

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: P478071

Luminaire Tested: **IFLD-L-SA8C-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478071  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

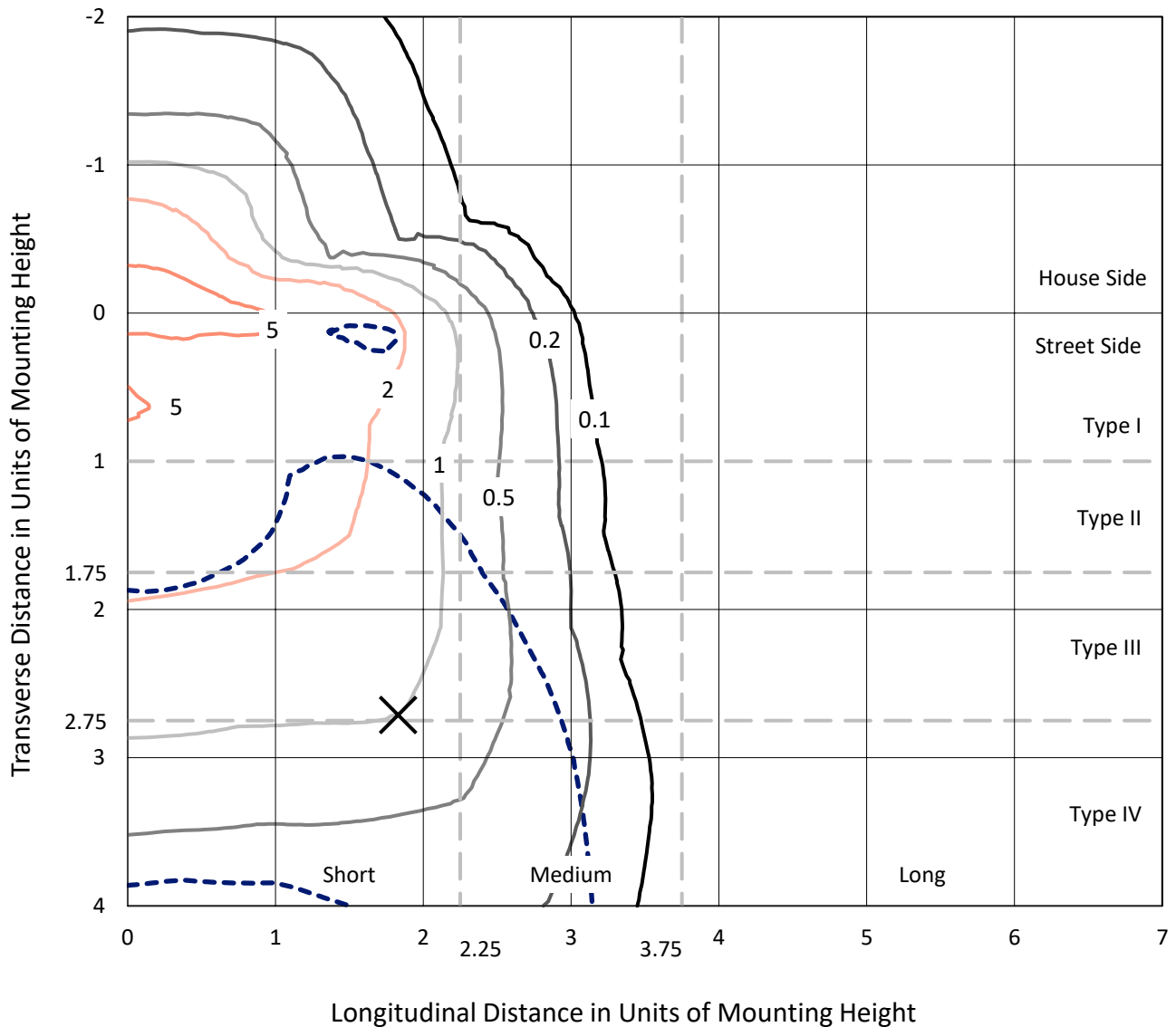
Lumens per Lamp: N/A  
Luminaire Lumens: 43408 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

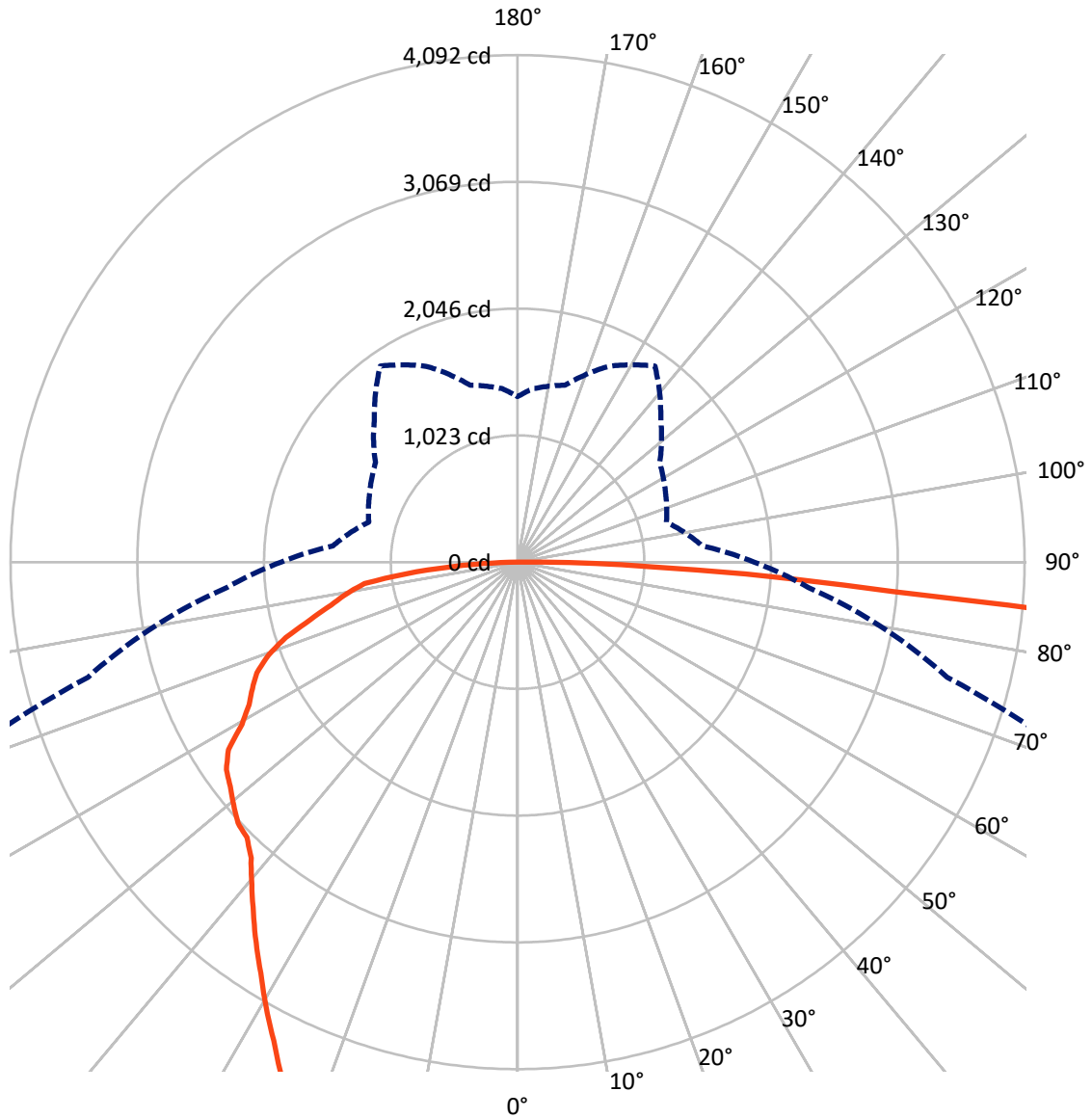
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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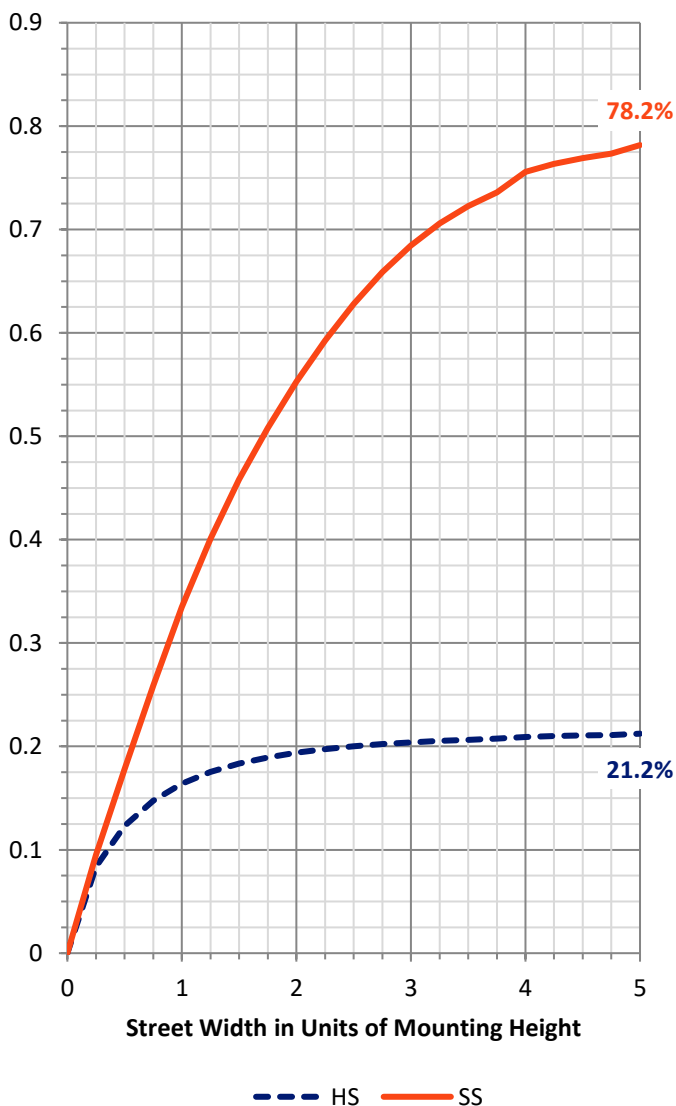
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9376.7	0.0	9376.7
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	34031.3	0.0	34031.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	43408.0	0.0	43408.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	574.4	1.3
10°-20°	1607.4	3.7
20°-30°	2645.6	6.1
30°-40°	3956.5	9.1
40°-50°	5865.3	13.5
50°-60°	8452.5	19.5
60°-70°	10786.5	24.8
70°-80°	8393.7	19.3
80°-90°	1126.1	2.6
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°	43408.0	100.0
0°-180°	43408.0	100.0

**Coefficient of Utilization**



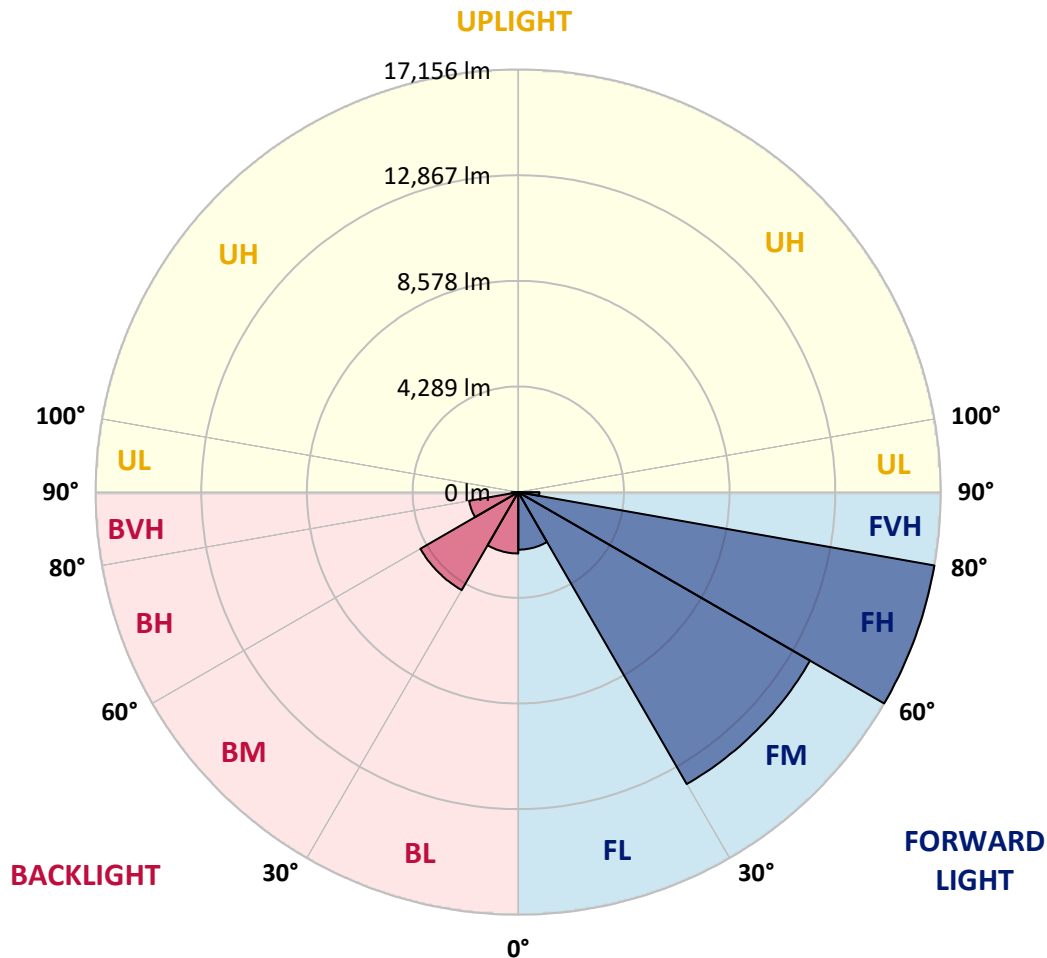
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.1	5.4			
FM (30°-60°)	13682.5	31.5			
FH (60°-80°)	17155.6	39.5			G5
