

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: P478849

Luminaire Tested: **IFLD-L-SA8A-727-U-5NQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P478849  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

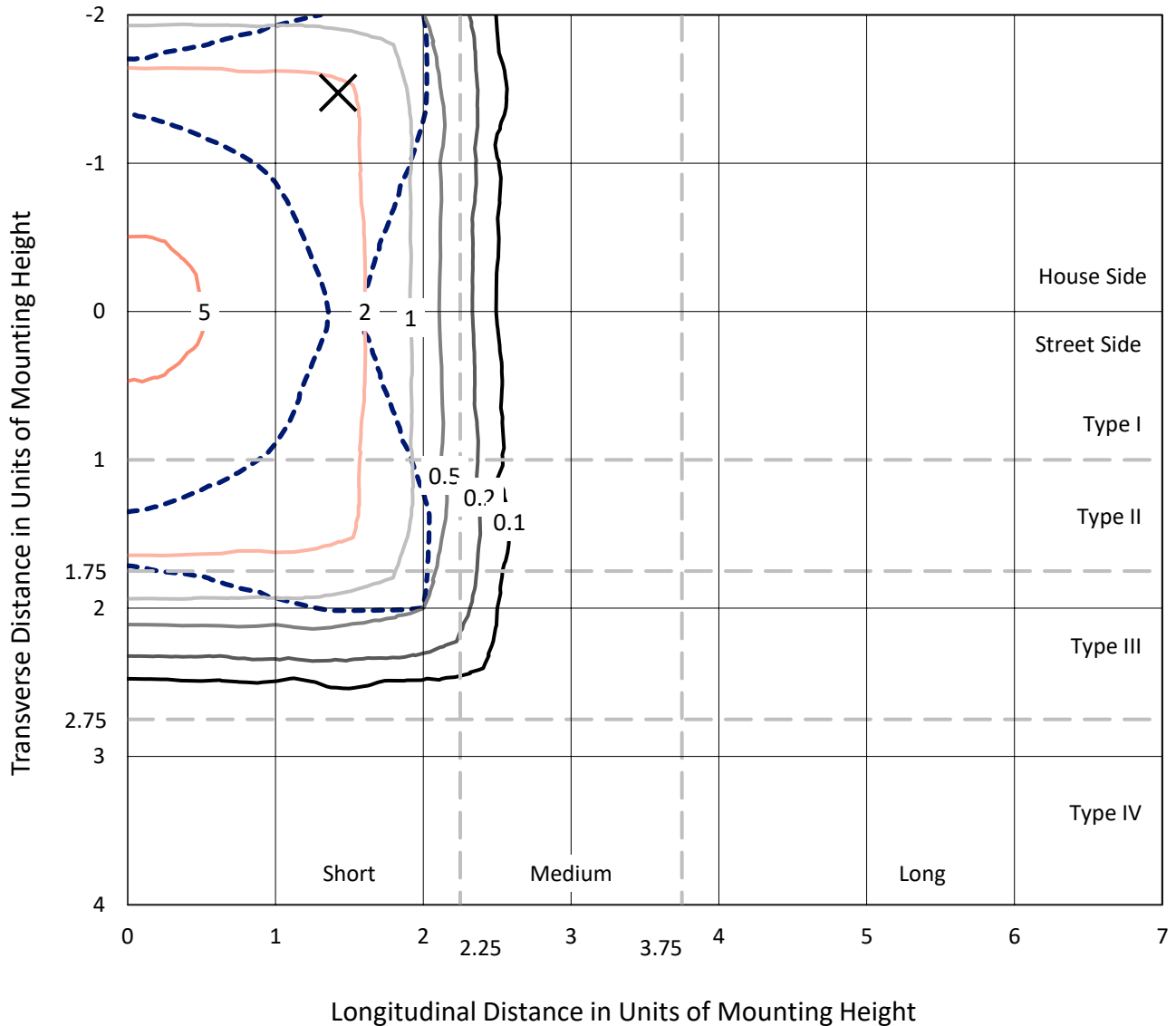
Lumens per Lamp: N/A  
Luminaire Lumens: 28573.3 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 247.8  
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

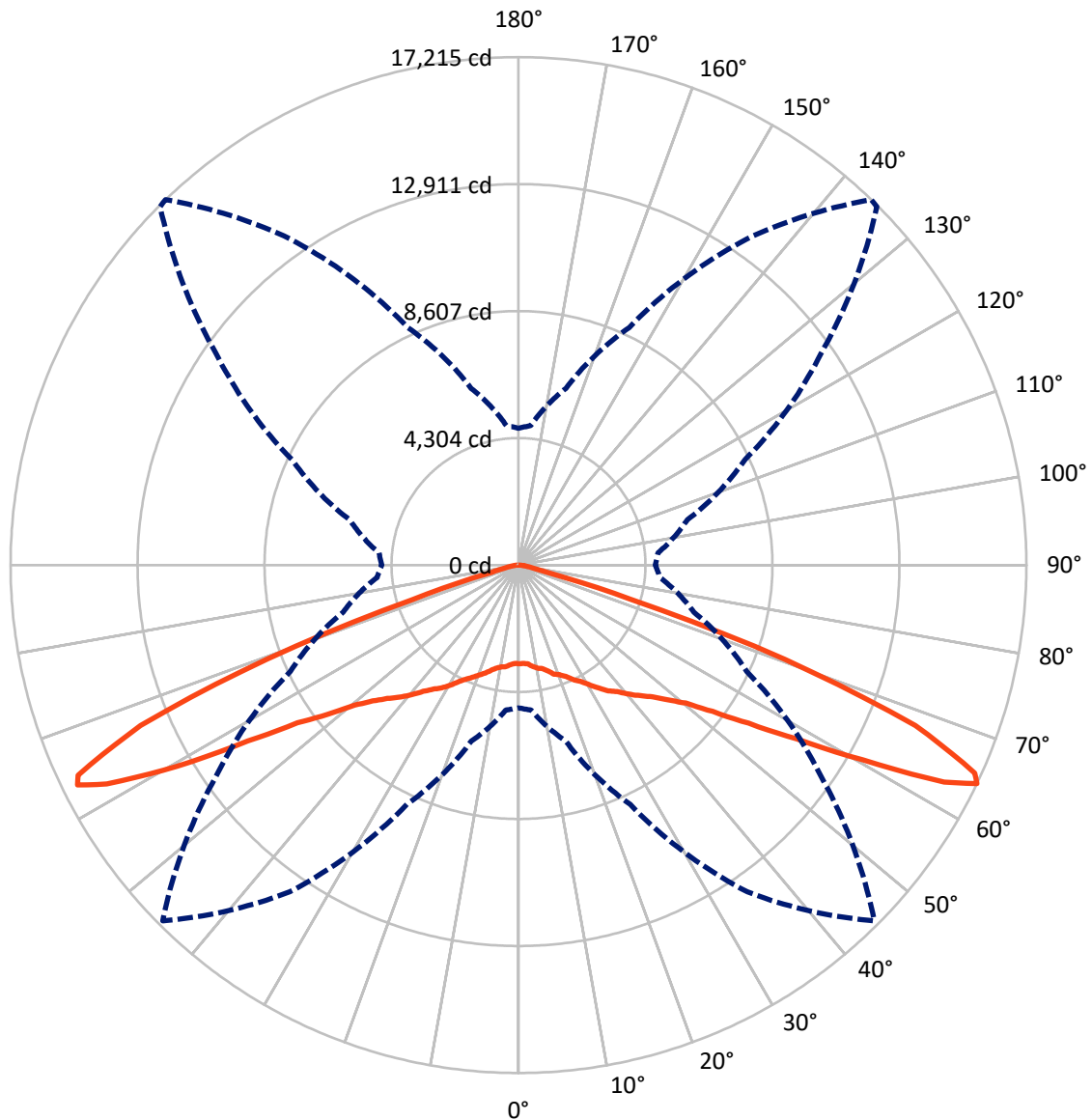
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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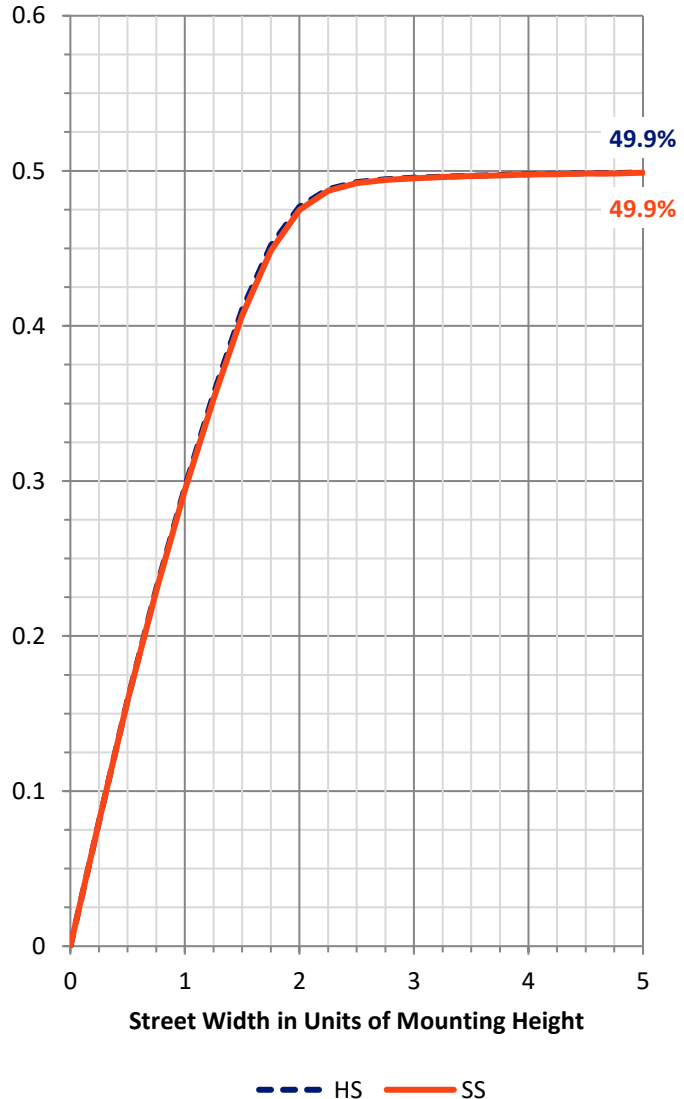
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14300.2	0.0	14300.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14273.0	0.0	14273.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28573.3	0.0	28573.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.7	1.2
10°-20°	1059.4	3.7
20°-30°	1991.1	7.0
30°-40°	3283.6	11.5
40°-50°	5135.4	18.0
50°-60°	8297.5	29.0
60°-70°	7471.4	26.1
70°-80°	885.0	3.1
80°-90°	121.2	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°	28573.3	100.0
0°-180°	28573.3	100.0

**Coefficient of Utilization**



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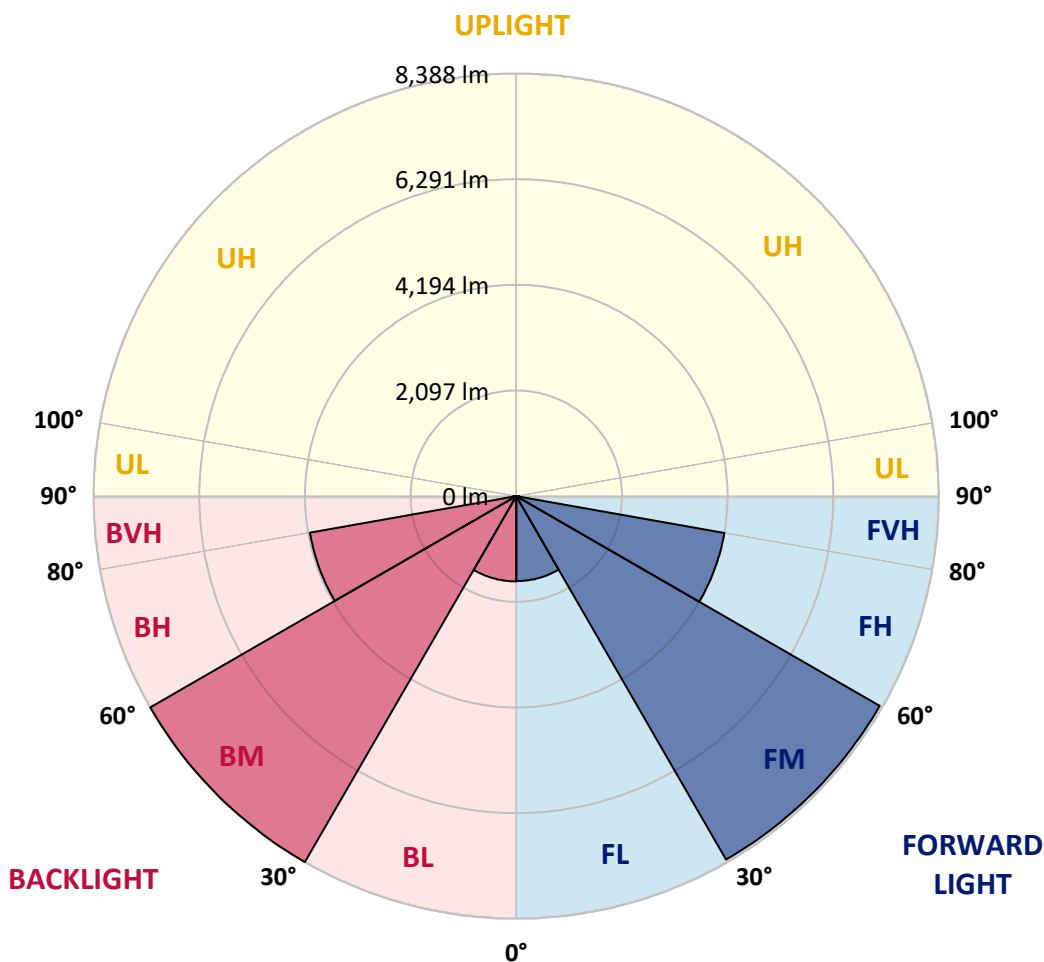
