

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: P510341

Luminaire Tested: **VERD-M-CA4-250-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-250-760-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1130mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34451 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

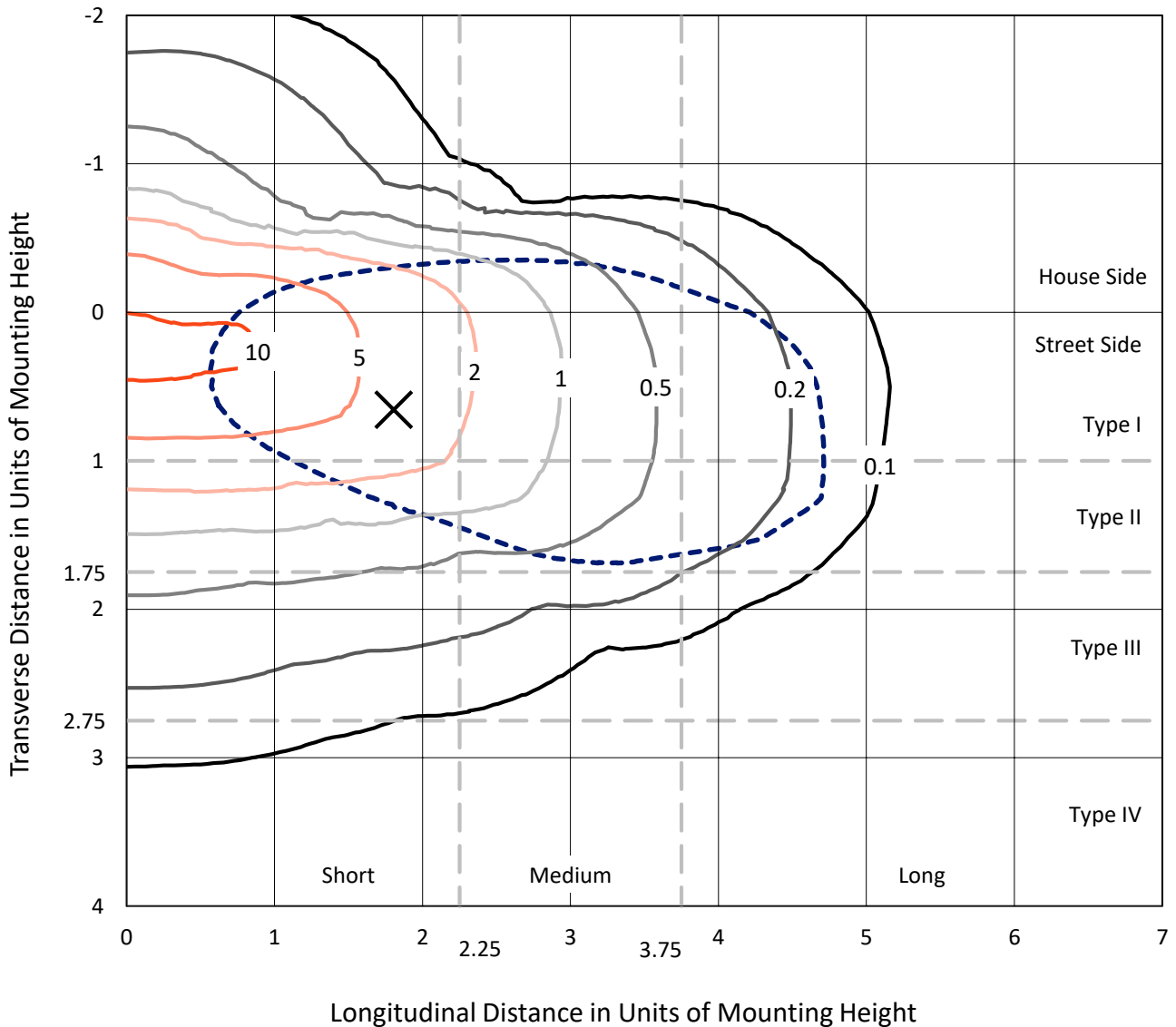
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

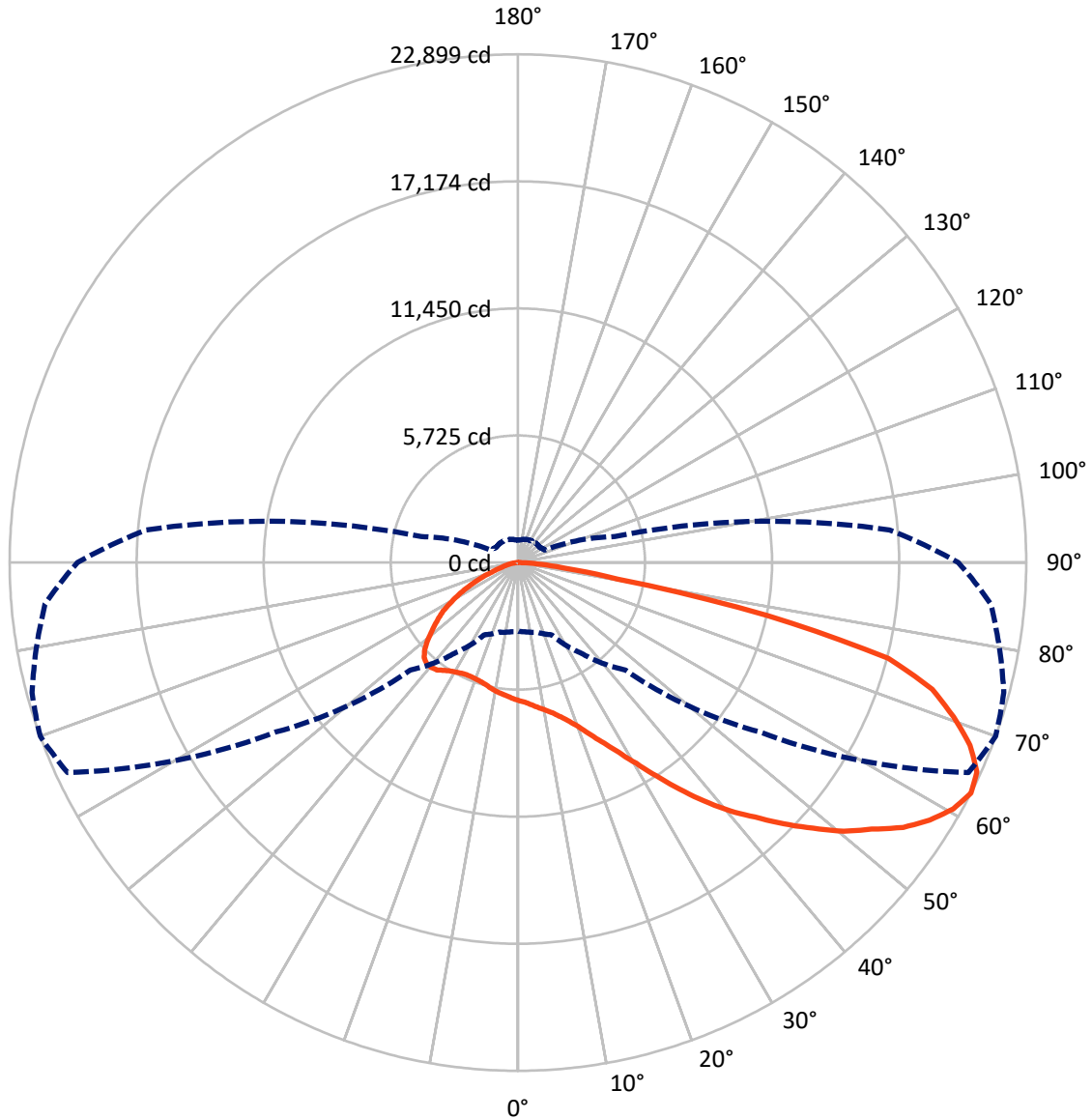
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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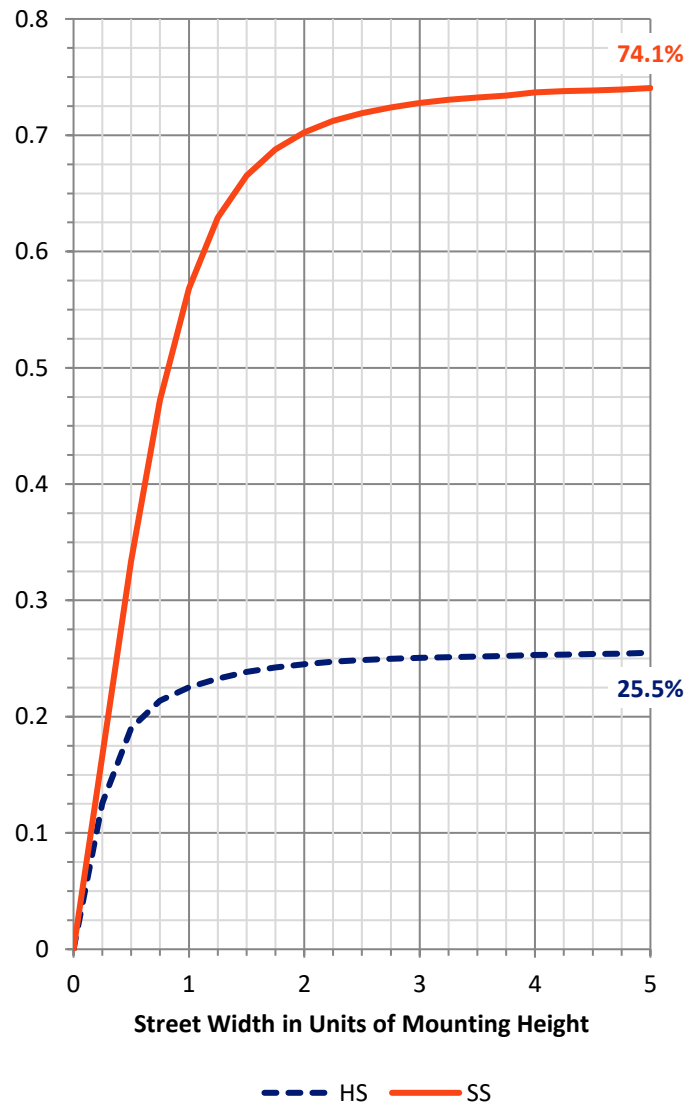
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8919.5	0.0	8919.5
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	25531.5	0.0	25531.5
	% Fixture	74.1	0.0	74.1
Total	Lumens	34451.0	0.0	34451.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.2	1.7
10°-20°	1813.7	5.3
20°-30°	3078.1	8.9
30°-40°	4453.9	12.9
40°-50°	5844.6	17.0
50°-60°	6829.2	19.8
60°-70°	6853.4	19.9
70°-80°	4367.1	12.7
80°-90°	613.7	1.8
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°	34451.0	100.0
0°-180°	34451.0	100.0



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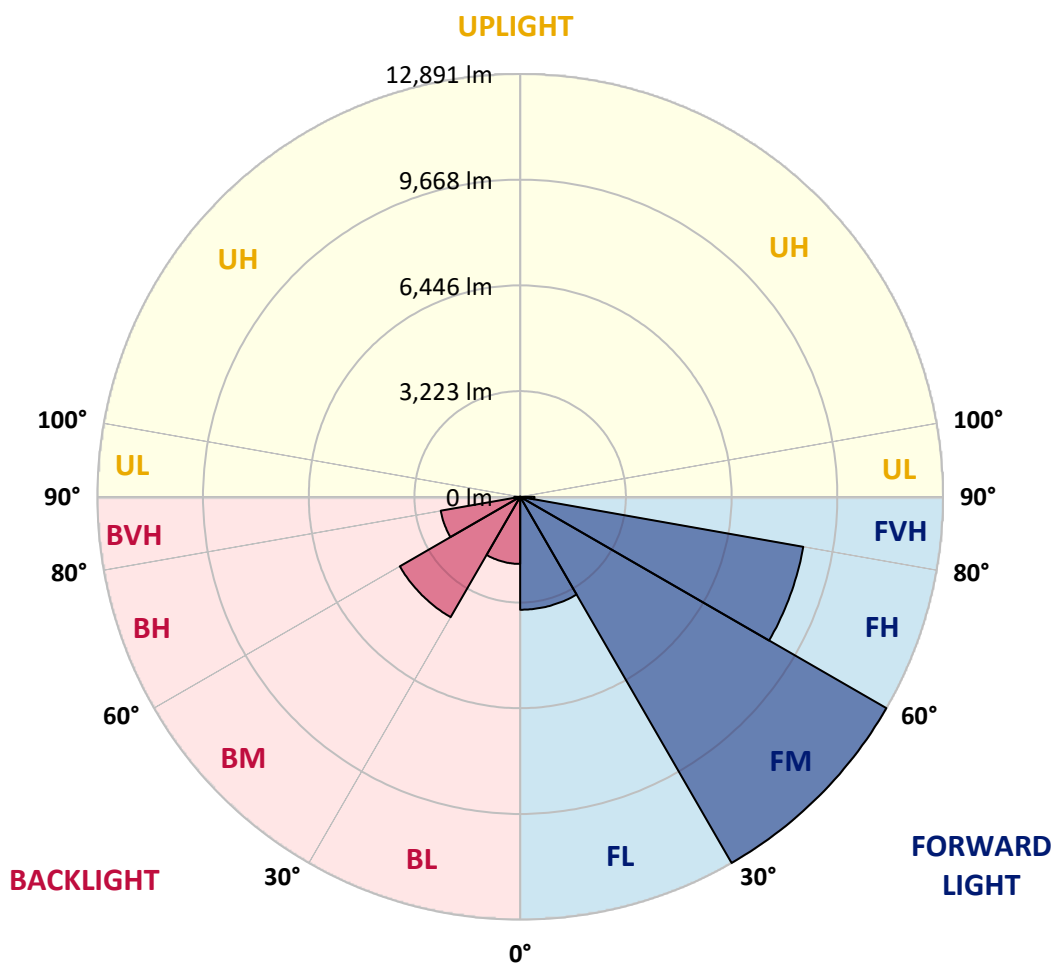