FVH (80°-90°)	857.1	2.0			G5
BL (0°-30°)	2491.3	5.7	B3/2500		
BM (30°-60°)	4591.8	10.6	B3/5000		
BH (60°-80°)	2024.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	268.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2
2.5°	5576.1	5594.5	5654.1	5667.9	5732.2	5695.4	5773.5	5911.1	5989.2	6103.9	6241.6
5°	5135.5	5057.5	5094.2	5236.5	5309.9	5328.3	5410.9	5645.0	5791.8	5961.6	6218.6
7.5°	4616.9	4603.2	4676.6	4768.4	4915.2	4929.0	5112.6	5319.1	5622.0	5998.3	6301.2
10°	4263.5	4323.2	4364.5	4460.9	4561.9	4561.9	4795.9	5153.9	5498.1	5860.7	6319.6
12.5°	4245.2	4208.5	4217.7	4268.1	4341.6	4433.4	4653.6	4974.9	5410.9	5833.1	6397.6
15°	4304.9	4318.6	4236.0	4300.3	4327.8	4359.9	4603.2	4965.7	5355.8	5929.5	6530.7
17.5°	4621.5	4543.5	4415.0	4355.3	4451.7	4451.7	4616.9	4901.5	5365.0	5980.0	6723.5
20°	4869.3	4869.3	4658.2	4594.0	4662.8	4649.1	4763.8	4974.9	5410.9	6080.9	6939.2
22.5°	5287.0	5346.6	4997.8	4864.8	4860.2	4896.9	4997.8	5176.8	5539.4	6223.2	7145.7
25°	5888.2	5902.0	5498.1	5360.4	5213.6	5273.2	5291.6	5470.6	5654.1	6388.4	7379.7
27.5°	6558.2	6549.1	6177.3	5833.1	5736.7	5750.5	5649.5	5768.9	5823.9	6438.9	7714.8
30°	7301.7	7219.1	6939.2	6452.7	6374.7	6287.5	6067.2	6062.6	6177.3	6723.5	8178.3
32.5°	7788.2	7682.6	7489.9	7141.1	6925.4	6934.6	6585.8	6581.2	6480.2	7035.5	8582.2