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1686.3	5.9			
FM	(30°-60°)	8328.2	29.1			
FH	(60°-80°)	4196.3	14.7			G2/5000
FVH	(80°-90°)	62.1	0.2			G1/100
BL	(0°-30°)	1692.9	5.9	B3/2500		
BM	(30°-60°)	8388.3	29.4	B4/8500		
BH	(60°-80°)	4160.1	14.6	B4/5000		G2/5000
BVH	(80°-90°)	59.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3
2.5°	3306.0	3312.6	3371.6	3348.6	3368.3	3332.2	3358.4	3414.1	3348.6	3397.8	3414.1
5°	3342.1	3351.9	3351.9	3374.8	3387.9	3381.4	3397.8	3374.8	3437.1	3410.9	3450.2
7.5°	3473.1	3456.7	3430.5	3450.2	3453.5	3469.8	3486.2	3515.7	3505.9	3483.0	3522.3
10°	3496.1	3483.0	3522.3	3525.5	3509.2	3496.1	3512.4	3512.4	3541.9	3548.5	3548.5
12.5°	3535.4	3548.5	3545.2	3571.4	3574.7	3564.9	3591.1	3640.2	3627.1	3637.0	3614.0
15°	3686.1	3669.7	3666.4	3692.7	3735.2	3673.0	3718.9	3715.6	3702.5	3722.1	3669.7
17.5°	3817.2	3764.7	3787.7	3830.3	3813.9	3827.0	3886.0	3833.5	3846.6	3823.7	3807.3
20°	3931.8	3889.2	3892.5	3908.9	3908.9	3948.2	3971.2	3951.5	3938.4	3935.1	3941.7
22.5°	4059.6	4010.5	4013.8	4082.6	4105.5	4092.4	4076.0	4108.8	4115.3	4089.1	4118.6
25°	4154.6	4207.1	4223.4	4256.2	4207.1	4243.1	4230.0	4292.3	4331.6	4279.2	4315.2
27.5°	4403.7	4380.7	4423.3	4420.0	4459.4	4423.3	4446.3	4465.9	4482.3	4485.6	4469.2
