

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: P510119

Luminaire Tested: **VERD-M-CA4-210-727-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-210-727-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2700K, 960mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25554 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

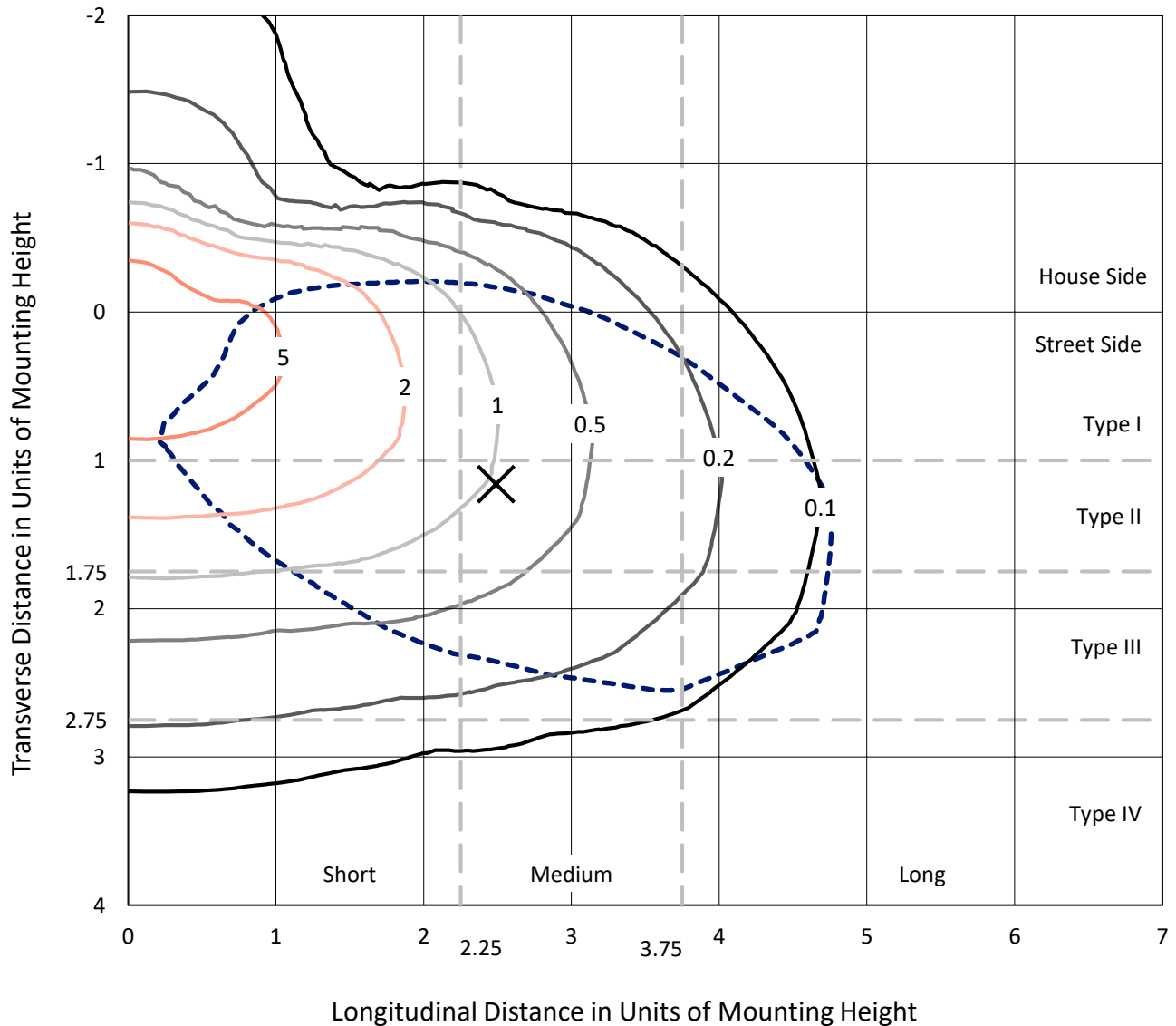
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

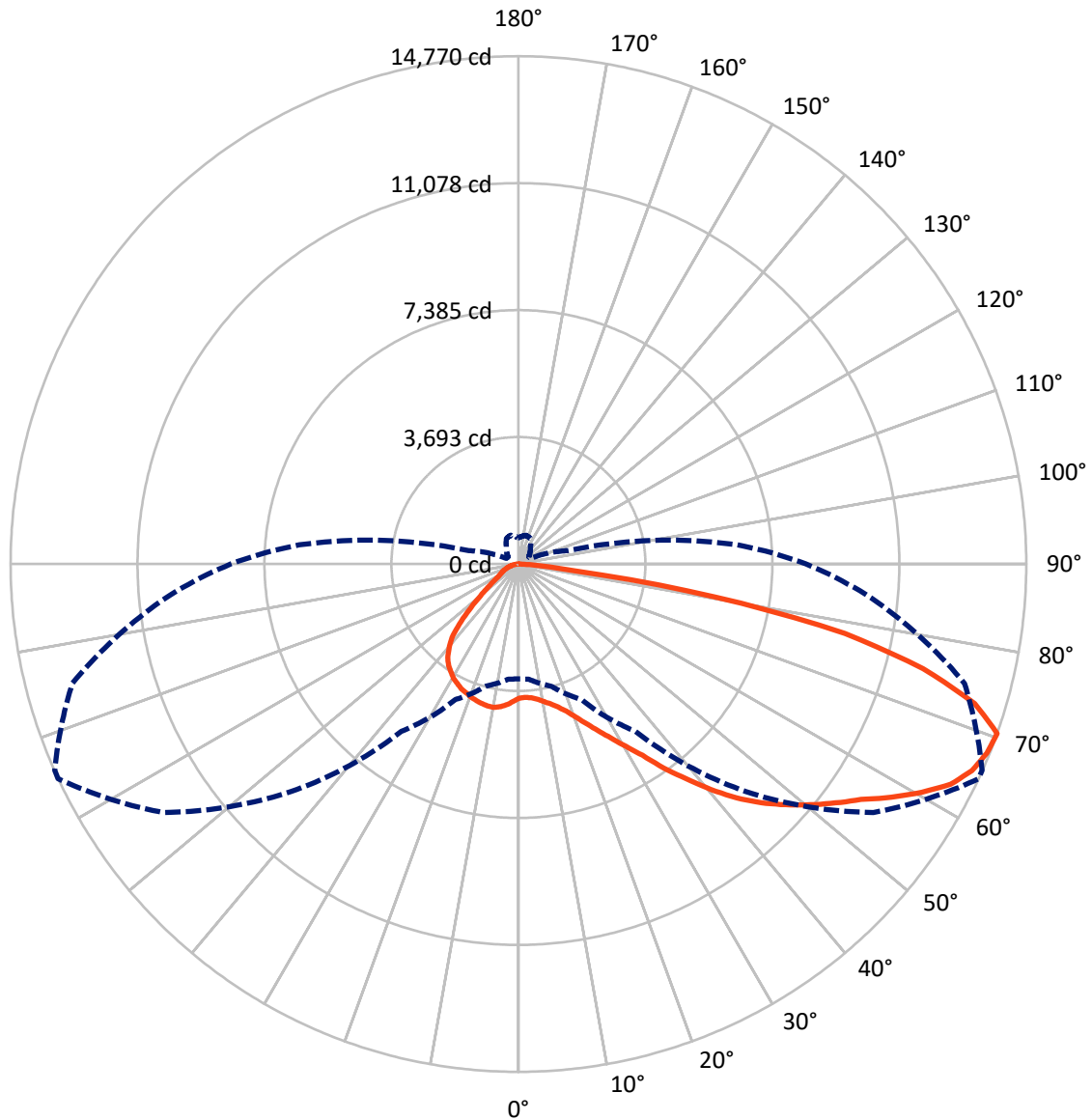
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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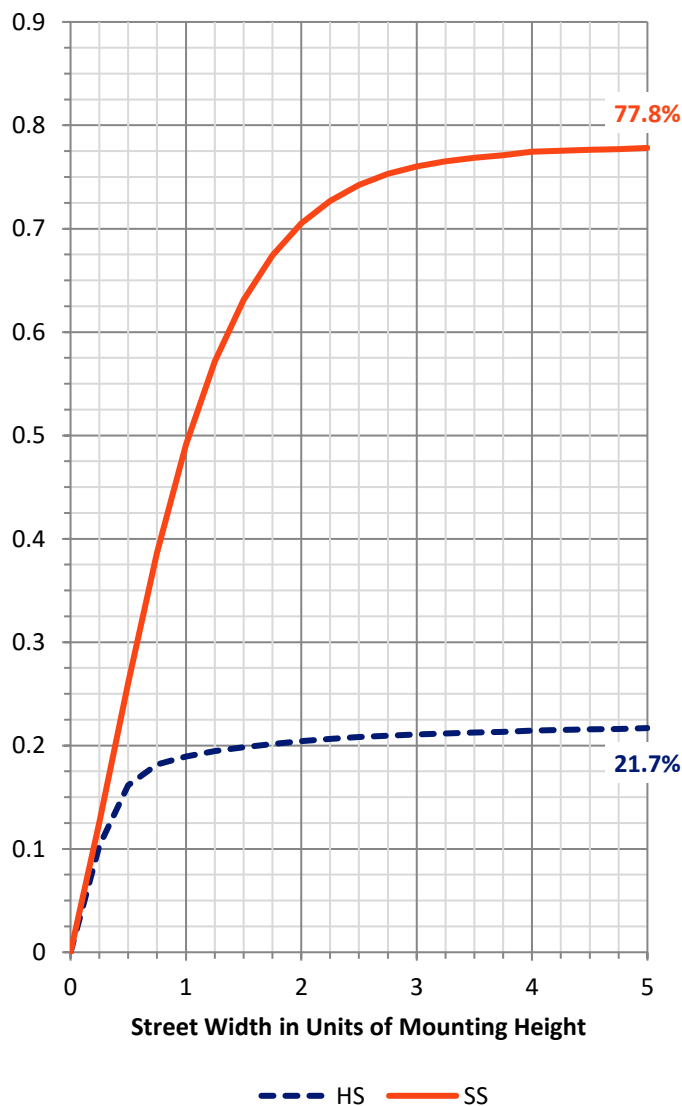
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5637.0	0.0	5637.0
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	19917.0	0.0	19917.0
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	25554.0	0.0	25554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.4	1.5
10°-20°	1236.9	4.8
20°-30°	2145.9	8.4
30°-40°	3120.0	12.2
40°-50°	4168.4	16.3
50°-60°	5077.5	19.9
60°-70°	5473.7	21.4
70°-80°	3548.8	13.9
80°-90°	391.4	1.5
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°	25554.0	100.0
0°-180°	25554.0	100.0

**Coefficient of Utilization**



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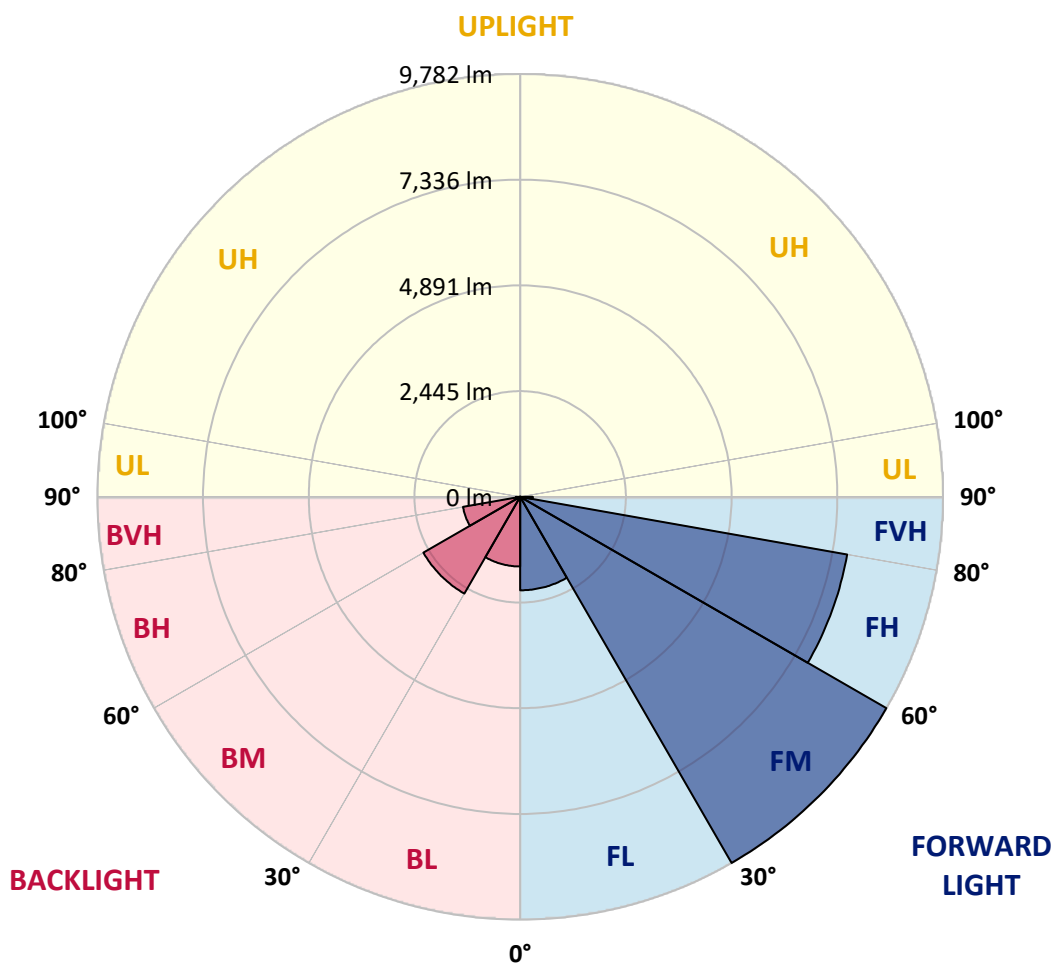
