

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: P509895

Luminaire Tested: **VERD-M-CA3-160-740-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509895  
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-CA3-160-740-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 1000mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23370 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

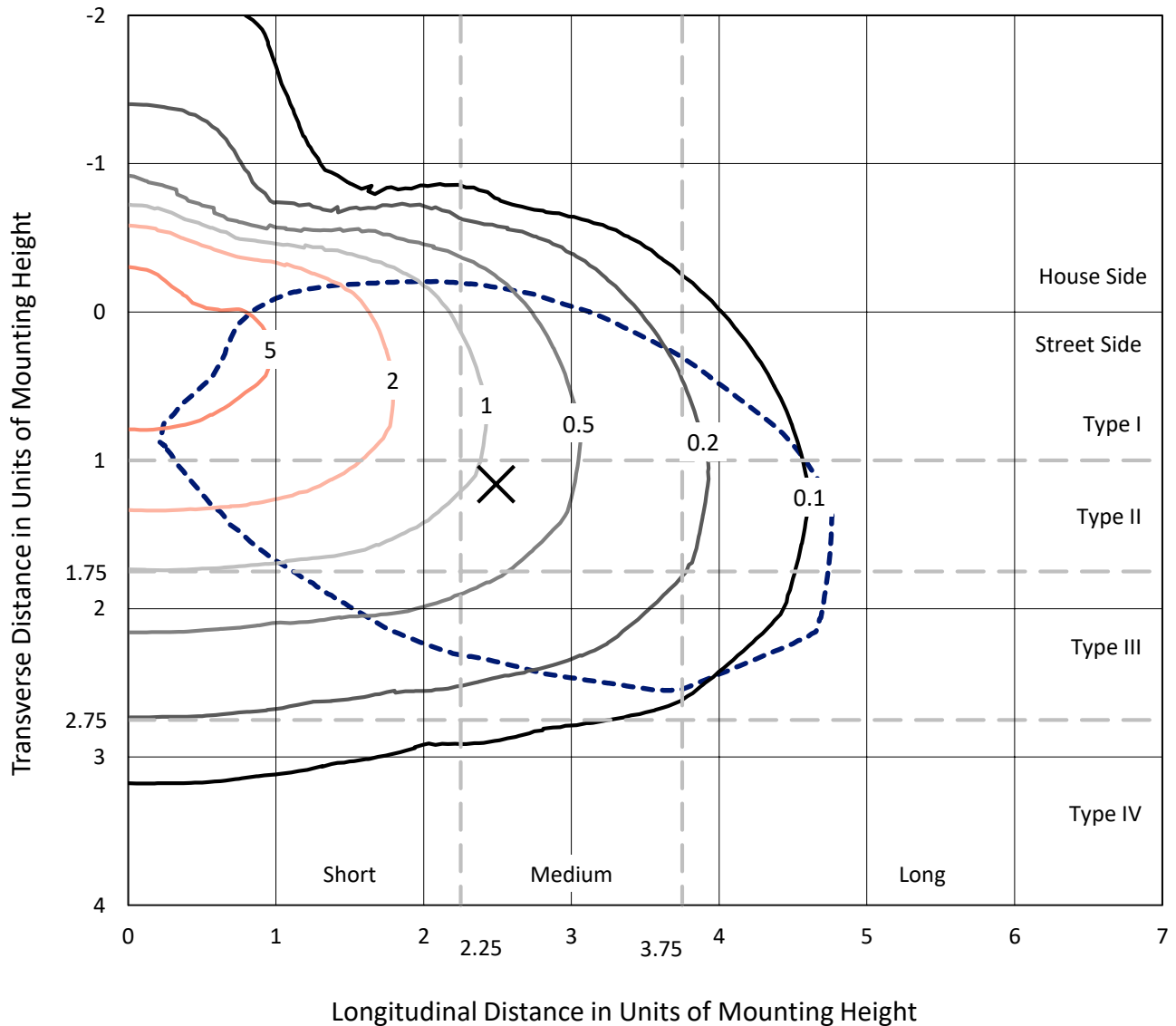
Input Watts (W): 162.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509895  
 CATALOG NUMBER: VERD-M-CA3-160-740-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

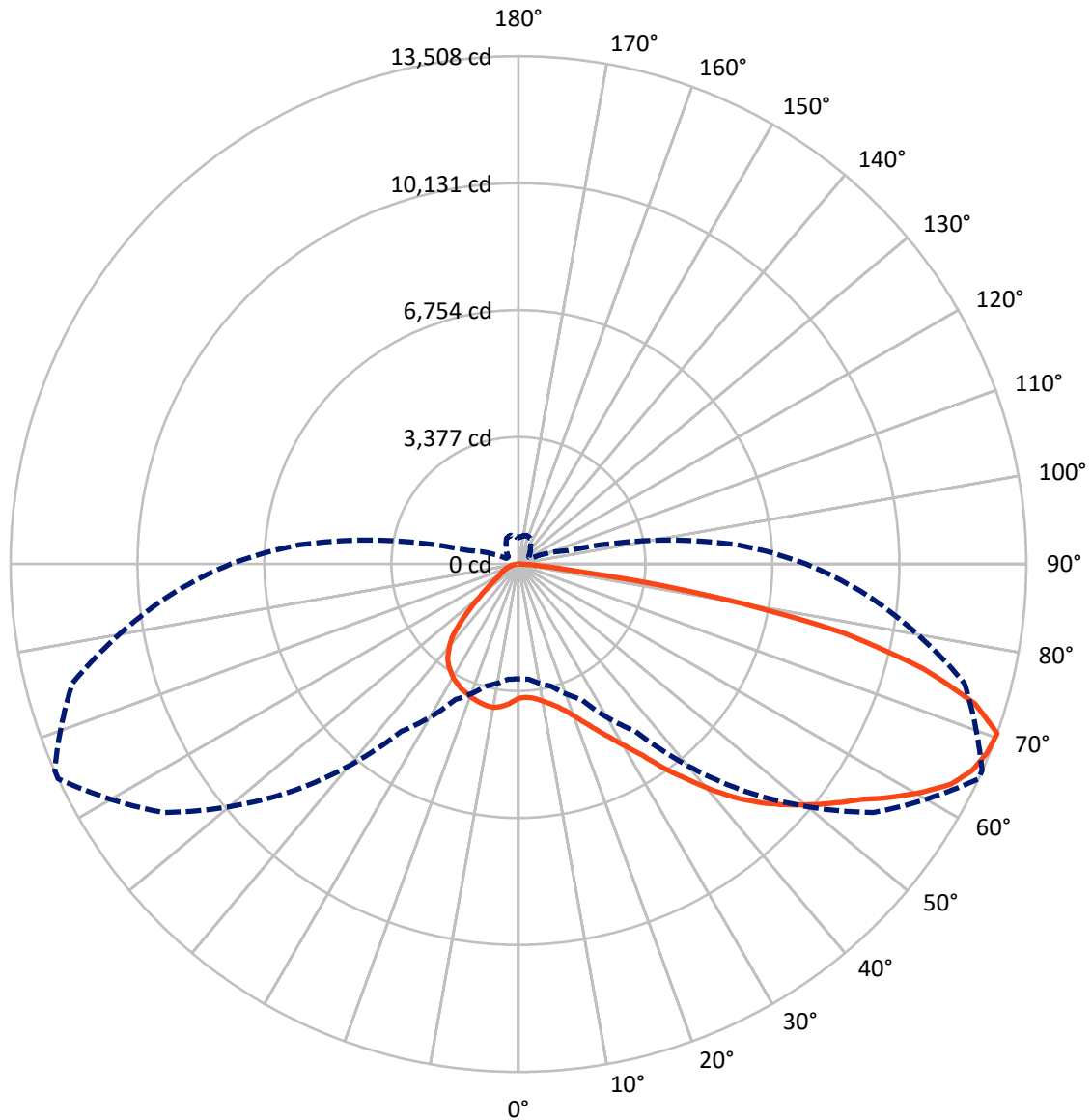
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P509895  
CATALOG NUMBER: VERD-M-CA3-160-740-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509895

CATALOG NUMBER: VERD-M-CA3-160-740-U-T3

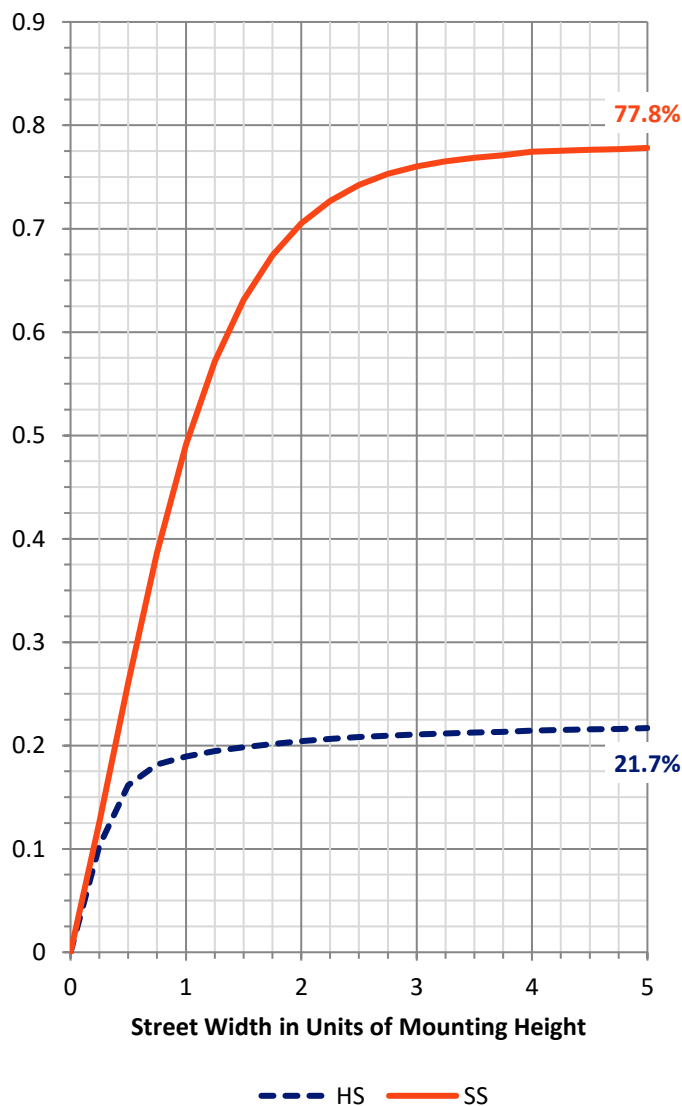
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5155.2	0.0	5155.2
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	18214.8	0.0	18214.8
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	23370.0	0.0	23370.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.9	1.5
10°-20°	1131.2	4.8
20°-30°	1962.5	8.4
30°-40°	2853.4	12.2
40°-50°	3812.2	16.3
50°-60°	4643.6	19.9
60°-70°	5005.8	21.4