30°	4626.5	4636.3	4593.7	4708.4	4616.6	4675.6	4714.9	4724.8	4744.4	4744.4	4695.3
32.5°	4862.4	4842.7	4911.5	4885.3	4868.9	4914.8	4872.2	5006.5	4927.9	4973.8	4918.1
35°	5127.8	5127.8	5154.0	5226.1	5127.8	5098.3	5176.9	5232.6	5232.6	5150.7	5170.4
37.5°	5425.9	5399.7	5432.5	5524.2	5448.9	5350.6	5494.7	5517.7	5501.3	5478.4	5439.0
40°	5635.6	5629.1	5694.6	5815.8	5707.7	5688.1	5714.3	5776.5	5796.2	5819.1	5766.7
42.5°	5989.5	6019.0	6209.0	6179.5	6091.1	6022.3	6015.7	6248.3	6192.6	6133.7	6104.2
45°	6513.7	6487.5	6585.8	6589.1	6474.4	6323.7	6356.5	6569.4	6664.5	6533.4	6582.6
47.5°	6929.9	6943.0	7011.8	7152.7	6887.3	6730.0	6851.2	7195.3	7165.8	7116.6	7162.5
50°	7486.9	7545.9	7762.1	7713.0	7477.0	7283.7	7549.1	7873.5	7909.5	7729.3	7696.6
52.5°	8256.9	8348.6	8466.6	8505.9	8279.8	8211.0	8227.4	8630.4	8541.9	8368.3	8256.9
55°	8931.8	8974.4	9190.7	9515.0	9498.7	9167.7	9357.8	9508.5	9148.1	8790.9	8820.4
57.5°	9220.2	9239.8	9842.7	10491.5	10878.1	10953.4	10737.2	10229.3	9370.9	8682.8	8640.2
60°	8502.6	8689.4	9416.8	10881.4	12647.4	13519.0	12080.6	10311.2	8849.9	8014.4	7952.1
62.5°	6795.5	6805.4	7886.6	10108.1	13748.3	16032.1	12595.0	9541.3	7460.7	6513.7	6264.7
64°	4839.4	4931.2	6173.0	8948.2	13519.0	17054.4	12532.7	8535.4	6150.1	4806.7	4633.0
