

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: P638514

Luminaire Tested: **IFLD-S-SA3D-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638514  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12627.6 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G2

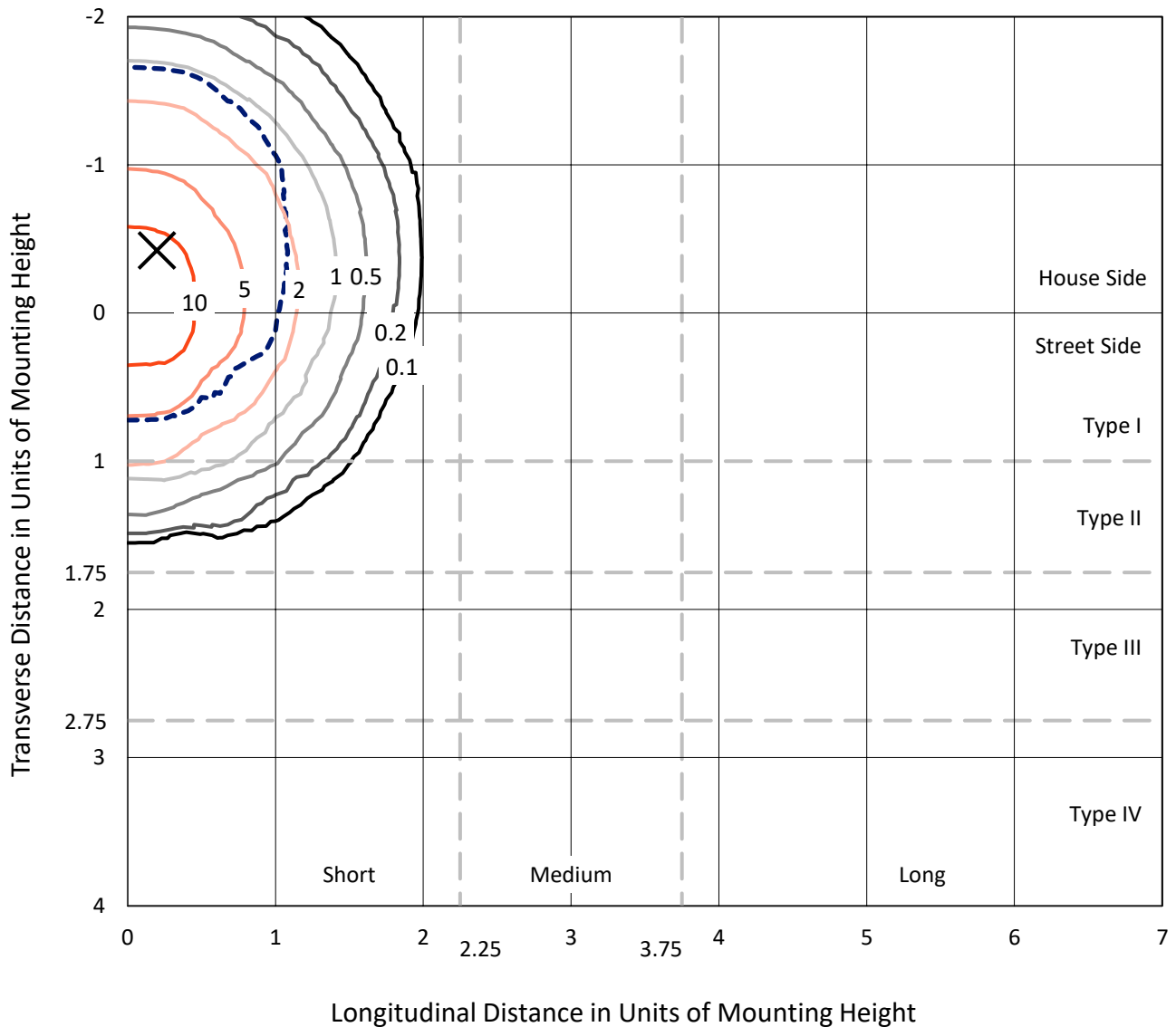
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

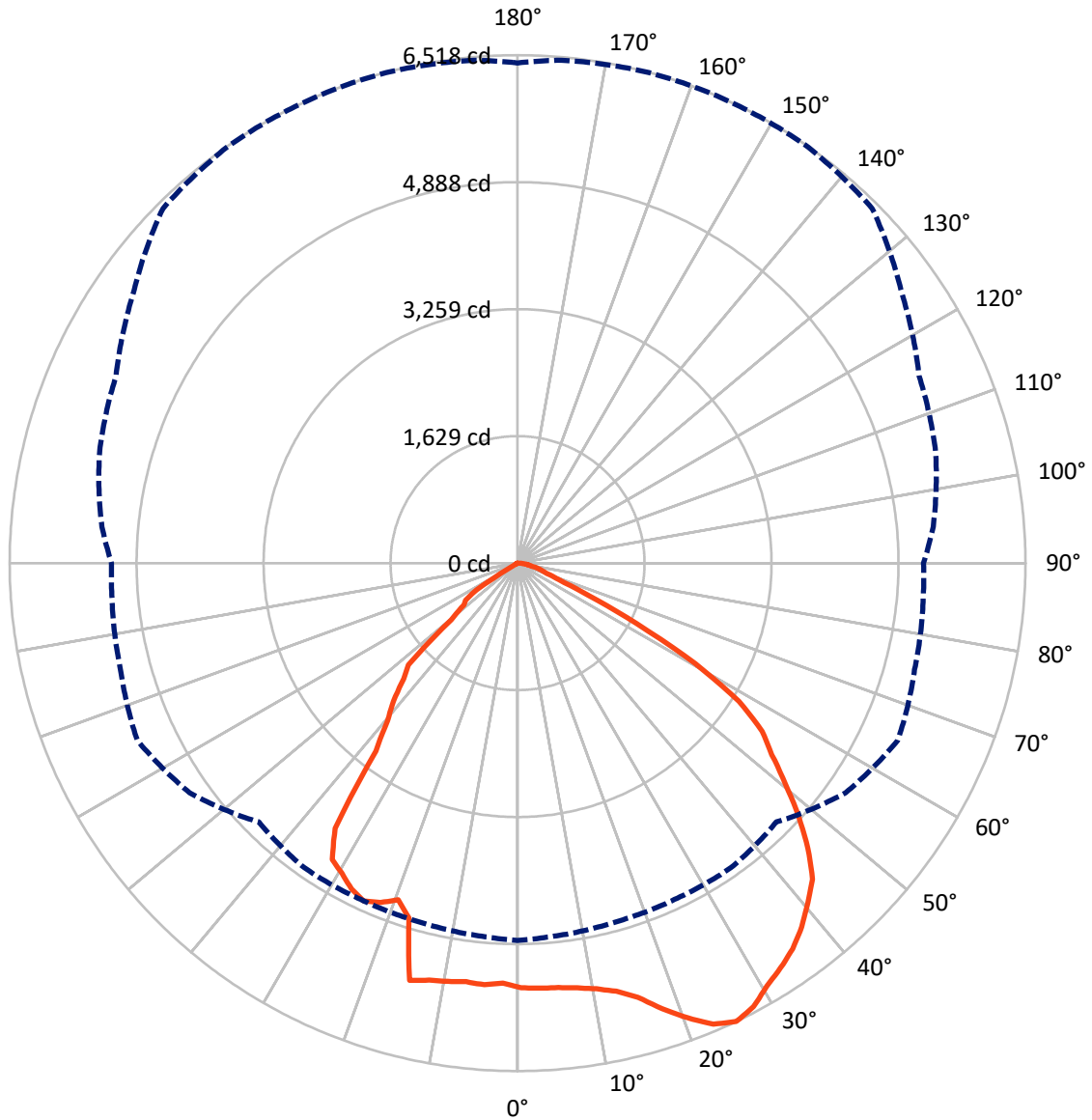
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.6 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	7817.8	0.0	7817.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	4809.8	0.0	4809.8
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	12627.6	0.0	12627.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.7	4.1
10°-20°	1596.1	12.6
20°-30°	2523.3	20.0
30°-40°	2850.3	22.6
40°-50°	2669.4	21.1
50°-60°	1840.4	14.6
60°-70°	494.5	3.9
70°-80°	103.0	0.8
80°-90°	27.9	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°	12627.6	100.0
0°-180°	12627.6	100.0



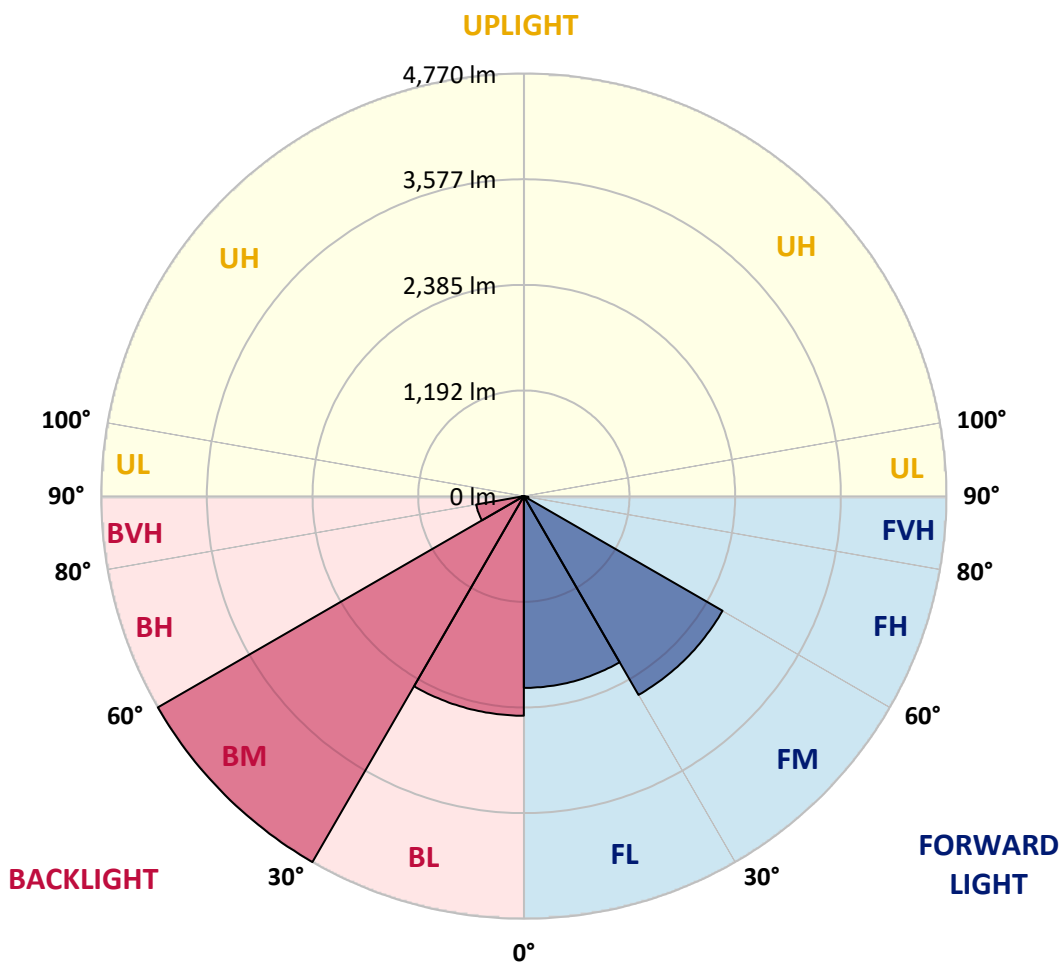
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2164.0	17.1			
FM (30°-60°)	2590.2	20.5			
FH (60°-80°)	51.9	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	2478.2	19.6	B3/2500		
BM (30°-60°)	4769.9	37.8	B3/5000		
