

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: P510311

Luminaire Tested: **VERD-M-CA4-250-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510311
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-CA4-250-727-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1130mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29333 lumens
Efficiency: N/A
Efficacy: 116.5 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

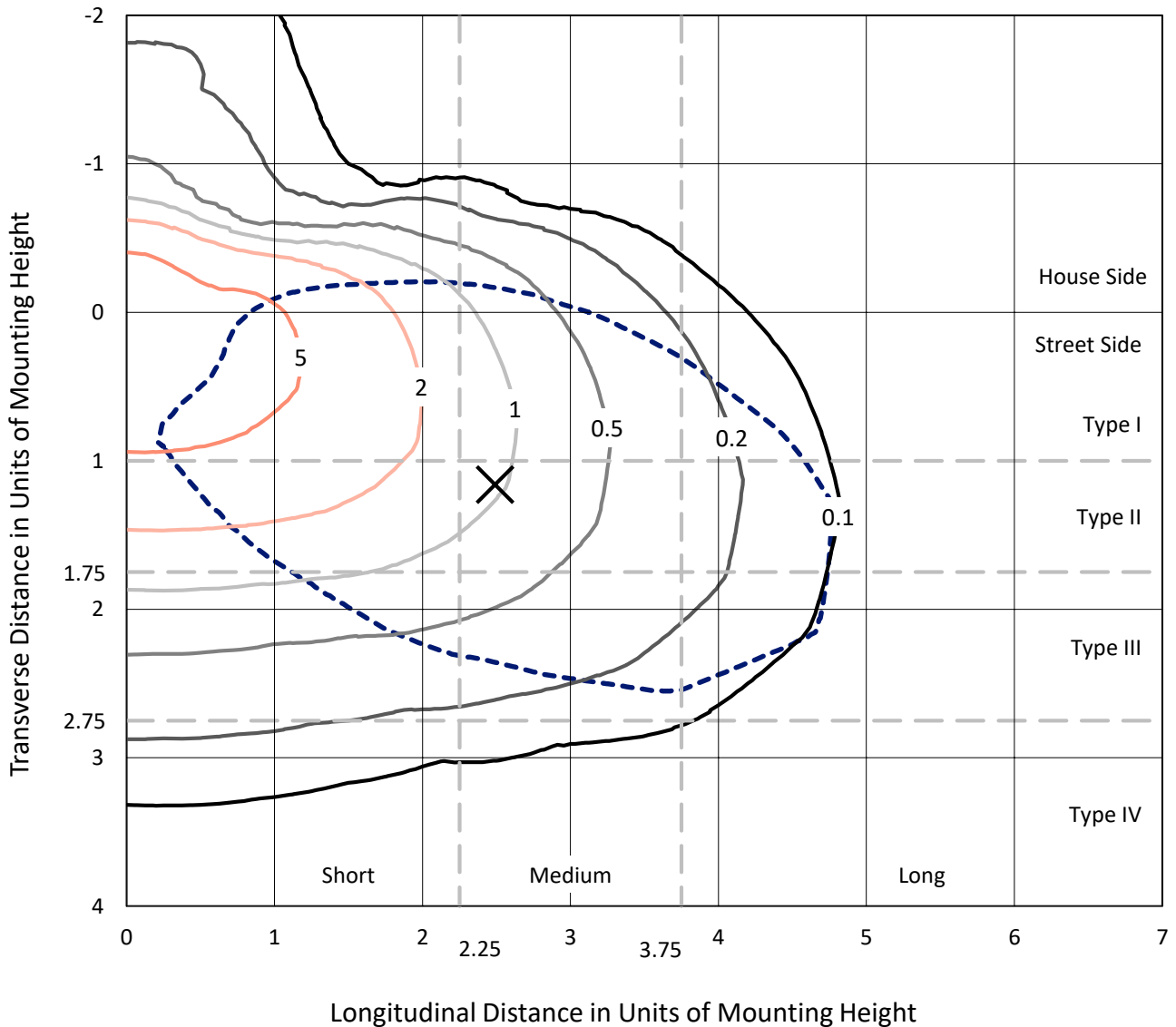
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

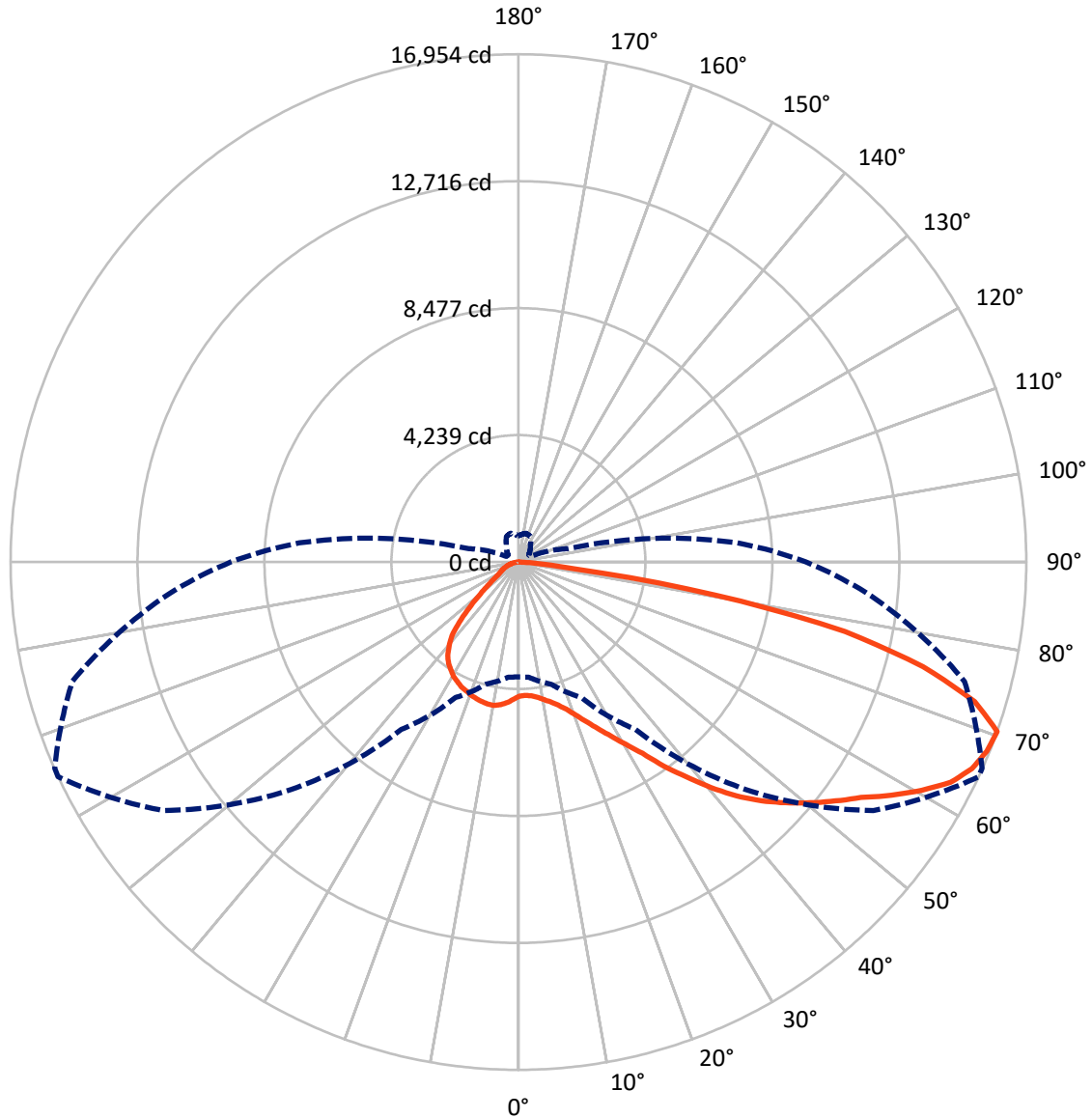
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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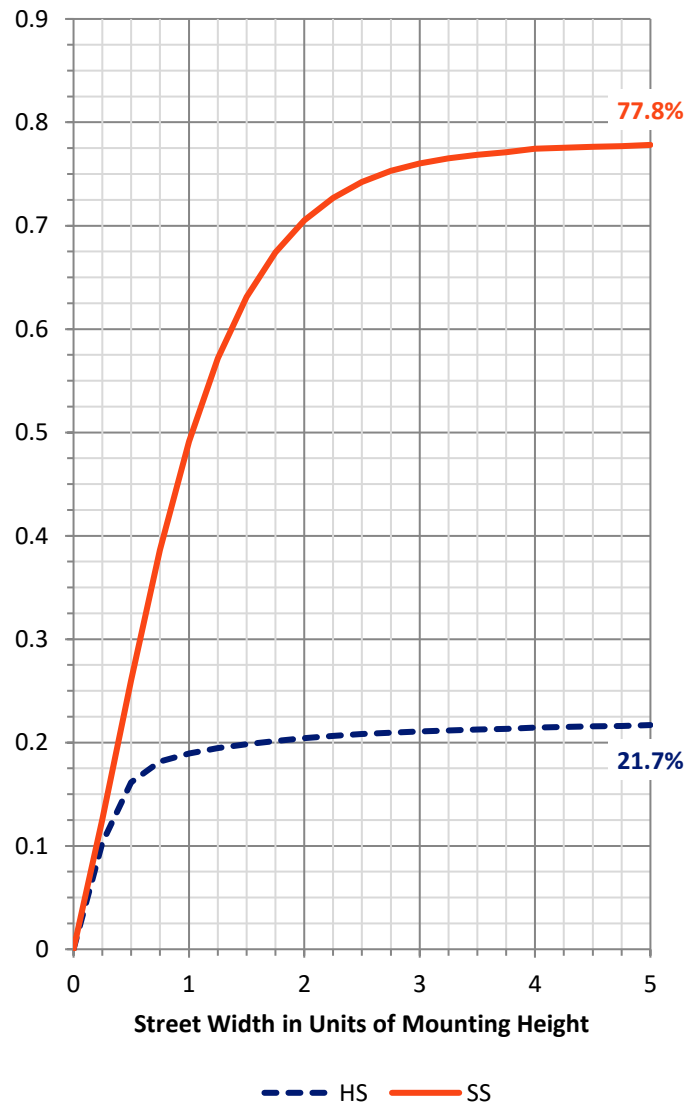
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6470.6	0.0	6470.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22862.4	0.0	22862.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	29333.0	0.0	29333.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.2	1.5
10°-20°	1419.9	4.8
20°-30°	2463.2	8.4
30°-40°	3581.4	12.2
40°-50°	4784.9	16.3
50°-60°	5828.4	19.9
60°-70°	6283.1	21.4
70°-80°	4073.6	13.9
80°-90°	449.3	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°	29333.0	100.0
0°-180°	29333.0	100.0



