

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: P510063

Luminaire Tested: **VERD-M-CA4-200-722-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510063  
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-CA4-200-722-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 910mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23496 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

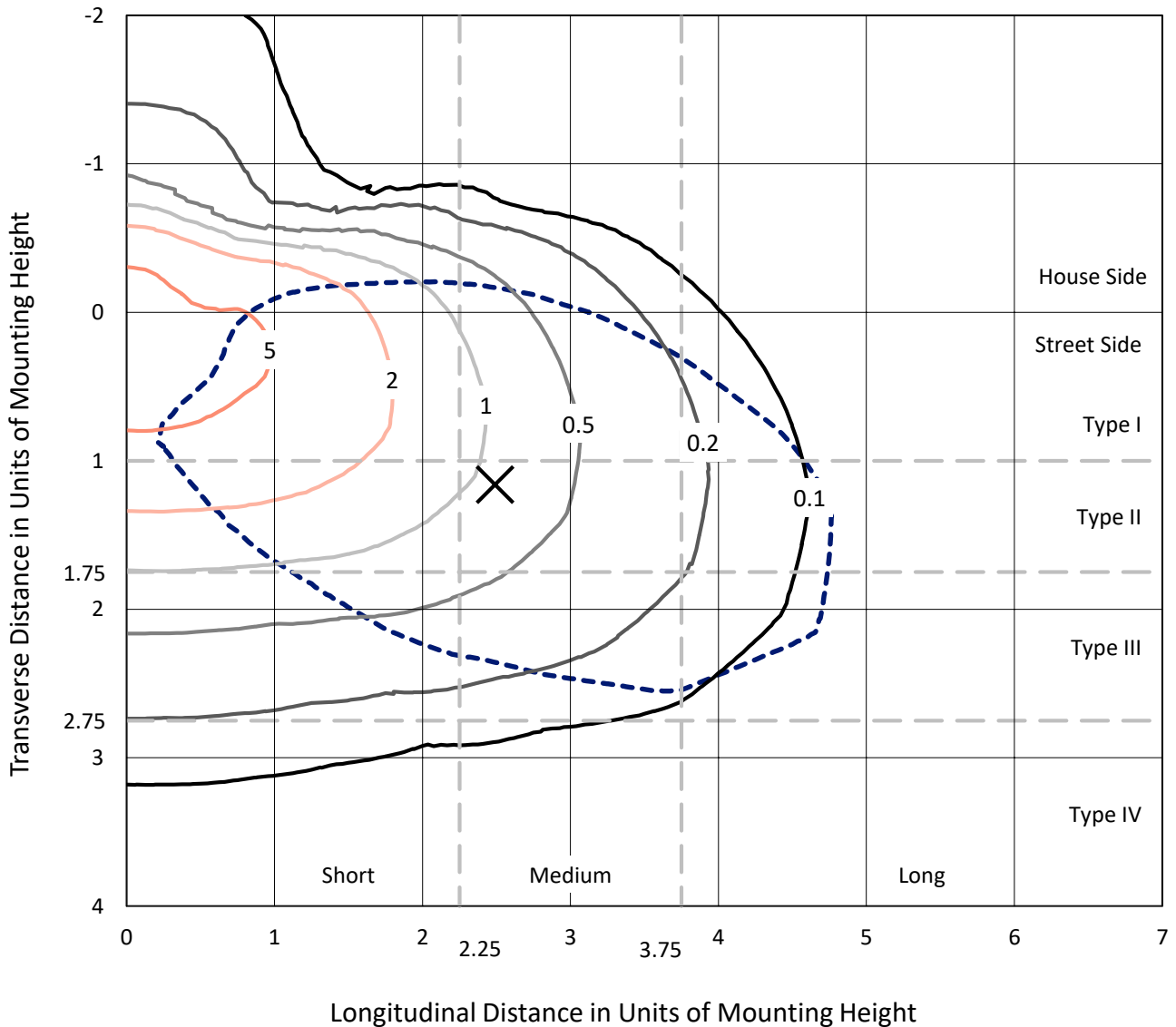
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P510063  
 CATALOG NUMBER: VERD-M-CA4-200-722-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

