

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: P509999

Luminaire Tested: **VERD-M-CA3-180-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509999
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-CA3-180-750-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26040 lumens
Efficiency: N/A
Efficacy: 142.2 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

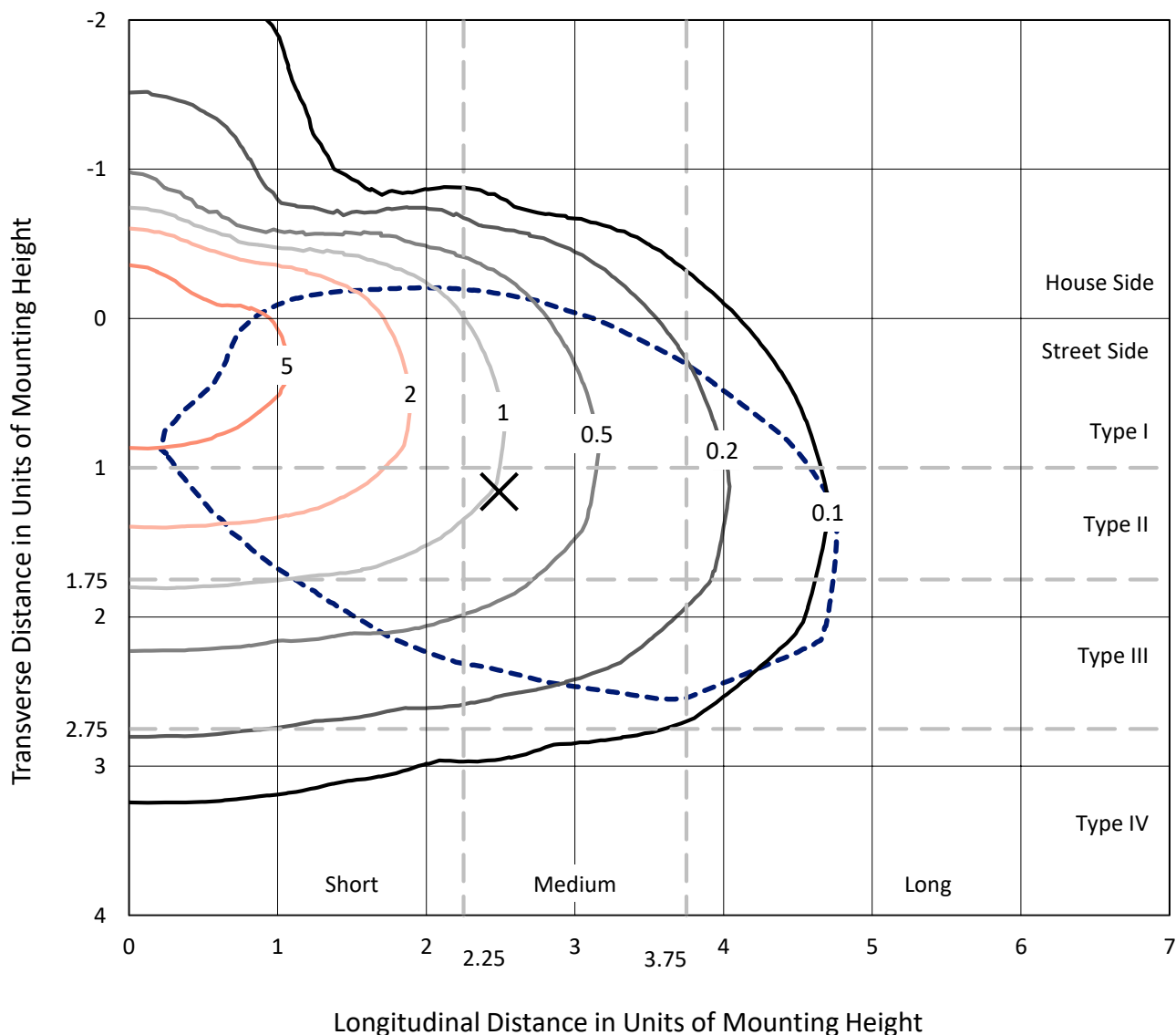
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509999
 CATALOG NUMBER: VERD-M-CA3-180-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

