

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: P638522

Luminaire Tested: **IFLD-M-SA4B-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638522  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12374.3 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G2

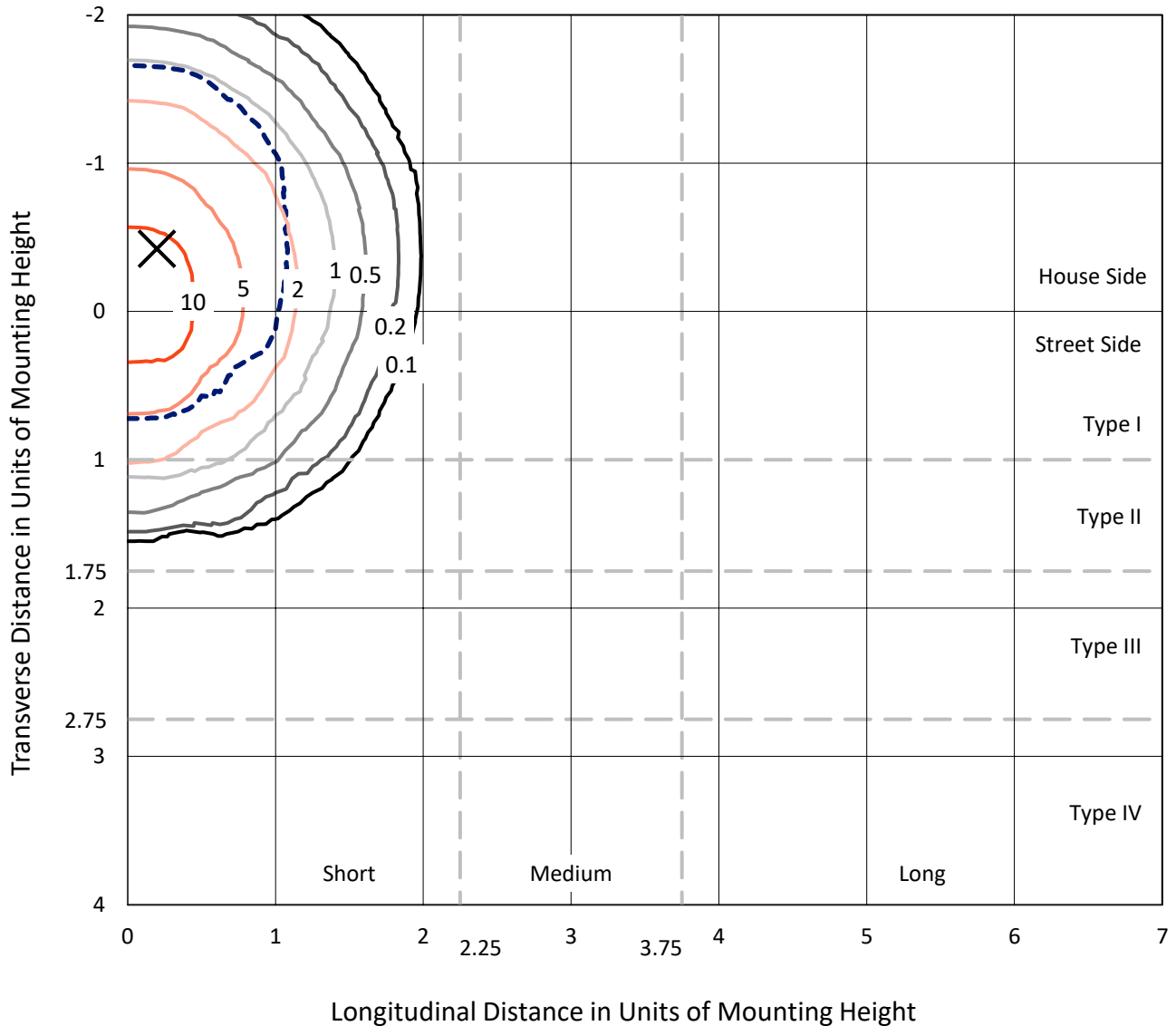
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

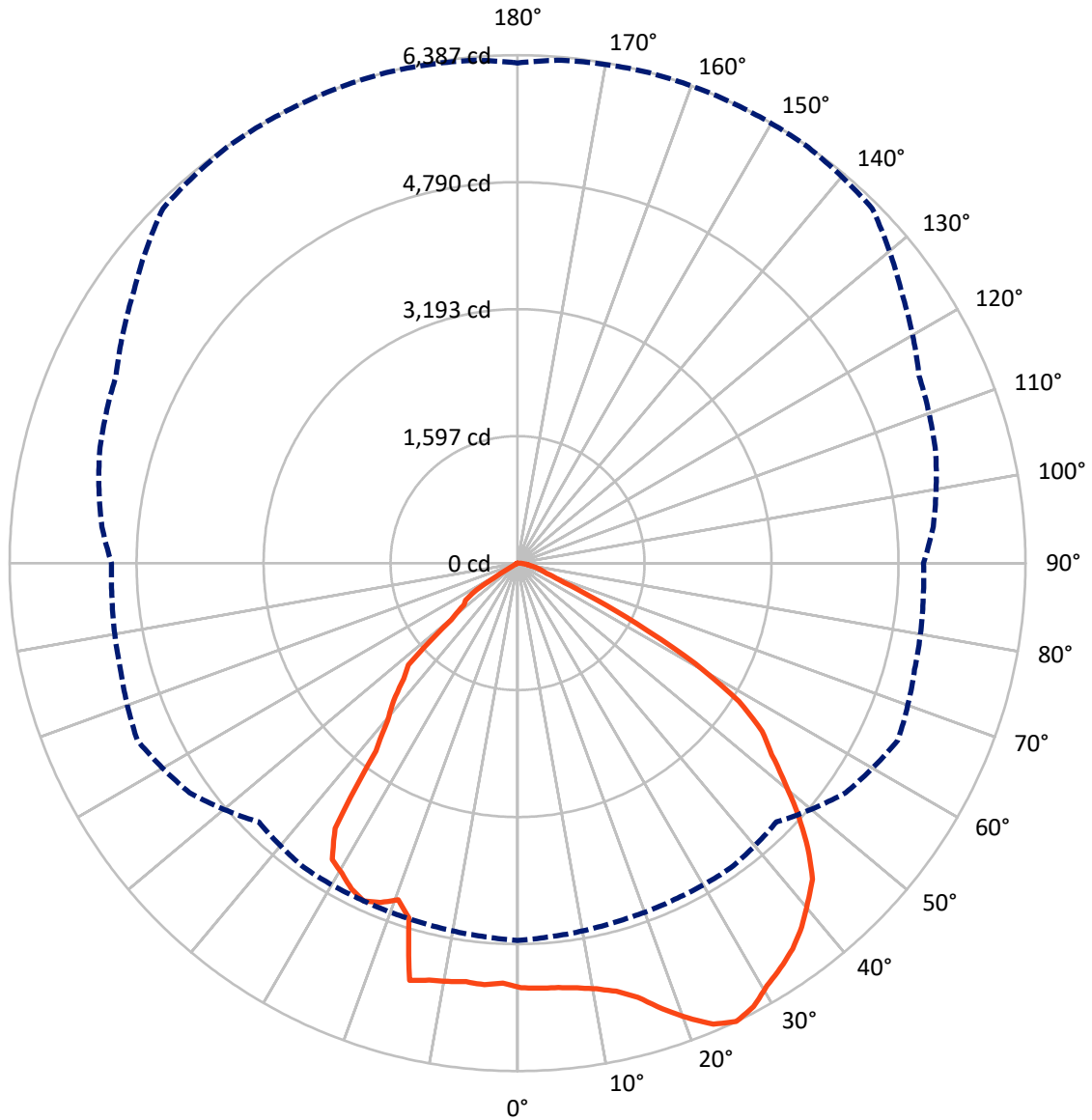
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.3 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	7661.0	0.0	7661.0
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	4713.3	0.0	4713.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	12374.3	0.0	12374.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.2	4.1
10°-20°	1564.1	12.6
20°-30°	2472.7	20.0
30°-40°	2793.2	22.6
40°-50°	2615.8	21.1
50°-60°	1803.4	14.6
60°-70°	484.5	3.9
70°-80°	101.0	0.8
80°-90°	27.3	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°	12374.3	100.0
0°-180°	12374.3	100.0



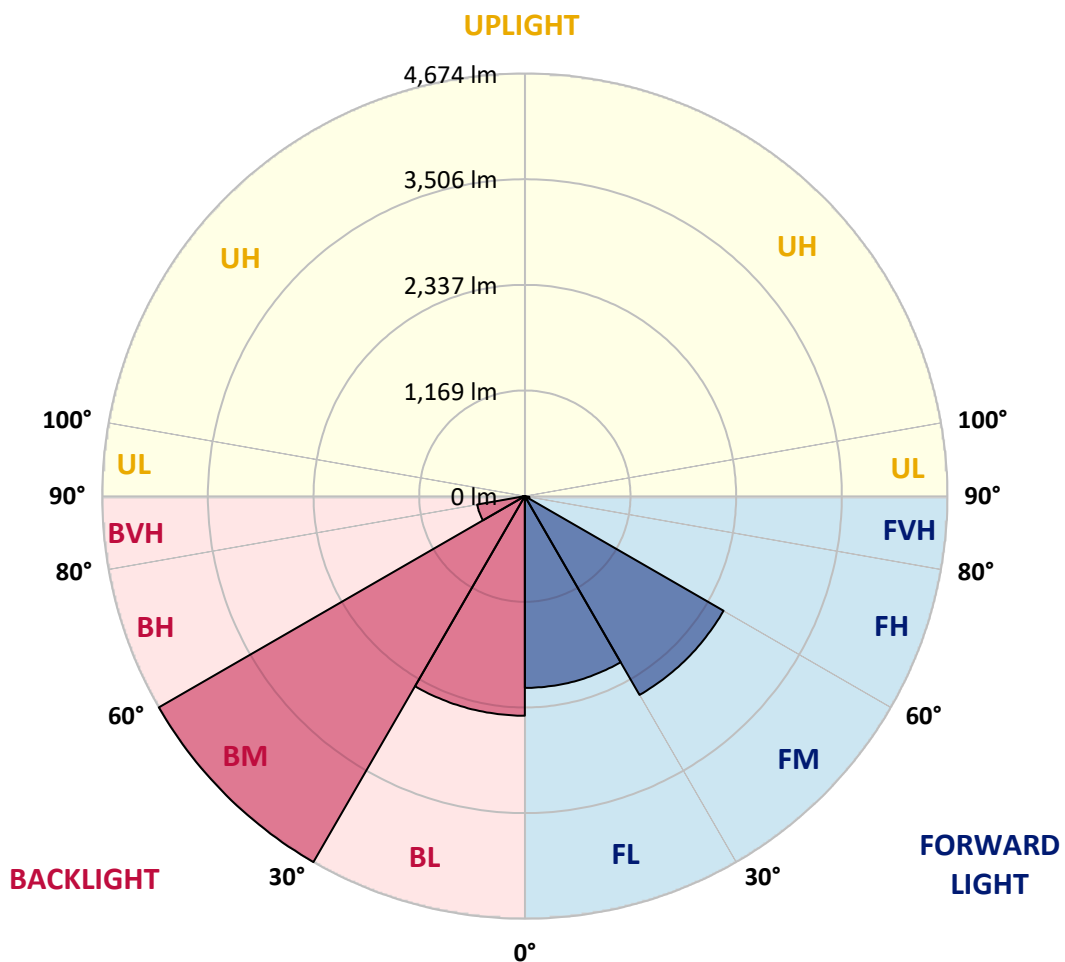
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2120.6	17.1			
FM (30°-60°)	2538.2	20.5			
FH (60°-80°)	50.9	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	2428.5	19.6	B3/2500		
BM (30°-60°)	4674.2	37.8	B3/5000		
