

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: P481186

Luminaire Tested: **IFLD-L-SA7C-727-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481186  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-727-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

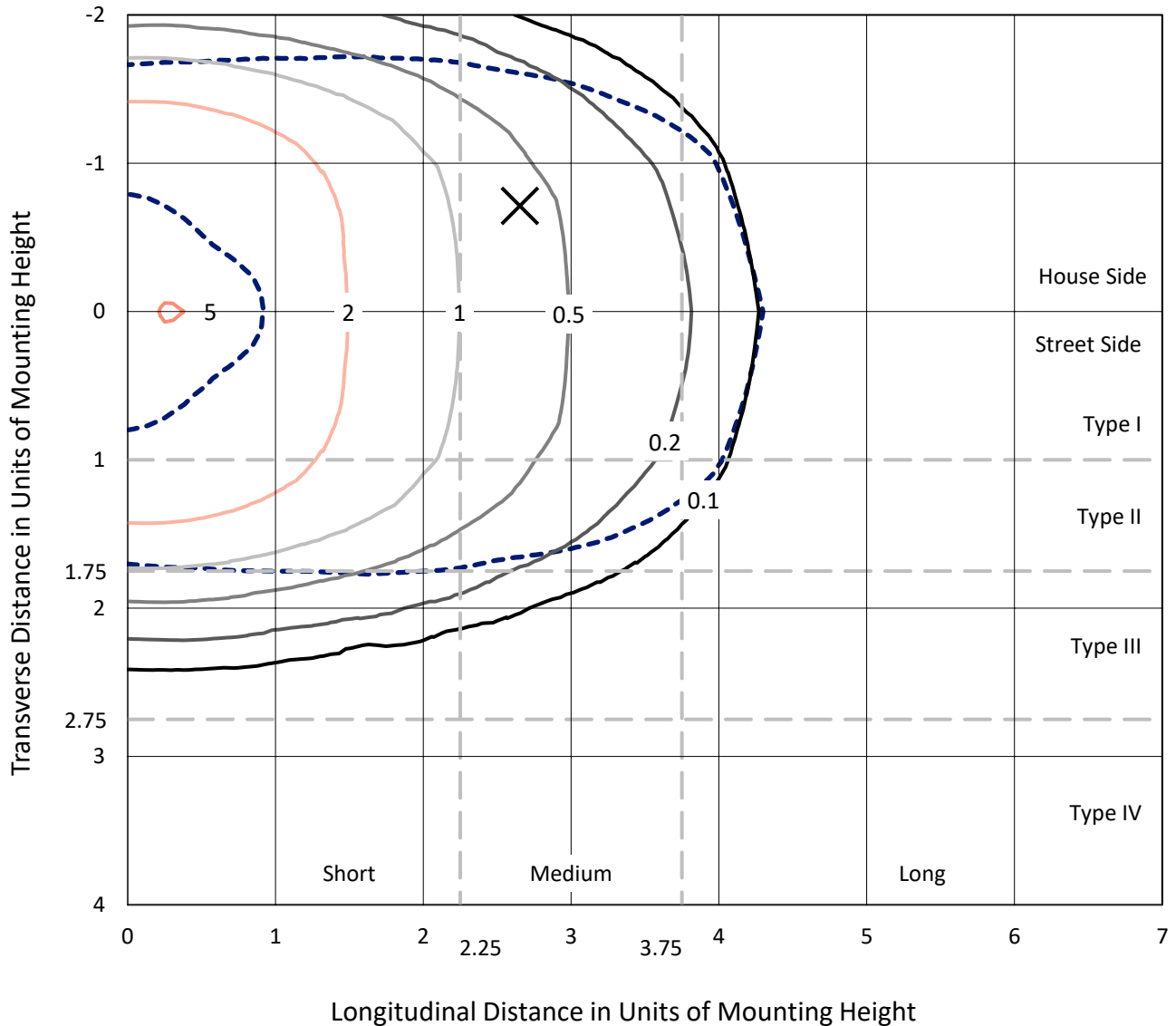
Lumens per Lamp: N/A  
Luminaire Lumens: 38187.1 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 369  
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

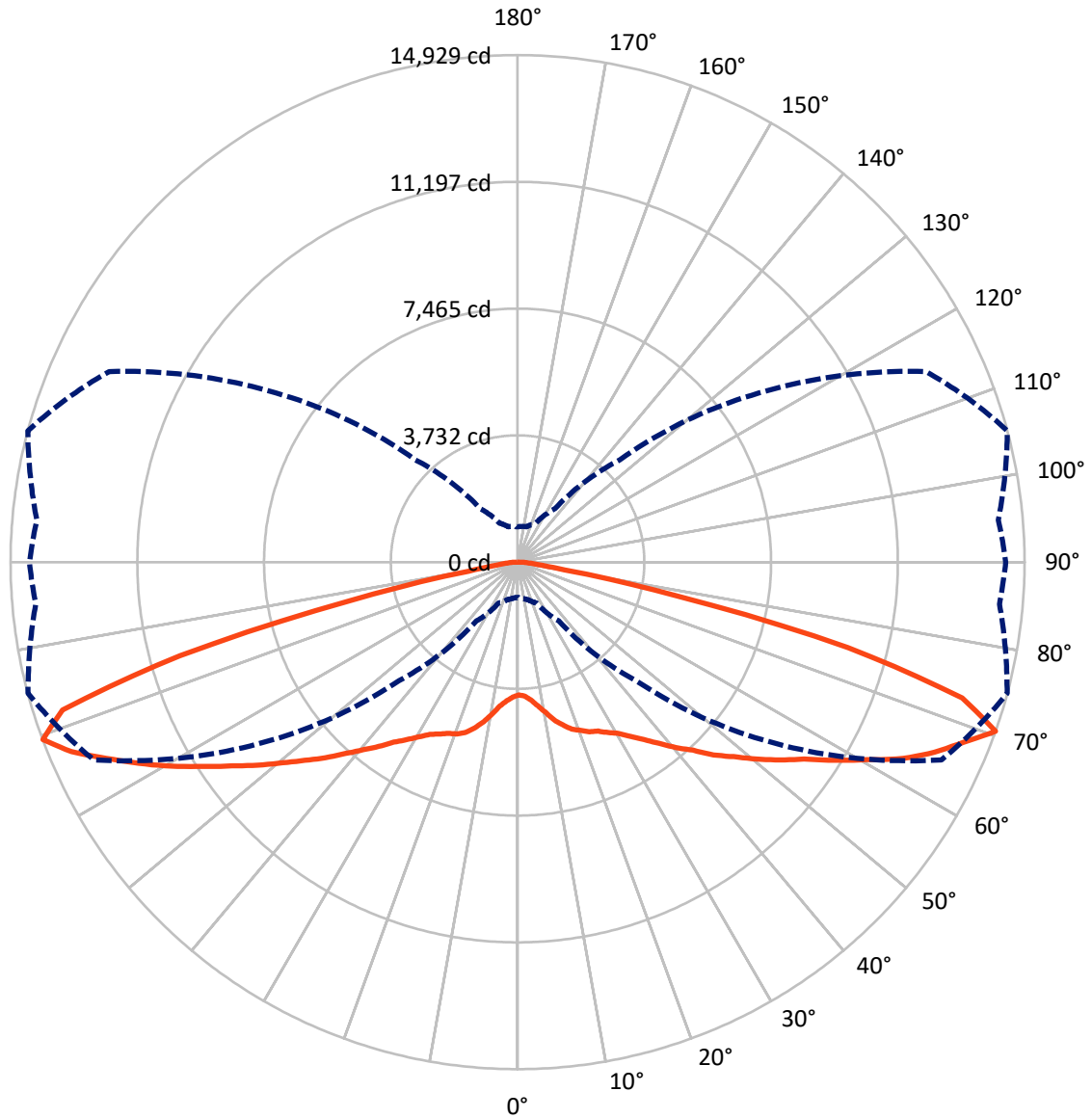
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P481186  
CATALOG NUMBER: IFLD-L-SA7C-727-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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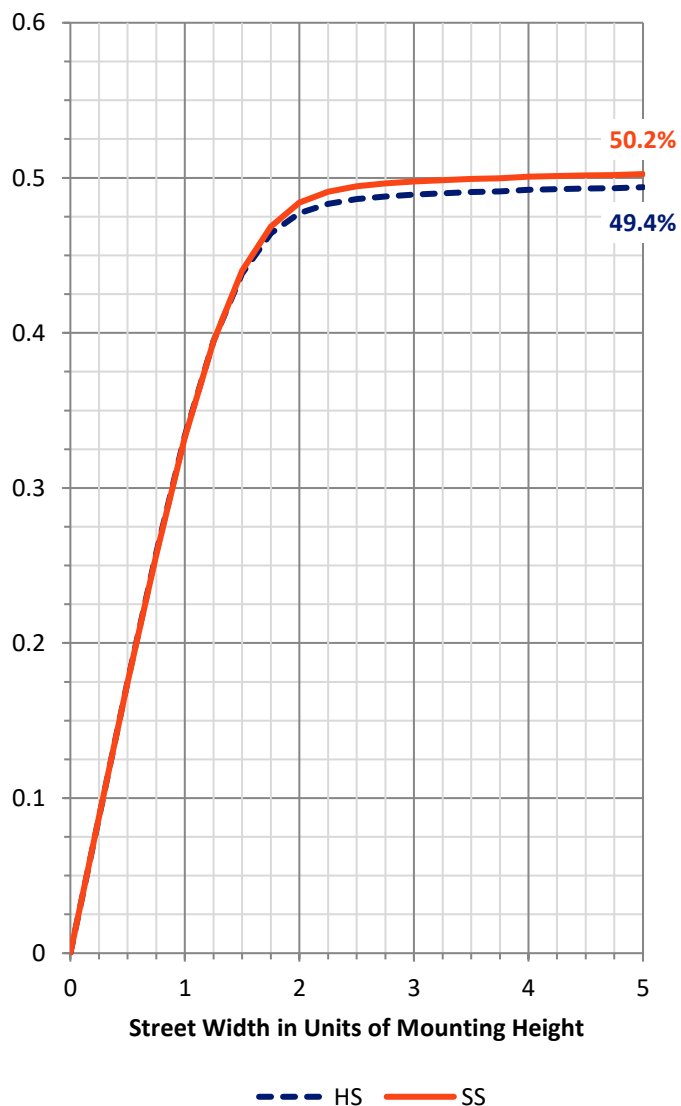
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18957.7	0.0	18957.7
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	19229.4	0.0	19229.4
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	38187.1	0.0	38187.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.2	1.0
10°-20°	1325.2	3.5
20°-30°	2566.1	6.7
30°-40°	4340.3	11.4
40°-50°	6924.1	18.1
50°-60°	9477.6	24.8
60°-70°	8933.2	23.4
70°-80°	3935.3	10.3
80°-90°	296.1	0.8
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°	38187.1	100.0