70°-80°	3245.5	13.9
80°-90°	357.9	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°	23370.0	100.0
0°-180°	23370.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509895

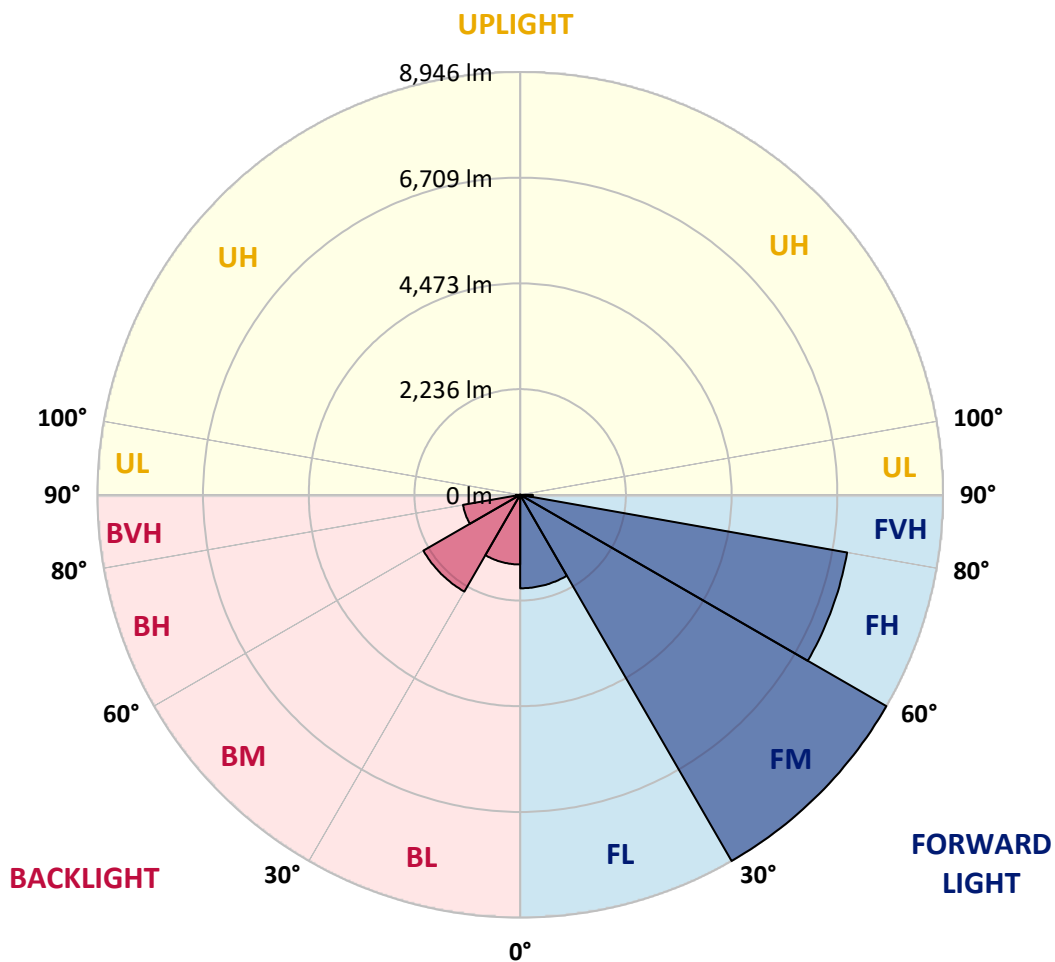
CATALOG NUMBER: VERD-M-CA3-160-740-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.8	8.5			
FM (30°-60°)	8945.6	38.3			
FH (60°-80°)	7024.5	30.1			G3/7500
FVH (80°-90°)	267.0	1.1			G3/500
BL (0°-30°)	1473.9	6.3	B3/2500		
BM (30°-60°)	2363.5	10.1	B2/2500		
BH (60°-80°)	1226.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	91.0	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: P509895

CATALOG NUMBER: VERD-M-CA3-160-740-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9
2.5°	3515.2	3546.9	3530.0	3531.1	3555.3	3535.3	3549.0	3549.0	3547.9	3555.3	3577.4
5°	3601.7	3635.4	3615.3	3602.7	3608.0	3582.7	3577.4	3573.2	3570.0	3578.5	3615.3
7.5°	3728.1	3767.1	3745.0	3733.4	3727.0	3669.1	3658.6	3630.1	3626.9	3634.3	3668.0
10°	3895.6	3948.3	3922.0	3889.3	3867.2	3799.8	3746.0	3720.7	3713.3	3709.1	3743.9
12.5°	4136.9	4183.3	4152.8	4091.6	4062.1	3953.6	3889.3	3817.7	3816.6	3801.9	3828.2
15°	4365.6	4414.1	4375.1	4315.0	4276.0	4129.6	4034.7	3946.2	3935.7	3918.8	3927.3
17.5°	4586.9	4645.9	4618.5	4563.7	4516.3	4353.0	4228.6	4114.8	4103.2	4076.9	4037.9
