

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: P636927

Luminaire Tested: **IFLD-M-SA4B-935-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636927  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-935-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11177.4 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

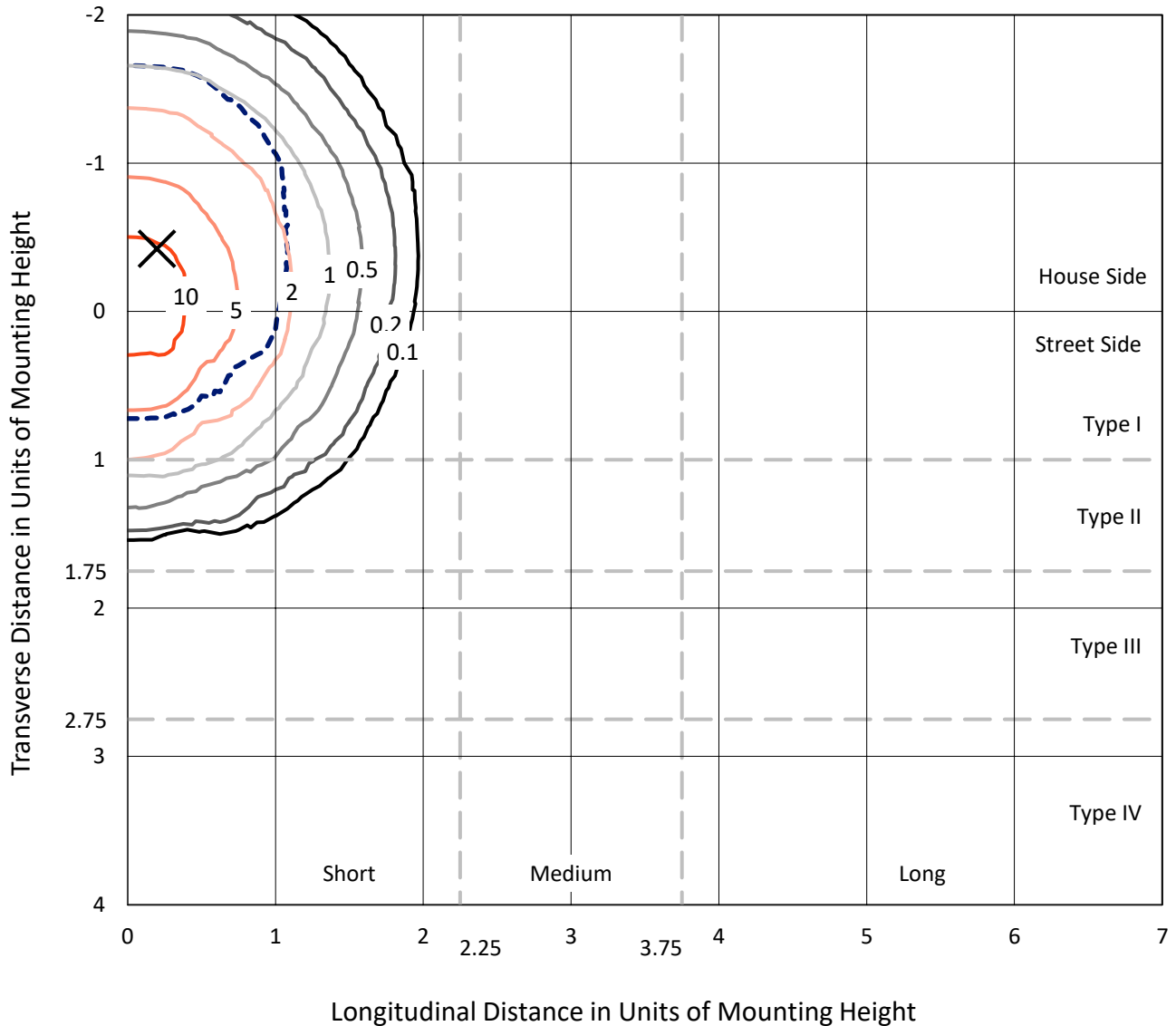
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

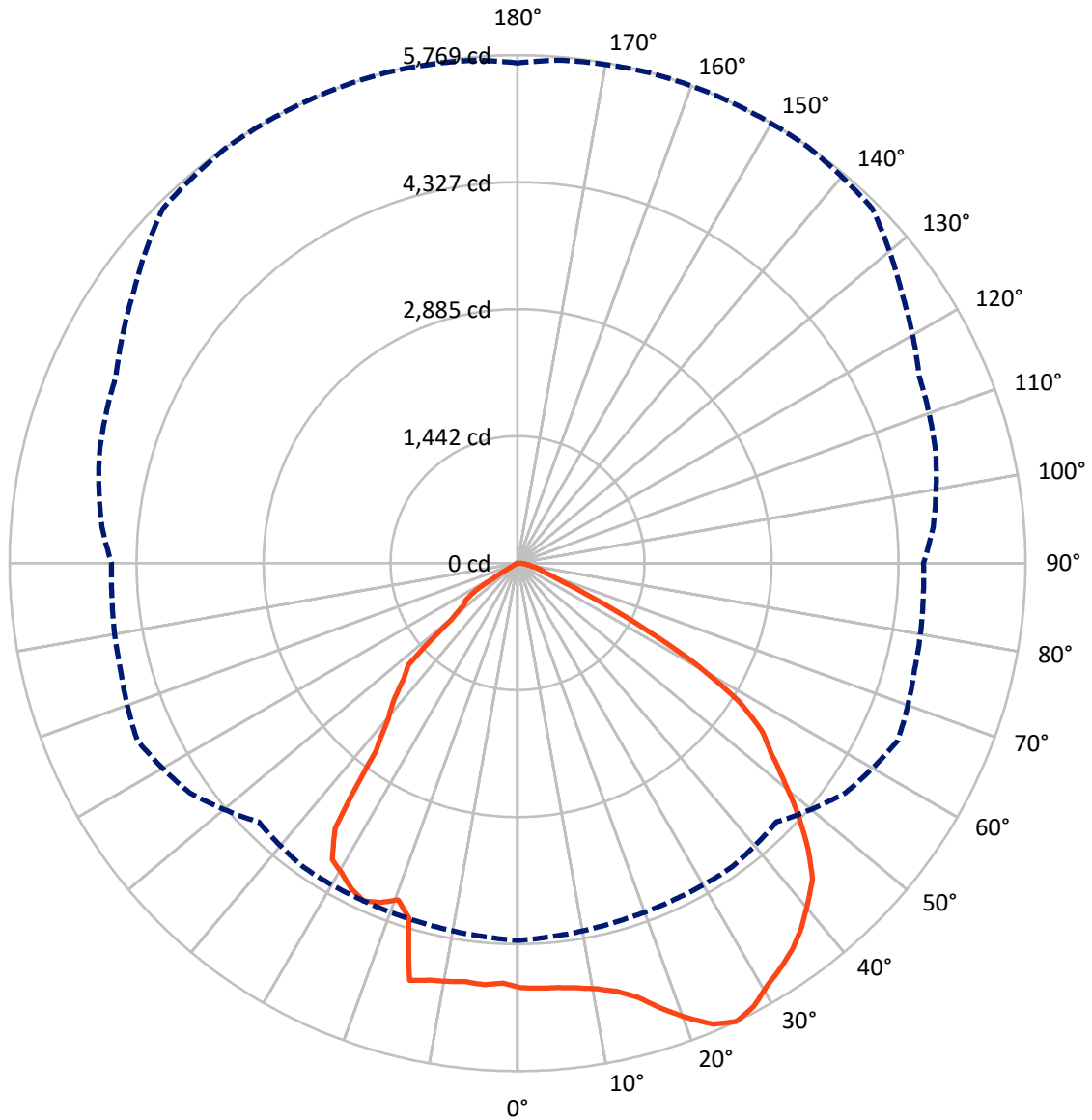
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.1 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	6920.0	0.0	6920.0
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	4257.5	0.0	4257.5
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	11177.4	0.0	11177.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.7	4.1
10°-20°	1412.8	12.6
20°-30°	2233.6	20.0
30°-40°	2523.0	22.6
40°-50°	2362.8	21.1
50°-60°	1629.0	14.6
60°-70°	437.7	3.9
70°-80°	91.2	0.8
80°-90°	24.7	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°	11177.4	100.0
0°-180°	11177.4	100.0



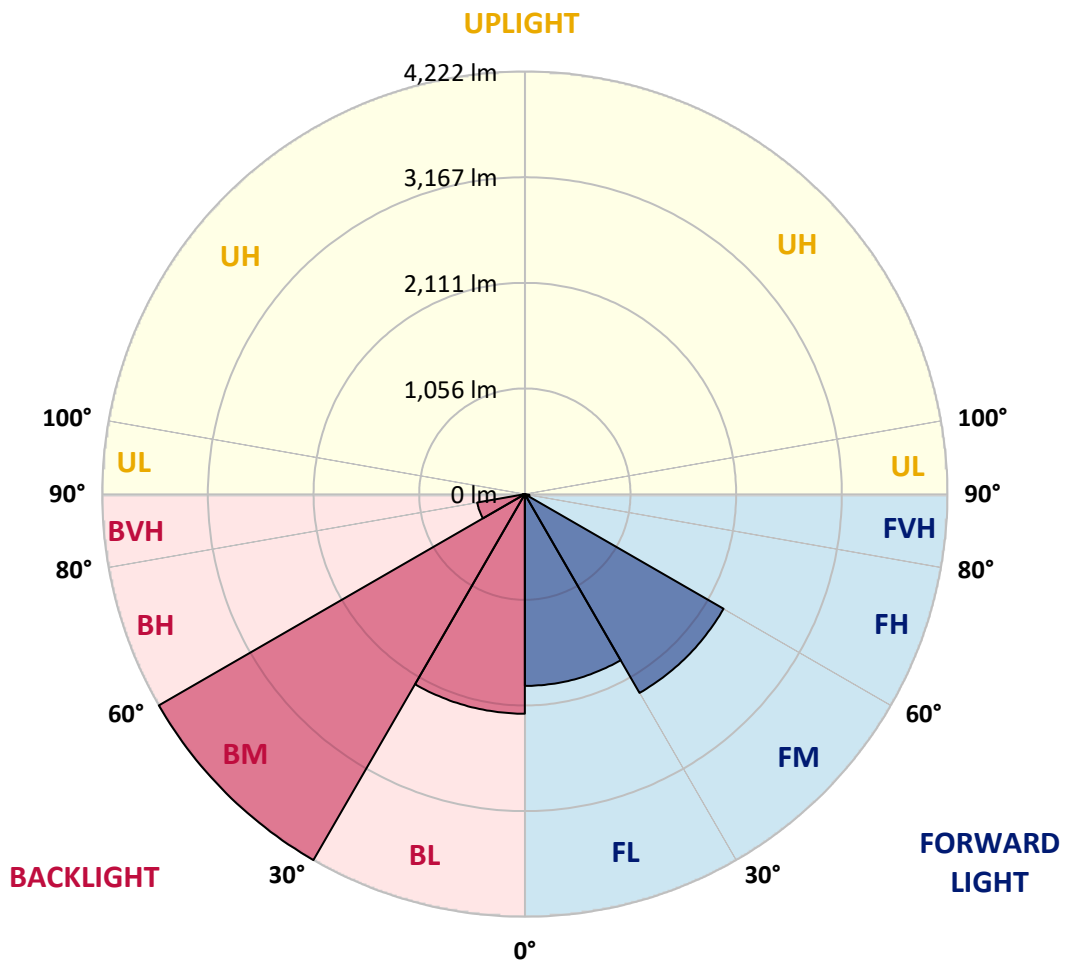
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.5	17.1			
FM (30°-60°)	2292.7	20.5			
FH (60°-80°)	45.9	0.4			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	2193.6	19.6	B3/2500		
BM (30°-60°)	4222.1	37.8	B3/5000		
BH (60°-80°)	482.9	4.3	B1/500		G1/500