0°-180°	38187.1	100.0

**Coefficient of Utilization**



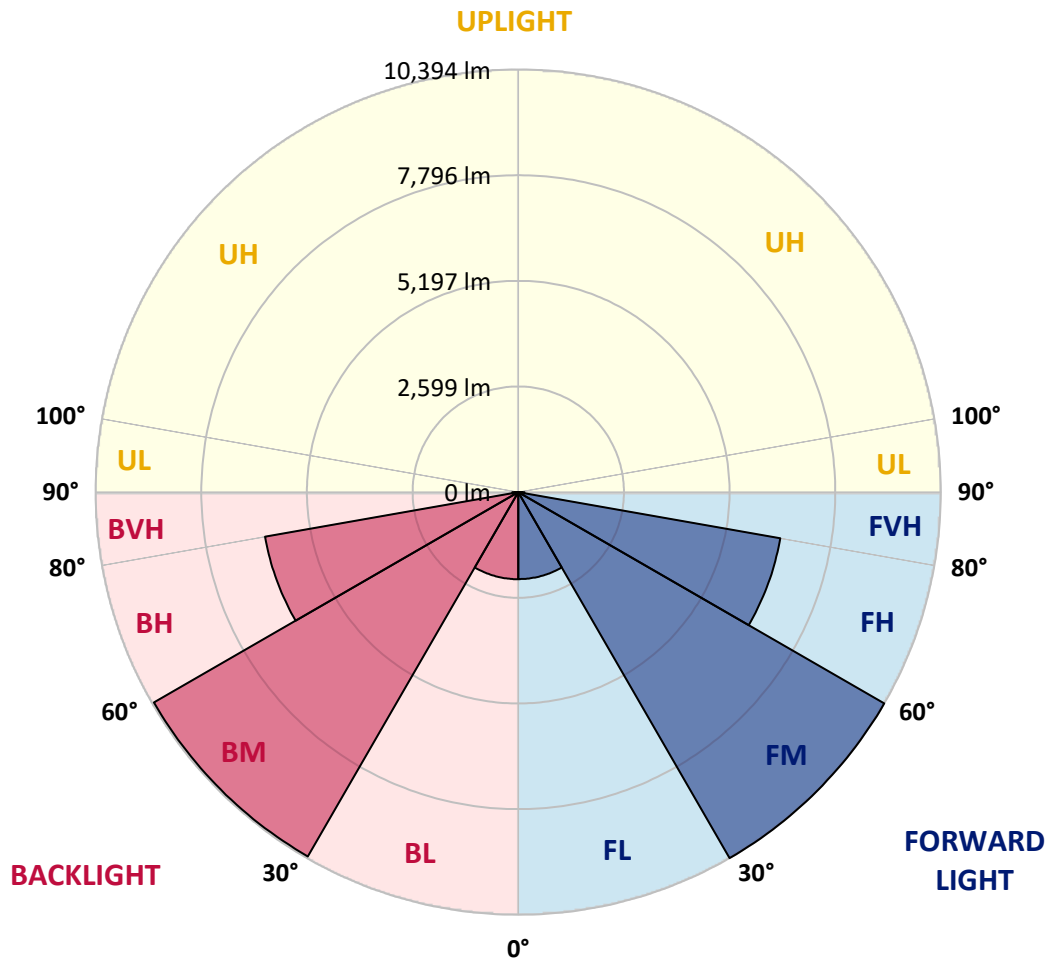
REPORT NUMBER: P481186  
 CATALOG NUMBER: IFLD-L-SA7C-727-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2139.1	5.6			
FM (30°-60°)	10394.2	27.2			
FH (60°-80°)	6544.9	17.1			G3/7500
FVH (80°-90°)	151.3	0.4			G2/225
BL (0°-30°)	2141.4	5.6	B3/2500		
BM (30°-60°)	10347.7	27.1	B5		
BH (60°-80°)	6323.7	16.6	B5		G5
BVH (80°-90°)	144.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Short





REPORT NUMBER: P481186

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3
2.5°	3885.6	3885.6	3881.5	3902.1	3922.7	3930.9	3947.4	3951.5	3976.2	3955.6	3996.8
5°	3873.3	3869.2	3902.1	3951.5	3951.5	4005.0	4037.9	4083.2	4095.5	4120.2	4128.5
7.5°	3959.7	3951.5	3935.0	3988.5	4033.8	4116.1	4161.4	4239.6	4268.4	4301.4	4338.4
10°	4013.2	4013.2	3996.8	4091.4	4132.6	4243.7	4342.5	4420.7	4531.9	4568.9	4573.0
12.5°	4021.5	4033.8	4083.2	4206.7	4321.9	4466.0	4540.1	4688.3	4799.4	4869.4	4894.1
15°	4144.9	4120.2	4173.8	4342.5	4511.3	4638.9	4770.6	4877.6	5038.1	5128.7	5186.3
17.5°	4256.1	4231.4	4330.2	4531.9	4704.7	4902.3	5017.6	5132.8	5248.1	5330.4	5334.5
20°	4433.1	4453.7	4540.1	4758.2	4984.6	5157.5	5289.2	5309.8	5367.4	5486.8	5466.2
