

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: P510303

Luminaire Tested: **VERD-M-CA4-250-722-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510303
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-CA4-250-722-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1130mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28231 lumens
Efficiency: N/A
Efficacy: 112.2 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

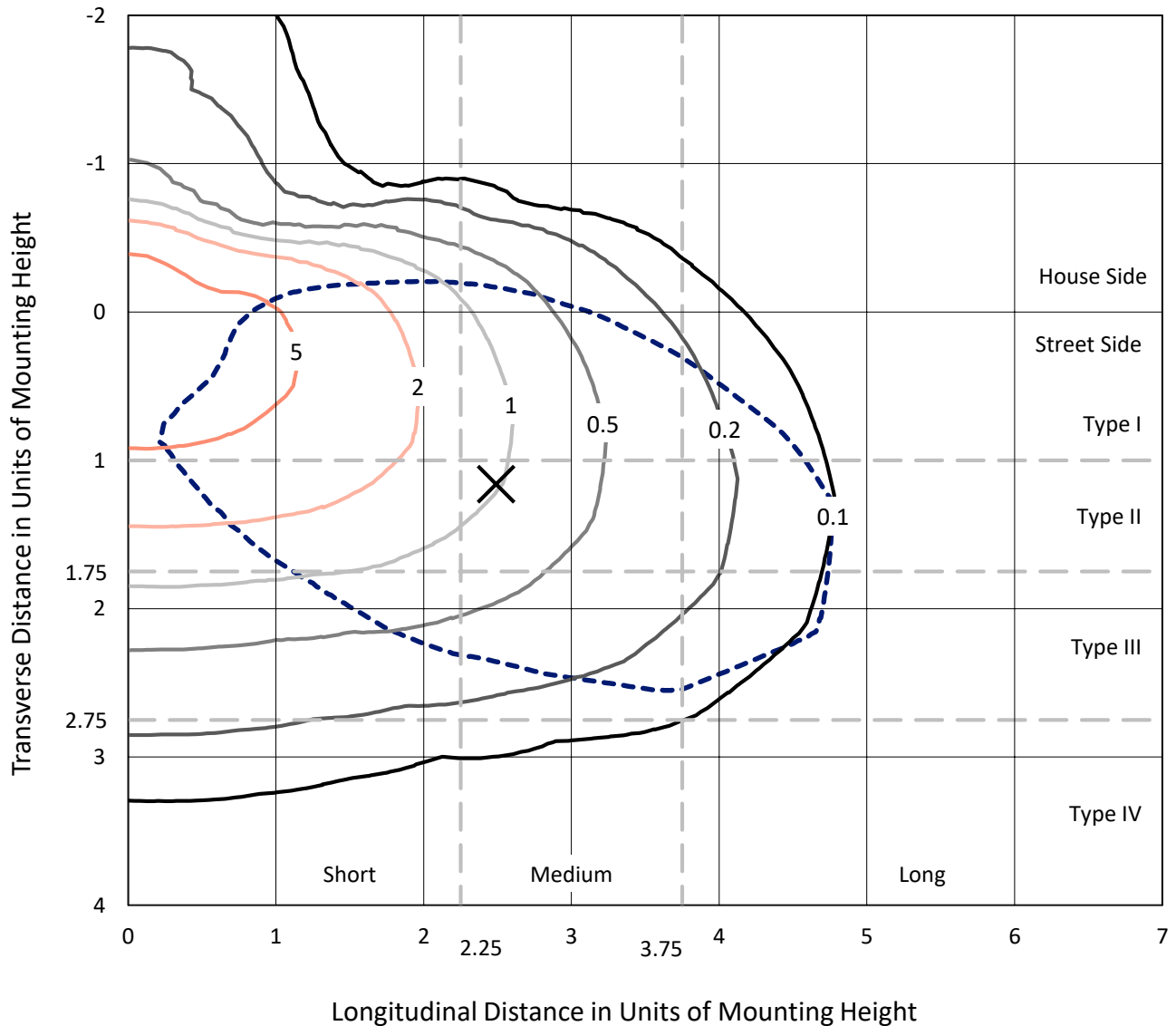
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

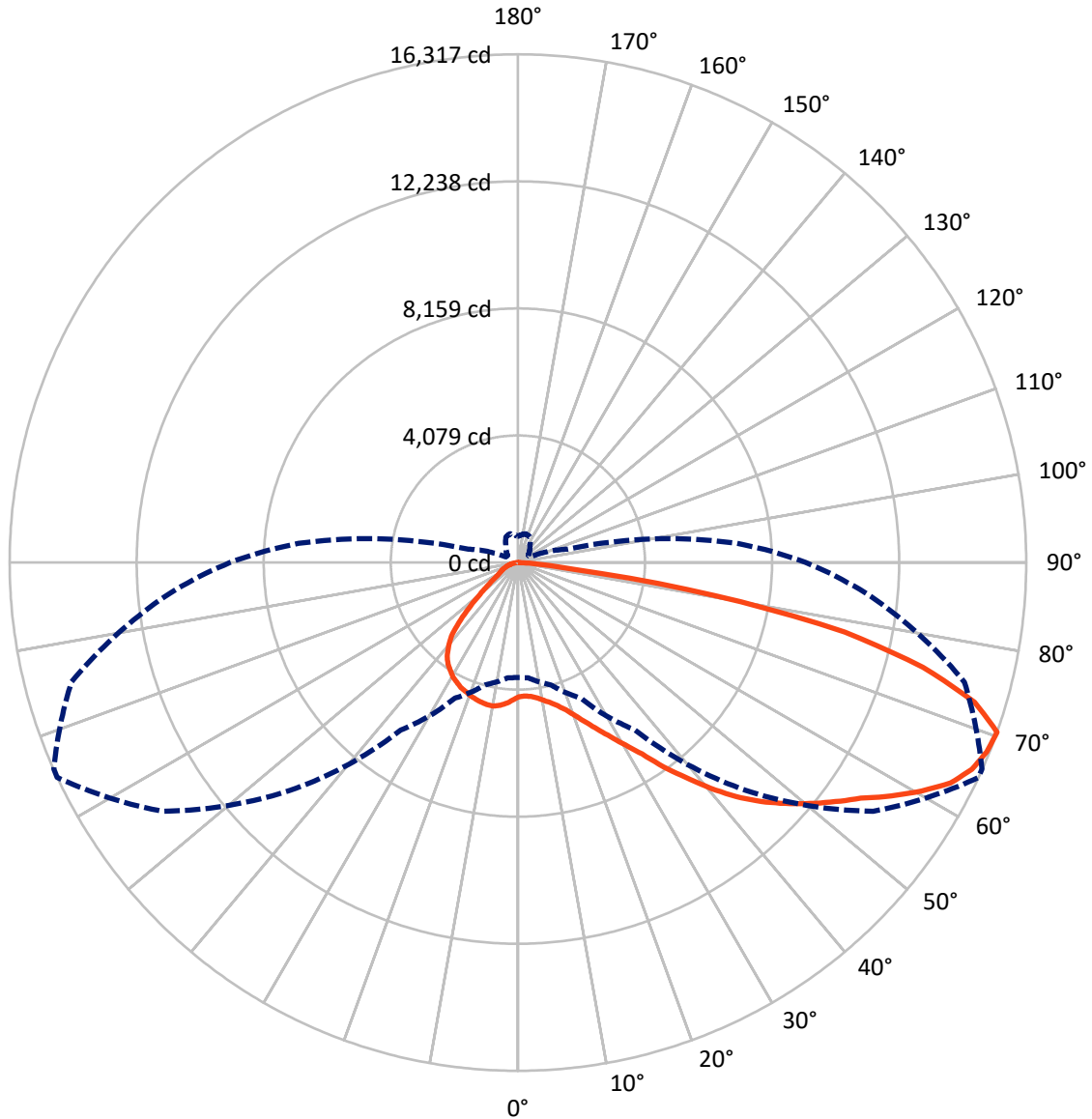
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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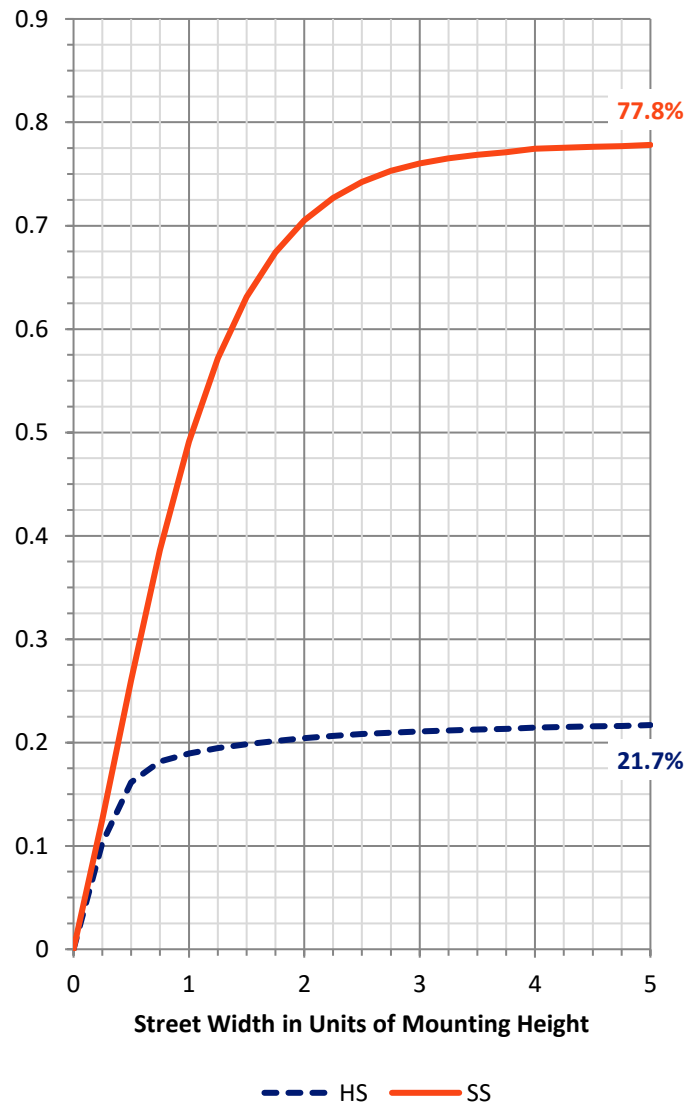
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6227.5	0.0	6227.5
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22003.5	0.0	22003.5
	% Fixture	77.9	0.0	77.9
Total	Lumens	28231.0	0.0	28231.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.4	1.5
10°-20°	1366.5	4.8
20°-30°	2370.7	8.4
30°-40°	3446.9	12.2
40°-50°	4605.1	16.3
50°-60°	5609.4	19.9
60°-70°	6047.1	21.4
70°-80°	3920.5	13.9
80°-90°	432.4	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°	28231.0	100.0
0°-180°	28231.0	100.0



