

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: P638450

Luminaire Tested: **IFLD-S-SA2C-750-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638450  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-750-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10715.7 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

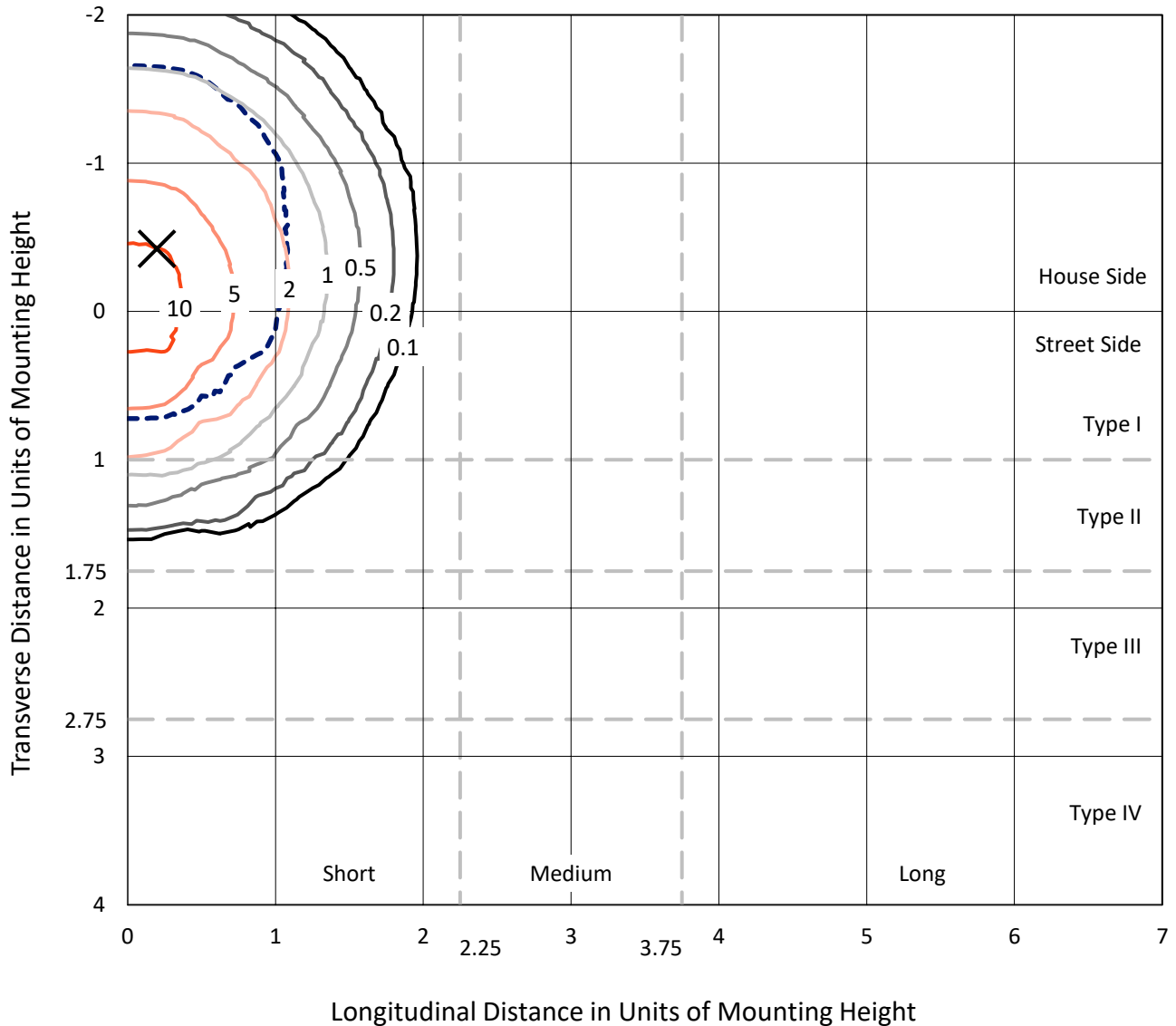
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

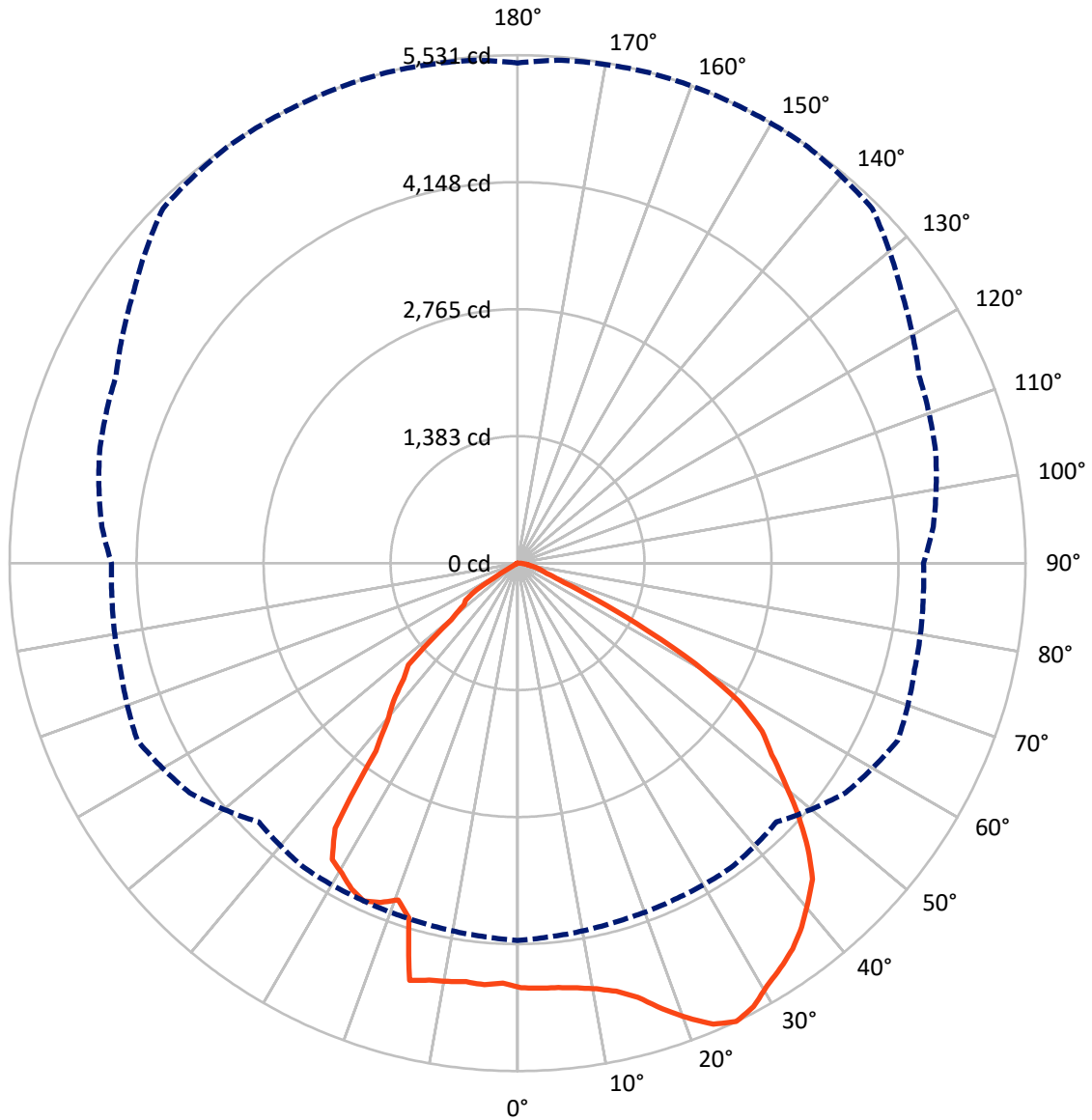
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 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	6634.1	0.0	6634.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	4081.6	0.0	4081.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	10715.7	0.0	10715.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.6	4.1
10°-20°	1354.4	12.6
20°-30°	2141.3	20.0
30°-40°	2418.8	22.6
40°-50°	2265.2	21.1
50°-60°	1561.7	14.6
60°-70°	419.6	3.9
70°-80°	87.4	0.8
80°-90°	23.6	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°	10715.7	100.0
0°-180°	10715.7	100.0



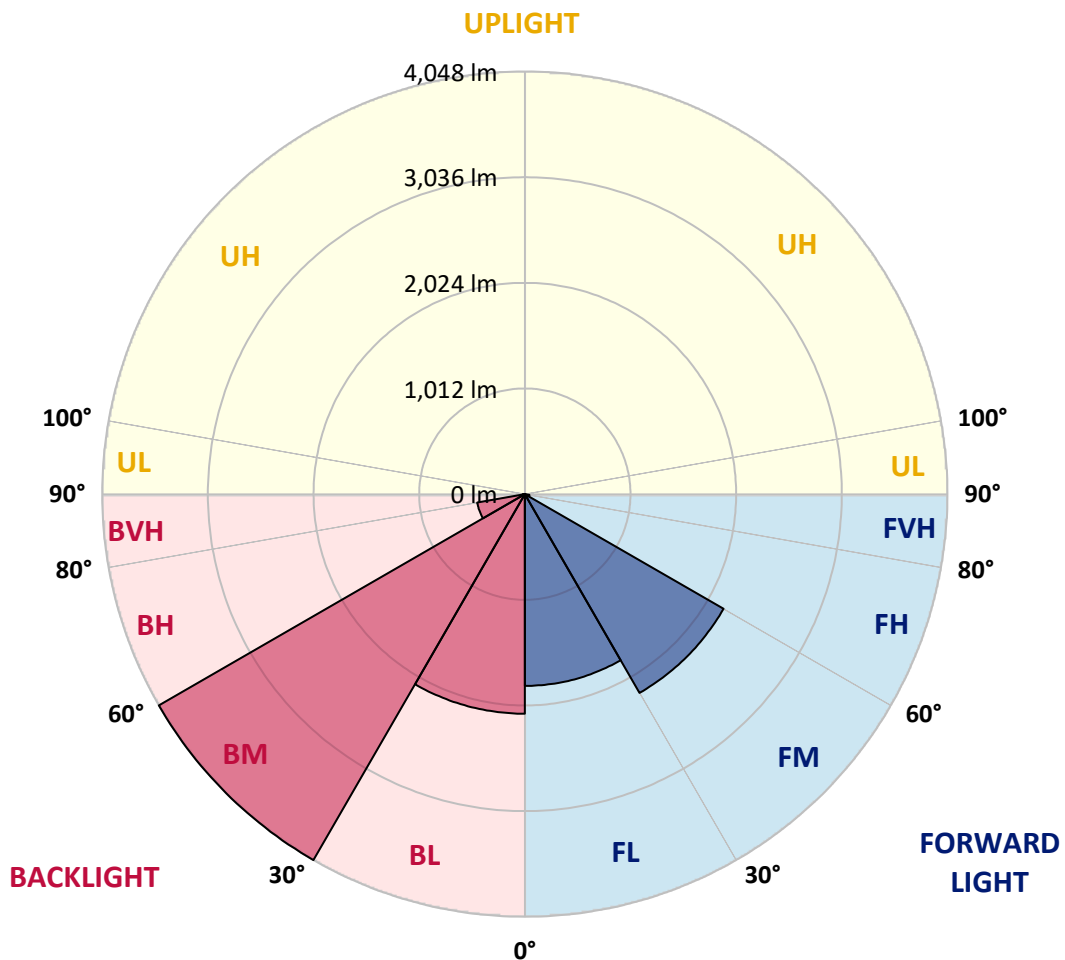
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1836.3	17.1			
FM	(30°-60°)	2198.0	20.5			
FH	(60°-80°)	44.0	0.4			G0/660
FVH	(80°-90°)	3.2	0.0			G0/10
BL	(0°-30°)	2103.0	19.6	B3/2500		
BM	(30°-60°)	4047.7	37.8	B3/5000		
BH	(60°-80°)	463.0	4.3	B1/500		G1/500