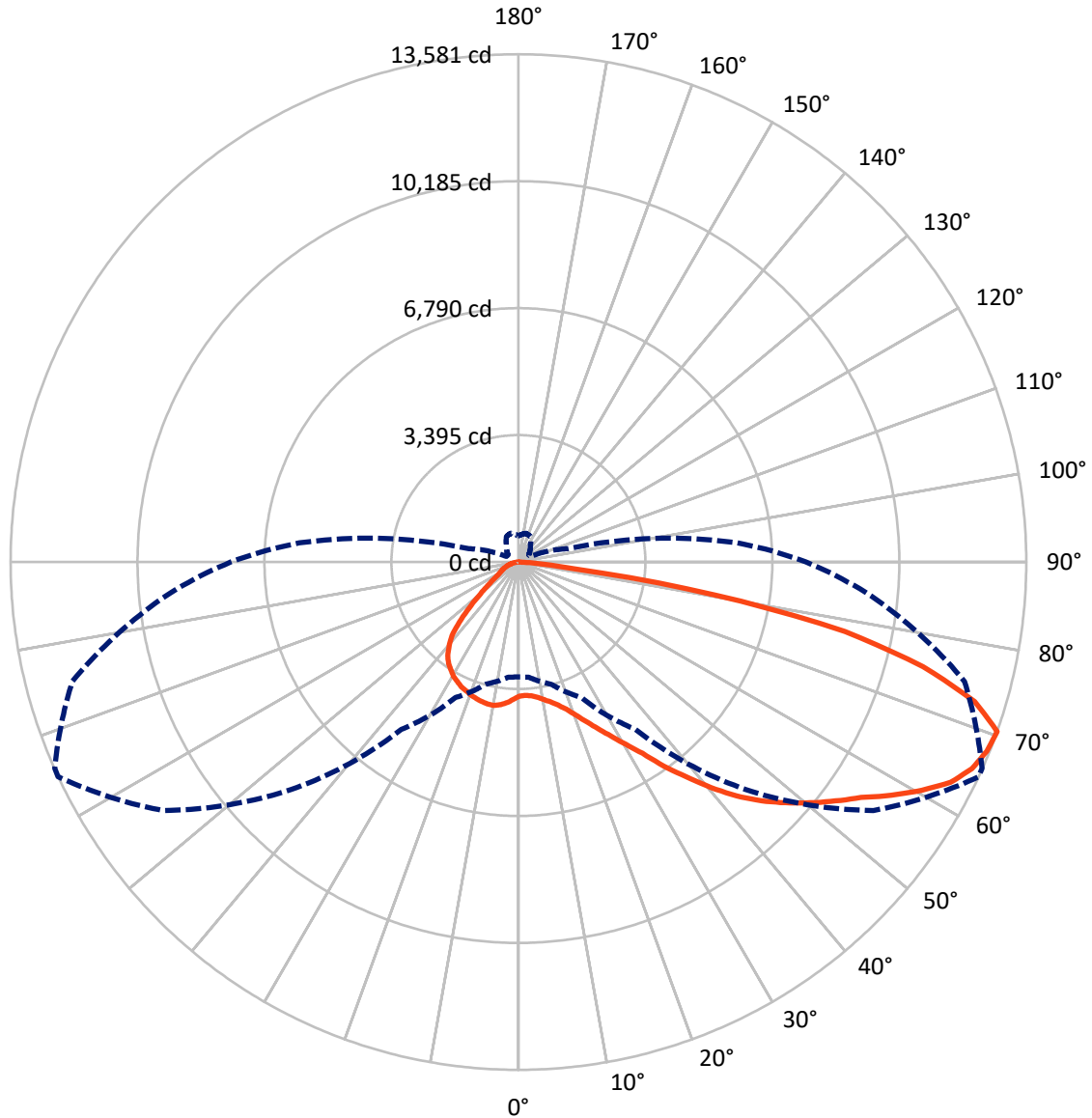
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P510063  
CATALOG NUMBER: VERD-M-CA4-200-722-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P510063