22.5°	4651.2	4634.8	4815.9	5054.6	5301.6	5445.6	5519.7	5466.2	5437.4	5565.0	5593.8
25°	4869.4	4918.8	5083.4	5305.7	5602.1	5795.5	5816.1	5667.9	5560.9	5606.2	5593.8
27.5°	5202.8	5211.0	5383.9	5647.3	5947.8	6116.6	6104.2	5894.3	5688.5	5692.6	5700.8
30°	5630.9	5589.7	5779.0	6017.8	6314.1	6466.4	6487.0	6186.5	5910.8	5828.4	5849.0
32.5°	6042.5	6091.9	6256.5	6528.2	6746.3	6832.8	6787.5	6520.0	6161.8	6050.7	6063.1
35°	6569.3	6561.1	6787.5	7018.0	7182.6	7199.1	7162.1	6771.0	6433.5	6289.4	6231.8
37.5°	7133.3	7207.3	7355.5	7544.9	7717.7	7726.0	7524.3	7211.5	6795.7	6557.0	6627.0
40°	7763.0	7845.3	7952.4	8228.1	8355.7	8224.0	8018.2	7594.3	7162.1	6952.1	6985.1
42.5°	8318.7	8355.7	8573.9	8899.1	8960.8	8903.2	8598.6	8084.1	7581.9	7351.4	7367.9
45°	8829.1	8878.5	9162.5	9454.8	9598.8	9500.0	9146.0	8656.2	8071.7	7874.2	7796.0
47.5°	9298.3	9397.1	9672.9	9973.4	10195.7	10203.9	9767.6	9174.9	8557.4	8298.1	8294.0
50°	9615.3	9759.3	10031.0	10372.6	10697.8	10825.4	10389.1	9751.1	9088.4	8812.6	8783.8
52.5°	9788.2	9936.3	10208.0	10739.0	11101.2	11298.8	11093.0	10290.3	9710.0	9421.8	9376.5
55°	9578.2	9677.0	10121.6	10866.6	11426.4	11751.6	11615.7	11035.3	10327.4	10092.8	10133.9
57.5°	8685.0	8890.8	9438.3	10368.5	11418.1	12216.7	12204.3	11739.2	11039.5	10817.2	10825.4
