

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: P509951

Luminaire Tested: **VERD-M-CA3-170-750-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509951  
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-CA3-170-750-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1060mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24935 lumens  
Efficiency: N/A  
Efficacy: 144.3 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

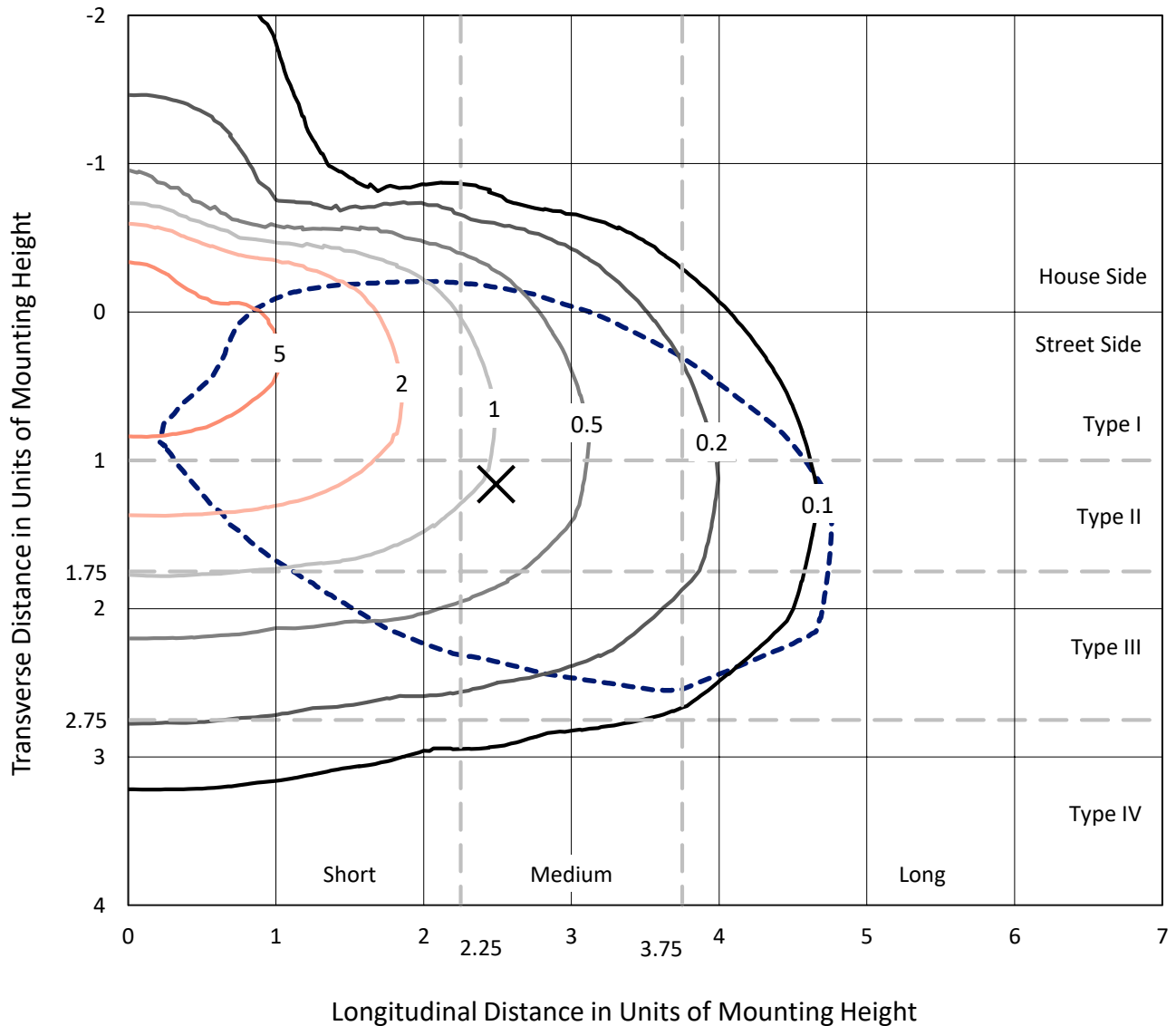
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

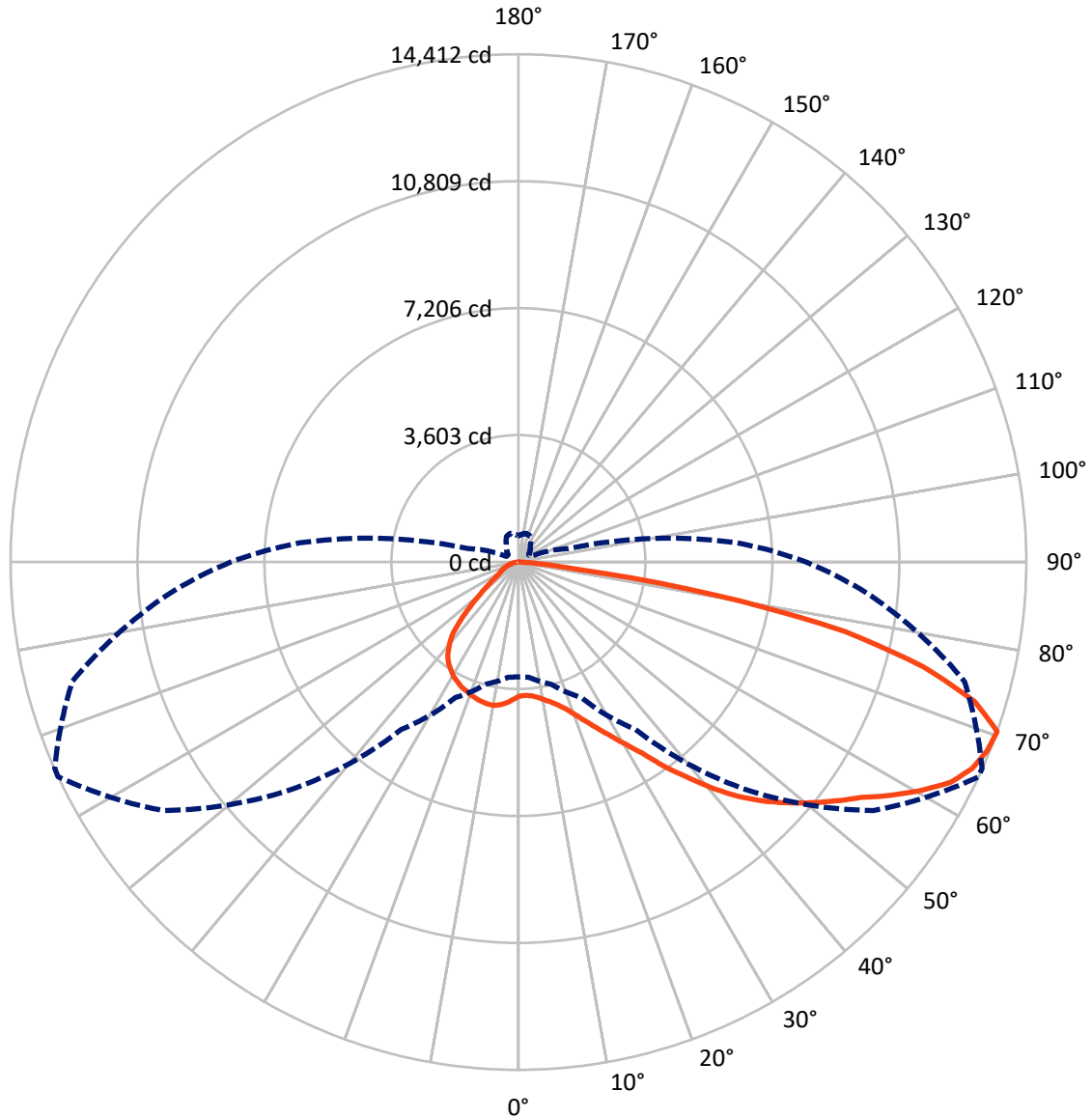
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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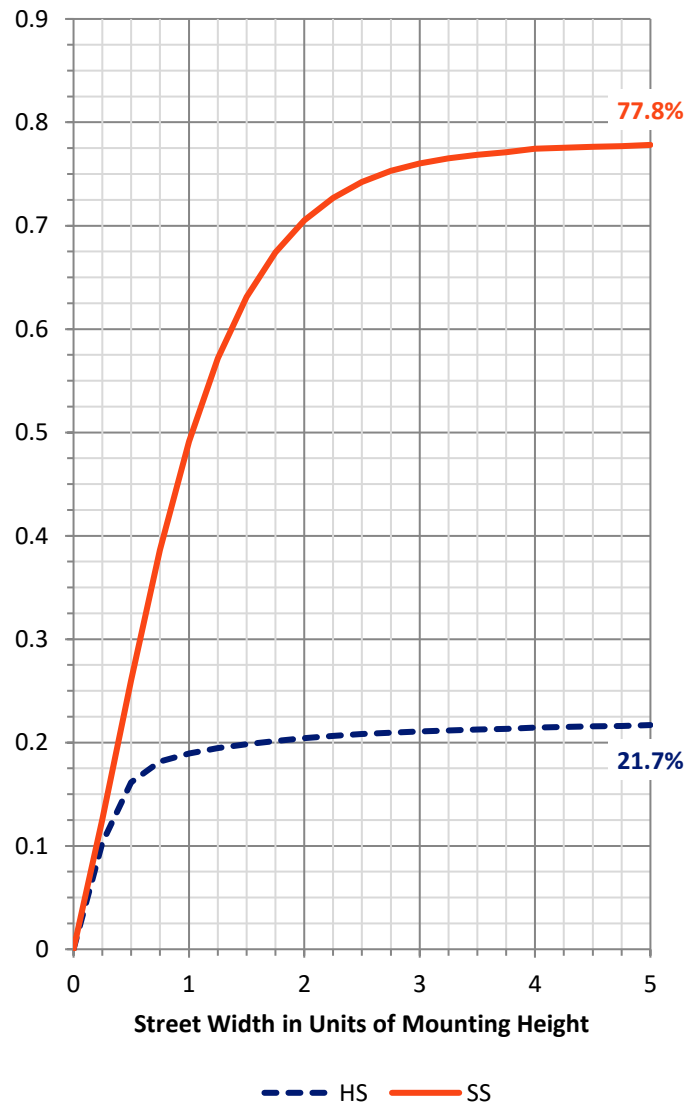
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5500.4	0.0	5500.4
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	19434.6	0.0	19434.6
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	24935.0	0.0	24935.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.9	1.5
10°-20°	1207.0	4.8
20°-30°	2093.9	8.4
30°-40°	3044.5	12.2
40°-50°	4067.5	16.3
50°-60°	4954.5	19.9
60°-70°	5341.1	21.4
70°-80°	3462.8	13.9
80°-90°	381.9	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°	24935.0	100.0
0°-180°	24935.0	100.0



