

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: P478922

Luminaire Tested: **IFLD-L-SA7A-735-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478922  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

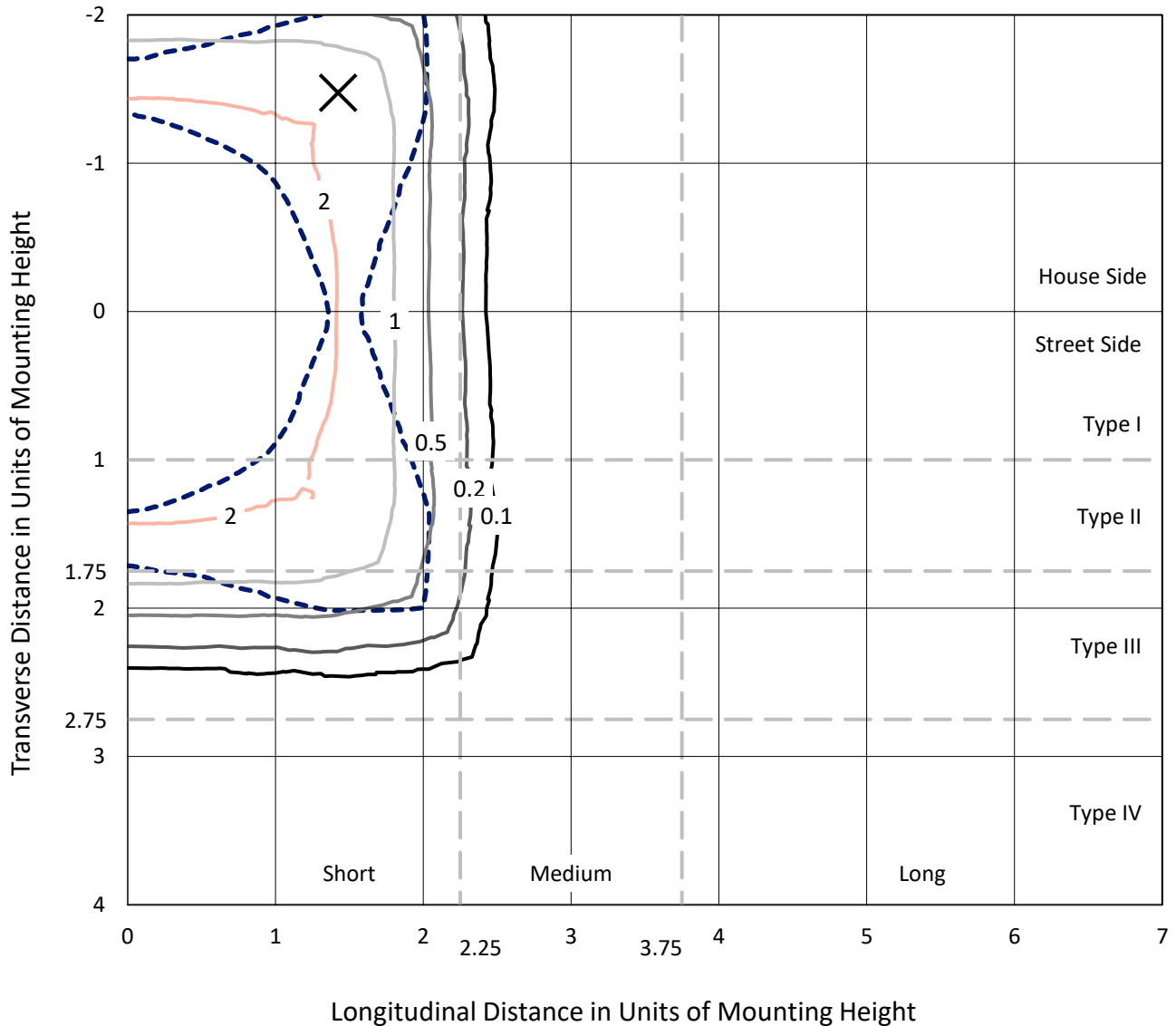
Lumens per Lamp: N/A  
Luminaire Lumens: 30790.6 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

Input Watts (W): 217.6  
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: P478922  
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### Iso-Footcandle Lines of Horizontal Illumination

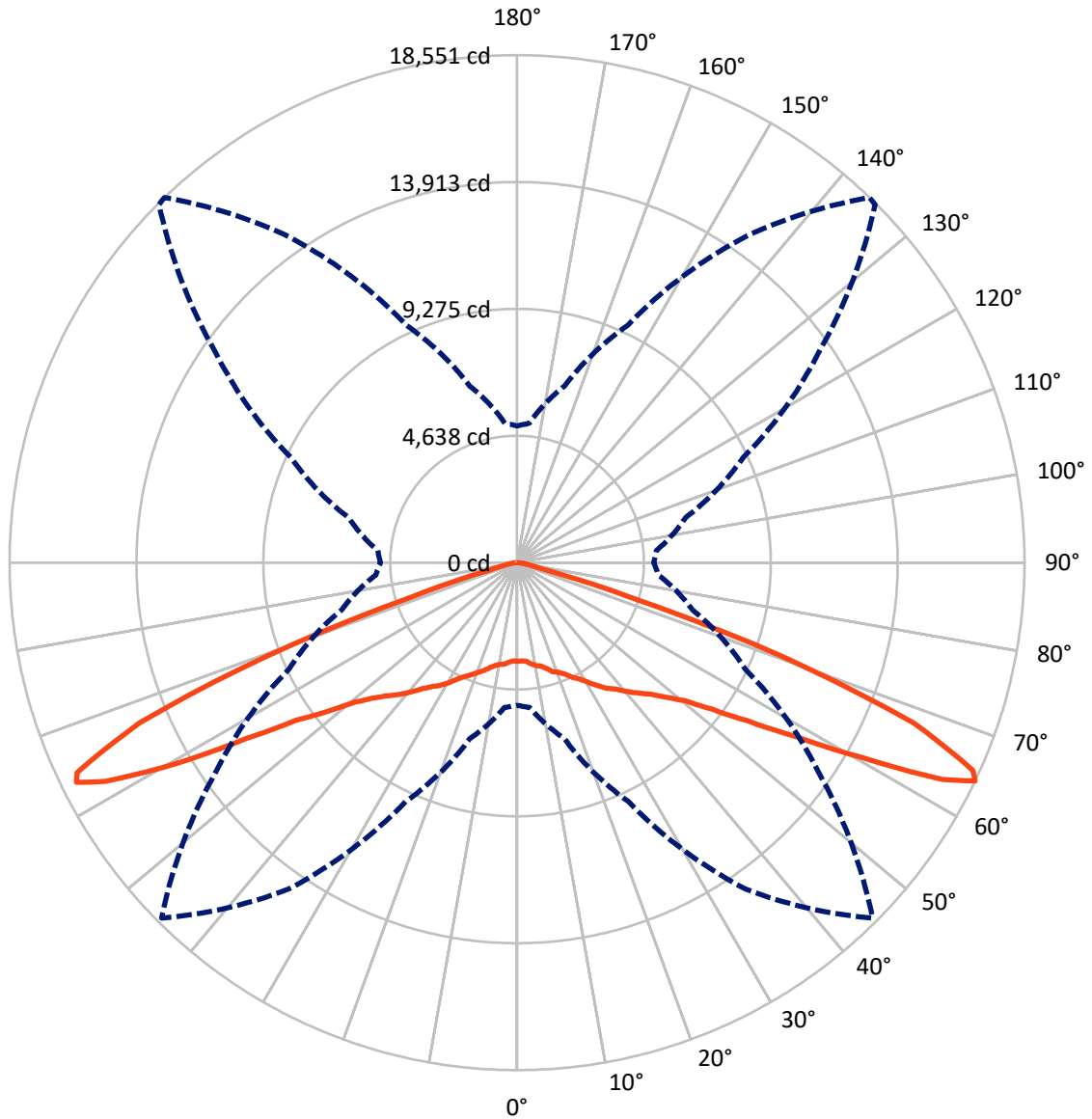
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P478922  
CATALOG NUMBER: IFLD-L-SA7A-735-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P478922

CATALOG NUMBER: IFLD-L-SA7A-735-U-5NQ

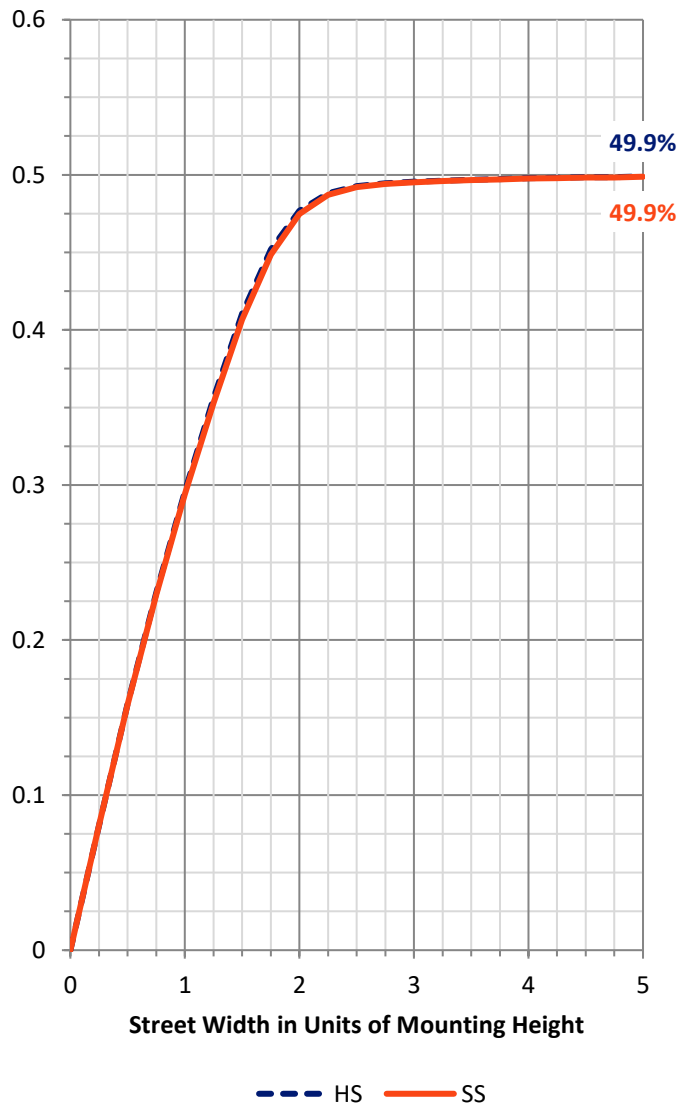
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15410.0	0.0	15410.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15380.6	0.0	15380.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30790.6	0.0	30790.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.2	1.2
10°-20°	1141.6	3.7
20°-30°	2145.6	7.0
30°-40°	3538.5	11.5
40°-50°	5533.9	18.0
50°-60°	8941.4	29.0
60°-70°	8051.2	26.1
70°-80°	953.7	3.1
80°-90°	130.5	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°	30790.6	100.0
