

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: P638338

Luminaire Tested: **IFLD-S-SA3B-727-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638338  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-727-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10488.3 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

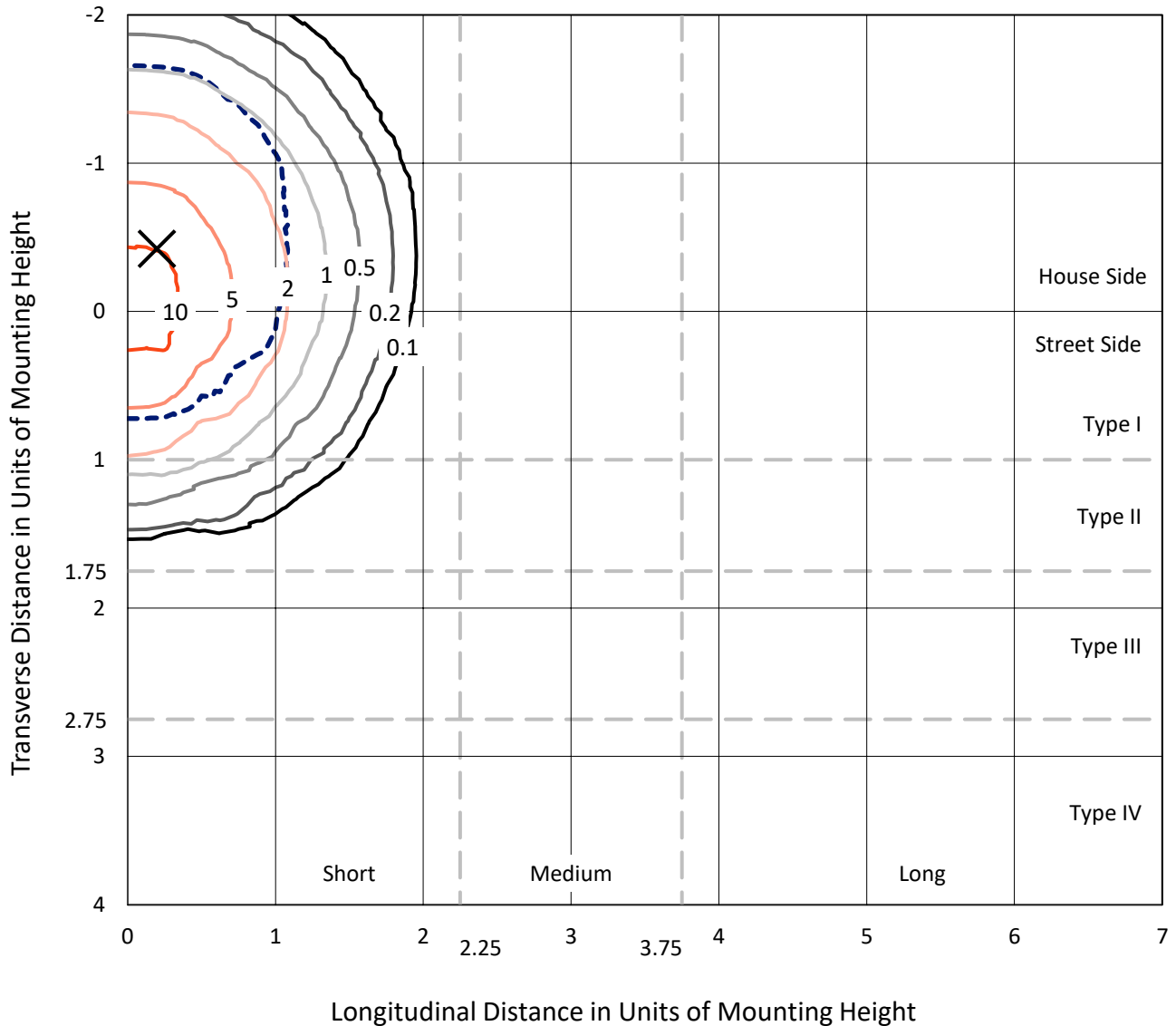
Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

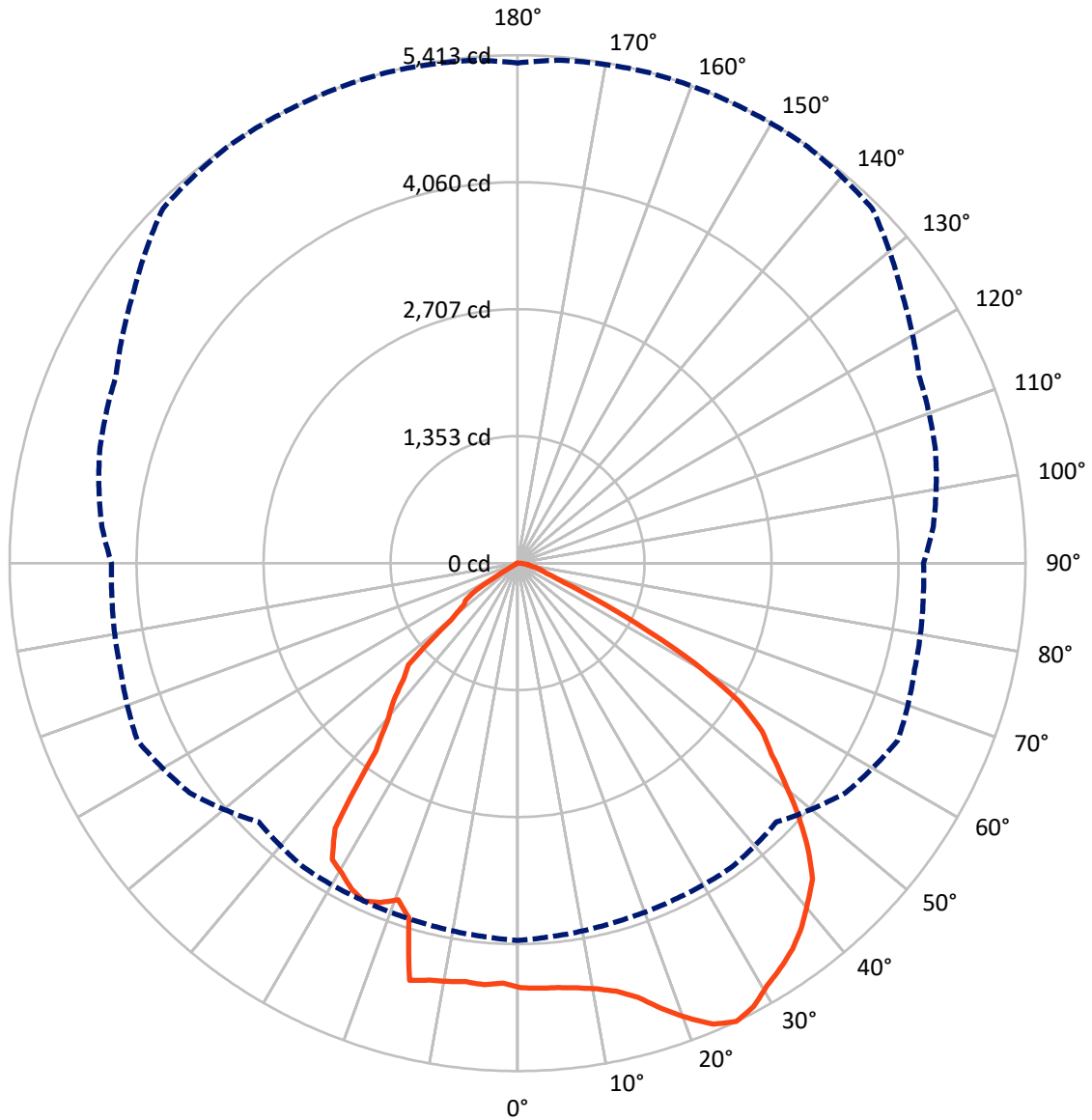
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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	6493.3	0.0	6493.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3995.0	0.0	3995.0
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	10488.3	0.0	10488.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.2	4.1
10°-20°	1325.7	12.6
20°-30°	2095.9	20.0
30°-40°	2367.4	22.6
40°-50°	2217.2	21.1
50°-60°	1528.6	14.6
60°-70°	410.7	3.9
70°-80°	85.6	0.8
80°-90°	23.1	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°	10488.3	100.0
0°-180°	10488.3	100.0



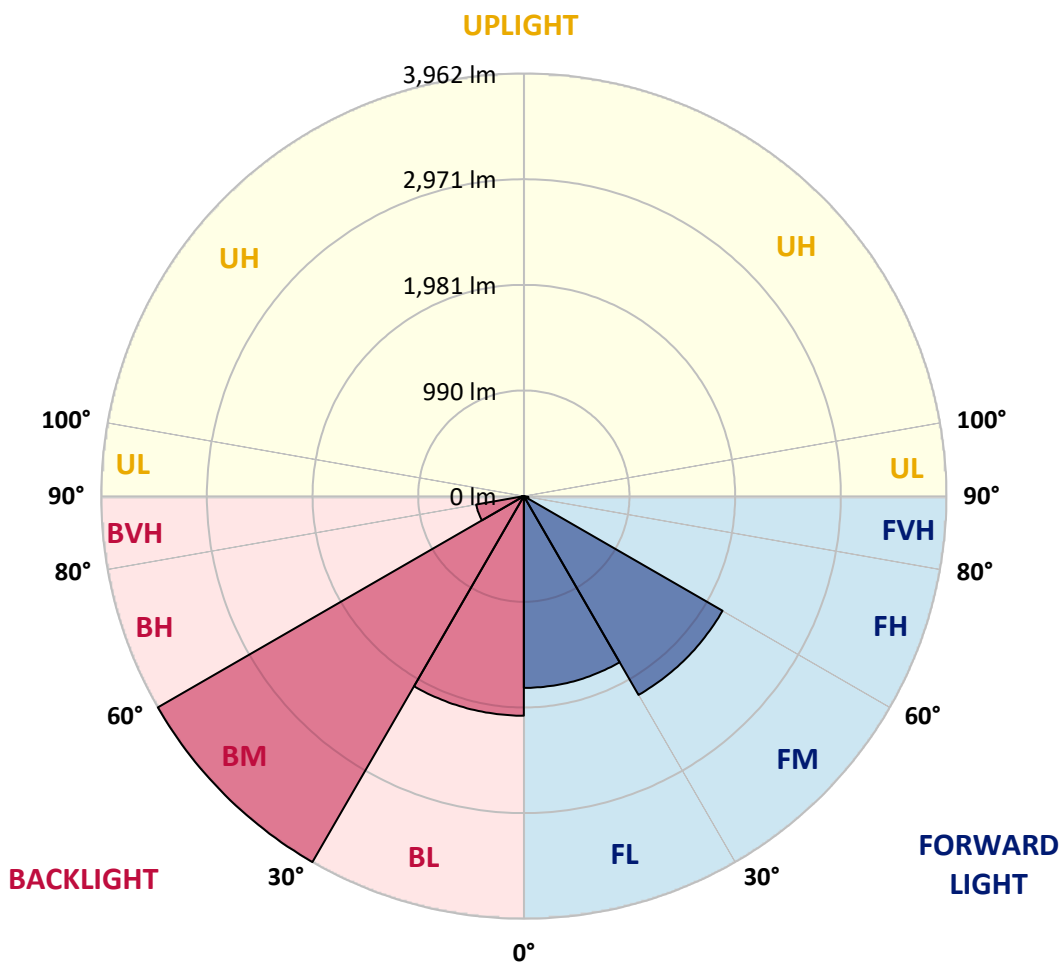
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.4	17.1			
FM (30°-60°)	2151.4	20.5			
FH (60°-80°)	43.1	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2058.3	19.6	B3/2500		
BM (30°-60°)	3961.8	37.8	B3/5000		
BH (60°-80°)	453.1	4.3	B1/500		G1/500
