

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: P510071

Luminaire Tested: **VERD-M-CA4-200-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510071
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-CA4-200-727-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 910mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24413 lumens
Efficiency: N/A
Efficacy: 121.0 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

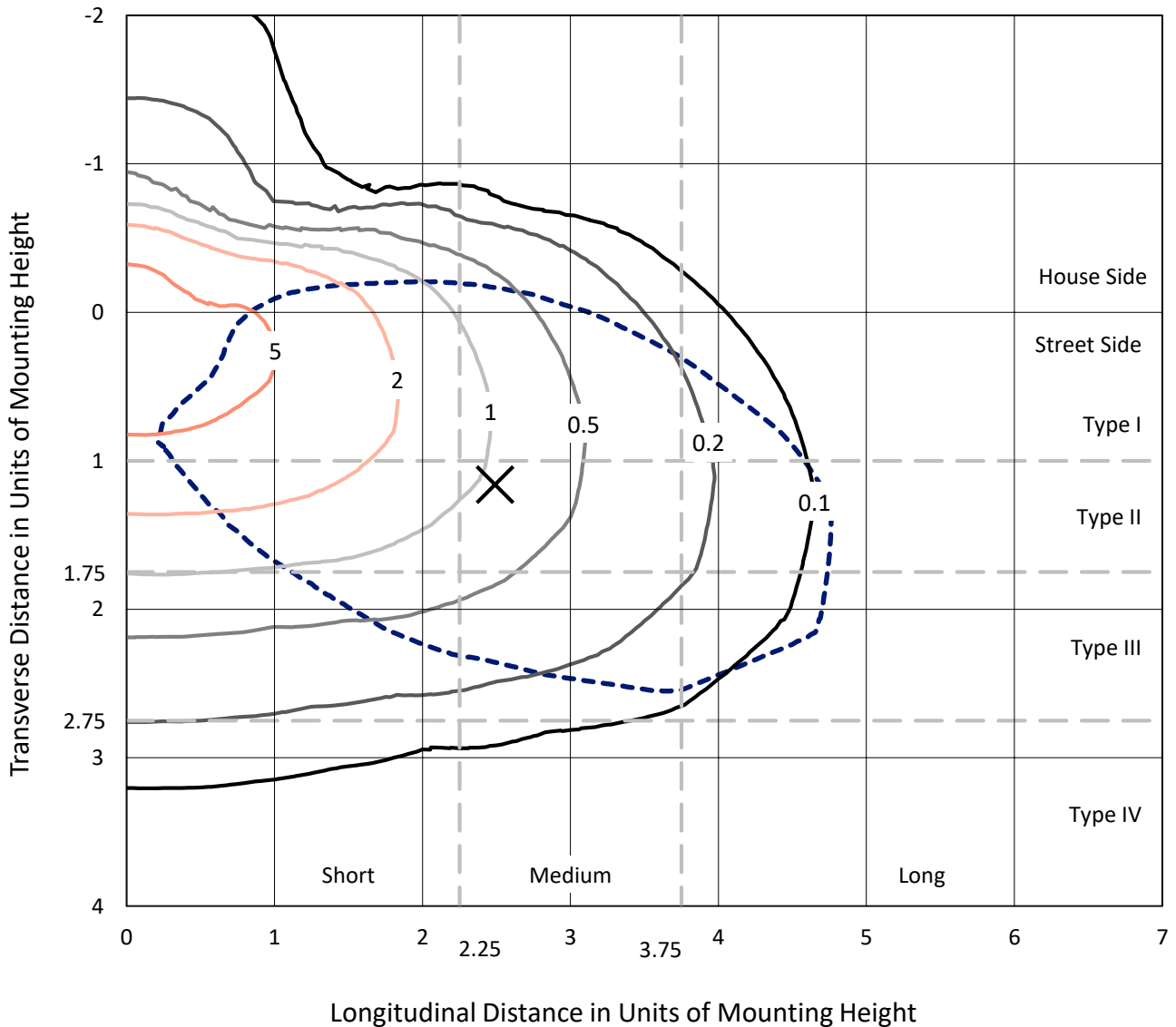
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

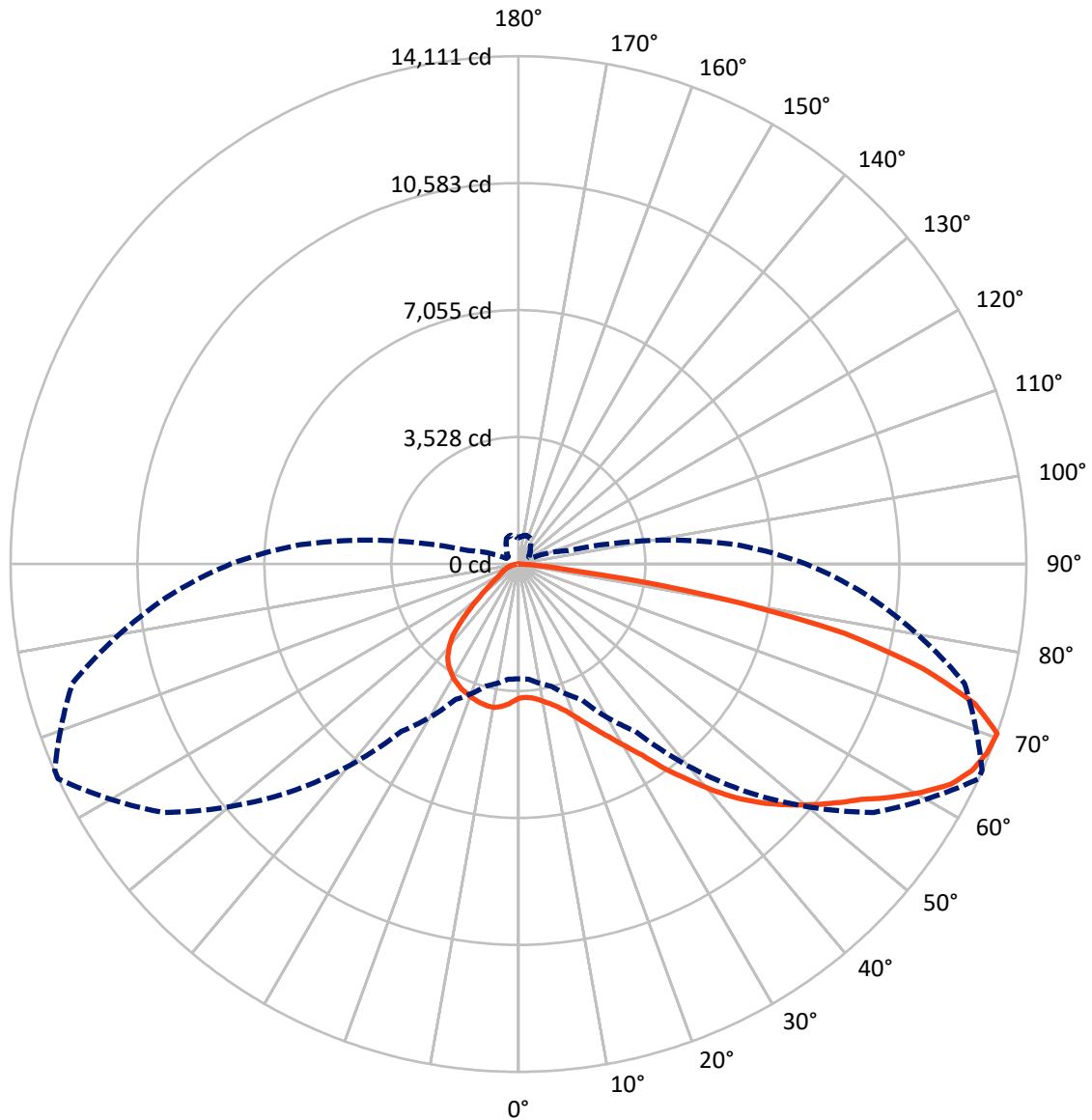
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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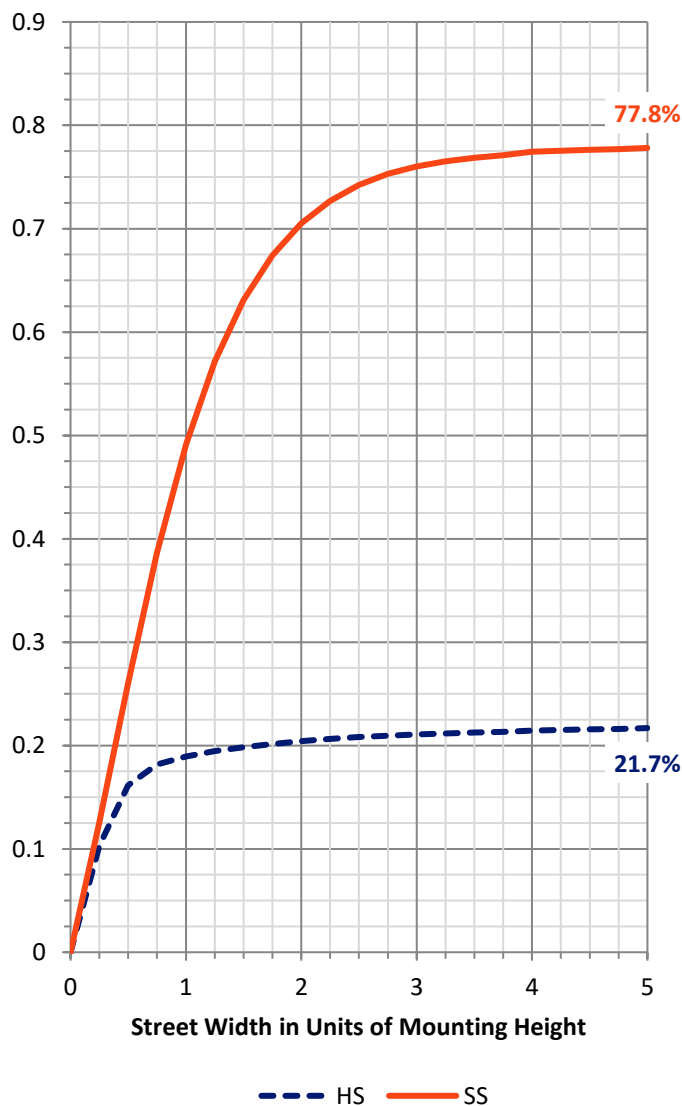
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5385.3	0.0	5385.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	19027.7	0.0	19027.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	24413.0	0.0	24413.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	1.5
10°-20°	1181.7	4.8
20°-30°	2050.1	8.4
30°-40°	2980.7	12.2
40°-50°	3982.3	16.3
50°-60°	4850.8	19.9
60°-70°	5229.3	21.4
70°-80°	3390.3	13.9
80°-90°	373.9	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°	24413.0	100.0
0°-180°	24413.0	100.0