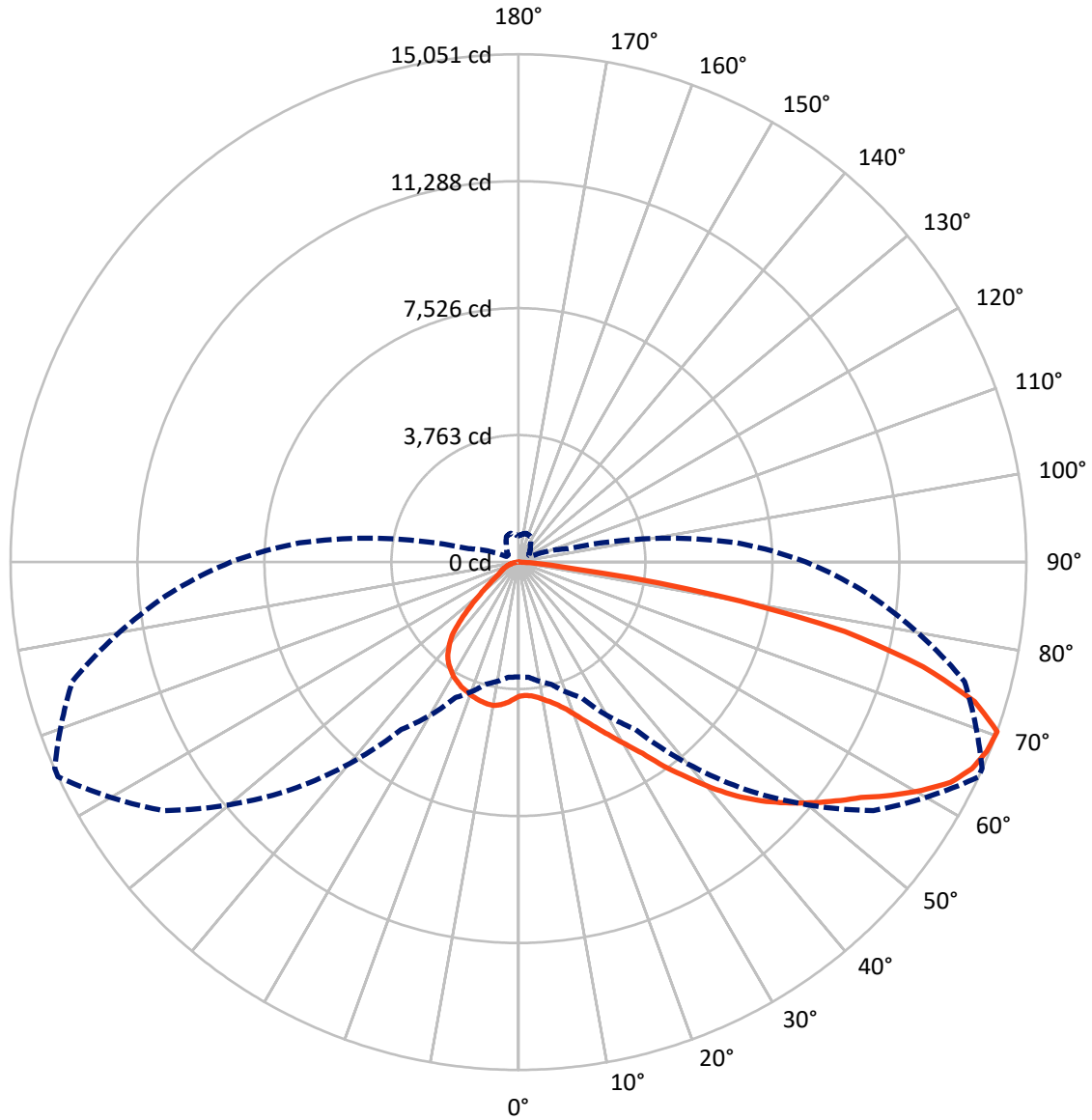
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P509999
CATALOG NUMBER: VERD-M-CA3-180-750-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509999