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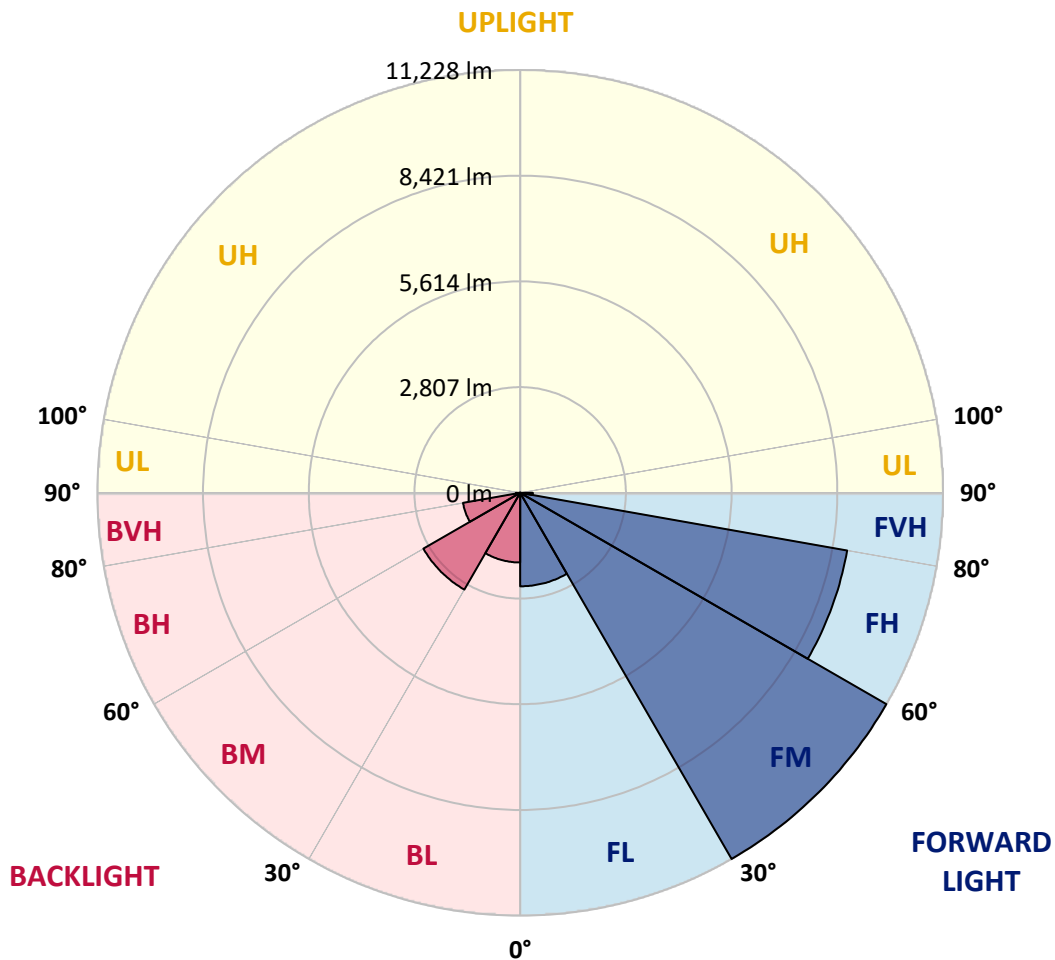
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.4	8.5			
FM (30°-60°)	11228.1	38.3			
FH (60°-80°)	8816.8	30.1			G4/12000
FVH (80°-90°)	335.1	1.1			G3/500
BL (0°-30°)	1849.9	6.3	B3/2500		
BM (30°-60°)	2966.6	10.1	B3/5000		
BH (60°-80°)	1539.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	114.2	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°	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3
2.5°	4412.2	4451.9	4430.7	4432.0	4462.4	4437.3	4454.5	4454.5	4453.2	4462.4	4490.2
5°	4520.6	4563.0	4537.8	4522.0	4528.6	4496.8	4490.2	4484.9	4481.0	4491.5	4537.8
7.5°	4679.3	4728.3	4700.5	4686.0	4678.0	4605.3	4592.1	4556.3	4552.4	4561.6	4604.0
10°	4889.6	4955.8	4922.7	4881.7	4853.9	4769.3	4701.8	4670.1	4660.8	4655.5	4699.2
12.5°	5192.5	5250.7	5212.4	5135.6	5098.6	4962.4	4881.7	4791.8	4790.4	4771.9	4805.0
15°	5479.5	5540.4	5491.4	5416.0	5367.1	5183.3	5064.2	4953.1	4939.9	4918.7	4929.3
17.5°	5757.3	5831.3	5796.9	5728.2	5668.6	5463.6	5307.6	5164.7	5150.2	5117.1	5068.2
20°	6102.5	6169.9	6160.7	6098.5	6032.4	5799.6	5629.0	5445.1	5429.3	5369.7	5260.0
22.5°	6447.7	6531.0	6479.4	6468.8	6431.8	6200.3	5962.3	5775.8	5759.9	5681.9	5480.8
