

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: P638551

Luminaire Tested: **IFLD-M-SA4B-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638551  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13375.9 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

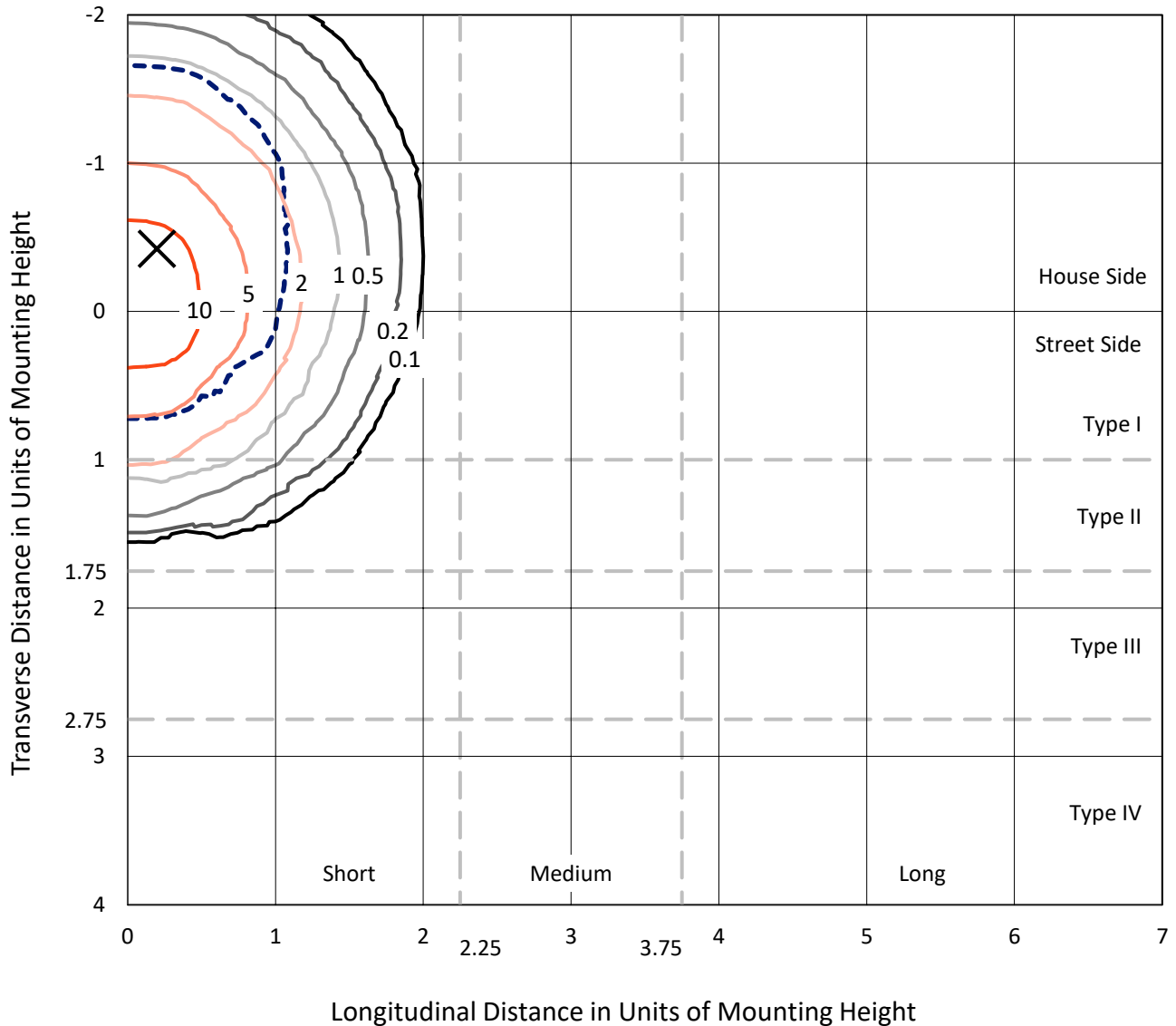
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

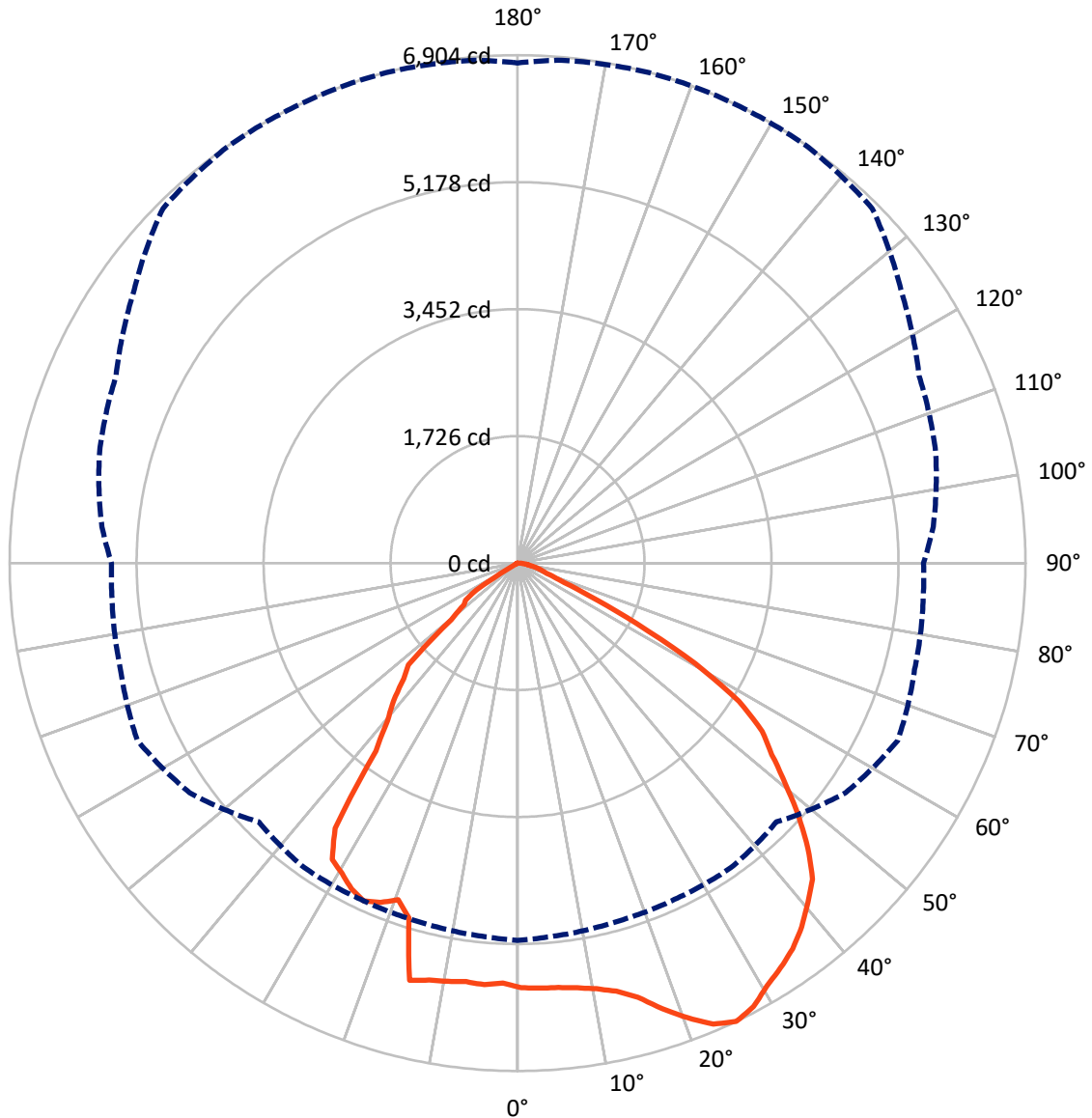
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.4 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	8281.1	0.0	8281.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5094.9	0.0	5094.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	13375.9	0.0	13375.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.7	4.1
10°-20°	1690.7	12.6
20°-30°	2672.9	20.0
30°-40°	3019.2	22.6
40°-50°	2827.6	21.1
50°-60°	1949.4	14.6
60°-70°	523.7	3.9
70°-80°	109.2	0.8
80°-90°	29.5	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°	13375.9	100.0
0°-180°	13375.9	100.0



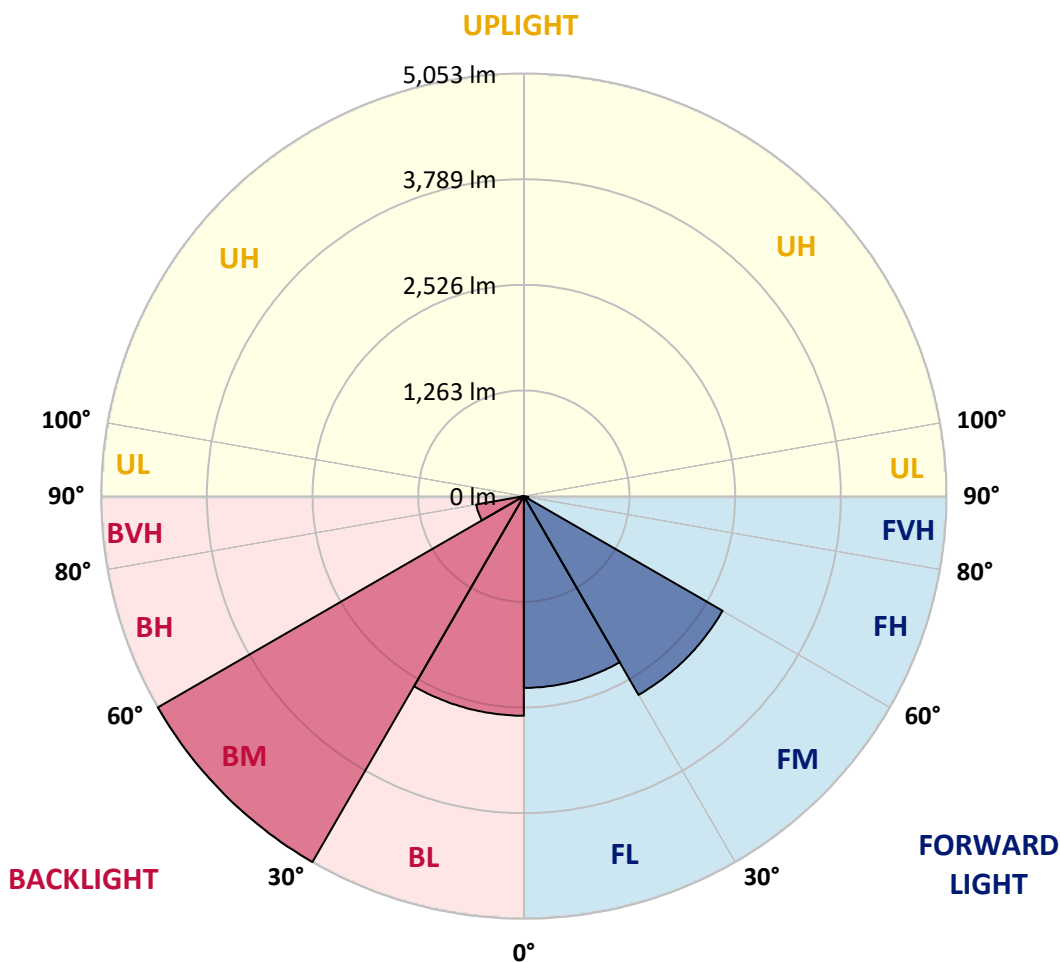
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2292.2	17.1			
FM (30°-60°)	2743.7	20.5			
FH (60°-80°)	55.0	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	2625.0	19.6	B4/5000		
BM (30°-60°)	5052.5	37.8	B4/8500		
BH (60°-80°)	577.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	25.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5