BH (60°-80°)	534.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	23.6	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°	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3
2.5°	5362.9	5328.4	5295.6	5284.7	5330.2	5379.3	5348.4	5350.2	5339.3	5359.3
5°	5402.9	5355.7	5333.8	5317.5	5324.7	5375.7	5332.0	5348.4	5330.2	5353.8
7.5°	5388.4	5355.7	5333.8	5302.9	5326.6	5386.6	5344.8	5346.6	5337.5	5359.3
10°	5379.3	5355.7	5328.4	5332.0	5359.3	5410.2	5377.5	5395.7	5382.9	5395.7
12.5°	5401.1	5375.7	5361.1	5361.1	5384.8	5443.0	5426.6	5443.0	5437.5	5448.4
15°	5195.6	5219.3	5357.5	5419.3	5466.6	5524.8	5517.5	5533.9	5537.5	5553.9
17.5°	4382.7	4359.1	4348.2	4666.4	5512.1	5692.1	5686.6	5684.8	5666.6	5653.9
20°	4490.0	4480.9	4468.2	4491.8	4586.4	5779.4	5815.8	5592.1	5526.6	5521.2
22.5°	4661.0	4646.4	4599.1	4601.0	4630.1	5024.7	5635.7	5432.0	5410.2	5397.5
25°	4744.6	4715.5	4677.3	4666.4	4675.5	4602.8	5033.8	5275.6	5168.3	5119.2
27.5°	4597.3	4599.1	4568.2	4597.3	4562.8	4235.4	4051.8	4970.1	4966.5	4944.7
30°	4486.4	4480.9	4444.6	4480.9	4242.7	3877.2	3799.0	4635.5	4597.3	4568.2
32.5°	4146.3	4150.0	4255.4	4397.3	4006.3	3717.1	3480.7	4140.9	4502.8	4486.4
35°	2966.1	2973.3	3348.0	4048.1	3648.0	3398.9	3380.7	3578.9	4353.6	4360.9
37.5°	2855.1	2855.1	2846.0	2960.6	3366.2	3269.8	3306.1	3286.1	3988.1	4006.3
40°	2775.1	2758.8	2746.0	2566.0	2340.5	3178.8	3204.3	3113.4	3769.9	3773.5