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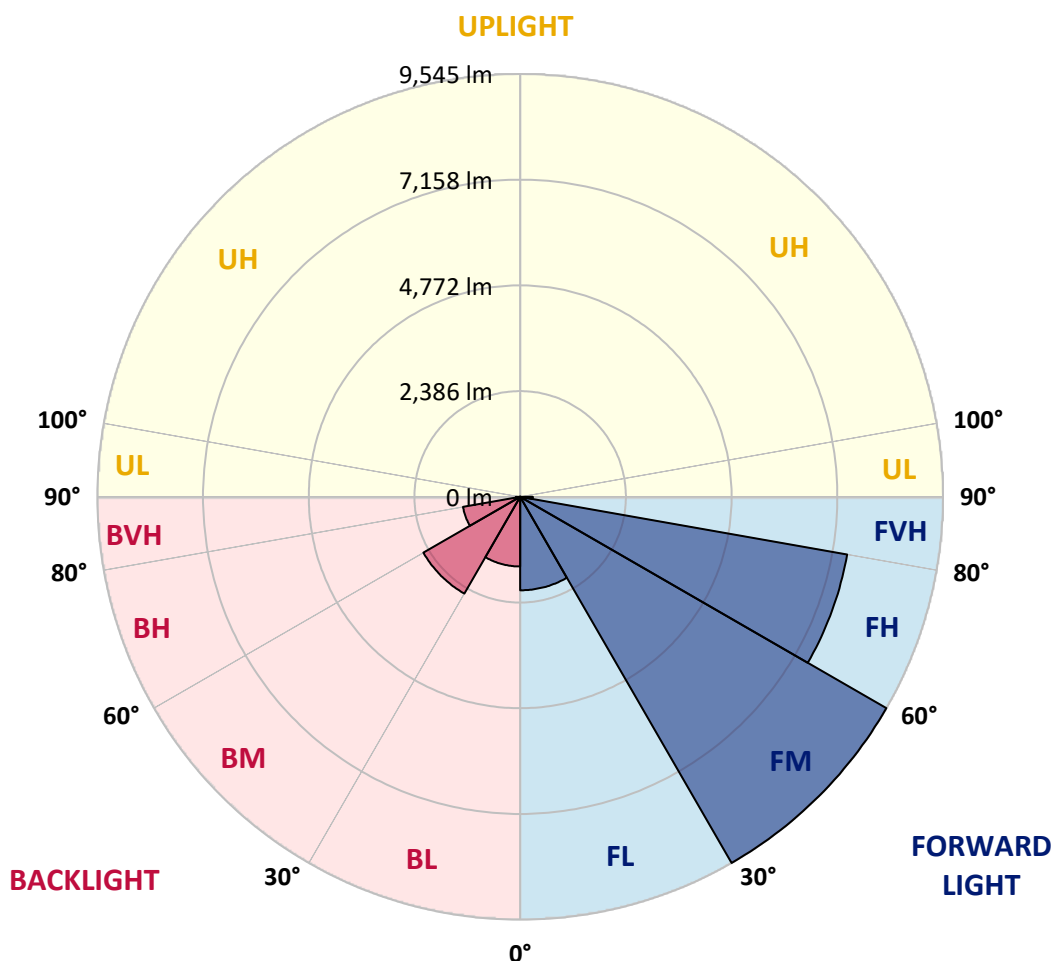
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2110.2	8.5			
FM (30°-60°)	9544.7	38.3			
FH (60°-80°)	7494.9	30.1			G3/7500
FVH (80°-90°)	284.9	1.1			G3/500
BL (0°-30°)	1572.6	6.3	B3/2500		
BM (30°-60°)	2521.8	10.1	B3/5000		
BH (60°-80°)	1309.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	97.1	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°	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9
2.5°	3750.6	3784.4	3766.4	3767.5	3793.4	3772.0	3786.6	3786.6	3785.5	3793.4	3817.0
5°	3842.8	3878.8	3857.5	3844.0	3849.6	3822.6	3817.0	3812.5	3809.1	3818.1	3857.5
7.5°	3977.8	4019.4	3995.7	3983.4	3976.6	3914.8	3903.6	3873.2	3869.8	3877.7	3913.7
10°	4156.5	4212.7	4184.6	4149.8	4126.2	4054.2	3996.9	3969.9	3962.0	3957.5	3994.6
12.5°	4414.0	4463.5	4430.8	4365.6	4334.2	4218.4	4149.8	4073.3	4072.2	4056.5	4084.6
15°	4658.0	4709.7	4668.1	4604.0	4562.4	4406.1	4304.9	4210.5	4199.2	4181.3	4190.2
17.5°	4894.1	4957.0	4927.8	4869.3	4818.7	4644.5	4511.8	4390.4	4378.0	4349.9	4308.3
20°	5187.5	5244.8	5237.0	5184.1	5127.9	4930.0	4785.0	4628.7	4615.2	4564.6	4471.3
22.5°	5480.9	5551.8	5507.9	5498.9	5467.4	5270.7	5068.3	4909.8	4896.3	4830.0	4659.1