2.5°	5797.0	5759.7	5724.3	5712.5	5761.6	5814.7	5781.3	5783.3	5771.5	5793.1
5°	5840.3	5789.2	5765.6	5747.9	5755.7	5810.8	5763.6	5781.3	5761.6	5787.2
7.5°	5824.5	5789.2	5765.6	5732.1	5757.7	5822.6	5777.4	5779.3	5769.5	5793.1
10°	5814.7	5789.2	5759.7	5763.6	5793.1	5848.1	5812.7	5832.4	5818.6	5832.4
12.5°	5838.3	5810.8	5795.1	5795.1	5820.6	5883.5	5865.8	5883.5	5877.6	5889.4
15°	5616.2	5641.7	5791.1	5858.0	5909.1	5972.0	5964.1	5981.8	5985.7	6003.4
17.5°	4737.5	4711.9	4700.1	5044.1	5958.2	6152.8	6146.9	6145.0	6125.3	6111.5
20°	4853.5	4843.6	4829.9	4855.4	4957.6	6247.2	6286.5	6044.7	5973.9	5968.0
22.5°	5038.2	5022.5	4971.4	4973.4	5004.8	5431.4	6091.9	5871.7	5848.1	5834.4
25°	5128.7	5097.2	5055.9	5044.1	5054.0	4975.3	5441.2	5702.7	5586.7	5533.6
27.5°	4969.4	4971.4	4938.0	4969.4	4932.1	4578.2	4379.7	5372.4	5368.5	5344.9
30°	4849.5	4843.6	4804.3	4843.6	4586.1	4191.0	4106.5	5010.7	4969.4	4938.0
32.5°	4481.9	4485.9	4599.9	4753.2	4330.6	4018.0	3762.5	4476.0	4867.2	4849.5
35°	3206.2	3214.0	3619.0	4375.8	3943.3	3674.0	3654.3	3868.6	4706.0	4713.9
37.5°	3086.2	3086.2	3076.4	3200.3	3638.6	3534.4	3573.7	3552.1	4310.9	4330.6
40°	2999.7	2982.1	2968.3	2773.7	2529.9	3436.1	3463.7	3365.4	4075.0	4078.9
42.5°	2895.6	2875.9	2879.8	2520.1	2264.6	3192.4	3115.7	2984.0	3681.9	3685.8