42.5°	2678.7	2660.6	2664.2	2331.4	2095.0	2953.3	2882.4	2760.6	3406.2	3409.8
45°	2502.3	2533.3	2555.1	2040.4	2022.2	2109.5	2658.7	2582.4	3160.7	3227.9
47.5°	1273.0	1300.3	1995.0	1876.8	1918.6	1874.9	2245.9	2247.7	2629.6	2853.3
50°	1154.8	1147.5	1149.3	1094.8	1771.3	1516.7	1624.0	2060.4	2105.9	2426.0
52.5°	1076.6	1074.8	963.8	856.5	1113.0	1334.8	1178.4	1491.2	1565.8	2055.0
55°	796.5	854.7	760.2	805.6	696.5	1069.3	1063.9	1345.7	1371.2	1647.6
57.5°	7.3	9.1	21.8	612.9	481.9	534.7	734.7	918.4	963.8	1283.9
60°	1.8	3.6	9.1	18.2	312.8	329.2	491.0	531.0	598.3	765.6
62.5°	0.0	0.0	3.6	9.1	16.4	134.6	156.4	170.9	263.7	391.0
65°	0.0	0.0	1.8	5.5	9.1	21.8	38.2	80.0	114.6	141.8
67.5°	0.0	0.0	1.8	3.6	7.3	10.9	21.8	30.9	49.1	83.7
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.5	21.8	29.1	41.8
72.5°	0.0	0.0	1.8	3.6	3.6	10.9	10.9	16.4	21.8	27.3
75°	0.0	0.0	1.8	1.8	3.6	7.3	10.9	12.7	14.5	21.8
77.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	14.5	12.7	12.7
80°	0.0	0.0	1.8	5.5	5.5	9.1	10.9	14.5	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	12.7	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°
5339.3	0°	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3
5306.6	2.5°	5379.3	5355.7	5404.8	5399.3	5375.7	5364.8	5352.0	5341.1	5261.1
5310.2	5°	5381.1	5344.8	5404.8	5393.9	5390.2	5372.0	5361.1	5377.5	5304.7
