

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: P479001

Luminaire Tested: **IFLD-L-SA7B-750-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479001  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-750-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

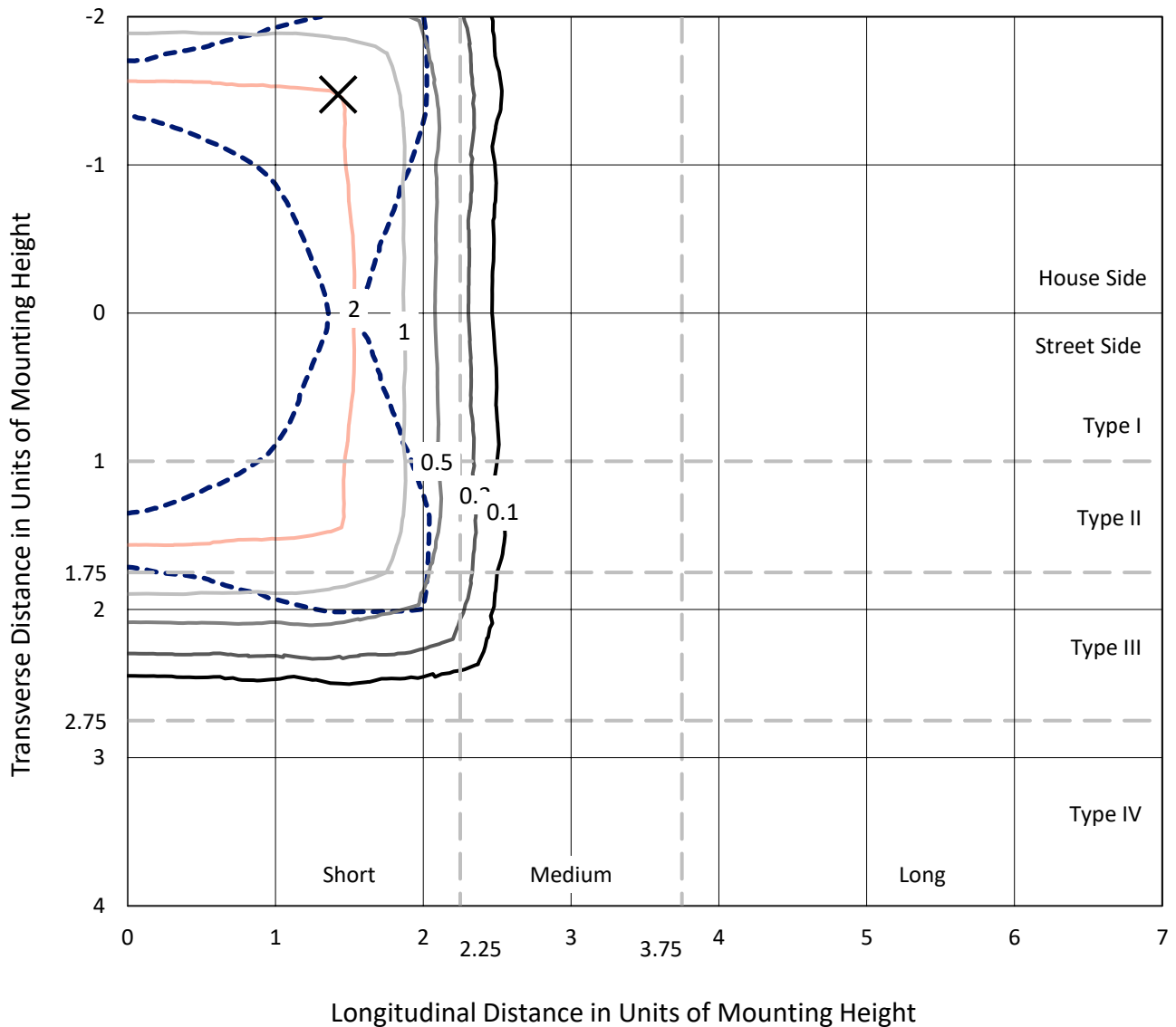
Lumens per Lamp: N/A  
Luminaire Lumens: 36331.9 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 281  
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

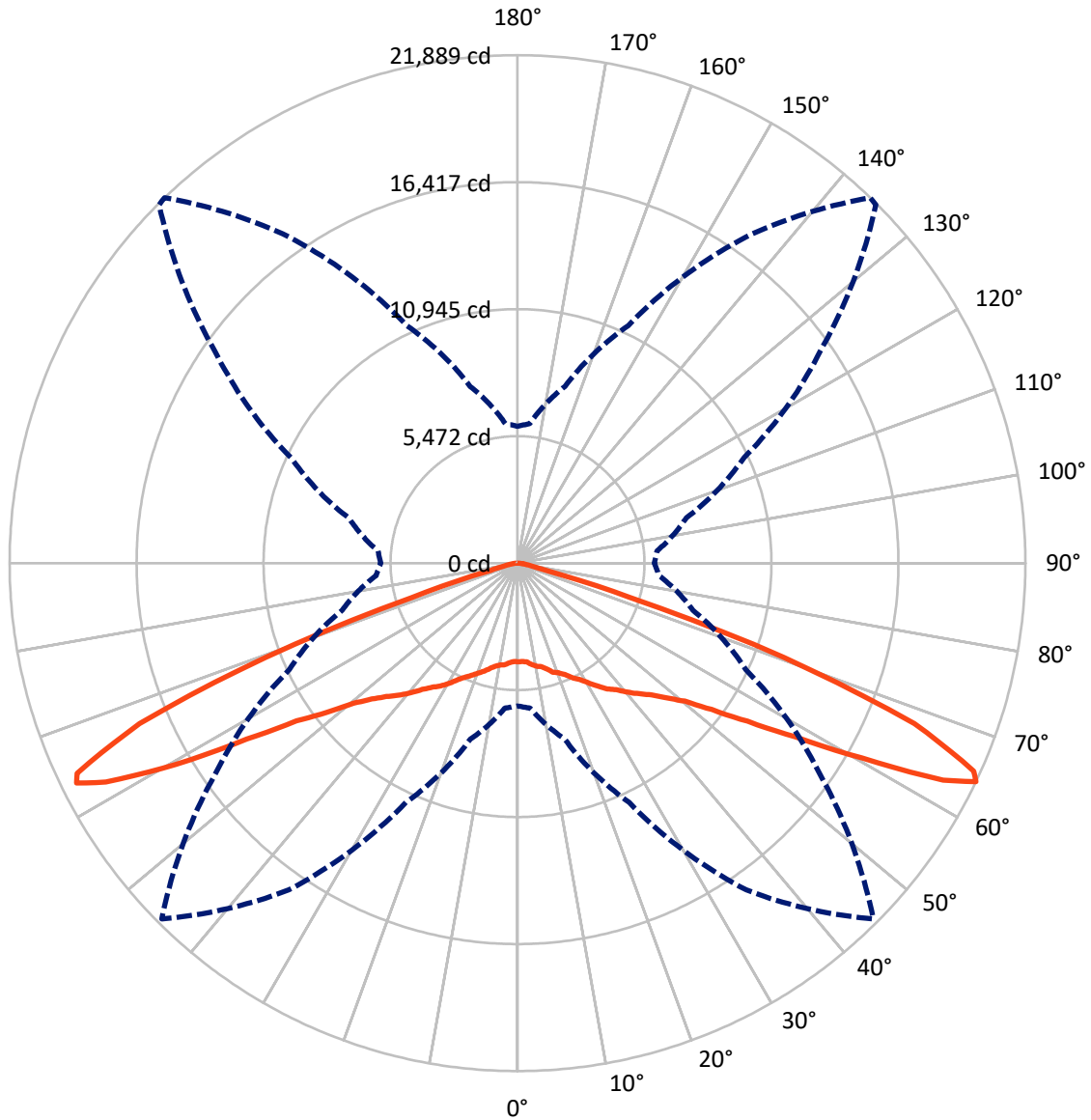
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P479001  
CATALOG NUMBER: IFLD-L-SA7B-750-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P479001

CATALOG NUMBER: IFLD-L-SA7B-750-U-5NQ

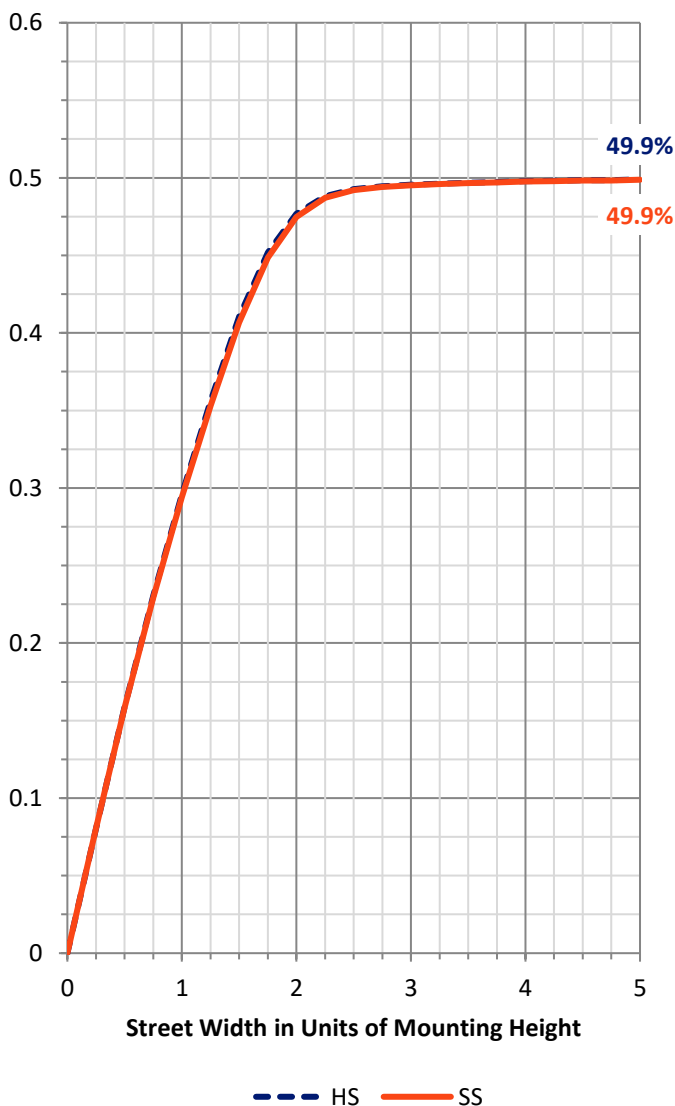
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18183.3	0.0	18183.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18148.6	0.0	18148.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36331.9	0.0	36331.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.0	1.2
10°-20°	1347.1	3.7
20°-30°	2531.7	7.0
30°-40°	4175.2	11.5
40°-50°	6529.8	18.0
50°-60°	10550.6	29.0
60°-70°	9500.1	26.1
70°-80°	1125.3	3.1
80°-90°	154.0	0.4
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°	36331.9	100.0
