

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: P510321

Luminaire Tested: **VERD-M-CA4-250-730-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-250-730-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1130mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33885 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

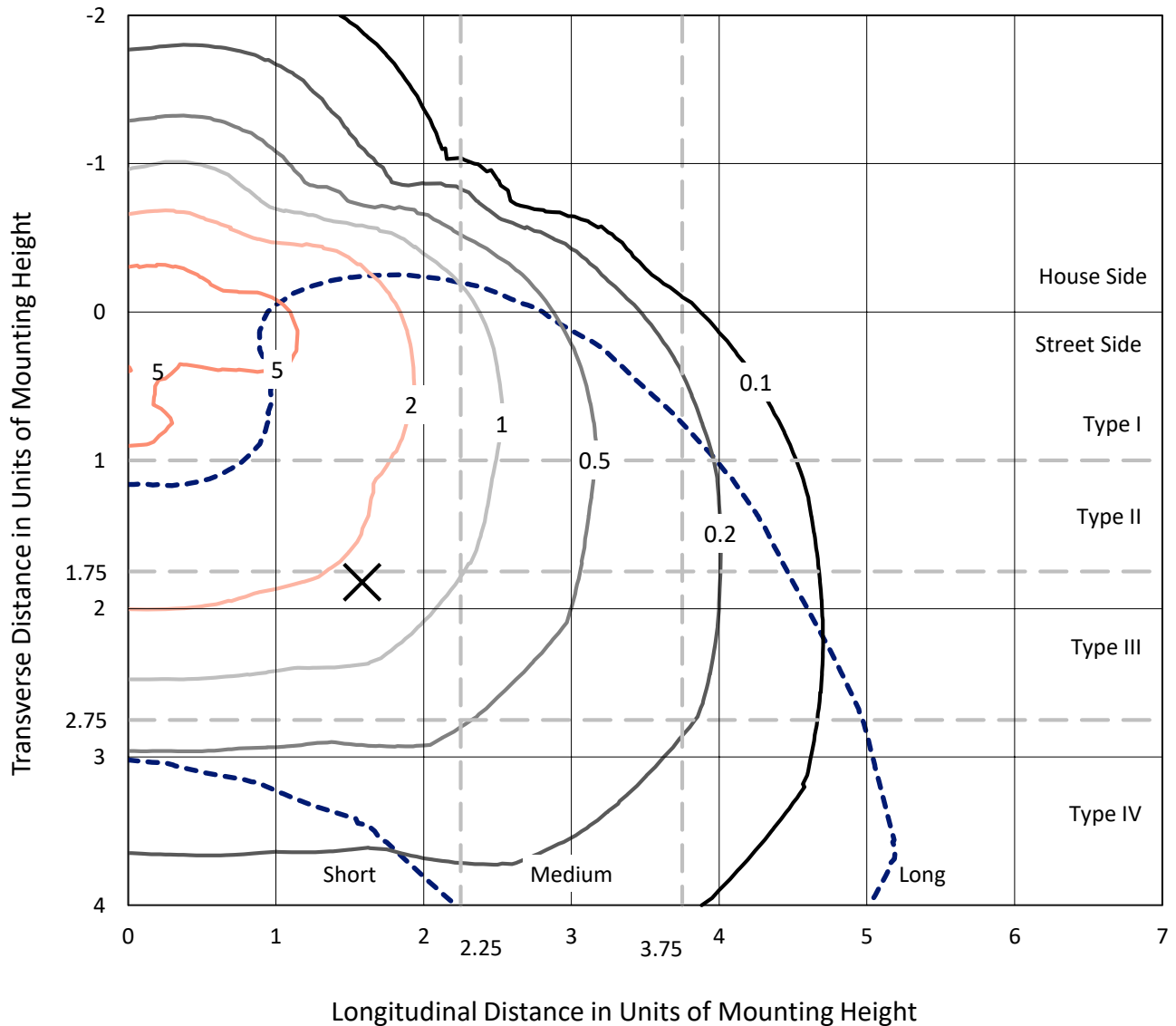
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510321
 CATALOG NUMBER: VERD-M-CA4-250-730-U-T4