20°	4861.9	4915.7	4908.3	4858.8	4806.1	4620.6	4484.7	4338.2	4325.6	4278.1	4190.7
22.5°	5136.9	5203.3	5162.2	5153.8	5124.3	4939.9	4750.2	4601.6	4589.0	4526.8	4366.7
25°	5396.2	5455.2	5469.9	5456.2	5459.4	5277.1	5088.5	4902.0	4889.3	4805.0	4573.2
27.5°	5702.8	5758.6	5762.9	5766.0	5802.9	5651.2	5429.9	5238.1	5229.7	5134.8	4840.8
30°	5937.8	6030.5	6049.5	6067.4	6086.3	6005.2	5803.9	5624.8	5608.0	5504.7	5142.2
32.5°	6152.7	6222.3	6289.7	6326.6	6412.0	6339.2	6173.8	6063.2	6064.2	6015.7	5622.7
35°	6319.2	6396.1	6481.5	6616.4	6740.7	6710.2	6658.5	6664.8	6665.9	6687.0	6270.8
37.5°	6478.3	6547.9	6655.4	6816.6	7035.8	7075.8	7110.6	7242.3	7288.7	7387.7	6869.3
40°	6574.2	6648.0	6787.1	7010.5	7295.0	7439.3	7544.7	7883.0	7963.0	7964.1	7331.9
42.5°	6434.1	6515.2	6763.9	7161.2	7528.9	7798.7	8075.8	8502.6	8560.5	8430.9	7727.0
45°	6308.7	6383.5	6651.1	7184.3	7712.3	8182.2	8567.9	9062.1	9104.2	8842.9	8091.6
47.5°	6187.5	6246.5	6556.3	7135.9	7899.8	8566.8	8987.3	9567.9	9598.4	9293.9	8447.8
50°	6020.0	6090.6	6419.3	7079.0	8012.6	8896.6	9398.2	10067.3	10063.1	9699.6	8770.2
52.5°	5836.6	5906.2	6259.2	6974.6	8086.3	9152.7	9866.1	10556.3	10559.4	10165.3	9089.5
55°	5605.8	5691.2	6063.2	6833.4	8104.2	9354.0	10271.8	11057.8	11109.5	10640.6	9397.2
57.5°	5329.8	5415.1	5821.9	6626.9	7997.8	9522.6	10704.8	11698.5	11725.9	11126.3	9626.9