35°	8265.5	8104.9	8054.4	7696.4	7480.7	7503.7	7223.7	7187.0	7003.4	7508.2	9247.6
37.5°	8839.2	8696.9	8774.9	8504.1	8238.0	8127.8	7999.3	7953.4	7714.8	8173.7	10156.3
40°	9472.5	9426.6	9376.1	9243.0	9082.4	9091.6	8953.9	8908.0	8554.6	8976.9	11028.3
42.5°	10326.1	10151.7	9890.1	9977.3	10059.9	10147.1	10101.3	9981.9	9614.8	9793.8	12001.3
45°	11120.1	10890.6	10408.7	10436.3	10775.9	10844.7	11400.1	11386.3	10647.4	10831.0	13107.3
47.5°	11657.1	11551.5	11262.4	11230.2	11716.7	11712.1	12712.6	12712.6	11735.1	11863.6	14296.0
50°	12455.6	12180.2	12056.3	12217.0	12464.8	12634.6	14052.7	14139.9	12804.4	12942.1	15851.8
52.5°	13391.8	13047.6	12735.6	13148.6	13589.2	13699.3	15379.1	15342.3	13625.9	14195.0	17673.8
55°	14167.5	13993.1	13777.4	14016.0	14736.5	14874.2	16710.0	16370.4	14447.4	15232.2	18550.3
57.5°	15071.6	15177.1	15223.0	15163.4	16021.6	16237.3	18229.1	17256.1	15154.2	15929.8	19064.3
60°	16434.6	16498.9	16558.5	16700.8	17609.5	17912.4	19431.5	18366.8	15599.3	16333.6	19105.6
62.5°	18509.0	18261.2	18394.3	18885.4	19615.1	19959.3	21203.0	19146.9	15939.0	16576.9	17756.4
65°	20881.7	20546.7	20409.0	21042.4	22933.2	22657.8	23415.1	19729.8	15447.9	15668.2	15057.8
67.5°	23286.6	23323.3	22969.9	24241.2	26558.8	26558.8	25471.1	20009.8	14117.0	12698.9	10560.2