BH (60°-80°)	545.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	24.1	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°	5448.6	5448.6	5448.6	5448.6	5448.6	5448.6	5448.6	5448.6	5448.6	5448.6
2.5°	5472.7	5437.5	5404.1	5392.9	5439.3	5489.4	5457.9	5459.7	5448.6	5469.0
5°	5513.6	5465.3	5443.0	5426.3	5433.8	5485.7	5441.2	5457.9	5439.3	5463.4
7.5°	5498.7	5465.3	5443.0	5411.5	5435.6	5496.9	5454.2	5456.0	5446.7	5469.0
10°	5489.4	5465.3	5437.5	5441.2	5469.0	5521.0	5487.6	5506.1	5493.1	5506.1
12.5°	5511.7	5485.7	5470.9	5470.9	5495.0	5554.4	5537.7	5554.4	5548.8	5559.9
15°	5302.0	5326.1	5467.2	5530.3	5578.5	5637.9	5630.5	5647.2	5650.9	5667.6
17.5°	4472.5	4448.3	4437.2	4762.0	5624.9	5808.6	5803.1	5801.2	5782.6	5769.7
20°	4581.9	4572.7	4559.7	4583.8	4680.3	5897.7	5934.8	5706.6	5639.7	5634.2
22.5°	4756.4	4741.5	4693.3	4695.1	4724.8	5127.5	5751.1	5543.2	5521.0	5508.0
25°	4841.8	4812.1	4773.1	4762.0	4771.2	4697.0	5136.8	5383.6	5274.2	5224.0
27.5°	4691.4	4693.3	4661.7	4691.4	4656.2	4322.1	4134.7	5071.9	5068.2	5045.9
30°	4578.2	4572.7	4535.6	4572.7	4329.6	3956.5	3876.7	4730.4	4691.4	4661.7
32.5°	4231.2	4234.9	4342.5	4487.3	4088.3	3793.2	3552.0	4225.6	4594.9	4578.2
35°	3026.8	3034.2	3416.5	4131.0	3722.7	3468.5	3449.9	3652.2	4442.8	4450.2
37.5°	2913.6	2913.6	2904.3	3021.2	3435.1	3336.7	3373.8	3353.4	4069.7	4088.3
40°	2831.9	2815.2	2802.2	2618.5	2388.4	3243.9	3269.9	3177.1	3847.1	3850.8
42.5°	2733.6	2715.0	2718.7	2379.1	2137.9	3013.8	2941.4	2817.1	3475.9	3479.6
