

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: P510333

Luminaire Tested: **VERD-M-CA4-250-750-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510333
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-CA4-250-750-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1130mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35197 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

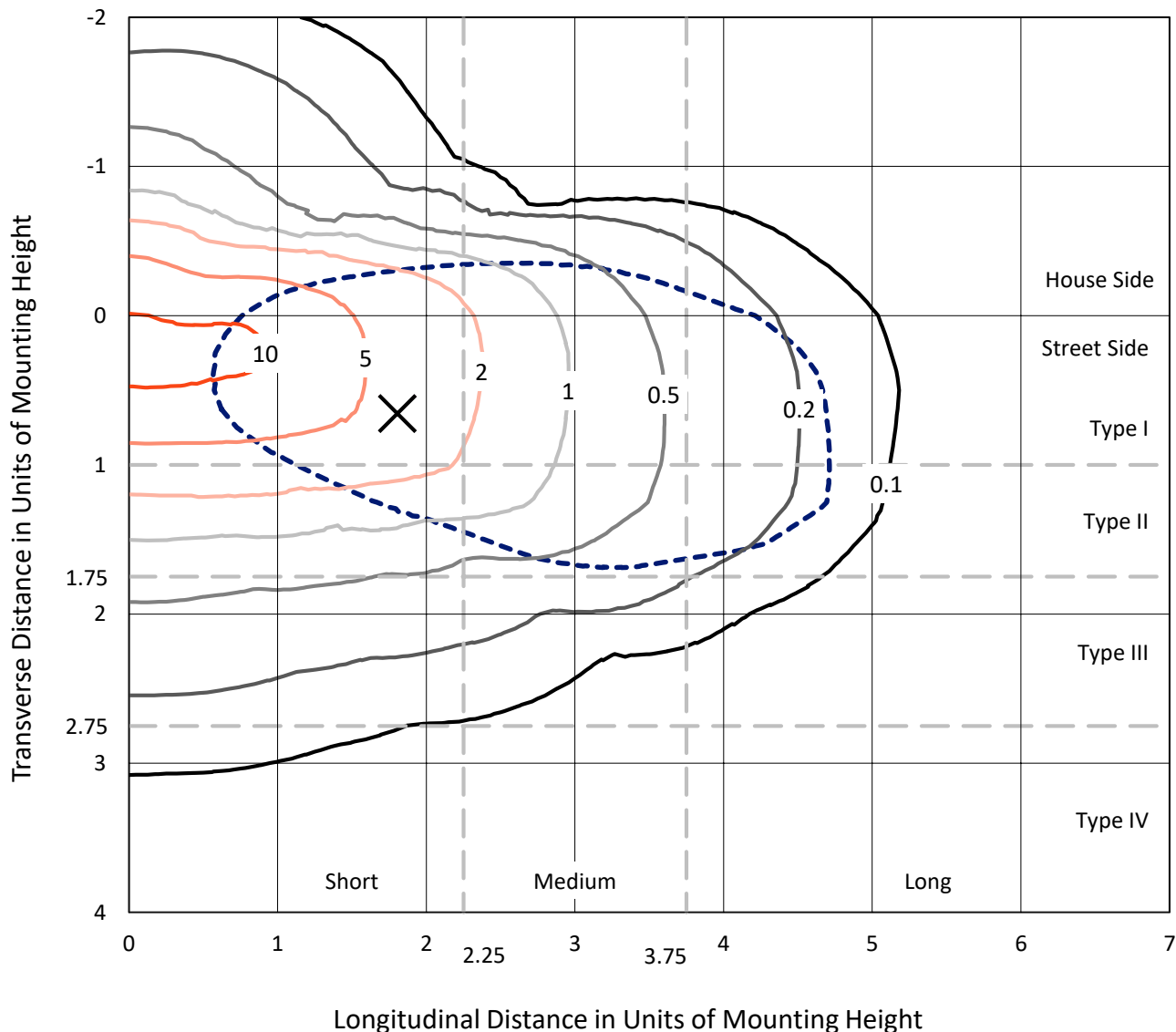
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

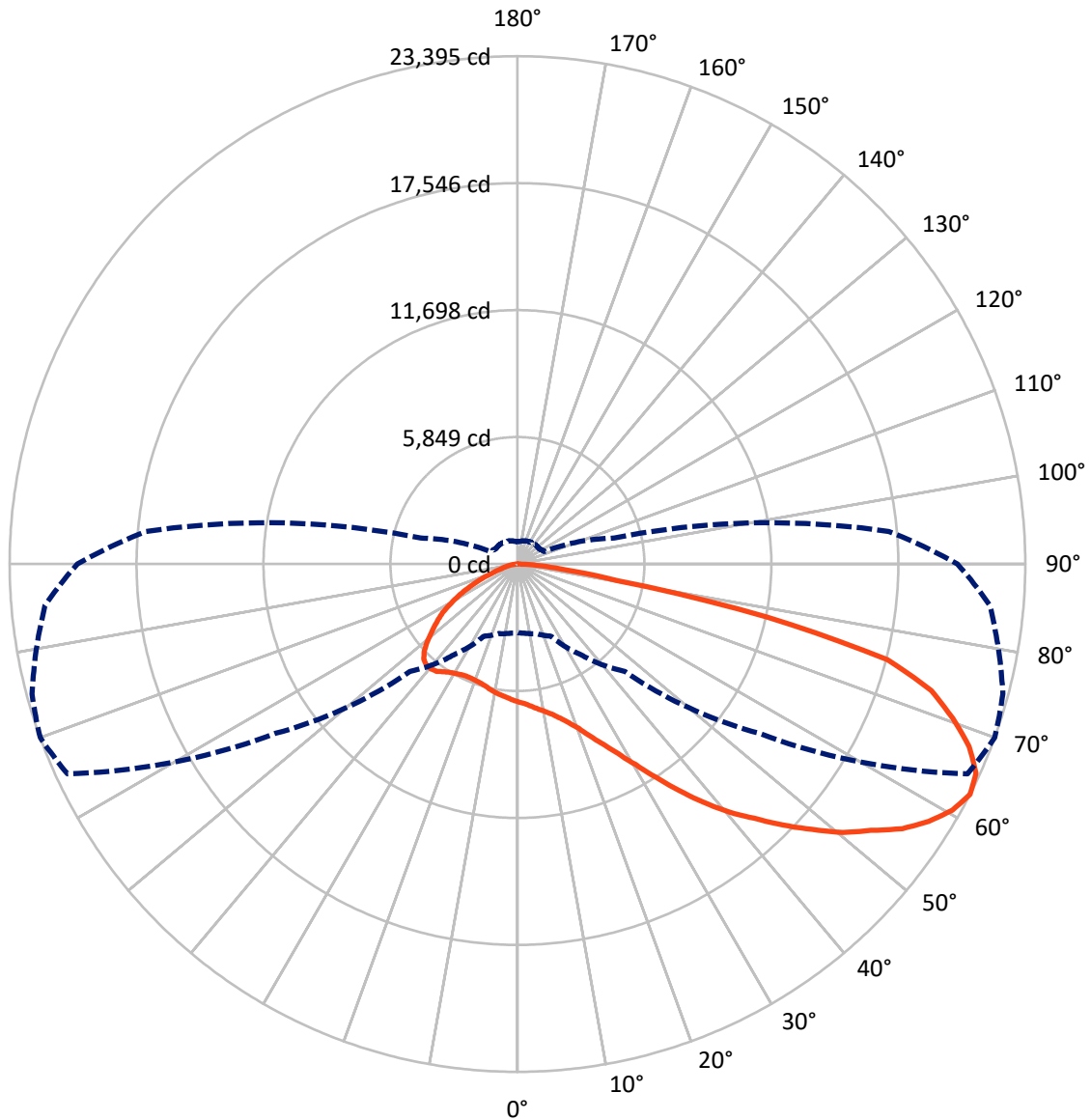
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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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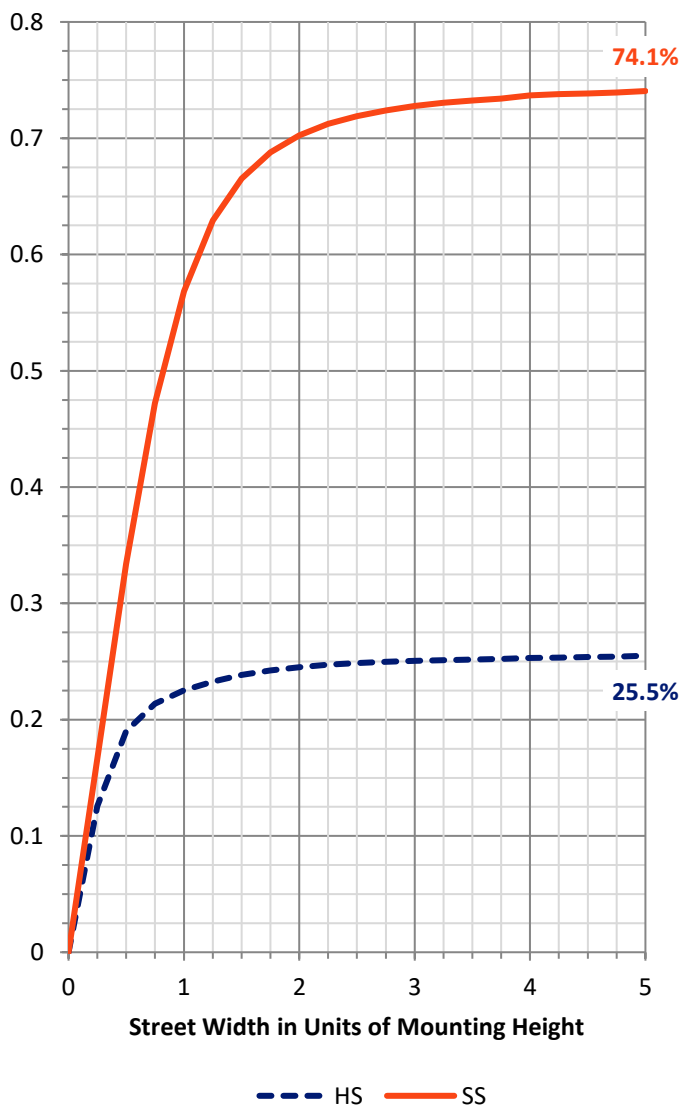
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9112.7	0.0	9112.7
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	26084.3	0.0	26084.3
	% Fixture	74.1	0.0	74.1
Total	Lumens	35197.0	0.0	35197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.2	1.7
10°-20°	1853.0	5.3
20°-30°	3144.8	8.9
30°-40°	4550.4	12.9
40°-50°	5971.1	17.0
50°-60°	6977.1	19.8
60°-70°	7001.8	19.9
70°-80°	4461.6	12.7
80°-90°	627.0	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°	35197.0	100.0
0°-180°	35197.0	100.0

Coefficient of Utilization