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2162.6	8.5			
FM (30°-60°)	9781.6	38.3			
FH (60°-80°)	7680.9	30.1			G4/12000
FVH (80°-90°)	291.9	1.1			G3/500
BL (0°-30°)	1611.6	6.3	B3/2500		
BM (30°-60°)	2584.4	10.1	B3/5000		
BH (60°-80°)	1341.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	99.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4
2.5°	3843.8	3878.3	3859.9	3861.0	3887.5	3865.6	3880.6	3880.6	3879.5	3887.5	3911.7
5°	3938.2	3975.1	3953.2	3939.4	3945.1	3917.5	3911.7	3907.1	3903.7	3912.9	3953.2
7.5°	4076.5	4119.1	4094.9	4082.3	4075.3	4012.0	4000.5	3969.3	3965.9	3974.0	4010.8
10°	4259.7	4317.3	4288.5	4252.8	4228.6	4154.9	4096.1	4068.4	4060.4	4055.8	4093.8
12.5°	4523.6	4574.3	4540.8	4474.0	4441.8	4323.1	4252.8	4174.4	4173.3	4157.2	4186.0
15°	4773.6	4826.6	4784.0	4718.3	4675.6	4515.5	4411.8	4315.0	4303.5	4285.1	4294.3
17.5°	5015.5	5080.1	5050.1	4990.2	4938.4	4759.8	4623.8	4499.4	4486.7	4457.9	4415.2
20°	5316.3	5375.0	5367.0	5312.8	5255.2	5052.4	4903.8	4743.6	4729.8	4678.0	4582.3
22.5°	5617.0	5689.6	5644.7	5635.4	5603.2	5401.5	5194.1	5031.7	5017.9	4949.9	4774.7
25°	5900.4	5965.0	5981.1	5966.1	5969.6	5770.2	5564.0	5360.1	5346.2	5254.1	5000.6