45°	2553.6	2585.1	2607.4	2082.2	2063.6	2152.7	2713.2	2635.2	3225.4	3294.0
47.5°	1299.1	1326.9	2035.8	1915.2	1957.9	1913.3	2291.9	2293.8	2683.5	2911.7
50°	1178.4	1171.0	1172.9	1117.2	1807.5	1547.7	1657.2	2102.6	2149.0	2475.6
52.5°	1098.6	1096.8	983.6	874.1	1135.7	1362.1	1202.6	1521.7	1597.8	2097.0
55°	812.8	872.2	775.7	822.1	710.8	1091.2	1085.6	1373.3	1399.3	1681.3
57.5°	7.4	9.3	22.3	625.4	491.8	545.6	749.7	937.2	983.6	1310.2
60°	1.9	3.7	9.3	18.6	319.2	335.9	501.1	541.9	610.6	781.3
62.5°	0.0	0.0	3.7	9.3	16.7	137.3	159.6	174.4	269.1	399.0
65°	0.0	0.0	1.9	5.6	9.3	22.3	39.0	81.7	116.9	144.8
67.5°	0.0	0.0	1.9	3.7	7.4	11.1	22.3	31.5	50.1	85.4
70°	0.0	0.0	1.9	3.7	5.6	9.3	14.8	22.3	29.7	42.7
72.5°	0.0	0.0	1.9	3.7	3.7	11.1	11.1	16.7	22.3	27.8
75°	0.0	0.0	1.9	1.9	3.7	7.4	11.1	13.0	14.8	22.3
77.5°	0.0	0.0	1.9	3.7	5.6	7.4	9.3	14.8	13.0	13.0
80°	0.0	0.0	1.9	5.6	5.6	9.3	11.1	14.8	9.3	9.3
82.5°	0.0	0.0	1.9	7.4	5.6	18.6	18.6	20.4	7.4	7.4
85°	0.0	0.0	5.6	3.7	11.1	18.6	16.7	11.1	9.3	5.6
87.5°	0.0	0.0	1.9	1.9	3.7	5.6	13.0	11.1	3.7	3.7
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°
5448.6	0°	5448.6	5448.6	5448.6	5448.6	5448.6	5448.6	5448.6	5448.6	5448.6
5415.2	2.5°	5489.4	5465.3	5515.4	5509.8	5485.7	5474.6	5461.6	5450.5	5368.8
5418.9	5°	5491.3	5454.2	5515.4	5504.3	5500.6	5482.0	5470.9	5487.6	5413.3
