

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: P478799

Luminaire Tested: **IFLD-S-SA6E-722-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478799  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-722-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

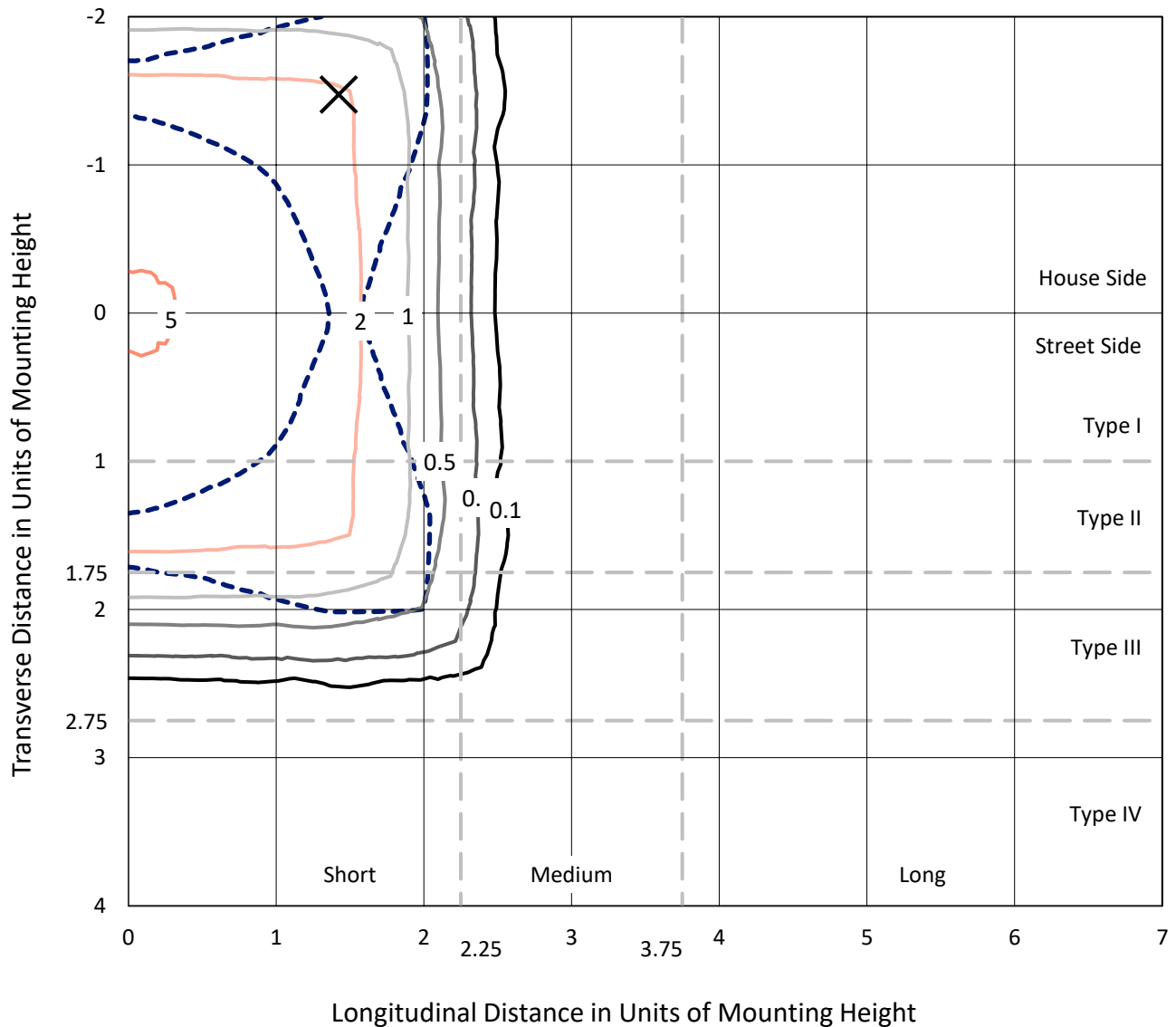
Lumens per Lamp: N/A  
Luminaire Lumens: 38873.3 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 464.2  
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

REPORT NUMBER: P478799  
 CATALOG NUMBER: IFLD-S-SA6E-722-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