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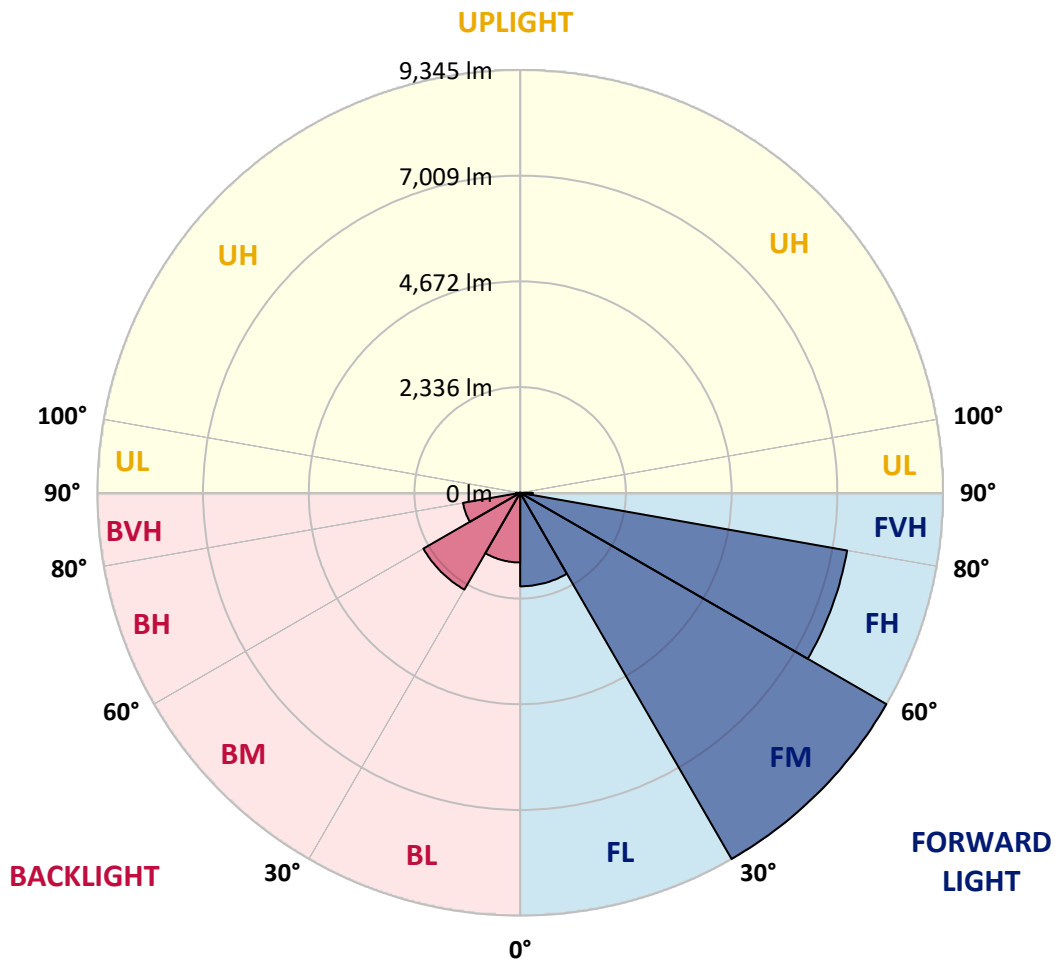
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.0	8.5			
FM (30°-60°)	9344.9	38.3			
FH (60°-80°)	7338.0	30.1			G3/7500
FVH (80°-90°)	278.9	1.1			G3/500
BL (0°-30°)	1539.6	6.3	B3/2500		
BM (30°-60°)	2469.0	10.1	B2/2500		
BH (60°-80°)	1281.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	95.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2
2.5°	3672.1	3705.2	3687.5	3688.6	3714.0	3693.0	3707.4	3707.4	3706.3	3714.0	3737.1
5°	3762.4	3797.6	3776.7	3763.5	3769.0	3742.6	3737.1	3732.7	3729.4	3738.2	3776.7
7.5°	3894.5	3935.2	3912.1	3900.0	3893.4	3832.8	3821.8	3792.1	3788.8	3796.5	3831.7
10°	4069.5	4124.5	4097.0	4062.9	4039.8	3969.3	3913.2	3886.8	3879.1	3874.7	3911.0
12.5°	4321.6	4370.0	4338.1	4274.2	4243.4	4130.0	4062.9	3988.0	3986.9	3971.5	3999.1
15°	4560.4	4611.1	4570.3	4507.6	4466.9	4313.9	4214.8	4122.3	4111.3	4093.7	4102.5
17.5°	4791.6	4853.2	4824.6	4767.4	4717.9	4547.2	4417.3	4298.5	4286.4	4258.8	4218.1
20°	5078.9	5135.0	5127.3	5075.6	5020.6	4826.8	4684.8	4531.8	4518.6	4469.1	4377.7
22.5°	5366.2	5435.5	5392.6	5383.8	5353.0	5160.4	4962.2	4807.0	4793.8	4728.9	4561.5
25°	5637.0	5698.6	5714.0	5699.7	5703.0	5512.6	5315.6	5120.7	5107.5	5019.5	4777.3
