

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: P478888

Luminaire Tested: **IFLD-L-SA8A-730-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478888  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

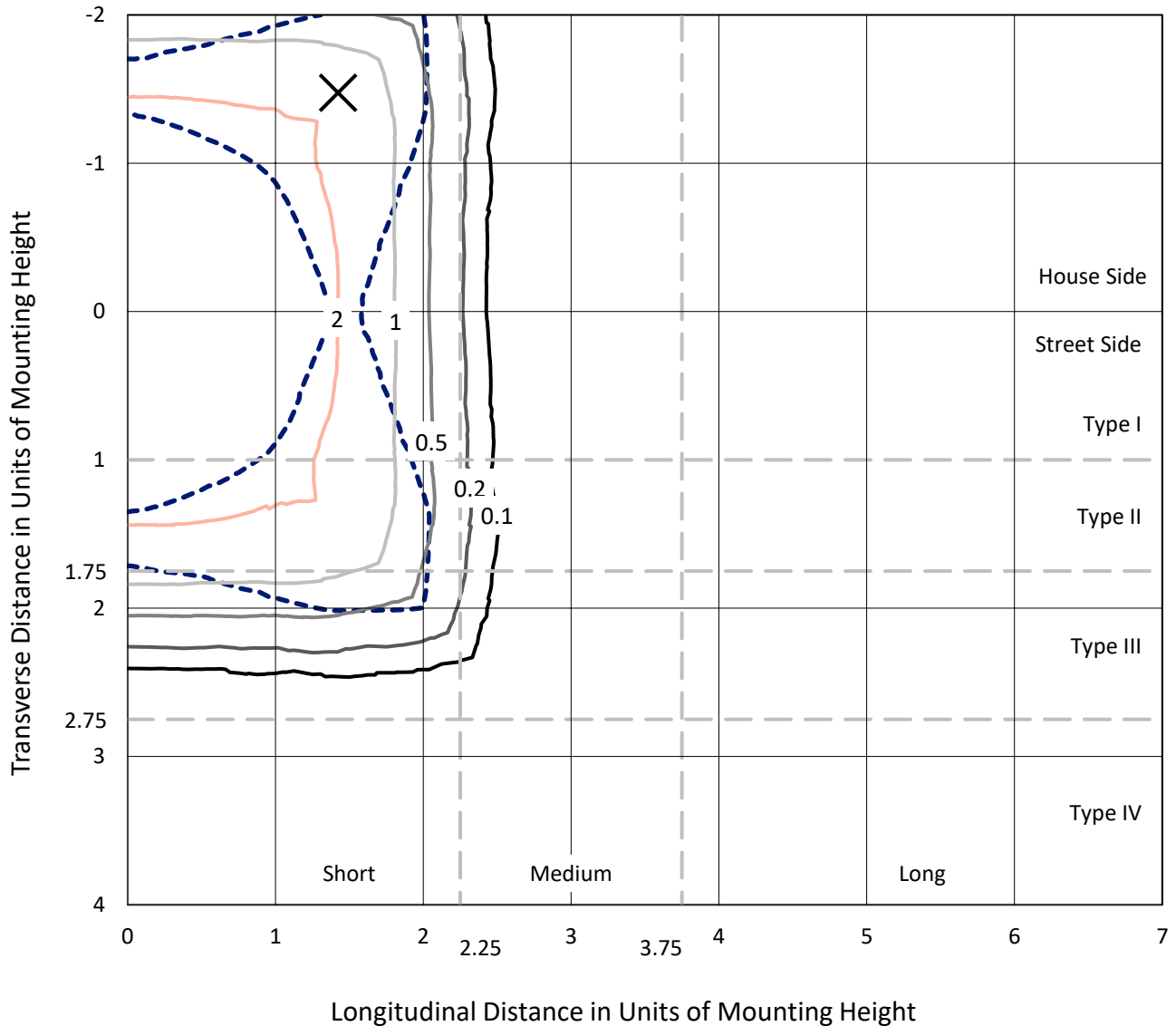
Lumens per Lamp: N/A  
Luminaire Lumens: 31111.8 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