65°	3473.1	3600.9	4800.1	7768.7	12981.6	16933.1	12346.0	7670.4	4973.8	3669.7	3492.8
67.5°	1277.8	1330.3	1884.0	3886.0	9321.7	14429.8	9783.7	4216.9	2185.4	1556.4	1399.1
70°	593.1	596.3	697.9	1284.4	4076.0	9649.4	4669.1	1582.6	822.4	652.0	606.2
72.5°	435.8	445.6	488.2	593.1	1199.2	4085.8	1533.4	648.8	481.7	425.9	416.1
75°	353.9	360.4	373.5	429.2	553.7	1094.4	622.5	448.9	383.4	344.0	330.9
77.5°	272.0	272.0	301.4	327.7	367.0	511.1	412.8	357.1	311.3	272.0	262.1
80°	196.6	199.9	235.9	255.6	249.0	337.5	298.2	294.9	255.6	213.0	196.6
82.5°	114.7	124.5	170.4	183.5	176.9	199.9	216.3	229.4	199.9	147.4	134.3
85°	65.5	68.8	98.3	101.6	101.6	95.0	124.5	137.6	134.3	91.7	81.9
87.5°	19.7	19.7	26.2	26.2	29.5	32.8	49.1	59.0	65.5	45.9	42.6
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°	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3
2.5°	3397.8	3348.6	3351.9	3365.0	3322.4	3338.8	3387.9	3351.9	3342.1	3322.4	3312.6
5°	3381.4	3433.8	3414.1	3420.7	3410.9	3365.0	3358.4	3387.9	3404.3	3374.8	3433.8
7.5°	3496.1	3473.1	3446.9	3456.7	3433.8	3473.1	3499.3	3440.4	3469.8	3453.5	3420.7
10°	3561.6	3519.0	3538.7	3532.1	3515.7	3555.0	3528.8	3522.3	3496.1	3460.0	3512.4
12.5°	3584.5	3633.7	3666.4	3610.7	3620.6	3600.9	3584.5	3584.5	3555.0	3545.2	3555.0