60°	5008.4	5111.6	5500.5	6350.8	7794.4	9718.6	11229.6	12326.5	12336.0	11560.5	9818.7
62.5°	4636.4	4710.2	5119.0	5950.4	7469.9	9796.5	11663.7	12902.9	12905.0	11888.2	9905.1
65°	4233.9	4262.3	4604.8	5405.6	6996.8	9669.0	11830.2	13253.8	13244.3	12175.9	9861.9
67.5°	3754.4	3740.7	4106.4	4732.3	6398.3	9244.4	11749.1	13434.0	13462.5	12397.1	9722.8
70°	3052.7	3072.7	3363.5	3978.9	5432.0	8562.6	11525.7	13507.8	13500.4	12286.5	9274.9
72.5°	2317.2	2353.0	2563.7	3025.3	4216.0	7201.2	10568.9	12692.2	12706.9	11506.7	8468.8
75°	1433.1	1536.3	1714.4	1995.8	2641.7	5159.1	8995.7	11117.9	11192.7	10152.7	6973.6
77.5°	628.0	652.3	741.8	962.1	1381.4	2590.1	6650.1	8878.7	9100.0	8210.7	5030.5
80°	388.8	388.8	414.1	482.6	616.4	963.1	2664.9	5301.3	5076.9	4696.5	2219.2
82.5°	323.5	323.5	336.1	347.7	316.1	407.8	891.5	1485.8	1592.2	1288.7	681.8
85°	176.0	180.2	181.2	184.4	181.2	220.2	350.9	439.4	444.7	402.5	242.4
87.5°	64.3	68.5	66.4	62.2	55.8	52.7	67.4	68.5	70.6	65.3	35.8
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: P509895

CATALOG NUMBER: VERD-M-CA3-160-740-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9	3567.9
2.5°	3592.2	3606.9	3645.9	3649.1	3663.8	3669.1	3681.7	3699.6	3731.3	3715.5	3697.5
5°	3633.3	3652.2	3714.4	3746.0	3787.1	3811.3	3851.4	3871.4	3919.9	3904.1	3902.0
