

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: P638319

Luminaire Tested: **IFLD-M-SA4B-722-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638319  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-722-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12399.6 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G2

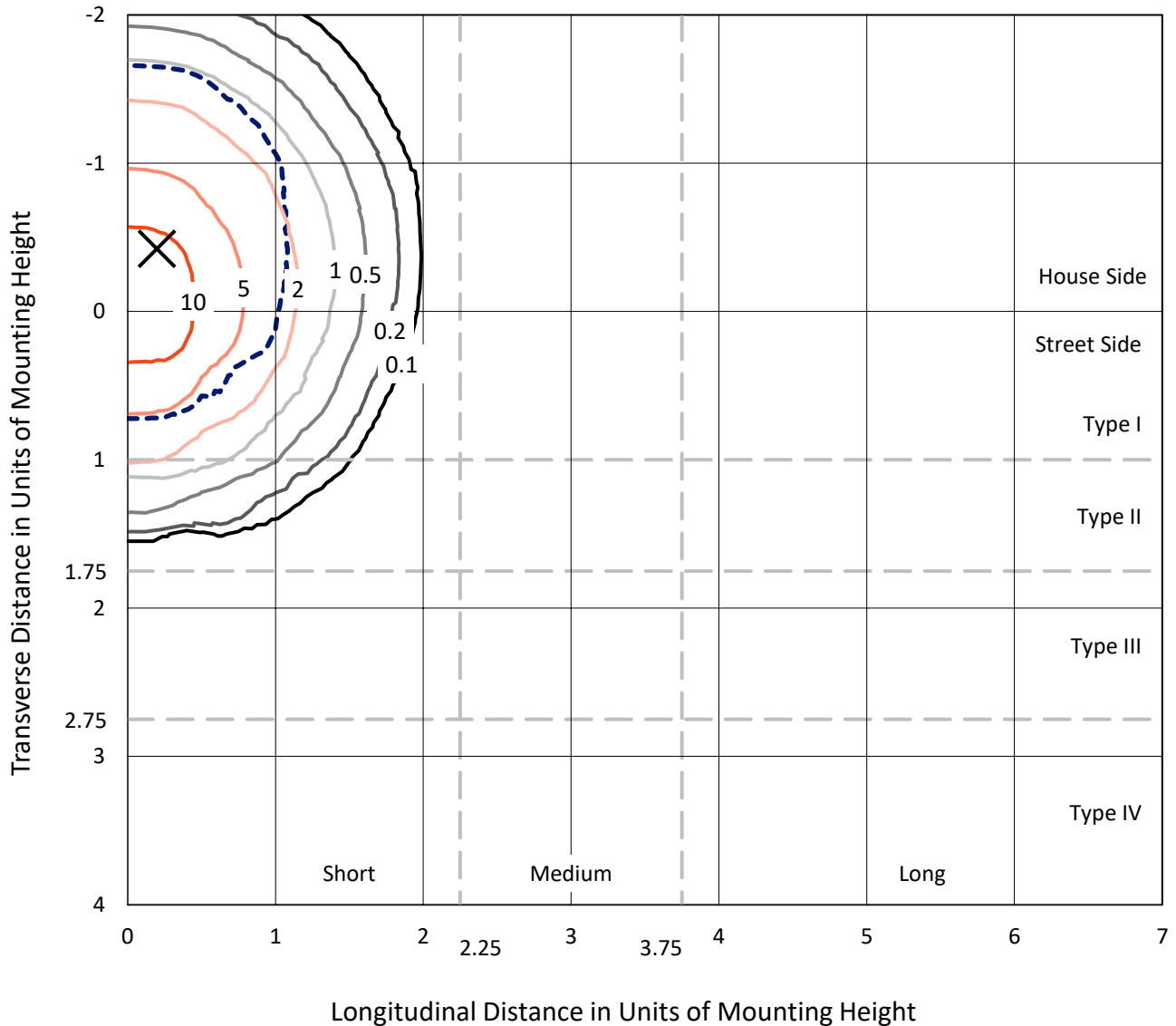
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

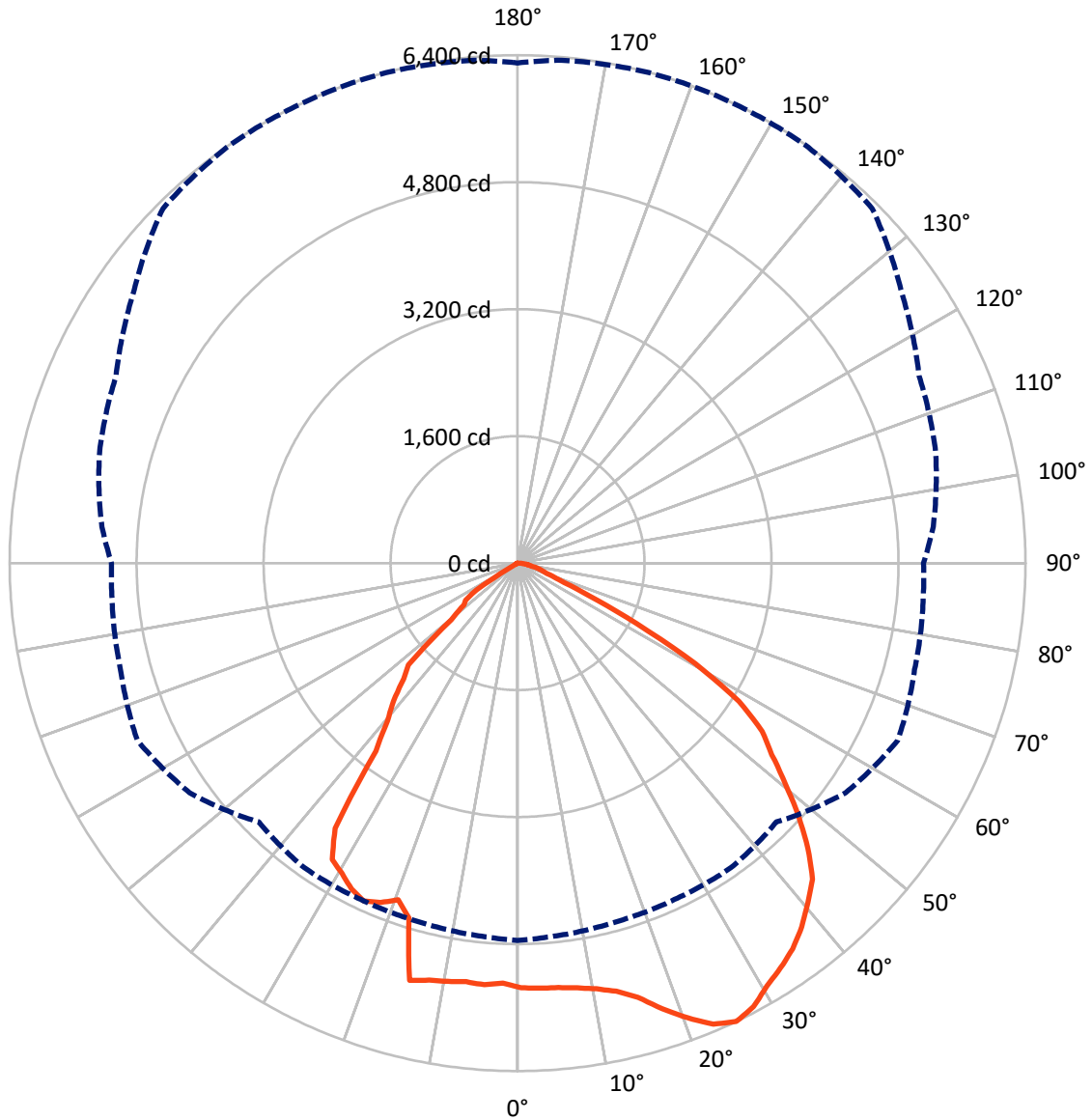
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.4 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	7676.6	0.0	7676.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	4722.9	0.0	4722.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	12399.6	0.0	12399.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.3	4.1
10°-20°	1567.3	12.6
20°-30°	2477.8	20.0
30°-40°	2798.9	22.6
40°-50°	2621.2	21.1
50°-60°	1807.1	14.6
60°-70°	485.5	3.9
70°-80°	101.2	0.8
80°-90°	27.4	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°	12399.6	100.0
0°-180°	12399.6	100.0



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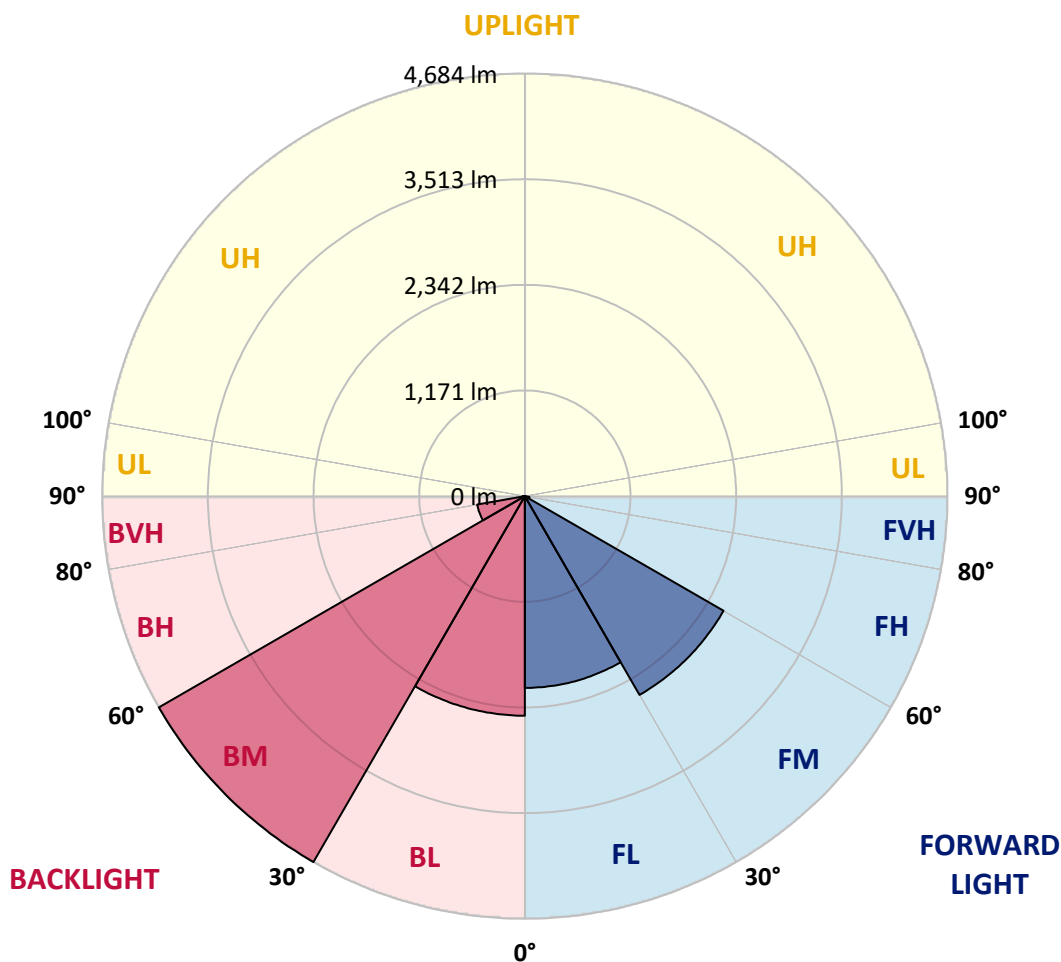
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2124.9	17.1			
FM (30°-60°)	2543.4	20.5			
FH (60°-80°)	51.0	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	2433.4	19.6	B3/2500		
BM (30°-60°)	4683.7	37.8	B3/5000		