CATALOG NUMBER: VERD-M-CA3-180-750-U-T3

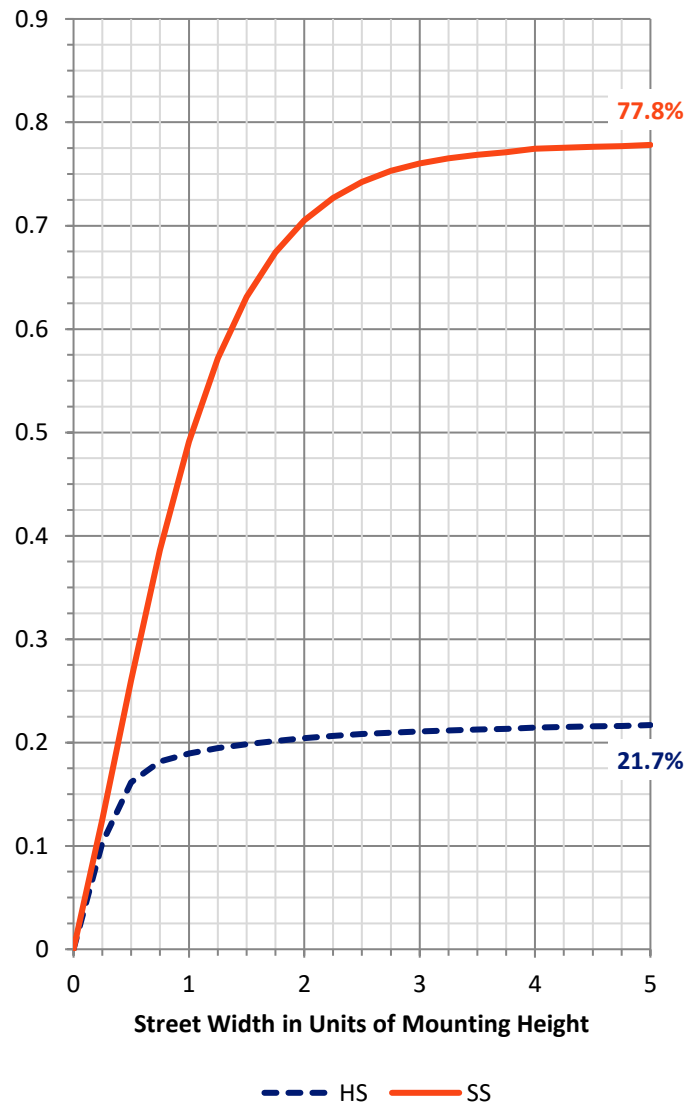
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5744.2	0.0	5744.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20295.8	0.0	20295.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	26040.0	0.0	26040.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.8	1.5
10°-20°	1260.5	4.8
20°-30°	2186.7	8.4
30°-40°	3179.4	12.2
40°-50°	4247.7	16.3
50°-60°	5174.1	19.9
60°-70°	5577.8	21.4
70°-80°	3616.3	13.9
80°-90°	398.8	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°	26040.0	100.0
0°-180°	26040.0	100.0



