

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: P479318

Luminaire Tested: **IFLD-L-SA8B-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479318  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

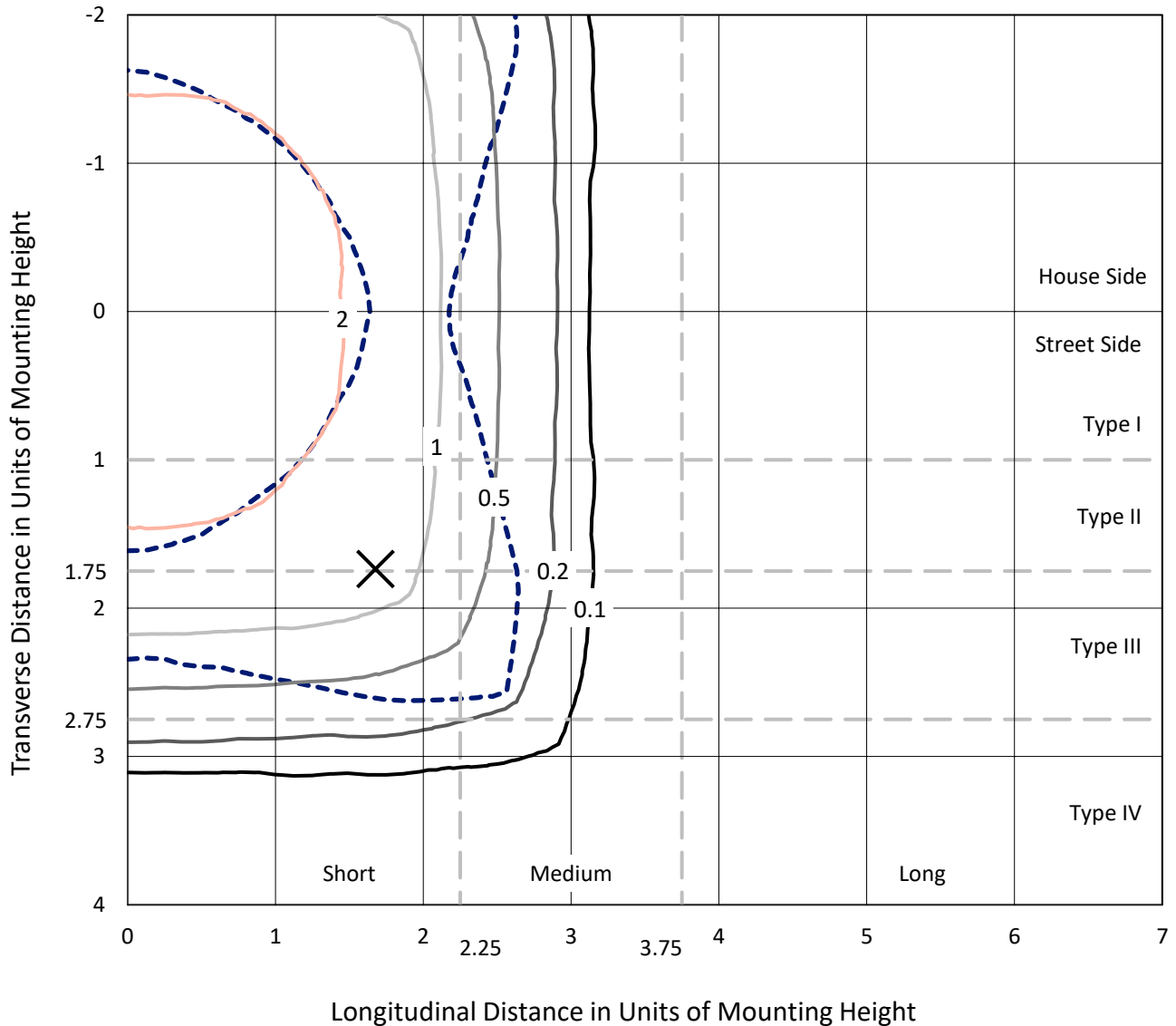
Lumens per Lamp: N/A  
Luminaire Lumens: 40518.8 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 320  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

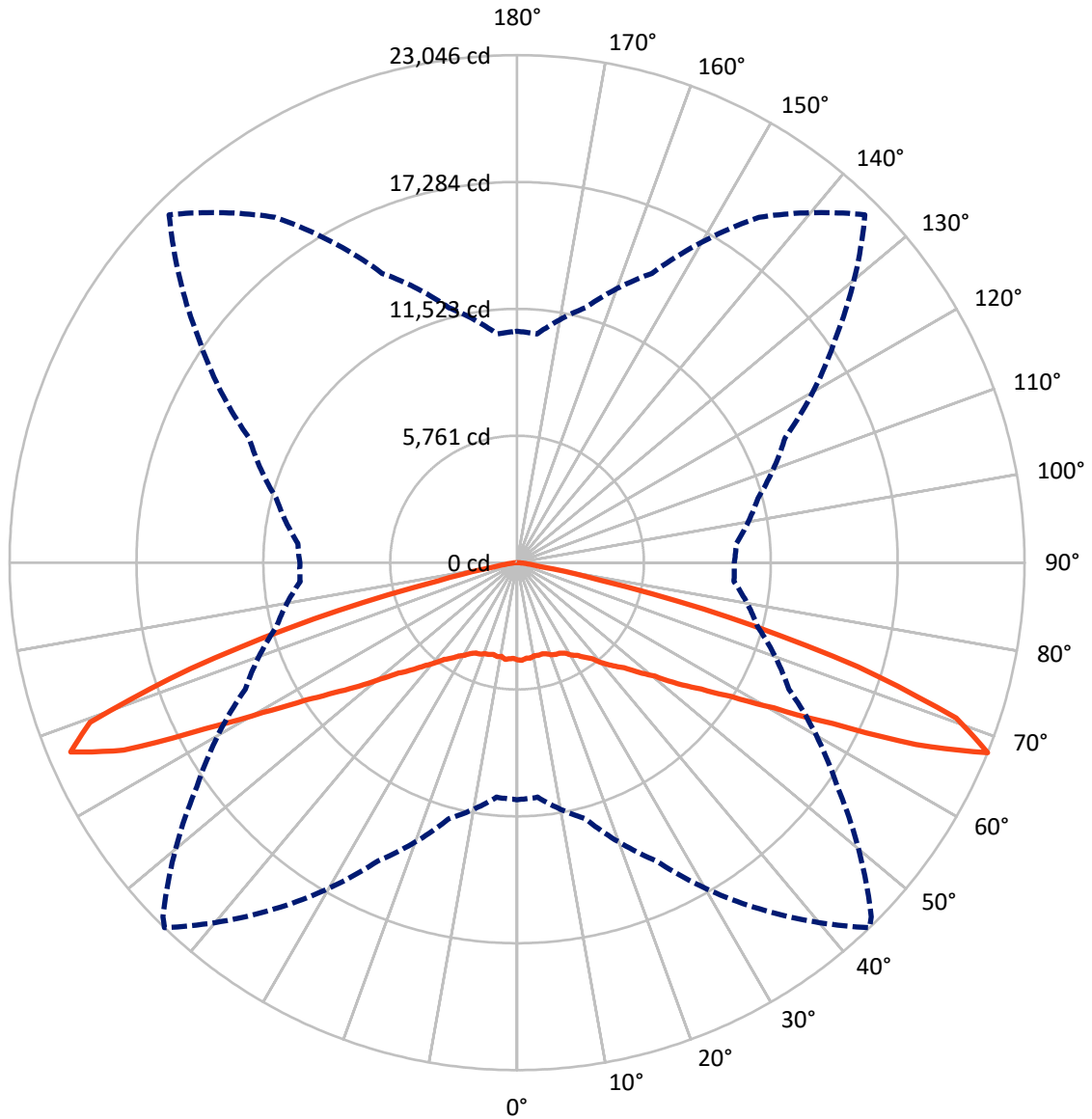
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P479318  
CATALOG NUMBER: IFLD-L-SA8B-735-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479318

CATALOG NUMBER: IFLD-L-SA8B-735-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20207.5	0.0	20207.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	20311.3	0.0	20311.3
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	40518.8	0.0	40518.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.8	1.0
10°-20°	1223.6	3.0
20°-30°	2080.8	5.1
30°-40°	3299.2	8.1
40°-50°	5379.6	13.3
50°-60°	9187.7	22.7
60°-70°	13974.3	34.5
70°-80°	4710.2	11.6
80°-90°	244.6	0.6
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°	40518.8	100.0
0°-180°	40518.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479318

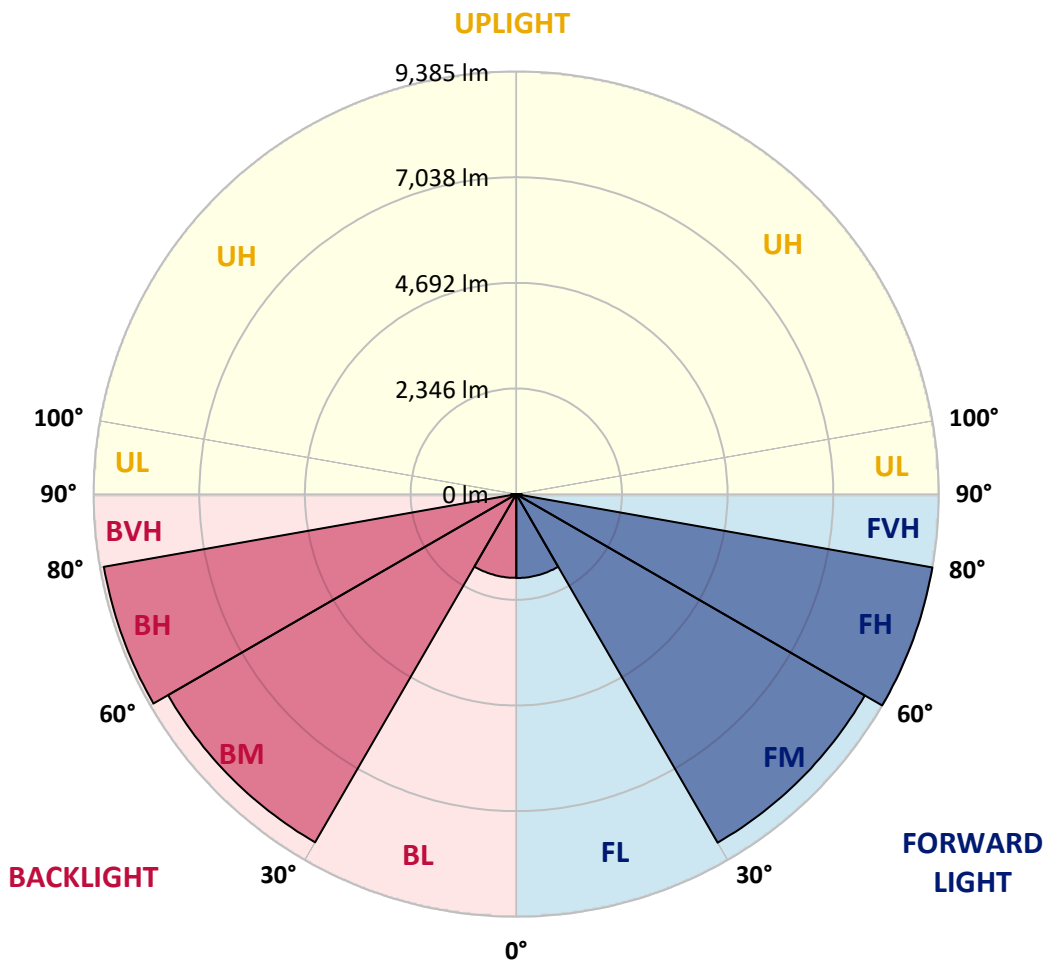
CATALOG NUMBER: IFLD-L-SA8B-735-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1863.5	4.6			
FM (30°-60°)	8938.1	22.1			
FH (60°-80°)	9384.6	23.2			G4/12000
FVH (80°-90°)	125.1	0.3			G2/225
BL (0°-30°)	1859.7	4.6	B3/2500		
BM (30°-60°)	8928.4	22.0	B5		