BVH (80°-90°)	20.0	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°	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5
2.5°	4545.6	4516.3	4488.5	4479.3	4517.8	4559.4	4533.2	4534.8	4525.5	4542.5
5°	4579.5	4539.4	4520.9	4507.0	4513.2	4556.3	4519.3	4533.2	4517.8	4537.8
7.5°	4567.1	4539.4	4520.9	4494.7	4514.7	4565.6	4530.1	4531.7	4524.0	4542.5
10°	4559.4	4539.4	4516.3	4519.3	4542.5	4585.6	4557.9	4573.3	4562.5	4573.3
12.5°	4577.9	4556.3	4544.0	4544.0	4564.0	4613.4	4599.5	4613.4	4608.8	4618.0
15°	4403.7	4423.8	4540.9	4593.3	4633.4	4682.7	4676.6	4690.4	4693.5	4707.4
17.5°	3714.7	3694.7	3685.5	3955.2	4671.9	4824.5	4819.9	4818.4	4803.0	4792.2
20°	3805.7	3798.0	3787.2	3807.2	3887.4	4898.5	4929.4	4739.8	4684.3	4679.7
22.5°	3950.6	3938.2	3898.2	3899.7	3924.4	4258.9	4776.8	4604.1	4585.6	4574.8
25°	4021.5	3996.8	3964.5	3955.2	3962.9	3901.3	4266.6	4471.6	4380.6	4339.0
27.5°	3896.6	3898.2	3872.0	3896.6	3867.3	3589.9	3434.2	4212.6	4209.5	4191.0
30°	3802.6	3798.0	3767.2	3798.0	3596.1	3286.2	3220.0	3929.0	3896.6	3872.0
32.5°	3514.4	3517.4	3606.8	3727.1	3395.7	3150.6	2950.2	3509.7	3816.5	3802.6
35°	2514.0	2520.2	2837.7	3431.1	3092.0	2880.9	2865.4	3033.5	3690.1	3696.2
37.5°	2420.0	2420.0	2412.3	2509.4	2853.1	2771.4	2802.2	2785.3	3380.3	3395.7
40°	2352.2	2338.3	2327.5	2174.9	1983.8	2694.3	2715.9	2638.9	3195.3	3198.4