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

REPORT NUMBER: P478888  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

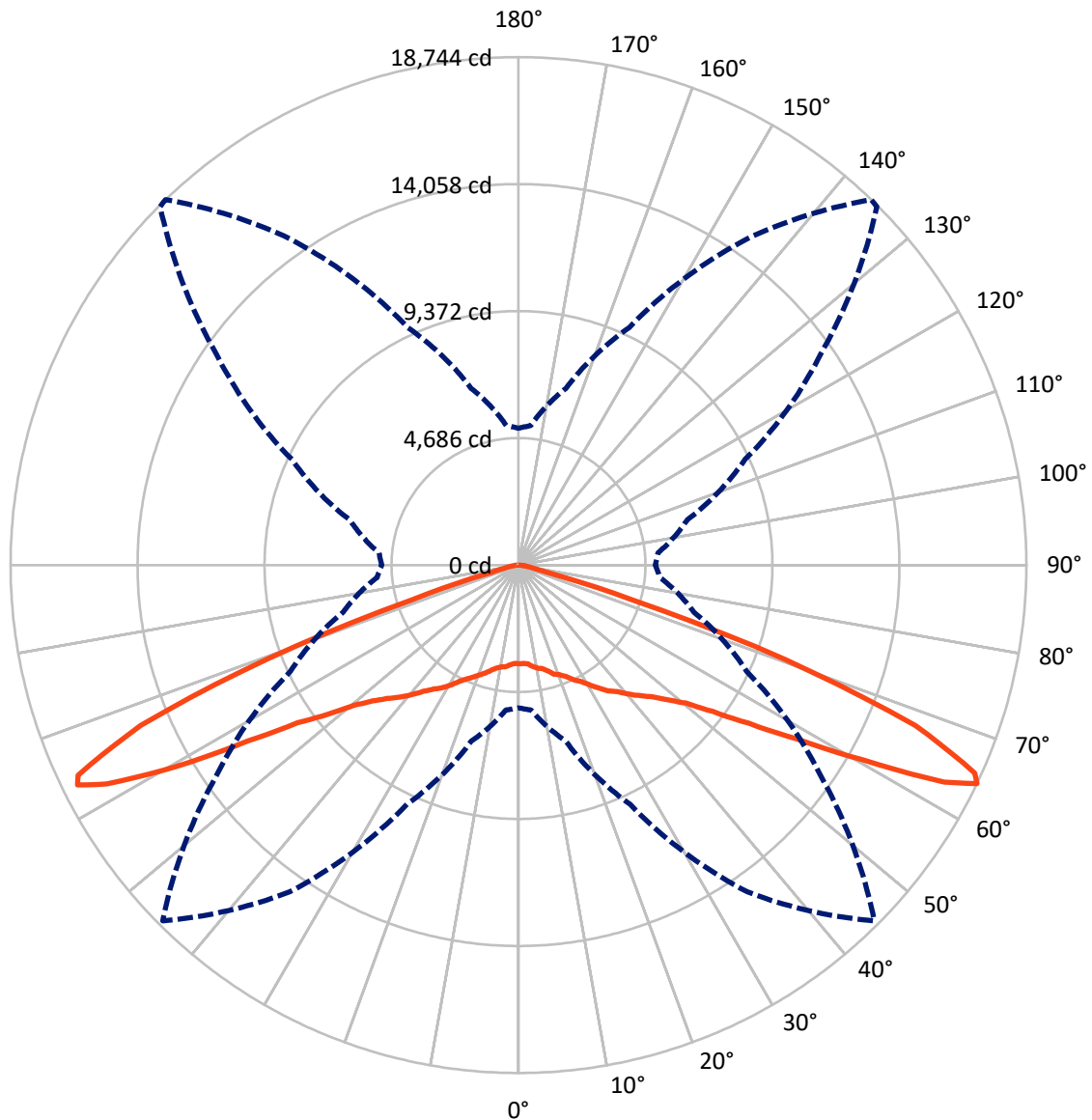
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P478888  
CATALOG NUMBER: IFLD-L-SA8A-730-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P478888