BVH	(80°-90°)	20.5	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°	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6
2.5°	4644.1	4614.2	4585.8	4576.4	4615.8	4658.3	4631.5	4633.1	4623.6	4641.0
5°	4678.7	4637.8	4618.9	4604.7	4611.0	4655.1	4617.3	4631.5	4615.8	4636.2
7.5°	4666.2	4637.8	4618.9	4592.1	4612.6	4664.6	4628.4	4629.9	4622.1	4641.0
10°	4658.3	4637.8	4614.2	4617.3	4641.0	4685.0	4656.7	4672.4	4661.4	4672.4
12.5°	4677.2	4655.1	4642.5	4642.5	4663.0	4713.4	4699.2	4713.4	4708.7	4718.1
15°	4499.2	4519.7	4639.4	4692.9	4733.9	4784.3	4778.0	4792.1	4795.3	4809.5
17.5°	3795.3	3774.8	3765.4	4041.0	4773.2	4929.1	4924.4	4922.8	4907.1	4896.1
20°	3888.2	3880.3	3869.3	3889.8	3971.7	5004.7	5036.2	4842.5	4785.8	4781.1
22.5°	4036.2	4023.6	3982.7	3984.3	4009.5	4351.2	4880.3	4703.9	4685.0	4674.0
25°	4108.7	4083.5	4050.4	4041.0	4048.8	3985.8	4359.1	4568.5	4475.6	4433.1
27.5°	3981.1	3982.7	3955.9	3981.1	3951.2	3667.7	3508.7	4303.9	4300.8	4281.9
30°	3885.0	3880.3	3848.8	3880.3	3674.0	3357.5	3289.8	4014.2	3981.1	3955.9
32.5°	3590.6	3593.7	3685.0	3807.9	3469.3	3218.9	3014.2	3585.8	3899.2	3885.0
35°	2568.5	2574.8	2899.2	3505.5	3159.1	2943.3	2927.6	3099.2	3770.1	3776.4
37.5°	2472.4	2472.4	2464.6	2563.8	2915.0	2831.5	2863.0	2845.7	3453.5	3469.3
40°	2403.2	2389.0	2378.0	2222.1	2026.8	2752.8	2774.8	2696.1	3264.6	3267.7