Iso-Footcandle Lines of Horizontal Illumination

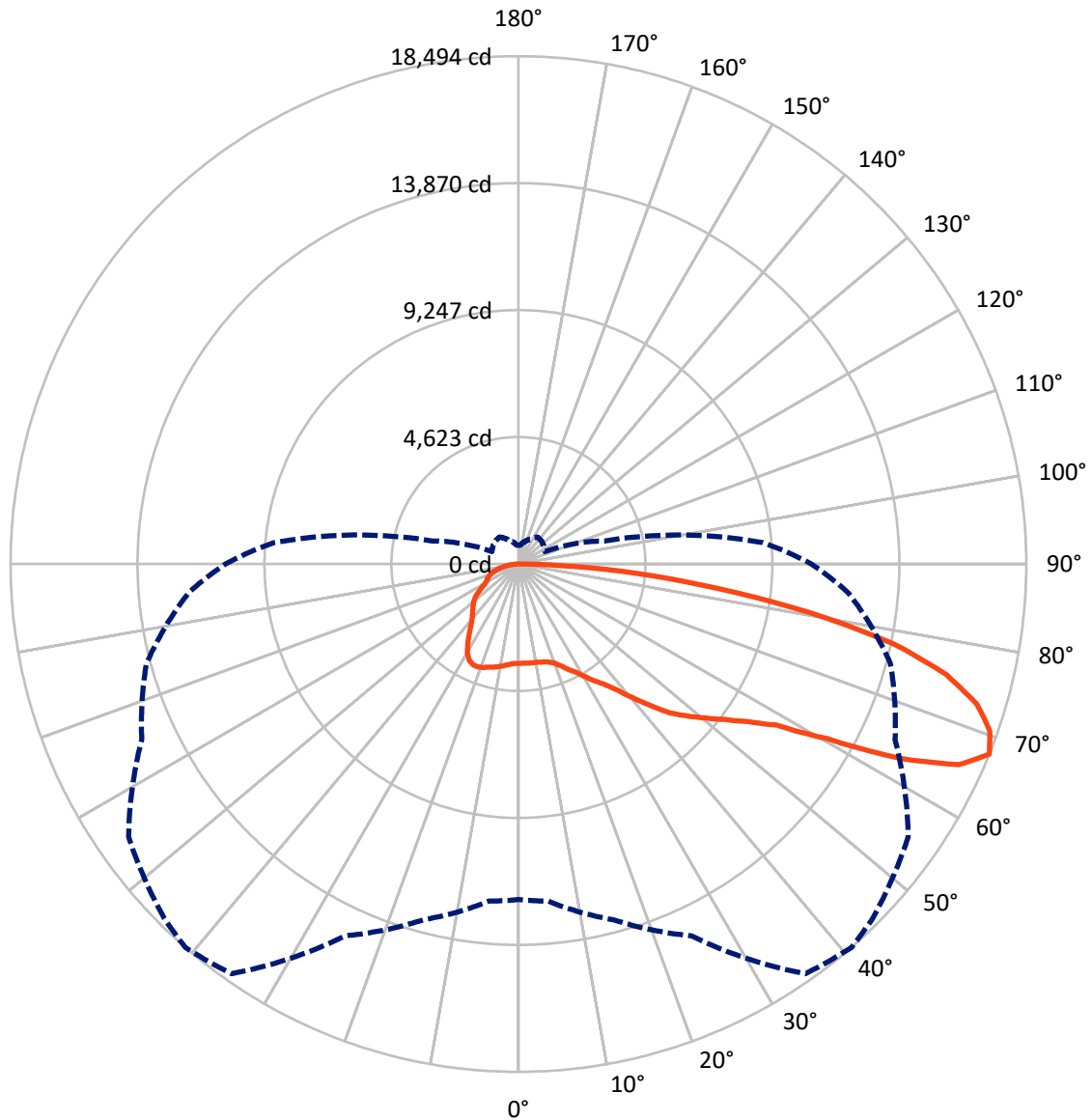
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P510321
CATALOG NUMBER: VERD-M-CA4-250-730-U-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P510321