60°	7149.7	7322.6	7997.6	9298.3	10957.1	12406.0	12842.3	12422.5	11838.0	11578.7	11570.4
62.5°	5046.4	5264.5	6046.6	7466.7	9598.8	12142.6	13575.0	13282.8	12620.1	12430.7	12500.7
65°	2823.7	2955.4	3679.8	4964.1	7314.4	10693.7	13706.7	14176.0	13414.5	13126.3	13138.7
67.5°	1510.6	1560.0	1897.5	2605.5	4474.2	8244.6	12377.2	14690.5	14274.7	13776.7	13698.5
70°	1037.3	1053.7	1140.2	1333.6	2115.7	4931.1	9335.4	13772.6	14921.0	14241.8	14373.5
72.5°	876.7	868.5	889.1	909.7	1107.2	2206.2	5478.6	10599.0	14085.4	13830.2	13780.8
75°	761.5	757.4	765.6	745.0	769.7	971.4	2424.4	6606.4	10310.9	11508.7	11693.9
77.5°	629.8	633.9	638.0	617.4	609.2	642.1	975.5	2901.9	5075.2	5602.1	6042.5
80°	477.5	485.7	518.6	498.1	465.1	469.2	576.3	971.4	1457.1	1321.3	1362.4
82.5°	325.2	329.3	399.3	374.6	349.9	316.9	370.5	502.2	568.0	432.2	378.7
85°	230.5	226.4	259.3	238.7	222.3	160.5	222.3	284.0	341.6	214.0	193.5
87.5°	53.5	53.5	107.0	86.4	82.3	65.9	86.4	111.1	148.2	94.7	86.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481186  
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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3
2.5°	3984.4	3947.4	3947.4	3939.1	3906.2	3898.0	3869.2	3877.4	3856.8	3836.2
5°	4124.4	4075.0	4075.0	4005.0	3939.1	3930.9	3898.0	3898.0	3865.0	3873.3