25°	6773.0	6847.1	6865.6	6848.4	6852.4	6623.6	6386.8	6152.7	6136.8	6031.0	5740.1
27.5°	7157.9	7228.0	7233.3	7237.2	7283.5	7093.1	6815.3	6574.6	6564.0	6445.0	6076.0
30°	7452.8	7569.2	7593.0	7615.5	7639.3	7537.5	7284.9	7060.0	7038.9	6909.2	6454.3
32.5°	7722.6	7809.9	7894.6	7940.9	8048.0	7956.7	7749.1	7610.2	7611.5	7550.7	7057.4
35°	7931.6	8028.2	8135.3	8304.6	8460.6	8422.3	8357.5	8365.4	8366.7	8393.2	7870.8
37.5°	8131.3	8218.6	8353.5	8555.9	8831.0	8881.2	8924.9	9090.2	9148.4	9272.7	8622.0
40°	8251.7	8344.3	8518.8	8799.2	9156.3	9337.5	9469.8	9894.3	9994.9	9996.2	9202.6
42.5°	8075.8	8177.6	8489.7	8988.4	9450.0	9788.5	10136.4	10672.0	10744.8	10582.1	9698.6
45°	7918.4	8012.3	8348.2	9017.5	9680.1	10270.0	10754.0	11374.3	11427.2	11099.2	10156.2
47.5°	7766.3	7840.4	8229.2	8956.6	9915.5	10752.7	11280.4	12009.2	12047.5	11665.3	10603.3
50°	7556.0	7644.6	8057.3	8885.2	10057.0	11166.7	11796.2	12636.1	12630.8	12174.5	11008.0
52.5°	7325.9	7413.2	7856.2	8754.3	10149.6	11488.1	12383.5	13249.8	13253.7	12759.1	11408.7
55°	7036.2	7143.3	7610.2	8577.0	10172.1	11740.7	12892.7	13879.3	13944.1	13355.6	11794.9
57.5°	6689.7	6796.8	7307.3	8317.8	10038.5	11952.3	13436.3	14683.5	14717.9	13965.3	12083.2
60°	6286.3	6415.9	6904.0	7971.3	9783.2	12198.3	14094.9	15471.7	15483.6	14510.2	12324.0