27.5°	5957.3	6015.6	6020.0	6023.4	6061.9	5903.4	5672.2	5471.9	5463.1	5364.0	5056.9
30°	6202.8	6299.6	6319.5	6338.2	6358.0	6273.2	6063.0	5875.8	5858.2	5750.4	5371.7
32.5°	6427.3	6500.0	6570.4	6609.0	6698.1	6622.2	6449.3	6333.8	6334.9	6284.2	5873.6
35°	6601.2	6681.6	6770.8	6911.7	7041.6	7009.6	6955.7	6962.3	6963.4	6985.4	6550.6
37.5°	6767.5	6840.1	6952.4	7120.8	7349.8	7391.6	7427.9	7565.5	7613.9	7717.4	7175.8
40°	6867.6	6944.7	7090.0	7323.3	7620.6	7771.4	7881.4	8234.8	8318.4	8319.5	7659.1
42.5°	6721.2	6806.0	7065.8	7480.8	7864.9	8146.7	8436.2	8882.0	8942.6	8807.2	8071.9
45°	6590.2	6668.4	6948.0	7505.0	8056.5	8547.4	8950.3	9466.5	9510.6	9237.6	8452.7
47.5°	6463.7	6525.3	6848.9	7454.3	8252.4	8949.2	9388.4	9994.9	10026.8	9708.7	8824.8
50°	6288.6	6362.4	6705.8	7394.9	8370.2	9293.7	9817.7	10516.6	10512.2	10132.5	9161.6
52.5°	6097.1	6169.8	6538.5	7285.9	8447.2	9561.2	10306.4	11027.4	11030.7	10619.0	9495.1
55°	5856.0	5945.2	6333.8	7138.4	8465.9	9771.4	10730.2	11551.4	11605.3	11115.5	9816.6
57.5°	5567.6	5656.8	6081.7	6922.7	8354.8	9947.6	11182.6	12220.6	12249.2	11622.9	10056.5
60°	5231.9	5339.8	5746.0	6634.3	8142.3	10152.3	11730.8	12876.7	12886.6	12076.4	10256.9