7.5°	3695.4	3735.5	3791.3	3821.9	3875.6	3891.4	3920.9	3920.9	3961.0	3941.0	3935.7
10°	3779.7	3806.1	3865.1	3867.2	3897.7	3897.7	3932.5	3910.4	3949.4	3926.2	3925.1
12.5°	3847.2	3861.9	3884.1	3866.1	3881.9	3864.0	3881.9	3855.6	3879.8	3850.3	3844.0
15°	3923.0	3903.0	3880.9	3838.7	3825.0	3796.6	3781.8	3754.4	3756.5	3722.8	3717.6
17.5°	4008.4	3956.8	3892.5	3800.8	3750.2	3677.5	3647.0	3608.0	3585.8	3555.3	3569.0
20°	4111.7	4034.7	3900.9	3758.7	3651.2	3540.5	3468.9	3405.7	3400.4	3373.0	3358.2
22.5°	4245.5	4122.2	3937.8	3698.6	3525.8	3367.7	3261.3	3155.9	3145.4	3089.5	3068.5
25°	4410.9	4238.1	3956.8	3652.2	3379.3	3162.2	2994.7	2848.2	2777.6	2718.6	2704.9
27.5°	4633.3	4408.8	3994.7	3569.0	3206.5	2907.2	2667.0	2473.1	2388.8	2359.3	2328.7
30°	4893.5	4617.4	4065.3	3499.4	3002.1	2581.6	2288.7	2057.9	1966.3	1919.9	1905.1
32.5°	5277.1	4880.9	4130.6	3384.6	2754.5	2223.4	1841.9	1586.9	1531.1	1522.6	1542.7
35°	5835.6	5376.1	4225.5	3278.2	2463.6	1825.1	1403.6	1237.1	1225.5	1227.6	1227.6
37.5°	6417.2	5848.2	4506.8	3121.1	2107.5	1374.1	1068.5	977.9	982.1	982.1	981.0
40°	6796.6	6227.5	4711.2	2898.8	1664.9	985.2	792.4	723.9	753.4	793.5	814.5
42.5°	7214.9	6572.1	4852.4	2642.8	1158.0	696.5	576.4	600.6	687.0	748.1	756.6
45°	7571.1	6865.1	4868.2	2244.4	746.0	529.0	525.8	595.4	695.5	761.8	767.1