62.5°	5819.4	5912.0	6425.2	7468.7	9375.9	12296.2	14639.8	16195.2	16197.8	14921.5	12432.4
65°	5314.2	5349.9	5779.7	6784.9	8782.0	12136.1	14848.8	16635.6	16623.7	15282.6	12378.2
67.5°	4712.4	4695.2	5154.2	5939.8	8030.8	11603.1	14747.0	16861.8	16897.5	15560.3	12203.6
70°	3831.6	3856.7	4221.7	4994.1	6818.0	10747.4	14466.6	16954.4	16945.1	15421.5	11641.5
72.5°	2908.4	2953.4	3217.9	3797.2	5291.7	9038.6	13265.6	15930.7	15949.2	14442.8	10629.7
75°	1798.7	1928.3	2151.9	2505.0	3315.7	6475.4	11291.0	13954.7	14048.6	12743.2	8752.9
77.5°	788.3	818.7	931.1	1207.5	1733.9	3250.9	8346.9	11144.2	11421.9	10305.7	6314.1
80°	488.0	488.0	519.8	605.7	773.7	1208.9	3344.8	6654.0	6372.3	5894.8	2785.4
82.5°	406.0	406.0	421.9	436.5	396.8	511.8	1118.9	1864.9	1998.4	1617.5	855.7
85°	220.9	226.2	227.5	231.5	227.5	276.4	440.4	551.5	558.1	505.2	304.2
87.5°	80.7	86.0	83.3	78.0	70.1	66.1	84.6	86.0	88.6	82.0	45.0
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°	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3	4478.3
2.5°	4508.7	4527.2	4576.2	4580.2	4598.7	4605.3	4621.2	4643.6	4683.3	4663.5	4641.0
5°	4560.3	4584.1	4662.2	4701.8	4753.4	4783.8	4834.1	4859.2	4920.1	4900.2	4897.6
7.5°	4638.3	4688.6	4758.7	4797.1	4864.5	4884.3	4921.4	4921.4	4971.6	4946.5	4939.9