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3443.4	10.0			
FM (30°-60°)	12891.2	37.4			
FH (60°-80°)	8764.0	25.4			G4/12000
FVH (80°-90°)	432.9	1.3			G3/500
BL (0°-30°)	2045.7	5.9	B3/2500		
BM (30°-60°)	4236.5	12.3	B3/5000		
BH (60°-80°)	2456.5	7.1	B3/2500		G3/2500
BVH (80°-90°)	180.8	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9
2.5°	6456.1	6524.6	6515.3	6473.2	6502.8	6421.9	6392.3	6347.1	6300.4	6284.9	6258.4
5°	6761.3	6851.6	6834.4	6778.4	6776.8	6661.6	6596.2	6510.6	6439.0	6383.0	6300.4
7.5°	7046.2	7150.5	7134.9	7080.4	7077.3	6945.0	6809.5	6675.6	6593.1	6521.5	6370.5
10°	7348.2	7427.6	7413.6	7343.5	7329.5	7200.3	7041.5	6873.4	6751.9	6652.3	6437.4
12.5°	7626.8	7710.9	7717.1	7630.0	7608.2	7469.6	7331.1	7108.4	6951.2	6837.5	6521.5
15°	7886.8	7986.5	7967.8	7880.6	7857.3	7717.1	7581.7	7376.2	7212.7	7053.9	6658.5
17.5°	8095.5	8190.4	8167.1	8128.1	8115.7	8006.7	7894.6	7672.0	7527.2	7323.3	6870.2
20°	8238.7	8327.4	8336.8	8325.9	8397.5	8294.7	8232.5	8075.2	7916.4	7732.7	7159.8
22.5°	8294.7	8400.6	8490.9	8560.9	8708.8	8693.3	8682.4	8592.1	8436.4	8168.6	7542.8
25°	8311.8	8417.7	8557.8	8730.6	8995.3	9090.3	9158.8	9180.6	9010.9	8799.1	8019.2
27.5°	8315.0	8428.6	8571.8	8850.5	9253.7	9540.2	9703.6	9779.9	9685.0	9516.8	8666.8
