

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: P638560

Luminaire Tested: **IFLD-L-SA8A-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638560  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20062.1 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

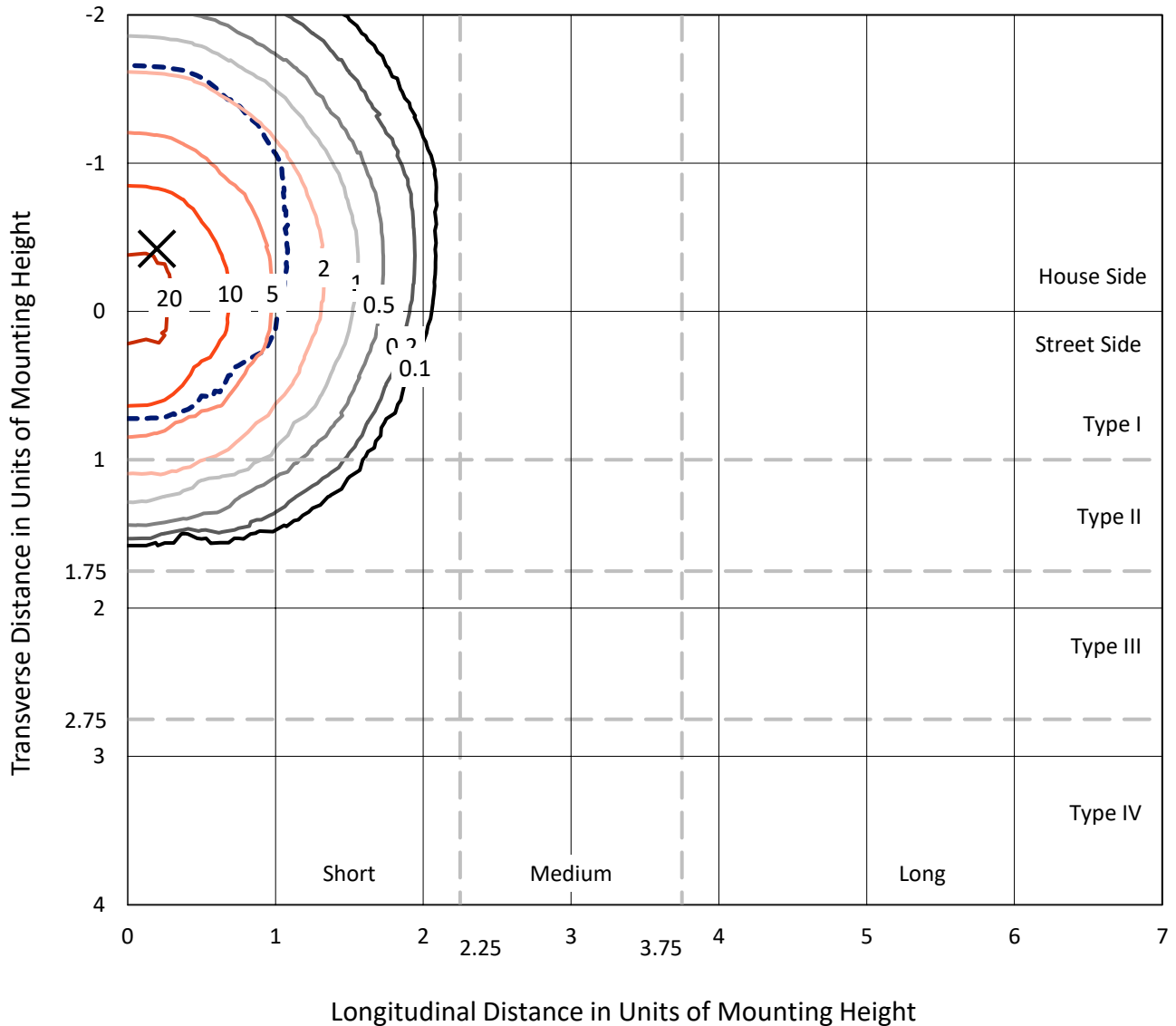
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

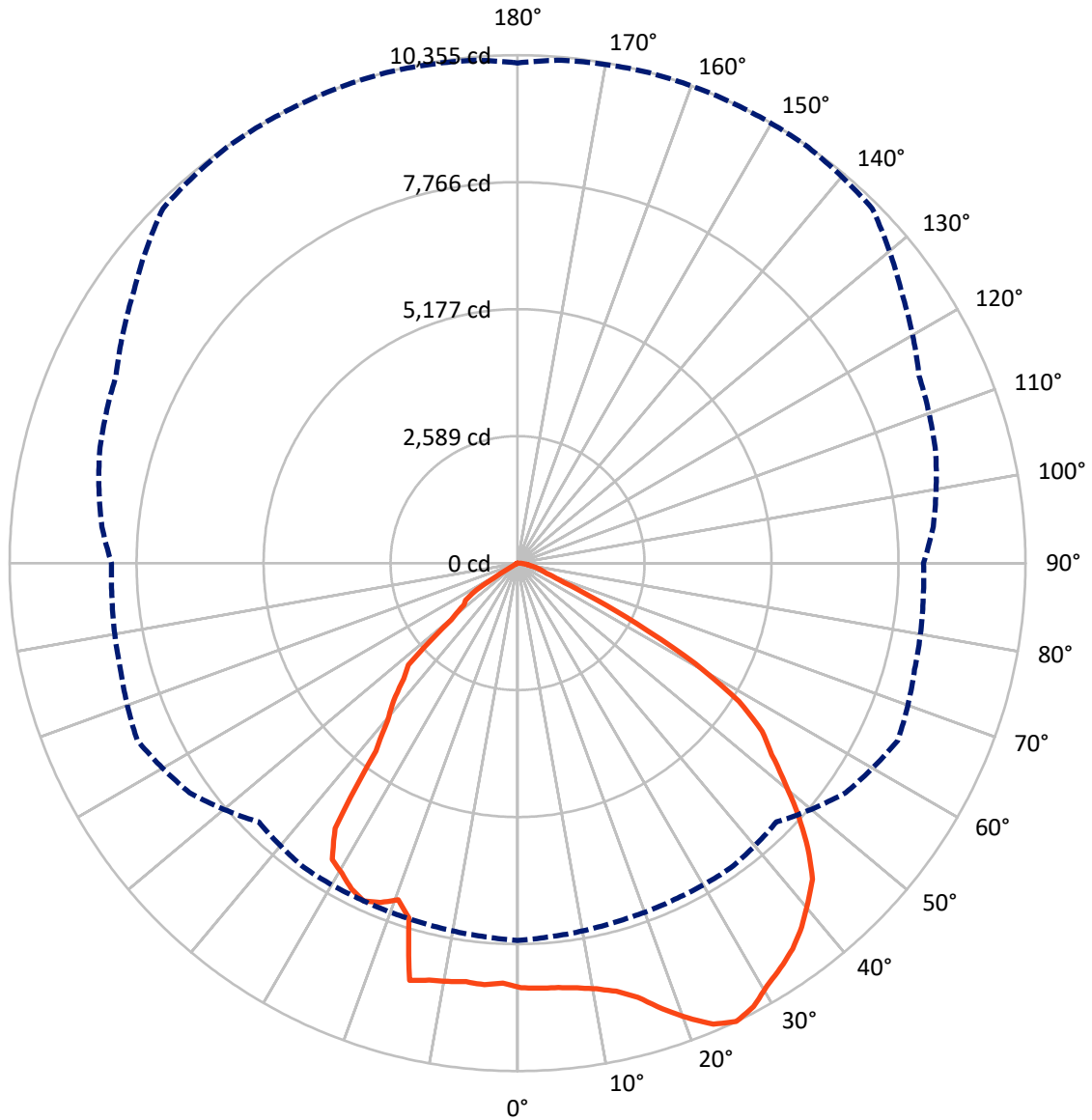
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.6 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	12420.5	0.0	12420.5
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	7641.6	0.0	7641.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	20062.1	0.0	20062.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	830.5	4.1
10°-20°	2535.8	12.6
20°-30°	4009.0	20.0
30°-40°	4528.5	22.6
40°-50°	4241.0	21.1
50°-60°	2923.9	14.6
60°-70°	785.5	3.9
70°-80°	163.7	0.8
80°-90°	44.3	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°	20062.1	100.0
0°-180°	20062.1	100.0



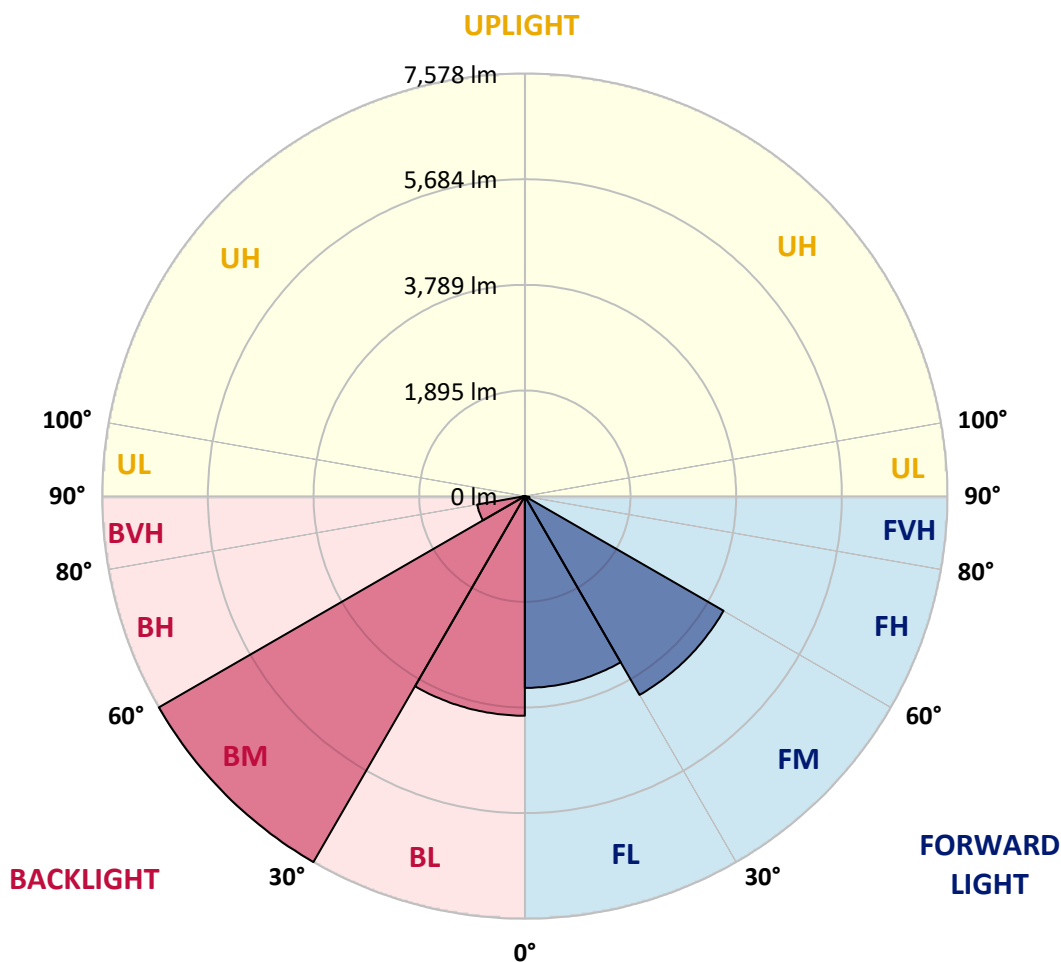
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3438.0	17.1			
FM (30°-60°)	4115.2	20.5			
FH (60°-80°)	82.5	0.4			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	3937.2	19.6	B4/5000		
BM (30°-60°)	7578.2	37.8	B4/8500		
BH (60°-80°)	866.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	38.3	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°	8656.5	8656.5	8656.5	8656.5	8656.5	8656.5	8656.5	8656.5	8656.5	8656.5