45°	2704.9	2738.3	2761.9	2205.6	2185.9	2280.3	2873.9	2791.4	3416.5	3489.2
47.5°	1376.0	1405.5	2156.4	2028.7	2073.9	2026.7	2427.7	2429.7	2842.5	3084.3
50°	1248.3	1240.4	1242.4	1183.4	1914.6	1639.4	1755.4	2227.2	2276.3	2622.3
52.5°	1163.7	1161.8	1041.9	925.9	1203.0	1442.9	1273.8	1611.9	1692.5	2221.3
55°	861.0	923.9	821.7	870.8	752.9	1155.9	1150.0	1454.7	1482.2	1781.0
57.5°	7.9	9.8	23.6	662.5	520.9	577.9	794.2	992.7	1041.9	1387.8
60°	2.0	3.9	9.8	19.7	338.1	355.8	530.8	574.0	646.7	827.6
62.5°	0.0	0.0	3.9	9.8	17.7	145.5	169.1	184.8	285.0	422.6
65°	0.0	0.0	2.0	5.9	9.8	23.6	41.3	86.5	123.8	153.3
67.5°	0.0	0.0	2.0	3.9	7.9	11.8	23.6	33.4	53.1	90.4
70°	0.0	0.0	2.0	3.9	5.9	9.8	15.7	23.6	31.5	45.2
72.5°	0.0	0.0	2.0	3.9	3.9	11.8	11.8	17.7	23.6	29.5
75°	0.0	0.0	2.0	2.0	3.9	7.9	11.8	13.8	15.7	23.6
77.5°	0.0	0.0	2.0	3.9	5.9	7.9	9.8	15.7	13.8	13.8
80°	0.0	0.0	2.0	5.9	5.9	9.8	11.8	15.7	9.8	9.8
82.5°	0.0	0.0	2.0	7.9	5.9	19.7	19.7	21.6	7.9	7.9
85°	0.0	0.0	5.9	3.9	11.8	19.7	17.7	11.8	9.8	5.9
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	13.8	11.8	3.9	3.9
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°
5771.5	0°	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5
5736.1	2.5°	5814.7	5789.2	5842.2	5836.3	5810.8	5799.0	5785.2	5773.4	5686.9
5740.0	5°	5816.7	5777.4	5842.2	5830.4	5826.5	5806.8	5795.1	5812.7	5734.1