42.5°	2270.5	2255.1	2258.1	1976.1	1775.7	2503.2	2443.1	2339.8	2887.0	2890.1
45°	2120.9	2147.2	2165.7	1729.4	1714.0	1788.0	2253.5	2188.8	2678.9	2736.0
47.5°	1079.0	1102.1	1690.9	1590.7	1626.2	1589.2	1903.6	1905.2	2228.8	2418.4
50°	978.8	972.6	974.2	927.9	1501.3	1285.5	1376.5	1746.4	1784.9	2056.2
52.5°	912.5	911.0	816.9	726.0	943.3	1131.4	998.8	1263.9	1327.1	1741.8
55°	675.1	724.5	644.3	682.8	590.4	906.3	901.7	1140.6	1162.2	1396.5
57.5°	6.2	7.7	18.5	519.4	408.5	453.2	622.7	778.4	816.9	1088.2
60°	1.5	3.1	7.7	15.4	265.1	279.0	416.2	450.1	507.1	648.9
62.5°	0.0	0.0	3.1	7.7	13.9	114.1	132.6	144.9	223.5	331.4
65°	0.0	0.0	1.5	4.6	7.7	18.5	32.4	67.8	97.1	120.2
67.5°	0.0	0.0	1.5	3.1	6.2	9.2	18.5	26.2	41.6	70.9
70°	0.0	0.0	1.5	3.1	4.6	7.7	12.3	18.5	24.7	35.5
72.5°	0.0	0.0	1.5	3.1	3.1	9.2	9.2	13.9	18.5	23.1
75°	0.0	0.0	1.5	1.5	3.1	6.2	9.2	10.8	12.3	18.5
77.5°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	12.3	10.8	10.8
80°	0.0	0.0	1.5	4.6	4.6	7.7	9.2	12.3	7.7	7.7
82.5°	0.0	0.0	1.5	6.2	4.6	15.4	15.4	17.0	6.2	6.2
85°	0.0	0.0	4.6	3.1	9.2	15.4	13.9	9.2	7.7	4.6
87.5°	0.0	0.0	1.5	1.5	3.1	4.6	10.8	9.2	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°
4525.5	0°	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5	4525.5
4497.8	2.5°	4559.4	4539.4	4581.0	4576.4	4556.3	4547.1	4536.3	4527.1	4459.2
4500.9	5°	4561.0	4530.1	4581.0	4571.8	4568.7	4553.3	4544.0	4557.9	4496.2