15°	3686.1	3728.7	3715.6	3758.2	3702.5	3722.1	3741.8	3692.7	3718.9	3646.8	3702.5
17.5°	3872.9	3836.8	3882.7	3827.0	3846.6	3886.0	3823.7	3823.7	3843.4	3804.1	3754.9
20°	3990.8	3974.4	3958.1	3961.3	3928.6	3964.6	3944.9	3935.1	3905.6	3918.7	3944.9
22.5°	4102.2	4079.3	4085.8	4095.7	4118.6	4102.2	4092.4	4102.2	4030.1	4095.7	4003.9
25°	4239.8	4302.1	4282.4	4325.0	4259.5	4302.1	4298.8	4236.6	4275.9	4249.7	4230.0
27.5°	4469.2	4436.4	4465.9	4413.5	4459.4	4462.6	4423.3	4528.2	4482.3	4475.7	4462.6
30°	4764.1	4741.1	4721.5	4692.0	4728.0	4698.5	4731.3	4741.1	4698.5	4665.8	4603.5
32.5°	4931.2	4993.4	5016.4	4944.3	4947.6	4963.9	4934.5	4905.0	4931.2	4941.0	4931.2
35°	5167.1	5226.1	5239.2	5183.5	5154.0	5235.9	5176.9	5275.2	5190.0	5193.3	5104.8
37.5°	5442.3	5458.7	5570.1	5507.9	5481.6	5442.3	5550.4	5537.3	5557.0	5399.7	5478.4
40°	5753.6	5812.6	5874.8	5717.5	5714.3	5750.3	5743.8	5819.1	5783.1	5760.1	5704.4
42.5°	6094.3	6218.9	6228.7	6123.8	6058.3	6051.8	6084.5	6251.6	6254.9	6104.2	6038.6
45°	6546.5	6684.1	6648.1	6444.9	6372.9	6363.0	6523.6	6595.7	6657.9	6598.9	6543.2
47.5°	7110.1	7201.8	7175.6	6988.8	6756.2	6821.7	6979.0	7205.1	7139.6	7060.9	6995.4
50°	7713.0	7821.1	7765.4	7578.6	7355.8	7355.8	7549.1	7837.5	7817.8	7663.8	7604.8
52.5°	8381.4	8538.6	8666.4	8401.0	8214.3	8243.8	8548.5	8653.3	8604.2	8496.0	8446.9