2.5°	8694.8	8638.8	8585.7	8568.0	8641.7	8721.3	8671.2	8674.1	8656.5	8688.9
5°	8759.6	8683.0	8647.6	8621.1	8632.9	8715.4	8644.7	8671.2	8641.7	8680.0
7.5°	8736.1	8683.0	8647.6	8597.5	8635.8	8733.1	8665.3	8668.3	8653.5	8688.9
10°	8721.3	8683.0	8638.8	8644.7	8688.9	8771.4	8718.4	8747.9	8727.2	8747.9
12.5°	8756.7	8715.4	8691.8	8691.8	8730.2	8824.5	8798.0	8824.5	8815.7	8833.4
15°	8423.5	8461.9	8685.9	8786.2	8862.8	8957.2	8945.4	8971.9	8977.8	9004.4
17.5°	7105.6	7067.3	7049.6	7565.6	8936.6	9228.4	9219.6	9216.6	9187.2	9166.5
20°	7279.6	7264.8	7244.2	7282.5	7435.8	9370.0	9428.9	9066.3	8960.1	8951.3
22.5°	7556.7	7533.1	7456.5	7459.4	7506.6	8146.4	9137.0	8806.8	8771.4	8750.8
25°	7692.3	7645.2	7583.2	7565.6	7580.3	7462.4	8161.1	8553.3	8379.3	8299.7
27.5°	7453.5	7456.5	7406.3	7453.5	7397.5	6866.8	6569.0	8057.9	8052.0	8016.7
30°	7273.7	7264.8	7205.9	7264.8	6878.6	6286.0	6159.2	7515.4	7453.5	7406.3
32.5°	6722.3	6728.2	6899.2	7129.2	6495.3	6026.5	5643.2	6713.5	7300.2	7273.7
35°	4808.8	4820.6	5428.0	6563.1	5914.5	5510.5	5481.0	5802.4	7058.4	7070.2
37.5°	4629.0	4629.0	4614.2	4800.0	5457.5	5301.2	5360.2	5327.7	6465.8	6495.3
40°	4499.2	4472.7	4452.1	4160.2	3794.6	5153.8	5195.1	5047.6	6112.0	6117.9
42.5°	4343.0	4313.5	4319.4	3779.8	3396.5	4788.2	4673.2	4475.6	5522.3	5528.2