5433.8	7.5°	5491.3	5454.2	5521.0	5524.7	5519.1	5504.3	5502.4	5513.6	5452.3
5459.7	10°	5528.4	5513.6	5569.2	5574.8	5567.4	5563.7	5554.4	5547.0	5482.0
5548.8	12.5°	5606.3	5576.6	5639.7	5656.4	5650.9	5660.2	5637.9	5649.0	5582.2
5639.7	15°	5701.0	5702.8	5751.1	5788.2	5784.5	5814.2	5780.8	5810.5	5762.2
5743.7	17.5°	5845.7	5866.2	5934.8	5990.5	6010.9	6033.2	6010.9	6020.2	5951.5
5628.6	20°	5693.6	5769.7	6100.0	6202.1	6244.7	6265.1	6228.0	6239.2	6170.5
5487.6	22.5°	5556.2	5654.6	5947.8	6267.0	6398.8	6439.6	6426.6	6424.7	6398.8
5209.2	25°	5354.0	5552.5	5684.3	6022.0	6435.9	6510.1	6517.5	6515.7	6476.7
5038.5	27.5°	5105.3	5149.8	5491.3	5697.3	6176.1	6458.1	6447.0	6393.2	6341.2
4684.0	30°	4787.9	4990.2	5144.3	5472.7	5840.2	6298.6	6298.6	6257.7	6203.9
4557.8	32.5°	4626.5	4888.2	5031.0	5149.8	5463.4	6120.4	6194.6	6151.9	6109.3
4459.5	35°	4541.1	4580.1	4914.1	5021.8	5287.1	5777.1	6077.7	6035.0	6003.5
4197.8	37.5°	4353.7	4444.6	4600.5	4888.2	4969.8	5496.9	5921.8	5899.6	5862.4
3858.2	40°	3936.1	4179.2	4418.6	4691.4	4776.8	5136.8	5732.5	5741.8	5691.7
3496.3	42.5°	3689.3	3854.5	4229.3	4413.1	4643.2	4904.9	5548.8	5563.7	5528.4
3312.6	45°	3399.8	3583.5	3847.1	4181.1	4494.7	4585.7	5224.0	5379.9	5350.2
2947.0	47.5°	3134.4	3282.9	3605.8	3943.6	4290.6	4277.6	4851.0	5144.3	5103.4
2666.8	50°	2757.7	3017.5	3169.7	3479.6	3997.4	4032.6	4453.9	4867.7	4834.3