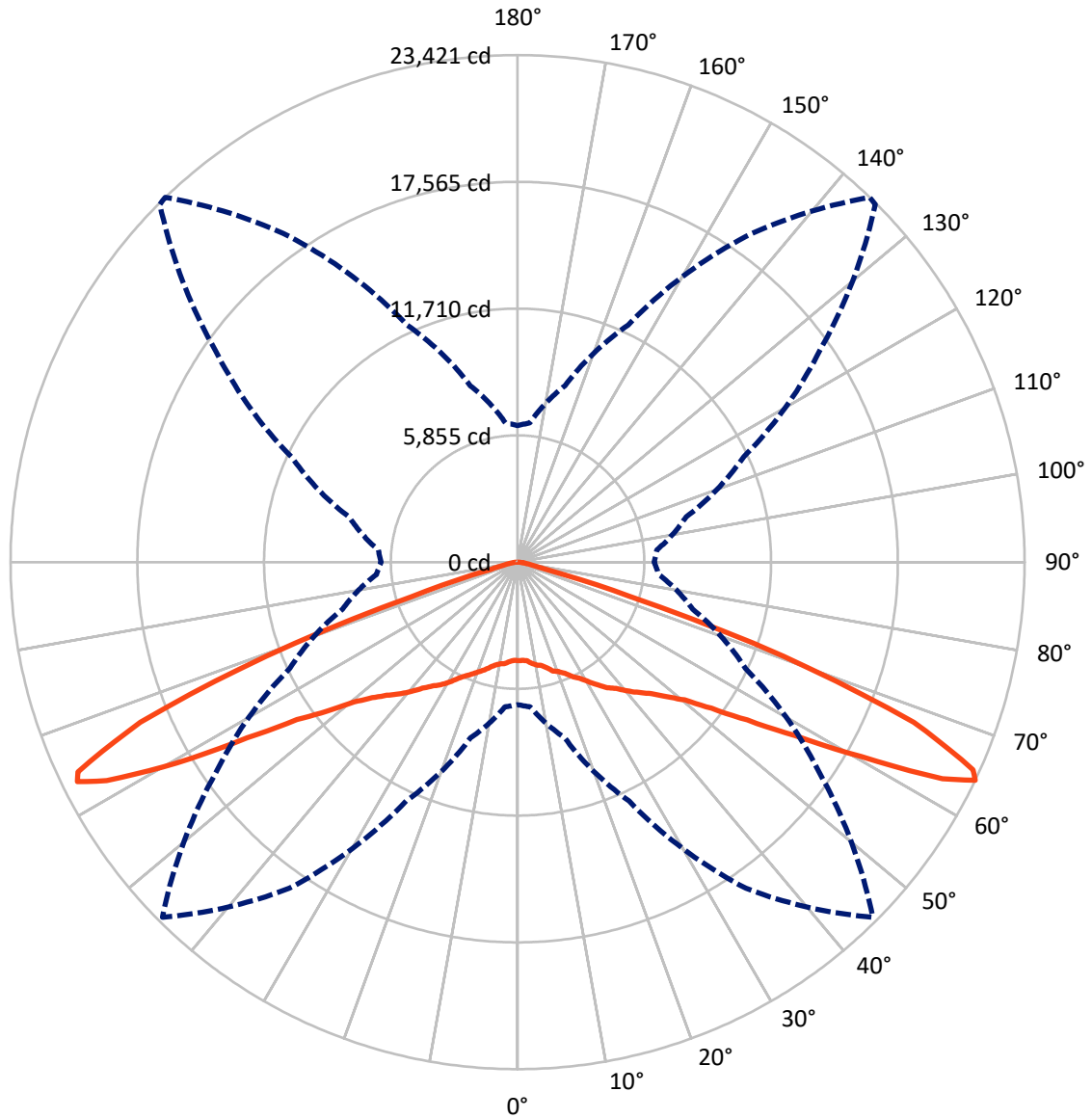
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P478799  
CATALOG NUMBER: IFLD-S-SA6E-722-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P478799