CATALOG NUMBER: VERD-M-CA4-250-730-U-T4

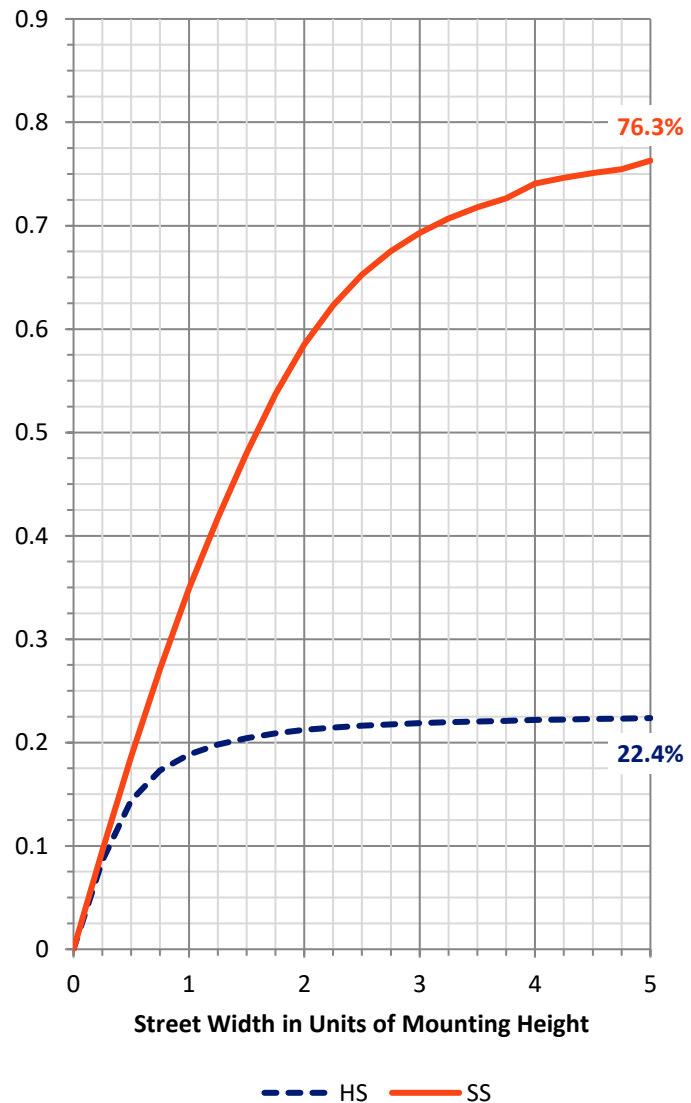
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7668.0	0.0	7668.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26217.0	0.0	26217.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	33885.0	0.0	33885.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.6	1.0
10°-20°	1084.2	3.2
20°-30°	1938.9	5.7
30°-40°	3040.2	9.0
40°-50°	4714.5	13.9
50°-60°	6646.3	19.6
60°-70°	8472.5	25.0
70°-80°	6340.2	18.7
80°-90°	1298.5	3.8
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°	33885.0	100.0
0°-180°	33885.0	100.0