42.5°	2319.7	2303.9	2307.1	2018.9	1814.2	2557.5	2496.1	2390.6	2949.6	2952.8
45°	2166.9	2193.7	2212.6	1766.9	1751.2	1826.8	2302.4	2236.2	2737.0	2795.3
47.5°	1102.4	1126.0	1727.6	1625.2	1661.4	1623.6	1944.9	1946.5	2277.2	2470.9
50°	1000.0	993.7	995.3	948.0	1533.9	1313.4	1406.3	1784.3	1823.6	2100.8
52.5°	932.3	930.7	834.6	741.7	963.8	1155.9	1020.5	1291.3	1355.9	1779.5
55°	689.8	740.2	658.3	697.6	603.2	926.0	921.3	1165.4	1187.4	1426.8
57.5°	6.3	7.9	18.9	530.7	417.3	463.0	636.2	795.3	834.6	1111.8
60°	1.6	3.1	7.9	15.7	270.9	285.0	425.2	459.8	518.1	663.0
62.5°	0.0	0.0	3.1	7.9	14.2	116.5	135.4	148.0	228.3	338.6
65°	0.0	0.0	1.6	4.7	7.9	18.9	33.1	69.3	99.2	122.8
67.5°	0.0	0.0	1.6	3.1	6.3	9.4	18.9	26.8	42.5	72.4
70°	0.0	0.0	1.6	3.1	4.7	7.9	12.6	18.9	25.2	36.2
72.5°	0.0	0.0	1.6	3.1	3.1	9.4	9.4	14.2	18.9	23.6
75°	0.0	0.0	1.6	1.6	3.1	6.3	9.4	11.0	12.6	18.9
77.5°	0.0	0.0	1.6	3.1	4.7	6.3	7.9	12.6	11.0	11.0
80°	0.0	0.0	1.6	4.7	4.7	7.9	9.4	12.6	7.9	7.9
82.5°	0.0	0.0	1.6	6.3	4.7	15.7	15.7	17.3	6.3	6.3
85°	0.0	0.0	4.7	3.1	9.4	15.7	14.2	9.4	7.9	4.7
87.5°	0.0	0.0	1.6	1.6	3.1	4.7	11.0	9.4	3.1	3.1
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°
4623.6	0°	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6	4623.6
4595.3	2.5°	4658.3	4637.8	4680.3	4675.6	4655.1	4645.7	4634.7	4625.2	4555.9
4598.4	5°	4659.9	4628.4	4680.3	4670.9	4667.7	4652.0	4642.5	4656.7	4593.7
