

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: P510007

Luminaire Tested: **VERD-M-CA3-180-760-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510007  
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-CA3-180-760-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1120mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25488 lumens  
Efficiency: N/A  
Efficacy: 139.2 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

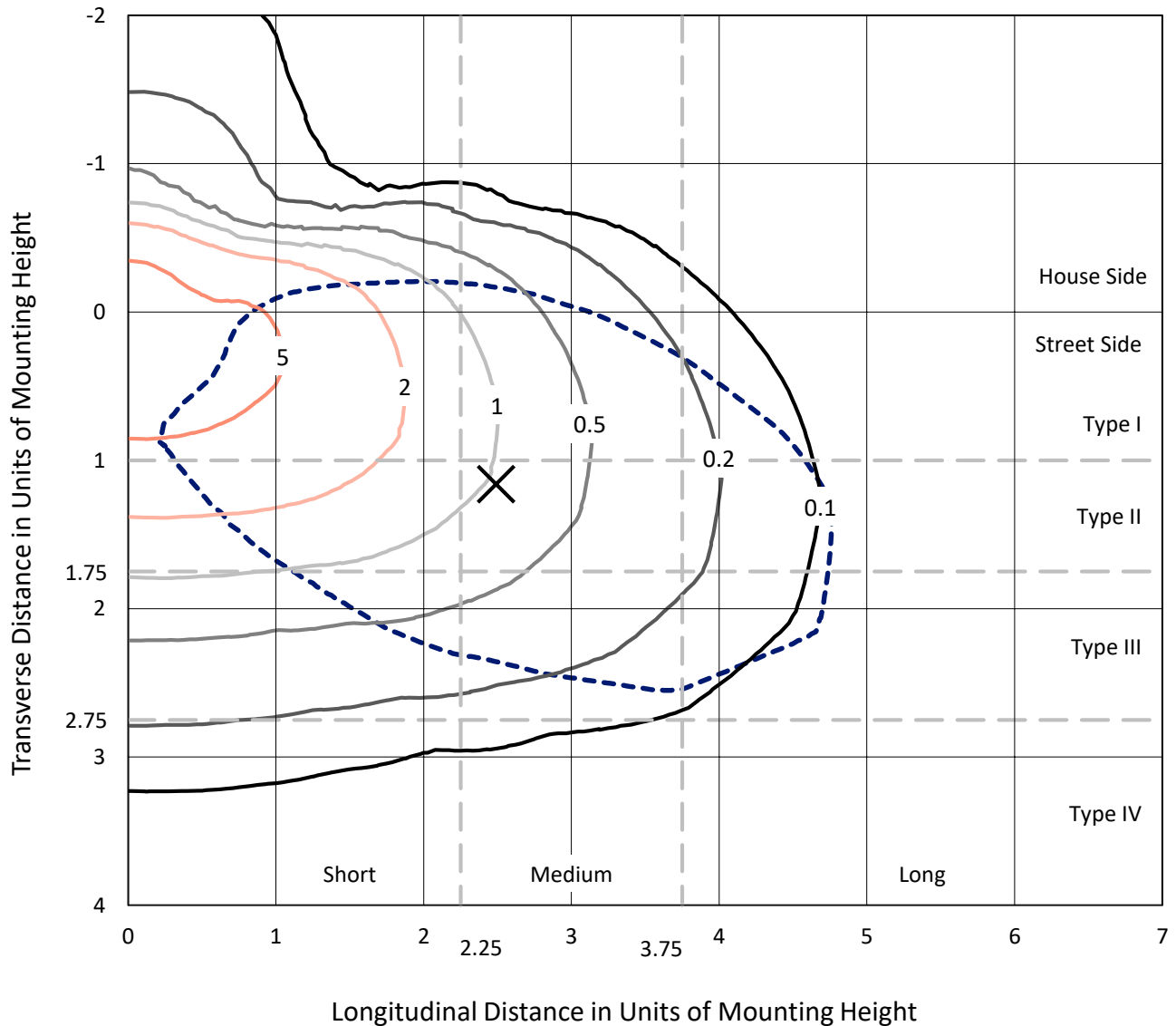


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### Iso-Footcandle Lines of Horizontal Illumination

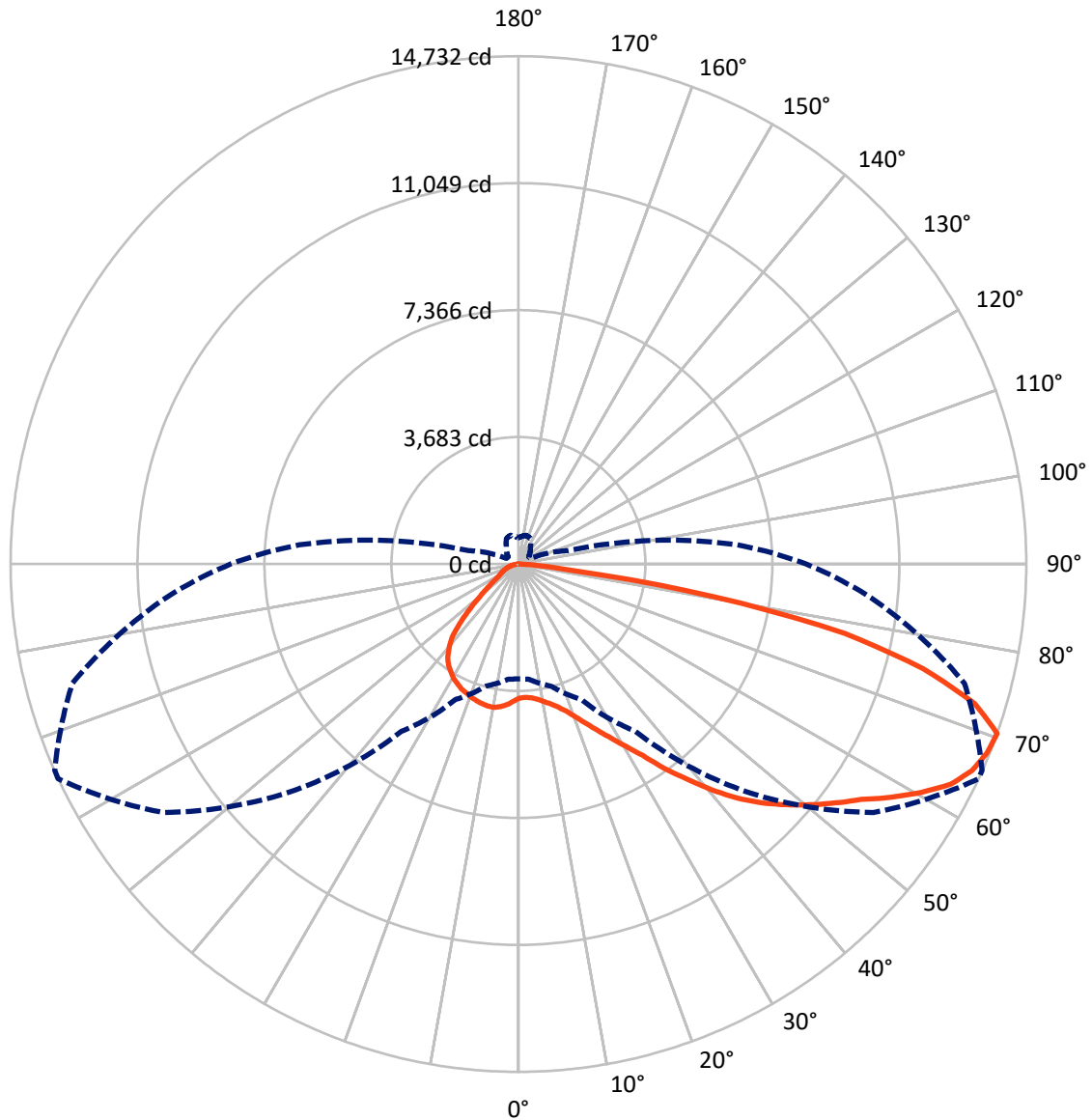
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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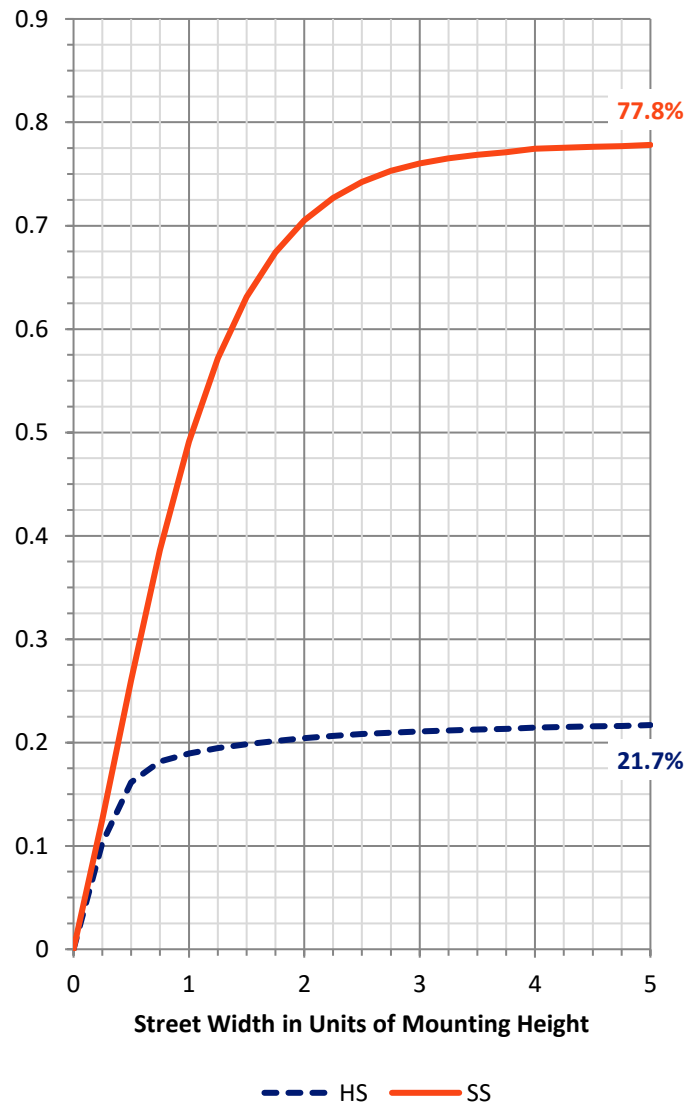
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5622.4	0.0	5622.4
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	19865.6	0.0	19865.6
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	25488.0	0.0	25488.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.4	1.5
10°-20°	1233.8	4.8
20°-30°	2140.3	8.4
30°-40°	3112.0	12.2
40°-50°	4157.7	16.3
50°-60°	5064.4	19.9
60°-70°	5459.5	21.4
70°-80°	3539.6	13.9
80°-90°	390.4	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°	25488.0	100.0