BH (60°-80°)	9300.0	23.0	B5		G4/12000
BVH (80°-90°)	119.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0
2.5°	4324.2	4375.1	4412.1	4407.5	4421.4	4435.2	4416.7	4444.5	4426.0	4458.4	4476.9
5°	4407.5	4393.6	4398.2	4370.5	4435.2	4361.2	4361.2	4398.2	4444.5	4389.0	4421.4
7.5°	4356.6	4347.4	4324.2	4365.9	4379.7	4379.7	4416.7	4347.4	4426.0	4444.5	4449.1
10°	4301.1	4250.2	4319.6	4361.2	4370.5	4296.5	4328.9	4347.4	4324.2	4347.4	4361.2
12.5°	4254.9	4282.6	4282.6	4282.6	4268.7	4319.6	4352.0	4347.4	4301.1	4342.7	4268.7
15°	4250.2	4236.4	4278.0	4315.0	4291.9	4301.1	4315.0	4356.6	4268.7	4287.2	4287.2
17.5°	4245.6	4264.1	4278.0	4273.4	4352.0	4352.0	4338.1	4310.4	4379.7	4342.7	4291.9
20°	4264.1	4250.2	4287.2	4301.1	4356.6	4467.6	4426.0	4402.9	4365.9	4319.6	4319.6
22.5°	4287.2	4278.0	4328.9	4389.0	4495.4	4523.1	4518.5	4490.7	4426.0	4370.5	4361.2
25°	4370.5	4287.2	4342.7	4458.4	4495.4	4550.8	4587.8	4550.8	4463.0	4476.9	4393.6
27.5°	4495.4	4481.5	4555.5	4634.1	4601.7	4652.6	4620.2	4648.0	4652.6	4583.2	4500.0
30°	4643.3	4601.7	4648.0	4800.6	4814.5	4870.0	4814.5	4740.5	4763.6	4703.5	4661.8
32.5°	4856.1	4842.2	4930.1	5031.8	5050.3	5022.6	4994.8	5036.5	4939.3	4893.1	4819.1
35°	4994.8	5055.0	5161.3	5240.0	5300.1	5272.3	5286.2	5244.6	5267.7	5170.6	5138.2
37.5°	5406.4	5383.3	5406.4	5540.6	5554.4	5540.6	5554.4	5600.7	5568.3	5485.1	5401.8
40°	5794.9	5757.9	5813.4	5966.1	5956.8	6003.1	5910.6	5961.4	5961.4	5804.2	5771.8
42.5°	6086.3	6211.2	6275.9	6400.8	6447.0	6405.4	6386.9	6396.2	6497.9	6312.9	6243.5