BVH (80°-90°)	21.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4822.9	4822.9	4822.9	4822.9	4822.9	4822.9	4822.9	4822.9	4822.9	4822.9
2.5°	4844.2	4813.0	4783.4	4773.6	4814.7	4859.0	4831.1	4832.7	4822.9	4840.9
5°	4880.4	4837.7	4817.9	4803.2	4809.7	4855.7	4816.3	4831.1	4814.7	4836.0
7.5°	4867.2	4837.7	4817.9	4790.0	4811.4	4865.6	4827.8	4829.4	4821.2	4840.9
10°	4859.0	4837.7	4813.0	4816.3	4840.9	4886.9	4857.4	4873.8	4862.3	4873.8
12.5°	4878.7	4855.7	4842.6	4842.6	4863.9	4916.5	4901.7	4916.5	4911.6	4921.4
15°	4693.1	4714.5	4839.3	4895.1	4937.9	4990.4	4983.9	4998.6	5001.9	5016.7
17.5°	3958.8	3937.5	3927.6	4215.1	4978.9	5141.5	5136.6	5135.0	5118.5	5107.1
20°	4055.7	4047.5	4036.0	4057.4	4142.8	5220.4	5253.2	5051.2	4992.1	4987.1
22.5°	4210.2	4197.0	4154.3	4155.9	4182.2	4538.7	5090.6	4906.6	4886.9	4875.4
25°	4285.7	4259.4	4224.9	4215.1	4223.3	4157.6	4546.9	4765.4	4668.5	4624.1
27.5°	4152.7	4154.3	4126.4	4152.7	4121.5	3825.8	3659.9	4489.4	4486.1	4466.4
30°	4052.5	4047.5	4014.7	4047.5	3832.3	3502.2	3431.5	4187.2	4152.7	4126.4
32.5°	3745.3	3748.6	3843.8	3972.0	3618.8	3357.6	3144.1	3740.4	4067.2	4052.5
35°	2679.2	2685.8	3024.1	3656.6	3295.2	3070.1	3053.7	3232.8	3932.5	3939.1
37.5°	2579.0	2579.0	2570.8	2674.3	3040.6	2953.5	2986.4	2968.3	3602.4	3618.8
40°	2506.7	2491.9	2480.4	2317.8	2114.1	2871.4	2894.4	2812.2	3405.2	3408.5