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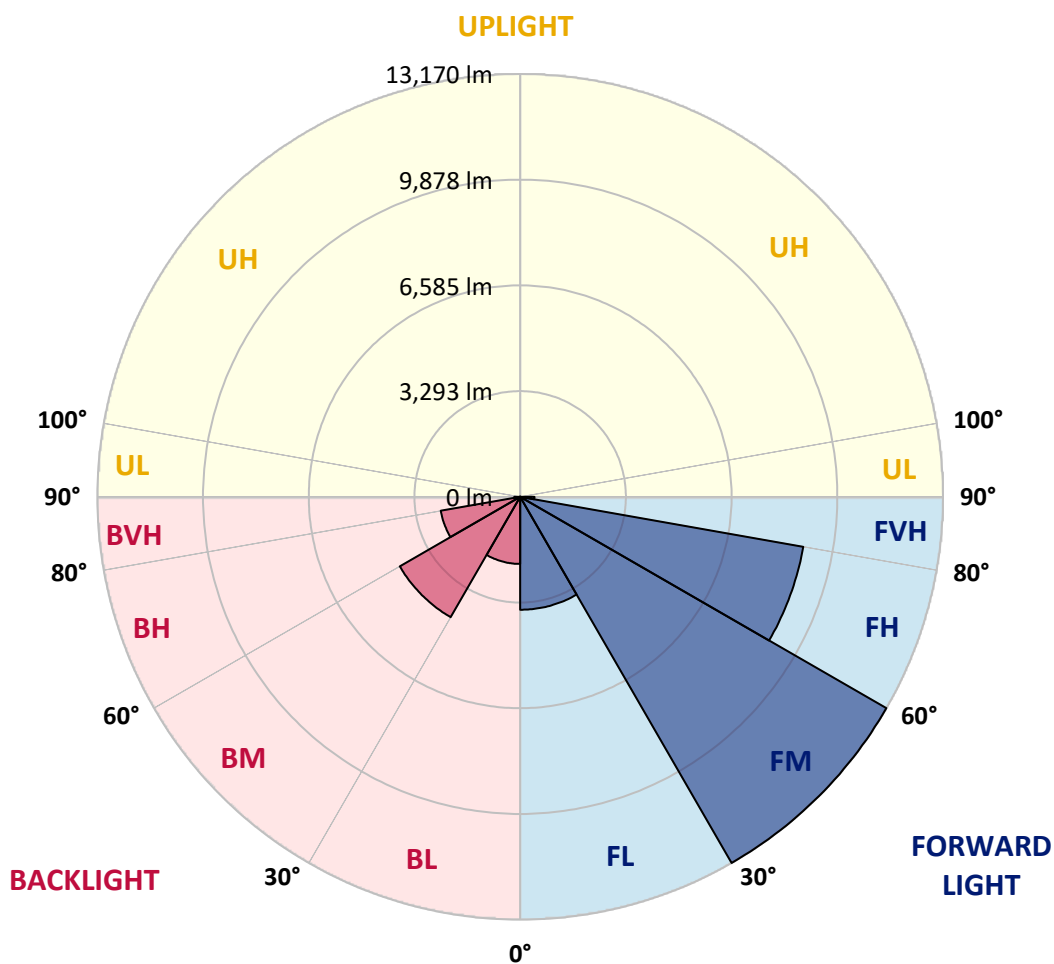
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3518.0	10.0			
FM (30°-60°)	13170.3	37.4			
FH (60°-80°)	8953.8	25.4			G4/12000
FVH (80°-90°)	442.3	1.3			G3/500
BL (0°-30°)	2090.0	5.9	B3/2500		
BM (30°-60°)	4328.3	12.3	B3/5000		
BH (60°-80°)	2509.7	7.1	B4/5000		G4/5000
BVH (80°-90°)	184.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6
2.5°	6595.9	6665.9	6656.4	6613.4	6643.6	6560.9	6530.7	6484.6	6436.9	6421.0	6393.9
5°	6907.7	6999.9	6982.4	6925.2	6923.6	6805.9	6739.1	6651.6	6578.4	6521.2	6436.9
7.5°	7198.7	7305.3	7289.4	7233.7	7230.5	7095.3	6957.0	6820.2	6735.9	6662.7	6508.4
10°	7507.3	7588.4	7574.1	7502.5	7488.2	7356.2	7194.0	7022.2	6898.1	6796.3	6576.8
12.5°	7792.0	7877.9	7884.3	7795.2	7772.9	7631.4	7489.8	7262.4	7101.7	6985.6	6662.7
15°	8057.6	8159.4	8140.3	8051.3	8027.4	7884.3	7745.9	7535.9	7368.9	7206.7	6802.7
17.5°	8270.8	8367.8	8343.9	8304.2	8291.4	8180.1	8065.6	7838.1	7690.2	7481.8	7019.0
20°	8417.1	8507.7	8517.3	8506.1	8579.3	8474.3	8410.7	8250.1	8087.8	7900.2	7314.8
22.5°	8474.3	8582.5	8674.7	8746.3	8897.4	8881.5	8870.4	8778.1	8619.1	8345.5	7706.1
25°	8491.8	8600.0	8743.1	8919.7	9190.1	9287.1	9357.1	9379.3	9206.0	8989.7	8192.8