25°	5757.5	5820.5	5836.2	5821.6	5825.0	5630.5	5429.2	5230.2	5216.7	5126.8	4879.4
27.5°	6084.7	6144.3	6148.8	6152.1	6191.5	6029.6	5793.5	5588.9	5579.9	5478.7	5165.0
30°	6335.4	6434.3	6454.6	6473.7	6493.9	6407.4	6192.6	6001.5	5983.5	5873.3	5486.6
32.5°	6564.8	6639.0	6710.9	6750.3	6841.3	6763.8	6587.2	6469.2	6470.3	6418.6	5999.2
35°	6742.4	6824.5	6915.5	7059.4	7192.1	7159.5	7104.4	7111.2	7112.3	7134.8	6690.7
37.5°	6912.2	6986.4	7101.0	7273.1	7506.9	7549.6	7586.7	7727.3	7776.7	7882.4	7329.3
40°	7014.5	7093.2	7241.6	7479.9	7783.5	7937.5	8050.0	8410.9	8496.3	8497.4	7822.8
42.5°	6864.9	6951.5	7216.8	7640.7	8033.1	8320.9	8616.6	9071.9	9133.8	8995.5	8244.5
45°	6731.2	6811.0	7096.5	7665.4	8228.7	8730.1	9141.6	9668.9	9713.9	9435.1	8633.5
47.5°	6601.9	6664.8	6995.4	7613.7	8428.8	9140.5	9589.1	10208.6	10241.2	9916.3	9013.5
50°	6423.1	6498.4	6849.2	7553.0	8549.1	9492.4	10027.6	10741.5	10737.0	10349.1	9357.5
52.5°	6227.5	6301.7	6678.3	7441.7	8627.8	9765.6	10526.8	11263.2	11266.6	10846.1	9698.2
55°	5981.2	6072.3	6469.2	7291.1	8647.0	9980.4	10959.6	11798.4	11853.4	11353.1	10026.5
57.5°	5686.7	5777.8	6211.7	7070.7	8533.4	10160.3	11421.7	12481.9	12511.2	11871.4	10271.6
60°	5343.8	5454.0	5868.8	6776.1	8316.4	10369.4	11981.6	13152.0	13162.1	12334.6	10476.2