REPORT NUMBER: P510321

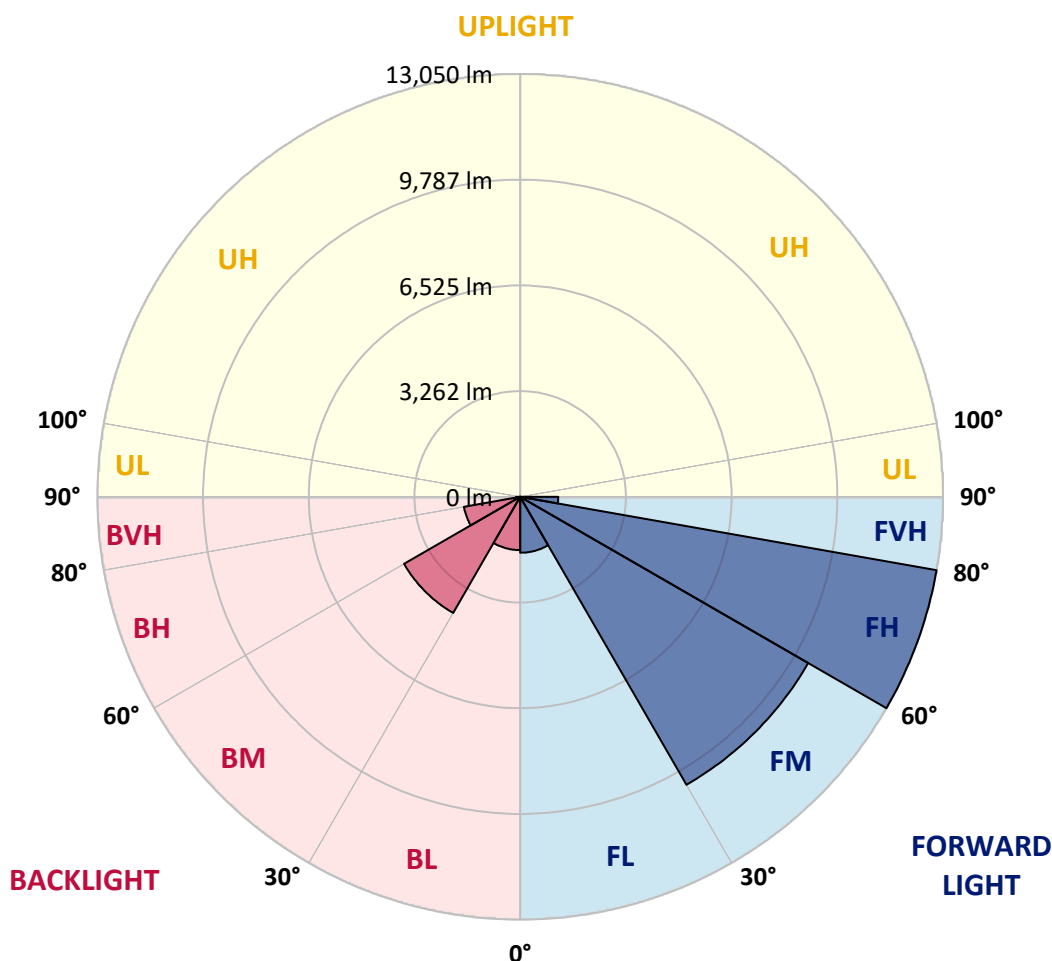
CATALOG NUMBER: VERD-M-CA4-250-730-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1726.5	5.1			
FM	(30°-60°)	10263.5	30.3			
FH	(60°-80°)	13049.8	38.5			G5
FVH	(80°-90°)	1177.2	3.5			G5
BL	(0°-30°)	1646.3	4.9	B3/2500		
BM	(30°-60°)	4137.6	12.2	B3/5000		
BH	(60°-80°)	1762.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	121.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P510321