70°	25195.8	25310.5	25503.3	27967.8	31639.3	32194.6	28018.2	18862.4	11404.6	8453.7	5773.5
72.5°	25168.2	24824.0	25810.7	30349.7	36256.2	35792.7	28550.6	14915.5	7118.1	4139.6	2648.1
73°	24603.7	24314.6	25393.1	30326.7	36444.4	36008.4	28160.5	13749.8	6278.3	3588.9	2354.4
75°	20092.4	19569.2	21404.9	27467.5	33718.3	34053.3	23924.5	8967.7	3442.0	2212.1	1656.8
77.5°	9160.4	9389.9	11781.0	18426.4	25985.1	26379.8	15727.8	3878.0	1886.2	1551.2	1220.8
80°	2941.8	3088.7	4584.8	9160.4	16287.8	16999.1	7269.6	1762.3	1344.7	1188.7	913.3
82.5°	1124.4	1119.8	1923.0	3809.2	7719.4	8173.7	2657.3	1073.9	1000.5	876.6	647.1
85°	394.7	413.0	725.1	1505.3	3038.2	3180.4	922.5	596.6	693.0	587.4	371.7
87.5°	137.7	142.3	257.0	546.1	1046.4	1106.0	257.0	238.6	344.2	339.6	188.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2	6223.2
2.5°	6287.5	6328.8	6342.5	6507.8	6507.8	6507.8	6572.0	6572.0	6553.7	6507.8	6617.9
5°	6315.0	6388.4	6530.7	6673.0	6709.7	6741.8	6829.0	6755.6	6783.1	6737.2	6778.5
7.5°	6393.0	6494.0	6760.2	6847.4	6787.7	6856.6	6764.8	6714.3	6663.8	6682.2	6617.9
10°	6526.1	6654.6	6778.5	6939.2	6824.4	6755.6	6567.4	6521.5	6360.9	6305.8	6356.3
12.5°	6691.3	6847.4	7058.5	6998.8	6778.5	6581.2	6379.3	6186.5	6090.1	5952.4	5989.2