10°	4744.2	4777.2	4851.3	4853.9	4892.3	4892.3	4935.9	4908.2	4957.1	4928.0	4926.7
12.5°	4828.8	4847.3	4875.1	4852.6	4872.4	4850.0	4872.4	4839.4	4869.8	4832.8	4824.8
15°	4924.0	4898.9	4871.1	4818.2	4801.0	4765.3	4746.8	4712.4	4715.1	4672.7	4666.1
17.5°	5031.2	4966.3	4885.7	4770.6	4707.1	4615.9	4577.5	4528.6	4500.8	4462.4	4479.6
20°	5160.8	5064.2	4896.3	4717.7	4582.8	4443.9	4354.0	4274.6	4268.0	4233.6	4215.1
22.5°	5328.7	5174.0	4942.5	4642.3	4425.4	4227.0	4093.4	3961.2	3948.0	3877.9	3851.4
25°	5536.4	5319.5	4966.3	4584.1	4241.6	3969.1	3758.8	3575.0	3486.4	3412.3	3395.1
27.5°	5815.5	5533.7	5014.0	4479.6	4024.7	3649.0	3347.5	3104.1	2998.3	2961.3	2922.9
30°	6142.1	5795.6	5102.6	4392.3	3768.1	3240.4	2872.7	2583.0	2468.0	2409.8	2391.3
32.5°	6623.6	6126.3	5184.6	4248.2	3457.3	2790.7	2311.9	1991.8	1921.7	1911.2	1936.3
35°	7324.5	6747.9	5303.6	4114.6	3092.2	2290.7	1761.7	1552.7	1538.2	1540.8	1540.8
37.5°	8054.6	7340.4	5656.7	3917.5	2645.2	1724.7	1341.1	1227.4	1232.7	1232.7	1231.3
40°	8530.7	7816.5	5913.3	3638.5	2089.7	1236.6	994.6	908.6	945.7	995.9	1022.4
42.5°	9055.8	8249.0	6090.6	3317.1	1453.5	874.2	723.5	753.9	862.3	939.0	949.6
45°	9502.9	8616.7	6110.4	2817.1	936.4	663.9	660.0	747.3	872.9	956.2	962.9
47.5°	9886.4	8951.3	5986.1	2245.8	682.5	620.3	660.0	769.8	883.5	935.1	940.4