BH (60°-80°)	535.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	23.7	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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5350.2	5350.2	5350.2	5350.2	5350.2	5350.2	5350.2	5350.2	5350.2	5350.2
2.5°	5373.9	5339.3	5306.5	5295.5	5341.1	5390.3	5359.3	5361.1	5350.2	5370.2
5°	5414.0	5366.6	5344.7	5328.3	5335.6	5386.6	5342.9	5359.3	5341.1	5364.8
7.5°	5399.4	5366.6	5344.7	5313.7	5337.4	5397.6	5355.7	5357.5	5348.4	5370.2
10°	5390.3	5366.6	5339.3	5342.9	5370.2	5421.3	5388.5	5406.7	5393.9	5406.7
12.5°	5412.1	5386.6	5372.1	5372.1	5395.7	5454.1	5437.7	5454.1	5448.6	5459.5
15°	5206.2	5229.9	5368.4	5430.4	5477.7	5536.1	5528.8	5545.2	5548.8	5565.2
17.5°	4391.7	4368.0	4357.1	4675.9	5523.3	5703.7	5698.2	5696.4	5678.2	5665.4
20°	4499.2	4490.1	4477.3	4501.0	4595.8	5791.2	5827.6	5603.5	5537.9	5532.4
22.5°	4670.5	4655.9	4608.5	4610.3	4639.5	5034.9	5647.2	5443.1	5421.3	5408.5
25°	4754.3	4725.2	4686.9	4675.9	4685.1	4612.2	5044.0	5286.4	5178.9	5129.7
27.5°	4606.7	4608.5	4577.5	4606.7	4572.1	4244.1	4060.0	4980.3	4976.6	4954.8
30°	4495.5	4490.1	4453.6	4490.1	4251.4	3885.1	3806.7	4645.0	4606.7	4577.5
32.5°	4154.8	4158.4	4264.1	4406.3	4014.5	3724.7	3487.8	4149.3	4511.9	4495.5
35°	2972.1	2979.4	3354.8	4056.4	3655.5	3405.8	3387.6	3586.2	4362.5	4369.8
37.5°	2861.0	2861.0	2851.9	2966.7	3373.0	3276.4	3312.9	3292.8	3996.2	4014.5
40°	2780.8	2764.4	2751.6	2571.2	2345.3	3185.3	3210.8	3119.7	3777.6	3781.2