REPORT NUMBER: P509999

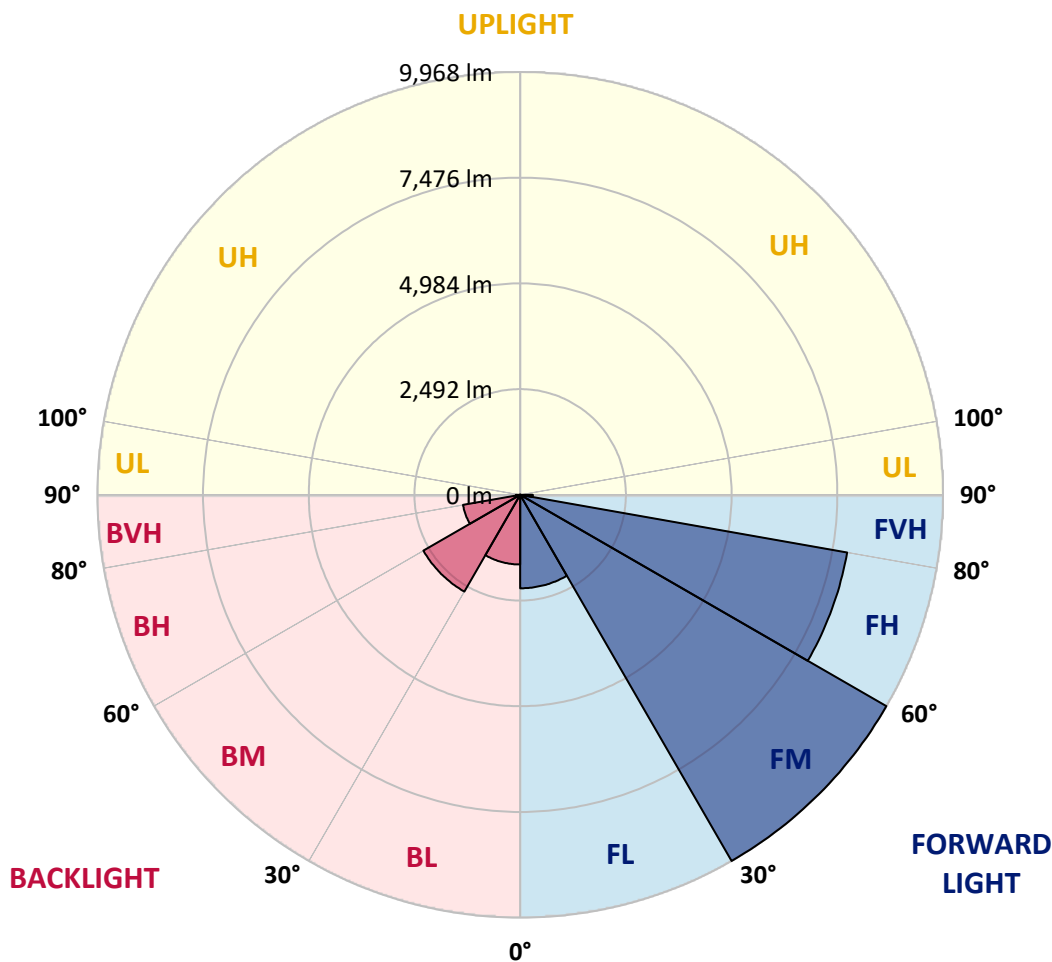
CATALOG NUMBER: VERD-M-CA3-180-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2203.7	8.5			
FM	(30°-60°)	9967.6	38.3			
FH	(60°-80°)	7827.0	30.1			G4/12000
FVH	(80°-90°)	297.5	1.1			G3/500
BL	(0°-30°)	1642.2	6.3	B3/2500		
BM	(30°-60°)	2633.5	10.1	B3/5000		
BH	(60°-80°)	1367.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	101.4	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-G4