27.5°	8495.0	8611.1	8757.5	9042.2	9454.1	9746.8	9913.8	9991.7	9894.7	9722.9	8854.5
30°	8428.2	8547.5	8735.2	9115.3	9660.9	10141.2	10418.0	10763.1	10721.8	10577.0	9683.1
32.5°	8235.8	8343.9	8603.2	9102.6	9866.1	10545.2	10976.2	11574.3	11714.2	11620.4	10639.0
35°	7890.6	8022.6	8358.2	8997.6	9977.4	10938.1	11633.1	12563.6	12816.5	12822.8	11811.3
37.5°	7542.3	7642.5	8036.9	8800.4	10039.4	11286.4	12256.6	13554.5	13921.9	13929.9	12786.3
40°	7171.7	7263.9	7698.2	8536.4	9975.8	11560.0	12837.2	14507.2	15033.7	14984.4	13743.8
42.5°	6691.4	6793.1	7224.2	8176.9	9816.7	11771.5	13427.2	15507.7	16013.4	16069.1	14742.6
45°	6281.0	6362.1	6739.1	7615.5	9525.7	11886.0	13980.7	16574.9	17153.9	17095.0	15808.3
47.5°	5775.2	5896.1	6298.5	7159.0	9002.4	11857.4	14510.4	17631.0	18275.2	18221.1	16732.4
50°	4455.1	4595.0	5530.3	6680.2	8334.4	11633.1	14990.7	18641.0	19441.0	19299.5	17710.5
52.5°	4046.3	4086.1	4458.3	6129.9	7675.9	11124.2	15343.8	19916.6	20390.6	20334.9	18701.4
55°	3796.6	3872.9	4043.1	5049.9	7084.2	10297.1	15588.8	20982.3	21516.7	21255.8	19598.5
57.5°	3577.1	3631.2	3833.2	4323.1	6403.5	9158.3	15517.2	21880.9	22358.1	21993.8	20474.9
60°	3343.3	3378.3	3580.3	3946.1	5668.6	7900.2	14790.3	22808.2	23019.7	22685.7	21216.1
62.5°	3162.0	3195.4	3316.3	3667.8	5096.1	6999.9	13600.6	22873.4	23395.1	23151.7	21845.9