4611.0	7.5°	4659.9	4628.4	4685.0	4688.2	4683.5	4670.9	4669.3	4678.7	4626.8
4633.1	10°	4691.3	4678.7	4726.0	4730.7	4724.4	4721.3	4713.4	4707.1	4652.0
4708.7	12.5°	4757.5	4732.3	4785.8	4800.0	4795.3	4803.2	4784.3	4793.7	4737.0
4785.8	15°	4837.8	4839.4	4880.3	4911.8	4908.7	4933.9	4905.5	4930.7	4889.8
4874.0	17.5°	4960.6	4978.0	5036.2	5083.5	5100.8	5119.7	5100.8	5108.7	5050.4
4776.4	20°	4831.5	4896.1	5176.4	5263.0	5299.2	5316.5	5285.0	5294.5	5236.2
4656.7	22.5°	4715.0	4798.4	5047.3	5318.1	5429.9	5464.6	5453.6	5452.0	5429.9
4420.5	25°	4543.3	4711.8	4823.6	5110.2	5461.4	5524.4	5530.7	5529.1	5496.1
4275.6	27.5°	4332.3	4370.1	4659.9	4834.7	5241.0	5480.3	5470.9	5425.2	5381.1
3974.8	30°	4063.0	4234.7	4365.4	4644.1	4955.9	5344.9	5344.9	5310.2	5264.6
3867.7	32.5°	3926.0	4148.0	4269.3	4370.1	4636.2	5193.7	5256.7	5220.5	5184.3
3784.3	35°	3853.6	3886.6	4170.1	4261.4	4486.6	4902.4	5157.5	5121.3	5094.5
3562.2	37.5°	3694.5	3771.7	3903.9	4148.0	4217.3	4664.6	5025.2	5006.3	4974.8
3274.0	40°	3340.2	3546.5	3749.6	3981.1	4053.6	4359.1	4864.6	4872.4	4829.9
2966.9	42.5°	3130.7	3270.9	3589.0	3744.9	3940.2	4162.2	4708.7	4721.3	4691.3
2811.0	45°	2885.0	3041.0	3264.6	3548.0	3814.2	3891.3	4433.1	4565.4	4540.2
2500.8	47.5°	2659.8	2785.8	3059.8	3346.5	3641.0	3629.9	4116.5	4365.4	4330.7
2263.0	50°	2340.2	2560.6	2689.8	2952.8	3392.1	3422.1	3779.5	4130.7	4102.4