15°	6856.6	7035.5	7067.7	6966.7	6691.3	6443.5	6076.4	5805.6	5709.2	5585.3	5649.5
17.5°	7035.5	7205.3	7150.3	6888.7	6516.9	6140.6	5723.0	5456.8	5254.9	5176.8	5176.8
20°	7301.7	7384.3	7297.1	6760.2	6305.8	5810.2	5406.3	5103.4	4901.5	4869.3	4818.9
22.5°	7508.2	7641.3	7251.2	6572.0	5998.3	5378.8	4915.2	4800.5	4740.8	4690.4	4626.1
25°	7774.4	7769.8	7168.6	6397.6	5470.6	4864.8	4584.8	4575.6	4548.1	4529.7	4616.9
27.5°	8026.8	7921.3	7072.3	5966.2	4924.4	4474.7	4323.2	4424.2	4465.5	4437.9	4474.7
30°	8426.1	8251.7	6934.6	5507.3	4442.5	4080.0	4107.5	4245.2	4314.0	4355.3	4300.3
32.5°	8848.3	8582.2	6650.0	5030.0	4015.7	3832.1	3896.4	4038.7	4121.3	4167.2	4217.7
35°	9458.7	8839.2	6360.9	4405.8	3708.2	3680.7	3717.4	3795.4	3914.8	3946.9	3960.6
37.5°	10211.4	9229.3	5970.8	3905.6	3469.6	3501.7	3538.4	3566.0	3570.5	3630.2	3607.3
40°	10964.1	9559.7	5401.7	3428.3	3221.8	3396.2	3377.8	3327.3	3286.0	3230.9	3217.2
42.5°	11624.9	9848.8	4768.4	3024.4	3001.5	3286.0	3226.3	3097.8	3001.5	2960.2	2891.3
45°	12368.4	10257.3	4130.5	2772.0	2831.7	3152.9	3134.6	2937.2	2813.3	2666.4	2648.1
47.5°	13332.2	10684.1	3520.1	2510.4	2671.0	3102.4	3111.6	2859.2	2680.2	2482.9	2455.3
50°	14566.7	11299.1	3056.5	2400.3	2574.6	3029.0	3042.8	2753.6	2519.6	2317.6	2299.3
52.5°	15750.8	11927.8	2671.0	2230.4	2510.4	2941.8	2973.9	2657.3	2386.5	2134.1	2147.8