30°	8249.6	8366.3	8550.0	8922.1	9456.1	9926.3	10197.2	10535.0	10494.5	10352.8	9477.9
32.5°	8061.2	8167.1	8420.8	8909.7	9656.9	10321.7	10743.6	11329.0	11466.0	11374.1	10413.6
35°	7723.4	7852.6	8181.1	8806.9	9765.9	10706.2	11386.6	12297.3	12544.8	12551.1	11560.9
37.5°	7382.4	7480.5	7866.6	8613.9	9826.6	11047.2	11996.8	13267.2	13626.8	13634.6	12515.3
40°	7019.7	7110.0	7535.0	8355.4	9764.4	11315.0	12565.1	14199.7	14715.0	14666.8	13452.5
42.5°	6549.5	6649.2	7071.1	8003.6	9608.7	11522.0	13142.7	15179.0	15674.0	15728.5	14430.1
45°	6147.9	6227.3	6596.2	7454.0	9323.8	11634.1	13684.4	16223.6	16790.3	16732.7	15473.2
47.5°	5652.8	5771.1	6165.0	7007.2	8811.6	11606.1	14202.8	17257.3	17887.8	17834.9	16377.7
50°	4360.6	4497.6	5413.1	6538.6	8157.7	11386.6	14673.0	18245.9	19029.0	18890.4	17335.2
52.5°	3960.5	3999.5	4363.8	6000.0	7513.2	10888.4	15018.6	19494.5	19958.4	19903.9	18305.1
55°	3716.1	3790.9	3957.4	4942.9	6934.1	10078.8	15258.4	20537.5	21060.6	20805.3	19183.1
57.5°	3501.3	3554.2	3751.9	4231.4	6267.7	8964.2	15188.3	21417.1	21884.2	21527.7	20040.9
60°	3272.4	3306.7	3504.4	3862.5	5548.5	7732.7	14476.8	22324.8	22531.8	22204.9	20766.4
62.5°	3095.0	3127.6	3246.0	3590.0	4988.0	6851.6	13312.3	22388.6	22899.2	22661.0	21382.9
65°	2867.7	2889.5	3037.4	3308.2	4468.1	6326.9	12286.4	21789.2	22721.8	22662.6	21619.5