45°	6687.5	6682.9	6877.1	6946.5	6817.0	6807.8	6770.8	6881.8	6951.1	6844.8	6817.0
47.5°	7339.6	7372.0	7483.0	7510.8	7589.4	7446.0	7446.0	7459.9	7705.0	7455.3	7325.8
50°	7927.0	7968.6	8190.6	8408.0	8260.0	8107.4	8167.5	8241.5	8375.6	8139.7	8028.7
52.5°	8639.2	8865.8	9013.8	9129.4	9235.8	9129.4	8990.7	9074.0	9337.6	9023.1	8884.3
55°	9665.9	9846.3	9985.0	10197.8	10285.7	10142.3	10128.4	10119.2	10267.2	9934.2	9744.6
57.5°	10812.9	10738.9	10960.9	11289.3	11608.4	11469.6	11428.0	11437.2	11474.2	11002.5	10859.1
60°	12237.3	12320.6	12584.2	12871.0	13208.6	13402.8	13129.9	12972.7	13005.1	12362.2	12140.2
62.5°	13051.3	13236.3	13832.9	14818.0	15497.9	16103.7	16145.3	15123.3	14438.8	13190.1	12246.6
65°	12658.2	12630.5	13754.3	15576.5	18152.5	19914.6	19651.0	17172.1	14781.0	12797.0	11529.7
67.5°	10766.6	10692.6	12052.4	14942.9	19197.7	23045.6	22745.0	17750.2	13624.8	11321.6	9887.9
70°	6937.3	6918.8	8394.1	11391.0	17139.7	21158.7	21269.7	16122.2	11090.4	8292.4	6872.5
72.5°	2520.5	2673.2	3528.8	6123.3	11640.7	16187.0	16256.3	11936.7	6377.7	3834.0	2825.8
75°	929.6	957.3	1114.6	1988.7	5304.7	9938.8	10197.8	5790.3	2266.2	1248.7	1017.5
77.5°	536.5	541.1	596.6	740.0	1572.4	3880.2	4037.5	1757.4	878.7	666.0	615.1
80°	365.4	360.7	420.9	481.0	629.0	1100.7	1170.1	735.4	555.0	462.5	388.5
82.5°	212.7	226.6	309.9	342.2	383.9	485.6	494.9	457.9	416.2	342.2	254.4
85°	129.5	106.4	171.1	189.6	222.0	217.4	217.4	249.7	268.2	240.5	143.4
87.5°	32.4	32.4	41.6	46.2	60.1	46.2	50.9	97.1	129.5	120.2	74.0