5755.7	7.5°	5816.7	5777.4	5848.1	5852.1	5846.2	5830.4	5828.5	5840.3	5775.4
5783.3	10°	5856.0	5840.3	5899.2	5905.1	5897.3	5893.3	5883.5	5875.6	5806.8
5877.6	12.5°	5938.6	5907.1	5973.9	5991.6	5985.7	5995.6	5972.0	5983.8	5913.0
5973.9	15°	6038.8	6040.8	6091.9	6131.2	6127.3	6158.7	6123.3	6154.8	6103.7
6084.0	17.5°	6192.1	6213.8	6286.5	6345.5	6367.1	6390.7	6367.1	6376.9	6304.2
5962.1	20°	6030.9	6111.5	6461.4	6569.6	6614.8	6636.4	6597.1	6608.9	6536.1
5812.7	22.5°	5885.5	5989.7	6300.3	6638.4	6777.9	6821.2	6807.4	6805.5	6777.9
5517.9	25°	5671.2	5881.5	6021.1	6378.9	6817.2	6895.9	6903.7	6901.8	6860.5
5337.0	27.5°	5407.8	5455.0	5816.7	6034.9	6542.0	6840.8	6829.0	6772.0	6717.0
4961.6	30°	5071.7	5285.9	5449.1	5797.0	6186.2	6671.8	6671.8	6628.5	6571.5
4827.9	32.5°	4900.6	5177.8	5329.2	5455.0	5787.2	6483.1	6561.7	6516.5	6471.3
4723.7	35°	4810.2	4851.5	5205.3	5319.3	5600.4	6119.4	6437.9	6392.6	6359.2
4446.5	37.5°	4611.7	4708.0	4873.1	5177.8	5264.3	5822.6	6272.7	6249.1	6209.8
4086.8	40°	4169.4	4426.9	4680.5	4969.4	5059.9	5441.2	6072.2	6082.1	6029.0
3703.5	42.5°	3907.9	4082.9	4480.0	4674.6	4918.3	5195.5	5877.6	5893.3	5856.0
3508.9	45°	3601.3	3795.9	4075.0	4428.9	4761.1	4857.4	5533.6	5698.7	5667.3
3121.6	47.5°	3320.2	3477.4	3819.5	4177.2	4544.8	4531.1	5138.5	5449.1	5405.8
2824.8	50°	2921.1	3196.3	3357.5	3685.8	4234.2	4271.6	4717.8	5156.2	5120.8