7.5°	4317.8	4272.5	4198.5	4136.7	4046.2	4009.1	3947.4	3939.1	3930.9	3914.4
10°	4548.3	4490.7	4416.6	4289.0	4214.9	4144.9	4083.2	3996.8	3976.2	3980.3
12.5°	4861.1	4770.6	4610.1	4498.9	4404.3	4313.7	4223.1	4095.5	4066.7	4079.1
15°	5083.4	4968.2	4807.6	4766.5	4638.9	4527.7	4379.6	4235.5	4186.1	4173.8
17.5°	5264.5	5169.9	5075.2	5013.4	4910.5	4774.7	4568.9	4404.3	4293.1	4280.8
20°	5412.7	5289.2	5268.6	5305.7	5178.1	5087.5	4836.5	4634.8	4486.6	4424.8
22.5°	5503.3	5425.1	5482.7	5515.6	5507.4	5355.1	5095.8	4861.1	4675.9	4618.3
25°	5602.1	5511.5	5717.3	5828.4	5857.3	5606.2	5404.5	5095.8	4914.7	4877.6
27.5°	5651.4	5684.4	5923.1	6157.7	6137.2	5943.7	5672.0	5396.2	5252.2	5186.3
30°	5795.5	5849.0	6211.2	6474.7	6478.8	6289.4	6083.6	5770.8	5610.3	5581.5
32.5°	6054.8	6120.7	6507.6	6787.5	6836.9	6692.8	6487.0	6293.6	6128.9	6063.1
35°	6252.4	6421.2	6857.5	7112.7	7244.4	7158.0	7042.7	6841.0	6668.1	6610.5
37.5°	6536.4	6771.0	7190.9	7536.6	7684.8	7676.6	7590.1	7372.0	7227.9	7178.5
40°	6943.9	7178.5	7561.3	8018.2	8294.0	8281.7	8232.3	8063.5	7849.5	7824.8
42.5°	7376.1	7569.6	8067.6	8590.4	8985.5	8944.4	8812.6	8615.1	8466.9	8434.0
45°	7796.0	8096.4	8557.4	9228.4	9524.7	9627.6	9471.2	9133.7	8964.9	8944.4
47.5°	8322.8	8561.6	9137.8	9738.8	10179.2	10195.7	9928.1	9615.3	9306.6	9372.4