CATALOG NUMBER: IFLD-S-SA6E-722-U-5NQ

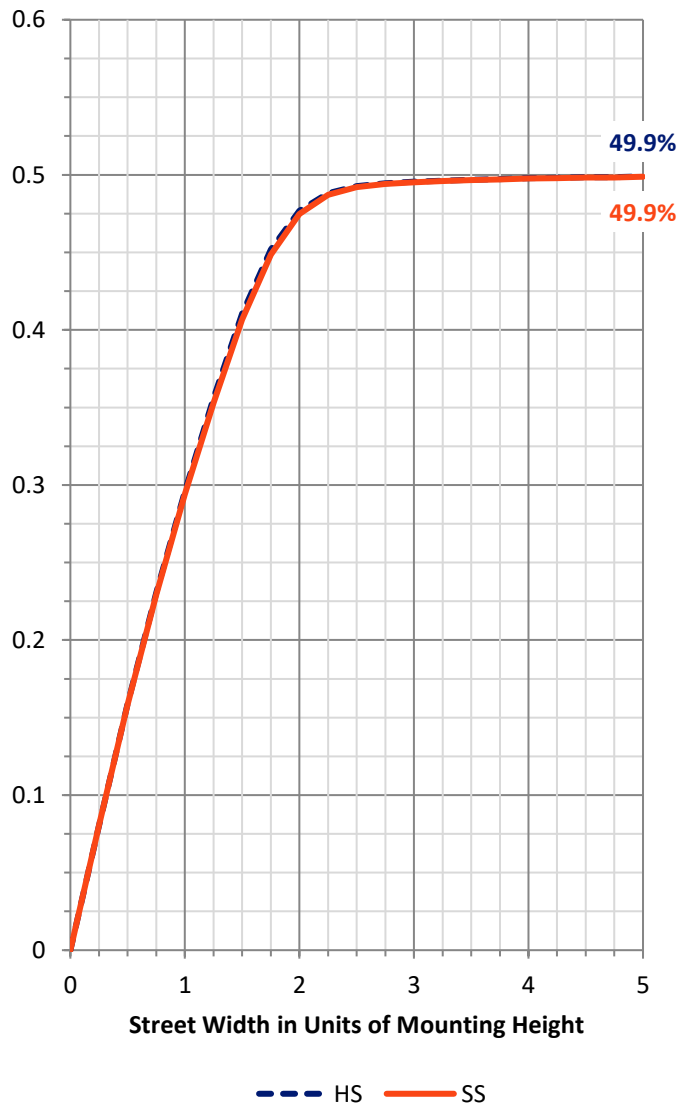
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19455.2	0.0	19455.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19418.1	0.0	19418.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38873.3	0.0	38873.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.2	1.2
10°-20°	1441.3	3.7
20°-30°	2708.8	7.0
30°-40°	4467.3	11.5
40°-50°	6986.6	18.0
50°-60°	11288.6	29.0
60°-70°	10164.6	26.1
70°-80°	1204.1	3.1
80°-90°	164.8	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°	38873.3	100.0
0°-180°	38873.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478799