2265.9	52.5°	2325.3	2651.9	2943.3	3227.2	3700.4	3784.0	4084.6	4585.7	4563.4
1731.5	55°	2032.1	2269.6	2598.1	2826.4	3340.4	3563.1	3808.1	4316.6	4305.4
1423.4	57.5°	1445.7	1904.0	2175.0	2494.2	2765.1	3167.8	3349.7	3769.1	3665.2
788.7	60°	979.9	1195.1	1525.5	1868.8	2050.6	2453.4	2622.2	2958.1	2930.3
471.4	62.5°	517.8	716.3	952.0	1124.6	1256.4	1647.9	1718.5	2080.3	2071.1
189.3	65°	228.3	302.5	515.9	605.0	740.5	922.3	983.6	1113.5	1081.9
92.8	67.5°	118.8	180.0	291.4	358.2	451.0	519.6	569.7	610.6	636.5
61.2	70°	72.4	131.8	180.0	248.7	309.9	365.6	404.6	460.2	493.6
31.5	72.5°	53.8	83.5	124.3	191.1	224.6	289.5	328.5	369.3	399.0
26.0	75°	29.7	55.7	100.2	150.3	180.0	235.7	270.9	298.8	308.1
14.8	77.5°	18.6	42.7	83.5	116.9	141.0	191.1	181.9	207.8	230.1
11.1	80°	13.0	31.5	65.0	96.5	98.4	122.5	144.8	167.0	181.9
7.4	82.5°	9.3	26.0	48.3	74.2	65.0	94.6	113.2	129.9	94.6
5.6	85°	7.4	18.6	24.1	44.5	37.1	66.8	57.5	55.7	37.1
3.7	87.5°	5.6	9.3	16.7	20.4	14.8	14.8	18.6	22.3	18.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
5448.6  
5313.1  
5350.2  
5381.8  
5428.2  
5522.8  
5682.4  
5892.1  
6122.3  
6315.3  
6417.3  
6300.4  
6183.5  
6074.0  
5958.9  
5825.3  
5680.6  
5524.7  
5354.0  
5133.1  
4839.9  
4578.2  
4318.4  
3654.1  
2932.1  
2072.9  
1068.9  
636.5  
495.5  
404.6  
302.5  
233.8  
183.7  
68.7  
37.1  
18.6  
0.0

(END OF REPORT)