50°	10258.1	9217.2	5693.8	1726.0	621.6	604.4	667.9	773.7	845.1	880.8	875.6
52.5°	10588.7	9459.2	5270.5	1346.4	597.8	593.8	674.5	769.8	814.7	812.1	808.1
55°	10840.0	9530.6	4939.9	1050.1	578.0	587.2	678.5	773.7	806.8	783.0	777.7
57.5°	10969.6	9442.0	4662.2	834.6	556.8	580.6	689.1	772.4	830.6	875.6	872.9
60°	10967.0	9341.5	4319.6	719.5	535.7	575.3	706.3	838.5	1048.8	1091.1	1092.5
62.5°	10924.6	9169.6	3850.1	650.7	511.8	578.0	718.2	952.3	1194.3	1159.9	1132.1
65°	10784.5	8846.8	3220.5	576.7	481.4	580.6	712.9	1030.3	1095.1	972.1	954.9
67.5°	10394.3	8222.6	2528.8	515.8	453.7	566.1	722.1	957.6	1006.5	928.5	903.3
70°	9602.1	7343.1	1714.1	444.4	421.9	544.9	701.0	941.7	993.3	913.9	876.9
72.5°	8346.9	5893.5	1002.5	382.2	375.6	501.3	690.4	952.3	1009.1	920.5	872.9
75°	6496.6	4131.8	579.3	309.5	313.5	462.9	633.5	898.0	999.9	931.1	868.9
77.5°	4194.0	2006.4	408.7	247.3	244.7	365.0	514.5	785.6	962.9	940.4	888.8
80°	1501.1	732.7	287.0	183.8	178.6	247.3	395.5	632.2	814.7	843.8	843.8
82.5°	539.6	367.7	183.8	112.4	111.1	157.4	294.9	480.1	591.2	666.6	685.1
85°	226.2	160.0	89.9	56.9	46.3	60.8	152.1	297.6	400.7	431.2	469.5
87.5°	33.1	29.1	23.8	18.5	15.9	15.9	19.8	86.0	142.8	205.0	253.9
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)