0°-180°	25488.0	100.0



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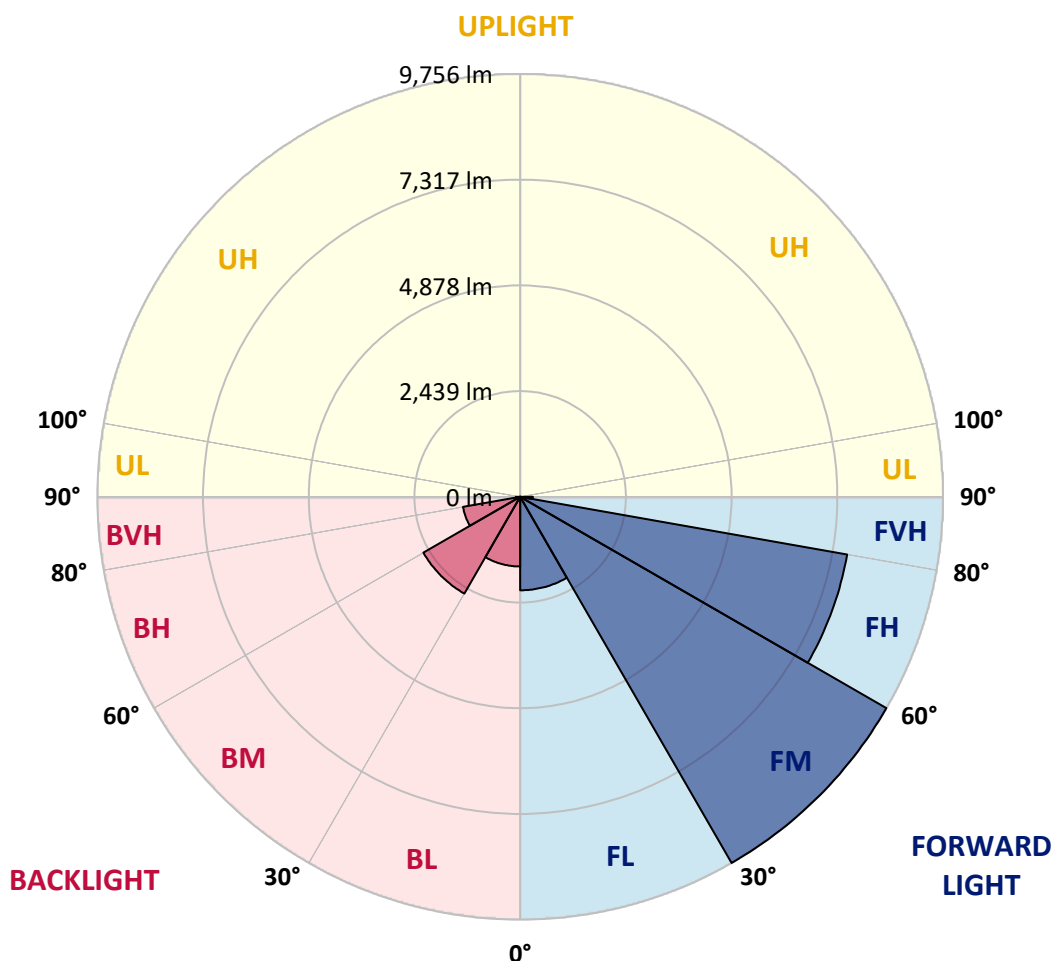
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2157.0	8.5			
FM (30°-60°)	9756.3	38.3			
FH (60°-80°)	7661.1	30.1			G4/12000
FVH (80°-90°)	291.2	1.1			G3/500
BL (0°-30°)	1607.4	6.3	B3/2500		
BM (30°-60°)	2577.7	10.1	B3/5000		
BH (60°-80°)	1338.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	99.2	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3
2.5°	3833.8	3868.3	3849.9	3851.1	3877.5	3855.7	3870.6	3870.6	3869.5	3877.5	3901.6
5°	3928.1	3964.8	3943.0	3929.2	3935.0	3907.4	3901.6	3897.0	3893.6	3902.8	3943.0
7.5°	4066.0	4108.5	4084.4	4071.7	4064.8	4001.6	3990.1	3959.1	3955.6	3963.7	4000.5
10°	4248.7	4306.2	4277.4	4241.8	4217.7	4144.1	4085.5	4057.9	4049.9	4045.3	4083.2
12.5°	4511.9	4562.4	4529.1	4462.5	4430.3	4311.9	4241.8	4163.7	4162.5	4146.4	4175.1
15°	4761.3	4814.1	4771.6	4706.1	4663.6	4503.8	4400.4	4303.9	4292.4	4274.0	4283.2
17.5°	5002.6	5067.0	5037.1	4977.3	4925.6	4747.5	4611.9	4487.7	4475.1	4446.4	4403.8
20°	5302.5	5361.2	5353.1	5299.1	5241.6	5039.4	4891.1	4731.4	4717.6	4665.9	4570.5
22.5°	5602.5	5674.9	5630.1	5620.9	5588.7	5387.6	5180.7	5018.7	5004.9	4937.1	4762.4