55°	8879.4	9180.8	9443.0	9456.1	9465.9	9462.6	9541.3	9646.1	9295.5	9121.9	8944.9
57.5°	8758.2	9328.3	10226.1	10835.5	11015.7	11110.7	11084.5	10599.6	9770.6	9200.5	9259.5
60°	7893.2	8823.7	10271.9	12228.0	13538.6	13407.6	12929.2	11012.4	9508.5	8545.2	8424.0
62.5°	6297.5	7418.1	9501.9	12621.2	16231.9	16192.6	13689.4	10059.0	7922.7	6703.8	6628.4
64°	4744.4	5924.0	8476.4	12519.6	17175.6	17214.9	13496.0	8886.0	6199.2	4744.4	4629.7
65°	3630.4	4724.8	7470.5	12309.9	16972.4	16995.4	12958.7	7673.6	4711.7	3368.3	3243.8
67.5°	1445.0	2011.8	4053.1	9334.8	14574.0	14511.8	9246.4	3712.3	1802.1	1173.0	1150.1
70°	616.0	766.7	1422.0	4423.3	9757.5	9577.3	3981.0	1205.8	668.4	560.3	557.0
72.5°	422.7	468.5	609.4	1366.3	4056.3	3961.3	1133.7	560.3	455.4	419.4	419.4
75°	340.8	373.5	442.3	573.4	1074.7	1035.4	534.1	412.8	363.7	337.5	334.2
77.5°	265.4	298.2	347.3	396.5	491.5	488.2	357.1	311.3	281.8	262.1	255.6
80°	209.7	242.5	275.2	281.8	321.1	314.5	242.5	245.7	229.4	190.0	186.8
82.5°	144.2	196.6	219.5	199.9	190.0	190.0	173.7	173.7	160.6	118.0	108.1
85°	88.5	131.1	137.6	118.0	88.5	88.5	95.0	91.7	85.2	62.3	59.0
87.5°	45.9	62.3	55.7	45.9	29.5	29.5	26.2	19.7	19.7	16.4	16.4
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)