CATALOG NUMBER: IFLD-L-SA8A-730-U-5NQ

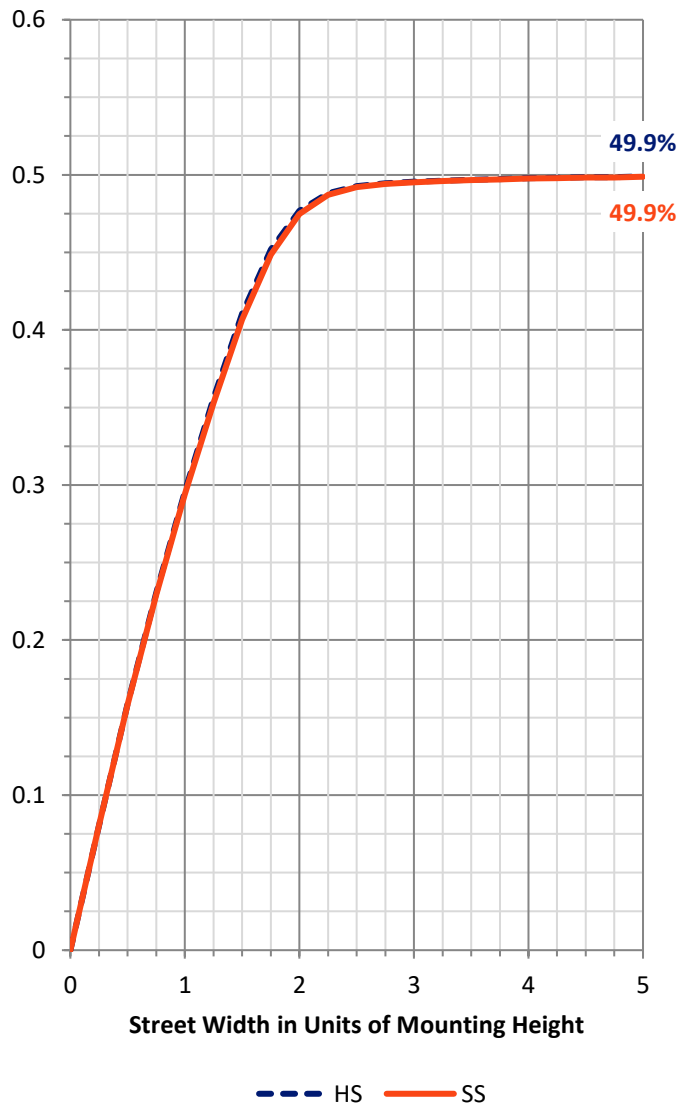
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15570.7	0.0	15570.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15541.1	0.0	15541.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31111.8	0.0	31111.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.9	1.2
10°-20°	1153.5	3.7
20°-30°	2168.0	7.0
30°-40°	3575.4	11.5
40°-50°	5591.6	18.0
50°-60°	9034.7	29.0
60°-70°	8135.2	26.1
70°-80°	963.7	3.1
80°-90°	131.9	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°	31111.8	100.0
0°-180°	31111.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478888