0°-180°	30790.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478922

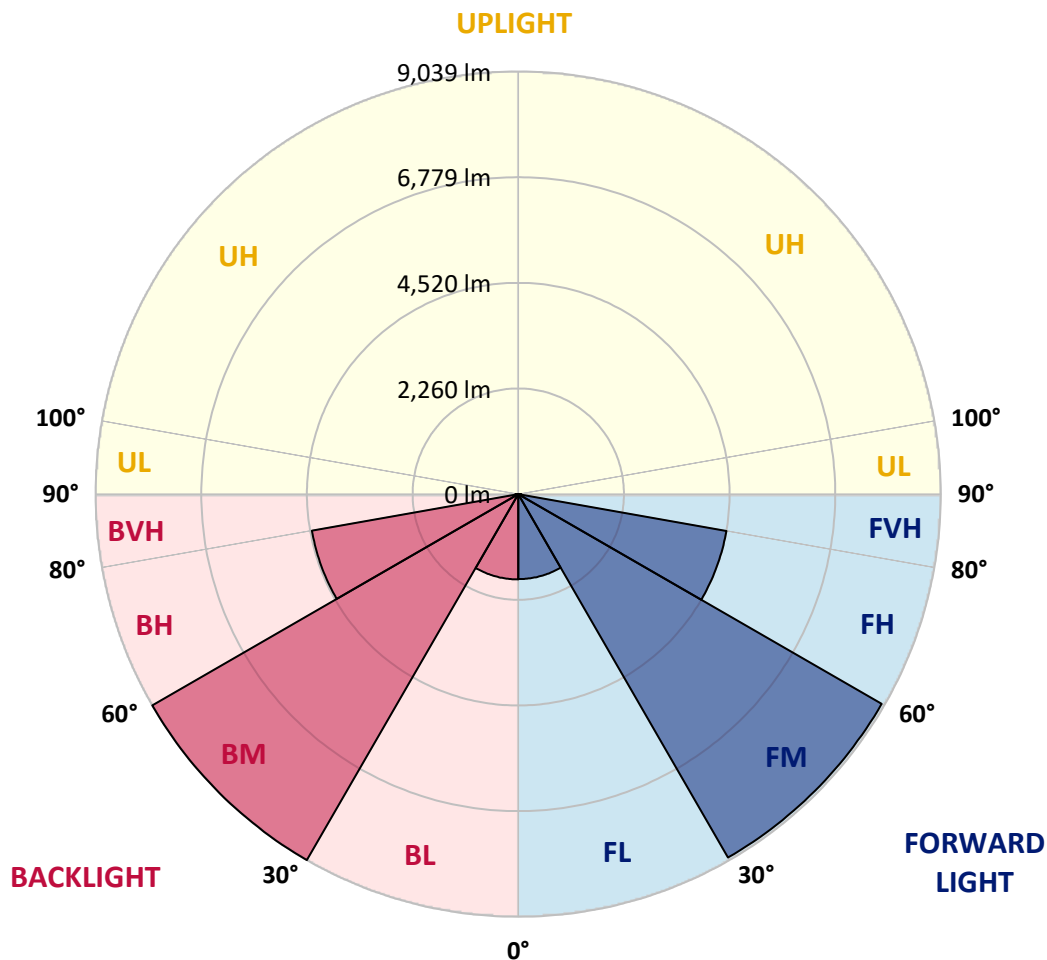
CATALOG NUMBER: IFLD-L-SA7A-735-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.2	5.9			
FM (30°-60°)	8974.5	29.1			
FH (60°-80°)	4521.9	14.7			G2/5000
FVH (80°-90°)	67.0	0.2			G1/100
BL (0°-30°)	1824.2	5.9	B3/2500		
BM (30°-60°)	9039.3	29.4	B5		
BH (60°-80°)	4482.9	14.6	B4/5000		G2/5000
BVH (80°-90°)	63.6	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





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 CATALOG NUMBER: IFLD-L-SA7A-735-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9
2.5°	3562.6	3569.6	3633.2	3608.5	3629.7	3590.8	3619.1	3679.1	3608.5	3661.4	3679.1
5°	3601.4	3612.0	3612.0	3636.7	3650.8	3643.8	3661.4	3636.7	3703.8	3675.6	3717.9
7.5°	3742.6	3725.0	3696.7	3717.9	3721.5	3739.1	3756.8	3788.5	3778.0	3753.2	3795.6
10°	3767.4	3753.2	3795.6	3799.1	3781.5	3767.4	3785.0	3785.0	3816.8	3823.9	3823.9
12.5°	3809.7	3823.9	3820.3	3848.6	3852.1	3841.5	3869.8	3922.7	3908.6	3919.2	3894.5
15°	3972.2	3954.5	3951.0	3979.2	4025.1	3958.0	4007.5	4003.9	3989.8	4011.0	3954.5
17.5°	4113.4	4056.9	4081.6	4127.5	4109.9	4124.0	4187.5	4131.0	4145.2	4120.4	4102.8
20°	4237.0	4191.1	4194.6	4212.2	4212.2	4254.6	4279.3	4258.1	4244.0	4240.5	4247.6
22.5°	4374.7	4321.7	4325.2	4399.4	4424.1	4410.0	4392.3	4427.6	4434.7	4406.4	4438.2