42.5°	2684.2	2666.0	2669.6	2336.2	2099.3	2959.4	2888.3	2766.2	3413.1	3416.8
45°	2507.4	2538.4	2560.3	2044.6	2026.4	2113.8	2664.2	2587.6	3167.1	3234.5
47.5°	1275.6	1302.9	1999.0	1880.6	1922.5	1878.8	2250.5	2252.3	2635.0	2859.1
50°	1157.1	1149.9	1151.7	1097.0	1774.9	1519.8	1627.3	2064.6	2110.2	2430.9
52.5°	1078.8	1077.0	965.8	858.3	1115.2	1337.5	1180.8	1494.3	1569.0	2059.2
55°	798.2	856.5	761.7	807.3	697.9	1071.5	1066.0	1348.5	1374.0	1651.0
57.5°	7.3	9.1	21.9	614.1	482.9	535.7	736.2	920.2	965.8	1286.5
60°	1.8	3.6	9.1	18.2	313.4	329.8	492.0	532.1	599.5	767.2
62.5°	0.0	0.0	3.6	9.1	16.4	134.8	156.7	171.3	264.2	391.8
65°	0.0	0.0	1.8	5.5	9.1	21.9	38.3	80.2	114.8	142.1
67.5°	0.0	0.0	1.8	3.6	7.3	10.9	21.9	31.0	49.2	83.8
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	21.9	29.2	41.9
72.5°	0.0	0.0	1.8	3.6	3.6	10.9	10.9	16.4	21.9	27.3
75°	0.0	0.0	1.8	1.8	3.6	7.3	10.9	12.8	14.6	21.9
77.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	14.6	12.8	12.8
80°	0.0	0.0	1.8	5.5	5.5	9.1	10.9	14.6	9.1	9.1
82.5°	0.0	0.0	1.8	7.3	5.5	18.2	18.2	20.0	7.3	7.3
85°	0.0	0.0	5.5	3.6	10.9	18.2	16.4	10.9	9.1	5.5
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	12.8	10.9	3.6	3.6
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°
5350.2	0°	5350.2	5350.2	5350.2	5350.2	5350.2	5350.2	5350.2	5350.2	5350.2
5317.4	2.5°	5390.3	5366.6	5415.8	5410.3	5386.6	5375.7	5362.9	5352.0	5271.8