0°-180°	36331.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479001

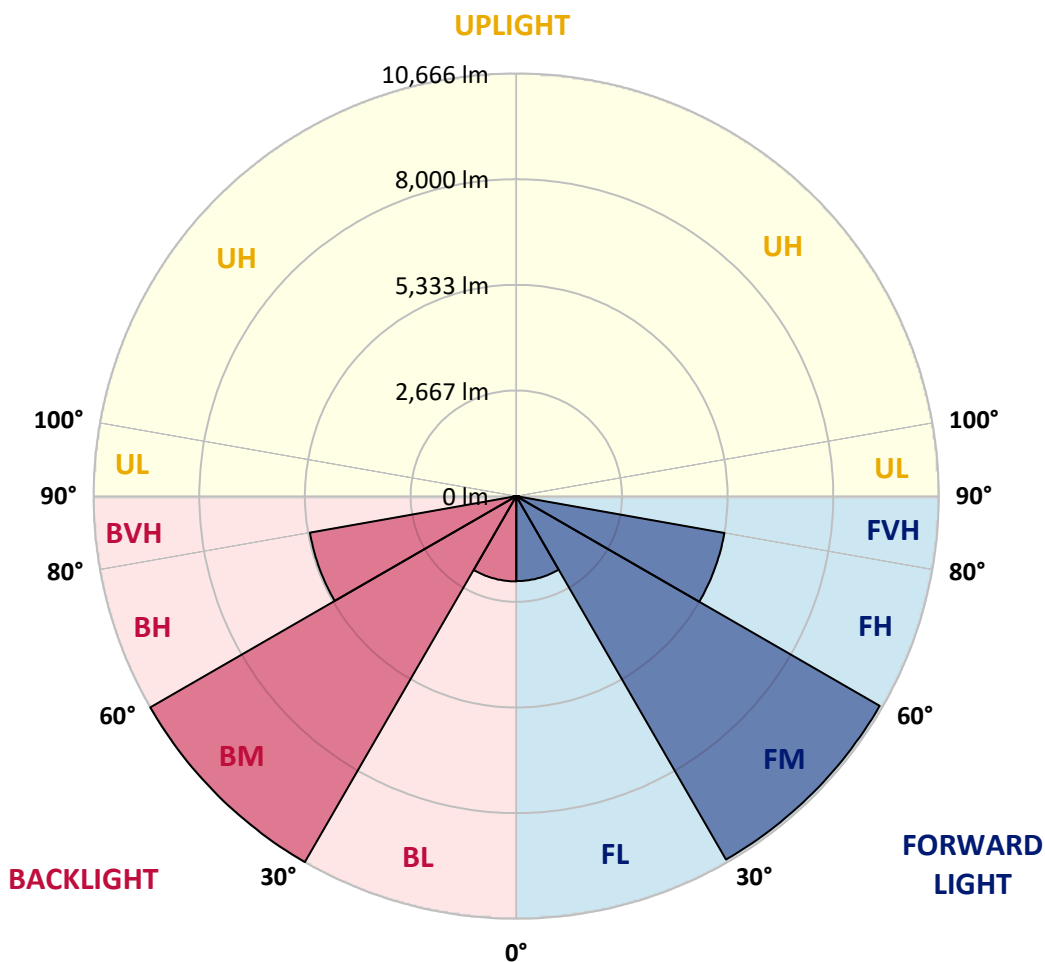
CATALOG NUMBER: IFLD-L-SA7B-750-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.2	5.9			
FM (30°-60°)	10589.6	29.1			
FH (60°-80°)	5335.8	14.7			G3/7500
FVH (80°-90°)	79.0	0.2			G1/100
BL (0°-30°)	2152.5	5.9	B3/2500		
BM (30°-60°)	10666.0	29.4	B5		
BH (60°-80°)	5289.7	14.6	B5		G3/7500
BVH (80°-90°)	75.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7
2.5°	4203.7	4212.1	4287.1	4257.9	4282.9	4237.1	4270.4	4341.2	4257.9	4320.4	4341.2
5°	4249.6	4262.1	4262.1	4291.2	4307.9	4299.5	4320.4	4291.2	4370.4	4337.0	4387.0
7.5°	4416.2	4395.4	4362.0	4387.0	4391.2	4412.0	4432.9	4470.4	4457.9	4428.7	4478.7
10°	4445.4	4428.7	4478.7	4482.9	4462.0	4445.4	4466.2	4466.2	4503.7	4512.0	4512.0
12.5°	4495.4	4512.0	4507.9	4541.2	4545.4	4532.9	4566.2	4628.7	4612.0	4624.5	4595.4
15°	4687.0	4666.2	4662.0	4695.3	4749.5	4670.3	4728.7	4724.5	4707.8	4732.8	4666.2
17.5°	4853.7	4787.0	4816.2	4870.3	4849.5	4866.2	4941.1	4874.5	4891.2	4862.0	4841.2
20°	4999.5	4945.3	4949.5	4970.3	4970.3	5020.3	5049.5	5024.5	5007.8	5003.6	5012.0
22.5°	5162.0	5099.5	5103.6	5191.1	5220.3	5203.6	5182.8	5224.5	5232.8	5199.5	5237.0
25°	5282.8	5349.4	5370.3	5411.9	5349.4	5395.3	5378.6	5457.8	5507.8	5441.1	5486.9