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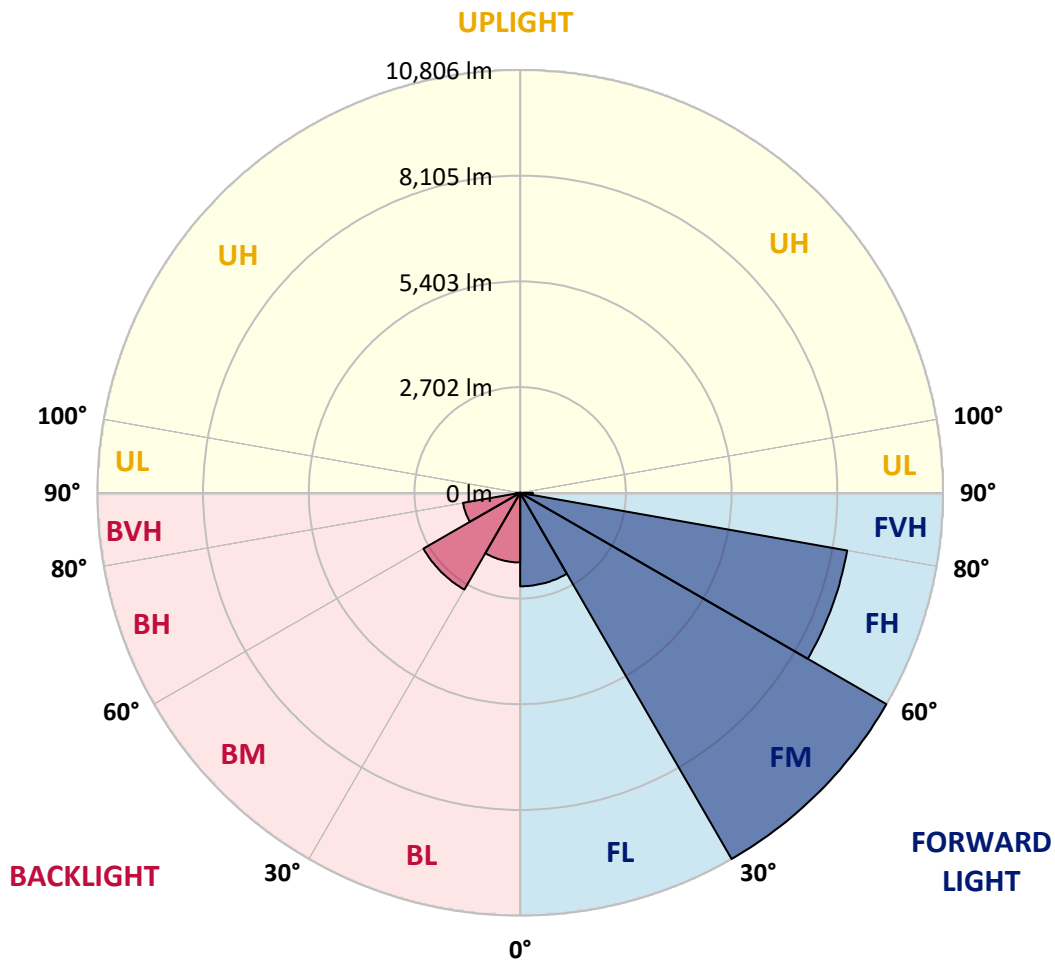
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2389.1	8.5			
FM	(30°-60°)	10806.3	38.3			
FH	(60°-80°)	8485.6	30.1			G4/12000
FVH	(80°-90°)	322.5	1.1			G3/500
BL	(0°-30°)	1780.4	6.3	B3/2500		
BM	(30°-60°)	2855.1	10.1	B3/5000		
BH	(60°-80°)	1482.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	109.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1
2.5°	4246.4	4284.6	4264.2	4265.5	4294.8	4270.6	4287.2	4287.2	4285.9	4294.8	4321.5
5°	4350.8	4391.5	4367.3	4352.1	4358.4	4327.9	4321.5	4316.4	4312.6	4322.8	4367.3
7.5°	4503.5	4550.6	4523.9	4509.9	4502.3	4432.3	4419.5	4385.2	4381.4	4390.3	4431.0
10°	4705.9	4769.6	4737.8	4698.3	4671.6	4590.1	4525.2	4494.6	4485.7	4480.6	4522.6
12.5°	4997.4	5053.4	5016.5	4942.7	4907.1	4776.0	4698.3	4611.7	4610.5	4592.7	4624.5
15°	5273.7	5332.2	5285.1	5212.6	5165.5	4988.5	4874.0	4767.0	4754.3	4733.9	4744.1
17.5°	5541.0	5612.3	5579.2	5513.0	5455.7	5258.4	5108.2	4970.7	4956.7	4924.9	4877.8
20°	5873.2	5938.1	5929.2	5869.4	5805.7	5581.7	5417.5	5240.6	5225.3	5168.0	5062.4
22.5°	6205.4	6285.6	6236.0	6225.8	6190.2	5967.4	5738.3	5558.8	5543.5	5468.4	5274.9
25°	6518.6	6589.8	6607.7	6591.1	6594.9	6374.7	6146.9	5921.6	5906.3	5804.5	5524.4