1922.8	52.5°	1973.2	2250.4	2497.6	2738.6	3140.2	3211.0	3466.1	3891.3	3872.4
1469.3	55°	1724.4	1926.0	2204.7	2398.4	2834.7	3023.6	3231.5	3663.0	3653.5
1207.9	57.5°	1226.8	1615.8	1845.7	2116.5	2346.5	2688.2	2842.5	3198.4	3110.2
669.3	60°	831.5	1014.2	1294.5	1585.8	1740.2	2081.9	2225.2	2510.2	2486.6
400.0	62.5°	439.4	607.9	807.9	954.3	1066.1	1398.4	1458.3	1765.4	1757.5
160.6	65°	193.7	256.7	437.8	513.4	628.3	782.7	834.6	944.9	918.1
78.7	67.5°	100.8	152.8	247.2	303.9	382.7	440.9	483.5	518.1	540.2
52.0	70°	61.4	111.8	152.8	211.0	263.0	310.2	343.3	390.6	418.9
26.8	72.5°	45.7	70.9	105.5	162.2	190.6	245.7	278.7	313.4	338.6
22.0	75°	25.2	47.2	85.0	127.6	152.8	200.0	229.9	253.5	261.4
12.6	77.5°	15.7	36.2	70.9	99.2	119.7	162.2	154.3	176.4	195.3
9.4	80°	11.0	26.8	55.1	81.9	83.5	103.9	122.8	141.7	154.3
6.3	82.5°	7.9	22.0	40.9	63.0	55.1	80.3	96.1	110.2	80.3
4.7	85°	6.3	15.7	20.5	37.8	31.5	56.7	48.8	47.2	31.5
3.1	87.5°	4.7	7.9	14.2	17.3	12.6	12.6	15.7	18.9	15.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
4623.6  
4508.7  
4540.2  
4566.9  
4606.3  
4686.6  
4822.1  
5000.0  
5195.3  
5359.1  
5445.7  
5346.5  
5247.3  
5154.3  
5056.7  
4943.3  
4820.5  
4688.2  
4543.3  
4355.9  
4107.1  
3885.0  
3664.6  
3100.8  
2488.2  
1759.1  
907.1  
540.2  
420.5  
343.3  
256.7  
198.4  
155.9  
58.3  
31.5  
15.7  
0.0

(END OF REPORT)