25°	5885.2	5949.6	5965.6	5950.7	5954.2	5755.3	5549.6	5346.2	5332.4	5240.5	4987.7
27.5°	6219.6	6280.5	6285.1	6288.6	6328.8	6163.3	5922.0	5712.8	5703.6	5600.2	5279.6
30°	6475.9	6577.0	6597.7	6617.3	6637.9	6549.5	6330.0	6134.6	6116.2	6003.6	5608.2
32.5°	6710.3	6786.2	6859.7	6900.0	6993.1	6913.8	6733.3	6612.7	6613.8	6560.9	6132.3
35°	6891.9	6975.8	7068.9	7216.0	7351.6	7318.3	7262.0	7268.9	7270.0	7293.0	6839.1
37.5°	7065.5	7141.3	7258.5	7434.4	7673.4	7717.1	7755.0	7898.7	7949.2	8057.2	7491.8
40°	7170.0	7250.5	7402.2	7645.8	7956.1	8113.6	8228.5	8597.4	8684.7	8685.9	7996.3
42.5°	7017.2	7105.7	7376.9	7810.2	8211.2	8505.4	8807.7	9273.1	9336.3	9195.0	8427.3
45°	6880.4	6962.0	7253.9	7835.4	8411.2	8923.8	9344.4	9883.4	9929.3	9644.3	8824.9
47.5°	6748.3	6812.6	7150.5	7782.6	8615.8	9343.2	9801.8	10435.0	10468.3	10136.2	9213.4
50°	6565.5	6642.5	7001.1	7720.5	8738.7	9702.9	10250.0	10979.7	10975.1	10578.7	9565.0
52.5°	6365.6	6441.4	6826.4	7606.7	8819.2	9982.2	10760.2	11513.0	11516.4	11086.6	9913.3
55°	6113.9	6207.0	6612.7	7452.8	8838.7	10201.7	11202.7	12060.0	12116.3	11604.9	10248.8
57.5°	5812.8	5905.9	6349.5	7227.5	8722.6	10385.6	11675.0	12758.7	12788.6	12134.7	10499.4
60°	5462.3	5574.9	5999.0	6926.4	8500.8	10599.3	12247.3	13443.7	13454.0	12608.2	10708.5