25°	4477.1	4533.5	4551.2	4586.5	4533.5	4572.4	4558.3	4625.3	4667.7	4611.2	4650.1
27.5°	4745.4	4720.7	4766.6	4763.1	4805.4	4766.6	4791.3	4812.5	4830.1	4833.7	4816.0
30°	4985.5	4996.1	4950.2	5073.8	4974.9	5038.5	5080.8	5091.4	5112.6	5112.6	5059.6
32.5°	5239.7	5218.5	5292.7	5264.4	5246.8	5296.2	5250.3	5395.1	5310.3	5359.8	5299.7
35°	5525.7	5525.7	5554.0	5631.6	5525.7	5493.9	5578.7	5638.7	5638.7	5550.4	5571.6
37.5°	5847.0	5818.8	5854.1	5952.9	5871.7	5765.8	5921.2	5945.9	5928.2	5903.5	5861.1
40°	6073.0	6065.9	6136.5	6267.2	6150.7	6129.5	6157.7	6224.8	6246.0	6270.7	6214.2
42.5°	6454.3	6486.1	6690.9	6659.1	6563.8	6489.6	6482.6	6733.2	6673.2	6609.7	6577.9
45°	7019.2	6991.0	7096.9	7100.4	6976.9	6814.4	6849.8	7079.3	7181.7	7040.4	7093.4
47.5°	7467.6	7481.8	7555.9	7707.7	7421.7	7252.3	7382.9	7753.6	7721.9	7668.9	7718.3
50°	8067.9	8131.4	8364.5	8311.5	8057.3	7849.0	8135.0	8484.5	8523.4	8329.2	8293.9
52.5°	8897.6	8996.5	9123.6	9166.0	8922.3	8848.2	8865.8	9300.1	9204.8	9017.7	8897.6
55°	9625.0	9670.9	9903.9	10253.4	10235.8	9879.2	10084.0	10246.4	9858.0	9473.1	9504.9
57.5°	9935.7	9956.9	10606.5	11305.6	11722.3	11803.5	11570.4	11023.2	10098.1	9356.6	9310.7
60°	9162.4	9363.7	10147.5	11725.8	13628.9	14568.1	13018.1	11111.4	9536.7	8636.3	8569.3