47.5°	7876.6	7131.6	4769.2	1789.2	543.7	494.2	525.8	613.3	703.9	745.0	749.2
50°	8172.7	7343.4	4536.3	1375.1	495.3	481.6	532.1	616.4	673.3	701.8	697.6
52.5°	8436.2	7536.3	4199.1	1072.7	476.3	473.1	537.4	613.3	649.1	647.0	643.8
55°	8636.4	7593.2	3935.7	836.7	460.5	467.9	540.6	616.4	642.8	623.8	619.6
57.5°	8739.6	7522.6	3714.4	664.9	443.6	462.6	549.0	615.4	661.7	697.6	695.5
60°	8737.5	7442.5	3441.5	573.2	426.8	458.4	562.7	668.1	835.6	869.3	870.4
62.5°	8703.8	7305.5	3067.4	518.4	407.8	460.5	572.2	758.7	951.5	924.1	902.0
65°	8592.1	7048.4	2565.8	459.4	383.6	462.6	568.0	820.9	872.5	774.5	760.8
67.5°	8281.3	6551.0	2014.7	411.0	361.4	451.0	575.3	762.9	801.9	739.7	719.7
70°	7650.1	5850.3	1365.6	354.1	336.1	434.1	558.5	750.3	791.4	728.1	698.6
72.5°	6650.1	4695.4	798.7	304.5	299.3	399.4	550.0	758.7	804.0	733.4	695.5
75°	5175.9	3291.9	461.5	246.6	249.7	368.8	504.7	715.5	796.6	741.8	692.3
77.5°	3341.4	1598.5	325.6	197.0	194.9	290.8	409.9	625.9	767.1	749.2	708.1
80°	1196.0	583.8	228.7	146.5	142.3	197.0	315.1	503.7	649.1	672.3	672.3
82.5°	429.9	292.9	146.5	89.6	88.5	125.4	235.0	382.5	471.0	531.1	545.8
85°	180.2	127.5	71.7	45.3	36.9	48.5	121.2	237.1	319.3	343.5	374.1
87.5°	26.3	23.2	19.0	14.8	12.6	12.6	15.8	68.5	113.8	163.3	202.3
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)