5324.7	7.5°	5381.1	5344.8	5410.2	5413.9	5408.4	5393.9	5392.0	5402.9	5342.9
5350.2	10°	5417.5	5402.9	5457.5	5463.0	5455.7	5452.0	5443.0	5435.7	5372.0
5437.5	12.5°	5493.9	5464.8	5526.6	5543.0	5537.5	5546.6	5524.8	5535.7	5470.2
5526.6	15°	5586.6	5588.4	5635.7	5672.1	5668.5	5697.6	5664.8	5693.9	5646.6
5628.4	17.5°	5728.5	5748.5	5815.8	5870.3	5890.3	5912.1	5890.3	5899.4	5832.1
5515.7	20°	5579.3	5653.9	5977.6	6077.6	6119.5	6139.5	6103.1	6114.0	6046.7
5377.5	22.5°	5444.8	5541.2	5828.5	6141.3	6270.4	6310.4	6297.7	6295.9	6270.4
5104.7	25°	5246.5	5441.1	5570.3	5901.2	6306.8	6379.5	6386.8	6385.0	6346.8
4937.4	27.5°	5002.9	5046.5	5381.1	5583.0	6052.2	6328.6	6317.7	6264.9	6214.0
4590.0	30°	4691.9	4890.1	5041.1	5362.9	5723.0	6172.2	6172.2	6132.2	6079.4
4466.4	32.5°	4533.7	4790.1	4930.1	5046.5	5353.8	5997.6	6070.4	6028.5	5986.7
4370.0	35°	4450.0	4488.2	4815.5	4921.0	5181.1	5661.2	5955.8	5914.0	5883.0
4113.6	37.5°	4266.3	4355.5	4508.2	4790.1	4870.1	5386.6	5803.0	5781.2	5744.8
3780.8	40°	3857.2	4095.4	4330.0	4597.3	4681.0	5033.8	5617.5	5626.6	5577.5
3426.2	42.5°	3615.3	3777.2	4144.5	4324.5	4550.0	4806.5	5437.5	5452.0	5417.5
3246.1	45°	3331.6	3511.6	3769.9	4097.2	4404.6	4493.7	5119.2	5272.0	5242.9
2887.9	47.5°	3071.5	3217.0	3533.5	3864.4	4204.5	4191.8	4753.7	5041.1	5001.0
2613.3	50°	2702.4	2957.0	3106.1	3409.8	3917.2	3951.7	4364.5	4770.1	4737.4