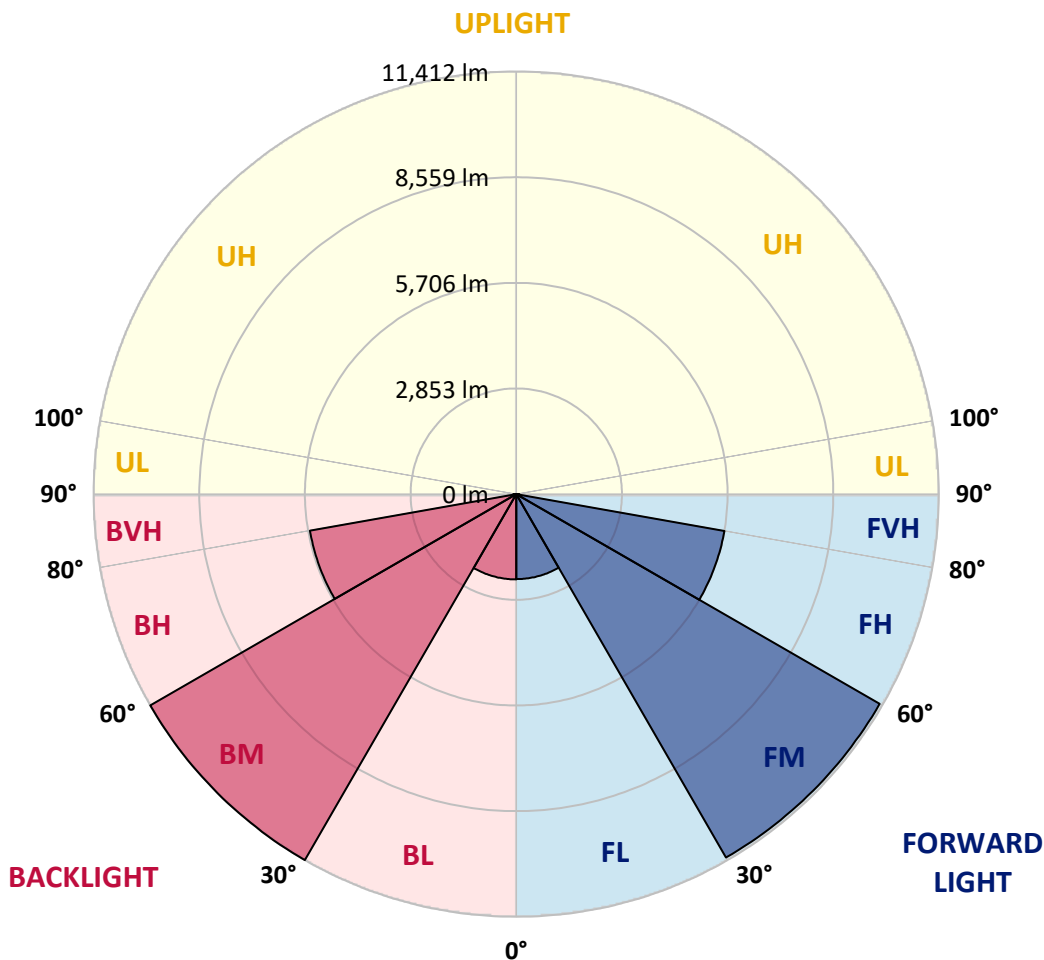
CATALOG NUMBER: IFLD-S-SA6E-722-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2294.2	5.9			
FM (30°-60°)	11330.4	29.1			
FH (60°-80°)	5709.0	14.7			G3/7500
FVH (80°-90°)	84.5	0.2			G1/100
BL (0°-30°)	2303.1	5.9	B3/2500		
BM (30°-60°)	11412.1	29.4	B5		
BH (60°-80°)	5659.7	14.6	B5		G3/7500
BVH (80°-90°)	80.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type V Short