27.5°	5599.4	5570.2	5624.4	5620.2	5670.2	5624.4	5653.6	5678.6	5699.4	5703.6	5682.7
30°	5882.7	5895.2	5841.1	5986.9	5870.2	5945.2	5995.2	6007.7	6032.7	6032.7	5970.2
32.5°	6182.7	6157.7	6245.2	6211.8	6191.0	6249.3	6195.2	6366.0	6266.0	6324.3	6253.5
35°	6520.1	6520.1	6553.5	6645.1	6520.1	6482.7	6582.6	6653.5	6653.5	6549.3	6574.3
37.5°	6899.3	6865.9	6907.6	7024.3	6928.4	6803.5	6986.8	7015.9	6995.1	6965.9	6915.9
40°	7165.9	7157.6	7240.9	7395.1	7257.6	7232.6	7265.9	7345.1	7370.1	7399.2	7332.6
42.5°	7615.9	7653.4	7895.0	7857.5	7745.0	7657.5	7649.2	7945.0	7874.2	7799.2	7761.7
45°	8282.5	8249.1	8374.1	8378.3	8232.5	8040.8	8082.5	8353.3	8474.1	8307.5	8370.0
47.5°	8811.6	8828.2	8915.7	9094.9	8757.4	8557.4	8711.6	9149.0	9111.5	9049.1	9107.4
50°	9519.8	9594.8	9869.8	9807.3	9507.3	9261.5	9599.0	10011.4	10057.3	9828.1	9786.5
52.5°	10498.9	10615.6	10765.5	10815.5	10528.1	10440.6	10461.4	10973.8	10861.4	10640.6	10498.9
55°	11357.1	11411.3	11686.3	12098.7	12077.9	11657.1	11898.8	12090.4	11632.1	11178.0	11215.5
57.5°	11723.8	11748.8	12515.4	13340.3	13831.9	13927.7	13652.7	13007.0	11915.4	11040.5	10986.3
60°	10811.4	11048.8	11973.7	13836.0	16081.6	17189.9	15360.9	13111.1	11253.0	10190.6	10111.4
62.5°	8640.8	8653.3	10028.1	12852.8	17481.5	20385.4	16015.0	12132.1	9486.5	8282.5	7965.8