27.5°	6235.7	6296.8	6301.4	6304.9	6345.2	6179.3	5937.3	5727.6	5718.4	5614.7	5293.2
30°	6492.7	6594.1	6614.8	6634.4	6655.1	6566.4	6346.3	6150.5	6132.0	6019.1	5622.8
32.5°	6727.7	6803.8	6877.5	6917.8	7011.2	6931.7	6750.8	6629.8	6630.9	6577.9	6148.2
35°	6909.8	6993.9	7087.2	7234.7	7370.7	7337.2	7280.8	7287.7	7288.8	7311.9	6856.8
37.5°	7083.8	7159.8	7277.3	7453.6	7693.3	7737.1	7775.1	7919.1	7969.8	8078.1	7511.2
40°	7188.6	7269.3	7421.4	7665.6	7976.7	8134.6	8249.8	8619.6	8707.2	8708.4	8017.0
42.5°	7035.4	7124.1	7396.0	7830.4	8232.5	8527.5	8830.5	9297.1	9360.5	9218.8	8449.1
45°	6898.3	6980.1	7272.7	7855.7	8433.0	8946.9	9368.6	9909.0	9955.1	9669.3	8847.8
47.5°	6765.7	6830.3	7169.0	7802.7	8638.1	9367.4	9827.2	10462.0	10495.4	10162.4	9237.2
50°	6582.5	6659.7	7019.2	7740.5	8761.4	9728.1	10276.5	11008.2	11003.6	10606.0	9589.8
52.5°	6382.1	6458.1	6844.1	7626.4	8842.0	10008.1	10788.1	11542.8	11546.2	11115.3	9938.9
55°	6129.7	6223.1	6629.8	7472.0	8861.6	10228.1	11231.7	12091.2	12147.7	11635.0	10275.4
57.5°	5827.9	5921.2	6365.9	7246.2	8745.2	10412.5	11705.3	12791.8	12821.7	12166.1	10526.5
60°	5476.4	5589.3	6014.5	6944.3	8522.9	10626.8	12279.0	13478.5	13488.9	12640.8	10736.2
62.5°	5069.7	5150.4	5597.4	6506.5	8168.0	10712.0	12753.8	14108.8	14111.1	12999.2	10830.7