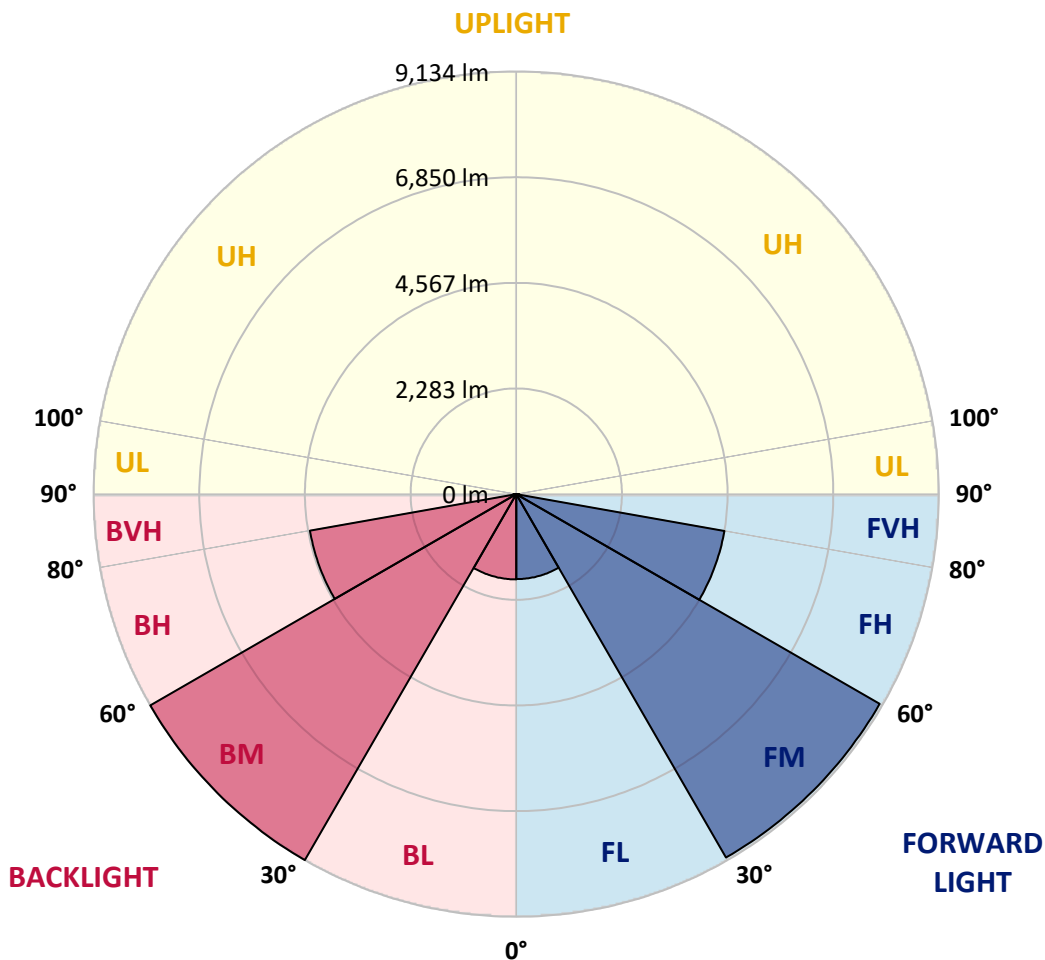
CATALOG NUMBER: IFLD-L-SA8A-730-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1836.2	5.9			
FM (30°-60°)	9068.1	29.1			
FH (60°-80°)	4569.1	14.7			G2/5000
FVH (80°-90°)	67.7	0.2			G1/100
BL (0°-30°)	1843.3	5.9	B3/2500		
BM (30°-60°)	9133.6	29.4	B5		
BH (60°-80°)	4529.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	64.2	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-G2**