90°	0.0	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°	180°
0°	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0
2.5°	4435.2	4421.4	4430.6	4481.5	4449.1	4352.0	4375.1	4426.0	4384.4	4361.2	4356.6
5°	4416.7	4444.5	4412.1	4421.4	4453.7	4375.1	4389.0	4453.7	4426.0	4435.2	4384.4
7.5°	4421.4	4435.2	4407.5	4365.9	4365.9	4430.6	4393.6	4402.9	4361.2	4430.6	4338.1
10°	4393.6	4356.6	4324.2	4347.4	4338.1	4319.6	4305.7	4333.5	4291.9	4352.0	4287.2
12.5°	4310.4	4319.6	4310.4	4301.1	4319.6	4365.9	4291.9	4301.1	4236.4	4245.6	4278.0
15°	4278.0	4305.7	4296.5	4347.4	4370.5	4301.1	4356.6	4301.1	4250.2	4222.5	4273.4
17.5°	4291.9	4333.5	4319.6	4356.6	4315.0	4365.9	4375.1	4352.0	4291.9	4268.7	4291.9
20°	4305.7	4291.9	4310.4	4375.1	4435.2	4384.4	4384.4	4370.5	4315.0	4282.6	4282.6
22.5°	4338.1	4315.0	4342.7	4393.6	4412.1	4490.7	4421.4	4389.0	4296.5	4213.2	4291.9
25°	4402.9	4416.7	4435.2	4416.7	4518.5	4509.2	4500.0	4476.9	4333.5	4338.1	4324.2
27.5°	4527.7	4449.1	4472.2	4583.2	4597.1	4634.1	4587.8	4629.5	4476.9	4481.5	4389.0
30°	4680.3	4597.1	4671.1	4768.2	4763.6	4833.0	4809.8	4819.1	4712.7	4652.6	4527.7
32.5°	4846.8	4837.6	4883.8	4944.0	4967.1	5004.1	4999.5	4999.5	4934.7	4777.5	4800.6
35°	5031.8	5096.6	5152.1	5216.8	5226.1	5272.3	5207.6	5216.8	5152.1	5036.5	5073.5
37.5°	5397.2	5392.6	5452.7	5531.3	5540.6	5503.6	5554.4	5531.3	5443.4	5364.8	5304.7
40°	5822.7	5730.2	5785.7	5970.7	5984.6	5919.8	5915.2	5910.6	5845.8	5674.7	5637.7
42.5°	6192.7	6312.9	6303.7	6363.8	6322.2	6289.8	6405.4	6340.7	6289.8	6109.4	6077.0