62.5°	5056.6	5137.1	5583.0	6489.7	8146.9	10684.4	12720.8	14072.3	14074.6	12965.6	10802.8
65°	4617.6	4648.6	5022.1	5895.5	7630.9	10545.3	12902.4	14455.0	14444.7	13279.3	10755.6
67.5°	4094.7	4079.8	4478.5	5161.2	6978.1	10082.2	12813.9	14651.5	14682.6	13520.7	10603.9
70°	3329.3	3351.2	3668.3	4339.5	5924.3	9338.6	12570.3	14732.0	14723.9	13400.0	10115.5
72.5°	2527.2	2566.2	2796.1	3299.4	4598.1	7853.8	11526.8	13842.5	13858.6	12549.6	9236.4
75°	1563.0	1675.6	1869.8	2176.6	2881.1	5626.6	9811.0	12125.5	12207.1	11072.8	7605.6
77.5°	684.9	711.4	809.1	1049.2	1506.6	2824.8	7252.8	9683.4	9924.7	8954.8	5486.4
80°	424.1	424.1	451.6	526.3	672.3	1050.4	2906.4	5781.8	5537.0	5122.1	2420.3
82.5°	352.8	352.8	366.6	379.2	344.8	444.8	972.2	1620.4	1736.5	1405.5	743.6
85°	191.9	196.5	197.7	201.1	197.7	240.2	382.7	479.2	485.0	439.0	264.3
87.5°	70.1	74.7	72.4	67.8	60.9	57.5	73.6	74.7	77.0	71.3	39.1
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°	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3
2.5°	3917.7	3933.8	3976.3	3979.8	3995.9	4001.6	4015.4	4034.9	4069.4	4052.2	4032.6
5°	3962.5	3983.2	4051.0	4085.5	4130.3	4156.8	4200.4	4222.3	4275.1	4257.9	4255.6
7.5°	4030.3	4074.0	4134.9	4168.3	4226.9	4244.1	4276.3	4276.3	4320.0	4298.1	4292.4