Type V Short





REPORT NUMBER: P478888  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6
2.5°	3599.7	3606.9	3671.1	3646.1	3667.5	3628.3	3656.8	3717.5	3646.1	3699.6	3717.5
5°	3639.0	3649.7	3649.7	3674.7	3688.9	3681.8	3699.6	3674.7	3742.4	3713.9	3756.7
7.5°	3781.7	3763.9	3735.3	3756.7	3760.3	3778.1	3796.0	3828.1	3817.4	3792.4	3835.2
10°	3806.7	3792.4	3835.2	3838.8	3820.9	3806.7	3824.5	3824.5	3856.6	3863.7	3863.7
12.5°	3849.5	3863.7	3860.2	3888.7	3892.3	3881.6	3910.1	3963.6	3949.4	3960.1	3935.1
15°	4013.6	3995.7	3992.2	4020.7	4067.1	3999.3	4049.3	4045.7	4031.4	4052.8	3995.7
17.5°	4156.3	4099.2	4124.2	4170.6	4152.7	4167.0	4231.2	4174.1	4188.4	4163.4	4145.6
20°	4281.2	4234.8	4238.3	4256.2	4256.2	4299.0	4324.0	4302.6	4288.3	4284.7	4291.9
22.5°	4420.3	4366.8	4370.3	4445.3	4470.2	4456.0	4438.1	4473.8	4480.9	4452.4	4484.5
25°	4523.8	4580.8	4598.7	4634.4	4580.8	4620.1	4605.8	4673.6	4716.4	4659.3	4698.6
27.5°	4794.9	4769.9	4816.3	4812.7	4855.5	4816.3	4841.3	4862.7	4880.5	4884.1	4866.2
30°	5037.5	5048.2	5001.8	5126.7	5026.8	5091.0	5133.8	5144.5	5165.9	5165.9	5112.4
32.5°	5294.4	5273.0	5347.9	5319.3	5301.5	5351.4	5305.1	5451.3	5365.7	5415.7	5355.0
35°	5583.3	5583.3	5611.9	5690.4	5583.3	5551.2	5636.9	5697.5	5697.5	5608.3	5629.7
37.5°	5908.0	5879.5	5915.1	6015.0	5933.0	5825.9	5982.9	6007.9	5990.1	5965.1	5922.3
40°	6136.3	6129.2	6200.5	6332.5	6214.8	6193.4	6221.9	6289.7	6311.1	6336.1	6279.0
42.5°	6521.6	6553.7	6760.7	6728.6	6632.2	6557.3	6550.2	6803.5	6742.8	6678.6	6646.5
45°	7092.5	7063.9	7170.9	7174.5	7049.6	6885.5	6921.2	7153.1	7256.6	7113.9	7167.4
47.5°	7545.5	7559.8	7634.7	7788.1	7499.2	7327.9	7459.9	7834.5	7802.4	7748.9	7798.8
50°	8152.0	8216.3	8451.7	8398.2	8141.3	7930.8	8219.8	8573.0	8612.3	8416.0	8380.4
52.5°	8990.4	9090.3	9218.8	9261.6	9015.4	8940.5	8958.3	9397.1	9300.8	9111.7	8990.4
55°	9725.4	9771.7	10007.2	10360.4	10342.6	9982.2	10189.2	10353.3	9960.8	9572.0	9604.1
57.5°	10039.3	10060.7	10717.2	11423.6	11844.5	11926.6	11691.1	11138.1	10203.4	9454.2	9407.8
60°	9258.0	9461.4	10253.4	11848.1	13771.1	14720.0	13153.9	11227.3	9636.2	8726.4	8658.6
62.5°	7399.3	7410.0	8587.3	11006.1	14969.8	17456.4	13714.0	10388.9	8123.5	7092.5	6821.3
64°	5269.4	5369.3	6721.4	9743.2	14720.0	18569.5	13646.2	9293.7	6696.4	5233.7	5044.6
65°	3781.7	3920.8	5226.6	8458.9	14135.0	18437.5	13442.8	8351.8	5415.7	3995.7	3803.1
67.5°	1391.4	1448.5	2051.4	4231.2	10149.9	15711.8	10652.9	4591.5	2379.6	1694.6	1523.4
70°	645.7	649.3	759.9	1398.5	4438.1	10506.7	5083.9	1723.2	895.5	710.0	660.0
72.5°	474.5	485.2	531.6	645.7	1305.8	4448.8	1669.7	706.4	524.4	463.8	453.1
75°	385.3	392.4	406.7	467.4	602.9	1191.6	677.8	488.8	417.4	374.6	360.3
77.5°	296.1	296.1	328.2	356.8	399.6	556.6	449.5	388.9	338.9	296.1	285.4
80°	214.1	217.6	256.9	278.3	271.1	367.5	324.7	321.1	278.3	231.9	214.1
82.5°	124.9	135.6	185.5	199.8	192.7	217.6	235.5	249.7	217.6	160.5	146.3
85°	71.4	74.9	107.0	110.6	110.6	103.5	135.6	149.8	146.3	99.9	89.2
87.5°	21.4	21.4	28.5	28.5	32.1	35.7	53.5	64.2	71.4	49.9	46.4
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: P478888  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-5NQ