62.5°	7322.9	7333.5	8498.6	10892.5	14815.2	17276.2	13572.4	10281.7	8039.6	7019.2	6750.9
64°	5215.0	5313.9	6652.0	9642.6	14568.1	18377.8	13505.3	9197.7	6627.3	5179.7	4992.6
65°	3742.6	3880.4	5172.6	8371.5	13989.0	18247.2	13304.1	8265.6	5359.8	3954.5	3763.8
67.5°	1377.0	1433.5	2030.2	4187.5	10045.1	15549.6	10543.0	4544.1	2355.0	1677.1	1507.7
70°	639.1	642.6	752.1	1384.1	4392.3	10398.2	5031.4	1705.4	886.2	702.6	653.2
72.5°	469.6	480.2	526.1	639.1	1292.3	4402.9	1652.4	699.1	519.0	459.0	448.4
75°	381.3	388.4	402.5	462.5	596.7	1179.3	670.9	483.7	413.1	370.7	356.6
77.5°	293.1	293.1	324.8	353.1	395.4	550.8	444.9	384.9	335.4	293.1	282.5
80°	211.8	215.4	254.2	275.4	268.3	363.7	321.3	317.8	275.4	229.5	211.8
82.5°	123.6	134.2	183.6	197.7	190.7	215.4	233.0	247.2	215.4	158.9	144.8
85°	70.6	74.1	105.9	109.5	109.5	102.4	134.2	148.3	144.8	98.9	88.3
87.5°	21.2	21.2	28.2	28.2	31.8	35.3	53.0	63.6	70.6	49.4	45.9
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: P478922  
 CATALOG NUMBER: IFLD-L-SA7A-735-U-5NQ

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9	3604.9
2.5°	3661.4	3608.5	3612.0	3626.1	3580.2	3597.9	3650.8	3612.0	3601.4	3580.2	3569.6
5°	3643.8	3700.3	3679.1	3686.2	3675.6	3626.1	3619.1	3650.8	3668.5	3636.7	3700.3
7.5°	3767.4	3742.6	3714.4	3725.0	3700.3	3742.6	3770.9	3707.3	3739.1	3721.5	3686.2
10°	3838.0	3792.1	3813.3	3806.2	3788.5	3830.9	3802.7	3795.6	3767.4	3728.5	3785.0