45°	6669.0	6706.0	6826.3	7020.5	6821.6	6821.6	6900.3	6849.4	6821.6	6687.5	6562.7
47.5°	7261.0	7293.4	7533.9	7547.8	7418.3	7330.4	7575.5	7584.7	7469.1	7367.4	7214.8
50°	7954.7	7968.6	8186.0	8408.0	8264.6	8098.1	8347.8	8445.0	8186.0	8047.2	7857.6
52.5°	8717.8	8676.2	8856.6	9272.8	9134.1	9083.2	9351.4	9374.6	9023.1	8805.7	8856.6
55°	9596.6	9541.1	10031.3	10313.4	10225.5	10133.0	10253.3	10308.8	10026.7	9670.6	9795.4
57.5°	10734.3	10762.0	11007.1	11284.6	11428.0	11451.1	11506.6	11451.1	11164.4	10803.6	10688.0
60°	11872.0	11955.2	12431.6	12954.2	13000.4	13407.4	13333.4	13055.9	12649.0	12135.6	12158.7
62.5°	12292.8	12223.5	12991.2	14267.7	15354.5	16099.1	15770.7	14785.6	13842.2	12907.9	12977.3
65°	11446.5	11617.6	12662.8	14660.8	17019.4	19965.5	18217.3	15493.2	13587.8	12380.7	12246.6
67.5°	9864.8	9994.3	11321.6	13430.6	17616.0	22342.6	19142.2	14494.3	11983.0	10419.8	10503.0
70°	6872.5	6937.3	8236.9	11002.5	15974.2	21084.7	17269.2	11132.0	8273.9	6595.0	6687.5
72.5°	2765.7	2922.9	3778.5	6627.4	11793.4	16020.5	11626.9	5841.2	3431.6	2552.9	2317.0
75°	1022.1	1026.7	1207.1	2280.0	5600.7	10068.3	5244.6	1877.7	1096.1	897.2	855.6
77.5°	592.0	587.4	629.0	823.2	1623.3	3931.1	1489.2	735.4	596.6	536.5	513.4
80°	370.0	365.4	430.1	545.7	712.2	1077.6	629.0	457.9	402.4	346.9	346.9
82.5°	235.9	240.5	337.6	402.4	434.7	476.4	365.4	323.7	300.6	198.9	194.2
85°	152.6	138.7	235.9	268.2	240.5	212.7	203.5	171.1	157.2	97.1	106.4
87.5°	69.4	74.0	120.2	134.1	87.9	50.9	50.9	37.0	37.0	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)