42.5°	2419.6	2403.2	2406.5	2105.9	1892.4	2667.7	2603.6	2493.6	3076.7	3080.0
45°	2260.3	2288.2	2307.9	1843.1	1826.6	1905.5	2401.6	2332.6	2855.0	2915.7
47.5°	1149.9	1174.5	1802.0	1695.2	1733.0	1693.6	2028.7	2030.3	2375.3	2577.3
50°	1043.1	1036.5	1038.2	988.9	1600.0	1370.0	1466.9	1861.1	1902.2	2191.3
52.5°	972.5	970.8	870.6	773.7	1005.3	1205.7	1064.4	1347.0	1414.3	1856.2
55°	719.5	772.1	686.6	727.7	629.1	965.9	961.0	1215.6	1238.6	1488.3
57.5°	6.6	8.2	19.7	553.6	435.3	482.9	663.6	829.5	870.6	1159.7
60°	1.6	3.3	8.2	16.4	282.5	297.3	443.5	479.7	540.4	691.6
62.5°	0.0	0.0	3.3	8.2	14.8	121.6	141.3	154.4	238.2	353.2
65°	0.0	0.0	1.6	4.9	8.2	19.7	34.5	72.3	103.5	128.1
67.5°	0.0	0.0	1.6	3.3	6.6	9.9	19.7	27.9	44.4	75.6
70°	0.0	0.0	1.6	3.3	4.9	8.2	13.1	19.7	26.3	37.8
72.5°	0.0	0.0	1.6	3.3	3.3	9.9	9.9	14.8	19.7	24.6
75°	0.0	0.0	1.6	1.6	3.3	6.6	9.9	11.5	13.1	19.7
77.5°	0.0	0.0	1.6	3.3	4.9	6.6	8.2	13.1	11.5	11.5
80°	0.0	0.0	1.6	4.9	4.9	8.2	9.9	13.1	8.2	8.2
82.5°	0.0	0.0	1.6	6.6	4.9	16.4	16.4	18.1	6.6	6.6
85°	0.0	0.0	4.9	3.3	9.9	16.4	14.8	9.9	8.2	4.9
87.5°	0.0	0.0	1.6	1.6	3.3	4.9	11.5	9.9	3.3	3.3
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°
4822.9	0°	4822.9	4822.9	4822.9	4822.9	4822.9	4822.9	4822.9	4822.9	4822.9
4793.3	2.5°	4859.0	4837.7	4882.0	4877.1	4855.7	4845.9	4834.4	4824.5	4752.2
4796.6	5°	4860.7	4827.8	4882.0	4872.1	4868.9	4852.4	4842.6	4857.4	4791.7