Type III Medium





REPORT NUMBER: P509999

CATALOG NUMBER: VERD-M-CA3-180-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6
2.5°	3916.9	3952.1	3933.3	3934.5	3961.5	3939.2	3954.4	3954.4	3953.3	3961.5	3986.1
5°	4013.1	4050.7	4028.4	4014.3	4020.2	3992.0	3986.1	3981.4	3977.9	3987.3	4028.4
7.5°	4154.0	4197.5	4172.8	4159.9	4152.9	4088.3	4076.5	4044.8	4041.3	4049.5	4087.1
10°	4340.7	4399.4	4370.1	4333.7	4309.0	4233.9	4174.0	4145.8	4137.6	4132.9	4171.6
12.5°	4609.6	4661.2	4627.2	4559.1	4526.2	4405.3	4333.7	4253.8	4252.7	4236.2	4265.6
15°	4864.4	4918.4	4874.9	4808.0	4764.6	4601.4	4495.7	4397.1	4385.3	4366.5	4375.9
17.5°	5110.9	5176.7	5146.2	5085.1	5032.3	4850.3	4711.7	4584.9	4572.0	4542.7	4499.2
20°	5417.4	5477.3	5469.0	5413.9	5355.2	5148.5	4997.0	4833.8	4819.8	4766.9	4669.5
22.5°	5723.8	5797.8	5752.0	5742.6	5709.7	5504.3	5292.9	5127.4	5113.3	5044.0	4865.5
25°	6012.7	6078.4	6094.8	6079.6	6083.1	5880.0	5669.8	5462.0	5447.9	5354.0	5095.7
27.5°	6354.3	6416.6	6421.3	6424.8	6465.9	6296.8	6050.2	5836.5	5827.1	5721.5	5393.9
30°	6616.2	6719.5	6740.6	6760.6	6781.7	6691.3	6467.0	6267.4	6248.7	6133.6	5729.7
32.5°	6855.7	6933.2	7008.3	7049.4	7144.5	7063.5	6879.2	6755.9	6757.1	6703.0	6265.1
35°	7041.2	7126.9	7222.0	7372.3	7510.8	7476.8	7419.3	7426.3	7427.5	7451.0	6987.2
37.5°	7218.5	7296.0	7415.7	7595.4	7839.6	7884.2	7923.0	8069.7	8121.4	8231.7	7654.1
40°	7325.3	7407.5	7562.5	7811.4	8128.4	8289.3	8406.7	8783.6	8872.8	8874.0	8169.5
42.5°	7169.2	7259.6	7536.7	7979.3	8389.1	8689.6	8998.4	9474.0	9538.5	9394.1	8609.8
45°	7029.4	7112.8	7411.0	8005.1	8593.4	9117.0	9546.8	10097.4	10144.4	9853.2	9016.1
47.5°	6894.4	6960.2	7305.4	7951.1	8802.4	9545.6	10014.1	10661.0	10695.0	10355.7	9412.9
50°	6707.7	6786.4	7152.7	7887.7	8928.0	9913.1	10472.0	11217.5	11212.8	10807.8	9772.2
52.5°	6503.4	6580.9	6974.3	7771.5	9010.2	10198.4	10993.3	11762.3	11765.8	11326.7	10127.9
55°	6246.3	6341.4	6755.9	7614.2	9030.1	10422.6	11445.3	12321.2	12378.7	11856.2	10470.8
57.5°	5938.7	6033.8	6487.0	7384.0	8911.6	10610.5	11927.9	13035.1	13065.6	12397.5	10726.7
60°	5580.6	5695.6	6128.9	7076.4	8685.0	10828.9	12512.6	13734.8	13745.4	12881.3	10940.4
62.5°	5166.1	5248.3	5703.9	6630.2	8323.3	10915.8	12996.3	14377.1	14379.4	13246.4	11036.7
65°	4717.6	4749.3	5130.9	6023.2	7796.1	10773.7	13181.8	14768.1	14757.5	13566.9	10988.6
67.5°	4183.4	4168.1	4575.5	5273.0	7129.2	10300.5	13091.4	14968.8	15000.5	13813.5	10833.6
70°	3401.4	3423.7	3747.8	4433.5	6052.6	9540.9	12842.5	15051.0	15042.8	13690.2	10334.6
72.5°	2581.9	2621.8	2856.6	3370.9	4697.6	8023.9	11776.4	14142.3	14158.7	12821.4	9436.4
75°	1596.8	1711.9	1910.3	2223.8	2943.5	5748.5	10023.4	12388.1	12471.5	11312.6	7770.3
77.5°	699.8	726.8	826.6	1072.0	1539.3	2886.0	7409.9	9893.1	10139.7	9148.7	5605.2
80°	433.2	433.2	461.4	537.7	686.9	1073.1	2969.3	5907.0	5656.9	5233.0	2472.7
82.5°	360.5	360.5	374.5	387.5	352.2	454.4	993.3	1655.5	1774.1	1435.9	759.7
85°	196.1	200.8	201.9	205.5	201.9	245.4	391.0	489.6	495.5	448.5	270.0
87.5°	71.6	76.3	74.0	69.3	62.2	58.7	75.1	76.3	78.7	72.8	39.9
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: P509999