65°	4629.6	4660.7	5035.1	5910.8	7650.6	10572.6	12935.8	14492.4	14482.1	13313.7	10783.5
67.5°	4105.3	4090.3	4490.1	5174.6	6996.2	10108.3	12847.1	14689.5	14720.6	13555.7	10631.4
70°	3337.9	3359.8	3677.8	4350.7	5939.6	9362.8	12602.8	14770.1	14762.1	13434.7	10141.7
72.5°	2533.7	2572.9	2803.3	3308.0	4610.0	7874.2	11556.6	13878.3	13894.4	12582.1	9260.3
75°	1567.0	1679.9	1874.6	2182.3	2888.6	5641.2	9836.4	12156.9	12238.7	11101.5	7625.3
77.5°	686.7	713.2	811.2	1052.0	1510.5	2832.1	7271.6	9708.5	9950.4	8978.0	5500.6
80°	425.2	425.2	452.8	527.7	674.0	1053.1	2913.9	5796.7	5551.3	5135.4	2426.5
82.5°	353.7	353.7	367.6	380.2	345.7	445.9	974.8	1624.6	1741.0	1409.1	745.5
85°	192.4	197.0	198.2	201.6	198.2	240.8	383.7	480.5	486.2	440.1	265.0
87.5°	70.3	74.9	72.6	68.0	61.1	57.6	73.7	74.9	77.2	71.4	39.2
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°	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4	3901.4
2.5°	3927.9	3944.0	3986.6	3990.1	4006.2	4012.0	4025.8	4045.4	4080.0	4062.7	4043.1
5°	3972.8	3993.5	4061.5	4096.1	4141.0	4167.5	4211.3	4233.2	4286.2	4268.9	4266.6
7.5°	4040.8	4084.6	4145.6	4179.0	4237.8	4255.1	4287.4	4287.4	4331.1	4309.2	4303.5