62.5°	4843.3	4920.4	5347.5	6216.0	7803.3	10233.8	12184.3	13478.8	13481.0	12418.8	10347.1
65°	4422.8	4452.6	4810.3	5646.9	7309.0	10100.6	12358.2	13845.3	13835.4	12719.3	10302.0
67.5°	3922.0	3907.7	4289.7	4943.5	6683.8	9657.0	12273.5	14033.6	14063.3	12950.4	10156.7
70°	3188.9	3209.8	3513.6	4156.5	5674.4	8944.8	12040.1	14110.6	14102.9	12834.8	9688.9
72.5°	2420.6	2458.0	2678.1	3160.3	4404.1	7522.6	11040.6	13258.6	13274.0	12020.3	8846.8
75°	1497.0	1604.9	1790.9	2084.8	2759.6	5389.3	9397.2	11614.1	11692.3	10605.8	7284.8
77.5°	656.1	681.4	774.9	1005.0	1443.1	2705.7	6946.9	9275.0	9506.1	8577.1	5255.0
80°	406.2	406.2	432.6	504.1	643.9	1006.1	2783.8	5537.9	5303.5	4906.1	2318.2
82.5°	337.9	337.9	351.1	363.3	330.2	426.0	931.2	1552.1	1663.2	1346.2	712.2
85°	183.8	188.2	189.3	192.6	189.3	230.1	366.6	459.0	464.5	420.5	253.2
87.5°	67.1	71.5	69.3	64.9	58.3	55.0	70.4	71.5	73.8	68.2	37.4
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°	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2	3727.2
2.5°	3752.5	3767.9	3808.6	3811.9	3827.3	3832.8	3846.0	3864.8	3897.8	3881.3	3862.6
5°	3795.4	3815.2	3880.2	3913.2	3956.1	3981.4	4023.3	4044.2	4094.8	4078.3	4076.1
7.5°	3860.4	3902.2	3960.5	3992.5	4048.6	4065.1	4095.9	4095.9	4137.8	4116.8	4111.3