4809.7	7.5°	4860.7	4827.8	4886.9	4890.2	4885.3	4872.1	4870.5	4880.4	4826.2
4832.7	10°	4893.5	4880.4	4929.6	4934.6	4928.0	4924.7	4916.5	4909.9	4852.4
4911.6	12.5°	4962.5	4936.2	4992.1	5006.8	5001.9	5010.1	4990.4	5000.3	4941.1
4992.1	15°	5046.3	5047.9	5090.6	5123.5	5120.2	5146.5	5116.9	5143.2	5100.5
5084.1	17.5°	5174.4	5192.5	5253.2	5302.5	5320.6	5340.3	5320.6	5328.8	5268.0
4982.2	20°	5039.7	5107.1	5399.4	5489.8	5527.6	5545.6	5512.8	5522.6	5461.9
4857.4	22.5°	4918.1	5005.2	5264.7	5547.3	5663.9	5700.1	5688.6	5686.9	5663.9
4611.0	25°	4739.1	4914.9	5031.5	5330.5	5696.8	5762.5	5769.0	5767.4	5732.9
4459.8	27.5°	4519.0	4558.4	4860.7	5043.0	5466.8	5716.5	5706.6	5659.0	5613.0
4146.1	30°	4238.1	4417.1	4553.5	4844.2	5169.5	5575.2	5575.2	5539.1	5491.4
4034.4	32.5°	4095.2	4326.8	4453.3	4558.4	4836.0	5417.5	5483.2	5445.4	5407.7
3947.3	35°	4019.6	4054.1	4349.8	4445.1	4680.0	5113.6	5379.7	5342.0	5314.0
3715.7	37.5°	3853.7	3934.2	4072.2	4326.8	4399.1	4865.6	5241.7	5222.0	5189.2
3415.1	40°	3484.1	3699.3	3911.2	4152.7	4228.2	4546.9	5074.2	5082.4	5038.1
3094.8	42.5°	3265.6	3411.8	3743.6	3906.3	4110.0	4341.6	4911.6	4924.7	4893.5
2932.2	45°	3009.4	3172.0	3405.2	3700.9	3978.5	4059.0	4624.1	4762.1	4735.8
2608.6	47.5°	2774.5	2905.9	3191.7	3490.7	3797.8	3786.3	4293.9	4553.5	4517.3
2360.5	50°	2441.0	2671.0	2805.7	3080.0	3538.3	3569.5	3942.4	4308.7	4279.1