62.5°	4946.9	5025.6	5461.8	6348.9	7970.1	10452.6	12444.8	13767.0	13769.2	12684.3	10568.4
65°	4517.4	4547.8	4913.2	5767.6	7465.3	10316.5	12622.5	14141.4	14131.3	12991.2	10522.3
67.5°	4005.9	3991.2	4381.4	5049.2	6826.7	9863.4	12535.9	14333.6	14364.0	13227.3	10373.9
70°	3257.1	3278.4	3588.7	4245.3	5795.7	9136.0	12297.5	14412.3	14404.5	13109.3	9896.0
72.5°	2472.3	2510.6	2735.4	3227.9	4498.3	7683.4	11276.7	13542.1	13557.9	12277.3	9036.0
75°	1529.0	1639.2	1829.2	2129.4	2818.6	5504.5	9598.1	11862.4	11942.3	10832.6	7440.6
77.5°	670.1	695.9	791.5	1026.5	1474.0	2763.5	7095.4	9473.3	9709.4	8760.5	5367.4
80°	414.9	414.9	441.8	514.9	657.7	1027.6	2843.3	5656.3	5416.9	5011.0	2367.8
82.5°	345.2	345.2	358.7	371.0	337.3	435.1	951.2	1585.3	1698.8	1375.0	727.4
85°	187.8	192.3	193.4	196.8	193.4	235.0	374.4	468.8	474.5	429.5	258.6
87.5°	68.6	73.1	70.8	66.3	59.6	56.2	72.0	73.1	75.3	69.7	38.2
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°	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9	3806.9
2.5°	3832.7	3848.5	3890.1	3893.4	3909.2	3914.8	3928.3	3947.4	3981.1	3964.3	3945.2
5°	3876.6	3896.8	3963.1	3996.9	4040.7	4066.6	4109.3	4130.7	4182.4	4165.5	4163.3
7.5°	3942.9	3985.6	4045.2	4077.8	4135.2	4152.0	4183.5	4183.5	4226.2	4204.9	4199.2