CATALOG NUMBER: VERD-M-CA4-200-722-U-T3

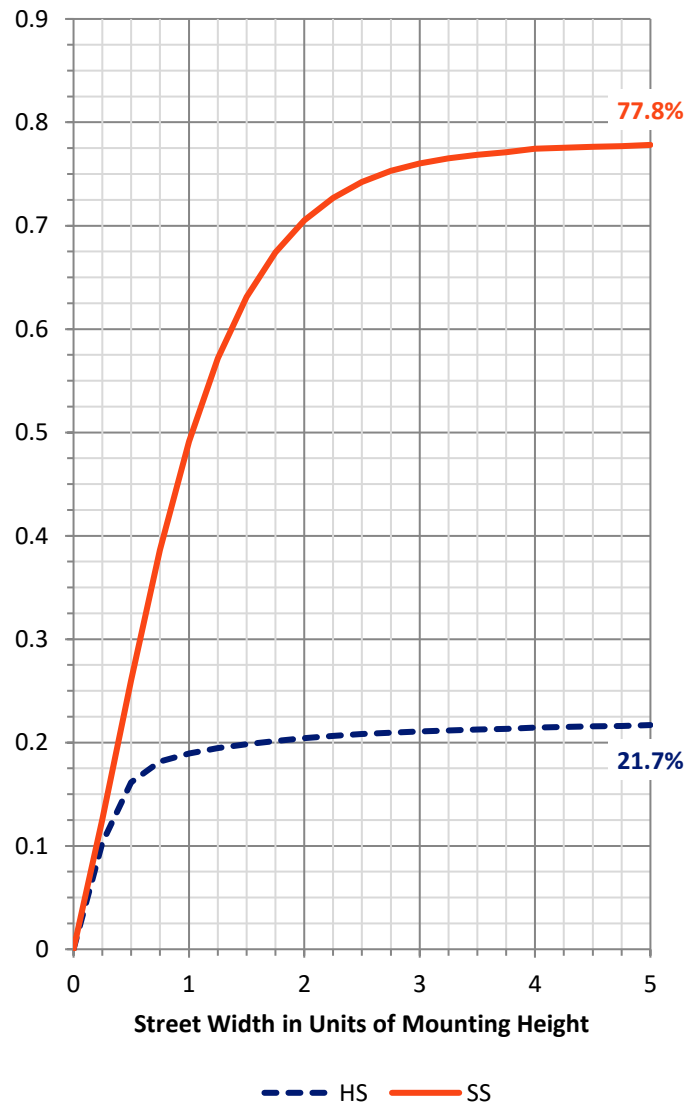
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5183.0	0.0	5183.0
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	18313.0	0.0	18313.0
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	23496.0	0.0	23496.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.9	1.5
10°-20°	1137.3	4.8
20°-30°	1973.1	8.4
30°-40°	2868.8	12.2
40°-50°	3832.7	16.3
50°-60°	4668.6	19.9
60°-70°	5032.8	21.4
70°-80°	3263.0	13.9
80°-90°	359.9	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°	23496.0	100.0
0°-180°	23496.0	100.0