50°	8792.1	9109.0	9693.5	10352.1	10878.9	10689.6	10348.0	9956.9	9734.6	9648.2
52.5°	9294.2	9681.1	10360.3	11031.2	11323.5	11134.1	10578.5	10142.1	9804.6	9767.6
55°	10026.9	10228.6	11117.7	11632.2	11726.9	11327.6	10508.5	9891.1	9454.8	9347.7
57.5°	10771.9	11006.5	11784.5	12229.0	12130.2	11220.6	10055.7	9100.8	8528.6	8376.3
60°	11525.2	11813.3	12467.8	12875.3	12364.9	10483.8	8775.6	7544.9	6878.1	6742.2
62.5°	12364.9	12739.4	13323.9	13468.0	11669.2	9026.7	6964.5	5445.6	4770.6	4544.2
65°	13109.9	13492.7	14213.0	13344.5	10191.5	6734.0	4503.0	3111.8	2613.7	2432.6
67.5°	13723.2	14155.4	14509.4	11809.2	7462.5	3943.3	2346.2	1638.2	1453.0	1387.1
70°	14208.9	14929.2	13274.5	8680.9	4264.3	1922.2	1267.8	1078.4	1053.7	1037.3
72.5°	13784.9	13690.2	9911.6	5009.3	1868.7	1057.8	917.9	889.1	885.0	889.1
75°	11274.1	10055.7	5927.2	2177.4	938.5	765.6	761.5	749.1	769.7	769.7
77.5°	5470.3	4782.9	2477.9	934.4	617.4	601.0	621.5	621.5	621.5	621.5
80°	1267.8	1403.6	885.0	568.0	448.7	448.7	493.9	498.1	477.5	469.2
82.5°	432.2	576.3	485.7	358.1	296.4	333.4	374.6	382.8	316.9	321.1
85°	214.0	337.5	263.4	205.8	152.3	205.8	242.9	255.2	218.2	209.9
87.5°	98.8	148.2	98.8	70.0	53.5	74.1	70.0	57.6	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)