27.5°	6889.0	6956.4	6961.5	6965.4	7009.9	6826.6	6559.3	6327.6	6317.4	6202.9	5847.7
30°	7172.8	7284.9	7307.8	7329.4	7352.3	7254.3	7011.2	6794.8	6774.4	6649.7	6211.8
32.5°	7432.5	7516.5	7598.0	7642.5	7745.6	7657.8	7458.0	7324.3	7325.6	7267.0	6792.2
35°	7633.6	7726.6	7829.7	7992.6	8142.8	8105.9	8043.5	8051.1	8052.4	8077.9	7575.1
37.5°	7825.8	7909.9	8039.7	8234.4	8499.2	8547.6	8589.6	8748.7	8804.7	8924.4	8298.1
40°	7941.7	8030.8	8198.8	8468.7	8812.3	8986.7	9114.0	9522.6	9619.4	9620.6	8856.9
42.5°	7772.4	7870.4	8170.8	8650.7	9094.9	9420.8	9755.6	10271.1	10341.1	10184.5	9334.2
45°	7620.9	7711.3	8034.6	8678.7	9316.4	9884.1	10350.0	10947.0	10997.9	10682.2	9774.7
47.5°	7474.5	7545.8	7920.0	8620.1	9543.0	10348.7	10856.6	11558.0	11594.9	11227.1	10204.9
50°	7272.1	7357.4	7754.6	8551.4	9679.2	10747.2	11353.1	12161.4	12156.3	11717.1	10594.4
52.5°	7050.6	7134.7	7561.1	8425.4	9768.3	11056.5	11918.2	12752.0	12755.8	12279.7	10980.1
55°	6771.9	6875.0	7324.3	8254.8	9789.9	11299.6	12408.3	13357.9	13420.3	12853.8	11351.8
57.5°	6438.4	6541.5	7032.8	8005.3	9661.4	11503.3	12931.5	14131.8	14164.9	13440.6	11629.3
60°	6050.1	6174.9	6644.6	7671.8	9415.7	11740.0	13565.4	14890.5	14901.9	13965.1	11861.0