REPORT NUMBER: P510063

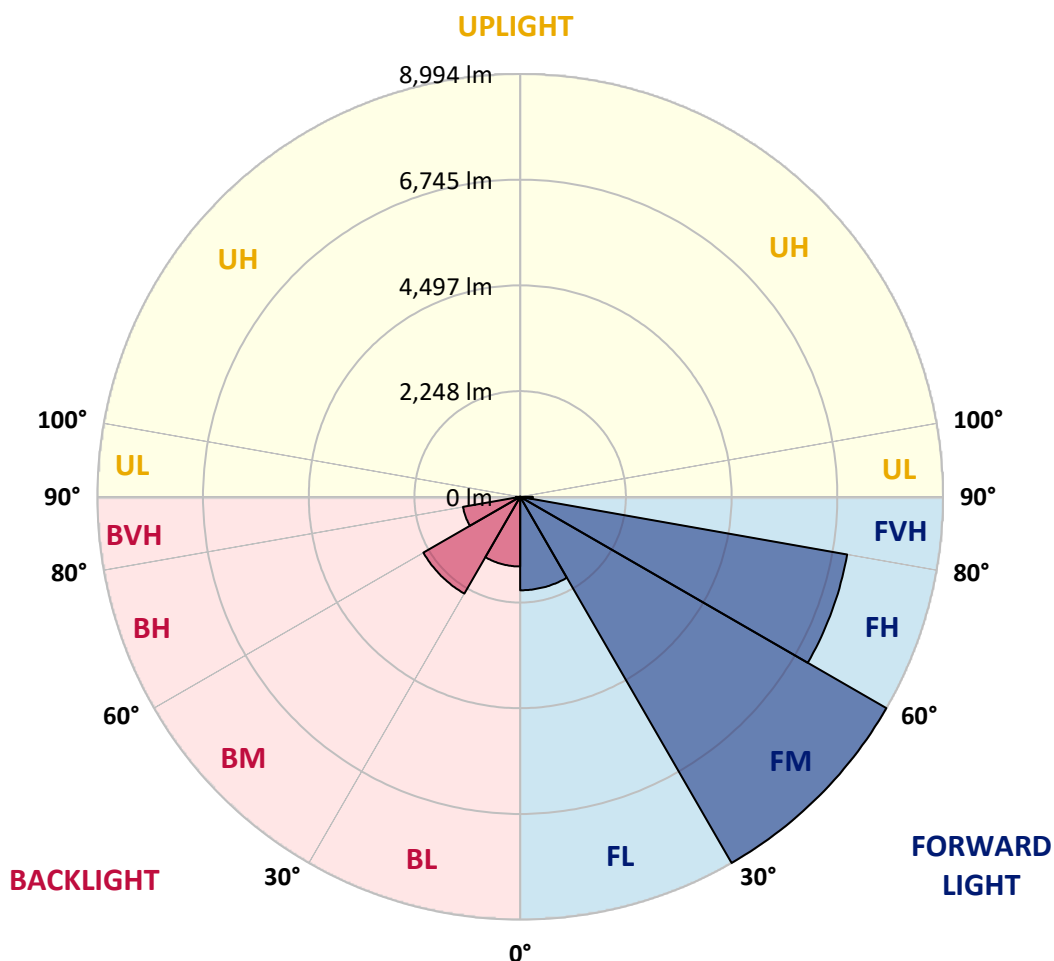
CATALOG NUMBER: VERD-M-CA4-200-722-U-T3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1988.4	8.5			
FM	(30°-60°)	8993.8	38.3			
FH	(60°-80°)	7062.3	30.1			G3/7500
FVH	(80°-90°)	268.4	1.1			G3/500
BL	(0°-30°)	1481.8	6.3	B3/2500		
BM	(30°-60°)	2376.2	10.1	B2/2500		
BH	(60°-80°)	1233.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	91.5	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-G3**