REPORT NUMBER: P478799

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3
2.5°	4497.8	4506.7	4586.9	4555.7	4582.5	4533.4	4569.1	4644.9	4555.7	4622.6	4644.9
5°	4546.8	4560.2	4560.2	4591.4	4609.2	4600.3	4622.6	4591.4	4676.1	4640.4	4693.9
7.5°	4725.1	4702.8	4667.2	4693.9	4698.4	4720.7	4742.9	4783.1	4769.7	4738.5	4792.0
10°	4756.3	4738.5	4792.0	4796.4	4774.1	4756.3	4778.6	4778.6	4818.7	4827.6	4827.6
12.5°	4809.8	4827.6	4823.2	4858.8	4863.3	4849.9	4885.6	4952.5	4934.6	4948.0	4916.8
15°	5014.9	4992.6	4988.1	5023.8	5081.7	4997.0	5059.4	5055.0	5037.2	5063.9	4992.6
17.5°	5193.2	5121.8	5153.1	5211.0	5188.7	5206.5	5286.8	5215.5	5233.3	5202.1	5179.8
20°	5349.2	5291.2	5295.7	5318.0	5318.0	5371.5	5402.7	5375.9	5358.1	5353.6	5362.6
22.5°	5523.0	5456.2	5460.6	5554.2	5585.4	5567.6	5545.3	5589.9	5598.8	5563.2	5603.3
25°	5652.3	5723.6	5745.9	5790.5	5723.6	5772.7	5754.8	5839.5	5893.0	5821.7	5870.7
27.5°	5991.1	5959.9	6017.8	6013.4	6066.9	6017.8	6049.0	6075.8	6098.1	6102.5	6080.2
30°	6294.2	6307.6	6249.6	6405.7	6280.8	6361.1	6414.6	6427.9	6454.7	6454.7	6387.8
32.5°	6615.2	6588.4	6682.0	6646.4	6624.1	6686.5	6628.5	6811.3	6704.3	6766.7	6690.9
35°	6976.2	6976.2	7011.9	7110.0	6976.2	6936.1	7043.1	7118.9	7118.9	7007.4	7034.2
37.5°	7381.9	7346.2	7390.8	7515.6	7413.1	7279.4	7475.5	7506.7	7484.4	7453.2	7399.7
40°	7667.2	7658.3	7747.4	7912.3	7765.2	7738.5	7774.2	7858.8	7885.6	7916.8	7845.5
42.5°	8148.6	8188.7	8447.3	8407.1	8286.8	8193.2	8184.3	8500.8	8425.0	8344.7	8304.6
45°	8861.8	8826.2	8959.9	8964.3	8808.3	8603.3	8647.9	8937.6	9066.9	8888.6	8955.4
47.5°	9427.9	9445.8	9539.4	9731.1	9370.0	9156.0	9321.0	9789.0	9748.9	9682.0	9744.4
50°	10185.7	10266.0	10560.2	10493.3	10172.4	9909.4	10270.4	10711.7	10760.8	10515.6	10471.0
52.5°	11233.3	11358.1	11518.6	11572.1	11264.5	11170.9	11193.2	11741.5	11621.1	11384.9	11233.3
55°	12151.6	12209.5	12503.7	12945.0	12922.7	12472.5	12731.1	12936.1	12445.8	11959.9	12000.0
57.5°	12543.8	12570.6	13390.8	14273.4	14799.4	14901.9	14607.7	13916.8	12748.9	11812.8	11754.8
60°	11567.6	11821.7	12811.3	14803.9	17206.6	18392.3	16435.4	14028.2	12040.1	10903.4	10818.7
62.5°	9245.2	9258.6	10729.6	13751.9	18704.3	21811.3	17135.2	12980.7	10150.1	8861.8	8523.0
64°	6584.0	6708.8	8398.2	12173.9	18392.3	23202.1	17050.5	11612.2	8367.0	6539.4	6303.1
65°	4725.1	4899.0	6530.5	10569.1	17661.2	23037.2	16796.4	10435.4	6766.7	4992.6	4751.9
67.5°	1738.5	1809.8	2563.2	5286.8	12682.0	19631.5	13310.6	5737.0	2973.3	2117.4	1903.4
70°	806.8	811.3	949.5	1747.4	5545.3	13127.8	6352.2	2153.0	1118.9	887.1	824.7
72.5°	592.9	606.2	664.2	806.8	1631.5	5558.7	2086.2	882.6	655.3	579.5	566.1
75°	481.4	490.3	508.2	584.0	753.3	1488.9	847.0	610.7	521.5	468.1	450.2
77.5°	370.0	370.0	410.1	445.8	499.3	695.4	561.7	485.9	423.5	370.0	356.6
80°	267.5	271.9	321.0	347.7	338.8	459.1	405.6	401.2	347.7	289.7	267.5
82.5°	156.0	169.4	231.8	249.6	240.7	271.9	294.2	312.0	271.9	200.6	182.8
85°	89.2	93.6	133.7	138.2	138.2	129.3	169.4	187.2	182.8	124.8	111.4
87.5°	26.7	26.7	35.7	35.7	40.1	44.6	66.9	80.2	89.2	62.4	57.9
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: P478799  
 CATALOG NUMBER: IFLD-S-SA6E-722-U-5NQ