62.5°	5600.8	5689.9	6183.8	7188.1	9023.6	11834.2	14089.8	15586.8	15589.3	14361.0	11965.3
65°	5114.5	5148.9	5562.6	6530.0	8452.1	11680.2	14290.9	16010.6	15999.2	14708.5	11913.1
67.5°	4535.4	4518.8	4960.5	5716.6	7729.1	11167.2	14192.9	16228.3	16262.7	14975.8	11745.1
70°	3687.6	3711.8	4063.1	4806.5	6561.8	10343.7	13923.1	16317.4	16308.5	14842.1	11204.1
72.5°	2799.1	2842.4	3097.0	3654.5	5092.9	8699.1	12767.3	15332.2	15350.0	13900.2	10230.4
75°	1731.2	1855.9	2071.0	2410.9	3191.2	6232.2	10866.8	13430.5	13520.8	12264.5	8424.1
77.5°	758.7	787.9	896.1	1162.2	1668.8	3128.8	8033.3	10725.5	10992.8	9918.5	6076.9
80°	469.7	469.7	500.3	583.0	744.7	1163.4	3219.2	6404.0	6132.9	5673.4	2680.7
82.5°	390.8	390.8	406.1	420.1	381.9	492.6	1076.9	1794.8	1923.4	1556.8	823.6
85°	212.6	217.7	218.9	222.8	218.9	266.0	423.9	530.8	537.2	486.3	292.8
87.5°	77.6	82.7	80.2	75.1	67.5	63.6	81.5	82.7	85.3	78.9	43.3
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°	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1	4310.1
2.5°	4339.3	4357.2	4404.3	4408.1	4425.9	4432.3	4447.5	4469.2	4507.4	4488.3	4466.6
5°	4389.0	4411.9	4487.0	4525.2	4574.8	4604.1	4652.5	4676.7	4735.2	4716.1	4713.6
7.5°	4464.1	4512.5	4579.9	4616.8	4681.8	4700.9	4736.5	4736.5	4784.9	4760.7	4754.3