64°	6153.5	6270.2	7849.2	11378.0	17189.9	21685.2	15935.8	10853.0	7820.0	6111.9	5891.0
65°	4416.2	4578.7	6103.5	9878.1	16506.6	21531.1	15698.4	9753.1	6324.3	4666.2	4441.2
67.5°	1624.8	1691.5	2395.6	4941.1	11852.9	18348.1	12440.4	5361.9	2778.9	1979.0	1779.0
70°	754.1	758.3	887.4	1633.2	5182.8	12269.5	5936.9	2012.3	1045.7	829.1	770.8
72.5°	554.1	566.6	620.8	754.1	1524.8	5195.3	1949.8	824.9	612.4	541.6	529.1
75°	450.0	458.3	475.0	545.8	704.1	1391.5	791.6	570.8	487.4	437.5	420.8
77.5°	345.8	345.8	383.3	416.6	466.6	649.9	524.9	454.1	395.8	345.8	333.3
80°	250.0	254.1	300.0	325.0	316.6	429.1	379.1	375.0	325.0	270.8	250.0
82.5°	145.8	158.3	216.6	233.3	225.0	254.1	275.0	291.6	254.1	187.5	170.8
85°	83.3	87.5	125.0	129.2	129.2	120.8	158.3	175.0	170.8	116.7	104.2
87.5°	25.0	25.0	33.3	33.3	37.5	41.7	62.5	75.0	83.3	58.3	54.2
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7
2.5°	4320.4	4257.9	4262.1	4278.7	4224.6	4245.4	4307.9	4262.1	4249.6	4224.6	4212.1
5°	4299.5	4366.2	4341.2	4349.5	4337.0	4278.7	4270.4	4307.9	4328.7	4291.2	4366.2
7.5°	4445.4	4416.2	4382.9	4395.4	4366.2	4416.2	4449.5	4374.5	4412.0	4391.2	4349.5
10°	4528.7	4474.5	4499.5	4491.2	4470.4	4520.4	4487.0	4478.7	4445.4	4399.5	4466.2
12.5°	4557.9	4620.3	4662.0	4591.2	4603.7	4578.7	4557.9	4557.9	4520.4	4507.9	4520.4