65°	2929.8	2952.0	3103.1	3379.9	4564.8	6463.9	12552.5	22261.0	23213.8	23153.3	22087.7
67.5°	2673.7	2700.7	2843.9	3039.5	3885.7	5832.5	10799.7	21930.2	22447.1	22506.0	21634.4
70°	2373.1	2392.2	2540.1	2681.6	3324.2	5119.9	8585.7	20662.6	21265.4	21263.8	20234.7
72.5°	2048.6	2047.0	2193.3	2342.8	2785.0	4300.8	6721.6	18345.2	19940.5	19821.2	18243.4
75°	1689.1	1713.0	1854.6	1972.3	2317.4	3486.4	4680.9	13288.9	17604.0	17767.8	15744.6
77.5°	1080.0	1095.9	1175.4	1296.3	1620.7	2664.1	3053.8	7384.8	11754.0	14178.0	12393.4
80°	788.9	796.9	866.8	936.8	1078.4	1622.3	1552.4	3209.7	4658.7	6960.2	7602.7
82.5°	537.6	539.2	594.9	610.8	618.7	731.6	736.4	1561.9	2218.8	2613.2	3357.6
85°	356.3	295.8	230.6	305.4	313.3	268.8	262.4	704.6	1100.6	1320.1	1243.8
87.5°	79.5	77.9	90.7	92.3	89.1	76.3	63.6	108.2	165.4	163.8	209.9
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°	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6
2.5°	6368.5	6360.5	6316.0	6222.1	6158.5	6093.3	6056.7	6034.5	6042.4	6005.8	5989.9
5°	6384.4	6344.6	6219.0	6107.6	6007.4	5894.5	5800.7	5787.9	5807.0	5773.6	5754.5
7.5°	6425.7	6341.4	6180.8	5989.9	5822.9	5716.4	5581.2	5512.8	5508.0	5474.6	5481.0
10°	6449.6	6339.8	6125.1	5894.5	5698.9	5509.6	5364.9	5288.5	5283.7	5236.0	5224.9