10°	4565.9	4597.7	4669.0	4671.6	4708.5	4708.5	4750.5	4723.8	4770.9	4742.9	4741.6
12.5°	4647.4	4665.2	4691.9	4670.3	4689.4	4667.8	4689.4	4657.6	4686.8	4651.2	4643.6
15°	4739.0	4714.9	4688.1	4637.2	4620.7	4586.3	4568.5	4535.4	4537.9	4497.2	4490.8
17.5°	4842.1	4779.8	4702.1	4591.4	4530.3	4442.5	4405.5	4358.4	4331.7	4294.8	4311.3
20°	4966.9	4874.0	4712.3	4540.5	4410.6	4277.0	4190.4	4114.0	4107.7	4074.6	4056.8
22.5°	5128.5	4979.6	4756.9	4467.9	4259.2	4068.2	3939.7	3812.4	3799.6	3732.2	3706.7
25°	5328.4	5119.6	4779.8	4411.9	4082.2	3820.0	3617.6	3440.7	3355.4	3284.1	3267.6
27.5°	5597.0	5325.8	4825.6	4311.3	3873.5	3512.0	3221.7	2987.5	2885.7	2850.0	2813.1
30°	5911.4	5577.9	4910.9	4227.3	3626.5	3118.6	2764.8	2486.0	2375.2	2319.2	2301.4
32.5°	6374.7	5896.1	4989.8	4088.6	3327.4	2685.8	2225.0	1917.0	1849.5	1839.4	1863.5
35°	7049.4	6494.4	5104.4	3960.0	2976.1	2204.7	1695.5	1494.4	1480.4	1482.9	1482.9
37.5°	7752.0	7064.6	5444.2	3770.4	2545.8	1659.9	1290.7	1181.3	1186.4	1186.4	1185.1
40°	8210.3	7522.9	5691.2	3501.8	2011.2	1190.2	957.2	874.5	910.1	958.5	984.0
42.5°	8715.6	7939.1	5861.7	3192.5	1398.9	841.4	696.3	725.6	829.9	903.8	913.9
45°	9145.8	8293.0	5880.8	2711.3	901.2	639.0	635.2	719.2	840.1	920.3	926.7
47.5°	9515.0	8615.0	5761.2	2161.4	656.8	597.0	635.2	740.8	850.3	899.9	905.0