CATALOG NUMBER: VERD-M-CA3-180-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6	3975.6
2.5°	4002.6	4019.0	4062.4	4066.0	4082.4	4088.3	4102.4	4122.3	4157.6	4139.9	4120.0
5°	4048.4	4069.5	4138.8	4174.0	4219.8	4246.8	4291.4	4313.7	4367.7	4350.1	4347.8
7.5°	4117.6	4162.2	4224.5	4258.5	4318.4	4336.0	4368.9	4368.9	4413.5	4391.2	4385.3
10°	4211.6	4240.9	4306.7	4309.0	4343.1	4343.1	4381.8	4357.2	4400.6	4374.8	4373.6
12.5°	4286.7	4303.1	4327.8	4307.8	4325.5	4305.5	4325.5	4296.1	4323.1	4290.2	4283.2
15°	4371.2	4348.9	4324.3	4277.3	4262.0	4230.3	4213.9	4183.4	4185.7	4148.2	4142.3
17.5°	4466.3	4408.8	4337.2	4235.0	4178.7	4097.7	4063.6	4020.2	3995.5	3961.5	3976.7
20°	4581.4	4495.7	4346.6	4188.1	4068.3	3945.0	3865.2	3794.8	3788.9	3758.4	3741.9
22.5°	4730.5	4593.2	4387.7	4121.2	3928.6	3752.5	3633.9	3516.5	3504.7	3442.5	3419.0
25°	4914.9	4722.3	4408.8	4069.5	3765.4	3523.5	3336.8	3173.6	3095.0	3029.2	3014.0
27.5°	5162.6	4912.5	4451.1	3976.7	3572.8	3239.4	2971.7	2755.7	2661.7	2628.9	2594.8
30°	5452.6	5145.0	4529.7	3899.2	3345.1	2876.6	2550.2	2293.1	2190.9	2139.2	2122.8
32.5°	5880.0	5438.5	4602.5	3771.3	3069.1	2477.4	2052.4	1768.2	1706.0	1696.6	1718.9
35°	6502.3	5990.4	4708.2	3652.7	2745.1	2033.6	1563.9	1378.4	1365.5	1367.8	1367.8
37.5°	7150.4	6516.4	5021.7	3477.7	2348.2	1531.1	1190.6	1089.6	1094.3	1094.3	1093.1
40°	7573.1	6939.0	5249.5	3230.0	1855.1	1097.8	882.9	806.6	839.5	884.1	907.6
42.5°	8039.2	7323.0	5406.8	2944.7	1290.4	776.1	642.2	669.2	765.5	833.6	843.0
45°	8436.0	7649.4	5424.4	2500.9	831.3	589.4	585.9	663.4	774.9	848.9	854.8
47.5°	8776.5	7946.4	5314.1	1993.7	605.8	550.7	585.9	683.3	784.3	830.1	834.8
50°	9106.5	8182.4	5054.6	1532.2	551.8	536.6	592.9	686.9	750.3	782.0	777.3
52.5°	9400.0	8397.3	4678.9	1195.3	530.7	527.2	598.8	683.3	723.3	720.9	717.4
55°	9623.1	8460.7	4385.3	932.2	513.1	521.3	602.3	686.9	716.2	695.1	690.4
57.5°	9738.1	8382.0	4138.8	740.9	494.3	515.4	611.7	685.7	737.3	777.3	774.9
60°	9735.8	8292.8	3834.7	638.7	475.5	510.7	627.0	744.4	931.1	968.6	969.8
62.5°	9698.2	8140.2	3417.9	577.7	454.4	513.1	637.5	845.4	1060.2	1029.7	1005.0
65°	9573.8	7853.7	2859.0	511.9	427.4	515.4	632.8	914.6	972.2	863.0	847.7
67.5°	9227.4	7299.5	2244.9	457.9	402.7	502.5	641.1	850.1	893.5	824.2	801.9
70°	8524.1	6518.7	1521.7	394.5	374.5	483.7	622.3	836.0	881.8	811.3	778.4
72.5°	7409.9	5231.9	890.0	339.3	333.4	445.0	612.9	845.4	895.9	817.2	774.9
75°	5767.3	3667.9	514.3	274.7	278.3	410.9	562.4	797.2	887.6	826.6	771.4
77.5°	3723.1	1781.1	362.8	219.6	217.2	324.1	456.7	697.4	854.8	834.8	789.0
80°	1332.6	650.5	254.8	163.2	158.5	219.6	351.1	561.2	723.3	749.1	749.1
82.5°	479.0	326.4	163.2	99.8	98.6	139.7	261.8	426.2	524.8	591.8	608.2
85°	200.8	142.1	79.8	50.5	41.1	54.0	135.0	264.2	355.8	382.8	416.8
87.5°	29.4	25.8	21.1	16.4	14.1	14.1	17.6	76.3	126.8	182.0	225.4
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)