10°	4122.3	4151.0	4215.4	4217.7	4251.0	4251.0	4288.9	4264.8	4307.3	4282.0	4280.9
12.5°	4195.8	4211.9	4236.1	4216.5	4233.8	4214.2	4233.8	4205.0	4231.5	4199.3	4192.4
15°	4278.6	4256.7	4232.6	4186.6	4171.7	4140.7	4124.6	4094.7	4097.0	4060.2	4054.5
17.5°	4371.7	4315.4	4245.3	4145.3	4090.1	4010.8	3977.5	3935.0	3910.8	3877.5	3892.4
20°	4484.3	4400.4	4254.4	4099.3	3982.1	3861.4	3783.3	3714.3	3708.6	3678.7	3662.6
22.5°	4630.2	4495.8	4294.7	4033.8	3845.3	3672.9	3556.9	3441.9	3430.4	3369.5	3346.6
25°	4810.7	4622.2	4315.4	3983.2	3685.6	3448.8	3266.1	3106.4	3029.4	2965.0	2950.1
27.5°	5053.2	4808.4	4356.7	3892.4	3497.1	3170.7	2908.7	2697.2	2605.3	2573.1	2539.8
30°	5337.0	5035.9	4433.7	3816.6	3274.2	2815.6	2496.1	2244.4	2144.5	2093.9	2077.8
32.5°	5755.3	5323.2	4505.0	3691.3	3004.1	2424.9	2008.9	1730.7	1669.8	1660.6	1682.5
35°	6364.4	5863.4	4608.4	3575.3	2686.9	1990.5	1530.8	1349.2	1336.6	1338.9	1338.9
37.5°	6998.8	6378.2	4915.3	3404.0	2298.5	1498.6	1165.3	1066.5	1071.1	1071.1	1069.9
40°	7412.5	6791.9	5138.2	3161.5	1815.8	1074.5	864.2	789.5	821.7	865.4	888.4
42.5°	7868.8	7167.7	5292.2	2882.3	1263.0	759.6	628.6	655.1	749.3	816.0	825.1
45°	8257.2	7487.2	5309.4	2447.9	813.7	576.9	573.5	649.3	758.5	830.9	836.6
47.5°	8590.5	7778.0	5201.4	1951.4	593.0	539.0	573.5	668.9	767.7	812.5	817.1