2400.2	52.5°	2463.1	2809.1	3117.7	3418.5	3919.7	4008.2	4326.6	4857.4	4833.8
1834.1	55°	2152.5	2404.1	2752.1	2993.8	3538.4	3774.3	4033.7	4572.4	4560.6
1507.7	57.5°	1531.3	2016.9	2303.9	2642.0	2929.0	3355.5	3548.2	3992.5	3882.4
835.4	60°	1037.9	1265.9	1615.9	1979.5	2172.2	2598.7	2777.6	3133.4	3103.9
499.3	62.5°	548.4	758.8	1008.4	1191.2	1330.8	1745.6	1820.3	2203.6	2193.8
200.5	65°	241.8	320.4	546.5	640.8	784.3	977.0	1041.9	1179.5	1146.0
98.3	67.5°	125.8	190.7	308.6	379.4	477.7	550.4	603.5	646.7	674.3
64.9	70°	76.7	139.6	190.7	263.4	328.3	387.3	428.5	487.5	522.9
33.4	72.5°	57.0	88.5	131.7	202.5	237.9	306.7	347.9	391.2	422.6
27.5	75°	31.5	59.0	106.2	159.2	190.7	249.7	287.0	316.5	326.3
15.7	77.5°	19.7	45.2	88.5	123.8	149.4	202.5	192.6	220.2	243.8
11.8	80°	13.8	33.4	68.8	102.2	104.2	129.7	153.3	176.9	192.6
7.9	82.5°	9.8	27.5	51.1	78.6	68.8	100.3	119.9	137.6	100.3
5.9	85°	7.9	19.7	25.6	47.2	39.3	70.8	60.9	59.0	39.3
3.9	87.5°	5.9	9.8	17.7	21.6	15.7	15.7	19.7	23.6	19.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
5771.5  
5628.0  
5667.3  
5700.7  
5749.8  
5850.1  
6019.1  
6241.3  
6485.0  
6689.5  
6797.6  
6673.7  
6549.9  
6433.9  
6312.0  
6170.5  
6017.2  
5852.1  
5671.2  
5437.3  
5126.7  
4849.5  
4574.3  
3870.6  
3105.9  
2195.8  
1132.3  
674.3  
524.9  
428.5  
320.4  
247.7  
194.6  
72.7  
39.3  
19.7  
0.0

(END OF REPORT)