10°	3948.4	3975.9	4037.6	4039.8	4071.7	4071.7	4108.0	4084.9	4125.6	4101.4	4100.3
12.5°	4018.9	4034.3	4057.4	4038.7	4055.2	4036.5	4055.2	4027.7	4053.0	4022.2	4015.6
15°	4098.1	4077.2	4054.1	4010.1	3995.8	3966.0	3950.6	3922.0	3924.2	3889.0	3883.5
17.5°	4187.3	4133.3	4066.2	3970.4	3917.6	3841.6	3809.7	3769.0	3745.9	3714.0	3728.3
20°	4295.2	4214.8	4075.0	3926.4	3814.1	3698.5	3623.7	3557.7	3552.1	3523.5	3508.1
22.5°	4435.0	4306.2	4113.5	3863.7	3683.1	3518.0	3406.8	3296.8	3285.8	3227.4	3205.4
25°	4607.8	4427.3	4133.3	3815.2	3530.1	3303.4	3128.4	2975.4	2901.6	2840.0	2825.6
27.5°	4840.0	4605.6	4173.0	3728.3	3349.6	3037.0	2786.0	2583.5	2495.4	2464.6	2432.7
30°	5111.9	4823.5	4246.7	3655.6	3136.1	2696.9	2390.8	2149.8	2054.0	2005.6	1990.2
32.5°	5512.6	5098.7	4315.0	3535.6	2877.4	2322.6	1924.1	1657.7	1599.4	1590.6	1611.5
35°	6096.0	5616.1	4414.0	3424.5	2573.6	1906.5	1466.2	1292.3	1280.2	1282.4	1282.4
37.5°	6703.6	6109.2	4707.9	3260.4	2201.5	1435.4	1116.2	1021.5	1025.9	1025.9	1024.8
40°	7099.9	6505.5	4921.5	3028.2	1739.2	1029.2	827.8	756.2	787.0	828.9	850.9
42.5°	7536.9	6865.4	5069.0	2760.7	1209.7	727.6	602.1	627.4	717.7	781.5	790.3
45°	7908.9	7171.4	5085.5	2344.6	779.3	552.6	549.3	621.9	726.5	795.8	801.4
47.5°	8228.2	7449.9	4982.0	1869.1	568.0	516.3	549.3	640.6	735.3	778.2	782.6