67.5°	2617.0	2643.5	2783.6	2975.1	3803.3	5708.9	10570.8	21465.4	21971.4	22029.0	21175.8
70°	2322.8	2341.5	2486.2	2624.8	3253.7	5011.4	8403.7	20224.6	20814.7	20813.1	19805.8
72.5°	2005.2	2003.6	2146.9	2293.2	2726.0	4209.6	6579.1	17956.3	19517.8	19401.1	17856.7
75°	1653.3	1676.7	1815.2	1930.5	2268.3	3412.5	4581.7	13007.2	17230.9	17391.2	15410.9
77.5°	1057.1	1072.6	1150.5	1268.8	1586.4	2607.7	2989.1	7228.3	11504.9	13877.5	12130.7
80°	772.2	780.0	848.5	917.0	1055.5	1588.0	1519.5	3141.7	4559.9	6812.6	7441.6
82.5°	526.2	527.8	582.2	597.8	605.6	716.1	720.8	1528.8	2171.8	2557.9	3286.4
85°	348.7	289.6	225.7	298.9	306.7	263.1	256.9	689.7	1077.3	1292.2	1217.4
87.5°	77.8	76.3	88.7	90.3	87.2	74.7	62.3	105.9	161.9	160.4	205.5
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°	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9	6217.9
2.5°	6233.5	6225.7	6182.1	6090.3	6028.0	5964.2	5928.4	5906.6	5914.4	5878.5	5863.0
5°	6249.1	6210.1	6087.2	5978.2	5880.1	5769.6	5677.7	5665.3	5683.9	5651.2	5632.6
7.5°	6289.5	6207.0	6049.8	5863.0	5699.5	5595.2	5462.9	5395.9	5391.3	5358.6	5364.8
10°	6312.9	6205.5	5995.3	5769.6	5578.1	5392.8	5251.1	5176.4	5171.7	5125.0	5114.1
12.5°	6376.7	6222.6	5931.5	5655.9	5442.6	5195.1	5045.6	4977.1	4969.4	4904.0	4879.1