CATALOG NUMBER: VERD-M-CA4-250-730-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8
2.5°	3573.3	3614.7	3608.6	3600.9	3613.2	3614.7	3579.5	3593.3	3600.9	3613.2	3633.1
5°	3582.5	3623.9	3620.9	3607.1	3616.3	3620.9	3588.7	3613.2	3613.2	3617.8	3640.8
7.5°	3562.6	3602.5	3602.5	3597.9	3617.8	3636.2	3607.1	3628.5	3640.8	3653.1	3668.4
10°	3544.2	3577.9	3590.2	3587.1	3633.1	3637.7	3617.8	3670.0	3689.9	3702.2	3720.6
12.5°	3524.3	3565.7	3582.5	3599.4	3648.5	3665.4	3654.6	3708.3	3749.7	3771.2	3791.1
15°	3515.1	3561.1	3588.7	3613.2	3666.9	3697.6	3697.6	3778.8	3827.9	3855.5	3890.8
17.5°	3579.5	3627.0	3648.5	3668.4	3717.5	3758.9	3755.8	3850.9	3923.0	3965.9	4030.4
20°	3739.0	3795.7	3808.0	3815.6	3846.3	3861.7	3857.1	3959.8	4059.5	4140.8	4212.9
22.5°	4016.5	4050.3	4056.4	4025.8	4033.4	4045.7	4038.0	4094.8	4208.3	4303.3	4432.2
25°	4243.5	4297.2	4281.9	4237.4	4243.5	4260.4	4237.4	4324.8	4406.1	4530.3	4660.7
27.5°	4482.8	4522.6	4505.8	4478.2	4472.0	4459.8	4455.2	4567.1	4686.7	4784.9	4978.1
30°	4774.2	4795.6	4746.6	4734.3	4745.0	4752.7	4723.5	4866.2	4975.1	5116.2	5376.9
32.5°	5264.9	5284.9	5214.3	5025.7	5030.3	5065.5	5041.0	5220.4	5425.9	5597.7	5863.0
35°	5890.6	5890.6	5835.4	5570.1	5369.2	5370.7	5376.9	5629.9	6011.8	6396.7	6669.7
37.5°	6524.0	6545.5	6441.2	6198.9	5944.3	5809.3	5695.9	6021.0	6520.9	7379.8	7786.2
40°	7183.5	7217.2	7060.8	6838.4	6545.5	6392.1	6260.2	6458.1	7132.9	8353.6	8675.7
42.5°	7760.1	7807.7	7646.6	7412.0	7208.0	7034.7	6835.3	6915.1	7806.1	9278.4	9460.9
45°	8296.9	8323.0	8186.5	7993.2	7824.5	7729.4	7589.9	7681.9	8576.0	10183.2	10149.5
47.5°	8692.6	8730.9	8606.7	8502.4	8329.1	8272.3	8270.8	8523.9	9442.5	10904.0	10747.6
50°	9335.1	9306.0	9026.9	8899.6	8793.8	8812.2	8856.7	9293.7	10460.8	11598.8	11250.6
52.5°	10413.3	10359.6	9740.0	9474.7	9344.3	9404.2	9427.2	9991.5	11488.3	12198.4	11666.2
55°	11807.3	11635.6	11184.7	10473.1	10063.6	10120.4	10094.3	10741.5	12310.4	12770.4	11974.5
57.5°	12729.0	12890.1	12673.8	12267.4	11250.6	11065.1	11003.7	11483.7	13071.0	13318.0	12293.5
60°	13529.6	13796.4	14140.0	13879.3	13604.7	12910.0	12338.0	12327.2	13741.2	13683.0	12422.3
62.5°	14374.6	14515.7	15044.8	15205.8	15715.0	15587.7	14820.9	13394.6	14411.4	13949.8	12497.5
65°	13520.4	13709.0	14672.1	15550.9	17435.7	17619.8	17369.8	15379.1	14876.1	14086.3	12390.1
67.5°	12219.9	12324.2	13414.6	14939.0	18214.8	18493.9	18242.4	17326.8	15133.8	14026.5	12058.8
70°	10552.8	10675.5	11716.9	13796.4	18174.9	18211.7	18113.6	17506.3	15031.0	13745.8	11224.6
72.5°	8556.1	8711.0	9626.5	11785.9	17303.8	17463.3	17308.4	17150.5	14742.7	12960.6	9787.6
75°	6473.4	6678.9	7496.3	9396.5	15291.7	16095.3	16115.3	16603.0	13623.1	11111.1	7103.7
77.5°	4415.3	4611.6	5386.1	7158.9	12693.8	13977.4	14311.7	14845.4	11382.5	8211.0	3875.5
80°	2486.0	2467.6	3450.6	5114.6	9681.7	10808.9	11229.2	11207.7	7993.2	4215.9	789.8
82.5°	1148.7	1151.7	1765.2	3265.1	6554.7	7298.5	7468.7	6501.0	2805.0	714.7	251.5
85°	572.0	578.2	849.6	1637.9	3700.6	4275.7	4064.1	2705.3	601.2	208.6	150.3
87.5°	227.0	217.8	335.9	673.3	1335.8	1415.5	1236.1	541.4	108.9	73.6	50.6
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: P510321

