4	11821.5
10°	11865.6	11813.5	11753.3	11761.3	11821.5	11933.8	11861.6	11901.7	11873.7	11901.7
12.5°	11913.8	11857.6	11825.5	11825.5	11877.7	12006.0	11969.9	12006.0	11994.0	12018.1
15°	11460.5	11512.6	11817.5	11953.9	12058.2	12186.5	12170.5	12206.6	12214.6	12250.7
17.5°	9667.4	9615.3	9591.2	10293.2	12158.5	12555.6	12543.6	12539.5	12499.4	12471.3
20°	9904.1	9884.0	9855.9	9908.1	10116.7	12748.1	12828.4	12335.0	12190.6	12178.5
22.5°	10281.1	10249.0	10144.8	10148.8	10212.9	11083.4	12431.2	11982.0	11933.8	11905.7
25°	10465.7	10401.5	10317.2	10293.2	10313.2	10152.8	11103.5	11637.0	11400.3	11292.0
27.5°	10140.7	10144.8	10076.6	10140.7	10064.5	9342.5	8937.3	10963.1	10955.1	10906.9
30°	9896.0	9884.0	9803.8	9884.0	9358.5	8552.2	8379.8	10225.0	10140.7	10076.6
32.5°	9145.9	9153.9	9386.6	9699.5	8837.0	8199.2	7677.8	9133.9	9932.2	9896.0
35°	6542.5	6558.6	7384.9	8929.3	8046.8	7497.2	7457.1	7894.4	9603.2	9619.3
37.5°	6297.9	6297.9	6277.8	6530.5	7425.0	7212.4	7292.7	7248.5	8796.9	8837.0
40°	6121.4	6085.2	6057.2	5660.0	5162.6	7011.9	7068.0	6867.5	8315.6	8323.6
42.5°	5908.7	5868.6	5876.7	5142.6	4621.1	6514.5	6358.0	6089.3	7513.3	7521.3
45°	5519.6	5587.8	5636.0	4500.8	4460.6	4653.2	5864.6	5696.1	6971.8	7120.2
47.5°	2808.0	2868.1	4400.5	4139.7	4232.0	4135.7	4954.0	4958.1	5800.4	6293.8
50°	2547.2	2531.2	2535.2	2414.8	3907.1	3345.5	3582.2	4544.9	4645.2	5351.2
52.5°	2374.7	2370.7	2126.0	1889.4	2455.0	2944.3	2599.4	3289.3	3453.8	4532.8
55°	1757.0	1885.3	1676.8	1777.0	1536.4	2358.7	2346.7	2968.4	3024.6	3634.3
57.5°	16.0	20.1	48.1	1351.8	1063.0	1179.3	1620.6	2025.7	2126.0	2832.0
60°	4.0	8.0	20.1	40.1	690.0	726.1	1083.1	1171.3	1319.7	1688.8
62.5°	0.0	0.0	8.0	20.1	36.1	296.8	345.0	377.1	581.6	862.4
65°	0.0	0.0	4.0	12.0	20.1	48.1	84.2	176.5	252.7	312.9
67.5°	0.0	0.0	4.0	8.0	16.0	24.1	48.1	68.2	108.3	184.5
70°	0.0	0.0	4.0	8.0	12.0	20.1	32.1	48.1	64.2	92.3
72.5°	0.0	0.0	4.0	8.0	8.0	24.1	24.1	36.1	48.1	60.2
75°	0.0	0.0	4.0	4.0	8.0	16.0	24.1	28.1	32.1	48.1
77.5°	0.0	0.0	4.0	8.0	12.0	16.0	20.1	32.1	28.1	28.1
80°	0.0	0.0	4.0	12.0	12.0	20.1	24.1	32.1	20.1	20.1
82.5°	0.0	0.0	4.0	16.0	12.0	40.1	40.1	44.1	16.0	16.0
85°	0.0	0.0	12.0	8.0	24.1	40.1	36.1	24.1	20.1	12.0
87.5°	0.0	0.0	4.0	4.0	8.0	12.0	28.1	24.1	8.0	8.0
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°
11777.4	0°	11777.4	11777.4	11777.4	11777.4	11777.4	11777.4	11777.4	11777.4	11777.4
11705.2	2.5°	11865.6	11813.5	11921.8	11909.8	11857.6	11833.5	11805.5	11781.4	11604.9
11713.2	5°	11869.6	11789.4	11921.8	11897.7	11889.7	11849.6	11825.5	11861.6	11701.2
11745.3	7.5°	11869.6	11789.4	11933.8	11941.8	11929.8	11897.7	11893.7	11917.8	11785.4
11801.4	10°	11949.9	11917.8	12038.1	12050.2	12034.1	12026.1	12006.0	11990.0	11849.6