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3
2.5°	4622.6	4555.7	4560.2	4578.0	4520.1	4542.4	4609.2	4560.2	4546.8	4520.1	4506.7
5°	4600.3	4671.6	4644.9	4653.8	4640.4	4578.0	4569.1	4609.2	4631.5	4591.4	4671.6
7.5°	4756.3	4725.1	4689.5	4702.8	4671.6	4725.1	4760.8	4680.5	4720.7	4698.4	4653.8
10°	4845.5	4787.5	4814.3	4805.4	4783.1	4836.6	4800.9	4792.0	4756.3	4707.3	4778.6
12.5°	4876.7	4943.5	4988.1	4912.3	4925.7	4899.0	4876.7	4876.7	4836.6	4823.2	4836.6
15°	5014.9	5072.8	5055.0	5112.9	5037.2	5063.9	5090.6	5023.8	5059.4	4961.4	5037.2
17.5°	5268.9	5219.9	5282.3	5206.5	5233.3	5286.8	5202.1	5202.1	5228.8	5175.3	5108.5
20°	5429.4	5407.1	5384.8	5389.3	5344.7	5393.8	5367.0	5353.6	5313.5	5331.4	5367.0
22.5°	5581.0	5549.8	5558.7	5572.1	5603.3	5581.0	5567.6	5581.0	5482.9	5572.1	5447.3
25°	5768.2	5852.9	5826.2	5884.1	5795.0	5852.9	5848.4	5763.7	5817.2	5781.6	5754.8
27.5°	6080.2	6035.7	6075.8	6004.5	6066.9	6071.3	6017.8	6160.5	6098.1	6089.2	6071.3
30°	6481.4	6450.2	6423.5	6383.4	6432.4	6392.3	6436.9	6450.2	6392.3	6347.7	6263.0
32.5°	6708.8	6793.5	6824.7	6726.6	6731.1	6753.3	6713.2	6673.1	6708.8	6722.1	6708.8
35°	7029.7	7110.0	7127.8	7052.0	7011.9	7123.3	7043.1	7176.8	7060.9	7065.4	6945.0
37.5°	7404.2	7426.5	7578.0	7493.3	7457.7	7404.2	7551.3	7533.4	7560.2	7346.2	7453.2
40°	7827.6	7907.9	7992.6	7778.6	7774.2	7823.2	7814.3	7916.8	7867.8	7836.6	7760.8
42.5°	8291.2	8460.6	8474.0	8331.4	8242.2	8233.3	8277.9	8505.2	8509.7	8304.6	8215.5
45°	8906.4	9093.6	9044.6	8768.2	8670.1	8656.8	8875.2	8973.3	9058.0	8977.7	8901.9
47.5°	9673.1	9797.9	9762.3	9508.2	9191.7	9280.8	9494.8	9802.4	9713.2	9606.2	9517.1
50°	10493.3	10640.4	10564.6	10310.6	10007.4	10007.4	10270.4	10662.7	10636.0	10426.5	10346.2
52.5°	11402.7	11616.7	11790.5	11429.4	11175.3	11215.5	11630.0	11772.7	11705.8	11558.7	11491.8
55°	12080.2	12490.4	12847.0	12864.8	12878.2	12873.7	12980.7	13123.3	12646.4	12410.1	12169.4
57.5°	11915.3	12690.9	13912.3	14741.5	14986.6	15115.9	15080.3	14420.5	13292.7	12517.1	12597.3
60°	10738.5	12004.5	13974.8	16636.0	18419.0	18240.7	17589.9	14982.2	12936.1	11625.6	11460.6
62.5°	8567.6	10092.1	12927.2	17170.9	22083.2	22029.7	18624.1	13685.0	10778.6	9120.4	9017.8
64°	6454.7	8059.4	11532.0	17032.7	23367.0	23420.5	18361.1	12089.2	8433.9	6454.7	6298.7
65°	4939.1	6427.9	10163.5	16747.4	23090.7	23121.9	17630.0	10439.8	6410.1	4582.5	4413.1
67.5°	1965.8	2737.0	5514.1	12699.9	19827.7	19743.0	12579.5	5050.5	2451.7	1595.8	1564.6
70°	838.0	1043.1	1934.6	6017.8	13274.9	13029.7	5416.1	1640.4	909.4	762.3	757.8
72.5°	575.0	637.4	829.1	1858.8	5518.6	5389.3	1542.3	762.3	619.6	570.6	570.6
75°	463.6	508.2	601.8	780.1	1462.1	1408.6	726.6	561.7	494.8	459.1	454.7
77.5°	361.1	405.6	472.5	539.4	668.6	664.2	485.9	423.5	383.4	356.6	347.7
80°	285.3	329.9	374.4	383.4	436.9	427.9	329.9	334.3	312.0	258.5	254.1
82.5°	196.1	267.5	298.7	271.9	258.5	258.5	236.3	236.3	218.4	160.5	147.1
85°	120.4	178.3	187.2	160.5	120.4	120.4	129.3	124.8	115.9	84.7	80.2
87.5°	62.4	84.7	75.8	62.4	40.1	40.1	35.7	26.7	26.7	22.3	22.3
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)