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6	3642.6
2.5°	3699.6	3646.1	3649.7	3664.0	3617.6	3635.4	3688.9	3649.7	3639.0	3617.6	3606.9
5°	3681.8	3738.9	3717.5	3724.6	3713.9	3664.0	3656.8	3688.9	3706.8	3674.7	3738.9
7.5°	3806.7	3781.7	3753.1	3763.9	3738.9	3781.7	3810.2	3746.0	3778.1	3760.3	3724.6
10°	3878.0	3831.6	3853.0	3845.9	3828.1	3870.9	3842.3	3835.2	3806.7	3767.4	3824.5
12.5°	3903.0	3956.5	3992.2	3931.5	3942.2	3920.8	3903.0	3903.0	3870.9	3860.2	3870.9
15°	4013.6	4060.0	4045.7	4092.1	4031.4	4052.8	4074.2	4020.7	4049.3	3970.8	4031.4
17.5°	4216.9	4177.7	4227.6	4167.0	4188.4	4231.2	4163.4	4163.4	4184.8	4142.0	4088.5
20°	4345.4	4327.5	4309.7	4313.3	4277.6	4316.8	4295.4	4284.7	4252.6	4266.9	4295.4
22.5°	4466.7	4441.7	4448.8	4459.5	4484.5	4466.7	4456.0	4466.7	4388.2	4459.5	4359.6
25°	4616.5	4684.3	4662.9	4709.3	4637.9	4684.3	4680.7	4612.9	4655.8	4627.2	4605.8
27.5°	4866.2	4830.6	4862.7	4805.6	4855.5	4859.1	4816.3	4930.5	4880.5	4873.4	4859.1
30°	5187.3	5162.4	5141.0	5108.8	5148.1	5116.0	5151.7	5162.4	5116.0	5080.3	5012.5
32.5°	5369.3	5437.1	5462.0	5383.6	5387.1	5405.0	5372.9	5340.7	5369.3	5380.0	5369.3
35°	5626.2	5690.4	5704.6	5644.0	5611.9	5701.1	5636.9	5743.9	5651.1	5654.7	5558.4
37.5°	5925.8	5943.7	6065.0	5997.2	5968.6	5925.8	6043.6	6029.3	6050.7	5879.5	5965.1
40°	6264.8	6329.0	6396.8	6225.5	6221.9	6261.2	6254.1	6336.1	6296.9	6271.9	6211.2
42.5°	6635.8	6771.4	6782.1	6667.9	6596.6	6589.4	6625.1	6807.0	6810.6	6646.5	6575.1
45°	7128.1	7278.0	7238.7	7017.5	6939.0	6928.3	7103.2	7181.6	7249.4	7185.2	7124.6
47.5°	7741.8	7841.7	7813.1	7609.8	7356.5	7427.8	7599.1	7845.2	7773.9	7688.2	7616.9
50°	8398.2	8515.9	8455.3	8251.9	8009.3	8009.3	8219.8	8533.8	8512.4	8344.7	8280.5
52.5°	9126.0	9297.2	9436.4	9147.4	8944.1	8976.2	9308.0	9422.1	9368.6	9250.9	9197.4
55°	9668.3	9996.5	10281.9	10296.2	10306.9	10303.3	10388.9	10503.1	10121.4	9932.3	9739.6
57.5°	9536.3	10157.0	11134.6	11798.2	11994.4	12097.8	12069.3	11541.3	10638.7	10017.9	10082.1
60°	8594.4	9607.6	11184.5	13314.4	14741.5	14598.7	14077.9	11990.8	10353.3	9304.4	9172.4
62.5°	6857.0	8077.1	10346.1	13742.5	17674.0	17631.2	14905.6	10952.6	8626.5	7299.4	7217.3
64°	5165.9	6450.3	9229.5	13631.9	18701.5	18744.3	14695.1	9675.4	6750.0	5165.9	5041.1
65°	3952.9	5144.5	8134.2	13403.6	18480.3	18505.3	14110.0	8355.4	5130.3	3667.5	3532.0
67.5°	1573.3	2190.5	4413.2	10164.2	15868.8	15801.0	10067.9	4042.1	1962.2	1277.2	1252.2
70°	670.7	834.8	1548.4	4816.3	10624.4	10428.2	4334.7	1312.9	727.8	610.1	606.5
72.5°	460.2	510.2	663.6	1487.7	4416.7	4313.3	1234.4	610.1	495.9	456.7	456.7
75°	371.0	406.7	481.6	624.3	1170.2	1127.4	581.5	449.5	396.0	367.5	363.9
77.5°	289.0	324.7	378.2	431.7	535.1	531.6	388.9	338.9	306.8	285.4	278.3
80°	228.3	264.0	299.7	306.8	349.6	342.5	264.0	267.6	249.7	206.9	203.4
82.5°	157.0	214.1	239.0	217.6	206.9	206.9	189.1	189.1	174.8	128.4	117.7
85°	96.3	142.7	149.8	128.4	96.3	96.3	103.5	99.9	92.8	67.8	64.2
87.5°	49.9	67.8	60.6	49.9	32.1	32.1	28.5	21.4	21.4	17.8	17.8
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)