4513.2	7.5°	4561.0	4530.1	4585.6	4588.7	4584.1	4571.8	4570.2	4579.5	4528.6
4534.8	10°	4591.8	4579.5	4625.7	4630.3	4624.2	4621.1	4613.4	4607.2	4553.3
4608.8	12.5°	4656.5	4631.9	4684.3	4698.2	4693.5	4701.2	4682.7	4692.0	4636.5
4684.3	15°	4735.1	4736.7	4776.8	4807.6	4804.5	4829.2	4801.4	4826.1	4786.0
4770.6	17.5°	4855.4	4872.3	4929.4	4975.6	4992.6	5011.1	4992.6	5000.3	4943.2
4675.0	20°	4729.0	4792.2	5066.5	5151.3	5186.8	5203.7	5172.9	5182.1	5125.1
4557.9	22.5°	4614.9	4696.6	4940.1	5205.3	5314.7	5348.6	5337.8	5336.3	5314.7
4326.7	25°	4446.9	4611.8	4721.3	5001.8	5345.5	5407.2	5413.4	5411.8	5379.4
4184.9	27.5°	4240.4	4277.4	4561.0	4732.1	5129.7	5364.0	5354.8	5310.1	5266.9
3890.5	30°	3976.8	4144.8	4272.7	4545.6	4850.7	5231.5	5231.5	5197.6	5152.9
3785.6	32.5°	3842.7	4060.0	4178.7	4277.4	4537.8	5083.5	5145.2	5109.7	5074.2
3704.0	35°	3771.8	3804.1	4081.6	4171.0	4391.4	4798.3	5048.0	5012.6	4986.4
3486.6	37.5°	3616.1	3691.6	3821.1	4060.0	4127.8	4565.6	4918.6	4900.1	4869.2
3204.5	40°	3269.3	3471.2	3670.0	3896.6	3967.5	4266.6	4761.3	4769.1	4727.4
2904.0	42.5°	3064.3	3201.5	3512.8	3665.4	3856.6	4073.9	4608.8	4621.1	4591.8
2751.4	45°	2823.8	2976.4	3195.3	3472.7	3733.2	3808.8	4339.0	4468.5	4443.8
2447.7	47.5°	2603.4	2726.7	2994.9	3275.4	3563.7	3552.9	4029.2	4272.7	4238.8
2215.0	50°	2290.5	2506.3	2632.7	2890.1	3320.1	3349.4	3699.3	4043.1	4015.3