15°	4687.0	4741.2	4724.5	4778.7	4707.8	4732.8	4757.8	4695.3	4728.7	4637.0	4707.8
17.5°	4924.5	4878.7	4937.0	4866.2	4891.2	4941.1	4862.0	4862.0	4887.0	4837.0	4774.5
20°	5074.5	5053.6	5032.8	5037.0	4995.3	5041.1	5016.1	5003.6	4966.1	4982.8	5016.1
22.5°	5216.1	5187.0	5195.3	5207.8	5237.0	5216.1	5203.6	5216.1	5124.5	5207.8	5091.1
25°	5391.1	5470.3	5445.3	5499.4	5416.1	5470.3	5466.1	5386.9	5436.9	5403.6	5378.6
27.5°	5682.7	5641.1	5678.6	5611.9	5670.2	5674.4	5624.4	5757.7	5699.4	5691.1	5674.4
30°	6057.7	6028.5	6003.5	5966.0	6011.9	5974.4	6016.0	6028.5	5974.4	5932.7	5853.6
32.5°	6270.2	6349.3	6378.5	6286.8	6291.0	6311.8	6274.3	6236.8	6270.2	6282.7	6270.2
35°	6570.1	6645.1	6661.8	6591.0	6553.5	6657.6	6582.6	6707.6	6599.3	6603.5	6491.0
37.5°	6920.1	6940.9	7082.6	7003.4	6970.1	6920.1	7057.6	7040.9	7065.9	6865.9	6965.9
40°	7315.9	7390.9	7470.0	7270.1	7265.9	7311.7	7303.4	7399.2	7353.4	7324.2	7253.4
42.5°	7749.2	7907.5	7920.0	7786.7	7703.4	7695.0	7736.7	7949.2	7953.3	7761.7	7678.4
45°	8324.1	8499.1	8453.3	8195.0	8103.3	8090.8	8295.0	8386.6	8465.8	8390.8	8320.0
47.5°	9040.7	9157.4	9124.0	8886.6	8590.8	8674.1	8874.1	9161.5	9078.2	8978.2	8894.9
50°	9807.3	9944.8	9874.0	9636.5	9353.2	9353.2	9599.0	9965.6	9940.6	9744.8	9669.8
52.5°	10657.2	10857.2	11019.7	10682.2	10444.7	10482.2	10869.7	11003.0	10940.5	10803.0	10740.5