10°	4032.8	4061.0	4123.9	4126.2	4158.8	4158.8	4195.9	4172.3	4213.9	4189.1	4188.0
12.5°	4104.8	4120.5	4144.2	4125.0	4141.9	4122.8	4141.9	4113.8	4139.7	4108.2	4101.4
15°	4185.7	4164.4	4140.8	4095.8	4081.2	4050.8	4035.1	4005.9	4008.1	3972.1	3966.5
17.5°	4276.8	4221.7	4153.1	4055.3	4001.4	3923.8	3891.2	3849.6	3826.0	3793.4	3808.0
20°	4387.0	4304.9	4162.1	4010.4	3895.7	3777.6	3701.2	3633.7	3628.1	3598.9	3583.1
22.5°	4529.8	4398.2	4201.5	3946.3	3761.9	3593.2	3479.7	3367.3	3356.0	3296.4	3273.9
25°	4706.3	4521.9	4221.7	3896.8	3605.6	3374.0	3195.2	3039.0	2963.6	2900.7	2886.1
27.5°	4943.5	4704.0	4262.2	3808.0	3421.2	3101.9	2845.6	2638.7	2548.8	2517.3	2484.7
30°	5221.2	4926.7	4337.5	3733.8	3203.1	2754.5	2442.0	2195.7	2097.9	2048.5	2032.7
32.5°	5630.5	5207.7	4407.2	3611.2	2938.9	2372.3	1965.3	1693.2	1633.6	1624.6	1646.0
35°	6226.3	5736.2	4508.4	3497.7	2628.6	1947.3	1497.6	1319.9	1307.6	1309.8	1309.8
37.5°	6847.0	6239.8	4808.6	3330.2	2248.6	1466.1	1140.0	1043.3	1047.8	1047.8	1046.7
40°	7251.7	6644.6	5026.7	3092.9	1776.4	1051.2	845.5	772.4	803.9	846.6	869.1
42.5°	7698.0	7012.2	5177.4	2819.7	1235.6	743.2	615.0	640.8	733.0	798.2	807.2
45°	8078.1	7324.8	5194.2	2394.7	796.0	564.4	561.0	635.2	742.0	812.9	818.5
47.5°	8404.1	7609.2	5088.6	1909.1	580.1	527.3	561.0	654.3	751.0	794.9	799.4