45°	4057.0	4107.1	4142.5	3308.1	3278.6	3420.1	4310.5	4186.7	5124.3	5233.4
47.5°	2063.9	2108.1	3234.4	3042.7	3110.5	3039.8	3641.3	3644.2	4263.4	4626.0
50°	1872.2	1860.4	1863.4	1774.9	2871.7	2459.0	2632.9	3340.5	3414.2	3933.1
52.5°	1745.4	1742.5	1562.6	1388.7	1804.4	2164.1	1910.6	2417.7	2538.6	3331.7
55°	1291.4	1385.7	1232.4	1306.1	1129.2	1733.7	1724.8	2181.8	2223.1	2671.2
57.5°	11.8	14.7	35.4	993.6	781.3	866.8	1191.1	1488.9	1562.6	2081.6
60°	2.9	5.9	14.7	29.5	507.1	533.7	796.1	860.9	970.0	1241.3
62.5°	0.0	0.0	5.9	14.7	26.5	218.2	253.6	277.1	427.5	633.9
65°	0.0	0.0	2.9	8.8	14.7	35.4	61.9	129.7	185.7	230.0
67.5°	0.0	0.0	2.9	5.9	11.8	17.7	35.4	50.1	79.6	135.6
70°	0.0	0.0	2.9	5.9	8.8	14.7	23.6	35.4	47.2	67.8
72.5°	0.0	0.0	2.9	5.9	5.9	17.7	17.7	26.5	35.4	44.2
75°	0.0	0.0	2.9	2.9	5.9	11.8	17.7	20.6	23.6	35.4
77.5°	0.0	0.0	2.9	5.9	8.8	11.8	14.7	23.6	20.6	20.6
80°	0.0	0.0	2.9	8.8	8.8	14.7	17.7	23.6	14.7	14.7
82.5°	0.0	0.0	2.9	11.8	8.8	29.5	29.5	32.4	11.8	11.8
85°	0.0	0.0	8.8	5.9	17.7	29.5	26.5	17.7	14.7	8.8
87.5°	0.0	0.0	2.9	2.9	5.9	8.8	20.6	17.7	5.9	5.9
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°
8656.5	0°	8656.5	8656.5	8656.5	8656.5	8656.5	8656.5	8656.5	8656.5	8656.5
8603.4	2.5°	8721.3	8683.0	8762.6	8753.8	8715.4	8697.7	8677.1	8659.4	8529.7
8609.3	5°	8724.3	8665.3	8762.6	8744.9	8739.0	8709.5	8691.8	8718.4	8600.4