50°	8913.4	8009.0	4947.4	1499.7	540.1	525.2	580.4	672.3	734.4	765.4	760.8
52.5°	9200.7	8219.3	4579.7	1169.9	519.5	516.0	586.1	668.9	707.9	705.6	702.2
55°	9419.1	8281.3	4292.4	912.5	502.2	510.3	589.6	672.3	701.0	680.3	675.7
57.5°	9531.7	8204.3	4051.0	725.2	483.8	504.5	598.7	671.1	721.7	760.8	758.5
60°	9529.4	8117.0	3753.4	625.2	465.4	499.9	613.7	728.6	911.3	948.1	949.3
62.5°	9492.6	7967.6	3345.4	565.4	444.8	502.2	624.0	827.4	1037.8	1007.9	983.7
65°	9370.8	7687.2	2798.4	501.1	418.3	504.5	619.4	895.2	951.6	844.7	829.7
67.5°	9031.8	7144.8	2197.3	448.2	394.2	491.9	627.5	832.0	874.6	806.8	784.9
70°	8343.4	6380.5	1489.4	386.1	366.6	473.5	609.1	818.3	863.1	794.1	761.9
72.5°	7252.8	5121.0	871.1	332.1	326.4	435.6	599.9	827.4	876.9	799.9	758.5
75°	5645.0	3590.2	503.4	268.9	272.4	402.2	550.5	780.3	868.8	809.1	755.0
77.5°	3644.2	1743.4	355.1	214.9	212.6	317.2	447.1	682.6	836.6	817.1	772.3
80°	1304.4	636.7	249.4	159.7	155.1	214.9	343.6	549.3	707.9	733.2	733.2
82.5°	468.9	319.5	159.7	97.7	96.5	136.8	256.3	417.2	513.7	579.2	595.3
85°	196.5	139.1	78.1	49.4	40.2	52.9	132.2	258.6	348.2	374.6	408.0
87.5°	28.7	25.3	20.7	16.1	13.8	13.8	17.2	74.7	124.1	178.1	220.7
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)