50°	8720.0	7835.2	4840.1	1467.2	528.4	513.8	567.8	657.7	718.4	748.8	744.3
52.5°	9001.1	8041.0	4480.3	1144.5	508.2	504.8	573.4	654.3	692.6	690.3	686.9
55°	9214.7	8101.7	4199.2	892.7	491.3	499.2	576.8	657.7	685.8	665.6	661.1
57.5°	9324.9	8026.3	3963.1	709.4	473.3	493.6	585.8	656.6	706.1	744.3	742.0
60°	9322.7	7940.9	3671.9	611.6	455.3	489.1	600.4	712.8	891.6	927.5	928.7
62.5°	9286.7	7794.7	3272.8	553.2	435.1	491.3	610.5	809.5	1015.2	986.0	962.4
65°	9167.5	7520.4	2737.7	490.2	409.2	493.6	606.0	875.8	930.9	826.4	811.7
67.5°	8835.8	6989.7	2149.7	438.5	385.6	481.2	613.9	814.0	855.6	789.3	767.9
70°	8162.4	6242.1	1457.1	377.8	358.7	463.2	595.9	800.5	844.3	776.9	745.4
72.5°	7095.4	5009.9	852.2	324.9	319.3	426.1	586.9	809.5	857.8	782.5	742.0
75°	5522.5	3512.3	492.4	263.1	266.5	393.5	538.5	763.4	850.0	791.5	738.7
77.5°	3565.1	1705.6	347.4	210.2	208.0	310.3	437.4	667.8	818.5	799.4	755.5
80°	1276.1	622.9	244.0	156.3	151.8	210.2	336.2	537.4	692.6	717.3	717.3
82.5°	458.7	312.6	156.3	95.6	94.4	133.8	250.7	408.1	502.6	566.6	582.4
85°	192.3	136.0	76.5	48.3	39.4	51.7	129.3	253.0	340.7	366.5	399.1
87.5°	28.1	24.7	20.2	15.7	13.5	13.5	16.9	73.1	121.4	174.3	215.9
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)