CATALOG NUMBER: VERD-M-CA4-250-730-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8	3617.8
2.5°	3628.5	3631.6	3645.4	3617.8	3625.5	3619.3	3614.7	3639.3	3637.7	3642.3	3634.7
5°	3639.3	3646.9	3660.7	3648.5	3660.7	3654.6	3659.2	3693.0	3697.6	3696.0	3696.0
7.5°	3668.4	3676.1	3702.2	3686.8	3714.4	3706.8	3708.3	3740.5	3746.6	3737.4	3734.4
10°	3729.8	3735.9	3772.7	3769.6	3780.4	3774.2	3768.1	3781.9	3778.8	3765.0	3758.9
12.5°	3800.3	3817.2	3858.6	3860.1	3873.9	3843.2	3811.0	3806.4	3797.2	3775.8	3771.2
15°	3906.1	3926.1	3988.9	3973.6	3964.4	3898.5	3844.8	3801.8	3765.0	3746.6	3729.8
17.5°	4058.0	4091.7	4179.1	4131.6	4064.1	3967.5	3873.9	3780.4	3702.2	3636.2	3610.1
20°	4251.2	4289.5	4363.1	4300.3	4197.5	4053.4	3901.5	3732.8	3562.6	3416.9	3395.4
22.5°	4481.2	4542.6	4596.3	4452.1	4300.3	4117.8	3901.5	3659.2	3377.0	3159.3	3105.6
25°	4749.6	4797.2	4780.3	4577.9	4358.5	4128.5	3858.6	3528.9	3130.1	2877.1	2834.1
27.5°	5041.0	5062.5	4932.1	4637.7	4364.7	4065.6	3737.4	3297.3	2841.8	2642.4	2601.0
30°	5399.9	5335.5	5087.0	4674.5	4303.3	3926.1	3521.2	2958.4	2607.2	2432.3	2384.8
32.5°	5786.3	5668.3	5197.4	4648.4	4168.4	3693.0	3186.9	2719.1	2450.7	2237.6	2197.7
35°	6522.5	6186.6	5358.5	4570.2	3933.7	3381.6	2863.3	2535.1	2285.1	2056.6	2019.8
37.5°	7516.3	6932.0	5583.9	4461.3	3656.1	3079.5	2622.5	2338.8	2122.5	1886.4	1828.1
40°	8289.2	7685.0	5945.8	4344.7	3400.0	2792.7	2447.7	2236.0	2015.2	1763.7	1713.1
42.5°	9025.3	8373.6	6390.6	4214.4	3136.3	2593.4	2371.0	2213.0	1986.0	1729.9	1682.4
45°	9675.6	8930.3	6774.0	4084.0	2838.7	2409.3	2314.2	2168.5	1944.6	1687.0	1641.0
47.5°	10201.6	9408.8	7106.8	3942.9	2568.8	2269.8	2240.6	2087.3	1864.9	1599.6	1544.4
50°	10677.1	9813.6	7336.8	3792.6	2305.0	2156.3	2119.5	1938.5	1706.9	1472.3	1437.0
52.5°	10970.0	10088.1	7474.9	3817.2	2055.0	2029.0	1969.2	1783.6	1568.9	1368.0	1322.0
55°	11276.7	10347.3	7473.3	3679.2	1846.5	1837.3	1780.5	1637.9	1469.2	1300.5	1272.9
57.5°	11402.5	10370.3	7333.8	3030.4	1662.4	1604.2	1591.9	1516.7	1369.5	1210.0	1179.4
60°	11486.8	10269.1	7070.0	2068.9	1430.9	1389.5	1449.3	1398.7	1265.2	1098.1	1067.4
62.5°	11404.0	10158.7	6378.3	1493.7	1254.5	1277.5	1334.2	1279.0	1139.5	987.7	961.6
65°	11206.2	9736.9	5036.4	1164.0	1176.3	1226.9	1271.4	1179.4	923.2	772.9	757.6
67.5°	10666.3	8934.9	3240.5	1067.4	1131.8	1184.0	1199.3	998.4	835.8	691.7	674.8
70°	9529.9	7172.7	1248.4	1006.1	1087.3	1110.3	1047.5	915.6	768.3	644.1	628.8
72.5°	7454.9	4709.7	720.8	920.2	992.3	970.8	972.3	822.0	693.2	575.1	562.8
75°	4633.1	1705.4	641.1	819.0	840.4	880.3	829.7	713.1	596.6	526.0	510.7
77.5°	1532.1	484.6	593.5	705.5	753.0	723.9	694.7	608.8	510.7	455.5	447.8
80°	371.1	363.5	532.2	552.1	590.4	541.4	538.3	506.1	430.9	398.7	391.1
82.5°	228.5	260.7	423.3	343.5	394.1	398.7	454.0	417.1	314.4	326.7	315.9
85°	141.1	200.9	222.4	165.6	167.2	223.9	271.5	251.5	188.6	177.9	176.4
87.5°	47.5	41.4	47.5	35.3	47.5	81.3	122.7	116.6	78.2	53.7	50.6
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)