15°	6474.8	6261.5	5864.5	5523.6	5248.0	5016.1	4837.0	4745.2	4731.2	4654.9	4628.4
17.5°	6630.5	6372.1	5844.3	5403.7	5078.3	4824.6	4614.4	4514.8	4433.8	4391.8	4356.0
20°	6840.7	6509.1	5867.6	5291.6	4865.1	4572.4	4310.8	4180.1	4124.0	4055.5	4060.2
22.5°	7139.6	6723.9	5908.1	5204.4	4672.0	4303.0	4008.8	3862.5	3761.3	3703.7	3706.8
25°	7559.9	7047.7	5987.5	5121.9	4461.8	4008.8	3661.6	3457.7	3354.9	3317.6	3278.7
27.5°	8090.8	7435.4	6175.9	5020.7	4212.7	3675.6	3291.1	3052.9	2948.6	2892.6	2884.8
30°	8772.7	7944.4	6397.0	4946.0	3951.2	3260.0	2831.9	2643.5	2551.6	2472.2	2434.9
32.5°	9604.0	8663.7	6642.9	4871.3	3627.4	2794.5	2406.8	2262.1	2115.7	2014.5	2019.2
35°	10569.2	9446.8	7008.8	4776.3	3247.5	2360.1	2092.4	1905.5	1768.5	1701.6	1670.5
37.5°	11480.0	10250.1	7438.5	4679.8	2822.5	2078.4	1782.6	1609.7	1503.9	1452.5	1463.4
40°	12401.6	11078.3	7809.0	4443.2	2346.1	1823.0	1475.9	1377.8	1335.7	1295.3	1299.9
42.5°	13226.7	11738.4	8079.9	4180.1	2013.0	1530.4	1257.9	1279.7	1304.6	1281.3	1275.0
45°	14086.1	12510.6	8318.1	3731.7	1734.3	1299.9	1203.4	1264.1	1318.6	1315.5	1307.7
47.5°	14948.6	13226.7	8341.4	3137.0	1480.5	1222.1	1201.9	1247.0	1318.6	1331.1	1321.7
50°	15837.5	13977.1	8204.4	2436.4	1373.1	1231.4	1203.4	1211.2	1290.6	1304.6	1299.9