12.5°	6514.8	6357.3	6059.9	5778.4	5560.5	5307.6	5154.9	5084.9	5077.0	5010.2	4984.7
15°	6615.0	6397.1	5991.5	5643.2	5361.7	5124.7	4941.8	4847.9	4833.6	4755.7	4728.6
17.5°	6774.1	6510.0	5970.8	5520.7	5188.3	4929.0	4714.3	4612.5	4529.8	4486.9	4450.3
20°	6988.8	6650.0	5994.7	5406.2	4970.4	4671.4	4404.2	4270.6	4213.3	4143.3	4148.1
22.5°	7294.2	6869.5	6036.1	5317.1	4773.2	4396.2	4095.6	3946.1	3842.7	3783.9	3787.0
25°	7723.6	7200.3	6117.2	5232.8	4558.5	4095.6	3740.9	3532.6	3427.6	3389.4	3349.7
27.5°	8266.0	7596.4	6309.6	5129.5	4304.0	3755.2	3362.4	3119.0	3012.5	2955.2	2947.3
30°	8962.6	8116.5	6535.5	5053.1	4036.8	3330.6	2893.2	2700.7	2606.9	2525.8	2487.6
32.5°	9812.0	8851.3	6786.8	4976.8	3705.9	2855.0	2459.0	2311.0	2161.5	2058.1	2062.9
35°	10798.1	9651.3	7160.6	4879.7	3317.8	2411.2	2137.7	1946.8	1806.8	1738.4	1706.6
37.5°	11728.6	10472.0	7599.5	4781.1	2883.6	2123.4	1821.2	1644.6	1536.5	1484.0	1495.1
40°	12670.2	11318.2	7978.1	4539.4	2396.9	1862.5	1507.8	1407.6	1364.7	1323.3	1328.1
42.5°	13513.1	11992.6	8254.8	4270.6	2056.6	1563.5	1285.1	1307.4	1332.9	1309.0	1302.6
45°	14391.1	12781.5	8498.2	3812.5	1771.8	1328.1	1229.5	1291.5	1347.2	1344.0	1336.0
47.5°	15272.3	13513.1	8522.1	3204.9	1512.6	1248.6	1227.9	1274.0	1347.2	1359.9	1350.4