50°	8537.5	7671.2	4738.8	1436.5	517.4	503.0	555.9	643.9	703.4	733.1	728.7
52.5°	8812.7	7872.6	4386.5	1120.6	497.5	494.2	561.4	640.6	678.1	675.9	672.6
55°	9021.8	7932.1	4111.3	874.0	481.0	488.7	564.7	643.9	671.5	651.6	647.2
57.5°	9129.7	7858.3	3880.2	694.6	463.4	483.2	573.5	642.8	691.3	728.7	726.5
60°	9127.5	7774.7	3595.1	598.8	445.8	478.8	587.8	697.9	872.9	908.1	909.2
62.5°	9092.3	7631.6	3204.3	541.6	426.0	481.0	597.7	792.5	994.0	965.4	942.2
65°	8975.6	7363.0	2680.3	479.9	400.7	483.2	593.3	857.5	911.4	809.1	794.7
67.5°	8650.9	6843.4	2104.7	429.3	377.6	471.1	601.0	796.9	837.7	772.7	751.8
70°	7991.5	6111.4	1426.6	369.9	351.1	453.5	583.4	783.7	826.7	760.6	729.8
72.5°	6946.9	4905.0	834.4	318.1	312.6	417.2	574.6	792.5	839.9	766.1	726.5
75°	5406.9	3438.8	482.1	257.6	260.9	385.3	527.3	747.4	832.2	774.9	723.2
77.5°	3490.5	1669.9	340.1	205.8	203.6	303.8	428.2	653.9	801.4	782.6	739.7
80°	1249.4	609.8	238.9	153.0	148.6	205.8	329.1	526.2	678.1	702.3	702.3
82.5°	449.1	306.0	153.0	93.6	92.5	131.0	245.5	399.6	492.0	554.8	570.2
85°	188.2	133.2	74.9	47.3	38.5	50.6	126.6	247.7	333.5	358.8	390.8
87.5°	27.5	24.2	19.8	15.4	13.2	13.2	16.5	71.5	118.9	170.6	211.3
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)