8632.9	7.5°	8724.3	8665.3	8771.4	8777.3	8768.5	8744.9	8742.0	8759.6	8662.4
8674.1	10°	8783.2	8759.6	8848.1	8856.9	8845.2	8839.3	8824.5	8812.7	8709.5
8815.7	12.5°	8907.1	8859.9	8960.1	8986.7	8977.8	8992.6	8957.2	8974.9	8868.7
8960.1	15°	9057.4	9060.4	9137.0	9196.0	9190.1	9237.3	9184.2	9231.4	9154.7
9125.2	17.5°	9287.4	9319.8	9428.9	9517.4	9549.8	9585.2	9549.8	9564.6	9455.5
8942.4	20°	9045.6	9166.5	9691.3	9853.5	9921.3	9953.7	9894.8	9912.5	9803.4
8718.4	22.5°	8827.5	8983.7	9449.6	9956.7	10166.0	10230.9	10210.3	10207.3	10166.0
8276.1	25°	8506.1	8821.6	9030.9	9567.5	10225.0	10342.9	10354.7	10351.8	10289.9
8004.9	27.5°	8111.0	8181.8	8724.3	9051.5	9812.2	10260.4	10242.7	10157.2	10074.6
7441.7	30°	7606.8	7928.2	8172.9	8694.8	9278.6	10006.8	10006.8	9942.0	9856.4
7241.2	32.5°	7350.3	7766.0	7993.1	8181.8	8680.0	9723.8	9841.7	9773.9	9706.1
7085.0	35°	7214.7	7276.6	7807.3	7978.3	8399.9	9178.3	9656.0	9588.1	9538.0
6669.2	37.5°	6916.9	7061.4	7309.0	7766.0	7895.8	8733.1	9408.3	9372.9	9313.9
6129.7	40°	6253.5	6639.8	7020.1	7453.5	7589.1	8161.1	9107.6	9122.3	9042.7
5554.8	42.5°	5861.4	6123.8	6719.4	7011.3	7376.9	7792.6	8815.7	8839.3	8783.2
5262.9	45°	5401.4	5693.3	6112.0	6642.7	7141.0	7285.5	8299.7	8547.4	8500.2
4682.0	47.5°	4979.8	5215.7	5728.7	6265.3	6816.7	6796.0	7707.1	8172.9	8108.1
4236.8	50°	4381.3	4794.1	5035.8	5528.2	6350.8	6406.8	7076.1	7733.6	7680.5