2005.7	52.5°	2058.3	2347.4	2605.3	2856.6	3275.5	3349.4	3615.5	4059.0	4039.3
1532.6	55°	1798.7	2009.0	2299.7	2501.8	2956.8	3153.9	3370.8	3820.8	3811.0
1259.9	57.5°	1279.6	1685.4	1925.2	2207.7	2447.6	2804.0	2965.0	3336.3	3244.3
698.1	60°	867.3	1057.9	1350.3	1654.2	1815.1	2171.6	2321.1	2618.4	2593.8
417.2	62.5°	458.3	634.1	842.7	995.5	1112.1	1458.7	1521.1	1841.4	1833.2
167.6	65°	202.0	267.8	456.7	535.5	655.4	816.4	870.6	985.6	957.7
82.1	67.5°	105.1	159.3	257.9	317.0	399.2	459.9	504.3	540.4	563.4
54.2	70°	64.1	116.6	159.3	220.1	274.3	323.6	358.1	407.4	436.9
27.9	72.5°	47.6	73.9	110.1	169.2	198.8	256.3	290.8	326.9	353.2
23.0	75°	26.3	49.3	88.7	133.1	159.3	208.6	239.8	264.5	272.7
13.1	77.5°	16.4	37.8	73.9	103.5	124.8	169.2	161.0	184.0	203.7
9.9	80°	11.5	27.9	57.5	85.4	87.1	108.4	128.1	147.8	161.0
6.6	82.5°	8.2	23.0	42.7	65.7	57.5	83.8	100.2	115.0	83.8
4.9	85°	6.6	16.4	21.4	39.4	32.9	59.1	50.9	49.3	32.9
3.3	87.5°	4.9	8.2	14.8	18.1	13.1	13.1	16.4	19.7	16.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
4822.9  
4703.0  
4735.8  
4763.7  
4804.8  
4888.6  
5029.8  
5215.5  
5419.2  
5590.0  
*5680.3*  
5576.9  
5473.4  
5376.4  
5274.6  
5156.3  
5028.2  
4890.2  
4739.1  
4543.6  
4284.1  
4052.5  
3822.5  
3234.4  
2595.4  
1834.9  
946.2  
563.4  
438.6  
358.1  
267.8  
207.0  
162.6  
60.8  
32.9  
16.4  
0.0

(END OF REPORT)