1882.0	52.5°	1931.4	2202.6	2444.6	2680.5	3073.5	3142.9	3392.6	3808.8	3790.3
1438.1	55°	1687.8	1885.1	2157.9	2347.5	2774.5	2959.5	3162.9	3585.3	3576.0
1182.2	57.5°	1200.7	1581.5	1806.5	2071.6	2296.7	2631.1	2782.2	3130.6	3044.2
655.1	60°	813.9	992.7	1267.0	1552.2	1703.2	2037.7	2178.0	2457.0	2433.9
391.5	62.5°	430.0	595.0	790.7	934.1	1043.5	1368.8	1427.3	1727.9	1720.2
157.2	65°	189.6	251.2	428.5	502.5	615.0	766.1	816.9	924.8	898.6
77.1	67.5°	98.6	149.5	242.0	297.5	374.6	431.6	473.2	507.1	528.7
50.9	70°	60.1	109.4	149.5	206.5	257.4	303.7	336.0	382.3	410.0
26.2	72.5°	44.7	69.4	103.3	158.8	186.5	240.5	272.8	306.7	331.4
21.6	75°	24.7	46.2	83.2	124.9	149.5	195.8	225.0	248.2	255.9
12.3	77.5°	15.4	35.5	69.4	97.1	117.1	158.8	151.1	172.6	191.1
9.2	80°	10.8	26.2	53.9	80.2	81.7	101.7	120.2	138.7	151.1
6.2	82.5°	7.7	21.6	40.1	61.7	53.9	78.6	94.0	107.9	78.6
4.6	85°	6.2	15.4	20.0	37.0	30.8	55.5	47.8	46.2	30.8
3.1	87.5°	4.6	7.7	13.9	17.0	12.3	12.3	15.4	18.5	15.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
4525.5  
4413.0  
4443.8  
4470.0  
4508.6  
4587.2  
4719.7  
4893.9  
5085.0  
5245.3  
**5330.1**  
5233.0  
5135.9  
5045.0  
4949.4  
4838.4  
4718.2  
4588.7  
4446.9  
4263.5  
4019.9  
3802.6  
3586.8  
3035.0  
2435.4  
1721.7  
887.8  
528.7  
411.6  
336.0  
251.2  
194.2  
152.6  
57.0  
30.8  
15.4  
0.0

(END OF REPORT)