50°	16180.5	14279.8	8382.1	2489.2	1402.8	1258.1	1229.5	1237.4	1318.5	1332.9	1328.1
52.5°	17187.3	15108.4	8036.9	1892.7	1359.9	1274.0	1234.3	1223.1	1269.2	1294.7	1299.5
55°	18112.9	15766.9	7389.6	1671.6	1328.1	1275.6	1269.2	1232.7	1234.3	1221.5	1253.3
57.5°	18890.7	16395.2	6654.8	1550.8	1299.5	1261.3	1285.1	1216.8	1197.7	1145.2	1132.5
60°	19695.5	16905.7	5620.9	1468.1	1266.1	1243.8	1245.4	1189.7	1142.0	1065.7	1043.4
62.5°	20266.5	17176.1	4617.3	1371.0	1219.9	1216.8	1192.9	1151.5	1108.6	1041.8	1032.3
65°	20431.9	17033.0	3546.9	1269.2	1159.5	1172.2	1129.3	1072.0	893.9	811.2	811.2
67.5°	19884.8	16151.8	2626.0	1151.5	1086.3	1111.8	1027.5	844.6	752.3	703.0	711.0
70°	18384.9	14728.3	1709.8	979.8	981.4	1002.0	847.8	760.3	672.8	642.6	658.5
72.5°	16380.9	12617.7	1127.7	780.9	827.1	792.1	774.6	699.8	621.9	586.9	598.0
75°	13498.8	9963.1	782.5	613.9	536.0	676.0	688.7	588.5	528.1	641.0	666.4
77.5°	10664.5	6925.2	645.8	429.4	396.0	499.4	551.9	545.6	873.2	1025.9	1014.8
80°	6341.4	3987.5	526.5	297.4	279.9	321.3	434.2	626.7	978.2	734.8	699.8
82.5°	2875.7	1813.2	279.9	155.9	182.9	213.1	324.5	779.4	641.0	470.8	443.8
85°	1122.9	591.7	111.3	68.4	63.6	79.5	147.9	375.4	257.7	208.4	208.4
87.5°	144.7	106.6	31.8	23.9	20.7	25.4	47.7	208.4	120.9	101.8	98.6
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)