5321.0	5°	5392.1	5355.7	5415.8	5404.9	5401.2	5383.0	5372.1	5388.5	5315.6
5335.6	7.5°	5392.1	5355.7	5421.3	5424.9	5419.4	5404.9	5403.0	5414.0	5353.8
5361.1	10°	5428.5	5414.0	5468.6	5474.1	5466.8	5463.2	5454.1	5446.8	5383.0
5448.6	12.5°	5505.1	5475.9	5537.9	5554.3	5548.8	5557.9	5536.1	5547.0	5481.4
5537.9	15°	5598.0	5599.8	5647.2	5683.7	5680.0	5709.2	5676.4	5705.5	5658.2
5639.9	17.5°	5740.2	5760.2	5827.6	5882.3	5902.3	5924.2	5902.3	5911.4	5844.0
5526.9	20°	5590.7	5665.4	5989.8	6090.0	6131.9	6152.0	6115.5	6126.5	6059.1
5388.5	22.5°	5455.9	5552.5	5840.4	6153.8	6283.2	6323.3	6310.5	6308.7	6283.2
5115.1	25°	5257.3	5452.2	5581.6	5913.3	6319.6	6392.5	6399.8	6398.0	6359.7
4947.5	27.5°	5013.1	5056.8	5392.1	5594.4	6064.5	6341.5	6330.6	6277.7	6226.7
4599.4	30°	4701.5	4900.1	5051.3	5373.9	5734.7	6184.8	6184.8	6144.7	6091.9
4475.5	32.5°	4542.9	4799.9	4940.2	5056.8	5364.8	6009.9	6082.7	6040.8	5998.9
4378.9	35°	4459.1	4497.4	4825.4	4931.1	5191.7	5672.7	5967.9	5926.0	5895.0
4122.0	37.5°	4275.0	4364.3	4517.4	4799.9	4880.0	5397.6	5814.9	5793.0	5756.6
3788.5	40°	3865.0	4103.8	4338.8	4606.7	4690.5	5044.0	5629.0	5638.1	5588.9
3433.2	42.5°	3622.7	3784.9	4153.0	4333.4	4559.3	4816.3	5448.6	5463.2	5428.5
3252.8	45°	3338.4	3518.8	3777.6	4105.6	4413.5	4502.8	5129.7	5282.8	5253.6
2893.8	47.5°	3077.8	3223.6	3540.7	3872.3	4213.1	4200.3	4763.4	5051.3	5011.2