55°	11290.5	11673.8	12007.1	12023.7	12036.2	12032.1	12132.1	12265.4	11819.6	11598.8	11373.8
57.5°	11136.3	11861.3	13002.8	13777.7	14006.9	14127.7	14094.4	13477.8	12423.7	11698.8	11773.8
60°	10036.4	11219.7	13061.1	15548.4	17214.9	17048.2	16439.9	14002.7	12090.4	10865.5	10711.4
62.5°	8007.5	9432.3	12082.1	16048.3	20639.5	20589.5	17406.5	12790.3	10073.9	8524.1	8428.3
64°	6032.7	7532.5	10778.0	15919.2	21839.4	21889.4	17160.7	11298.8	7882.5	6032.7	5886.9
65°	4616.2	6007.7	9499.0	15652.5	21581.1	21610.2	16477.4	9757.3	5991.0	4282.9	4124.6
67.5°	1837.3	2558.1	5153.6	11869.6	18531.4	18452.2	11757.1	4720.3	2291.4	1491.5	1462.3
70°	783.3	974.9	1808.1	5624.4	12407.0	12177.9	5062.0	1533.2	849.9	712.4	708.3
72.5°	537.4	595.8	774.9	1737.3	5157.8	5037.0	1441.5	712.4	579.1	533.3	533.3
75°	433.3	475.0	562.4	729.1	1366.5	1316.5	679.1	524.9	462.5	429.1	425.0
77.5°	337.5	379.1	441.6	504.1	624.9	620.8	454.1	395.8	358.3	333.3	325.0
80°	266.6	308.3	350.0	358.3	408.3	400.0	308.3	312.5	291.6	241.6	237.5
82.5°	183.3	250.0	279.1	254.1	241.6	241.6	220.8	220.8	204.1	150.0	137.5
85°	112.5	166.6	175.0	150.0	112.5	112.5	120.8	116.7	108.3	79.2	75.0
87.5°	58.3	79.2	70.8	58.3	37.5	37.5	33.3	25.0	25.0	20.8	20.8
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)