12.5°	3862.7	3915.7	3951.0	3890.9	3901.5	3880.4	3862.7	3862.7	3830.9	3820.3	3830.9
15°	3972.2	4018.1	4003.9	4049.8	3989.8	4011.0	4032.2	3979.2	4007.5	3929.8	3989.8
17.5°	4173.4	4134.6	4184.0	4124.0	4145.2	4187.5	4120.4	4120.4	4141.6	4099.3	4046.3
20°	4300.5	4282.9	4265.2	4268.7	4233.4	4272.3	4251.1	4240.5	4208.7	4222.8	4251.1
22.5°	4420.6	4395.8	4402.9	4413.5	4438.2	4420.6	4410.0	4420.6	4342.9	4413.5	4314.6
25°	4568.9	4635.9	4614.8	4660.7	4590.0	4635.9	4632.4	4565.3	4607.7	4579.4	4558.3
27.5°	4816.0	4780.7	4812.5	4756.0	4805.4	4809.0	4766.6	4879.6	4830.1	4823.1	4809.0
30°	5133.8	5109.1	5087.9	5056.1	5094.9	5063.2	5098.5	5109.1	5063.2	5027.9	4960.8
32.5°	5313.9	5380.9	5405.7	5328.0	5331.5	5349.2	5317.4	5285.6	5313.9	5324.4	5313.9
35°	5568.1	5631.6	5645.8	5585.7	5554.0	5642.2	5578.7	5684.6	5592.8	5596.3	5501.0
37.5°	5864.7	5882.3	6002.4	5935.3	5907.0	5864.7	5981.2	5967.1	5988.2	5818.8	5903.5
40°	6200.1	6263.6	6330.7	6161.2	6157.7	6196.6	6189.5	6270.7	6231.9	6207.1	6147.1
42.5°	6567.3	6701.5	6712.1	6599.1	6528.5	6521.4	6556.7	6736.8	6740.3	6577.9	6507.3
45°	7054.5	7202.8	7164.0	6945.1	6867.4	6856.8	7029.8	7107.5	7174.6	7111.0	7051.0
47.5°	7661.8	7760.7	7732.5	7531.2	7280.5	7351.1	7520.6	7764.2	7693.6	7608.9	7538.3
50°	8311.5	8428.0	8368.0	8166.7	7926.6	7926.6	8135.0	8445.7	8424.5	8258.5	8195.0