50°	9872.7	8870.9	5479.9	1661.1	598.3	581.7	642.8	744.7	813.4	847.8	842.7
52.5°	10190.9	9103.8	5072.5	1295.8	575.4	571.5	649.2	740.8	784.1	781.6	777.7
55°	10432.8	9172.6	4754.3	1010.7	556.3	565.2	653.0	744.7	776.5	753.6	748.5
57.5°	10557.5	9087.3	4487.0	803.2	535.9	558.8	663.2	743.4	799.4	842.7	840.1
60°	10555.0	8990.6	4157.3	692.5	515.5	553.7	679.7	807.0	1009.4	1050.1	1051.4
62.5°	10514.2	8825.1	3705.4	626.3	492.6	556.3	691.2	916.5	1149.4	1116.3	1089.6
65°	10379.3	8514.5	3099.5	555.0	463.3	558.8	686.1	991.6	1054.0	935.6	919.0
67.5°	10003.8	7913.7	2433.8	496.4	436.6	544.8	695.0	921.6	968.7	893.6	869.4
70°	9241.3	7067.2	1649.7	427.7	406.1	524.4	674.6	906.3	956.0	879.6	843.9
72.5°	8033.3	5672.1	964.9	367.9	361.5	482.4	664.5	916.5	971.2	885.9	840.1
75°	6252.5	3976.6	557.5	297.9	301.7	445.5	609.7	864.3	962.3	896.1	836.3
77.5°	4036.4	1931.0	393.3	238.0	235.5	351.3	495.2	756.1	926.7	905.0	855.4
80°	1444.8	705.2	276.2	176.9	171.8	238.0	380.6	608.5	784.1	812.1	812.1
82.5°	519.3	353.9	176.9	108.2	106.9	151.5	283.9	462.1	569.0	641.5	659.4
85°	217.7	154.0	86.6	54.7	44.6	58.6	146.4	286.4	385.7	415.0	451.9
87.5°	31.8	28.0	22.9	17.8	15.3	15.3	19.1	82.7	137.5	197.3	244.4
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)