52.5°	16823.0	14788.2	7866.6	1852.6	1331.1	1247.0	1208.1	1197.2	1242.3	1267.2	1271.9
55°	17729.0	15432.7	7233.0	1636.2	1299.9	1248.6	1242.3	1206.5	1208.1	1195.6	1226.8
57.5°	18490.3	16047.7	6513.7	1517.9	1271.9	1234.6	1257.9	1191.0	1172.3	1120.9	1108.5
60°	19278.1	16547.4	5501.8	1436.9	1239.2	1217.4	1219.0	1164.5	1117.8	1043.1	1021.3
62.5°	19837.0	16812.1	4519.4	1342.0	1194.1	1191.0	1167.6	1127.1	1085.1	1019.7	1010.4
65°	19998.9	16672.0	3471.7	1242.3	1134.9	1147.4	1105.3	1049.3	874.9	794.0	794.0
67.5°	19463.3	15809.5	2570.3	1127.1	1063.3	1088.2	1005.7	826.7	736.4	688.1	695.9
70°	17995.3	14416.1	1673.6	959.0	960.6	980.8	829.8	744.2	658.5	629.0	644.5
72.5°	16033.7	12350.2	1103.8	764.4	809.5	775.3	758.2	685.0	608.7	574.5	585.4
75°	13212.7	9751.9	766.0	600.9	524.6	661.6	674.1	576.0	516.9	627.4	652.3
77.5°	10438.5	6778.4	632.1	420.3	387.6	488.8	540.2	534.0	854.7	1004.1	993.2
80°	6207.0	3902.9	515.3	291.1	274.0	314.5	425.0	613.4	957.4	719.2	685.0
82.5°	2814.7	1774.8	274.0	152.6	179.0	208.6	317.6	762.8	627.4	460.8	434.4
85°	1099.1	579.1	109.0	66.9	62.3	77.8	144.8	367.4	252.2	203.9	203.9
87.5°	141.7	104.3	31.1	23.4	20.2	24.9	46.7	203.9	118.3	99.6	96.5
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)