2220.5	52.5°	2278.7	2598.7	2884.2	3162.5	3626.2	3708.0	4002.7	4493.7	4471.8
1696.7	55°	1991.3	2224.1	2546.0	2769.7	3273.4	3491.6	3731.7	4230.0	4219.1
1394.8	57.5°	1416.7	1865.8	2131.4	2444.1	2709.7	3104.3	3282.5	3693.5	3591.7
772.9	60°	960.2	1171.2	1494.9	1831.3	2009.5	2404.1	2569.6	2898.8	2871.5
461.9	62.5°	507.4	702.0	932.9	1102.0	1231.2	1614.9	1684.0	2038.6	2029.5
185.5	65°	223.7	296.4	505.6	592.9	725.6	903.8	963.8	1091.1	1060.2
90.9	67.5°	116.4	176.4	285.5	351.0	441.9	509.2	558.3	598.3	623.8
60.0	70°	70.9	129.1	176.4	243.7	303.7	358.3	396.4	451.0	483.7
30.9	72.5°	52.7	81.8	121.8	187.3	220.0	283.7	321.9	361.9	391.0
25.5	75°	29.1	54.6	98.2	147.3	176.4	231.0	265.5	292.8	301.9
14.5	77.5°	18.2	41.8	81.8	114.6	138.2	187.3	178.2	203.7	225.5
10.9	80°	12.7	30.9	63.6	94.6	96.4	120.0	141.8	163.7	178.2
7.3	82.5°	9.1	25.5	47.3	72.7	63.6	92.7	110.9	127.3	92.7
5.5	85°	7.3	18.2	23.6	43.6	36.4	65.5	56.4	54.6	36.4
3.6	87.5°	5.5	9.1	16.4	20.0	14.5	14.5	18.2	21.8	18.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
5339.3  
5206.5  
5242.9  
5273.8  
5319.3  
5412.0  
5568.4  
5773.9  
5999.4  
6188.6  
**6288.6**  
6174.0  
6059.4  
5952.1  
5839.4  
5708.5  
5566.6  
5413.9  
5246.5  
5030.1  
4742.8  
4486.4  
4231.8  
3580.7  
2873.3  
2031.3  
1047.5  
623.8  
485.6  
396.4  
296.4  
229.1  
180.0  
67.3  
36.4  
18.2  
0.0

(END OF REPORT)