Type III Medium





REPORT NUMBER: P510063

CATALOG NUMBER: VERD-M-CA4-200-722-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2
2.5°	3534.2	3566.0	3549.0	3550.1	3574.5	3554.3	3568.1	3568.1	3567.0	3574.5	3596.7
5°	3621.1	3655.0	3634.8	3622.1	3627.4	3602.0	3596.7	3592.5	3589.3	3597.8	3634.8
7.5°	3748.2	3787.4	3765.1	3753.5	3747.1	3688.9	3678.3	3649.7	3646.5	3653.9	3687.8
10°	3916.6	3969.6	3943.1	3910.3	3888.0	3820.2	3766.2	3740.8	3733.4	3729.1	3764.1
12.5°	4159.3	4205.9	4175.1	4113.7	4084.0	3974.9	3910.3	3838.2	3837.2	3822.4	3848.8
15°	4389.1	4437.9	4398.7	4338.3	4299.1	4151.8	4056.5	3967.5	3956.9	3940.0	3948.4
17.5°	4611.6	4670.9	4643.4	4588.3	4540.6	4376.4	4251.4	4137.0	4125.3	4098.9	4059.7
20°	4888.1	4942.2	4934.7	4884.9	4832.0	4645.5	4508.9	4361.6	4348.9	4301.2	4213.3
22.5°	5164.6	5231.4	5190.1	5181.6	5151.9	4966.5	4775.8	4626.5	4613.7	4551.2	4390.2
25°	5425.2	5484.6	5499.4	5485.6	5488.8	5305.5	5115.9	4928.4	4915.7	4830.9	4597.8
27.5°	5733.5	5789.7	5793.9	5797.1	5834.2	5681.6	5459.1	5266.3	5257.9	5162.5	4866.9
30°	5969.8	6063.0	6082.1	6100.1	6119.2	6037.6	5835.2	5655.1	5638.2	5534.4	5169.9
32.5°	6185.9	6255.8	6323.6	6360.7	6446.5	6373.4	6207.1	6095.9	6096.9	6048.2	5653.0
35°	6353.3	6430.6	6516.4	6652.0	6777.1	6746.3	6694.4	6700.8	6701.8	6723.0	6304.6
37.5°	6513.3	6583.2	6691.2	6853.3	7073.7	7114.0	7148.9	7281.3	7328.0	7427.5	6906.3
40°	6609.7	6683.8	6823.7	7048.3	7334.3	7479.4	7585.4	7925.5	8006.0	8007.0	7371.4
42.5°	6468.8	6550.3	6800.4	7199.8	7569.5	7840.7	8119.3	8548.4	8606.7	8476.4	7768.7
45°	6342.7	6417.9	6687.0	7223.1	7753.8	8226.3	8614.1	9110.9	9153.3	8890.6	8135.2
47.5°	6220.9	6280.2	6591.7	7174.3	7942.4	8613.0	9035.7	9619.5	9650.2	9344.0	8493.3
50°	6052.4	6123.4	6453.9	7117.1	8055.8	8944.6	9448.9	10121.6	10117.4	9751.9	8817.5
52.5°	5868.1	5938.0	6292.9	7012.2	8129.9	9202.1	9919.3	10613.2	10616.4	10220.1	9138.5
55°	5636.1	5721.9	6095.9	6870.3	8147.9	9404.4	10327.1	11117.5	11169.4	10697.9	9447.8
57.5°	5358.5	5444.3	5853.3	6662.6	8040.9	9573.9	10762.6	11761.6	11789.1	11186.3	9678.8
60°	5035.4	5139.2	5530.1	6385.1	7836.5	9771.0	11290.2	12393.0	12402.5	11622.8	9871.6
62.5°	4661.4	4735.6	5146.6	5982.5	7510.2	9849.4	11726.6	12972.5	12974.6	11952.3	9958.5
65°	4256.7	4285.3	4629.6	5434.8	7034.5	9721.2	11894.0	13325.3	13315.7	12241.5	9915.0
67.5°	3774.7	3760.9	4128.5	4757.8	6432.7	9294.2	11812.4	13506.4	13535.0	12464.0	9775.2
70°	3069.1	3089.2	3381.6	4000.3	5461.3	8608.8	11587.8	13580.6	13573.2	12352.7	9324.9
72.5°	2329.6	2365.7	2577.5	3041.6	4238.7	7240.0	10625.9	12760.6	12775.4	11568.8	8514.5
75°	1440.8	1544.6	1723.7	2006.5	2655.9	5186.9	9044.2	11177.9	11253.1	10207.4	7011.2
77.5°	631.4	655.8	745.8	967.2	1388.9	2604.0	6685.9	8926.6	9149.1	8254.9	5057.6
80°	390.9	390.9	416.3	485.2	619.8	968.3	2679.3	5329.9	5104.2	4721.8	2231.1
82.5°	325.2	325.2	338.0	349.6	317.8	410.0	896.3	1493.8	1600.8	1295.7	685.4
85°	176.9	181.2	182.2	185.4	182.2	221.4	352.8	441.8	447.1	404.7	243.7
87.5°	64.6	68.9	66.7	62.5	56.1	53.0	67.8	68.9	71.0	65.7	36.0
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: P510063