55°	16347.4	11698.4	2340.6	2106.5	2363.5	2799.5	2918.9	2588.4	2184.6	2010.2	2005.6
57.5°	16480.5	11133.9	2079.0	1978.0	2239.6	2648.1	2827.1	2381.9	2092.8	1945.9	1927.5
60°	16044.5	10147.1	1872.5	1840.3	2083.6	2492.0	2616.0	2271.7	2001.0	1881.7	1854.1
62.5°	14970.6	9123.7	1730.2	1776.1	1950.5	2322.2	2482.9	2193.7	1913.8	1831.2	1771.5
65°	12276.6	7503.7	1615.5	1652.2	1812.8	2157.0	2400.3	2106.5	1835.8	1757.7	1753.1
67.5°	8504.1	5172.2	1523.7	1592.5	1702.7	2037.7	2317.6	2010.2	1734.8	1707.3	1670.5
70°	4355.3	2758.2	1404.4	1459.4	1583.3	1886.2	2170.8	1909.2	1629.2	1624.6	1578.8
72.5°	2207.5	1615.5	1266.7	1349.3	1436.5	1688.9	1987.2	1776.1	1496.1	1445.7	1372.2
73°	1909.2	1496.1	1243.7	1317.2	1399.8	1633.8	1932.1	1744.0	1477.8	1404.4	1335.5
75°	1390.6	1179.5	1115.2	1188.7	1252.9	1473.2	1748.6	1597.1	1358.5	1280.4	1216.2
77.5°	1041.8	908.7	927.1	1009.7	1064.7	1271.3	1555.8	1445.7	1230.0	1124.4	1096.9
80°	766.4	693.0	766.4	844.4	885.8	1119.8	1418.1	1252.9	1037.2	917.9	894.9
82.5°	546.1	504.8	592.0	642.5	660.9	927.1	1275.9	1000.5	784.8	628.7	578.3
85°	312.1	307.5	399.3	394.7	408.5	541.5	839.9	665.5	504.8	385.5	376.3
87.5°	137.7	151.4	201.9	160.6	169.8	257.0	358.0	247.8	206.5	114.7	87.2
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)