10°	4133.0	4161.8	4226.3	4228.6	4262.0	4262.0	4300.0	4275.8	4318.5	4293.1	4292.0
12.5°	4206.7	4222.8	4247.0	4227.4	4244.7	4225.1	4244.7	4215.9	4242.4	4210.2	4203.2
15°	4289.7	4267.8	4243.6	4197.5	4182.5	4151.4	4135.3	4105.3	4107.6	4070.7	4065.0
17.5°	4383.0	4326.5	4256.2	4156.0	4100.7	4021.2	3987.8	3945.1	3921.0	3887.5	3902.5
20°	4495.9	4411.8	4265.5	4109.9	3992.4	3871.4	3793.1	3723.9	3718.2	3688.2	3672.1
22.5°	4642.2	4507.4	4305.8	4044.2	3855.3	3682.4	3566.1	3450.9	3439.3	3378.3	3355.2
25°	4823.1	4634.2	4326.5	3993.5	3695.1	3457.8	3274.6	3114.4	3037.2	2972.7	2957.7
27.5°	5066.2	4820.8	4368.0	3902.5	3506.2	3178.9	2916.2	2704.2	2612.0	2579.8	2546.4
30°	5350.8	5049.0	4445.2	3826.5	3282.6	2822.9	2502.6	2250.3	2150.0	2099.3	2083.2
32.5°	5770.2	5337.0	4516.6	3700.9	3011.9	2431.2	2014.1	1735.2	1674.2	1664.9	1686.8
35°	6380.9	5878.5	4620.3	3584.5	2693.9	1995.6	1534.7	1352.7	1340.0	1342.3	1342.3
37.5°	7016.9	6394.7	4928.0	3412.8	2304.4	1502.5	1168.3	1069.2	1073.9	1073.9	1072.7
40°	7431.7	6809.5	5151.5	3169.7	1820.5	1077.3	866.5	791.6	823.8	867.6	890.7
42.5°	7889.1	7186.3	5305.9	2889.7	1266.3	761.6	630.3	656.8	751.2	818.1	827.3
45°	8278.6	7506.6	5323.2	2454.2	815.8	578.4	575.0	651.0	760.5	833.0	838.8
47.5°	8612.7	7798.1	5214.9	1956.4	594.5	540.4	575.0	670.6	769.7	814.6	819.2