3600.0	52.5°	3694.3	4213.2	4676.1	5127.2	5879.1	6011.8	6489.4	7285.5	7250.1
2750.8	55°	3228.5	3605.9	4127.7	4490.4	5307.1	5660.9	6050.1	6857.9	6840.3
2261.4	57.5°	2296.8	3025.0	3455.5	3962.6	4393.1	5032.9	5321.8	5988.2	5823.1
1253.1	60°	1556.7	1898.8	2423.6	2969.0	3258.0	3897.8	4166.1	4699.7	4655.5
748.9	62.5°	822.6	1138.1	1512.5	1786.7	1996.1	2618.2	2730.2	3305.1	3290.4
300.7	65°	362.7	480.6	819.7	961.2	1176.4	1465.3	1562.6	1769.0	1718.9
147.4	67.5°	188.7	286.0	462.9	569.0	716.5	825.5	905.2	970.0	1011.3
97.3	70°	115.0	209.3	286.0	395.1	492.4	580.8	642.7	731.2	784.3
50.1	72.5°	85.5	132.7	197.5	303.7	356.8	459.9	521.9	586.7	633.9
41.3	75°	47.2	88.5	159.2	238.8	286.0	374.4	430.5	474.7	489.4
23.6	77.5°	29.5	67.8	132.7	185.7	224.1	303.7	288.9	330.2	365.6
17.7	80°	20.6	50.1	103.2	153.3	156.3	194.6	230.0	265.4	288.9
11.8	82.5°	14.7	41.3	76.7	117.9	103.2	150.4	179.9	206.4	150.4
8.8	85°	11.8	29.5	38.3	70.8	59.0	106.1	91.4	88.5	59.0
5.9	87.5°	8.8	14.7	26.5	32.4	23.6	23.6	29.5	35.4	29.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
8656.5  
8441.2  
8500.2  
8550.3  
8624.0  
8774.4  
9028.0  
9361.1  
9726.7  
10033.4  
*10195.5*  
10009.8  
9824.0  
9650.1  
9467.3  
9255.0  
9025.0  
8777.3  
8506.1  
8155.2  
7689.4  
7273.7  
6860.9  
5805.4  
4658.4  
3293.3  
1698.3  
1011.3  
787.2  
642.7  
480.6  
371.5  
291.9  
109.1  
59.0  
29.5  
0.0

(END OF REPORT)