52.5°	9031.8	9201.3	9339.0	9053.0	8851.7	8883.5	9211.9	9324.8	9271.9	9155.4	9102.4
55°	9568.5	9893.3	10175.8	10189.9	10200.5	10197.0	10281.7	10394.7	10016.9	9829.8	9639.1
57.5°	9437.8	10052.2	11019.6	11676.4	11870.6	11972.9	11944.7	11422.1	10528.8	9914.5	9978.0
60°	8505.7	9508.4	11069.1	13177.0	14589.3	14448.0	13932.5	11867.0	10246.4	9208.3	9077.7
62.5°	6786.2	7993.7	10239.3	13600.6	17491.6	17449.2	14751.7	10839.6	8537.5	7224.0	7142.8
64°	5112.6	6383.7	9134.2	13491.2	18508.5	18550.8	14543.4	9575.5	6680.3	5112.6	4989.0
65°	3912.1	5091.4	8050.2	13265.2	18289.6	18314.3	13964.3	8269.1	5077.3	3629.7	3495.5
67.5°	1557.1	2167.9	4367.6	10059.3	15705.0	15637.9	9963.9	4000.4	1941.9	1264.0	1239.3
70°	663.8	826.2	1532.4	4766.6	10514.7	10320.5	4289.9	1299.3	720.3	603.8	600.2
72.5°	455.5	504.9	656.7	1472.3	4371.1	4268.7	1221.7	603.8	490.8	451.9	451.9
75°	367.2	402.5	476.7	617.9	1158.1	1115.7	575.5	444.9	391.9	363.7	360.1
77.5°	286.0	321.3	374.3	427.2	529.6	526.1	384.9	335.4	303.6	282.5	275.4
80°	226.0	261.3	296.6	303.6	346.0	339.0	261.3	264.8	247.2	204.8	201.3
82.5°	155.4	211.8	236.6	215.4	204.8	204.8	187.1	187.1	173.0	127.1	116.5
85°	95.3	141.2	148.3	127.1	95.3	95.3	102.4	98.9	91.8	67.1	63.6
87.5°	49.4	67.1	60.0	49.4	31.8	31.8	28.2	21.2	21.2	17.7	17.7
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)