2618.6	50°	2707.9	2963.0	3112.4	3416.8	3925.2	3959.8	4373.5	4779.8	4747.0
2225.0	52.5°	2283.3	2604.0	2890.1	3168.9	3633.6	3715.6	4010.8	4502.8	4481.0
1700.2	55°	1995.4	2228.6	2551.2	2775.3	3280.1	3498.8	3739.3	4238.6	4227.7
1397.7	57.5°	1419.5	1869.7	2135.7	2449.1	2715.2	3110.6	3289.2	3701.0	3599.0
774.5	60°	962.2	1173.5	1497.9	1835.0	2013.6	2409.0	2574.9	2904.7	2877.4
462.9	62.5°	508.4	703.4	934.8	1104.3	1233.7	1618.2	1687.4	2042.8	2033.7
185.9	65°	224.1	297.0	506.6	594.1	727.1	905.7	965.8	1093.4	1062.4
91.1	67.5°	116.6	176.8	286.1	351.7	442.8	510.2	559.4	599.5	625.0
60.1	70°	71.1	129.4	176.8	244.2	304.3	359.0	397.3	451.9	484.7
31.0	72.5°	52.8	82.0	122.1	187.7	220.5	284.3	322.5	362.6	391.8
25.5	75°	29.2	54.7	98.4	147.6	176.8	231.4	266.1	293.4	302.5
14.6	77.5°	18.2	41.9	82.0	114.8	138.5	187.7	178.6	204.1	226.0
10.9	80°	12.8	31.0	63.8	94.8	96.6	120.3	142.1	164.0	178.6
7.3	82.5°	9.1	25.5	47.4	72.9	63.8	92.9	111.2	127.6	92.9
5.5	85°	7.3	18.2	23.7	43.7	36.4	65.6	56.5	54.7	36.4
3.6	87.5°	5.5	9.1	16.4	20.0	14.6	14.6	18.2	21.9	18.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
5350.2  
5217.2  
5253.6  
5284.6  
5330.1  
5423.1  
5579.8  
5785.7  
6011.7  
6201.2  
**6301.4**  
6186.6  
6071.8  
5964.3  
5851.3  
5720.1  
5578.0  
5424.9  
5257.3  
5040.4  
4752.5  
4495.5  
4240.4  
3588.1  
2879.2  
2035.5  
1049.6  
625.0  
486.5  
397.3  
297.0  
229.6  
180.4  
67.4  
36.4  
18.2  
0.0

(END OF REPORT)