50°	8936.5	8029.7	4960.2	1503.6	541.5	526.6	581.9	674.0	736.3	767.4	762.8
52.5°	9224.6	8240.6	4591.5	1172.9	520.8	517.3	587.6	670.6	709.8	707.5	704.0
55°	9443.5	8302.8	4303.5	914.9	503.5	511.6	591.1	674.0	702.8	682.1	677.5
57.5°	9556.4	8225.6	4061.5	727.0	485.1	505.8	600.3	672.9	723.6	762.8	760.5
60°	9554.1	8138.0	3763.1	626.8	466.6	501.2	615.3	730.5	913.7	950.6	951.7
62.5°	9517.2	7988.2	3354.1	566.9	445.9	503.5	625.6	829.6	1040.4	1010.5	986.3
65°	9395.1	7707.1	2805.6	502.4	419.4	505.8	621.0	897.6	954.0	846.9	831.9
67.5°	9055.2	7163.3	2203.0	449.4	395.2	493.1	629.1	834.2	876.8	808.8	787.0
70°	8365.0	6397.0	1493.3	387.1	367.6	474.7	610.7	820.4	865.3	796.2	763.9
72.5°	7271.6	5134.2	873.4	333.0	327.2	436.7	601.5	829.6	879.1	801.9	760.5
75°	5659.6	3599.5	504.7	269.6	273.1	403.3	551.9	782.3	871.1	811.2	757.0
77.5°	3653.6	1747.9	356.0	215.5	213.2	318.0	448.2	684.4	838.8	819.2	774.3
80°	1307.8	638.3	250.0	160.2	155.5	215.5	344.5	550.8	709.8	735.1	735.1
82.5°	470.1	320.3	160.2	97.9	96.8	137.1	256.9	418.3	515.0	580.7	596.8
85°	197.0	139.4	78.3	49.5	40.3	53.0	132.5	259.2	349.1	375.6	409.0
87.5°	28.8	25.3	20.7	16.1	13.8	13.8	17.3	74.9	124.4	178.6	221.2
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)