CATALOG NUMBER: VERD-M-CA4-200-722-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2	3587.2
2.5°	3611.5	3626.4	3665.6	3668.7	3683.6	3688.9	3701.6	3719.6	3751.4	3735.5	3717.5
5°	3652.9	3671.9	3734.4	3766.2	3807.5	3831.9	3872.2	3892.3	3941.0	3925.1	3923.0
7.5°	3715.4	3755.6	3811.8	3842.5	3896.5	3912.4	3942.1	3942.1	3982.3	3962.2	3956.9
10°	3800.1	3826.6	3885.9	3888.0	3918.8	3918.8	3953.7	3931.5	3970.7	3947.4	3946.3
12.5°	3867.9	3882.7	3905.0	3887.0	3902.9	3884.9	3902.9	3876.4	3900.8	3871.1	3864.7
15°	3944.2	3924.1	3901.8	3859.4	3845.7	3817.1	3802.2	3774.7	3776.8	3742.9	3737.6
17.5°	4030.0	3978.1	3913.5	3821.3	3770.4	3697.3	3666.6	3627.4	3605.2	3574.5	3588.2
20°	4133.8	4056.5	3921.9	3778.9	3670.9	3559.6	3487.6	3424.0	3418.7	3391.2	3376.3
22.5°	4268.4	4144.4	3959.0	3718.5	3544.8	3385.9	3278.9	3172.9	3162.3	3106.2	3085.0
25°	4434.7	4261.0	3978.1	3671.9	3397.5	3179.3	3010.8	2863.6	2792.6	2733.3	2719.5
27.5°	4658.2	4432.6	4016.2	3588.2	3223.8	2922.9	2681.4	2486.4	2401.7	2372.0	2341.3
30°	4919.9	4642.3	4087.2	3518.3	3018.3	2595.6	2301.0	2069.0	1976.9	1930.2	1915.4
32.5°	5305.5	4907.2	4152.9	3402.8	2769.3	2235.4	1851.9	1595.5	1539.3	1530.9	1551.0
35°	5867.0	5405.1	4248.2	3295.8	2476.9	1834.9	1411.1	1243.7	1232.1	1234.2	1234.2
37.5°	6451.8	5879.7	4531.1	3138.0	2118.8	1381.5	1074.2	983.1	987.4	987.4	986.3
40°	6833.2	6261.1	4736.6	2914.4	1673.9	990.6	796.7	727.8	757.5	797.7	818.9
42.5°	7253.8	6607.6	4878.6	2657.0	1164.3	700.3	579.5	603.9	690.7	752.2	760.7
45°	7611.9	6902.1	4894.5	2256.5	750.1	531.8	528.6	598.6	699.2	766.0	771.3
47.5°	7919.1	7170.1	4794.9	1798.9	546.7	496.9	528.6	616.6	707.7	749.0	753.2
50°	8216.8	7383.0	4560.8	1382.5	497.9	484.2	535.0	619.8	677.0	705.6	701.3
52.5°	8481.7	7576.9	4221.8	1078.5	478.9	475.7	540.3	616.6	652.6	650.5	647.3
55°	8682.9	7634.1	3956.9	841.2	463.0	470.4	543.5	619.8	646.2	627.2	622.9
57.5°	8786.8	7563.1	3734.4	668.5	446.0	465.1	552.0	618.7	665.3	701.3	699.2
60°	8784.6	7482.6	3460.0	576.3	429.1	460.8	565.7	671.7	840.1	874.0	875.1
62.5°	8750.7	7344.9	3083.9	521.2	410.0	463.0	575.3	762.8	956.6	929.1	906.9
65°	8638.4	7086.4	2579.7	461.9	385.6	465.1	571.0	825.3	877.2	778.7	764.9
67.5°	8325.9	6586.4	2025.6	413.2	363.4	453.4	578.4	767.0	806.2	743.7	723.6
70°	7691.3	5881.9	1373.0	356.0	338.0	436.5	561.5	754.3	795.6	732.1	702.4
72.5°	6685.9	4720.7	803.0	306.2	300.9	401.5	553.0	762.8	808.3	737.4	699.2
75°	5203.8	3309.6	464.0	247.9	251.1	370.8	507.5	719.3	800.9	745.8	696.0
77.5°	3359.4	1607.1	327.4	198.1	196.0	292.4	412.1	629.3	771.3	753.2	711.9
80°	1202.4	586.9	229.9	147.3	143.0	198.1	316.8	506.4	652.6	675.9	675.9
82.5°	432.2	294.5	147.3	90.1	89.0	126.1	236.2	384.6	473.6	533.9	548.8
85°	181.2	128.2	72.0	45.6	37.1	48.7	121.8	238.4	321.0	345.4	376.1
87.5°	26.5	23.3	19.1	14.8	12.7	12.7	15.9	68.9	114.4	164.2	203.4
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)