11994.0	12.5°	12118.3	12054.2	12190.6	12226.7	12214.6	12234.7	12186.5	12210.6	12066.2
12190.6	15°	12322.9	12326.9	12431.2	12511.5	12503.4	12567.6	12495.4	12559.6	12455.3
12415.2	17.5°	12635.8	12679.9	12828.4	12948.7	12992.8	13041.0	12992.8	13012.9	12864.5
12166.5	20°	12306.9	12471.3	13185.4	13406.0	13498.3	13542.4	13462.2	13486.2	13337.8
11861.6	22.5°	12010.0	12222.6	12856.4	13546.4	13831.2	13919.5	13891.4	13887.4	13831.2
11259.9	25°	11572.8	12002.0	12286.8	13016.9	13911.4	14071.9	14087.9	14083.9	13999.7
10890.9	27.5°	11035.3	11131.6	11869.6	12314.9	13349.8	13959.6	13935.5	13819.2	13706.8
10124.7	30°	10349.3	10786.6	11119.5	11829.5	12623.8	13614.6	13614.6	13526.3	13410.0
9851.9	32.5°	10000.3	10565.9	10874.8	11131.6	11809.5	13229.5	13390.0	13297.7	13205.4
9639.3	35°	9815.8	9900.1	10622.1	10854.8	11428.4	12487.4	13137.2	13045.0	12976.8
9073.7	37.5°	9410.7	9607.2	9944.2	10565.9	10742.4	11881.7	12800.3	12752.1	12671.9
8339.6	40°	8508.1	9033.6	9551.1	10140.7	10325.3	11103.5	12391.1	12411.2	12302.9
7557.4	42.5°	7974.6	8331.6	9141.9	9539.0	10036.4	10602.0	11994.0	12026.1	11949.9
7160.3	45°	7348.8	7746.0	8315.6	9037.6	9715.5	9912.1	11292.0	11629.0	11564.8
6370.1	47.5°	6775.2	7096.1	7794.1	8524.2	9274.3	9246.2	10485.7	11119.5	11031.3
5764.3	50°	5960.9	6522.5	6851.4	7521.3	8640.5	8716.7	9627.3	10521.8	10449.6
4897.9	52.5°	5026.2	5732.2	6362.0	6975.8	7998.7	8179.2	8829.0	9912.1	9864.0
3742.6	55°	4392.4	4905.9	5615.9	6109.3	7220.5	7701.8	8231.3	9330.4	9306.4
3076.7	57.5°	3124.9	4115.7	4701.3	5391.3	5976.9	6847.4	7240.5	8147.1	7922.5
1704.8	60°	2118.0	2583.3	3297.3	4039.4	4432.6	5303.0	5668.1	6394.1	6334.0
1018.9	62.5°	1119.2	1548.4	2057.8	2430.9	2715.7	3562.1	3714.5	4496.7	4476.7
409.2	65°	493.4	653.9	1115.2	1307.7	1600.5	1993.7	2126.0	2406.8	2338.6
200.6	67.5°	256.7	389.1	629.8	774.2	974.8	1123.2	1231.5	1319.7	1375.9
132.4	70°	156.4	284.8	389.1	537.5	669.9	790.2	874.5	994.8	1067.0
68.2	72.5°	116.3	180.5	268.8	413.2	485.4	625.8	710.0	798.3	862.4
56.2	75°	64.2	120.3	216.6	324.9	389.1	509.4	585.7	645.8	665.9
32.1	77.5°	40.1	92.3	180.5	252.7	304.9	413.2	393.1	449.3	497.4
24.1	80°	28.1	68.2	140.4	208.6	212.6	264.8	312.9	361.0	393.1
16.0	82.5°	20.1	56.2	104.3	160.5	140.4	204.6	244.7	280.8	204.6
12.0	85°	16.0	40.1	52.1	96.3	80.2	144.4	124.4	120.3	80.2
8.0	87.5°	12.0	20.1	36.1	44.1	32.1	32.1	40.1	48.1	40.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
11777.4  
11484.6  
11564.8  
11633.0  
11733.3  
11937.8  
12282.8  
12736.1  
13233.5  
13650.7  
*13871.3*  
13618.6  
13365.9  
13129.2  
12880.5  
12591.7  
12278.8  
11941.8  
11572.8  
11095.4  
10461.7  
9896.0  
9334.5  
7898.4  
6338.0  
4480.7  
2310.5  
1375.9  
1071.0  
874.5  
653.9  
505.4  
397.1  
148.4  
80.2  
40.1  
0.0

(END OF REPORT)